

RECEIVED  
D.E.M. / O.W.M.

2004 MAY 17 A 11:55

LETTER OF TRANSMITTAL

May 14, 2004

Mr. Bruce Catterall  
Rhode Island Department of Environmental Management  
235 Promenade Street  
Providence, Rhode Island 02908

Re: Underground Storage Tank Closure Assessment

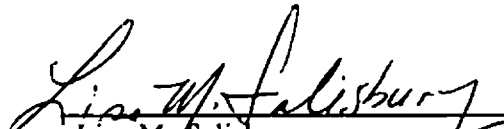
The following items are via U.S. Mail

Description	No. of Copies
Underground Storage Tank Closure Assessment Report	1

The item(s) are transmitted: ☒ At your request ☒ For your action  
☐ For your review/comment ☐ For your files  
☐ For your approval ☐ For your information

Comments:

Sincerely,

  
 Lisa M. Salisbury  
 Project/Administrative Assistant II

RECEIVED  
D.E.M. / O.W.M.

2004 MAY 17 A 11: 55

**UNDERGROUND STORAGE TANK  
CLOSURE ASSESSMENT REPORT  
60 Curtis and 100 Bosworth Street  
Providence, Rhode Island  
LFR Project No. 081-12191-00  
UST Facility ID# 03472**

**May 2004**

Prepared for:

City of Providence  
Department of Planning and Development  
400 Westminister Street  
Providence, Rhode Island 02903

Prepared by:

LFR Levine Fricke  
250 Centerville Road  
Building E, Suite 12  
Warwick, Rhode Island 02886  
401-738-3887



## TABLE OF CONTENTS

1.0 INTRODUCTION .....	1
2.0 BACKGROUND DESCRIPTION.....	1
3.0 LOCUS MAP .....	1
4.0 SITE PLAN .....	1
5.0 UST DESCRIPTION .....	1
6.0 UST CONDITION .....	2
7.0 SITE PHOTOGRAPHS .....	2
8.0 SOIL CONDITIONS .....	2
9.0 GROUNDWATER DESCRIPTION .....	3
10.0 SOIL AND/OR UST DISPOSAL.....	3
11.0 CONCLUSION .....	4
12.0 CERTIFICATION.....	5
12.1 Registered Professional Engineer Certification .....	5
12.2 Owner/ Operator Representative Certification .....	6

## **1.0 INTRODUCTION**

This closure assessment report was prepared for the removal of an underground storage tank (UST) at 100 Bosworth and 60 Curtis Street, Providence, Rhode Island on April 8, 2004. The UST Facility ID # is 03472. The site was vacant at the time of the tank removal. Clean Harbors initiated closure activities, then notified DEM upon discovery of evidence of a release from the UST. DEM requested that a UST Closure Assessment Report be completed. The City of Providence retained LFR to prepare this Closure Assessment Report.

## **2.0 BACKGROUND DESCRIPTION**

A 10,000-gallon steel UST used to store No. 4 fuel oil was removed from the Site on April 8, 2004. The tank was removed by Clean Harbors of Providence, Rhode Island. The tank removal was observed by Paul Keitz of LFR. The Site is currently vacant. The excavation area is located on the northeastern portion of the Site, adjacent to Curtis Street. Residential properties are located north and west of the Site. The Colony Casket Company is located east of the Site, and to the south is the area being redeveloped as Riverside Park, beyond which is the Woonasquatucket River. We observed a groundwater monitoring well in the paved driveway to the east of the tank grave.

## **3.0 LOCUS MAP**

A Locus Map of the Site is provided as Appendix A.

## **4.0 SITE PLAN**

A Site Plan is provided as Appendix B.

## **5.0 UST DESCRIPTION**

One UST was removed from the Site. The UST was identified during an assessment by another consultant. The site building has been demolished, and the UST was apparently formerly used to store heating oil for the building. Since the tank was no longer being used, it was removed. The UST was a 10,000 gallon steel tank and which was used to store No. 4 fuel oil.

