



Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155

Telephone (612) 296-6300



Mr. Len Copt
Roseville Public Schools
1251 West County Road B2
Roseville, Minnesota 55113

August 1, 1990

Dear Mr. Copt:

RE: Petroleum Tank Release Site Closure
Site: Lexington School, 1130 West County Road B2, Roseville
Site ID#: LEAK00001962

The Minnesota Pollution Control Agency (MPCA) staff has determined that the cleanup performed in response to the petroleum tank release at the site referenced above has adequately addressed the petroleum contamination, and therefore the file regarding this release will be closed.

On November 6, 1989, a petroleum tank release was reported to the MPCA. The following corrective action has been taken in response to the release:

1. A 250 gallon fuel oil underground storage tank was removed. It is indicated that approximately 20 gallons of fuel spilled into the excavation during the tank removal.
2. Approximately one cubic yard of soil was excavated from the area of spillage and was spread on the gravel parking area of the storage lot of the Roseville Area High School with MPCA approval.
3. Since a soil sample taken from the base of the excavation indicated 4800 parts per million total hydrocarbons as fuel oil a soil boring was conducted to determine the vertical extent of the contamination. Photoionization detector readings taken from soil from the boring were very low to nondetect. Soil samples taken below the extent of excavation indicated no detectable benzene, ethyl benzene, toluene, xylene, and total hydrocarbons as fuel oil.

Based on the currently available information, we concur with the conclusions of STS Consultants Ltd. that the remaining soil contamination does not pose a threat to ground water or human health. Therefore, MPCA staff does not intend to require any more investigation or cleanup work in response to this release. However, the MPCA reserves the right to reopen this file and require additional work if in the future more work is determined to be necessary, and this letter does not release any party from liability for this contamination.

Mr. Len Copt
Page 2

Thank you for your cooperation with the MPCA in responding to this petroleum tank release to protect the public health and the environment of the state of Minnesota. If you have any questions regarding this correspondence, please call me at 612/643-3457.

Sincerely,



Christopher Zadak
Pollution Control Specialist
Tanks and Spills Section
Hazardous Waste Division

CZ:kmf

cc: Bob DeGroot, STS Consultants
Steven Sarkozy, City Manager, Roseville
Joel Hewitt, Fire Chief, Roseville
Steve Gatlin, Public Works Director, Roseville

MINNESOTA POLLUTION CONTROL AGENCY
 TANKS AND SPILLS SECTION
 ABOVE/BELOW GROUND RELEASE REPORT

STK
 8/89 ✓

Report taken by: *DK* Date/time occurred:
 Date/time of report: *11-6-89* Date/time discovered:

CALLER*
 name: *Jane Boreboom*
 phone: *559-1900*
 relationship to site: *S.T.S.*

INSTALLATION*
 name: *Lexington Schools.*
~~*1130 West.*~~
 street: *City B-2 + Lexington*
 city, zip: *Roseville.*

MATERIAL RELEASED/AMOUNT*
Fuel Oil

LEAK # *Leak 00001962*
 USTIS # *MNUST 0003712*
 STATE or FEDERAL
 EMERGENCY DECLARED? YES NO
 RP FF
 VAPOR/ WATER/ OTHER
 SITE INVESTIGATION - NO BUT NEEDED
 ACTIVE: RP
 ACTIVE: FF
 CORRECTIVE ACTION - NO BUT NEEDED
 ACTIVE: RP
 ACTIVE: FF
 ENFORCEMENT - NO YES (documented)

SITUATION (HOW/WHY)
Removal
Small cut

ACTIVITIES TO DATE (circle)*
 tank removed, size *2+*
 age _____, contents _____
 above ground/below ground
 30 day notification? YES NO
 soil borings
 digging, why? _____
 contamination detected - odor,
 staining, instrument, analysis
 soil excavated
 stockpiled properly
 disposal arranged
 samples collected
 other(specify)

SITE OWNER/RESPONSIBLE PARTY*
 name: *Roseville - Public Schools*
 street: *1251 W. City Rd. B-2*
 city, zip: *Roseville, Minn. 55113.*
 contact person: *LEN Copt.*
 phone: *633-8150*

INSTRUCTIONS GIVEN (circle)*
 hire consultant
 submit report
 staff will call
 contact staff

SITE OPERATOR*
 name:
 street:
 city, zip:
 contact person:
 phone:

AREAS AFFECTED*
 surface water
 groundwater
 sanitary sewer
 storm sewer
 soil
 wells _____
 other _____

CONTACTS
 Local Fire/Police _____
 Local Officials _____
 Emergency Services _____
 MPCA Region _____
 MDA _____
 MDOT _____
 Other _____
 ADDITIONAL INFO - continue on back



Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155

Telephone (612) 296-6300



March 27, 1990

Mr. Len Copt
Roseville Public Schools
1251 West County Road B2
Roseville, Minnesota 55113

Dear Mr. Copt:

RE: Petroleum Tank Release Investigation
Site: Lexington School, 1130 West County Road B2, Roseville
Site ID#: LEAK00001962

The Minnesota Pollution Control Agency (MPCA) staff has reviewed the report completed by STS Consultants Ltd. (STS) regarding the above-referenced site.

The report indicates that soil analytical results from the bottom of the fuel oil tank excavation shows relatively high levels of petroleum contamination (4800 parts per million total petroleum hydrocarbons as fuel oil). It is not clear from the report whether the remaining contamination was due to the fuel oil spilled during excavation or fuel oil previously released due to tank corrosion or both.

