TSR040 Remarks Listing For Leaksite = 5586
Report Date: January 23, 1996

L#=5586

Leaksite ID# 5586	Tank Facility ID 4084
TOTAL PETROLEUM	BOB DALY
Site Name	Responsible Party

LEAKSITE REMARKS

pull/4 & 6 thou gas usts/used oil and fo/clay soil/200-250ppm/ no gw impact/depth to gw=?/40 cu yds excav.

8/28/92 Phone conv.w/ Al Burke; 320 cu yds removed/past borings went down to 50 ft. and no qw level was stated/Al had some vapor levels between 50-60ppm. I okayed Al to leave in place if he could find accurate gw depth (i.e. boring or published).

8/31/92 Phone conv.w/ Al Burke; island =42ppm sidewalls. Al was concern ed about taking too many samples. I told him to follow guidance and quoted him parts of #6 IV.4.

9/09/92 Standard letter sent.

10/21/92 Rec. thermal treatment appl. via fax after phone call w/ Teri.

10/22/92 Phone conv.w/ TeriHovanec,KelleherConst.;I okayed moving non-used oil pile to treatment plant. After conv.w/BobD. I told Teri it would be a few weeks before thermal treatment approval could be given. Teri=890-4846.

10/23/92 Phone conv.w/Al Burke,Kelleher; Al will have RP send letter stating that there are no herb/pest in tank.

11/09/92 Rec. letter from Robert Daly, site RP; letter states no pest. or herb.

11/17/92 Bob D. is reviewing thermal app. and passing through AQ & HW.

12/03/92 Rec'd request to go through TS Property Transfer Techn. Assist Program. -KAS

12/09/92 Rec'd agreement to proceed through the TS PTTA program. -KS

12/09/92 Thermal treatment letter sent.

12/15/92 Contacted Al Burke(Kelleher) to ask for more information that was not included in the excavation report specifically: 1. site map with sampling location, 2. maximum [ ] of contam. soil removed, 3. page 5,D, were the samples analyzed for f.o. or gasoline?. He said he would get the information to me as soon as possible and I told him that I would check on the soil treatment approval letter from air quality to treat the waste oil contaminated soil. -KAS (his fax number is 890-5521)

12/15/92 Contacted Al Burke and told him that the therm. treat app. is with Air Quality. -KAS

12/23/92 Contacted Al Burke (Kelleher) to request a map with the PID sampling locations indicated on it. Also told him that we have not received the approval from Air Quality at this time. -KAS

12/23/92 Rec'd map with PID reading locations indicated on it. -KAS

12/28/92 The RP was issued a letter by Bob Dullinger approving the soil contaminated with used oil contaminants to be theramally

treated. -KAS
12/30/92 Contacted Terry Hovanec (Kelleher) and told her to contact me once the soil is removed from the site and brought to the thermal treatment facility. At that time, I can issue a conditional closure letter (per approval from mgt. - can issue a cond. clos. once the soil is received by the thrm trt facil.) -KAS
01/08/93 Contacted Terry / Al (Kelleher) and asked if the soil had been transported to the thermal treatment facility...they said it has been and the number is MN0604. The soil went to Clean Soil Inc. and to contact Bruce Rivers for confirmation. KAS
01/08/93 Contacted Bruce Rivers at Clean Soils, Inc. They have not recd the soil yet because it was frozen. He will contact me when they do. KAS
01/11/93:Bruce Rivers contacted me and said that the soil was delivered and treated at Clean Soils, Inc. on 1/7 and 1/8. Bruce works for Clean Soils, Inc. -KAS
01/12/93:Issued a condition file closure for leaksite. All of the soil has been rec'd by Clean Soils. See above. -KAS
02/10/93:Rec'd post burn analysis from Clean Soils. KAS
02/16/93:Rec'd post burn analysis from Kelleher. -KAS
02/17/93:Talked with JW and confirmed the data that Kelleher sent to us. The MPCA rec'd the post burn analysis on 2/10/93 from Clean Soils. The site can now be closed because the post burn analysis is below all action levels. KAS
02/17/93: Closed site. KAS
02/22/93: NOTE TO FILE: At this site, two batches of soil was thermally treated. First, approximately 335 cubic yards were treated, later, 35 cubic yeards of waste oil contaminated soil was treated. For a total of 370 cubic yards. KAS
04/30/93: Issued a bill for the time spent by the TS Property Transfer Technical Assistance staff to review the file. KAS
07/23/93: Reviewed petrofund application. No violations were noted. KAS
07/27/93: CSR - adequate. KAS
01/23/96 EMH- File sent to archives.

End of Remarks

MINNESOTA POLLUTION CONTROL AGENCY
TANKS AND SPILLS SECTION
PETROLEUM TANK RELEASE REPORT

Report Taken By: RHN
Date/Time Occurred:
Date/Time Reported: 8·27·92
Date/Time Discovered: 8·27·92

LEAK# 5586 | PROJECT MANAGER: RHN | USTIS # 4084

CALLER
Name: Al Bunke
Phone: 8904846
Relationship to site: Kelleher Const.

SITE
Name: Former Total Petroleum
Street: 1526 W. Co. R. B
City: Roseville Zip: 55113
County: Ramsey Region: 1

TANK OPERATOR
Name:
Street:
City: Zip:
Contact Person:
Phone:

TANK OWNER
Name: Bob Daly
Street: 1875 Plaza Drive Suite 203
City: Eagen St.: MN Zip: 55122
Contact Person:
Phone: 612 452 8250

Own tanks/product/property?
Share in profits?
Control over inventory, maintenace and tank decisions?

SITUATION
Material Released/Amount: gas

Source of Release: UST

Release Discovery: tank pull

TANK INFORMATION

Contents	Size	Age	Removed	Condition	Registered
gas	4 000				yes
gas	6 000		8·27·92	6-7 holes	
used ~~waste~~ oil					No / yes Friday
heating					No

State or Federal Excavation Contractor: Kelleher
Notification prior to removal: yes
Consultant: Kelleher

SOIL
Contaminated soil excavated: 40 cu yds. 320 cu yds.
Was it a total excavation:
Vapor readings: 200-250 ppm
Soil samples:
Borings:
Native soil type: clay
Stockpiled properly/disposal arranged: Hovan pit
Other:

WATER
Groundwater in excavation: No

Free product present:

Depth to groundwater: unknown

City water/wells private/municipal:

Surface water:

VAPORS
Sewers/buildings:

SITE INFORMATION
Description of area:

Previous release(s):

INSTRUCTION GIVEN	**CONTACTS**
Hire consultant	Local Fire/Police
Submit report	Local Officials
Staff will call	Regional Staff
Contact staff	Other

CONCLUSIONS AND OTHER RELATED INFORMATION

Minnesota Pollution Control Agency

April 30, 1993

INVOICE/REMITTANCE SLIP

PAYMENT DUE UPON RECEIPT

Mr. Robert Daly
1875 Plaza Drive #203
Eagan, Minnesota 55722

RE: Property Transfer Technical Assistance
Site: Former Total Petroleum, 1526 West County Road B, Roseville
Site ID#: LEAK00005586
Property Transfer ID#: TS-PT#0089
MPCA Invoice Number: 93-0469

This letter serves as an invoice for the time spent by the Minnesota Pollution Control Agency (MPCA) staff to provide technical assistance for the above-referenced site. The costs for providing the technical assistance you requested on December 6, 1992, are as follows:

7.5 hours at $50.00 per hour = $375.00
TOTAL = $375.00

Pursuant to Minn. Stat. § 115C.03, subd. 9 (1992), the person whom requests assistance from the MPCA Commissioner shall reimburse the MPCA for the cost associated with providing assistance.

If you have any questions or comments in reference to this invoice, please call me at 297-8582, TDD 297-5353. We look forward to being of continued service to you.

Kathryn Serier
Project Leader
Tanks and Spills Section
Hazardous Waste Division

Enclosure

Please remove this portion and return it with your payment.

Mr. Robert Daly
1875 Plaza Drive #203
Eagan, Minnesota 55722

Invoice number: 93-0469
Total Amount Due: $375.00
Amount Enclosed: $

Send To: Minnesota Pollution Control Agency
Ms. Sandra Hager, Fiscal Services
520 Lafayette Road, St. Paul, Minnesota 55155

Please make your check payable to: MINNESOTA POLLUTION CONTROL AGENCY
Please include the invoice number on the check.

Minnesota Pollution Control Agency

February 17, 1993

Mr. Bob Daly
1875 Plaza Drive Suite 203
Eagan, Minnesota 55122

Dear Mr. Daly:

RE: Petroleum Tank Release File Closure
Site: Former Total Petroleum, 1526 W. County Road B
Site ID#: LEAK#00005586
Property Transfer ID#: TS-PT#0089

On January 12, 1993, Minnesota Pollution Control Agency (MPCA) Tanks and Spills Section (TS) Property Transfer Technical Assistance (PTTA) staff issued a conditional petroleum tank release file closure letter for the property referenced above (Site). The conditional closure letter specified that post burn soil analysis was required from Clean Soils, Inc. in order to issue a file closure letter for this Site.

The MPCA TS PTTA staff has received and reviewed the post burn chemical analysis results for the soils processed by Clean Soils, Inc. The post burn analysis results were received by MPCA TS PTTA staff on February 10, 1993. Based upon these results, the MPCA TS PTTA staff will not be requiring any additional investigative or corrective actions at this time, and the file pertinent to the petroleum release will be closed. Even though closure status has been assigned to the petroleum release, the MPCA reserves the right to reopen this file and require additional work if in the future more work is determined necessary to address the petroleum contamination at the Site. This letter does not release any party from liability for the petroleum contamination under Minn. Stat. 115C. (1990) and all other applicable state or federal laws.

Because you performed the requested work, the state may reimburse you for a major portion of your costs. The Petroleum Tank Release Cleanup Act establishes a fund which in certain circumstances provides partial reimbursement for petroleum tank release cleanup costs. This fund is administered by the Petro Board. More specific eligibility rules are available from the Petro Board and can be reached at 612/297-1119 or 612/297-4203.

Since you requested assistance from the MPCA TS PTTA staff, you will be billed for the time spent by staff to review this project. This is in accordance with Minn. Stat. § 115C.03, subd. 9 (1990) in which the person requesting assistance from the MPCA shall pay the agency under this program. Reimbursements collected will be deposited in the Minnesota Environmental Fund.

If you have any questions regarding this letter, please feel free to contact me at 612/297-8579.

Sincerely,

Kathryn Serier

Kathryn Serier
Pollution Control Specialist Senior
Tanks and Spills Section
Hazardous Waste Division

KS:nh

cc: Al Burke, Kelleher Environmental Inc., Burnsville
Therese Hovanec, Kelleher Environmental Inc., Burnsville
Larry Carlson, Ramsey County, Roseville
Lee Holden, Ramsey County, Roseville
Steven Sarkozy, City Manager, Roseville
Joel Hewitt, Fire Chief, Roseville
Steve Gatlin, Public Works Director, Roseville

Kelleher

Kelleher Environmental, Inc.
12252 Nicollet Avenue South
Burnsville, MN 55337
(612) 890-4846
800-553-2648
Fax: (612) 890-5521

FAX TRANSMITTAL

FAX NO. (612) 890-5521

DATE: February 15, 1993

COMPANY: MPCA

ATTN: Catherine Serier

FAX NO. 297-8676

FROM: Teri Hovanec

NO. OF PAGES INCLUDING THIS PAGE: 5

SUBJECT: Post burn analysis

COMMENTS:
I am forwarding the post burn analysis for the soil from the former Total Petroleum (Leak # 5586) so we can close the site! If possible, we would like the closure letter ASAP, as the client we like to close on this property this week! Thank you for your prompt attention to this matter. Teri H.

ORIGINAL TO FOLLOW BY MAIL:

YES _____ NO X

CleanSoils
SOIL REMEDIATION SPECIALISTS

CleanSoils Inc.
84 2nd Avenue S.E.
New Brighton, MN 55112
Office: (612) 639-8811
FAX: (612) 639-8813

January 4, 1993

Mr. Alan Burke
Kelleher Environemntal, Inc.
12252 Nicollet Avenue South
Burnsville, MN 55337

Dear Burke:

RE: Final Report on Soil Treatment and Notification of Post-Burn Sampling Results

Site: Rosevill Total Mart
MPCA Site ID #:
CleanSoils Project #: MN0604

CleanSoils has successfully completed the thermal treatment of petroleum contaminated soil from the above referenced site. The treated soil meets all MPCA requirements. Attached please find a copy of independent post-burn soil analyses for BTEX and TPH. Below is other information regarding the soil treated.

Quantity of Soil: 404.19 tons
Completion Date: November 16, 1992
Post-Burn Samples: MN0604-1
Final Disposition of Soil: Qualified Fill Project

If you should have any questions regarding this project, please contact me at (612) 639-8811.

Sincerely,

David H. Kress
Division Manager

attachments

pc: File
Bob Dullinger, MPCA
Consultant

SERCO Laboratories

1931 West County Road C2. St. Paul. Minnesota 55113 Phone (612) 636-7173 FAX (612) 636-7178

LABORATORY ANALYSIS REPORT NO: 24214 PAGE 1
12/02/92

CleanSoils, Inc.
84 2nd Ave. S.E.
New Brighton, MN 55112

DATE COLLECTED: 11/16/92
DATE RECEIVED: 11/17/92
COLLECTED BY : CLIENT
DELIVERED BY : CLIENT
SAMPLE TYPE : SOIL

Attn: David Kress

SERCO SAMPLE NO:		115272
SAMPLE DESCRIPTION:		MN0604-1 11/16/92
ANALYSIS:		
Diesel Range Organics C10-C28, dry weight, mg/kg		-
Analytical Method for MOD DRO		-
Date of Extraction for MOD DRO		-
Date of Analysis for MOD DRO		-
Benzene, dry weight, mg/kg		<0.05
Ethylbenzene, dry weight, mg/kg		<0.05
Methyl tertiary butyl ether, dry weight mg/kg		<0.5
Toluene, dry weight, mg/kg		<0.05
Total Xylene, dry weight, mg/kg		0.18
Analytical Method for BETX/MTBE		8020
Date of analysis for BETX/MTBE		11/23/92
Gasoline Range Organics, C6-C10, dry weight, mg/kg		<10
Analytical Method for MOD GRO		MOD GRO
Date of Analysis for MOD GRO		11/23/92
Total Solids, percent		100
Notes regarding MOD-GRO analysis		A
Benzene, ug/L	-	-
Ethylbenzene, ug/L	-	-
Methyl tertiary butyl ether, ug/L	-	-
Toluene, ug/L	-	-
Total Xylene, ug/L	-	-
Gasoline Range Organics, C6-C10, ug/L	-	-

< means "not detected at this level". 1 mg = 1000 ug.

MEMBER

CleanSoils

SOIL REMEDIATION SPECIALISTS

CleanSoils Inc.
84 2nd Avenue S.E.
New Brighton, MN 55112
Office: (612) 639-8811
FAX: (612) 639-8813

February 4, 1993

Mr. Allan Burke
Kelleher Environmental, Inc.
Burnsville, MN 55337

Dear Mr. Burke:

RE: Final Report on Soil Treatment and Notification of Post-Burn Sampling Results

Site: (former) Total Petroleum, Roseville, MN
MPCA Leak ID#: 5586
CleanSoils Project #: MN604

CleanSoils has successfully completed the thermal treatment of petroleum contaminated soil from the above referenced site. The treated soil meets all MPCA requirements. Attached please find a copy of independent post-burn soil analyses for BTEX, GRO and/or DRO. Below is other information regarding the treated soil.

Quantity of Soil: 48.75 tons (Jan. 8, 1993 delivery)
Completion Date: January 18, 1993
Post-Burn Samples: MN604-1
Final Disposition of Soil: Qualified Fill Project

If you should have any questions regarding this project, please contact me at (612) 639-8811.

Sincerely,

David H. Kress
Division Manager

attachments

pc: File
Bob Dullinger, MPCA
Consultant

SERCO Laboratories

1931 West County Road C2, St. Paul, Minnesota 55113 Phone (612) 636-7173 FAX (612) 636-7178

LABORATORY ANALYSIS REPORT NO: 30229 PAGE 1
01/28/93

CleanSoils, Inc.
84 2nd Ave. S.E.
New Brighton, MN 55112

DATE COLLECTED: 01/18/93
DATE RECEIVED: 01/21/93
COLLECTED BY : CLIENT
DELIVERED BY : CLIENT
SAMPLE TYPE : SOIL

Attn: David Kress

SERCO SAMPLE NO: 5843

SAMPLE DESCRIPTION: MN0604-1
1/18

ANALYSIS:	
Diesel Range Organics C10-C28, dry weight, mg/kg	<10
Analytical Method for MOD DRO	MOD GRO
Date of Extraction for MOD DRO	01/22/93
Date of Analysis for MOD DRO	01/26/93
Benzene, dry weight, mg/kg	<0.005
Ethylbenzene, dry weight, mg/kg	<0.005
Methyl tertiary butyl ether, dry weight, mg/kg	<0.05
Toluene, dry weight, mg/kg	<0.005
Total Xylene, dry weight, mg/kg	<0.005
Analytical Method for BETX/MTBE	8020
Date of analysis for BETX/MTBE	01/22/93
Total Solids, percent	100

< means "not detected at this level". 1 mg = 1000 ug.

MEMBER

R-97%

Minnesota Pollution Control Agency

January 12, 1993

Mr. Bob Daly
1875 Plaza Drive Suite 203
Eagan, Minnesota 55122

Dear Mr. Daly:

RE: Conditional File Closure
Site: Former Total Petroleum
Site ID#: LEAK#00005586
Property Transfer ID#: TS-PT#0089

The Minnesota Pollution Control Agency (MPCA) Tanks and Spills (TS) Property Transfer Technical Assistance (PTTA) staff has reviewed the report titled, "Tank Removal Project", dated December 2, 1992.

Based upon the information obtained during the investigation, MPCA staff has determined that the cleanup performed in response to the petroleum tank release at the site referenced above (Site) has adequately addressed the petroleum contamination, and therefore, additional remedial investigation or corrective action will not be required. However, post burn analysis results from the thermal treatment facility, Clean Soils, Inc., are still required. The file regarding the identified petroleum contamination at the Site will be closed when the MPCA receives the results of the post burn analysis from Clean Soils, Inc. This letter applies only to the petroleum release identified at the Site.

On August 26, 1992, a petroleum tank release was reported to the MPCA. Since the discovery of the release, you have conducted the following investigative and corrective actions in response to the petroleum release:

1. On August 26, 1992, one 6,000-gallon gasoline petroleum storage tank, one 4,000-gallon gasoline petroleum storage tank, one 550-gallon fuel oil tank and one 550-gallon waste oil tank were removed from the above-referenced Site. The release is suspected to be from line leaks and holes in the tanks. The native soil type encountered was clay.

2. During the excavation, soil was screened and removed based on appearance, odor and soil vapor headspace analysis with a organic vapor meter (OVM). Approximately 370 cubic yards of contaminated soil with OVM readings as high as 250 parts per million (ppm) were removed from the tank basins and the pump islands. Following the excavation, field screening indicated that soil with OVM readings as high as 14.3 ppm remains on the excavation bottom and sidewalls.

3. A total of 8 soil samples were collected from the bottom of the excavation and beneath the pump islands. The samples were chemically analyzed for benzene, ethyl benzene toluene and xylenes, methyl tertiary butyl ether, lead, and total petroleum hydrocarbons (TPH) as gasoline and fuel oil. Maximum concentrations detected were 10 ppm TPH as fuel oil, 2.9 ppm TPH as gasoline and 31 ppm lead.

4. Ground water was not encountered during the excavation.

5. A total of 335 cubic yards of soil were removed from the Site and thermally treated at Clean Soils, Inc. during the month of October, 1992. Also a total of 35 cubic yards of soil contaminated with waste oil were removed from the Site on January 7, 1993, and brought to Clean Soils, Inc. Approval was granted by the MPCA to thermally treat the petroleum contaminated soil containing used oil contaminants on December 28, 1992.

6. A report titled, "Subsurface Investigation", dated April, 1988, was included with the excavation report that was completed by Warzyn Engineering, Inc. Four soil borings were conducted to a depth of 50 feet below land surface. Soil was screened for organic vapors using a photoionization detector (PID). PID readings did not exceed 0.4 ppm. Ground water apparently was not encountered.

Based on the available information, we concur with the conclusions of Kelleher Environmental, Inc. that no further work is required at the Site. Therefore, MPCA TS staff does not intend to require any more investigation or cleanup work in response to the petroleum release. Even though closure status has been assigned to the petroleum release, the MPCA TS staff reserves the right to reopen this file and require additional work if in the future more work is determined necessary to address the petroleum contamination at the site. This letter does not release any party from liability for the petroleum contamination under Minn. Stat. 115C. (1990), or all other applicable state or federal law.

Because you performed the requested work, the state may reimburse you for a major portion of your costs. The Petroleum Tank Release Cleanup Act establishes a fund which in certain circumstances provides partial reimbursement for petroleum tank release cleanup costs. This fund is administered by the Petro Board. More specific eligibility rules are available from the Petro Board and can be reached at 612/297-1119 or 612/297-4203.

Since you requested assistance from the MPCA TS PTTA staff, you will be billed for the time spent by staff to review this project. This is in accordance with Minn. Stat. § 115C.03, subd. 9 (1990) in which the person requesting assistance from the MPCA shall pay the agency under this program. Reimbursements collected will be deposited in the Minnesota Environmental Fund.

If you have any questions regarding this letter, please feel free to contact me at 612/297-8579 or David Tetley, MPCA staff hydrogeologist, at 612/297-8597.

Sincerely,

Kathryn Serier

Kathryn Serier
Pollution Control Specialist Senior
Tanks and Spills Section
Hazardous Waste Division

KS:nh

cc: Al Burke, Kelleher Environmental, Inc., Burnsville
Larry Carlson, Ramsey County, Roseville
Lee Holden, Ramsey County, Roseville
Steven Sarkozy, City Manager, Roseville
Joel Hewitt, Fire Chief, Roseville
Therese Hovanec, Kelleher Environmental, Inc.