## 6.0 UST CONDITION

The UST contained a mixture of oil and water which was pumped out prior to removal and the UST was then cleaned. The oil and water mixture was removed from the site by Clean Harbors. The UST was in poor condition, with numerous pits. In addition, an area approximately 0.5 feet long had been repaired on both ends of the tank. The UST appears to have been leaking. Documentation of the disposal of the liquid is provided in Appendix E.

## 7.0 SITE PHOTOGRAPHS

Photographs of the Site are provided as Appendix C.

## 8.0 SOIL CONDITIONS

The soil at the Site was observed to be light brown medium to coarse sand. Evidence of contamination was observed in the tank grave; black staining of the soil was observed and a petroleum odor was detected. Soil samples were collected and screened for volatile organic compounds (VOCs) using a Hnu photoionization detector (PID) equipped with a 11.7 eV lamp. Results ranged from 0.5 ppm to 136 ppm and are provided in Table 1.

Samples of soil from the soil piles created during the removal of the UST were screened for organic vapors. The results of the PID screening ranged from 47.5 ppm to 71.5 ppm for the north pile, and from 14.8 to 35 for the south pile. The Rhode Island Department of Environmental Management re-use criteria for tank grave fill located in a GB groundwater area is 40 parts per million (ppm). Therefore, soil from the south pile was re-used as backfill, but soil from the north pile was placed on polyethylene film, and covered with polyethylene until off-site disposal could be arranged.

Based upon the results of the field screening and observation of the stained soil, samples were collected and submitted to Con-test Analytical Laboratory, in East Longmeadow, Massachusetts for laboratory analysis. All of the samples were submitted for analysis for total petroleum hydrocarbons (TPH), via method 8100M. Soil samples were collected in laboratory supplied containers with appropriate preservatives and transported under chain of custody forms. A copy of the analytical results is provided as Appendix D, and is summarized in Table 1.

Because of the soil conditions observed in the tank grave, a test pit was dug approximately 50 feet downgradient (in the direction of the river) from the tank grave, to determine soil conditions in that area. Petroleum staining was observed in the test pit, and groundwater in the test pit was observed to have a brown-black petroleum sheen similar to the sheen observed in the tank grave. Soil from the test

pit was screened for organic vapors using the PID, and a sample was collected for laboratory analysis.

**Table 1 Results of Soil Screening and Analysis**  
**60 Curtis and 100 Bosworth Street, Providence, Rhode Island**

Sample ID	PID Reading (PPM)	TPH (mg/kg)
North pile	47.5, 63.2, 71.5	NA
South pile	14.8, 34, 18.2	NA
Tank grave-North	10.6	330
Tank grave-South	0.5	ND
Tank grave-East	37.6	570
Tank grave-West	136	3000
Test pit	78.1	2100

## 9.0 GROUNDWATER DESCRIPTION

Groundwater was encountered at approximately 8 feet below grade during the removal of the tank and appeared to have dark brown oily sheen on the surface. In addition, a test pit was dug approximately 50 feet downgradient of the tank grave, down to the water table (approximately 8 feet). The groundwater in the test pit also appeared to have dark brown oily sheen on the surface.

According to the Rhode Island Drinking Water Supply Map, groundwater beneath the site is classified as *GB*, which indicates that the water is known or presumed unsuitable for direct human consumption without treatment. The site and surrounding area is serviced with public drinking supplied by the City of Providence.

## 10.0 SOIL AND/OR UST DISPOSAL

During the UST removal two soil piles were generated. PID readings from the excavated soil pile to the North of the tank grave ranged from 47.5 to 71.5 ppm and readings from the South soil pile ranged from 14.8 to 34 ppm. PID values from the North pile exceeded the criteria for on site reuse of excavated soil (40 ppm). The North soil pile was stored on and completely covered by a thick gauge polyethylene sheet until removal from the site. The North soil pile was removed from the site by Clean Harbors. Documentation of the disposal of the soil is provided in Appendix E.