To define the vertical extent of the contamination the MPCA concurs with STS's recommendation that additional soil borings be conducted through the former tank basin. Soil samples should be submitted for laboratory analysis from intervals where the highest levels of petroleum contamination are identified by visual, olfactory, or photoionization detector methods and from the bottom of each borehole or directly above the water table to confirm the presence or absence of contamination. Samples should be analyzed in accordance with the MPCA document "Soil and Ground Water Analysis at Petroleum Release Sites."

If you have any questions regarding this correspondence, please call me at 612/643-3457.

Sincerely,

Christopher Zadak
Pollution Control Specialist
Tanks and Spills Section
Hazardous Waste Division

cc: Robert DeGroot, STS Consultants



Roseville Area Schools · District 623

Serving the Communities of Arden Hills, Falcon Heights, Lauderdale, Little Canada, Maplewood, Roseville, and Shoreview

Independent School District 623 · Roseville Area Schools
District Center · 1251 West County Road B-2 · Roseville, MN 55113
Telephone: 612/633-8150

RECEIVED
JAN - 2 1990

MPCA, HAZARDOUS
WASTE DIVISION

Mr. Chris Zadak
Tanks and Spills Section
Minnesota Pollution Control Agency
520 Lafayette Rd.
St. Paul, Mn. 55155

Re: Leak Number 00001962
Roseville Area Schools, District 623
Lexington School

Dear Mr. Zadak:

The Roseville schools have removed an unused 250 gallon, #2 fuel oil tank from the Lexington school site. Upon removal we discovered a number of holes in the tank. However, soil borings prior to removal did not indicate the presence of petroleum contaminated soil, but upon removal a small amount of contaminated soil was identified and the holes in the tank were observed. As a precaution a small amount of soil was removed from the site. A HNU meter was used to identify soils to be removed. The amount removed was less than 1 cubic yard, and is going to be disposed of by spreading it on the gravel parking area of our storage lot at the Roseville Area High School. As per our telephone conversation, I believe that to be a suitable disposal method for such a small quantity.

If the need for more information should arise feel free to contact me at: Roseville Area Schools District Center
1251 West County Road B-2
Roseville, Mn. 55113
633-8150 Ext. 258

Respectfully,

Leonard Copt
Life Safety Supervisor
Roseville Area Schools



STS Consultants Ltd.
Consulting Engineers

3650 Annapolis Lane
Minneapolis, Minnesota 55447
(612) 559-1900

RECEIVED

JAN - 2 1990

MPCA, HAZARDOUS
WASTE DIVISION

December 18, 1989

Mr. Len Copt
Roseville School District #623
2151 W. County Road B-2
Roseville, Minnesota 55113

STS Project 94933-XF

Re: Tank Removal Project at Lexington School for ISD #623

Dear Mr. Copt:

STS Consultants, Ltd. has completed the tank closure documentation for the tank removal project at the Lexington School, 1130 West County Road B, Roseville, Minnesota. The scope of services STS provided are outlined in STS Proposal P-2644 dated September 28, 1989. The scope of services were revised by yourself to include only site observation and testing including sampling of soils during tank removal. The Minnesota Pollution Control Agency's (MPCA) form titled "Underground Storage Tank Removal Information Form" was also completed. The remainder of this letter describes the work performed and presents our conclusions and recommendations.

Observation of Underground Storage Tank Removal

The 250 gallon underground fuel oil storage tank was removed from the Lexington School property on November 5, 1989. Ms. Jane Boerboom, Environmental Geologist from STS Consultants, Ltd., was present to observe the removal process. The backfill consisted of clay fill material with some red brick. The tank was removed using a backhoe.

The contractor reported approximately 3 inches of product remained within the tank. The product was not pumped prior to removing the tank from the excavation. Approximately 1 to 2 gallons of product leaked from the tank as the tank was removed from the excavation. The tank was placed on an asphalt surface next to the open excavation. Several 1 to 2 inch diameter corrosion holes were observed in the tank exterior.

The soil impacted by the leaking fuel oil during the tank removal process was removed by the contractor with a shovel. The impacted soil was placed in the bucket of the backhoe. Approximately 1 cubic yard of soil was removed from the excavation. A soil sample, identified as Soil Sample #1, was obtained from the bottom of the excavation

after removal of the newly impacted soil. Soil Sample #2 was obtained from the stockpile of impacted soil. The excavated impacted soils were later transported to Roseville High School where they are presently stockpiled.

An HNU meter equipped with a photoionization detector was used to measure the presence of volatile organic compounds (VOCs) in the impacted soils. The Head Space Jar Method was used to sample the air space above the soils. A soil sample was placed in a clean glass jar. After replacing the cover on the jar, the jar was agitated to allow the VOCs to mix with the air space above the sample. The air space above the soil sample was then sampled with the HNU meter. The location of each sample and corresponding HNU meter reading is listed in Table 1.

Table 1
Sample Locations and Corresponding HNU Values

<u>Sample ID No.</u>	<u>Location</u>	<u>HNU Values (ppm)</u>
#1	Bottom of tank excavation, 5 ft. below ground surface	1
#2	Stockpiled soils	8-10

HNU meter calibrated to a benzene reference.
Background HNU values equaled 1 ppm.