Kelleher

Kelleher Environmental, Inc.
12252 Nicollet Avenue South
Burnsville, MN 55337
(612) 890-4846
800-553-2648
Fax: (612) 890-5521

FAX TRANSMITTAL

FAX NO. (612) 890-5521

DATE: 12-30-92

COMPANY: MPCA

ATTN: Catherine Serier

FAX NO. 297-8676

FROM: Teri Hovarc

NO. OF PAGES INCLUDING THIS PAGE: 2

SUBJECT: Soil disposal - Roseville site.

COMMENTS: Finally! A copy of the permit approval. Please let me know if you desire additional information. Thanks-
Teri H.

ORIGINAL TO FOLLOW BY MAIL:

YES _____ NO ✓

Celebration 25/20

Minnesota Pollution Control Agency

Celebrating our 25th anniversary and the 20th anniversary of the Clean Water Act

December 28, 1992

Mr. Bob Daly
1526 West County Road B
Roseville, Minnesota 55113

Dear Mr. Daly:

RE: Approval of Thermal Treatment Application for Petroleum Contaminated Soils Containing Used Oil Contaminants
Site: (Former) Total Petroleum
Site ID#: LEAK00005586

The application dated October 21, 1992, to thermally treat approximately 63 cubic yards of contaminated soil at CleanSoils, Inc. from the above-referenced leaksite is hereby approved by staff of the Minnesota Pollution Control Agency (MPCA).

This approval is based upon the MPCA Hazardous Waste staff's evaluation of analytical information provided by Pace Laboratories. Air Quality and Hazardous Waste staff have concluded that these levels of contaminants can be thermally treated.

We believe these actions will provide adequate treatment of the contaminated soil. The MPCA reserves the right to require additional work if this determined to be necessary to protect public health and the environment. This letter does not release any party from liability of this contamination. Please contact me at 612/297-8608 if you have any further questions.

Sincerely,

Bob Dullinger, Supervisor
Cleanup Unit II
Tanks and Spills Section
Hazardous Waste Division

BD:mh

cc: [redacted]lleher Environmental, Inc.
Bruce Rivers, CleanSoils, Inc.

Richard Nugent

Minnesota Pollution Control Agency

Celebrating our 25th anniversary and the 20th anniversary of the Clean Water Act

December 28, 1992

Mr. Bob Daly
1526 West County Road B
Roseville, Minnesota 55113

Dear Mr. Daly:

RE: Approval of Thermal Treatment Application for Petroleum Contaminated Soils Containing Used Oil Contaminants
Site: (Former) Total Petroleum
Site ID#: LEAK00005586

The application dated October 21, 1992, to thermally treat approximately 63 cubic yards of contaminated soil at CleanSoils, Inc. from the above-referenced leaksite is hereby approved by staff of the Minnesota Pollution Control Agency (MPCA).

This approval is based upon the MPCA Hazardous Waste staff's evaluation of analytical information provided by Pace Laboratories. Air Quality and Hazardous Waste staff have concluded that these levels of contaminants can be thermally treated.

We believe these actions will provide adequate treatment of the contaminated soil. The MPCA reserves the right to require additional work if this determined to be necessary to protect public health and the environment. This letter does not release any party from liability of this contamination. Please contact me at 612/297-8608 if you have any further questions.

Sincerely,

Bob Dullinger, Supervisor
Cleanup Unit II
Tanks and Spills Section
Hazardous Waste Division

BD:mh

cc: Alan Burke, Kelleher Environmental, Inc.
Bruce Rivers, CleanSoils, Inc.

RHN

Minnesota Pollution Control Agency

Celebrating our 25th anniversary and the 20th anniversary of the Clean Water Act

December 9, 1992

Mr. Bob Daly
1875 Plaza Drive
Suite 203
Eagan, Minnesota 55122

Dear Mr. Daly:

RE: Contaminated Soil Corrective Action Plan Approval
Site: Total Petroleum, Roseville
Site ID#: LEAK 00005586

11/13/92

The Minnesota Pollution Control Agency (MPCA) has received the monthly log from the thermal treatment facility that has accepted the petroleum contaminated soil from the above-referenced site. This submittal, along with the "Application to Treat Petroleum Contaminated Soil", if signed by the responsible person and the authorized thermal treatment unit representative, constitutes an acceptable form of a soil corrective action plan and is hereby approved by the MPCA staff.

This approval qualifies you under Minn. Stat. 115c.09, subd. 2(a)(1) (Supp. 1991) to be eligible for Petrofund reimbursement of eligible cleanup costs incurred up to the date of this letter. Application for reimbursement must be made directly to the Petrofund. The Petro Board makes the final decision on reimbursement. Reimbursement decisions are based on factors such as the adequacy of cleanup, reasonableness of cost, compliance with notification laws and cooperativeness with the MPCA.

Please note that this approval applies only to the process of thermal treatment of the petroleum contaminated soil and does not constitute MPCA staff's approval of the volume of contaminated soil excavated at the above-referenced site.

If you have any questions, please contact me.

Sincerely,

for Jon C Winter

for Bob Dullinger, Supervisor
Cleanup Unit II
Tanks and Spills Section
Hazardous Waste Division

BD:jw

TTP

TS-P.T0089

REQUEST FOR TECHNICAL ASSISTANCE AND AUTHORIZATION TO BILL COSTS TO REQUESTING PARTY

I hereby request the Minnesota Pollution Control Agency (MPCA) Tanks and Spills Property Transfer Technical Assistance staff to provide services in the form of analyzing reports which I or my agent submit to the MPCA for review regarding the site located at 1526 County Road E, St. Paul. I understand that I will be billed for these services at the rate of $50.00 per hour and that I am required by Minn. Stat. § 115C.03, subd. 9 (1990) to reimburse the MPCA for the agency's costs, as determined by the MPCA Commissioner. I further understand that legal or administrative action may be initiated against me by the State of Minnesota to collect these costs.

NAME: Robert E. Daly

TITLE: Owner

BUSINESS NAME: Robert E. Daly

ADDRESS (for billing purposes): 1875 Plaza Drive #203

CITY: Eagan MN 55122

DAYTIME TELEPHONE: (612) 452-8250

SIGNATURE: [signature] DATE: 12-9-92

PRINTED NAME: Robert E. Daly

PROPERTY OWNER (if different than above):

BUSINESS NAME:

ADDRESS:

TELEPHONE:

This form may be sent via facsimile transmittal at 612/297-8676.

Minnesota Pollution Control Agency

Celebrating our 25th anniversary and the 20th anniversary of the Clean Water Act

December 7, 1992

Mr. Bob Daly
c/o Therese M. Hovanec
Kelleher Environmental, Inc.
12252 Nicollet Avenue South
Burnsville, Minnesota 55337

Dear Mr. Daly:

RE: Technical Assistance
Site: Former Total Petroleum Site, 1526 County Road B, St. Paul
Site ID#: LEAK# 00005586

This letter serves to confirm receipt on December 3, 1992, by the Minnesota Pollution Control Agency (MPCA) Tanks and Spills Section (TS) Property Transfer Technical Assistance (PTTA) staff of the report titled "Tank Removal Project, Former Total Petroleum", dated December 2, 1992.

In accordance with Minn. Stat. § 115C.03, subd. 9 (1990), a person who requests technical assistance from the MPCA staff must reimburse the MPCA for costs incurred on his or her behalf by the MPCA. Reimbursements collected will be deposited in the Minnesota Environmental Fund.

Since the MPCA is required under Minnesota law to collect its costs for technical assistance which you requested, I have enclosed the necessary form below for you to complete and sign. If signed and returned to the MPCA, this document constitutes a formal request that the MPCA staff provide technical assistance services to you and that you understand that you will be billed for the MPCA staff's time. The cost associated with providing technical assistance is $50.00 per hour and these services will be billed on a monthly basis.

Upon receipt of a formal request, the MPCA TS PTTA staff will review the report submitted to date and return comments to you.

If you have any questions about the services offered by the MPCA TS PTTA Program, please contact me at 612/297-8579.

Sincerely,

Kathryn Serier
Pollution Control Specialist Senior
Tanks and Spills Section
Hazardous Waste Division

KS:nh

Enclosure

REQUEST FOR TECHNICAL ASSISTANCE
AND AUTHORIZATION TO BILL COSTS TO REQUESTING PARTY

I hereby request the Minnesota Pollution Control Agency (MPCA) Tanks and Spills Property Transfer Technical Assistance staff to provide services in the form of analyzing reports which I or my agent submit to the MPCA for review regarding the site located at 1526 County Road B, St. Paul. I understand that I will be billed for these services at the rate of $50.00 per hour and that I am required by Minn. Stat. § 115C. 03, subd. 9 (1990) to reimburse the MPCA for the agency's costs, as determined by the MPCA Commissioner. I further understand that legal or administrative action may be initiated against me by the State of Minnesota to collect these costs.

NAME: _____

TITLE: _____

BUSINESS NAME: _____

ADDRESS (for billing purposes): _____

CITY: _____

DAYTIME TELEPHONE: (____) _____

SIGNATURE: _____ DATE: _____

PRINTED NAME: _____

PROPERTY OWNER (if different than above): _____

BUSINESS NAME: _____

ADDRESS: _____

TELEPHONE: _____

This form may be sent via facsimile transmittal at 612/297-8676.

Kelleher

Kelleher Environmental, Inc.
12252 Nicollet Avenue South
Burnsville, MN 55337
(612) 890-4846
800-553-2648
Fax: (612) 890-5521

December 2, 1992

Ms Catherine Serier
Minnesota Pollution Control Agency
Hazardous Waste Division/Property Transfer Section
520 Lafayette Road
St Paul, MN 55155

- Bob Dullinger

Subj: Former Total Petroleum site
Roseville, Minnesota
MPCA Leak #00005586

Dear Ms Seracki:

The purpose of this letter is to request a review of the enclosed report by the Property Transfer Section of the Minnesota Pollution Control Agency. The enclosed report addresses the excavation of the above referenced site.

A permit application for disposal of the remaining 45 cu yds of waste oil contaminated soil has been forwarded to the MPCA for review. According to Mr Bob Dullinger, the application has twice been "lost" in the MPCA approval process, but has been "found" and review should be completed by December 11, 1992.

Please forward the required approval letter for acceptance via facsimile transmittal at 612/890-5521. Should you have any questions concerning this letter, or if we may be of additional assistance, please feel free to contact us.

Respectfully,
KELLEHER ENVIRONMENTAL, INC

Therese M Hovanec

Therese M Hovanec
Staff Engineer

APPLICATION TO TREAT PETROLEUM CONTAMINATED SOIL

MINNESOTA POLLUTION CONTROL AGENCY
APPLICATION TO THERMALLY TREAT PETROLEUM CONTAMINATED SOIL
May 1992

I. Minnesota Pollution Control Agency (MPCA) Site ID Number: LEAK#00005586

II. MPCA Project Manager: ~~Richard Neugent~~ KAS

III. Source of Soil:

Facility Name: (Former) Total Petroleum
Street Address: 1526 West City Rd B
City, State, Zip: Roseville, MN

Contact Name: Mr Bob Daly
Telephone: 612/452-8250

IV. Contamination Details:

Weight of Soil (tons): (One cubic yard of soil is approximately equivalent to 1.4 tons.) _____

Type Petroleum Contamination: (Gasoline) diesel fuel, No. 1 fuel oil,

(circle one)

No. 2 fuel oil, kerosene, used oil, (hydraulic fluid, cutting oil, motor oil, quench oil).

Contaminant Concentration (parts per million)*

Benzene	ND	~~N.D~~	—	—	—
Toluene	ND	~~4.0~~	—	—	—
Ethyl Benzene	ND	~~1.5~~	—	—	—
Xylene	1200	132	—	—	—
Total Lead	5.9	~~3L~~	—	—	—
Total Hydrocarbons as Fuel Oil or Gasoline	2500	3200	—	—	—

Soil Type (sand, silt, clay, etc.) Clay

*Note: See Tanks and Spills Section document "Soil and Ground Water Analysis at Petroleum Release Sites" (Guidance Document 11) for additional analysis that may be necessary.

V. Thermal Treatment Unit

Name: CleanSoils Inc.
Address: 398 E. Richmond Street
(if portable, where will plant be located)

City, State, Zip: South St. Paul, MN 55075

Plant Number or Model: Thermal Desorber
(If portable, separation distance in feet from nearest residence(s): 750.)

Contact Name: David Kress Title: Division Manager
Telephone: (612) 639-8811 Site Telephone: (612) 552-1038
Air Quality Permit Number: 2307C-92-OT-1

10-29-92
Date

David H. Kress
Signature of Authorized Thermal Treatment Unit Representative Accepting Soil

VI. Date treatment will be completed: 12-29-92

VII. Individual Submitting Request:

Company Name: Kelleher Environmental
Address: 12252 Nicollet Ave So.
City, State, Zip: Burnsville, MN 55337

Contact Name: Therese M Hovanec
Telephone: (612) 890-4846

Signature: Therese M Hovanec

Date: October 28, 1992

This application, if complete and confirmed by information submitted in the monthly log by the thermal treatment facility, constitutes an acceptable form of a soil corrective action plan. The signatures of the individual submitting the request and the authorized thermal treatment unit representative constitute certification that the concentration and the type of contamination in the contaminated soil falls within the criteria established by the MPCA's guidance document "Thermal Treatment of Petroleum Contaminated Soil" (Guidance Document 21) and that the thermal treatment facility is operating in compliance with its Air Quality emission permit.

Mail to: Project Manager
Minnesota Pollution Control Agency
Hazardous Waste Division
Tanks and Spills Section
520 Lafayette Road
St. Paul, Minnesota 55155-4194
Fax No.: 612/297-8676

MN0604

Mr. Al Burke
Page 3

September 24, 1992
PACE Project Number: 920902531

Client Reference: Total Petroleum

Parameter	Units	MDL			
PACE Sample Number:			10 0255874	10 0255882	10 0255939
Date Collected:			08/31/92	08/31/92	08/31/92
Date Received:			09/01/92	09/01/92	09/02/92
Client Sample ID:			SP 1	SP 2	SPO 1230
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead	mg/kg	2.5	5.8	31	-
Mercury	mg/kg	0.02	-	-	ND
RCRA TOXICITY METALS					
Arsenic	mg/kg	8.0	-	-	ND
Barium	mg/kg	0.5	-	-	75
Cadmium	mg/kg	0.5	-	-	0.6
Chromium	mg/kg	0.5	-	-	13
Lead	mg/kg	2.5	-	-	77
Selenium	mg/kg	4.0	-	-	ND
Silver	mg/kg	0.5	-	-	ND
ORGANIC ANALYSIS					
VOLATILE PETROLEUM RELATED COMPOUNDS					
Date Analyzed			E 9/12/92	E 9/12/92	-
Benzene	mg/kg	1.0	-	ND	-
Benzene	mg/kg	2.0	ND	-	-
Toluene	mg/kg	1.0	-	4.0	-
Toluene	mg/kg	2.0	ND	-	-
Ethyl benzene	mg/kg	1.0	-	7.5	-
Ethyl benzene	mg/kg	2.0	ND	-	-
Xylene	mg/kg	2.0	-	130	-
Xylene	mg/kg	4.0	1200	-	-
Total Hydrocarbons as gasoline	mg/kg	10	-	3200	-
Total Hydrocarbons as gasoline	mg/kg	20	2500	-	-
Methyl tert-butyl ether	mg/kg	4.0	-	ND	-
Methyl tert-butyl ether	mg/kg	8.0	ND	-	-
Fluorobenzene (Surrogate)	%		109	106	-
MDH VOLATILE ORGANICS - 465D SOIL					HB
Date Analyzed			-	-	L 09/09/92
Dichlorodifluoromethane	ug/kg	190	-	-	ND

Kelleher

Kelleher Environmental, Inc.
12252 Nicollet Avenue South
Burnsville, MN 55337
(612) 890-4846
800-553-2648
Fax: (612) 890-5521

FAX TRANSMITTAL

FAX NO. (612) 890-5521

5586

DATE: 10/21/92

COMPANY: MPCA

ATTN: Richard Newquist

FAX NO. 297-8676

FROM: Teri Hovanec 890 4846

NO. OF PAGES INCLUDING THIS PAGE: 13

SUBJECT: Total Petroleum- Application for Thermal Treatment

COMMENTS:
If you have any questions, please call. Thank you

ORIGINAL TO FOLLOW BY MAIL:

YES _____ **NO** ✓

APPLICATION TO TREAT PETROLEUM CONTAMINATED SOIL

MINNESOTA POLLUTION CONTROL AGENCY
APPLICATION TO THERMALLY TREAT PETROLEUM CONTAMINATED SOIL
May 1992

I. Minnesota Pollution Control Agency (MPCA) Site ID Number: LEAK# 00005586

II. MPCA Project Manager: Richard Newquist

III. Source of Soil:

Facility Name: (Former) Total Petroluem
Street Address: 1526 West County Road B
City, State, Zip: Roseville, Minnesota

Contact Name: Mr Bob Daly
Telephone: 612/452-8250

IV. Contamination Details:

Weight of Soil (tons): (One cubic yard of soil is approximately equivalent to 1.4 tons.) 63 cu yd

Type Petroleum Contamination: Gasoline, diesel fuel, No. 1 fuel oil, No. 2 fuel oil, kerosene, (used oil), (hydraulic fluid, cutting oil, motor oil, quench oil).

(circle one)

Contaminant Concentration (parts per million)*

	SPO				
Benzene	___	___	___	___	___
Toluene	___	___	___	___	___
Ethyl Benzene	___	___	___	___	___
Xylene	___	___	___	___	___
Total Lead	77	___	___	___	___
Total Hydrocarbons as Fuel Oil or Gasoline	180	___	___	___	___

Soil Type (sand, silt, clay, etc.) clay

*Note: See Tanks and Spills Section document "Soil and Ground Water Analysis at Petroleum Release Sites" (Guidance Document 11) for additional analysis that may be necessary.

Application to Treat Petroleum Contaminated Soil
Page 2
May 1992

V. Thermal Treatment Unit

Name: CleanSoils, Inc.
Address: 698 East Richmond
(if portable, where will plant be located)

City, State, Zip: South Saint Paul, MN

Plant Number or Model: Thermal Desorber SRU-102
(If portable, separation distance in feet from nearest residance(s): ___.)

Contact Name: David Kress Title: Division Manager
Telephone: (612) 639-8811 Site Telephone: (612) 552-1038
Air Quality Permit Number: 23078-90-OT-1

10-21-92
Date

Signature of Authorized Thermal Treatment Unit Representative Accepting Soil

VI. Date treatment will be completed: _____

VII. Individual Submitting Request:

Company Name: Kelleher Environmental, Inc
Address: 12252 Nicollet Avenue So
City, State, Zip: Burnsville, MN 55337

Contact Name: Mr Alan Burke
Telephone: (612) 890-4846

Signature: Alan V. Burke

Date: October 14, 1992

This application, if complete and confirmed by information submitted in the monthly log by the thermal treatment facility, constitutes an acceptable form of a soil corrective action plan. The signatures of the individual submitting the request and the authorized thermal treatment unit representative constitute certification that the concentration and the type of contamination in the contaminated soil falls within the criteria established by the MPCA's guidance document "Thermal Treatment of Petroleum Contaminated Soil" (Guidance Document 21) and that the thermal treatment facility is operating in compliance with its Air Quality emission permit.