Screening of soil samples from the south soil pile found PID readings below the reuse criteria, therefore, this soil was used as backfill in the excavation area.

According to the UST removal contractor, the UST was taken to State Line Scrap for disposal. Documentation of the disposal of the tank is provided in Appendix E.

## **11.0 CONCLUSION**

Based on the observations made during the removal of the UST at Bosworth and Curtis Street, Providence, Rhode Island, LFR recommends additional investigation at this Site.

## 12.0 CERTIFICATION

### 12.1 Registered Professional Engineer Certification

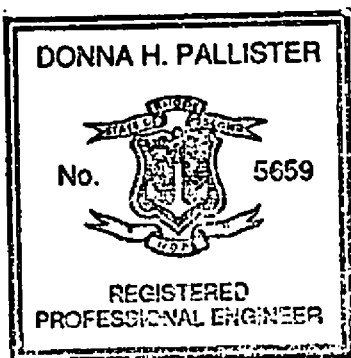
Based on my observations and observations of personnel working under my direction, I certify that the information contained in this report is accurate and complete.



Donna H. Pallister, PE

Date: 5/11/04

Stamp:





Closure Assessment Report  
Bosworth and Curtis Street, Providence, RI

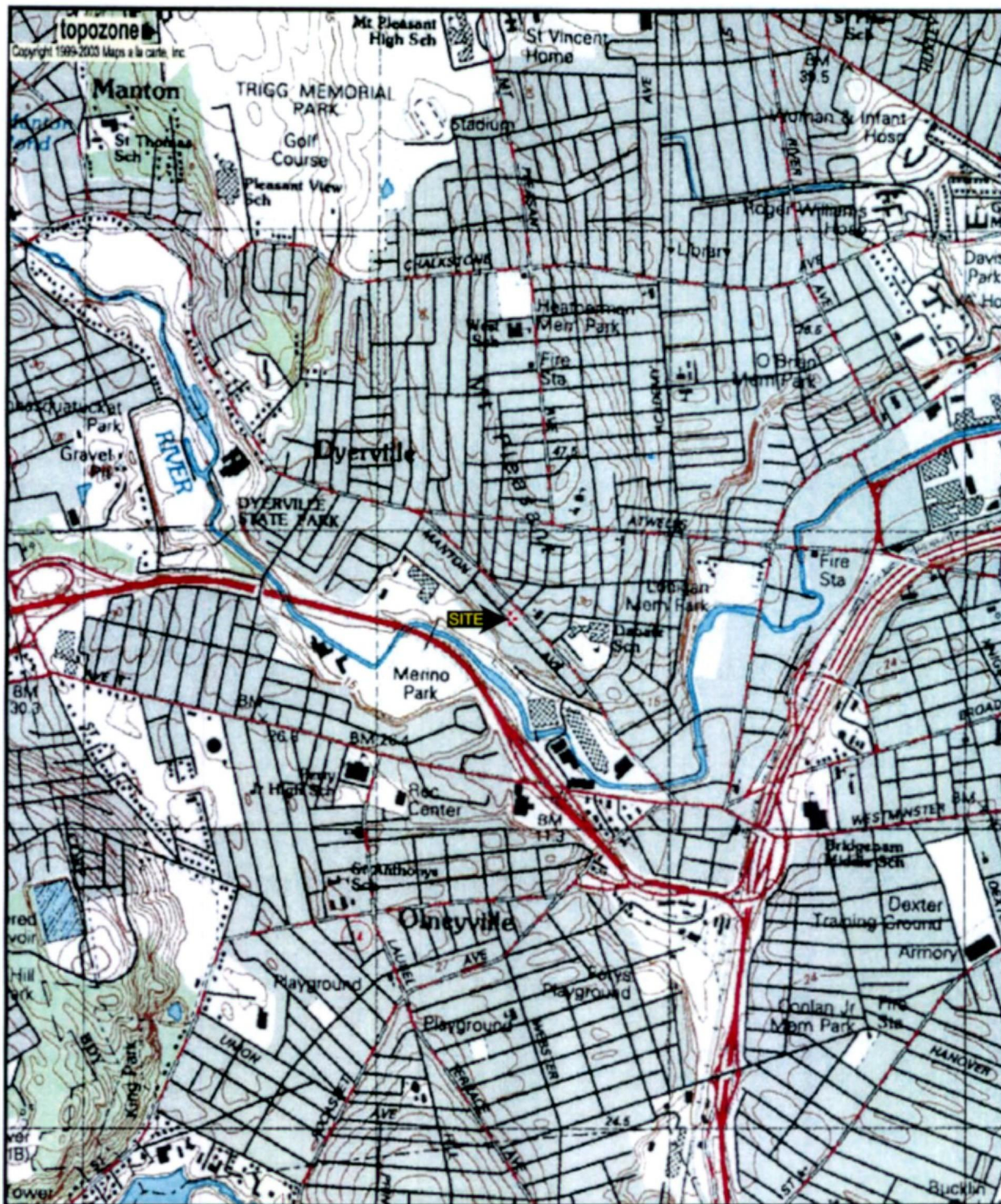
## 12.2 Owner/ Operator Representative Certification