The soil samples collected for chemical analysis were placed in clean 40 milliliter sample containers equipped with a Teflon lined septum. The soil samples were transported to Pace Laboratories for chemical analysis. An STS Chain Of Custody Record was also completed and accompanied the soil samples to the laboratory. The soil samples were analyzed for benzene, ethylbenzene, toluene, xylene and total petroleum hydrocarbons as fuel oil. The results of the chemical analysis are included in Table 2.

Table 2
Chemical Results of Soil Samples
Collected on November 6, 1989

	<u>MDL (ppm)</u>	<u>S#1 (ppm)</u>	<u>S#2 (ppm)</u>
Benzene	0.12	ND	ND
Toluene	0.12	ND	ND
Ethylbenzene	0.12	ND	ND
Xylene	0.12	ND	ND
Total Petroleum Hydrocarbons as Fuel Oil	33	4800	7600

MDL = Method Detection Limit.
ND = Not detected at or above the MDL.

A copy of the chemical analysis report prepared by Pace Laboratories is enclosed with this letter. The chemical results indicate impact of petroleum product to exist at the bottom of the excavation and in the stockpiled soils. However, HNU meter values observed from soil samples collected within the excavation were equal to background levels.

These results can be explained due to the presence of old petroleum product within the excavation. The lighter, more volatile components of fuel oil have degraded or volatilized prior to tank removal. The heavier, less volatile components of fuel oil were not detected by the HNU meter. The soils within the excavation were slightly discolored, ranging from a brown to a green gray brown. No free product or groundwater was observed within the excavation. The excavation was backfilled by the contractor with imported fill material.

The soil sample chemically analyzed from the stockpile contains a total petroleum hydrocarbon as fuel oil concentration of 7600 parts per million (ppm). The concentrations of other constituents tested were below detection limits. The soil removed from the excavation had an HNU meter reading above background concentrations. The stockpiled soil appears to be impacted as a result of leakage from the tank during the removal process.

Conclusions

A 250 gallon underground fuel oil storage tank was removed from Lexington School on November 5, 1989. Visible signs of corrosion holes were observed.

Leakage of fuel oil from the tank occurred during the tank removal process. The contaminated soils identified within the excavation and subsequently excavated appeared to be the result of spillage during the tank removal process.

Discolored soil present in the excavation may have resulted from leakage during periods of active tank use. The tank reportedly has not been filled for the last 10 years.

The soils sampled within the excavation after removal of the soil impacted during tank removal did not exhibit HNU meter values above background levels. Chemical analysis results indicate the soils within the bottom of the excavation contain elevated concentrations of total petroleum hydrocarbon as fuel oil. No values above detection limits for benzene, toluene, ethylbenzene, and xylene were identified in either soil sample analyzed. The soils identified from within the excavation were comprised of clayey fill and were discolored from brown to gray green brown. The contractor filled the excavation with imported fill material.

Approximately one cubic yard of soil impacted during the tank removal process was excavated. This soil was transported and stockpiled on the school grounds of Roseville Senior High School.

Recommendations

Additional impacted soil may be present at the Lexington School site. STS recommends additional soil borings be performed at this site to determine the extent of impacted soil. Soil samples collected from these borings should be visually examined for the presence of petroleum product. Soil samples suspected of being impacted should be chemically analyzed for the presence of total petroleum hydrocarbons as fuel oil. Site closure or further work may be recommended after this second phase of work is performed.

The Minnesota Pollution Control Agency "Underground Storage Tank Removal Information Form" was completed. The original form is enclosed with this letter. If satisfactory, this form should be transmitted to the MPCA and City of Roseville Fire Marshal as indicated.

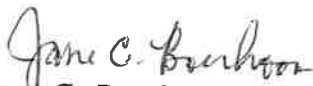
General Qualifications

Our interpretation of the data included in this letter is based upon the data base which was collected. Changes in our interpretation may occur as additional information becomes available. In addition, variation in soil conditions may exist within the vicinity of the excavation. These variations may change the interpretation of the site conditions.

We appreciate the opportunity to be of service to you. If you have any questions or comments in reference to this letter, please contact us at 559-1900.

Respectfully,

STS CONSULTANTS, LTD.



Jane C. Boerboom
Environmental Geologist



Peter W. Tiffany, P.E.
Project Engineer



Robert L. DeGroot, P.E.
Principal Engineer

JCB/dn
Encs.



Minnesota Pollution Control Agency

UNDERGROUND STORAGE TANK REMOVAL INFORMATION FORM

This Is An Optional Form Provided To Tank Owners, Fire Department Representatives And Others To Assist The Observation Of Under-ground Storage Tank Removals. It Is The Legal Duty Of The Tank Owner And Operator To Report Any Evidence Of Petroleum Contamina-tion To The Minnesota Pollution Control Agency (MPCA).

Observer Jane Boerboom Date: 11/5/89 Time: 11:00

Signature: Jane Boerboom
Organization: STS Consultants, Ltd.
Position: Environmental Geologist
Address: 3650 Annapolis Lane, Minneapolis, MN 55447
Telephone No. (s): 612/559-1900

TANK INFORMATION

Tank Owner Name: Roseville Independent School District #623
Contact Person: Len Copt Title: Life Safety Supervisor
Tank Location Name: Lexington School
Address: 1130 W. County Road B City: Roseville
County: Ramsey Telephone Number: 612/633-8150
Excavation Contractor: Frattolone Excavators
Address: 366 Spruce St., Little Canada, MN 55112
Telephone Number: 612/484-0448

Table with 6 columns: TANK, Condition & Size, Contents (Product), Visible Corrosion, Visible Leakage, Soil Contamination. Row 1: 1, Bad, 32"x72", fuel oil, yes, yes, yes.