Mail to: Project Manager
Minnesota Pollution Control Agency
Hazardous Waste Division
Tanks and Spills Section
520 Lafayette Road
St. Paul, Minnesota 55155-4194
Fax No.: 612/297-8676

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Kelleher Environmental Inc.
12252 Nicollet Avenue South
Burnsville, MN 55337

October 06, 1992
PACE Project Number: 92090253

Attn: Mr. Al Burke

Client Reference: Total Petroleum

Parameter	Units	MDL	10 0255815 08/28/92 09/01/92 BT 6000	10 0255823 08/28/92 09/01/92 BT 4000	10 0255831 08/28/92 09/01/92 ESW #1
PACE Sample Number:					
Date Collected:					
Date Received:					
Client Sample ID:					
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead	mg/kg	2.5	-	5.2	5.4
ORGANIC ANALYSIS					
VOLATILE PETROLEUM RELATED COMPOUNDS					
Date Analyzed			I 9/10/92	I 9/10/92	I 9/10/92
Benzene	mg/kg	0.10	ND	ND	ND
Toluene	mg/kg	0.10	ND	ND	ND
Ethyl benzene	mg/kg	0.10	ND	ND	ND
Xylene	mg/kg	0.20	ND	ND	0.21
Total Hydrocarbons as gasoline	mg/kg	1.0	ND	1.5	5.7
Methyl tert-butyl ether	mg/kg	0.40	ND	ND	ND
Fluorobenzene (Surrogate)	%		112	110	112

1710 Douglas Drive North
Minneapolis, MN 55422
TEL: 612-544-5543
FAX: 612-525-3377

PACE INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 2

October 06, 1992
PACE Project Number: 92090253

Client Reference: Total Petroleum

Parameter	Units	MDL	10 0255840 08/28/92 09/01/92 BNI	10 0255858 08/28/92 09/01/92 BSI	10 0255866 08/28/92 09/01/92 PT
PACE Sample Number:					
Date Collected:					
Date Received:					
Client Sample ID:					
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead	mg/kg	2.5	4.7	4.0	6.4
ORGANIC ANALYSIS					
VOLATILE PETROLEUM RELATED COMPOUNDS					
Date Analyzed			I 9/10/92	I 9/10/92	I 9/10/92
Benzene	mg/kg	0.10	ND	ND	ND
Toluene	mg/kg	0.10	ND	ND	ND
Ethyl benzene	mg/kg	0.10	ND	ND	ND
Xylene	mg/kg	0.20	ND	ND	ND
Total Hydrocarbons as gasoline	mg/kg	1.0	ND	2.9	ND
Methyl tert-butyl ether	mg/kg	0.40	ND	ND	ND
Fluorobenzene (Surrogate)	%		111	109	114

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 3

October 06, 1992
PACE Project Number: 92090253

Client Reference: Total Petroleum

Parameter	Units	MDL	10 0255874 08/31/92 09/01/92 SP 1	10 0255882 08/31/92 09/01/92 SP 2	10 0255939 08/31/92 09/02/92 SPO 1230
PACE Sample Number:					
Date Collected:					
Date Received:					
Client Sample ID:					
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead	mg/kg	2.5	5.8	31	-
Mercury	mg/kg	0.02	-	-	ND
RCRA TOXICITY METALS					
Arsenic	mg/kg	8.0	-	-	ND
Barium	mg/kg	0.5	-	-	75
Cadmium	mg/kg	0.5	-	-	0.6
Chromium	mg/kg	0.5	-	-	13
Lead	mg/kg	2.5	-	-	77
Selenium	mg/kg	4.0	-	-	ND
Silver	mg/kg	0.5	-	-	ND
ORGANIC ANALYSIS					
VOLATILE PETROLEUM RELATED COMPOUNDS					
Date Analyzed			E 9/12/92	E 9/12/92	-
Benzene	mg/kg	1.0	-	ND	-
Benzene	mg/kg	2.0	ND	-	-
Toluene	mg/kg	1.0	-	4.0	-
Toluene	mg/kg	2.0	ND	-	-
Ethyl benzene	mg/kg	1.0	-	7.5	-
Ethyl benzene	mg/kg	2.0	ND	-	-
Xylene	mg/kg	2.0	-	130	-
Xylene	mg/kg	4.0	1200	-	-
Total Hydrocarbons as gasoline	mg/kg	10	-	3200	-
Total Hydrocarbons as gasoline	mg/kg	20	2500	-	-
Methyl tert-butyl ether	mg/kg	4.0	-	ND	-
Methyl tert-butyl ether	mg/kg	8.0	ND	-	-
Fluorobenzene (Surrogate)	%		109	106	-
MDH VOLATILE ORGANICS - 465D SOIL					HB
Date Analyzed			-	-	L 09/09/92
Dichlorodifluoromethane	ug/kg	190	-	-	ND

1710 Douglas Drive North
Minneapolis, MN 55422
TEL: 612-544-5543
FAX: 612-525-3377

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 4

October 06, 1992
PACE Project Number: 92090253

Client Reference: Total Petroleum

PACE Sample Number:			10 0255874	10 0255882	10 0255939
Date Collected:			08/31/92	08/31/92	08/31/92
Date Received:			09/01/92	09/01/92	09/02/92
Client Sample ID:			SP 1	SP 2	SPO 1230
Parameter	Units	MDL			
ORGANIC ANALYSIS					
MDH VOLATILE ORGANICS - 465D SOIL		↓			HB
Chloromethane	ug/kg	190	-	-	ND
Vinyl Chloride	ug/kg	190	-	-	ND
Bromomethane	ug/kg	190	-	-	ND
Chloroethane	ug/kg	120	-	-	ND
Dichlorofluoromethane	ug/kg	120	-	-	ND
Trichlorofluoromethane	ug/kg	62	-	-	ND
Ethyl ether	ug/kg	620	-	-	ND
1,1,2-Trichlorotrifluoroethane	ug/kg	120	-	-	ND
Acetone	ug/kg	5000	-	-	ND
1,1-Dichloroethylene	ug/kg	62	-	-	ND
Allyl chloride	ug/kg	250	-	-	ND
Methylene Chloride	ug/kg	120	-	-	ND
Methyl tert-Butyl Ether	ug/kg	500	-	-	ND
trans-1,2-Dichloroethylene	ug/kg	62	-	-	ND
1,1-Dichloroethane	ug/kg	62	-	-	ND
Methyl ethyl ketone	ug/kg	3100	-	-	ND
2,2-Dichloropropane	ug/kg	62	-	-	ND
cis-1,2-Dichloroethylene	ug/kg	62	-	-	ND
Chloroform	ug/kg	62	-	-	ND
Bromochloromethane	ug/kg	120	-	-	ND
Tetrahydrofuran	ug/kg	2500	-	-	ND
1,1,1-Trichloroethane	ug/kg	62	-	-	ND
1,1-Dichloropropene	ug/kg	120	-	-	ND
Carbon Tetrachloride	ug/kg	62	-	-	ND
Benzene	ug/kg	62	-	-	ND
1,2-Dichloroethane	ug/kg	62	-	-	ND
1,2-Dichloropropane	ug/kg	62	-	-	ND
1,1,2-Trichloroethylene	ug/kg	62	-	-	ND
Dibromomethane	ug/kg	190	-	-	ND
Bromodichloromethane	ug/kg	62	-	-	ND
Methyl isobutyl ketone	ug/kg	1000	-	-	ND

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 5

October 06, 1992
PACE Project Number: 92090253

Client Reference: Total Petroleum

PACE Sample Number:			10 0255874	10 0255882	10 0255939
Date Collected:			08/31/92	08/31/92	08/31/92
Date Received:			09/01/92	09/01/92	09/02/92
Client Sample ID:			SP 1	SP 2	SPO 1230
Parameter	Units	MDL			
ORGANIC ANALYSIS					
MDH VOLATILE ORGANICS - 465D SOIL					HB
cis-1,3-Dichloro-1-propene	ug/kg	62	-	-	ND
Toluene	ug/kg	100	-	-	ND
trans-1,3-Dichloro-1-propene	ug/kg	62	-	-	ND
1,1,2-Trichloroethylene	ug/kg	62	-	-	ND
1,3-Dichloropropane	ug/kg	100	-	-	ND
1,1,2,2-Tetrachloroethylene	ug/kg	120	-	-	ND
Dibromochloromethane	ug/kg	120	-	-	ND
1,2-Dibromoethane	ug/kg	500	-	-	ND
Chlorobenzene	ug/kg	100	-	-	ND
1,1,1,2-Tetrachloroethane	ug/kg	62	-	-	ND
Ethyl benzene	ug/kg	100	-	-	630
m-Xylene	ug/kg	100	-	-	310 EL
p-Xylene	ug/kg	100	-	-	310 EL
o-Xylene	ug/kg	100	-	-	1300
Styrene	ug/kg	100	-	-	ND
Bromoform	ug/kg	120	-	-	ND
Cumene	ug/kg	120	-	-	690
1,1,2,2-Tetrachloroethylene	ug/kg	120	-	-	ND
1,2,3-Trichloropropane	ug/kg	500	-	-	ND
Bromobenzene	ug/kg	120	-	-	ND
n-Propylbenzene	ug/kg	120	-	-	ND
2-Chlorotoluene	ug/kg	120	-	-	ND
1,3,5-Trimethylbenzene	ug/kg	100	-	-	3000
4-Chlorotoluene	ug/kg	190	-	-	ND
tert-Butylbenzene	ug/kg	100	-	-	4400
1,2,4-Trimethylbenzene	ug/kg	100	-	-	3400
sec-Butylbenzene	ug/kg	120	-	-	2100
p-Cymene	ug/kg	120	-	-	ND
1,3-Dichlorobenzene	ug/kg	120	-	-	ND
1,4-Dichlorobenzene	ug/kg	120	-	-	ND
n-Butylbenzene	ug/kg	150	-	-	ND

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 6

October 06, 1992
PACE Project Number: 920902531

Client Reference: Total Petroleum

Parameter	Units	MDL	10 0255874 08/31/92 09/01/92 SP 1	10 0255882 08/31/92 09/01/92 SP 2	10 0255939 08/31/92 09/02/92 SPO 1230
PACE Sample Number:					
Date Collected:					
Date Received:					
Client Sample ID:					
ORGANIC ANALYSIS					
MDH VOLATILE ORGANICS - 465D SOIL					HB
1,2-Dichlorobenzene	ug/kg	120	-	-	ND
1,2-Dibromo-3-chloropropane	ug/kg	100	-	-	ND
1,2,4-Trichlorobenzene	ug/kg	150	-	-	ND
Hexachlorobutadiene	ug/kg	250	-	-	ND
Naphthalene	ug/kg	150	-	-	5400
1,2,3-Trichlorobenzene	ug/kg	150	-	-	ND
Fluorobenzene (Surrogate)	%		-	-	84.1
HEXANE EXTRACT PETROLEUM PRODUCTS SOIL					
Date Analyzed			-	-	X:09/15/92
Date Extracted			-	-	09/09/92
Fuel oil #1	mg/kg	3.3	-	-	ND
Fuel oil #2	mg/kg	3.3	-	-	1300 → TPH
Pentacosane (Surrogate Std.)	%		-	-	101
PCBS IN SOIL (METHOD 8080)					
Date Analyzed			-	-	G 9-23-92
Date Extracted			-	-	090992
PCB-1016	mg/kg	1.0	-	-	ND
PCB-1221	mg/kg	1.0	-	-	ND
PCB-1232	mg/kg	1.0	-	-	ND
PCB-1242	mg/kg	1.0	-	-	ND
PCB-1248	mg/kg	1.0	-	-	ND
PCB-1254	mg/kg	1.0	-	-	ND
PCB-1260	mg/kg	1.0	-	-	ND
TCMX	%		-	-	108
DCB	%		-	-	127

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 7

October 06, 1992
PACE Project Number: 92090253

Client Reference: Total Petroleum

PACE Sample Number:			10 0255947	10 0255955	10 0255963
Date Collected:			08/28/92	08/28/92	08/28/92
Date Received:			09/02/92	09/02/92	09/02/92
Client Sample ID:			BTUO	DTHO	SPO 1245
Parameter	Units	MDL			
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Mercury	mg/kg	0.02	ND	-	ND
RCRA TOXICITY METALS					
Arsenic	mg/kg	8.0	8.0	-	ND
Barium	mg/kg	0.5	50	-	51
Cadmium	mg/kg	0.5	0.5	-	ND
Chromium	mg/kg	0.5	22	-	11
Lead	mg/kg	2.5	31	-	23
Selenium	mg/kg	4.0	4.9	-	ND
Silver	mg/kg	0.5	ND	-	ND
ORGANIC ANALYSIS					
MDH VOLATILE ORGANICS - 465D SOIL					HB
Date Analyzed			-	-	L 09/09/92
Dichlorodifluoromethane	ug/kg	190	-	-	ND
Chloromethane	ug/kg	190	-	-	ND
Vinyl Chloride	ug/kg	190	-	-	ND
Bromomethane	ug/kg	190	-	-	ND
Chloroethane	ug/kg	120	-	-	ND
Dichlorofluoromethane	ug/kg	120	-	-	ND
Trichlorofluoromethane	ug/kg	62	-	-	ND
Ethyl ether	ug/kg	620	-	-	ND
1,1,2-Trichlorotrifluoroethane	ug/kg	120	-	-	ND
Acetone	ug/kg	5000	-	-	ND
1,1-Dichloroethylene	ug/kg	62	-	-	ND
Allyl chloride	ug/kg	250	-	-	ND
Methylene Chloride	ug/kg	120	-	-	ND
Methyl tert-Butyl Ether	ug/kg	500	-	-	ND
trans-1,2-Dichloroethylene	ug/kg	62	-	-	ND
1,1-Dichloroethane	ug/kg	62	-	-	ND
Methyl ethyl ketone	ug/kg	3100	-	-	ND
2,2-Dichloropropane	ug/kg	62	-	-	ND

pace. INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 8

October 06, 1992
PACE Project Number: 92090253

Client Reference: Total Petroleum

PACE Sample Number:			10 0255947	10 0255955	10 0255963
Date Collected:			08/28/92	08/28/92	08/28/92
Date Received:			09/02/92	09/02/92	09/02/92
Client Sample ID:			BTUO	DTHO	SPO 1245
Parameter	Units	MDL			
ORGANIC ANALYSIS					
MDH VOLATILE ORGANICS - 465D SOIL					HB
cis-1,2-Dichloroethylene	ug/kg	62	-	-	ND
Chloroform	ug/kg	62	-	-	ND
Bromochloromethane	ug/kg	120	-	-	ND
Tetrahydrofuran	ug/kg	2500	-	-	ND
1,1,1-Trichloroethane	ug/kg	62	-	-	ND
1,1-Dichloropropene	ug/kg	120	-	-	ND
Carbon Tetrachloride	ug/kg	62	-	-	ND
Benzene	ug/kg	62	-	-	ND
1,2-Dichloroethane	ug/kg	62	-	-	ND
1,2-Dichloropropane	ug/kg	62	-	-	ND
1,1,2-Trichloroethylene	ug/kg	62	-	-	ND
Dibromomethane	ug/kg	190	-	-	ND
Bromodichloromethane	ug/kg	62	-	-	ND
Methyl isobutyl ketone	ug/kg	1000	-	-	ND
cis-1,3-Dichloro-1-propene	ug/kg	62	-	-	ND
Toluene	ug/kg	100	-	-	ND
trans-1,3-Dichloro-1-propene	ug/kg	62	-	-	ND
1,1,2-Trichloroethylene	ug/kg	62	-	-	ND
1,3-Dichloropropane	ug/kg	100	-	-	ND
1,1,2,2-Tetrachloroethylene	ug/kg	120	-	-	ND
Dibromochloromethane	ug/kg	120	-	-	ND
1,2-Dibromoethane	ug/kg	500	-	-	ND
Chlorobenzene	ug/kg	100	-	-	ND
1,1,1,2-Tetrachloroethane	ug/kg	62	-	-	ND
Ethyl benzene	ug/kg	100	-	-	ND
m-Xylene	ug/kg	100	-	-	ND
p-Xylene	ug/kg	100	-	-	ND
o-Xylene	ug/kg	100	-	-	ND
Styrene	ug/kg	100	-	-	ND
Bromoform	ug/kg	120	-	-	ND
Cumene	ug/kg	120	-	-	ND

1710 Douglas Drive North
Minneapolis, MN 55422
TEL: 612-544-5543
FAX: 612-525-3377

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 9

October 06, 1992
PACE Project Number: 92090253

Client Reference: Total Petroleum

Parameter	Units	MDL	10 0255947 08/28/92 09/02/92 BTUO	10 0255955 08/28/92 09/02/92 DTHO	10 0255963 08/28/92 09/02/92 SPO 1245
PACE Sample Number:					
Date Collected:					
Date Received:					
Client Sample ID:					
ORGANIC ANALYSIS					
MDH VOLATILE ORGANICS - 465D SOIL					HB
1,1,2,2-Tetrachloroethylene	ug/kg	120	-	-	ND
1,2,3-Trichloropropane	ug/kg	500	-	-	ND
Bromobenzene	ug/kg	120	-	-	ND
n-Propylbenzene	ug/kg	120	-	-	ND
2-Chlorotoluene	ug/kg	120	-	-	ND
1,3,5-Trimethylbenzene	ug/kg	100	-	-	ND
4-Chlorotoluene	ug/kg	190	-	-	ND
tert-Butylbenzene	ug/kg	100	-	-	ND
1,2,4-Trimethylbenzene	ug/kg	100	-	-	ND
sec-Butylbenzene	ug/kg	120	-	-	ND
p-Cymene	ug/kg	120	-	-	ND
1,3-Dichlorobenzene	ug/kg	120	-	-	ND
1,4-Dichlorobenzene	ug/kg	120	-	-	ND
n-Butylbenzene	ug/kg	150	-	-	ND
1,2-Dichlorobenzene	ug/kg	120	-	-	ND
1,2-Dibromo-3-chloropropane	ug/kg	100	-	-	ND
1,2,4-Trichlorobenzene	ug/kg	150	-	-	ND
Hexachlorobutadiene	ug/kg	250	-	-	ND
Naphthalene	ug/kg	150	-	-	ND
1,2,3-Trichlorobenzene	ug/kg	150	-	-	ND
Fluorobenzene (Surrogate)	%		-	-	88.6
HEXANE EXTRACT PETROLEUM PRODUCTS SOIL					
Date Analyzed			-	X:09/15/92	X:09/15/92
Date Extracted			-	09/09/92	09/09/92
Fuel oil #1	mg/kg	3.3	-	ND	ND
Fuel oil #2	mg/kg	3.3	-	ND	180
Total Petroleum Hydrocarbons	mg/kg	3.3	-	10	-
Pentacosane (Surrogate Std.)	%		-	99.8	100
PCBS IN SOIL (METHOD 8080)					
Date Analyzed			ND IS	-	G 9-22-92
Date Extracted			ND	-	090992

1710 Douglas Drive North
Minneapolis, MN 55422
TEL: 612-544-5543
FAX: 612-525-3377

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 10

October 06, 1992
PACE Project Number: 920902531

Client Reference: Total Petroleum

Parameter	Units	MDL	PACE Sample Number: 10 0255947 Date Collected: 08/28/92 Date Received: 09/02/92 Client Sample ID: BTUO	PACE Sample Number: 10 0255955 Date Collected: 08/28/92 Date Received: 09/02/92 Client Sample ID: DTHO	PACE Sample Number: 10 0255963 Date Collected: 08/28/92 Date Received: 09/02/92 Client Sample ID: SPO 1245
ORGANIC ANALYSIS					
PCBS IN SOIL (METHOD 8080)					
PCB-1016	mg/kg	1.0	ND	-	ND
PCB-1221	mg/kg	1.0	ND	-	ND
PCB-1232	mg/kg	1.0	ND	-	ND
PCB-1242	mg/kg	1.0	ND	-	ND
PCB-1248	mg/kg	1.0	ND	-	ND
PCB-1254	mg/kg	1.0	ND	-	ND
PCB-1260	mg/kg	1.0	ND	-	ND
TCMX	%		ND	-	98.8
DCB	%		ND	-	109

These data have been reviewed and are approved for release.

W. C. Houck

William C. Houck
Project Manager

1710 Douglas Drive North
Minneapolis, MN 55422
TEL: 612-544-5543
FAX: 612-525-3377

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 11

FOOTNOTES
for pages 1 through 10

October 06, 1992
PACE Project Number: 92090253

Client Reference: Total Petroleum

EL	These compounds co-elute.
HB	High boiling point hydrocarbons are present in sample.
IS	Insufficient sample volume received.
MDL	Method Detection Limit
ND	Not detected at or above the MDL.

1710 Douglas Drive North
Minneapolis, MN 55422
TEL: 612-544-5543
FAX: 612-525-3377

Law Offices
Daly, Bohling & O'Connor
1875 Plaza Drive
Suite #203
Eagan, Minnesota 55122

Individual Practitioners

Robert E. Daly
Frederick A. Bohling
Michael W. O'Connor
Dana K. McKenzie

Telephone (612) 452-8250
FAX (612) 452-8316

November 5, 1992

Mr. Richard Newquist
Minnesota Pollution Control Agency
Tanks and Spills Section
520 Lafayette Road
St. Paul, MN 55155

Re: Tank removal at former Total Petroleum
1526 County Road B
Roseville, MN

Dear Mr. Newquist:

The undersigned is the owner of the above-referenced property, and at the request of Kelleher Environmental, Inc., who removed the tanks and the contaminated soil from the site, we are writing you this letter.

To the best of my knowledge and belief as owner of the subject property, I can state that there were no pesticides or herbicides in the used oil tanks that were removed from the property.

Should you request any further information, please contact the undersigned.

Sincerely,

Robert E. Daly

RED/mds

Silver Celebration 25/20

Minnesota Pollution Control Agency

Celebrating our 25th anniversary and the 20th anniversary of the Clean Water Act

September 9, 1992

Mr. Bob Daly
1875 Plaza Drive
Suite 203
Eagen, Minnesota 55122

Dear Mr. Daly:

RE: Petroleum Storage Tank Release Investigation and Corrective Action
Site: Former Total Petroleum, 1526 West County Road B, Roseville
Site ID#: LEAK00005586

The Minnesota Pollution Control Agency (MPCA) has received notification that a release of petroleum has occurred from storage tank facilities which you own and/or operate.

Federal and state laws require that persons legally responsible for storage tank releases notify the MPCA of the release, investigate the extent of the release and take actions needed to ensure that the release is cleaned up. A person is generally considered legally responsible for a tank release if the person owned or operated the tank either during or after the release.

We are aware that an initial investigation of the site has occurred and petroleum contaminated soil and/or ground water has been identified. The MPCA staff is therefore requesting you to take the necessary steps to investigate and clean up the release in accordance with the enclosed MPCA technical documents. If you have not already done so, we recommend that you hire a qualified consulting firm who has experience in conducting petroleum release site investigations and taking corrective actions. The MPCA requires that the site investigation fully define the extent and magnitude of the soil and/or ground water contamination caused by the release. We reserve the right to reject proposed corrective actions if the requirements of the site investigation have not been fulfilled. In addition, you must notify the MPCA within 24 hours if you discover free-floating petroleum product on the surface of the ground water.

If you do perform the requested work, the state may reimburse you for a major portion of your costs. The Petroleum Tank Release Cleanup Act establishes a fund which in certain circumstances provides partial reimbursement for petroleum tank release cleanup costs. This fund is administered by the Petro Board. More specific eligibility rules are available from the Petro Board (612/297-1119 or 612/297-4203).

If you do not respond within 30 days, MPCA staff will assume you do not intend to comply with this request. In this event, the MPCA Commissioner may order you to take corrective action at the site. If you do not comply with the Commissioner's order, it may be enforced in court or, alternatively, the MPCA could spend its own money cleaning up the release and then seek to recover its costs from you or other responsible persons through legal action. Failure to cooperate with the MPCA in a timely manner may also result in reduced reimbursement from the Petro Board.

If you conclude that the release in question is not from any tank which you have owned or operated, please notify the MPCA immediately and explain the basis of your conclusion.

A packet of fact sheets is enclosed for your information.

For site specific questions, contact me, your site's project manager, at 612/297-8586. In addition, all future correspondence should be addressed to me.

Thank you.