Based on my knowledge of the site, and information presented to me by others, this report is complete and accurate.

By: James E. DeHar Date: 5/11/04



**APPENDIX A**  
**LOCUS MAP**



0 0.3 0.6 0.9 1.2 1.5 km  
0 0.2 0.4 0.6 0.8 1 mi

Map center is UTM 19 296493E 4632933N (WGS84/NAD83)



250 Centerville Road  
Building E, Suite 12  
Warwick, Rhode Island 02886  
Phone: (401) 738-3887  
Fax: (401) 732-1686

DATE: 4/23/04  
DRAWN BY: C.T.  
REVIEWED BY: A.L.  
APPROVED BY: A.L.  
SCALE: AS NOTED  
FILE NO: 081-12191-00  
JOB NO: 081-12191-00

# TITLE: **SITE LOCATION MAP**

LOCATION:  
**CURTIS STREET  
PROVIDENCE, RHODE ISLAND**

FIGURE:

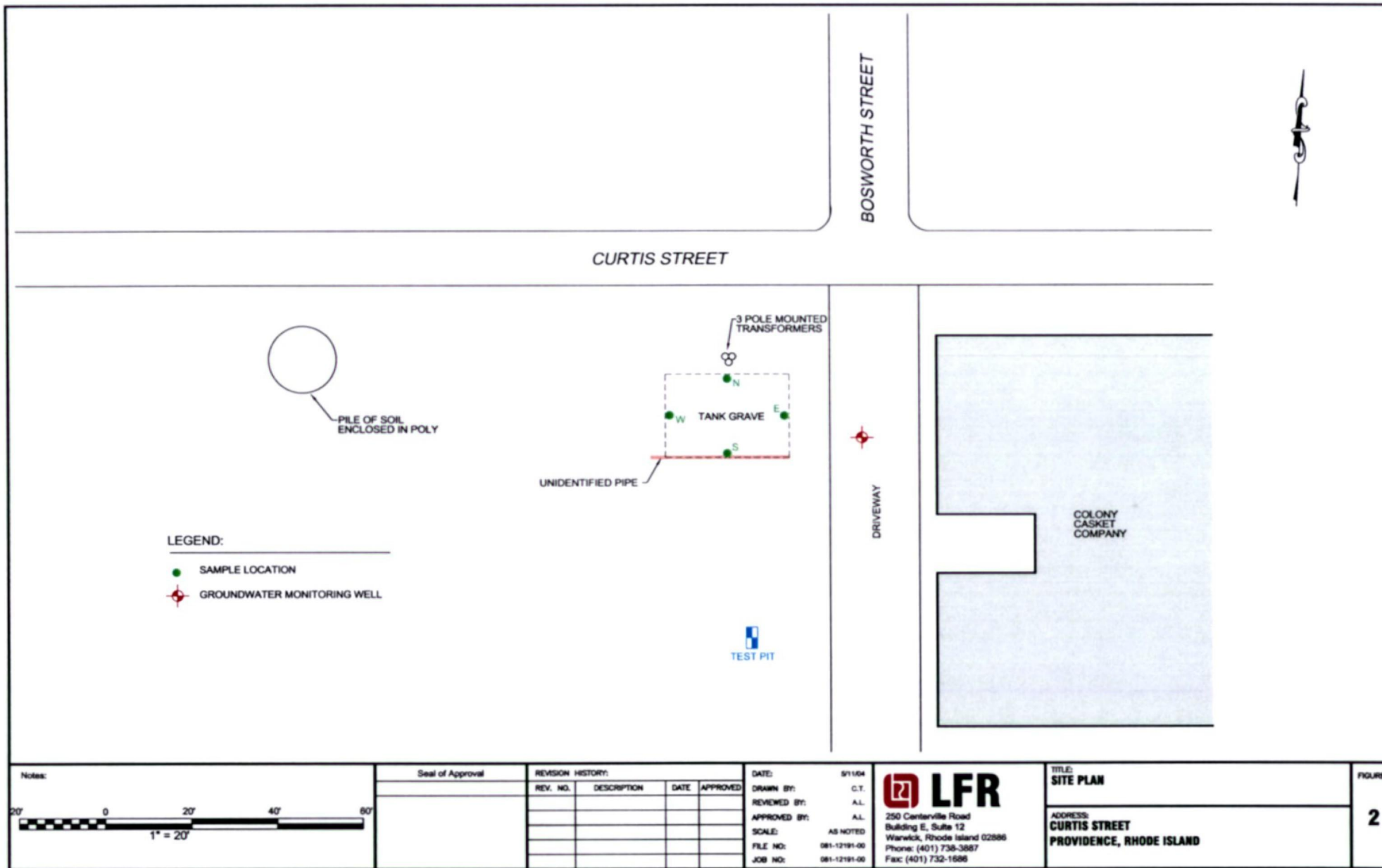
**1**



**APPENDIX B**

**SITE PLAN**









**APPENDIX C**  
**PHOTOGRAPHS**



1

View of the tank before removal.



2

View of the tank after removal.





3

View of groundwater in tank grave.



4

View of the tank.

2

**APPENDIX D**  
**ANALYTICAL RESULTS**



39 Spruce Street \* 2nd Floor \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

REPORT DATE 4/16/2004

LEVINE FRICKE  
250 CENTERVILLE RD., BLDG. E, SUITE 12  
WARWICK, RI 02886  
ATTN: DONNA PALLISTER