SOIL CONDITIONS WITHIN THE EXCAVATION

- 1. Detectable Petroleum Contamination Was Found? YES / NO
2. Petroleum Odors: (Circle: Weak, Moderate, Strong) YES / NO
3. Visible Petroleum Product In Soil: YES / NO
4. Sheen On Water Mixed With Soil: YES / NO
5. Sheen On Ground Water In Excavation: No groundwater YES / NO
6. Petroleum Product On Ground Water In Excavation: YES / NO
7. Instrument (hNu or other device) Readings: 8-10 ppm YES / NO
8. Soil Type: (Circle: Clay, Silt, Sand, Gravel, Fill)
9. Pictures Taken: (Y) / (N), By: Len Copt
10. Tank Disposal By: Determan Where: 1241 - 72nd Ave. N.E., Minneapolis, MN 55432

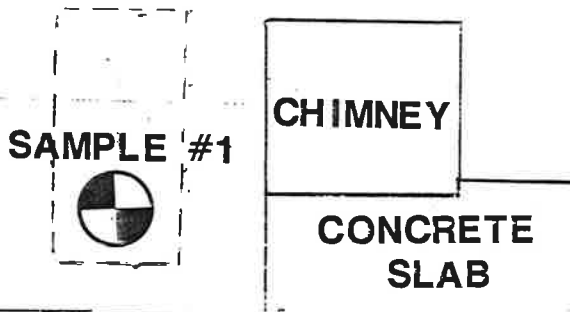
The Minnesota Pollution Control Agency (MPCA) must be notified immediately of any evidence of petroleum contamination. 24 Hour Emergency Leak or Spill Number: (1-612-296-8100) During Business Hours: (1-612-296-7235) or (1-612-296-7709) Continued on back:----->

* from the excavation based upon photoionization detector reading levels which were less than 1 part per million.

ADDITIONAL COMMENTS, DETAILS AND DESCRIPTIONS: The tank had 1 to 2 inch corrosion holes around the sides and on top of the tank system. There appeared to be no holes on the bottom of the tank. During the removal process, product leaked from the low end of the tank through the corroded holes as it was being pulled from the ground. Approximately 1 to 2 gallons of product leaked from the tank into the excavation. The contractor used a shovel to remove the contaminated soils from the excavation. All contaminated soils appeared to have been removed*
Sketch the property site and tank location(s) in the space provided below. —

**250 GALLON FUEL OIL
TANK EXCAVATION**

NORTH



W
E
S
T

LEXINGTON SCHOOL

E
A
S
T

ONE INCH EQUALS APPROXIMATELY FIVE FEET

SOUTH

Please fill out this form as completely as possible. Provide a copy to the local Fire Department Official and send the original form to the MPCA at the address below.

Minnesota Pollution Control Agency
Tanks and Spills Section
Hazardous Waste Division
520 Lafayette Road, St. Paul, Minnesota 55155

STS Consultants
3650 Annapolis Lane
Minneapolis, MN 55441

November 21, 1989
PACE Project
Number: 891108523

Attn: Ms. Jane Boerboom

94933-XF

PACE Sample Number:		425500	425510
Date Collected:		11/06/89	11/06/89
Date Received:		11/08/89	11/08/89
<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>S#1</u> <u>S#2</u>

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Moisture content	%	1.0	16.2	12.4
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VOLATILE PETROLEUM RELATED CMPDS IN SOIL

Date Analyzed			11/16/89	11/15/89
Benzene	mg/kg	0.12	ND	ND
Toluene	mg/kg	0.12	ND	ND
Ethyl benzene	mg/kg	0.12	ND	ND
Xylene	mg/kg	0.12	ND	ND
Total Hydrocarbons as gasoline	mg/kg	1.0	ND	ND

HEXANE EXTRACT PETROLEUM PRODUCTS SOIL

Date Analyzed			11/17/89	11/17/89
Date Extracted			11/16/89	11/16/89
Gasoline	mg/kg	33	ND	ND
Fuel oil #1	mg/kg	33	ND	ND
Fuel oil #2	mg/kg	33	4800	7600

MDL Method Detection Limit
ND Not detected at or above the MDL.

The analyses of soil samples were performed 'as received' and do not reflect analyses on a dry weight basis unless indicated.

The data contained in this report were obtained using EPA or other approved methodologies. All analyses were performed by me or under my direct supervision.

SOM

Susan D. Max
Organic Chemistry Manager



Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155

Telephone (612) 296-6300



December 29, 1989

Mr. Len Copt
Roseville Public Schools
1251 West County Road B2
Roseville, Minnesota 55113

Dear Mr. Copt:

RE: Petroleum Storage Tank Release Investigation and Corrective Action
Site: Lexington School, 1130 West County Road B2, Roseville
Site ID#: LEAK00001962

The Minnesota Pollution Control Agency (MPCA) has received your notification that a release of petroleum has occurred from storage tank facilities which Roseville Public Schools owns and/or operates. The first report of the release was made to MPCA staff on November 6, 1989.

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.

The MPCA staff is therefore requesting you to take the necessary steps to investigate and clean up the release in accordance with the enclosed "Petroleum Tank Release Investigation Report." We are aware that an environmental consultant has been hired to investigate the release.

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 Petroleum Tank Release Compensation Board (Petro Board). More specific eligibility rules are available from the Petro Board (612/297-4017).