Sincerely,

Richard Newquist

Richard Newquist
Pollution Control Specialist
Tanks and Spills Section
Hazardous Waste Division

RN:mp

Enclosures

cc: Joel Hewitt, Fire Chief, Roseville

~~Scott Miller~~
Kathryn Sinicki

MINNESOTA POLLUTION CONTROL AGENCY
COMMISSIONER'S SITE REPORT
TO THE PETROLEUM TANK RELEASE
COMPENSATION BOARD

Site ID#:	Release Site:	Applicant:
LEAK00005878	Klatt Motors Date of UST Registration: Region IV - Marshall	Klatt Motors May 20, 1986
LEAK0005586	Former Total Petroleum Date of UST Registration: Metro	Bob Daly January 1, 1986
LEAK00000605	Honeywell, Inc. Date of UST Registration: Metro	Honeywell, Inc. 1969

---

1. Eligibility Determination

I hereby determine that the corrective action described in the application was appropriate in terms of protecting public health, welfare, and the environment and that the applicant is eligible for Petrofund reimbursement, pursuant to Minn. Stat. § 115C.09, subd. 2, items (a) and (c)(1992).

2. Compliance with Applicable Requirements: ADEQUATE

Information readily available to the Minnesota Pollution Control Agency (MPCA) staff shows that the applicant has complied with the applicable requirements of Minn. Stat. § 115C.09, subd. 3(f)(1992).

The determinations in this report are made solely for the purpose of determining eligibility for reimbursement under Minn. Stat. § 115C.09, subds. 2 and 3 (1992). Nothing in this site report releases any person from liability, and the MPCA does not waive any of its authority to require additional corrective action at the above-referenced site or to enforce other provisions of state law.

Dated: 7/27/93

Timothy K. Schenkenberg

for Michael Kanner, Manager
Tanks and Spills Section
Hazardous Waste Division

PETROLEUM TANK RELEASE COMPLIANCE CHECKLIST page 1

SITE NAME Former Total Petroleum LEAK0000 5586

TANK SIZE	PRODUCT TYPE	PRODUCT USE
6000 g	gasoline	
4000 g	gasoline	
550 g	fuel oil	heating
550 g	waste oil	

(UST/AST) DATE INSTALLED UNK. DATE REMOVED 8/26/92

USE THE FOLLOWING CRITERIA TO DETERMINE IF THE LEAKING TANK IS IN COMPLIANCE:

USTs 110 gallons or less OR heating oil USTs 1,100 gallons or less consumed on the premises OR farm/residential USTs 1,100 gallons or less containing motor fuel not for resale	___ criteria I
Heating oil USTs > 1,100 gallons	___ criteria I, II
All USTs > 110 gallons NOT specified above	X criteria I, II, III
ASTs	___ ** only

CRITERIA I

**Release Notification: Violation NO
Date release discovered: (MPCA) 8/27/92 (PetroApp) 8/26/92
Date release reported: (MPCA) 8/27/92 (PetroApp) 8/26/92
Was there additional environmental damage due to reporting delay? Yes ___ No N/A

**Cooperation/Due Care Issue: Violation N/A
(i.e. land application prior to approval, release during tank removal, etc.)

Comments: _____

CRITERIA II

**Tank Registration: Violation NO
AST or UST number: 4084
Date registered: 1/31/86
Compliance dates: UST before 12/1/87
AST before 1/1/91

Certified UST remover/installer: Yes ✓ No ___ N/A ___ Violation NO
(applicable after 7/9/90) Cert# 214

Corrosion Protection: Yes ___ No ___ N/A X Violation NO
(applicable for USTs installed after 8/1/85; existing USTs require corrosion protection no later than December 1998.)

CRITERIA III

Prior removal notice: Yes ✓ No ___ N/A ___ Violation NO
(applicable after 12/22/88)

(over)

Leak Detection: Yes _____ No _____ N/A _____ Violation____
(use following table to determine need for leak detection)

tank installed...	leak detection deadline
before 1965	Dec. 1989
1965 - 1969	Dec. 1990
1970 - 1974	Dec. 1991
1975 - 1979	Dec. 1992
1980 - Dec. 1988	Dec. 1993

(tanks installed after 12/22/88 should have leak detection at installation)

Spill/Overfill Prevention: Yes _____ No _____ N/A _____ Violation____
(applicable for USTs installed after 12/22/88; existing USTs require spill/overfill prevention no later than December 1998.)

**AST Secondary Containment: Yes _____ No _____ N/A _____ Violation____

Completed by: _____ Date: _____

MINNESOTA PETROLEUM TANK RELEASE COMPENSATION BOARD
Application for Reimbursement

#5586

PART I **APPLICATION PROCESS**

(Check One) **Check appropriate Phase and complete the information requested for the Phase checked** (See Application Guide).

[x] **Phase 1.** MPCA approval of Soil Corrective Action Plan (SCAP).
a) Date of SCAP approval *12/28/92*. (Attach copy)
b) Date SCAP was submitted to MPCA *10/21/92*.

MAR 0 9 1993
Dept. of Commerce

[x] **Phase 2.** Submission of Documentation of Soil Treatment
Date Documentation was submitted to MPCA *1/4/93 and 2/4/93*.

[ ] **Phase 3.** MPCA approval of Comprehensive Corrective Action Plan (CCAP)
a) Date of CCAP approval __/__/__. (Attach copy)
b) Date CCAP was submitted to MPCA __/__/__.

[ ] **Phase 4.** Submission of CCAP Installation Letter to MPCA
Date of CCAP Installation Letter __/__/__. (Attach copy)

[ ] **Ongoing Expenses** Following Phase 4 Reimbursement or MPCA Site Closure or Conditional Closure

PART II **APPLICANT INFORMATION**
Please be advised that the information used to support this application is subject to audit by the MPCA and MDOC.

1. "Responsible Person" [X] "Volunteer" [ ] or "Non-Responsible Person" [ ]
(check one) (see application guide)

Name: *Bob Daly*
c/o Daly, Bohling & O'Connor

2. Mailing Address: *1875 Plaza Drive*
Eagan, MN 55112 Phone: *(612) 452-0904*

3. Site ID: Leak # *00005586*

4. The applicant is a: [ ] Corporation [ ] Partnership [*X*] Individual [ ] Other _____

5. Applicant was the owner or operator of the tank from *8/29/81* to *8/26/92*.

6. "Volunteer" Applicant owned property from __/__/__ to __/__/__.

7. Has applicant executed any Petrofund assignment agreements? yes X no ~~X~~
Name of assignee(s) _____(attach copy of agreement)

This form is effective through December 31, 1992

O.K. - bills w/app
8/23/92 - 2/10/93

PART III TANK FACILITY

1. Name of "Tank Facility" (see application guide) where the petroleum release occurred:

   (Former) Total Petroleum

2. Tank facility address: *1526 County Road B*
   St. Paul, Minnesota

3. Contact Person at Tank Facility: *Currently not occupied*
   Phone: ( )

4. To the best of your knowledge, list all other persons besides the applicant who were owners or operators of the tank during or after the petroleum release:

   Total Petroleum, Inc.

   Bob/Barbara Daly

5. Did any of the persons listed in question 4 incur corrective action costs related to this petroleum release? yes *X* no ____ If yes, list name and address if known:

   Bob/Barbara Daly - Soil Corrective Action

6. Date when petroleum release was detected: *8/26/92*

   What test was performed to initially establish that a release occurred? *field screening*

7. Date when petroleum release was reported to the MPCA: *8/26/92.*

8. a. Which tanks (or associated piping) were the source of the release at this tank facility? (see application guide)

   All four (4) underground storage tanks located at the site were noted to have several holes. Piping leaks under the dispensers were also noted.

   b. What was the cause of the release?

   Holes in the tanks and leaks in the piping beneath the dispensers.

9. Was this tank(s) used only to store heating oil for consumptive use on the premises where stored? (check one) YES [*X*] NO [ ]
   One tank contained heating oil.

PART IV TANK INFORMATION AND COMPLIANCE

(Note: If you do not know if tanks are registered and/or prior tank removal notice was given, enter "unk" (unknown) for these items. Please do not contact MPCA for this information.

A. **Underground Storage Tanks**. Complete the following information to reflect the status of your underground storage tanks at the time the release was discovered. Refer to the attachment ***"Do Underground Storage Tanks and Piping Requirements Apply to Your Petroleum Tank?"*** **and** ***"What Do You Have To Do?/When Do You Have To Act?"*** to determine the applicability of registration, leak detection, corrosion protection, and spill/overfill protection.

(Please attach additional sheets if more than five tanks are involved.)

Tank	Petroleum Product	Capacity	Type of Tank	Date Installed	Registered Yes/No/Unk	Date Removed
1	*Unleaded Gasoline*	*6000*	*Single Wall Steel*	*Unknown*	*Yes*	*8-26-92*
2	*Leaded/Unleaded*	*4000*	*Single Wall Steel*	*Unknown*	*Yes*	*8-26-92*
3	*Waste Oil*	*560*	*Single Wall Steel*	*Unknown*	*Yes*	*8-26-92*
4	*Heating Oil*	*560*	*Single Wall Steel*	*Unknown*	*Yes*	*8-26-92*
5						

	Tanks			Piping		
Tank	Leak Detection (Methods)	Corrosion Protection (Yes/No)	Spill/Overfill Protection (Yes/No)	Type of Piping	Leak Detection (Methods)	Corrosion Protection (Yes/No)
1	*Daily Inventory Control*	*No*	*No*	*Bare steel*	*Line Leak Detector*	*No*
2	*Daily Inventory Control*	*No*	*No*	*Bare steel*	*Line Leak Detector*	*No*
3	*Daily Inventory Control*	*No*	*No*	*Bare steel*	*None*	*No*
4	*Daily Inventory Control*	*No*	*No*	*Bare steel*	*None*	*No*
5						

Tank	Tank Tightness Test Dates	Piping Tightness Test Dates
1		
2		
3		
4		
5		

Are there any special circumstances you would like the persons reviewing your application to be aware of? Please explain: _____

_____

PART V. ELIGIBLE COSTS

1. The Eligible Cost Worksheets attached are for INVESTIGATION costs, CLEAN-UP costs, and CONSULTANT costs. These worksheets must be completed listing each corrective action for which you are requesting reimbursement.

2. Invoices submitted with this application cover the period from *08/23/92* to *02/19/93*

3. Are any of the costs listed in the Eligible Cost Worksheets in dispute? yes ____ no *X*
(see application guide)

4. At this time, do you anticipate incurring any Ongoing correction action costs relative to the petroleum release at this Tank Facility? yes ____ no *X*

   If yes, explain briefly what work will be done and an approximate cost of that work.

   _____

   _____

5. a. Please state the total amount of contaminated soil which was excavated at this site (cubic yards or tons): *452.94 tons*

   b. What was the soil contamination concentration (total hydrocarbons) *3200* ppm?

6. Has the applicant been eligible to recover cleanup costs arising from this petroleum release under any insurance policy at any time since June 4, 1987? yes ____ no *X*

   If yes, provide the following:

Insurance Company	Policy #	Policy Limits	Deductible	Period Covered
				/ /
				/ /

7. Total of all eligible costs as listed In the Eligible Cost Worksheets: $*35,404.08*

   X 90%

   = $*31,863.67*

   Insurance Reimbursement (Subtract) - $(0)

   Total Reimbursement Request (See application guide) = $*31,863.67*

PART VI CONTRACTORS/CONSULTANTS

1. Complete the following for all contractors, subcontractors, consultants, engineering firms or others who performed corrective actions at this release site. (see application guide) **Failure to provide this information for ALL persons who performed corrective action may result in an action to recover any reimbursement which may be paid.** (Attach additional sheets if necessary.)

Name of individual or firm: *Kelleher Environmental, Inc.*

Mailing address: *12252 Nicollet Avenue So., Burnsville, MN 55337*

Contact Person: *Teri Hovanec* Phone: *(612)890-4846*

Name of individual or firm: *Clean Soils, Inc.*

Mailing address: *84 2nd Avenue S.E., New Brighton, MN 55112*

Contact Person: *Bruce Rivers* Phone: *(612)639-8811*

Name of individual or firm: *Widseth, Smith, Nolting*

Mailing address: *401 Golf Course Drive, Brainerd, MN 58401*

Contact Person: *Jeff Miller* Phone: *(218)829-5117*

Name of individual or firm: *Pace Laboratories*

Mailing address: *1710 Douglas Drive No., Minneapolis, MN 55422*

Contact Person: *Wm. C. Houck* Phone: *(612)544-5543*

Name of individual or firm: _____

Mailing address: _____

Contact Person: _____ Phone: _____

2. Describe below any relationship, financial or otherwise, between the applicant and any contractor who performed work at this site:

_____

_____

_____

PART VII **CERTIFICATION** (see application guide)

A. "I certify under penalty of law that this document an all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those person directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that if I have submitted invoices for costs that I have incurred but that remain unpaid, I will pay these invoices within 30 days or receipt of reimbursement from the board. I understand that if I fail to do so, the board may demand return of all or any portion of reimbursement paid to me and that if I fail to comply with the board's demand, that the board may recover the reimbursement, plus administrative and legal expenses in a civil action in district court. I understand that I may also be subject to a civil penalty."

Robert Daly
Signature of Applicant

Robert Daly
Name (Please Print)

3-8-93
Date

Witnessed by: Patricia Farrell
Name

3-8-93
Date

Every applicant must sign Part A. above. If applicant is a corporation or partnership, the following certification must also be made:

"I further certify that I am authorized to sign and submit this application on behalf of

_____."

_____
Signature

_____
Name (Please Print)

_____
Title (See Application Guide, Part IV)

_____
Date

Please send this application and accompanying documents to:

Petroleum Tank Release Compensation Board
Minnesota Department of Commerce
133 East Seventh Street
St. Paul, Minnesota 55101
(612) 297-4203
(612) 297-1119

PART IV ELIGIBLE COST WORKSHEET - INVESTIGATION AND CLEAN-UP

* Descriptions must be specific as to work performed.
* Invoices must be submitted for each cost listed below.
* Invoices must contain sufficient detail to verify costs and services entered below.
* Duplicate this form if additional worksheets are needed.

A. SOIL BORINGS/MONITORING WELLS - ETC.

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub-Total
N/A					
				TOTAL	

B. LABORATORY TESTS AND ANALYSIS

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub-Total
Soil Analysis	*Pace, Inc.*	*#10-006098*	*3 tests*	*$85.00/test*	*$255.00*
Soil Analysis	*Pace, Inc.*	*#10-006098*	*2 tests*	*$250.00/test*	*$500.00*
Soil Analysis	*Pace, Inc.*	*#10-006098*	*11 tests*	*$105.00/test*	*$1155.00*
Soil Analysis	*Pace, Inc.*	*#10-006098*	*7 tests*	*$13.00/test*	*$91.00*
Soil Analysis	*Pace, Inc.*	*#10-006098*	*3 tests*	*$39.00/test*	*$117.00*
Soil Analysis	*Pace, Inc.*	*#10-006098*	*10 tests*	*$15.00/test*	*$150.00*
Soil Analysis	*Pace, Inc.*	*#10-006098*	*3 tests*	*$91.00/test*	*$273.00*
				TOTAL	*$2,541.00*

PART IV **ELIGIBLE COST WORKSHEET - INVESTIGATION AND CLEAN-UP**

* Descriptions must be specific as to work performed.
* Invoices must be submitted for each cost listed below.
* Invoices must contain sufficient detail to verify costs and services entered below.
* Duplicate this form if additional worksheets are needed.

C. EXCAVATION

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub-Total
Site Preparation	*Kelleher Environmental*	*#7232*	*4 hrs.*	*$50.00/hr.*	*$200.00*
Remove & Dispose of Asphalt & Concrete	*Kelleher Environmental*	*#7232*	*90 sq. yds.*	*$9.00/sq. yd.*	*$810.00*
Excavate uncontaminated soil above & around tanks	*Kelleher Environmental*	*#7232*	*150 cy*	*$5.00/cy*	*$750.00*
Excavation & stockpiling of contaminated soil	*Kelleher Environmental*	*#7232*	*300 cy*	*$8.00/cy*	*$2,400.00*
				TOTAL	*$4,160.00*

D. SOIL DISPOSAL

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub-Total
Load contaminated soil	*Kelleher Environmental*	*#7258*	*289 cy*	*$3.50/cy*	*$1,011.50*
Thermal Desorption (includes weighing of trucks)	*CLEANSOILS, Inc.*	*#1154*	*404.19 tons*	*$28.21/ton*	*$11,402.32*
Load contaminated soil	*Kelleher Environmental*	*#7323*	*34.82 cy*	*$12.75/cy*	*$443.96*
Mobilization of backhoe and bobcat	*Kelleher Environmental*	*#7323*	*2 ea.*	*$100.00/ea.*	*$200.00*
Provide backhoe	*Kelleher Environmental*	*#7323*	*2 hrs.*	*$125.00/hr.*	*$250.00*
Provide bobcat	*Kelleher Environmental*	*#7323*	*2 hrs.*	*$75.00/hr.*	*$150.00*
Thermal Desorption (includes weighing of trucks)	*CLEANSOILS, Inc.*	*#1263*	*48.75 tons*	*$34.41/ton*	*$1,677.50*
				TOTAL	*$15,135.28*

PART IV ELIGIBLE COST WORKSHEET - INVESTIGATION AND CLEAN-UP

* Descriptions must be specific as to work performed.
* Invoices must be submitted for each cost listed below.
* Invoices must contain sufficient detail to verify costs and services entered below.
* Duplicate this form if additional worksheets are needed.

E. WATER TREATMENT

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub-Total
				TOTAL	

PART IV ELIGIBLE COST WORKSHEET - INVESTIGATION AND CLEAN-UP

* Descriptions must be specific as to work performed.
* Invoices must be submitted for each cost listed below.
* Invoices must contain sufficient detail to verify costs and services entered below.
* Duplicate this form if additional worksheets are needed.

F. TRUCKING

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub-Total
Haul Contaminated Soils	*Kelleher Environmental*	*#7258*	*289 cy*	*$7.25/cy*	*$2,095.25*
Haul Contaminated Soils	*Kelleher Environmental*	*#7323*	*34.82 cy*	*$7.25/cy*	*$252.45*
Trucking Fees - Standby	*Kelleher Environmental*	*#7323*	*4 hrs.*	*$65.00/hr.*	*$260.00*
				TOTAL	*$2,607.70*

G. EMERGENCY and TEMPORARY HAZARD CONTROL (see application guide)

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub-Total
				TOTAL	

PART IV ELIGIBLE COST WORKSHEET - INVESTIGATION AND CLEAN-UP

* Descriptions must be specific as to work performed.
* Invoices must be submitted for each cost listed below.
* Invoices must contain sufficient detail to verify costs and services entered below.
* Duplicate this form if additional worksheets are needed.

H. SITE RESTORATION and CLOSURE

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub-Total
Backfill uncontaminated soil and compact	*Kelleher Environmental*	*#7232*	*150 cy*	*$5.00/cy*	*$750.00*
Clean fill to replace contaminated soil	*Kelleher Environmental*	*#7232*	*300 cy*	*$14.50/cy*	*$4,350.00*
				TOTAL	*$5,100.00*

I. OTHER CLEAN-UP or INVESTIGATION COSTS

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub-Total
				TOTAL	

PART IV ELIGIBLE COST WORKSHEET - INVESTIGATION AND CLEAN-UP

* Descriptions must be specific as to work performed.
* Invoices must be submitted for each cost listed below.
* Invoices must contain sufficient detail to verify costs and services entered below.
* Duplicate this form if additional worksheets are needed.

J. REPORT PREPARATION; DATA COLLECTION; OPERATION OVERSIGHT AND MAINTENANCE; SYSTEM MONITORING; CORRESPONDENCE; MILEAGE; POSTAGE; PER DIEM

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub-Total
On site personnel	*Kelleher Environmental*	*#7232*	*16 hrs.*	*$50.00/hr.*	*$1000.00*
On site personnel	*Kelleher Environmental*	*#7323*	*4 hrs.*	*$50.00/hr.*	*$200.00*
Analytical review, regulatory discussion & Preparation of Excavation Report	*Kelleher Environmental*	*#7258*	*17 hrs.*	*$72.20/hr.*	*$1227.40*
Sample Collection and Field Screening	*Kelleher Environmental*	*#7232*	*4 hrs.*	*$50.00/hr.*	*$200.00*
Sample Preparation	*Kelleher Environmental*	*#7232*	*7 samples*	*$5.00*	*$35.00*
Sample Handling	*Kelleher Environmental*	*#7232*	*7 samples*	*$5.00*	*$35.00*
Sample Collection and Field Screening-Additional	*Kelleher Environmental*	*#7232*	*5.5 hr.*	*$50.00/hr.*	*$275.00*
Sample Preparation Additional	*Kelleher Environmental*	*#7232*	*7 samples*	*$5.00*	*$35.00*
Sample Handling Additional	*Kelleher Environmental*	*#7232*	*7 samples*	*$5.00*	*$35.00*
				TOTAL	*$,3042.40*

PART IV ELIGIBLE COST WORKSHEET - INVESTIGATION AND CLEAN-UP

* Descriptions must be specific as to work performed.
* Invoices must be submitted for each cost listed below.
* Invoices must contain sufficient detail to verify costs and services entered below.
* Duplicate this form if additional worksheets are needed.