In the event that you do not proceed with the necessary corrective action, the MPCA Commissioner may order you to do so. If not complied with, the Commissioner's order could 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 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.

Mr. Len Copt
Page 2
December 29, 1989

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. In addition, please notify me within 24 hours of discovery of free floating petroleum product on the surface of the ground water.

Please feel free to contact me at any time you need information or assistance in these matters. My telephone number is 612/643-3457.

Thank you.

Sincerely,



Christopher Zadak
Pollution Control Specialist
Tanks and Spills Section
Hazardous Waste Division

CZ/jr

Enclosures

cc: Steven Sarkozy, City Manager
Joel Hewitt, Fire Chief



Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155-3898

Telephone (612) 296-6300



June 14, 1991

The Honorable John Marty
Minnesota State Senator
G-9 Capitol
St. Paul, Minnesota 55155

The Honorable Mary Jo McGuire
Minnesota State Representative
1529 West Iowa Avenue
Falcon Heights, Minnesota 55108

Dear Senator Marty and Representative McGuire:

RE: Lexington School, Roseville
LEAK00001962

I am writing to inform you that actions have been taken to investigate contaminated soil and/or ground water at a site in your district. The site is Lexington School at 1130 West County Road B in Roseville. As allowed by the Petroleum Tank Release Cleanup Act, the responsible party has applied to the Minnesota Petroleum Tank Release Compensation Board (Petro Board) for reimbursement of 90 percent of their cleanup costs up to \$1,000,000.

On May 30, 1991, the Petro Board voted to reimburse \$2,407 in repayment of cleanup costs.

If you would like more information on the status of the site, please contact Christopher Zadak of my staff at 612/643-3457.

Sincerely,

for Charles W. Williams
Commissioner

CWW:kra



RECEIVED

MAY 03 1991

MPCA, HAZARDOUS
WASTE DIVISION

April 30, 1991

Ms. Robin Hanson
Petroleum Tank Release Compensation Board
Minnesota Department of Commerce
500 Metro Square
St. Paul, MN 55101

STS Project 94941-YF

Re: Application for Reimbursement from the Minnesota Petrofund for Remediation Activities, Lexington School, Roseville, Minnesota (MPCA Leak No. 1962)

Dear Ms. Hanson:

We have received your request for additional information required for processing the application for the above-referenced project.

During removal of the 250-gallon underground fuel oil storage tank at Lexington School on November 5, 1989 (STS Project No. 94933-XF) several 1 to 2 inch diameter corrosion holes were observed in the tank. Additional leakage (approximately 1 to 2 gallons of product) from the tank occurred during the tank removal. Leakage was due to the corrosion holes in the tank. Approximately 1 cubic yard of contaminated soil was removed from the excavation site. A release investigation (STS Project No. 94941-YF dated May 18, 1990) was conducted at the site to determine the vertical extent of contamination.

If you have any questions regarding this application or require further information, please contact us at 612/559-1900.

Sincerely,

STS CONSULTANTS, LTD.

Leslie A. Stovring
Environmental Scientist

Robert L. DeGroot, P.E.
Principal Engineer

LAS/lis

STS Consultants Ltd.
Consulting Engineers

3650 Annapolis Lane
Minneapolis, Minnesota 55447
612.559.1900/Fax 612.559.4507

C. Zadak

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

Site: Lexington School

Site ID#: LEAK00001962

Applicant: Independent School District #623

Date of Application: November 29, 1990

1. Cleanup Determination: ADEQUATE

I hereby determine, pursuant to Minn. Stat. § 115C.09, subd. 2(b) (1990), that the corrective action taken at the above-referenced site has adequately addressed the release from the site in terms of public health, welfare and the environment.

The determinations in this report are made solely for the purpose of determining eligibility for reimbursement under Minn. Stat. § 115C.09, subd. 2 (1990). Nothing in this site report releases any person from liability and the MPCA reserves the right to require additional work if the corrective action referenced above is later determined to be inadequate.

2. Recommendation:

MPCA staff recommend that this application not receive reimbursement since this release is attributable only to spillage of petroleum during the removal of the tank. The contractor hired by the responsible party did not properly remove the remaining fuel from the tank prior to removing the tank. Consequently, one to two gallons of fuel spilled into the excavation. One cubic yard of soil was excavated to address this spillage. Minn. Stat. § 115C.09, subd. 1(b) (1990) states that costs related to the physical removal of a tank are not eligible for reimbursement.

The responsible party did not establish whether soil had also been impacted by a previous release.

Dated: January 16, 1991

Richard Svanda
Richard A. Svanda, P.E.
Director
Hazardous Waste Division

MINNESOTA PETROLEUM TANK RELEASE COMPENSATION BOARD

Application for Reimbursement

12-3-90

Site ID #: LEAK 00001962

PART I RESPONSIBLE PERSON

1. Name of "Responsible Person" or "Volunteer": (see application guide)

Independent School District #623

2. Mailing Address: 1251 West County Road B-2

Roseville, MN 55113

3. Phone: (612) 633-8150

4. The Responsible Person or Volunteer is a:

Corporation _____ Partnership _____

Individual _____ Other School District

5. When was the Responsible Person the owner or operator of the tank?

From 1951 to November, 1989

PART II ATTACHMENTS

Your application will be returned as incomplete unless it is accompanied by the following attachments: (see application guide)

1. The MPCA approval of the corrective action plan or closure letter.
2. Receipts or invoices for all costs listed in Part IV Eligible Costs.
3. A brief description of the inventory control methods used during the six months prior to the petroleum release. If you did not operate the tanks, please submit a letter so stating.