K. MARK-UP

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub-Total
Soil Analysis	*Pace, Inc.*	*#7232*	*#10-006098*	*15%*	*$381.15*
Thermal Desorption	*CLEANSOILS, Inc.*	*#7258*	*#1154*	*10%*	*$1,140.23*
Thermal Desorption	*CLEANSOILS, Inc.*	*#7323*	*#1263*	*15%*	*$251.62*
Field Map Development	*Widseth, Smith, Nolting & Assoc., Inc.*	*#7323*	*Nov. 30, 1992*	*15%*	*$26.70*
				TOTAL	*$1,799.70*

L. OTHER CONSULTANT SERVICES (specify)

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub-Total
Coordination w/MPCA (permits for disposal)	*Kelleher Environmental*	*#7323*	*3 hrs.*	*$60.00/hr.*	*$180.00*
Soil Disposal Application	*Kelleher Environmental*	*#7323*	*1 hr.*	*$60.00/hr.*	*$60.00*
Field Map Development	*Widseth, Smith, Nolting & Assoc., Inc.*	*Nov. 30, 1992*	*4 hrs.*	*$44.50/hr.*	*$178.00*
Coordination w/Property Transfer/Case Manager at MPCA	*Kelleher Environmental*	*#7346*	*6 hrs.*	*$60.00/hr.*	*$360.00*
Preparation of reimbursement application	*Kelleher Environmental*	*#7346*	*4 hrs.*	*$60.00/hr.*	*$240.00*
				TOTAL	*$1,018.00*

SUMMARY REPORT

PROJECT SUMMARY

I. *INTRODUCTION:*

On August 26, 1992, Kelleher Environmental, Inc removed a total of four underground storage tanks (UST) at the former Total Petroleum site located at 1526 County Road B in Roseville, Minnesota. The removed tanks include one (1) 6,000 gallon unleaded gasoline tank, one (1) 4,000 gallon leaded/ unleaded gasoline tank, one (1) 550 gallon heating oil tank and one (1) 550 gallon waste oil tank. The tanks were transported to Determan Welding & Tank Service, Inc for disposal. Petroleum contamination which exceeded allowable MPCA requirements of the surrounding soils from leaks in piping and/or dispensers was encountered during tank removal activities. Excavation of the contaminated soils was performed.

II. *FIELD ACTIVITIES:*

Prior to commencement of the tank removal process, the gasoline tanks were purged with CO2 cylinders prior to testing with a combustible gas indicator (CGI). The heating oil and used oil tanks were also purged using a dry ice (solid CO2). The tanks measured 0% LEL after purging activities were completed. A Thermo Environmental Instrument OVM Model 580B (PID) with a 10.6 eV lamp was used to field screen soil samples during excavation activities. The field screening was used to determine the extent and depth of the contamination to assure removal of all contaminated soil.

III. *ANALYTICAL ANALYSIS:*

Soil samples were collected from the bottom and sidewalls of the tank excavations and dispenser islands as required by MPCA. A grab sample was obtained from beneath each end of individual tanks at each tank location. The samples were then labeled, preserved on ice and delivered to an independent laboratory for analysis. In addition, Chain of Custody documentation was completed and forwarded with the samples. The samples were analyzed for total petroleum hydrocarbons (TPH) and benzene, toluene, ethyl benzene and xylene (BTEX). In addition, the samples obtained beneath the heating oil and used oil tanks were analyzed to document inorganic chemicals including arsenic, lead and mercury.

IV. *DISCUSSION:*

Analytical analysis indicated the samples to meet MPCA requirements. Based on the results, the excavation was judged to be complete and backfilling operations commenced on August 27, 1992. A copy of the laboratory test report is included with this submittal. The excavated soils have been stockpiled at the site. With the exception of the waste oil contaminated soils, the stockpiled soils have been removed and transported to CleanSoils, Inc. The remaining soils will be removed from the site upon receipt of MPCA approval.

EXCAVATION REPORT

EXCAVATION REPORT FOR PETROLEUM RELEASE SITES

Minnesota Pollution Control Agency
Tanks and Spills Section
May 1992

Complete the information below and submit to the Minnesota Pollution Control Agency (MPCA) Tanks and Spills Section to document excavation and treatment of petroleum contaminated soil. Excavations must be done in accordance with "Excavation of Petroleum Contaminated Soil" (Guidance Document 6). Please attach any available preliminary site investigation reports to this excavation report.

Additional pages may be attached. Please type or print clearly.

I. BACKGROUND

A. Site: Former Total Petroleum

Street: 1526 County Road B
City, Zip: St Paul, MN
County: Ramsey

MPCA Site ID#: LEAK00005586

B. Tank Owner/Operator: Bob Daly

Mailing Address: c/o Daly Bohling & O'Connor

Street/Box: 1875 Plaza Drive, Ste 203
City, Zip: Eagan, Minnesota 55122
Telephone: 612/452-8250

C. Excavating Contractor:
Kelleher Environmental, Inc
Contact: Al Burke
Telephone: 612/890-4846
Tank Contractor Certification Number: 0214

D. Consultant: Kelleher Environmental

Contact: Mr Al Burke
Street/Box: 12252 Nicollet Avenue South
City, Zip: Burnsville, MN 55337
Telephone: 612/890-4846

E. Others on-site during site work (e.g., fire marshal, local officials, MPCA staff, etc):
St Paul Fire Marshal

Note: If person other than tank owner and/or operator is conducting the cleanup, provide name, address, and relationship to site on a separate attached sheet.

II. DATES

A. Date release reported to MPCA: 8 - 26 - 92

B. Dates site work performed:

Work Performed	Date
Removal of one (1) - 4000 Gallon Tank	8 - 26 - 92
Removal of one (1) - 6000 Gallon Tank	8 - 26 - 92
Removal of two (2) - 550 Gallon Tanks	8 - 26- 92
Excavation of contaminated soils	8 - 26 - 92
Filling/compaction activities	8 - 27 - 92

III. RELEASE INFORMATION

A. Provide the following information for all removed tanks.

Tank 1: **Capacity** 6,000 gallons **Type** Single Wall Steel **Age** Unknown

Condition: Approximately 6 - 8 holes of various sizes

Product History: Unleaded Gasoline

Approximate quantity of petroleum released, if known: Unknown

Cause of release: Holes in tank

Tank 2: **Capacity** 4,000 gallon **Type** Single Wall Steel **Age** Unknown

Condition: Approximately two to four holes in tank

Product History: Leaded - Unleaded Gasoline

Approximate quantity of petroleum released, if known: Unknown

Cause of release: Holes in tank

Tank 3: **Capacity** 550 Gallon **Type** Single Wall Steel **Age** Unknown

Condition: Several holes, bare steel

Product History: Waste Oil

Approximate quantity of petroleum released, if known: Unknown

Cause of release: Holes in tank

Tank 4: **Capacity** 550 Gallon **Type** Single Wall Steel **Age** Unknown

Condition: Several holes, bare steel

Product History: Heating Oil

Approximate quantity of petroleum released, if known: Unknown

Cause of release: Holes in tank

B. Provide the following information for all existing tanks.

Tank No.	Capacity	Contents	Type	Age
1	6,000 gallons	Unleaded	SW Steel	Unknown
2	4,000 gallons	Leaded-Unleaded	SW Steel	Unknown
3	550 gallons	Waste Oil	SW Steel	Unknown
4	550 gallons	Heating Oil	SW Steel	Unknown

C. If the release was associated with the lines or dispensers, briefly describe the problem:
Contamination due to leaks in piping and/or dispensers was encountered during removal of exisiting islands

D. If the release was a surface spill, briefly describe the problem: n/a

IV. EXCAVATION

A. Dimensions of excavation: _Excavation #1 - 45 ft x 30 ft x13 ft deep, Excavtion #2 - 35 ft x 30 ft x 13 ft deep, Excavation #3 - 15 ft x 25 ftx 13 ft deep

B. Original tank backfill material (sand, gravel, etc.): Sandy-clay

C. Native soil type (Clay, sand, etc.): Clay

D. Quantity of contaminated soil removed (cubic yards): Approximately 335 cubic yards
[Note: If more than 400 cubic yards removed, please attach copy of written approval from MPCA.]

E. Was ground water encountered or was there evidence of a seasonally high ground water table? At what depth?
No groundwater encountered

F. If a soil boring was necessary, (as indicated in part VI of "Excavation of Petroleum Contaminated Soil" (Guidance Document 6) for sand and silty sand native soils) describe the soil analytical and soil vapor headspace results. Attach the boring logs and laboratory results to this report. n/a

G. If ground water was encountered or if a soil boring was conducted, was there evidence of ground water contamination? Specify, e.g., free product (specify thickness), product sheen, ground water in contact with petroleum contaminated soil, water analytical results, etc. n/a

[Note: If free product was observed, contact MPCA staff immediately as outlined in "Petroleum Tank Release Reports" (Guidance Document 2).]

H. Was bedrock encountered in the excavation: At what depth: n/a

I. Were other unique conditions associated with this site? If so, explain. Existing building located on east side of project site.

V. SAMPLING

A. Briefly describe the field methods (including use of a photoionization detector) used to distinguish contaminated from uncontaminated soil: Samples taken at seventeen locations commencing 6'-0" below surface grade extending to 18'-0" below grade. Organic vapor meter (OVM) used to measure organic vapor in ppm at headspace. Additional samples shipped to independent laboratory (on ice) for analysis.

B. List soil vapor headspace analysis results. Indicate sampling locations using sample codes (with sampling depths in parentheses), e.g. SV-1 (2 feet), SV-2 (10 feet), etc. Samples collected at different depths at the same location should be labeled SV-1A (2 feet), SV-1B (4 feet), SV-1C (6 feet), etc. These should correspond with the codes on the site map in part VI. If the sample represents soil from the final extent of the excavation indicated "bottom" or side-wall" in the bottom/sidewall column.

Sample Code	Soil Type	Reading ppm	Bottom/ Sidewall	Sample Code	Soil Type	Reading ppm	Bottom/ Sidewall
SV-1 (9')	clay	14	sidewall	SV-12 (6')	clay-sand	13.7	sidewall
SV-2 (8')	clay	12.5	sidewall	SV-13 (7')	clay	10.2	sidewall
SV-3 (10')	clay	11.3	sidewall	SV-14 (8')	clay	11.6	sidewall
SV-4 (11')	clay	7.3	sidewall	SV-15 (8')	clay	14.3	sidewall
SV-5 (16')	clay	8.2	bottom	SV-16(14')	clay	4.2	bottom
SV-6 (18')	clay	9.4	bottom	SV-17(15')	clay	3.7	bottom
SV-7 (8')	clay-sand	1.2	sidewall				
SV-8 (7')	clay-sand	1.5	sidewall				

C. Briefly describe the soil sampling and handling procedures used:
The soil samples obtained at the project site were grab samples; sampled in accordance with procedures as outlined in Guidance Document #6, Section IV. The samples were placed on ice for shipment to an independent laboratory for analysis.

D. List the appropriate soil sample analytical results from the bottom and sidewalls of the excavation below (refer to "Soil and Ground Water Analysis at Petroleum Release Sites, " Guidance Document 11). If the petroleum was not gasoline or fuel oil attach appropriate analytical results. Code the samples (with sampling depths in parentheses) SS-1 (8 feet), SS-2 (4 feet), etc. These should correspond with the codes on the site map in part VI. Do not include analyses from the stockpiled soils.

Sample Code	THC as gas or FO ppm circle one	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm
SS-1 (16')	ND	ND	ND	ND	ND	ND	
SS-2 (16')	1.5	ND	ND	ND	ND	ND	5.2
SS-3 (9')	5.7	ND	ND	ND	ND	ND	5.4
SS-4 (14')	ND	ND	ND	ND	ND	ND	4.7
SS-5 (15')	2.9	ND	ND	ND	ND	ND	4.0
SS-6 (6')	ND	ND	ND	ND	ND	ND	6.4
SS-7 (8')	ND	ND	ND	ND	ND	ND	31
SS-8 (10')	10	ND	ND	ND	ND	ND	ND

NOTE: COPIES OF LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS MUST BE INCLUDED.

VI. FIGURES

Attach the following figures to this report:

1. **Site location map.**
2. **Site map(s) drawn to scale illustrating the following:**

   a. **location (of former location) of all present and former tanks, lines, and dispensers;**
   b. **location of other structures (buildings, canopies, etc);**
   c. **adjacent city, township, or county roadways;**
   d. **final extent of excavation; and**
   e. **location of soil vapor analyses (e.g. SV-1), soil samples (e.g., SS-1), and soil borings (e.g. SB-1). Also, attach all boring logs.**
   f. **north arrow and map legend**

VII. SUMMARY

Briefly summarize evidence indicating whether additional investigation is necessary at the site, as discussed in part VI of "Excavation of Petroleum Contaminated Soil" (Guidance Document 6). If no further action is recommended, the MPCA staff will review this report following notification of soil treatment.

No further action recommended.

VIII. SOIL TREATMENT INFORMATION

A. **Soil treatment method used (thermal, land application, other). If you choose "other" specify treatment method:** thermal treatment

B. **Location of treatment site/facility:** CleanSoils, Inc South St Paul, Minnesota

C. **Date MPCA approved soil treatment (if thermal treatment was used after May 1, 1991, indicate date that the MPCA permitted thermal treatment facility agreed to accept soil):** approval pending

D. **Identify the location of any stockpiled contaminated soil:** Stockpiled soil located on the west and south side of property line prior to removal

XI. CONSULTANT (OR OTHER) PREPARING THIS REPORT

Company Name: Kelleher Environmental, Inc
Street/Box: 12252 Nicollet Avenue South
City, Zip: Burnsville, MN 55337
Telephone: 612/890-4846
Contact: Al Burke

Signature: Alan V. Burke **Date:** 12-2-92

If additional investigation is not required at the site, please mail this form and all necessary attachments:

(Project Manager)
Minnesota Pollution Control Agency
Hazardous Waste Division
Tanks and Spills Section
520 Lafayette Road
St Paul, Minnesota 55155

PREVIOUS SOIL EXPLORATION REPORT

SUBSURFACE INVESTIGATION

Q-PETROLEUM CORPORATION
1626 County Road B
Roseville, Minnesota

Submitted to:

Exploration Technology Inc.
1402 Emil Street
P.O. Box 9404
Madison, Wisconsin 53715

Prepared by:

Warzyn Engineering Inc.
715 Florida Ave. So.
Suite 209
Minneapolis, Minnesota 55426

APRIL, 1988

TABLE OF CONTENTS

SECTION 1

PURPOSE AND SCOPE

The purpose of this report is to present the results of the subsurface investigation performed by Exploration Technology, Inc. (ETI) at the Q-Petroleum facility located at 1626 County Road B, Roseville, Minnesota. The investigation was a preliminary investigation to determine whether the underground storage of petroleum products represents an environmental concern or liability. The scope of services at the facility consisted of the following:

1. Performance of four soil borings to depths of 50 feet. Split spoon soil samples were collected at 5 foot intervals and retained for testing. The boring logs are included in Appendix A.

2. The soil samples were screened for total volatile compounds by headspace analysis using a HNu Systems Inc. photoionization unit calibrated to benzene. The screening results are included in Appendix B.

3. A report presenting the data generated during the investigation was prepared.

SECTION 2

RESULTS

2.1 GENERAL

The underground storage tanks at the Q-Petroleum Station at 1626 County Road B, Roseville, Minnesota, as reported on the Minnesota Pollution Control Agency (MPCA) Underground Storage Tank Notification Form consists of two steel tanks coated with asphalt. A 4,000 gallon tank contains leaded (regular) gasoline while a 6,000 gallon tank contains unleaded gasoline. The MPCA's notification form indicated that inventory control is the only leak detection system used and that no leaks have occurred. The tank notification form is included in Appendix D.

2.2 SITE GEOLOGY

The subsoils encountered consist of a silty sand unit, which extended from the ground surface to 50 feet below grade. Interbedded in the silty sand unit are seams of gravel and traces of clay.

2.3 HNu SCREENING RESULTS

HNu readings from the headspace of the soil samples did not yield significant responses. Readings were close to background levels for all samples.

SECTION 3

DISCUSSION

3.1 CONCLUSIONS AND RECOMMENDATIONS

Based on the data obtained during this investigation, there does not appear to be any significant evidence of a petroleum release at this station. To confirm there are no product impacts at this station, any additional borings should be performed directly adjacent to the underground tanks. The installation of several monitoring wells would also be appropriate for long-term groundwater monitoring.

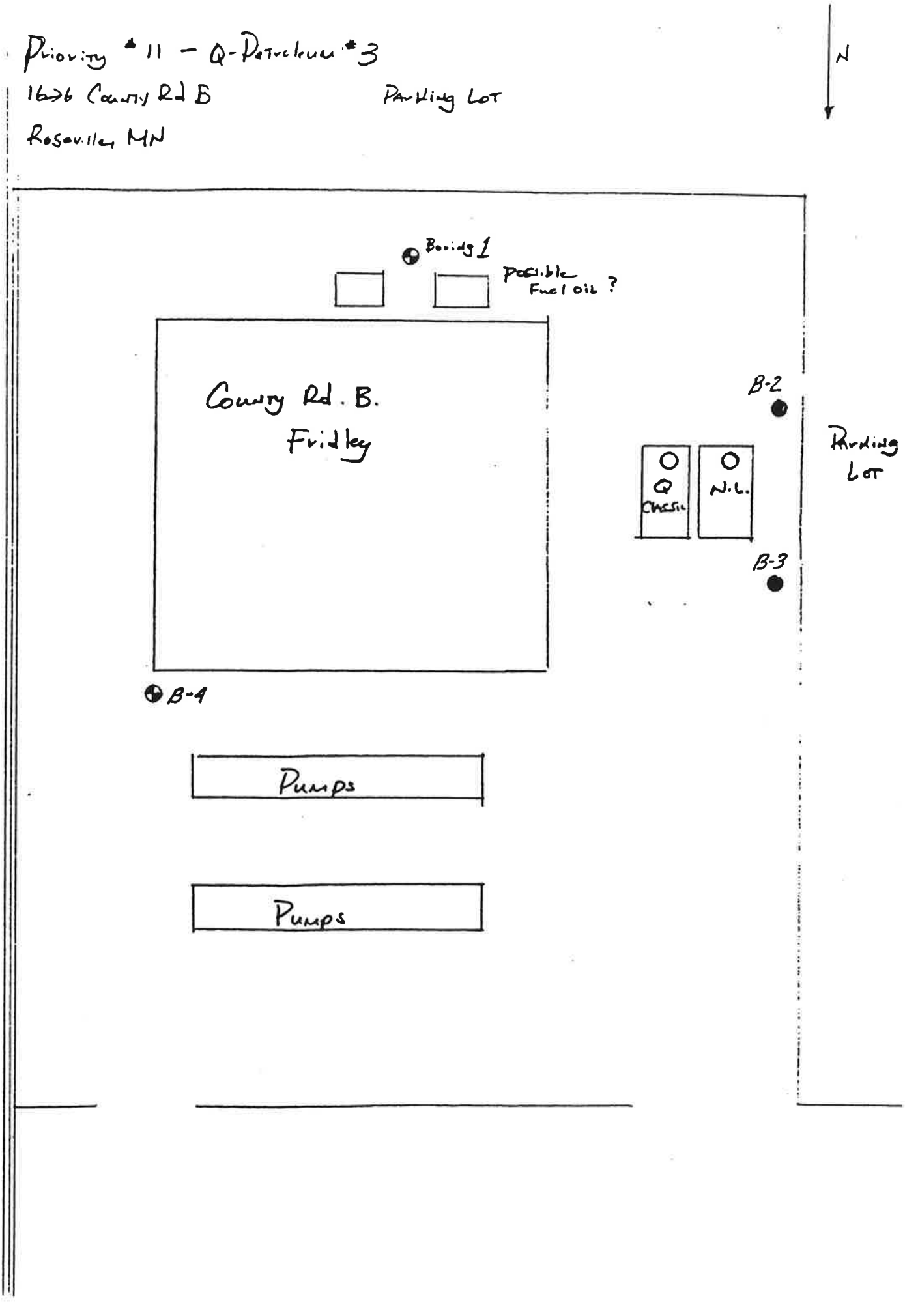
APPENDIX A

BORING LOGS

Priority #11 – Q-Petroleum #3

1636 County Rd B

Roseville MN



EXPLORATION TECHNOLOGY INC.

LOG OF TEST BORING

Project: Q-Petroleum #3
1626 County Rd "B"
Location: Roseville, MN

Boring No. B-1
Surface Elevation:
Job No. 812222-11
Sheet 1 of 2

1402 EMIL STREET • P.O. BOX 9401 MADISON, WIS. 53715 • TEL. (608) 258-9550

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
Recovery			Moisture								
No.	Type	↓	↓	N	Depth		q_u	W	LL	PL	D
						2" Asphalt					
						Brown Silty Medium to Fine SAND, with Little to Some Gravel					
						Black, Fine Silty SAND with Some Gravel					
1	SS	0.2	M	11	5	Brown Fine Clayey, Silty SAND					
2	SS	0.2	M	15	10						
	SS	1.4	M	37	15	Brown Fine to Medium SAND with Little to Some Gravel					
4	SS	1.4	D	40	20	Brown Fine to Coarse SAND and GRAVEL					
5	SS	1.0	M	33	25	Brown Fine Sandy SILT, Trace Clay					
6	SS	1.0	D	50	30	Brown/Red Fine to Coarse SAND with Some Gravel					
7	SS	1.4	D	32	35	Brown/Red Fine to Medium SAND with Little to Some Fine to Medium Gravel					
	SS	1.0	D	54	40						
					45						

(Continued)

EXPLORATION TECHNOLOGY INC.

LOG OF TEST BORING

Project: Q Petroleum
1626 County Rd. "B"
Location: Roseville, MN

Boring No.: B-1
Surface Elevation:
Job No.: 812222-11
Sheet: 2 of 2

1402 EMIL STREET P.O. BOX 9404 MADISON, WI 53715 • TEL (608) 257-4848

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
Recovery			Moisture								
No.	Type	↓	↓	N	Depth		q_u	W	LL	PL	D
9	SS	1.2	D	35		Brown/Red Fine to Medium SAND with Little to Some Fine to Medium Gravel					
10	SS	1.2	D	65	50						
10	SS	1.2	D	65		End Boring at 50'					
					55						
					60						
					65						
					70						
					75						
					80						
					85						

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling
Depth to Water
Depth to Cave In

GENERAL NOTES

Start 3/14/88 Complete 3/14/88
Crew Chief DZ Rig 55-C
Drilling Method 4¼" HSA

EXPLORATION TECHNOLOGY INC.

LOG OF TEST BORING

Project: Q Petroleum
1626 County Rd "B"
Roseville, MN

Location:

Boring No. B-2
Surface Elevation:
Job No. 812222-11
Sheet 1 of 2

1402 EMIL STREET • P.O. BOX 9404 MADISON, WIS. 53715 • TEL • (608) 258-9550

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
Recovery			Moisture								
No.	Type	↓	↓	N	Depth		qu	W	LL	PL	D
						4" Asphalt					
						*					
						Brown/Red Silty CLAY with Little Fine Sand					
1	SS	1.4	M	13	5	Brown/Red Fine to Medium SAND					
2	SS	1.3	M	20	10	Brown Fine to Medium Clayey Silty SAND with Occasional Gravel					
3	SS	0	-	56	15						
4	SS	0.6	D	28	20						
5	SS	0		100	25	Brown/Red Fine to Medium SAND with Little Fine to Medium Gravel					
6	SS	1.3	D	42	30	*Black Fine to Coarse SAND with Some Gravel					
7	SS	1.4	D	46	35						
8	SS	1.3	D	47	40						
9	SS	0.8	D	56	45						

(Continued)

EXPLORATION TECHNOLOGY INC.

LOG OF TEST BORING

Project: Q Petroleum
1626 County Rd "B"
Location: Roseville, MN

Boring No.: B-2
Surface Elevation:
Job No.: 812222-11
Sheet: 2 of 2

1402 EMIL STREET P.O. BOX 9404 MADISON, WI 53715 • TEL (608) 257-4848

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
Recovery			Moisture								
No.	Type	↓	↓	N	Depth		q_u	W	LL	PL	D
						**					
						Brown/Red Fine to Medium SAND					
					50	End Boring at 50'					
					55	**Brown/Red Fine to Medium SAND with Little Fine to Medium Gravel					
					60						
					65						
					70						
					75						
					80						
					85						

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling
Depth to Water
Depth to Cave In

GENERAL NOTES

Start 3/14/88 Complete 3/14/88
Crew Chief DZ Rig 55-C
Drilling Method

EXPLORATION TECHNOLOGY INC.

LOG OF TEST BORING

Project: Q Petroleum
1626 County "B"
Roseville, MN

Location:

Boring No. B-3
Surface Elevation:
Job No. 812222-11
Sheet 1 of 2

1402 EMIL STREET • P.O. BOX 9404 MADISON, WIS. 53715 • TEL • (608) 258-9550

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
		Recovery	Moisture								
No.	Type	↓	↓	N	Depth		q_u	W	LL	PL	D
						4" Asphalt					
						Brown Fine to Medium Clayey Silty SAND with Little Gravel					
1	SS	1.4	M	19	5						
2	SS	1.3	D	36	10	Brown/Red Fine to Medium SAND with Some Gravel					
3	SS	1.4	M	23	15	Brown Fine to Medium Silty SAND, Trace Clay, Occasional Gravel					
4	SS	1.4	D	23	20	Brown/Red Fine to Medium SAND with Little to Some Gravel					
5	SS	1.4	D	38	25						
6	SS	1.4	D	29	30	Brown/Red Fine SAND					
7	SS	1.0	D	40	35						
8	SS	1.0	D	47	40	Brown/Red Fine to Medium SAND with Little to Some Gravel					
9	SS	1.0	D	60	45						

(Continued)

EXPLORATION TECHNOLOGY INC.

LOG OF TEST BORING

Project: Q Petroleum
1626 County "B"
Location: Roseville, MN

Boring No.: B-3
Surface Elevation:
Job No.: 812222-11
Sheet: 2 of 2

1402 EMIL STREET P.O. BOX 9404 MADISON, WI 53715 • TEL (608) 257-4848

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
Recovery			Moisture								
No.	Type	↓	↓	N	Depth		q_u	W	LL	PL	D
						Brown/Red Fine to Medium SAND with Little to Some Gravel					
10	SS	1.0	D	56	50	End Boring at 50'					
					55						
					60						
					65						
					70						
					75						
					80						
					85						

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling
Depth to Water
Depth to Cave In

GENERAL NOTES

Start 3/13/88 Complete 3/13/88
Crew Chief DZ Rig 55-C
Drilling Method 4¼" HSA

EXPLORATION TECHNOLOGY INC.

LOG OF TEST BORING

Project: Q Petroleum
1626 County "B"
Location: Roseville, MN

Boring No. B-4
Surface Elevation
Job No. 812222-11
Sheet 1 of 2

1402 EMIL STREET • P.O. BOX 9404 MADISON, WIS. 53715 • TEL. (608) 258-9550

SAMPLE No.	Type	Recovery ↓	Moisture ↓	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu	W	LL	PL	D
						Asphalt					
						Brown Silty CLAY with Little Fine to Medium Sand and Gravel					
1	SS	1.4	M	9	5						
						Brown/Red Fine to Medium Silty SAND					
2	SS	1.3	D	46	10						
	SS	1.3	D	36	15	Brown Fine Silty SAND, Trace Clay with Occasional Gravel					
4	SS	1.0	D	41	20						
5	SS	1.0	D	57	25	Brown/Red Fine to Medium SAND with Little to Some Gravel					
6	SS	1.0	D	51	30						
7	SS	1.0	D	47	35						
	SS	1.0	D	80	40						
9	SS	1.0	D	74	45						

EXPLORATION TECHNOLOGY INC.

LOG OF TEST BORING

Project: Q Petroleum
1626 County "B"
Location: Roseville, MN

Boring No. B-4
Surface Elevation
Job No. 812222-11
Sheet 2 of 2

1402 EMIL STREET P.O. BOX 9404 MADISON, WI 53715 • TEL (608) 257-4848

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
Recovery			Moisture								
No.	Type	↓	↓	N	Depth		q_u	W	LL	PL	D
						Brown/Red Fine to Medium SAND with Little to Some Gravel					
10	SS	1.0	D	52	50	Brown Fine SAND					
						End Boring at 50'					
					55						
					60						
					65						
					70						
					75						
					80						
					85						

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling
Depth to Water
Depth to Cave In

GENERAL NOTES

Start 3/15/88 Complete 3/15/88
Crew Chief DZ Rig 55-C
Drilling Method 4¼" HSA

APPENDIX B

HNu Screening Results

Q - PETROLEUM CORPORATION
1626 COUNTY ROAD B, ROSEVILLE, MN
HNu METER: WEI #4

WELL DESIGNATION AND SAMPLE NUMBER	DATE SAMPLED	DEPTH (feet)	READING (ppm)	BACKGROUND READING (ppm)
AB-1 (1)	No Recovery	5		0.2
AB-1 (2)	3/16/88	10	0.2	0.2
AB-1 (3)	3/16/88	15	0.2	0.2
AB-1 (4)	3/16/88	20	0.4	0.2
ABP- (5)	3/16/88	25	0.2	0.2
AB-1 (6)	3/16/88	30	0.2	0.2
AB-1 (7)	3/16/88	35	0.2	0.2
AB-1 (8)	3/16/88	40	0.2	0.2
AB-1 (9)	3/16/88	45	0.4	0.2
AB-1 (10)	3/16/88	50	0.2	0.2
AB-2 (1)	3/16/88	5	0.2	0.2
AB-2 (2)	3/16/88	10	0.2	0.2
AB-2 (3)	No Recovery	15		0.2
AB-2 (4)	3/16/88	20	0.2	0.2
AB-2 (5)	No Recovery	25		0.2
AB-2 (6)	3/16/88	30	0.2	0.2
AB-2 (7)	3/16/88	35	0.2	0.2
AB-2 (8)	3/16/88	40	0.2	0.2
AB-2 (9)	3/16/88	45	0.2	0.2
AB-2 (10)	3/16/88	50	0.2	0.2
AB-3 (1)	3/16/88	5	0.2	0.2
AB-3 (2)	3/16/88	10	0.2	0.2
AB-3 (3)	3/16/88	15	0.2	0.2
AB-3 (4)	3/16/88	20	0.2	0.2
AB-3 (5)	3/16/88	25	0.2	0.2
AB-3 (6)	3/16/88	30	0.2	0.2
AB-3 (7)	3/16/88	35	0.2	0.2
AB-3 (8)	3/16/88	40	0.2	0.2
AB-3 (9)	3/16/88	45	0.2	0.2
AB-3 (10)	3/16/88	50	0.2	0.2
AB-4 (1)	3/16/88	5	0.2	0.2
AB-4 (2)	3/16/88	10	0.2	0.2
AB-4 (3)	3/16/88	15	0.2	0.2
AB-4 (4)	3/16/88	20	0.2	0.2
AB-4 (5)	3/16/88	25	0.2	0.2
AB-4 (6)	3/16/88	30	0.4	0.2
AB-4 (7)	3/16/88	35	0.4	0.2
AB-4 (8)	3/16/88	40	0.4	0.2
AB-4 (9)	3/16/88	45	0.4	0.2
AB-4 (10)	3/16/88	50	0.4	0.2

APPENDIX C

MPCA'S TANK NOTIFICATION FORM

Minnesota Pollution Control Agency
Solid and Hazardous Waste Division
1935 West County Road B2
Roseville, Minnesota 55113

(3)

UNDERGROUND STORAGE TANK NOTIFICATION FORM

(Read instructions on reverse side)

EPA Use: # 11

MPCA Use:

Transaction Type(s)

A.
- [X] Notification
- [ ] Change in Status
- [ ] Data Correction

Type of Installation; if federal facility, give GSA#; if industry, give SIC code.

B.
- [ ] Bulk Storage
- [X] Service Station
- [ ] Utility
- [ ] Industry
- [ ] Agricultural
- [ ] Residential
- [ ] Government
- [ ] Other (Specify)

GSA/SIC

C. Name of Installation: Q Petroleum

Street Address: 1216 W. Co. Rd. B.

City: Roseville MN. County: Ramsey

Zip Code: 55113 Phone (include area code): (612) 631-0197

Township	Range	Section	Quarter	Quarter	Quarter	Quarter

D. Name of Owner (Corporation, Individual, or Agency): Q Petroleum (lessee)

Mailing Address: 8148 Pillsbury ave. S.

City: Mpls State: MN. Zip Code: 55420

Name of Emergency Contact (if different from owner): Randy Kenny

Owner Phone (include area code): (612) 881-4483 Emergency Phone (include area code): ( ) Same

E. Use code numbers listed on reverse side for items marked with *.

1. Action*	2. Tank Number	3. Status*	4. Date Installed, Repaired, or Reconditioned (mm/dd/yy)	5. Date Last Used (mm/dd/yy)	6. Capacity (gallons)	7. Type*	8. Internal Protection*	9. External Protection*	10. Secondary Containment*	11. Piping Type*	12. Dispenser Type*	13. Substance Stored*	(Specify)	14. Quantity Left Stored (gallons)
1	101	3	000000	111111	004000	3	2	5	5	2	1	1		1111
1	102	3	000000	111111	006000	3	2	5	5	2	1	2		1111

16. Leak Detection*	* Monitoring Pts.	16. Date of Last Tank Test (mm/dd/yy)	Test Method*	17. Past Leak?*	18. Remedial Action*	19. Amount Lost (gallons)
1	6	000000	N	4		0
1	6	000000	N	4		0

F. Comments:

G. Under penalty of perjury, to the best of my knowledge, I certify that the information provided is true & correct.

Printed Name: Randy Kenny Title: Maintenance S.

Signature: Q Petroleum Date: 1-31-86

PQ-00410-01 (7/85)

LABORATORY REPORT

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Kelleher Environmental Inc.
12252 Nicollet Avenue South
Burnsville, MN 55337

October 06, 1992
PACE Project Number: 920902531

Attn: Mr. Al Burke

Client Reference: Total Petroleum

Parameter	Units	MDL			
PACE Sample Number:			10 0255815	10 0255823	10 0255831
Date Collected:			08/28/92	08/28/92	08/28/92
Date Received:			09/01/92	09/01/92	09/01/92
Client Sample ID:			BT 6000	BT 4000	ESW #1
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead	mg/kg	2.5	-	5.2	5.4
ORGANIC ANALYSIS					
VOLATILE PETROLEUM RELATED COMPOUNDS					
Date Analyzed			I 9/10/92	I 9/10/92	I 9/10/92
Benzene	mg/kg	0.10	ND	ND	ND
Toluene	mg/kg	0.10	ND	ND	ND
Ethyl benzene	mg/kg	0.10	ND	ND	ND
Xylene	mg/kg	0.20	ND	ND	0.21
Total Hydrocarbons as gasoline	mg/kg	1.0	ND	1.5	5.7
Methyl tert-butyl ether	mg/kg	0.40	ND	ND	ND
Fluorobenzene (Surrogate)	%		112	110	112

1710 Douglas Drive North
Minneapolis, MN 55422
TEL: 612-544-5543
FAX: 612-525-3377

REPORT OF LABORATORY ANALYSIS

October 06, 1992
PACE Project Number: 920902531

Client Reference: Total Petroleum

Parameter	Units	MDL	10 0255840 08/28/92 09/01/92 BNI	10 0255858 08/28/92 09/01/92 BSI	10 0255866 08/28/92 09/01/92 PT
PACE Sample Number:					
Date Collected:					
Date Received:					
Client Sample ID:					
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead	mg/kg	2.5	4.7	4.0	6.4
ORGANIC ANALYSIS					
VOLATILE PETROLEUM RELATED COMPOUNDS					
Date Analyzed			I 9/10/92	I 9/10/92	I 9/10/92
Benzene	mg/kg	0.10	ND	ND	ND
Toluene	mg/kg	0.10	ND	ND	ND
Ethyl benzene	mg/kg	0.10	ND	ND	ND
Xylene	mg/kg	0.20	ND	ND	ND
Total Hydrocarbons as gasoline	mg/kg	1.0	ND	2.9	ND
Methyl tert-butyl ether	mg/kg	0.40	ND	ND	ND
Fluorobenzene (Surrogate)	%		111	109	114

1710 Douglas Drive North
Minneapolis, MN 55422
TEL: 612-544-5543
FAX: 612-525-3377

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 3

October 06, 1992
PACE Project Number: 920902531

Client Reference: Total Petroleum

Parameter	Units	MDL	10 0255874 SP 1	10 0255882 SP 2	10 0255939 SPO 1230
PACE Sample Number:					
Date Collected:			08/31/92	08/31/92	08/31/92
Date Received:			09/01/92	09/01/92	09/02/92
Client Sample ID:					
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Lead	mg/kg	2.5	5.8	31	-
Mercury	mg/kg	0.02	-	-	ND
RCRA TOXICITY METALS					
Arsenic	mg/kg	8.0	-	-	ND
Barium	mg/kg	0.5	-	-	75
Cadmium	mg/kg	0.5	-	-	0.6
Chromium	mg/kg	0.5	-	-	13
Lead	mg/kg	2.5	-	-	77
Selenium	mg/kg	4.0	-	-	ND
Silver	mg/kg	0.5	-	-	ND
ORGANIC ANALYSIS					
VOLATILE PETROLEUM RELATED COMPOUNDS					
Date Analyzed			E 9/12/92	E 9/12/92	-
Benzene	mg/kg	1.0	-	ND	-
Benzene	mg/kg	2.0	ND	-	-
Toluene	mg/kg	1.0	-	4.0	-
Toluene	mg/kg	2.0	ND	-	-
Ethyl benzene	mg/kg	1.0	-	7.5	-
Ethyl benzene	mg/kg	2.0	ND	-	-
Xylene	mg/kg	2.0	-	130	-
Xylene	mg/kg	4.0	1200	-	-
Total Hydrocarbons as gasoline	mg/kg	10	-	3200	-
Total Hydrocarbons as gasoline	mg/kg	20	2500	-	-
Methyl tert-butyl ether	mg/kg	4.0	-	ND	-
Methyl tert-butyl ether	mg/kg	8.0	ND	-	-
Fluorobenzene (Surrogate)	%		109	106	-
MDH VOLATILE ORGANICS - 465D SOIL					HB
Date Analyzed			-	-	L 09/09/92
Dichlorodifluoromethane	ug/kg	190	-	-	ND

1710 Douglas Drive North
Minneapolis, MN 55422
TEL: 612-544-5543
FAX: 612-525-3377

Mr. Al Burke
Page 4

October 06, 1992
PACE Project Number: 920902531

Client Reference: Total Petroleum

Parameter	Units	MDL	10 0255874 SP 1	10 0255882 SP 2	10 0255939 SPO 1230
PACE Sample Number:			10 0255874	10 0255882	10 0255939
Date Collected:			08/31/92	08/31/92	08/31/92
Date Received:			09/01/92	09/01/92	09/02/92
Client Sample ID:			SP 1	SP 2	SPO 1230
ORGANIC ANALYSIS					
MDH VOLATILE ORGANICS - 465D SOIL					HB
Chloromethane	ug/kg	190	-	-	ND
Vinyl Chloride	ug/kg	190	-	-	ND
Bromomethane	ug/kg	190	-	-	ND
Chloroethane	ug/kg	120	-	-	ND
Dichlorofluoromethane	ug/kg	120	-	-	ND
Trichlorofluoromethane	ug/kg	62	-	-	ND
Ethyl ether	ug/kg	620	-	-	ND
1,1,2-Trichlorotrifluoroethane	ug/kg	120	-	-	ND
Acetone	ug/kg	5000	-	-	ND
1,1-Dichloroethylene	ug/kg	62	-	-	ND
Allyl chloride	ug/kg	250	-	-	ND
Methylene Chloride	ug/kg	120	-	-	ND
Methyl tert-Butyl Ether	ug/kg	500	-	-	ND
trans-1,2-Dichloroethylene	ug/kg	62	-	-	ND
1,1-Dichloroethane	ug/kg	62	-	-	ND
Methyl ethyl ketone	ug/kg	3100	-	-	ND
2,2-Dichloropropane	ug/kg	62	-	-	ND
cis-1,2-Dichloroethylene	ug/kg	62	-	-	ND
Chloroform	ug/kg	62	-	-	ND
Bromochloromethane	ug/kg	120	-	-	ND
Tetrahydrofuran	ug/kg	2500	-	-	ND
1,1,1-Trichloroethane	ug/kg	62	-	-	ND
1,1-Dichloropropene	ug/kg	120	-	-	ND
Carbon Tetrachloride	ug/kg	62	-	-	ND
Benzene	ug/kg	62	-	-	ND
1,2-Dichloroethane	ug/kg	62	-	-	ND
1,2-Dichloropropane	ug/kg	62	-	-	ND
1,1,2-Trichloroethylene	ug/kg	62	-	-	ND
Dibromomethane	ug/kg	190	-	-	ND
Bromodichloromethane	ug/kg	62	-	-	ND
Methyl isobutyl ketone	ug/kg	1000	-	-	ND

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 5

October 06, 1992
PACE Project Number: 920902531

Client Reference: Total Petroleum

Parameter	Units	MDL			
PACE Sample Number:			10 0255874	10 0255882	10 0255939
Date Collected:			08/31/92	08/31/92	08/31/92
Date Received:			09/01/92	09/01/92	09/02/92
Client Sample ID:			SP 1	SP 2	SPO 1230
ORGANIC ANALYSIS					
MDH VOLATILE ORGANICS - 465D SOIL					HB
cis-1,3-Dichloro-1-propene	ug/kg	62	-	-	ND
Toluene	ug/kg	100	-	-	ND
trans-1,3-Dichloro-1-propene	ug/kg	62	-	-	ND
1,1,2-Trichloroethylene	ug/kg	62	-	-	ND
1,3-Dichloropropane	ug/kg	100	-	-	ND
1,1,2,2-Tetrachloroethylene	ug/kg	120	-	-	ND
Dibromochloromethane	ug/kg	120	-	-	ND
1,2-Dibromoethane	ug/kg	500	-	-	ND
Chlorobenzene	ug/kg	100	-	-	ND
1,1,1,2-Tetrachloroethane	ug/kg	62	-	-	ND
Ethyl benzene	ug/kg	100	-	-	630
m-Xylene	ug/kg	100	-	-	310 EL
p-Xylene	ug/kg	100	-	-	310 EL
o-Xylene	ug/kg	100	-	-	1300
Styrene	ug/kg	100	-	-	ND
Bromoform	ug/kg	120	-	-	ND
Cumene	ug/kg	120	-	-	690
1,1,2,2-Tetrachloroethylene	ug/kg	120	-	-	ND
1,2,3-Trichloropropane	ug/kg	500	-	-	ND
Bromobenzene	ug/kg	120	-	-	ND
n-Propylbenzene	ug/kg	120	-	-	ND
2-Chlorotoluene	ug/kg	120	-	-	ND
1,3,5-Trimethylbenzene	ug/kg	100	-	-	3000
4-Chlorotoluene	ug/kg	190	-	-	ND
tert-Butylbenzene	ug/kg	100	-	-	4400
1,2,4-Trimethylbenzene	ug/kg	100	-	-	3400
sec-Butylbenzene	ug/kg	120	-	-	2100
p-Cymene	ug/kg	120	-	-	ND
1,3-Dichlorobenzene	ug/kg	120	-	-	ND
1,4-Dichlorobenzene	ug/kg	120	-	-	ND
n-Butylbenzene	ug/kg	150	-	-	ND

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 6

October 06, 1992
PACE Project Number: 920902531

Client Reference: Total Petroleum

Parameter	Units	MDL	10 0255874 08/31/92 09/01/92 SP 1	10 0255882 08/31/92 09/01/92 SP 2	10 0255939 08/31/92 09/02/92 SPO 1230
PACE Sample Number:					
Date Collected:					
Date Received:					
Client Sample ID:					
ORGANIC ANALYSIS					
MDH VOLATILE ORGANICS - 465D SOIL					HB
1,2-Dichlorobenzene	ug/kg	120	-	-	ND
1,2-Dibromo-3-chloropropane	ug/kg	100	-	-	ND
1,2,4-Trichlorobenzene	ug/kg	150	-	-	ND
Hexachlorobutadiene	ug/kg	250	-	-	ND
Naphthalene	ug/kg	150	-	-	5400
1,2,3-Trichlorobenzene	ug/kg	150	-	-	ND
Fluorobenzene (Surrogate)	%		-	-	84.1
HEXANE EXTRACT PETROLEUM PRODUCTS SOIL					
Date Analyzed			-	-	X:09/15/92
Date Extracted			-	-	09/09/92
Fuel oil #1	mg/kg	3.3	-	-	ND
Fuel oil #2	mg/kg	3.3	-	-	1300 → TPH
Pentacosane (Surrogate Std.)	%		-	-	101
PCBS IN SOIL (METHOD 8080)					
Date Analyzed			-	-	G 9-23-92
Date Extracted			-	-	090992
PCB-1016	mg/kg	1.0	-	-	ND
PCB-1221	mg/kg	1.0	-	-	ND
PCB-1232	mg/kg	1.0	-	-	ND
PCB-1242	mg/kg	1.0	-	-	ND
PCB-1248	mg/kg	1.0	-	-	ND
PCB-1254	mg/kg	1.0	-	-	ND
PCB-1260	mg/kg	1.0	-	-	ND
TCMX	%		-	-	108
DCB	%		-	-	127