PART III TANK FACILITY

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

Lexington School

2. Tank Facility address: 1130 W. County Road B, Roseville, MN

3. Contact Person at Tank Facility: Mr. Len Copt

Phone: (612) 633-8150

4. Date when petroleum release occurred or was detected: (see application guide) November 5, 1989 (detected)

5. Date when petroleum release was reported to the MPCA: November 6, 1990

6. Please complete the following information on the tanks at this Tank Facility. (see application guide)

<u>Tank #</u>	<u>Capacity</u>	<u>Petroleum Product</u>	<u>"X" if removed</u>
<u>1</u>	<u>250</u>	<u>Fuel Oil</u>	<u>X</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>

7. What was the source of the release at this tank facility? (see application guide)

Spillage during filling operations and leakage due to tank corrosion.

8. What date was the MPCA notified of the existence of the tanks as required by Minnesota Statute 116.48? May 29, 1986

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

None

10. Did any of the persons listed in question 9 incur corrective action costs related to this petroleum release? yes/no If yes, list name, address and phone:

N/A

PART IV ELIGIBLE COSTS

1. For each "Eligible Cost" (see application guide) category given below, list all corrective actions taken, who performed the action, and the corresponding cost of the action. (Attach additional pages as necessary.)

A. **Investigation and source identification** including, but not limited to collecting and analyzing soil samples, testing the groundwater, testing adjacent drinking water supplies, tank integrity testing, and engineering services.

Corrective Action	Performed By	Cost
<u>Soil Sample Collection and Documentation</u>	<u>STS Consultants, Ltd.</u>	<u>\$ 722.06</u>
<u>Soil Sample Analysis</u>	<u>Pace Laboratories</u>	<u>\$ 320.00</u>
<u>Subsurface Exploration, Laboratory Analysis, and Report Preparation</u>	<u>STS Consultants, Ltd.</u>	<u>\$1,383.19</u>

B. **Preparation of a corrective action plan** in accordance with MPCA requirements.

Corrective Action	Performed By	Cost
<u>Petrofund Application</u>	<u>STS Consultants, Ltd.</u>	<u>\$ 250.00</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

C. **Cleanup of releases** including, but not limited to, removal, treatment, or disposal of surface and subsurface contamination and provision of a permanent alternative water supply. **Cleanup must be performed in accordance with a corrective action plan approved by the MPCA.**

Corrective Action	Performed By	Cost
<u>N/A</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Amount of contaminated soil excavated (cubic yards or tons): 1 cubic yard

Was it necessary for cleanup to excavate all of the soil? (yes/no)

What was the soil contamination concentration (total hydrocarbons)?

TPH = 4800 - 7600 ppm

Were soils contaminated at less than 10ppm as measured by a field instrument? yes/no

If any costs were incurred on an emergency or temporary basis, complete Sections D and E below:

- D. **Emergency response and initial site hazard mitigation.** Costs may include, but are not limited to those necessary to abate acute risks to human health, safety and the environment.

Corrective Action	Performed By	Cost
N/A		

- E. **Temporary site hazard control measures.** Costs may include, but are not limited to, temporary provision of drinking water and housing, initial abatement of vapors and removal of free product.

Corrective Action	Performed By	Cost
N/A		

2. Is the Responsible Person or Volunteer eligible under any insurance policies to recover cleanup arising from this petroleum release? yes/no

If yes, list the name of the insurance carrier, policy number and policy limits: (see application guide)

N/A

3. Total of all eligible costs listed above or \$1,000,000, whichever is less:

\$ 2,675.25	
X .90	
= \$ 2,407.73	
Insurance Reimbursement	<\$ -- >
Total Reimbursement Request (see application guide)	= \$ 2,407.73

4. At this time, do you anticipate incurring any ongoing corrective action costs relative to the petroleum release at this Tank Facility? yes/no
 If yes, explain briefly what work will be done and an approximate cost of that work.

N/A

PART V 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.)

A. Name of individual or firm: STC Consultants, Ltd.

Mailing address: 3650 Annapolis Lane

Minneapolis, MN 55447

Contact Person: Robert L. DeGroot, P.E. Phone: (612) 559-1900

B. Name of individual or firm: Pace Laboratories, Inc.

Mailing address: 1710 Douglas Drive North

Golden Valley, MN 55422

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

C. Name of individual or firm: Interpoll Laboratories, Inc.

Mailing address: 4500 Ball Road N.E.

Circle Pines, MN 55014

Contact Person: Greg Holman Phone: (612) 786-6020

D. 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:

None

PART VI CERTIFICATION (see application guide)


I certify under penalty of law that this document and 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 persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I understand that by filing this application with the Board I agree to return to the Board, upon its demand, the entire award I may receive or any lesser amount the Board considers appropriate if: (a) I knowingly misrepresented or omitted any fact relevant to the determinations made by the Board or Commissioner, oral or written; or (b) I fail to complete, to the commissioner's satisfaction, ongoing corrective action which may be underway where the Commissioner has determined, pursuant to Minn. Stat. 115C.09, subd. 2(b)(1) (1986a), that the tank release for which I may be reimbursed has been adequately addressed based on my representation that there is ongoing corrective action.