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 7

October 06, 1992
PACE Project Number: 920902531

Client Reference: Total Petroleum

Parameter	Units	MDL	10 0255947 08/28/92 09/02/92 BTUO	10 0255955 08/28/92 09/02/92 DTHO	10 0255963 08/28/92 09/02/92 SPO 1245
PACE Sample Number:					
Date Collected:					
Date Received:					
Client Sample ID:					
INORGANIC ANALYSIS					
INDIVIDUAL PARAMETERS					
Mercury	mg/kg	0.02	ND	-	ND
RCRA TOXICITY METALS					
Arsenic	mg/kg	8.0	8.0	-	ND
Barium	mg/kg	0.5	50	-	51
Cadmium	mg/kg	0.5	0.5	-	ND
Chromium	mg/kg	0.5	22	-	11
Lead	mg/kg	2.5	31	-	23
Selenium	mg/kg	4.0	4.9	-	ND
Silver	mg/kg	0.5	ND	-	ND
ORGANIC ANALYSIS					
MDH VOLATILE ORGANICS - 465D SOIL					HB
Date Analyzed			-	-	L 09/09/92
Dichlorodifluoromethane	ug/kg	190	-	-	ND
Chloromethane	ug/kg	190	-	-	ND
Vinyl Chloride	ug/kg	190	-	-	ND
Bromomethane	ug/kg	190	-	-	ND
Chloroethane	ug/kg	120	-	-	ND
Dichlorofluoromethane	ug/kg	120	-	-	ND
Trichlorofluoromethane	ug/kg	62	-	-	ND
Ethyl ether	ug/kg	620	-	-	ND
1,1,2-Trichlorotrifluoroethane	ug/kg	120	-	-	ND
Acetone	ug/kg	5000	-	-	ND
1,1-Dichloroethylene	ug/kg	62	-	-	ND
Allyl chloride	ug/kg	250	-	-	ND
Methylene Chloride	ug/kg	120	-	-	ND
Methyl tert-Butyl Ether	ug/kg	500	-	-	ND
trans-1,2-Dichloroethylene	ug/kg	62	-	-	ND
1,1-Dichloroethane	ug/kg	62	-	-	ND
Methyl ethyl ketone	ug/kg	3100	-	-	ND
2,2-Dichloropropane	ug/kg	62	-	-	ND

Mr. Al Burke
Page 8

October 06, 1992
PACE Project Number: 920902531

Client Reference: Total Petroleum

Parameter	Units	MDL	10 0255947 BTUO	10 0255955 DTHO	10 0255963 SPO 1245
PACE Sample Number:					
Date Collected:			08/28/92	08/28/92	08/28/92
Date Received:			09/02/92	09/02/92	09/02/92
Client Sample ID:					
ORGANIC ANALYSIS					
MDH VOLATILE ORGANICS - 465D SOIL					HB
cis-1,2-Dichloroethylene	ug/kg	62	-	-	ND
Chloroform	ug/kg	62	-	-	ND
Bromochloromethane	ug/kg	120	-	-	ND
Tetrahydrofuran	ug/kg	2500	-	-	ND
1,1,1-Trichloroethane	ug/kg	62	-	-	ND
1,1-Dichloropropene	ug/kg	120	-	-	ND
Carbon Tetrachloride	ug/kg	62	-	-	ND
Benzene	ug/kg	62	-	-	ND
1,2-Dichloroethane	ug/kg	62	-	-	ND
1,2-Dichloropropane	ug/kg	62	-	-	ND
1,1,2-Trichloroethylene	ug/kg	62	-	-	ND
Dibromomethane	ug/kg	190	-	-	ND
Bromodichloromethane	ug/kg	62	-	-	ND
Methyl isobutyl ketone	ug/kg	1000	-	-	ND
cis-1,3-Dichloro-1-propene	ug/kg	62	-	-	ND
Toluene	ug/kg	100	-	-	ND
trans-1,3-Dichloro-1-propene	ug/kg	62	-	-	ND
1,1,2-Trichloroethylene	ug/kg	62	-	-	ND
1,3-Dichloropropane	ug/kg	100	-	-	ND
1,1,2,2-Tetrachloroethylene	ug/kg	120	-	-	ND
Dibromochloromethane	ug/kg	120	-	-	ND
1,2-Dibromoethane	ug/kg	500	-	-	ND
Chlorobenzene	ug/kg	100	-	-	ND
1,1,1,2-Tetrachloroethane	ug/kg	62	-	-	ND
Ethyl benzene	ug/kg	100	-	-	ND
m-Xylene	ug/kg	100	-	-	ND
p-Xylene	ug/kg	100	-	-	ND
o-Xylene	ug/kg	100	-	-	ND
Styrene	ug/kg	100	-	-	ND
Bromoform	ug/kg	120	-	-	ND
Cumene	ug/kg	120	-	-	ND

Mr. Al Burke
Page 9

October 06, 1992
PACE Project Number: 920902531

Client Reference: Total Petroleum

Parameter	Units	MDL			
PACE Sample Number:			10 0255947	10 0255955	10 0255963
Date Collected:			08/28/92	08/28/92	08/28/92
Date Received:			09/02/92	09/02/92	09/02/92
Client Sample ID:			BTUO	DTHO	SPO 1245
ORGANIC ANALYSIS					
MDH VOLATILE ORGANICS - 465D SOIL					HB
1,1,2,2-Tetrachloroethylene	ug/kg	120	-	-	ND
1,2,3-Trichloropropane	ug/kg	500	-	-	ND
Bromobenzene	ug/kg	120	-	-	ND
n-Propylbenzene	ug/kg	120	-	-	ND
2-Chlorotoluene	ug/kg	120	-	-	ND
1,3,5-Trimethylbenzene	ug/kg	100	-	-	ND
4-Chlorotoluene	ug/kg	190	-	-	ND
tert-Butylbenzene	ug/kg	100	-	-	ND
1,2,4-Trimethylbenzene	ug/kg	100	-	-	ND
sec-Butylbenzene	ug/kg	120	-	-	ND
p-Cymene	ug/kg	120	-	-	ND
1,3-Dichlorobenzene	ug/kg	120	-	-	ND
1,4-Dichlorobenzene	ug/kg	120	-	-	ND
n-Butylbenzene	ug/kg	150	-	-	ND
1,2-Dichlorobenzene	ug/kg	120	-	-	ND
1,2-Dibromo-3-chloropropane	ug/kg	100	-	-	ND
1,2,4-Trichlorobenzene	ug/kg	150	-	-	ND
Hexachlorobutadiene	ug/kg	250	-	-	ND
Naphthalene	ug/kg	150	-	-	ND
1,2,3-Trichlorobenzene	ug/kg	150	-	-	ND
Fluorobenzene (Surrogate)	%		-	-	88.6
HEXANE EXTRACT PETROLEUM PRODUCTS SOIL					
Date Analyzed			-	X:09/15/92	X:09/15/92
Date Extracted			-	09/09/92	09/09/92
Fuel oil #1	mg/kg	3.3	-	ND	ND
Fuel oil #2	mg/kg	3.3	-	ND	180
Total Petroleum Hydrocarbons	mg/kg	3.3	-	10	-
Pentacosane (Surrogate Std.)	%		-	99.8	100
PCBS IN SOIL (METHOD 8080)					
Date Analyzed			ND IS	-	G 9-22-92
Date Extracted			ND	-	090992

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Al Burke
Page 10

October 06, 1992
PACE Project Number: 920902531

Client Reference: Total Petroleum

Parameter	Units	MDL	10 0255947 BTUO	10 0255955 DTHO	10 0255963 SPO 1245
PACE Sample Number:					
Date Collected:			08/28/92	08/28/92	08/28/92
Date Received:			09/02/92	09/02/92	09/02/92
Client Sample ID:					
ORGANIC ANALYSIS					
PCBS IN SOIL (METHOD 8080)					
PCB-1016	mg/kg	1.0	ND	-	ND
PCB-1221	mg/kg	1.0	ND	-	ND
PCB-1232	mg/kg	1.0	ND	-	ND
PCB-1242	mg/kg	1.0	ND	-	ND
PCB-1248	mg/kg	1.0	ND	-	ND
PCB-1254	mg/kg	1.0	ND	-	ND
PCB-1260	mg/kg	1.0	ND	-	ND
TCMX	%		ND	-	98.8
DCB	%		ND	-	109

These data have been reviewed and are approved for release.

W. C. Houck

William C. Houck
Project Manager

1710 Douglas Drive North
Minneapolis, MN 55422
TEL: 612-544-5543
FAX: 612-525-3377

Client Reference: Total Petroleum

EL	These compounds co-elute.
HB	High boiling point hydrocarbons are present in sample.
IS	Insufficient sample volume received.
MDL	Method Detection Limit
ND	Not detected at or above the MDL.

1710 Douglas Drive North
Minneapolis, MN 55422
TEL: 612-544-5543
FAX: 612-525-3377

Kelleher

CHAIN OF CUSTODY RECORD

PROJECT NAME	TOTAL PETROLEUM					NUMBER OF CONTAINERS	REQUESTED ANALYSIS					COMMENTS
PROJECT #							BTEX	TPH-GAS	MTBE	LEAD TOTAL		
SAMPLER NAME	Alvin Sauber											
SAMPLER SIGNATURE												
Station#	Date	Time	Comp	Grab	Location							
BT 6000	8/28/92	11:15		✓		1	✓	✓	✓			Bottom Tank 6000
BT 4000	8/28/92	11:45		✓		1	✓	✓	✓	✓		Bottom Tank 4000 1
BT 4000	8/28/92	11:45		✓		1	✓	✓	✓	✓		Bottom Tank 4000 2
ESW #1	8/28/92	12:00		✓		1	✓	✓	✓	✓		East Side Wall 4000 1
ESW #2	8/28/92	12:00		✓		1	✓	✓	✓	✓		East Side Wall 4000 2

25405.3
25406.1
25407.1
25408.1
25409.1

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	9/1/92	12:10					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Date	Received for Laboratory by: (Signature)	Date	Time	Remarks:	

Kelleher Environmental, Inc.
12252 Nicollet Avenue South Burnsville, Minnesota 55337
(612) 890-4846 (800)-553-2648
Fax: (612) 890-5521

Kelleher

CHAIN OF CUSTODY RECORD

PROJECT NAME: Total Petroleum

PROJECT #:

SAMPLER NAME: Alvin Haugen

SAMPLER SIGNATURE: Alvin Haugen

Station#	Date	Time P.M.	Comp	Grab	Location	NUMBER OF CONTAINERS	REQUESTED ANALYSIS: BTEX	TPH - GAS	MTBE	TPH - Diesel		COMMENTS
B.N.I	8/24/92	2:30		✓			✓	✓	✓	✓		Bottom North Island 25'11".2
B.S.I	8/24/92	2:40		✓			✓	✓	✓	✓		Bottom South Island 25'15.0
P.T	8/24/92	2:50		✓			✓	✓	✓	✓		Piping Trench. 25'16.9
S.P.	8/31/92	12:45		✓			✓	✓	✓	✓		Stock pile - Tank - Islands 25'17.7
S.P.	8/31/92	12:45		✓			✓	✓	✓	✓		Stock Pile Tank Islands 25'18.5'

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	9/1/92	12:10					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Date	Received for Laboratory by: (Signature)	Date	Time	Remarks:	

Kelleher Environmental, Inc.
12252 Nicollet Avenue South Burnsville, Minnesota 55337
(612) 890-4846 (800)-553-2648
Fax: (612) 890-5521

97-CAL.580

Kelleher

CHAIN OF CUSTODY RECORD

PROJECT NAME: TOTAL Petroleum.

PROJECT #:

SAMPLER NAME: Alvin Haugen

SAMPLER SIGNATURE: Alvin Haugen

Station#	Date	Time	Comp	Grab	Location	NUMBER OF CONTAINERS	REQUESTED ANALYSIS: VOC's	TPH- Fuel oil.	METALS	PCB's: EPA 8080	COMMENTS
S.P.O.	8/31/92			✓			✓	✓	[redacted]	[redacted]	Stock Pile. Oils 25410.0
B.T.U2	8/28/92		✓	[redacted]			[redacted]	[redacted]	✓	✓	Bottom Tank Used oil. 25411.8
D.T.H0	8/28/92			✓			✓	✓			Bottom Tank. Heating Oil 25412.6
S.P.O.	8/31/92		✓						✓	✓	Stock. Pile Oils. 25413.4

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Alvin Haugen	9/1/92	12:10	Paul K. Lamm				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Paul K. Lamm							
Relinquished by: (Signature)	Date	Date	Received for Laboratory by: (Signature)	Date	Time	Remarks:	

Kelleher Environmental, Inc.
12252 Nicollet Avenue South Burnsville, Minnesota 55337
(612) 890-4846 (800)-553-2648
Fax: (612) 890-5521

Kelleher

CHAIN OF CUSTODY RECORD

PROJECT NAME: TOTAL Petroleum

PROJECT #:

SAMPLER NAME: Alvin Haugen

SAMPLER SIGNATURE: Alvin Haugen

Station#	Date	Time	Comp	Grab	Location	NUMBER OF CONTAINERS	REQUESTED ANALYSIS: VOC's 8265	TPH - Fuel oil	METALS	PCB's: EPA 8080	COMMENTS
											920902.532
S.P.O.	8/31/92			✓		25593.9	✓	✓	■	■	Stock Pile Oils - 12:30
B.T. Oil	8/28/92		✓	■		25594.7	■	■	✓	✓	Bottom Tank Used oil
D.T. Ho	8/28/92			✓	Ignore	25595.5	✓	✓			Bottom Tank Heating Oil (No VOC)
S.P.O.	8/31/92		✓			25596.3			✓	✓	Stock Pile Oils - 12:45
											Stockpile 12:30 12:45

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Alvin Haugen	9/1/92	1230					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Date	Received for Laboratory by: (Signature)	Date	Time	Remarks:	

2 samples Not 4 go by time

2nd project

Kelleher Environmental, Inc.
12252 Nicollet Avenue South Burnsville, Minnesota 55337
(612) 890-4846 (800)-553-2648
Fax: (612) 890-5521

Kelleher

125434

CHAIN OF CUSTODY RECORD

PROJECT NAME: TOTAL PETROLEUM

PROJECT #:

SAMPLER NAME: Alvin Dauben

SAMPLER SIGNATURE: Alvin Dauben

Station#	Date	Time	Comp	Grab	Location	NUMBER OF CONTAINERS	REQUESTED ANALYSIS: BTEX	TPH-GAS	MTBE	LEAD TOTAL.		COMMENTS
												920902.531
BT 6000	8/28/92	11:15		✓	25581.5	1	✓	✓	✓			Bottom Tank 6000
BT 4000	8/28/92	11:45		✓	25582.3	1	✓	✓	✓	✓		Bottom Tank 4,000 1
~~BT 4000~~	~~8/28/92~~	~~11:47~~		✓		1	✓	✓	✓	✓		~~Bottom Tank 4,000~~ 2 — Same
ESW #1	8/28/92	12:00		✓	25583.1	1	✓	✓	✓	✓		East Side Wall 4000 1
~~ESW #2~~	~~8/28/92~~	~~12:00~~		✓		1	✓	✓	✓	✓		~~East Side Wall 4000~~ 2 — Same
												Short containers pb

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	9/1/92	12:10					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Date	Received for Laboratory by: (Signature)	Date	Time	Remarks:	

1 sample

1 sample

1 sample

1st project

Kelleher Environmental, Inc.
12252 Nicollet Avenue South Burnsville, Minnesota 55337
(612) 890-4846 (800)-553-2648
Fax: (612) 890-5521

Kelleher

CHAIN OF CUSTODY RECORD

PROJECT NAME: Total Petroleum

PROJECT #:

SAMPLER NAME: Alvin Hamblen

SAMPLER SIGNATURE: Alvin Hamblen

Station#	Date	Time P.M.	Comp	Grab	Location	NUMBER OF CONTAINERS	REQUESTED ANALYSIS: BTEX	TPH - GAS	MTBE	TPH - Diesel		COMMENTS
B.N.I.	9/24/92	2:30		✓	25584.0		✓	✓	✓	✓		Bottom North Island
B.S.I.	9/23/92	2:40		✓	25585.8		✓	✓	✓	✓		Bottom South Island
P.T.	9/23/92	2:50		✓	25586.6		✓	✓	✓	✓		Piping Trench.
S.P.	9/31/92	12:45		✓	25587.4		✓	✓	✓	✓		Stockpile - Tank - Islands #1 - Separate
S.P.	9/31/92	12:45		✓	25588.2		✓	✓	✓	✓		Stockpile Tanks Islands #2 - Separate
												1 or 2 sample stockpile
												No duplicate

Not stockpile list

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	9/1/92	12:10					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Date	Received for Laboratory by: (Signature)	Date	Time	Remarks:	

Kelleher Environmental, Inc.
12252 Nicollet Avenue South Burnsville, Minnesota 55337
(612) 890-4846 (800)-553-2648
Fax: (612) 890-5521

SITE LOCATION MAP

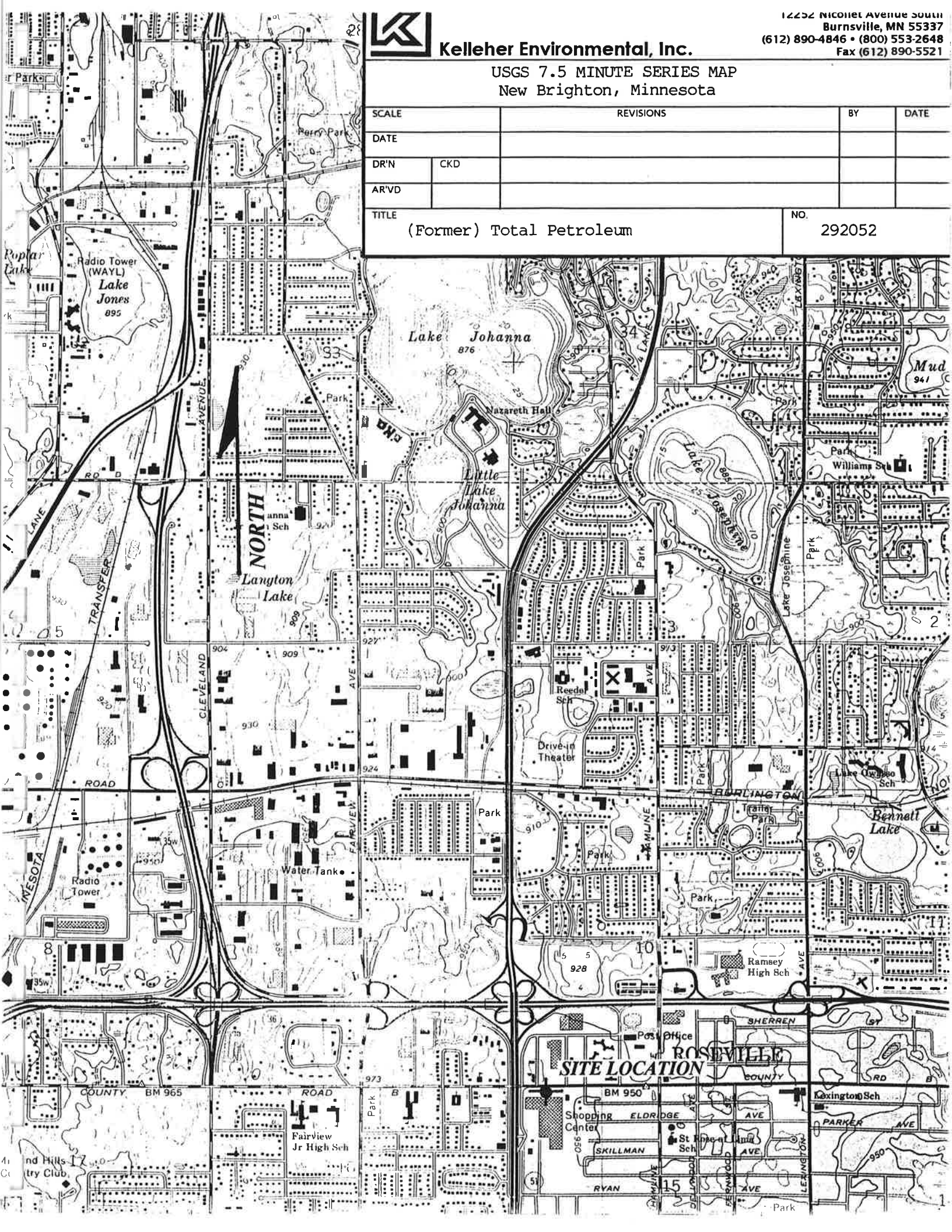
Kelleher Environmental, Inc.
12252 Nicollet Avenue South
Burnsville, MN 55337
(612) 890-4846 • (800) 553-2648
Fax (612) 890-5521