I further certify that I have the authority to submit this application on behalf of Independent School District #623
(entity)

X 
Signature of Responsible Person
or Volunteer

11-29-90
Date

LIFE SAFETY SUPERVISOR
Title (if applicant is not an
individual)

X Witnessed by: 
Name: _____
Date: 11-29-90

Please send this application and accompanying documents to:

**Robin Hanson
Petroleum Tank Release Compensation Board
MN Department of Commerce
133 East Seventh Street
St. Paul, MN 55101
(612) 297-4017**



May 18, 1990

Mr. Len Copt
Roseville Public Schools
1251 West County Road B-2
Roseville, MN 55113

MPCA, HAZARDOUS
WASTE DIVISION

STS Project 94941-YF

Re: Petroleum Tank Release Exploration at Lexington School, 1130 West County
Road B, Roseville, Minnesota - (LEAK NO. 00001962)

Dear Mr. Copt:

STS Consultants, Ltd. has completed the Petroleum Tank Release Exploration at Lexington School, 1130 West County Road B, Roseville, Minnesota. The scope of services provided by STS are outlined in Proposal P-2905 dated March 30, 1990 and subsequently modified at your verbal request of April 5, 1990. The revised scope of work was outlined in the STS letter dated April 11, 1990. The work was performed pursuant to your issuance of Purchase Order No. 73749.

The scope of work was designed based upon the recommendations by Mr. Chris Zadak of the Minnesota Pollution Control Agency (MPCA). The following information outlines the procedures employed and the results obtained from the site exploration at Lexington School. Conclusions and recommendations are also included, based upon the data obtained.

Introduction

A 250 gallon underground fuel oil storage tank was removed from service at Lexington School on November 5, 1989 (STS Project #94933-XF). An environmental geologist from STS Consultants was present to observe the tank removal. During the tank removal, approximately 1 to 2 gallons of product was estimated by the contractor to have leaked from the tank. After the removal, several 1 to 2 inch diameter corrosion holes were observed in the tank.

Soils impacted by the product which leaked during the removal process was removed with a shovel by the contractor. It was estimated approximately 1 cubic yard was removed and transported to a stockpile at Roseville High School. Chemical samples obtained from the base of the excavation and the soil stockpile had total petroleum hydrocarbons (TPH) as fuel oil detected at levels of 4800 parts per million (ppm) and 7600 ppm, respectively. No values above detection limits for benzene, ethylbenzene, toluene and xylene (BETX) were identified in either soil sample.

STS Consultants Ltd.
Consulting Engineers

3650 Annapolis Lane
Minneapolis, Minnesota 55447
612.559.1900/Fax 612.559.4507

Since impacted soils remained in the base of the excavation, additional work was recommended for the site. The Minnesota Pollution Control Agency letter dated March 27, 1990 recommended additional soil exploration and chemical analyses within the tank excavation to determine the vertical extent of contamination.

Exploration Procedures

On April 13, 1990, an STS environmental geologist utilized a hand auger to perform one boring (labeled B-1) to a depth of 9 feet within the backfilled tank excavation at Lexington School. The boring was sampled generally at 1 foot intervals. The boring location is shown on Figure 1, attached to this letter. Soil samples from the boring were classified in the field using the Unified Soil Classification System (USCS).

An HNU photoionization detection (PID) meter calibrated to a benzene reference was employed in the soil sampling process. Specifically, it was used to detect the presence of volatile organic compounds (VOC's) in the soil samples obtained. The PID analysis was performed in general accordance with Minnesota Pollution Control Agency (MPCA) suggested practices for soil sample screening.

Two soil samples were obtained for chemical analysis from the soil boring. Maximum PID meter readings were encountered between 4.5 and 6 feet. As specified in the MPCA letter, one soil sample (LEX 1) was obtained for chemical analysis between 5.5 and 6 feet. The second sample (LEX 2) was obtained at a depth of 8.5 to 9 feet. No elevated PID meter readings were detected in the second sample. Both soil samples were refrigerated and transported to Interpoll Laboratories in Circle Pines, Minnesota where they were analyzed for benzene, ethylbenzene, toluene and xylene (BETX) and total petroleum hydrocarbons (TPH) as fuel oil.

Exploration Results

Soils encountered in boring B-1 consisted of gravelly and silty sands (USCS Classification GM and SM) to a depth of approximately 6 feet. These soils were interpreted to be fill material. Silty clay (CL) with some peat (Pt) was encountered in boring B-1 from 6 to 9 feet. Boring log B-1 is attached to this letter.

PID meter readings of 1 to 2 parts per million (ppm) were detected in the soil samples between 0 and 8 feet. Background levels for the PID meter were 0 ppm. Very slight fuel oil odors were also detected from the surface to 7 feet. Maximum PID meter readings of 2 ppm were detected in the two samples obtained between 4.5 and 6.0 feet. No fuel oil odors or PID meter readings above background levels were encountered below 8 feet.

Soil Chemical Analysis - The chemical analysis performed on the soil samples obtained from the boring revealed no concentrations exceeding target detection limits for any of the parameters analyzed. The laboratory chemical analysis reports are included at the end of this letter.

Conclusions

The only evidence for fuel oil impacts encountered in this exploration at the Lexington School site were minor olfactory detection and PID meter readings slightly exceeding background levels. Soil chemical analysis performed on two samples obtained from the boring indicate no petroleum impacts exceeding target detection limits for benzene, ethylbenzene, toluene and xylene (BETX) or total petroleum hydrocarbons (TPH) as fuel oil. Olfactory detection of fuel oil odors was not encountered below 8 feet. Groundwater at the site is estimated to be at approximately 20 feet below the ground surface based on data from other STS soil borings performed in the area. A silty clay layer encountered between 6 and 9 feet is likely to provide a barrier between the groundwater and any impacts resulting from the previously existing tank.