USGS 7.5 MINUTE SERIES MAP
New Brighton, Minnesota

SCALE		REVISIONS	BY	DATE
DATE				
DR'N	CKD			
AR'VD				

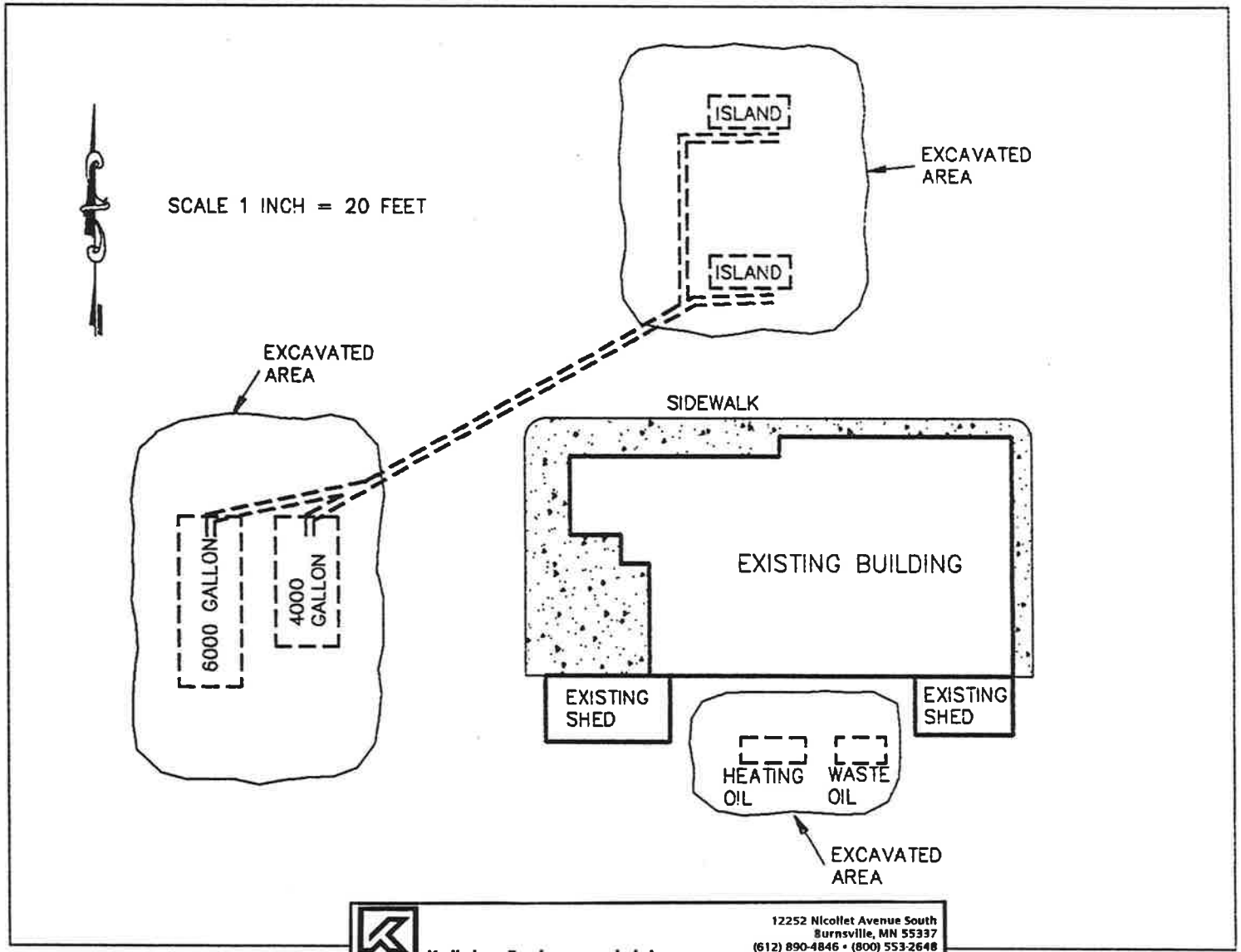
TITLE: (Former) Total Petroleum

NO.: 292052



COUNTY ROAD B

SNELLING AVE.



Kelleher Environmental, Inc.
12252 Nicollet Avenue South
Burnsville, MN 55337
(612) 890-4846 • (800) 553-2648
Fax (612) 890-5521

(Former) Total Petroluem Site
Roseville, Minnesota

SCALE	1"=20'	REVISIONS	BY	DATE
DATE	10-27			
DR'N	JM / CK'D TH			
AR'VD				
TITLE	Site Map - (Former) Total	NO	292052	

PERMITS AND DISPOSAL DOCUMENTATION

DETERMAN WELDING & TANK SERVICE, INC.

1241 72nd Ave. N.E., Minneapolis, Minnesota 55432 (612) 571-8110

September 30, 1992

Ref. #11240
and #11292

Kelleher Construction
fax #890-5521

Attention: Al Burke

This is to certify that on 8/27/92 we disposed of the following tanks and product from the old Total station at 1526 County Rd B, at the Har Mar Mall in Roseville. This was done in accordance with Appendix B-5 of NFPA 30 "Disposal of Tanks" and federal EPA and MPCA rules and regulations.

Tank #	Capacity	Size
689	6000 gal.	6'x29'
694	4000 gal.	6'x19'
695	560 gal.	48"x72"
696	560 gal.	48"x72"

Product

20 gallons of fuel oil
330 gallons of drain oil
47 gallons of drain oil sludge

Sincerely,

Cris R. Smith
Environmental Manager

CRS/kss

CITY OF ROSEVILLE
Department of Community Development
2660 Civic Center Drive
Roseville Mn. 55113

08/27/92 08:18

FIRE PERMIT

Permit Number: K9200086
Type: PERMIT-F

Address: 1526 COUNTY ROAD B W
Parcel No: 1529-23-22-0004
Applicant: TOTAL PETROLEUM
Contractor: KELLEHER ENVIRONMENTAL
License:
Cont. Phone :
Contractor Address :

Zip Code :

Construction:
Class Code:
Public Owned:
Zoned:

Square Feet:
Valuation: 8,000.00

Status: APPROVED
Validated By: JL
Date Applied: 08/27/1992
Date Approved: 08/27/1992
Date Completed:
Date Expire: 08/27/1993

Calculated Fees:	.00
Additional Fees:	110.92
Total Fees:	110.92
Payments:	110.92
Balance Due:	.00

Work Desc:
tank removal
Comments:
Conditions:
Inspections:

Item: 04000 SITE VISIT (Sprinkler/Tank)	Dept:	Division:
Item: 04001 HYDRO-STATIC	Dept:	Division:
Item: 04002 PLACEMENT	Dept:	Division:
Item: 04003 INSPECTOR'S TEST	Dept:	Division:
Item: 04004 FINAL	Dept:	Division:

*******Please Call 490-2240 for Further Information******

-Important -

Application is hereby made to the Director of Community Development for a Permit subject to the conditions and restrictions set forth in the City of Roseville Municipal Code and other applicable codes. Any Permit issued as a result of this application becomes null and void on the date of expiration indicated above.

LEGEND TECHNICAL SERVICES, INC.
TABLE #1
LEGEND No. 92-2415

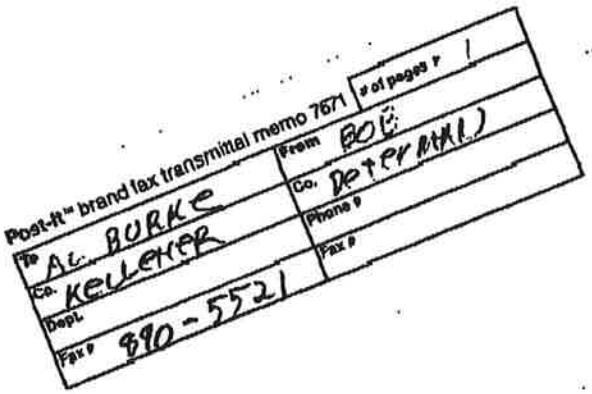
DETERMAN WELDING & TANK SERVICE
ANALYTICAL RESULTS

Compound	1240 Oil (mg/kg)	MDL (mg/kg)	Date Analyzed
Total Halogens	21,000	1.0	9/02/92
Arsenic	<2.5	2.5	9/02/92
Cadmium	1.5	0.5	9/01/92
Chromium	18	5.0	9/01/92
Lead	4,600	5.0	9/01/92
Flashpoint	>200° F	—	8/28/92

> = Greater than number shown

mg/kg is equal to parts per million

Waste Oil Analysis
Former Total Petroleum
1526 Cty Rd B
Roseville, MN



Kelleher

Kelleher Environmental, Inc.
12252 Nicollet Avenue South
Burnsville, MN 55337
(612) 890-4846
800-553-2648
Fax: (612) 890-5521

FAX TRANSMITTAL

FAX NO. (612) 890-5521

DATE: 12-23-92

COMPANY: MPCA

ATTN: Catherine Serier

FAX NO. 297-8676

FROM: Teri Hovanec

NO. OF PAGES INCLUDING THIS PAGE: 2

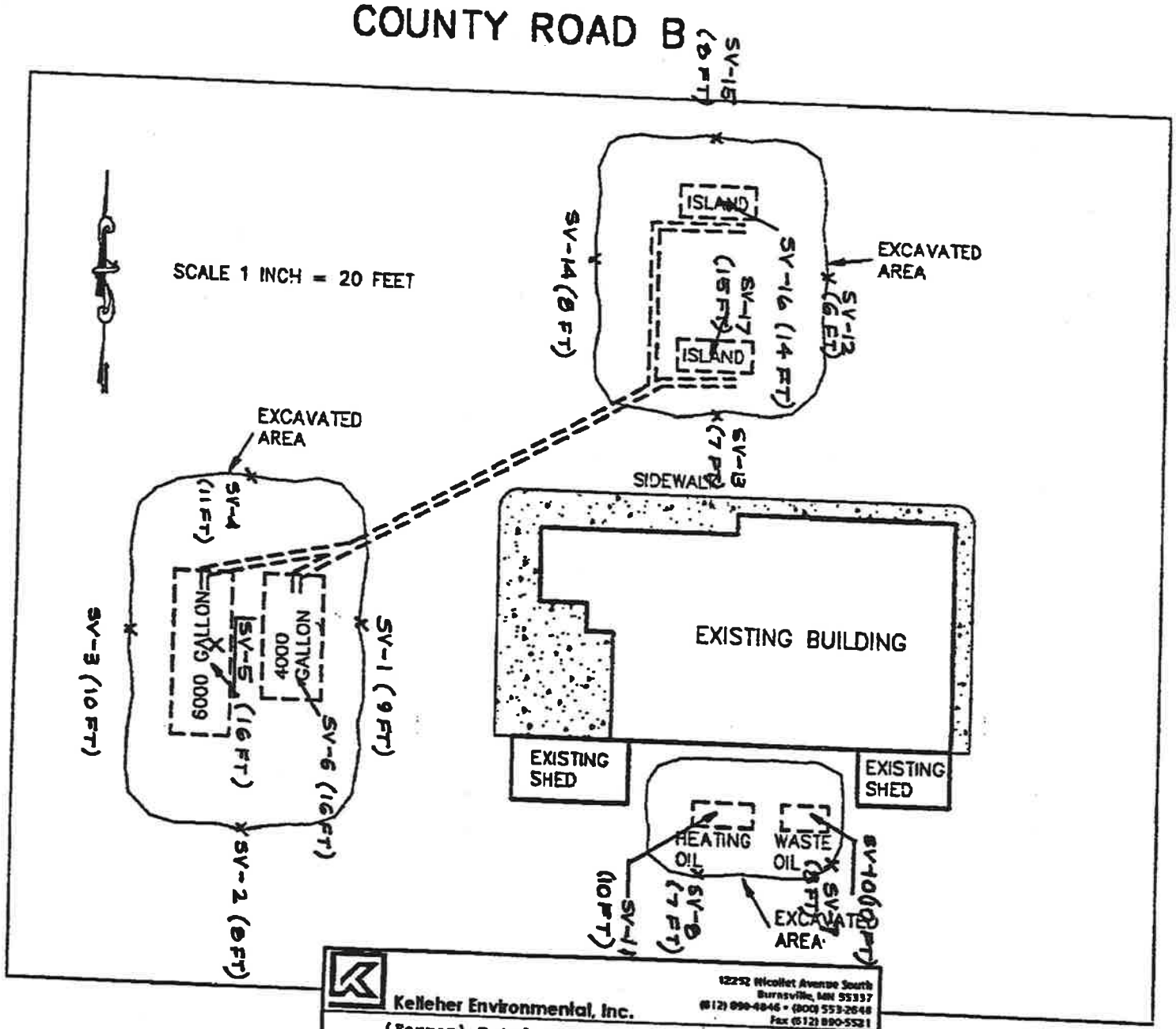
SUBJECT: Additional Information requested

COMMENTS:

Project: Former Total Petroleum
Roseville, Minnesota

ORIGINAL TO FOLLOW BY MAIL:

YES _____ **NO** x



Kelleher Environmental, Inc.

12252 Nicollet Avenue South
Burnsville, MN 55337
(612) 890-4846 • (800) 553-2648
Fax (612) 890-5521

(Former) Total Petroleum Site
Roseville, Minnesota

SCALE	1"=20'	REVISIONS	BY	DATE
DATE	10-27			
DRN JM	CKD TH			
APVD				

TITLE: Site Map - (Former) Total

NO: 292052

Kelleher

Kelleher Environmental, Inc.
12252 Nicollet Avenue South
Burnsville, MN 55337
(612) 890-4846
800-553-2648
Fax: (612) 890-5521

FAX TRANSMITTAL

FAX NO. (612) 890-5521

DATE: 12-15-92

COMPANY: MPCA

ATTN: Catherine Serier

FAX NO. 297-8676

FROM: Teri Hovanec

NO. OF PAGES INCLUDING THIS PAGE: 4

SUBJECT: Additional Information requested

COMMENTS:

Project: Former Total Petroleum
Roseville, Minnesota

ORIGINAL TO FOLLOW BY MAIL:

YES _____ **NO** _____

H. **Was bedrock encountered in the excavation: At what depth:** n/a

I. **Were other unique conditions associated with this site? If so, explain.** Existing building located on east side of project site.

V. SAMPLING

A. **Briefly describe the field methods (including use of a photoionization detector) used to distinguish contaminated from uncontaminated soil:** Samples taken at seventeen locations commencing 6'-0" below surface grade extending to 18'-0" below grade. Organic vapor meter (OVM) used to measure organic vapor in ppm at headspace. Additional samples shipped to Independent laboratory (on ice) for analysis.

B. **List soil vapor headspace analysis results. Indicate sampling locations using sample codes (with sampling depths in parentheses), e.g. SV-1 (2 feet), SV-2 (10 feet), etc. Samples collected at different depths at the same location should be labeled SV-1A (2 feet), SV-1B (4 feet), SV-1C (6 feet), etc. These should correspond with the codes on the site map in part VI. If the sample represents soil from the final extent of the excavation indicated "bottom" or side-wall" in the bottom/sidewall column.**

Sample Code	Soil Type	Reading ppm	Bottom/ Sidewall	Sample Code	Soil Type	Reading ppm	Bottom/ Sidewall
SV-1 (9')	clay	14	sidewall	SV-12 (6')	clay-sand	13.7	sidewall
SV-2 (8')	clay	12.5	sidewall	SV-13 (7')	clay	10.2	sidewall
SV-3 (10')	clay	11.3	sidewall	SV-14 (8')	clay	11.6	sidewall
SV-4 (11')	clay	7.3	sidewall	SV-15 (8')	clay	14.3	sidewall
SV-5 (16')	clay	8.2	bottom	SV-16(14')	clay	4.2	bottom
SV-6 (18')	clay	9.4	bottom	SV-17(15')	clay	3.7	bottom
SV-7 (8')	clay-sand	1.2	sidewall				
SV-8 (7')	clay-sand	1.5	sidewall				

During tank removal and excavation activities, the soil vapor head space readings ranged from 1.2 ppm to 250 ppm.

C. Briefly describe the soil sampling and handling procedures used:
The soil samples obtained at the project site were grab samples; sampled in accordance with procedures as outlined in Guidance Document #6, Section IV. The samples were placed on ice for shipment to an independent laboratory for analysis.

D. List the appropriate soil sample analytical results from the bottom and sidewalls of the excavation below (refer to "Soil and Ground Water Analysis at Petroleum Release Sites," Guidance Document 11). If the petroleum was not gasoline or fuel oil attach appropriate analytical results. Code the samples (with sampling depths in parentheses) SS-1 (8 feet), SS-2 (4 feet), etc. These should correspond with the codes on the site map in part VI. Do not include analyses from the stockpiled soils.

Sample Code	THC as gas or FO ppm circle one	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm
SS-1 (16')	ND (Gas)	ND	ND	ND	ND	ND	
SS-2 (16')	1.5 (Gas)	ND	ND	ND	ND	ND	5.2
SS-3 (9')	5.7 (Gas)	ND	ND	ND	ND	ND	5.4
SS-4 (14')	ND (Gas)	ND	ND	ND	ND	ND	4.7
SS-5 (15')	2.9 (Gas)	ND	ND	ND	ND	ND	4.0
SS-6 (6')	ND (Gas)	ND	ND	ND	ND	ND	6.4
SS-7 (8')	ND (FO)	ND	ND	ND	ND	ND	31
SS-8 (10')	10 (FO)	ND	ND	ND	ND	ND	ND

NOTE: COPIES OF LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS MUST BE INCLUDED.

VI. FIGURES

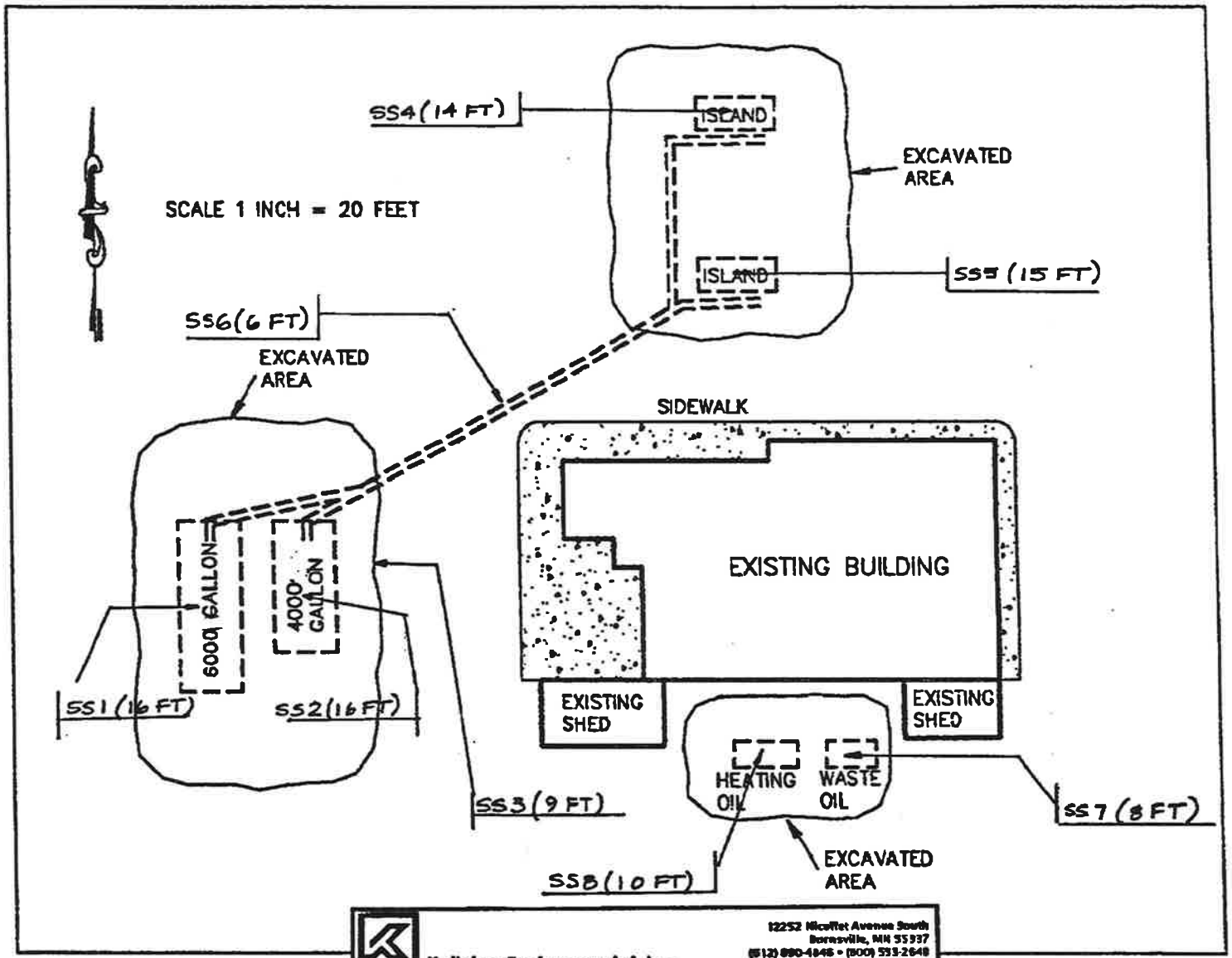
Attach the following figures to this report:

1. **Site location map.**
2. **Site map(s) drawn to scale illustrating the following:**

   a. **location (of former location) of all present and former tanks, lines, and dispensers;**
   b. **location of other structures (buildings, canopies, etc);**
   c. **adjacent city, township, or county roadways;**
   d. **final extent of excavation; and**
   e. **location of soil vapor analyses (e.g. SV-1), soil samples (e.g., SS-1), and soil borings (e.g. SB-1). Also, attach all boring logs.**
   f. **north arrow and map legend**

COUNTY ROAD B

SNELLING AVE.



Kelleher Environmental, Inc.
12252 Nicollet Avenue South
Burnsville, MN 55337
(612) 890-4846 • (800) 533-2648
Fax (612) 890-5521

(Former) Total Petroluem Site
Roseville, Minnesota

SCALE	1"=20'	REVISIONS	BY	DATE
DATE	10-27			
DRN JM	CKD TH			
APVD				
TITLE	Site Map - (Former) Total	NO	292052	