Recommendations

Soil impacts at the site resulting from the previously existing fuel oil tank appear to be minor and limited in vertical extent, based upon the data obtained in this site exploration. STS therefore recommends MPCA closure of the Lexington School site in Roseville, Minnesota.

General Qualifications

The analysis and conclusions included in this report are based upon data from one hand auger soil boring, two soil chemical analyses and the Tank Removal Documentation Report dated December 18, 1989 (STS Project No. 94933-XF). Variations in soil classification and contaminant content may occur in areas in which borings were not performed, the nature and extent of which may not become evident without further exploration. Any inferred information around the boring is based upon extrapolation from the soil boring data only.

This report was prepared using currently accepted engineering and geological practices to assist the client in the evaluation of the property. No other warranty, expressed or implied, is made. Our scope of this project is limited to the specific project and locations described herein. Our description of the project represents our understanding of the site conditions at the time we performed our services.


STS is pleased to have been of service to you on this project. If you have any questions regarding the work performed at Lexington School, please contact us at 559-1900.

Sincerely,

STS CONSULTANTS, LTD.



Loren M. Hubert
Environmental Geologist



Robert L. DeGroot, P.E.
Principal Engineer

LMH/dj
Encs.

APPENDIX

- 1. Soil Boring Location Diagram**
- 2. Boring Log**
- 3. Interpoll Laboratory Test Results**

CO. RD. B

grass



BITUMINOUS PARKING LOT

BACKFILLED TANK
EXCAVATION

B-1

CHIMNEY

grass

LEXINGTON SCHOOL

LOADING DOCK
AREA

Note: Map locations are approximate.



STS Consultants Ltd.
Consulting Engineers

PROJECT/CLIENT

**BORING LOCATION DIAGRAM,
LEXINGTON SCHOOL,
ROSEVILLE, MINNESOTA**

ROSEVILLE ISD #623

DRAWN BY

LMH

CHECKED BY

APPROVED BY

SCALE 1"=5'

FIGURE NO.

1

STS DRAWING NO.

94941-YF



STS Consultants Ltd.

OWNER

Roseville, ISD #623

PROJECT NAME

Lexington School

LOG OF BORING NUMBER

B - 1

ARCHITECT ENGINEER

SITE LOCATION

1120 W. Co. Rd. B
Roseville, MN

DEPTH IN FEET	SAMPLE NO	SAMPLE TYPE	SAMPLE DISTANCE	RECOVERY	DESCRIPTION OF MATERIAL	Penetration standard blows per foot	In situ meter deflection [ppm]									
							0	5	10	15	20	25	30			
					SURFACE ELEVATION											
	1	AS			Gravelly sand, little silt - loose - moist - brown to gray - (GM) (fill)	1										
	2	AS				1										
	3	AS			Silty sand, trace to little clay, trace gravel - loose - moist - brown - (SM) (fill)	1										
- 5 -	4	AS				2										
	5	AS				2										
	6	AS			Silty clay, trace to little sand, trace gravel - soft - moist - brown - (CL)	1										
	7	AS				1										
	8	AS				0										
- 10 -					Peat and clay, trace sand, trace silt, trace gravel - soft - moist - black to brown - (Pt-CL)											
					End of boring at 9.0 feet. Boring hand augered to full depth. PID calibrated to a benzene reference. Background level = 0 parts per million. Fuel oil odors detected from surface to 8.0 ft. No water encountered.											
- 15 -																
- 20 -																
- 25 -																
- 30 -																

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN SITU, THE TRANSITION MAY BE GRADUAL

WL	WS OR WD	BORING STARTED	4/13/90	STS OFFICE	Minneapolis	
WL	BCR	ACR	BORING COMPLETED	4/13/90	DRAWN BY	CYO
WL	Not Encountered		RIG	N/A	FOREMAN	LMH
				APP'D BY	LMH	STS JOB NO.
						94941-YF



INTERPOLL LABORATORIES, INC.
4500 BALL ROAD N.E.
CIRCLE PINES, MINNESOTA 55014-1819
TEL: 612/786-6020
FAX: 612/786-7854

May 3, 1990

STS Consultants
3650 Annapolis Lane
Minneapolis, MN 55441

Attention: Loren Hubert

LABORATORY REPORT: #9342
STS PROJECT: #94941-YF

SAMPLES COLLECTED: April 13, 1990
SAMPLES RECEIVED: April 13, 1990

Sample Identification:	Lex 1	Lex 2
Sample Type:	Soil	Soil
Laboratory Log Number:	<u>9342-01</u>	<u>9342-02</u>

<u>Parameter</u>	<u>Units</u>	<u>Target Detection Limit</u>		
EPA Method SW-846, 8020:				
Benzene	mg/Kg	0.06	< 0.06	< 0.06
Toluene	mg/Kg	0.11	< 0.11	< 0.11
Ethylbenzene	mg/Kg	0.05	< 0.05	< 0.05
Xylenes	mg/Kg	0.28	< 0.28	< 0.28
Modified SW-846 Method 3820:				
Total hydrocarbons, as fuel oil	mg/Kg	1.4	< 1.4	< 1.4