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMS-78123

JOB NUMBER: -

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: CURTIS ST/BOSWORTH ST, PROV

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
EAST	04B09349	SOIL	TANK-GRAVE EAST	solids (percent)
EAST	04B09349	SOIL	TANK-GRAVE EAST	tph gc dry 8100m
NORTH	04B09347	SOIL	TANK GRAVE-NORTH	solids (percent)
NORTH	04B09347	SOIL	TANK GRAVE-NORTH	tph gc dry 8100m
SOUTH	04B09348	SOIL	TANK GRAVE-SOUTH	solids (percent)
SOUTH	04B09348	SOIL	TANK GRAVE-SOUTH	tph gc dry 8100m
TEST PIT	04B09351	SOIL	TEST PIT	solids (percent)
TEST PIT	04B09351	SOIL	TEST PIT	tph gc dry 8100m
WEST	04B09350	SOIL	TANK GRAVE-WEST	solids (percent)
WEST	04B09350	SOIL	TANK GRAVE-WEST	tph gc dry 8100m

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033	AIHA ELLAP (LEAD) 100033	FLORIDA NELAP E87889
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	ARIZONA AZ0648
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	ARIZONA AZ0654 (AIR)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

*Edward Denson* 4/16/04

SIGNATURE

DATE

Tod Kopyscinski  
Director of Operations

Sondra S. Kooft  
Quality Control Coordinator

Edward Denson  
Technical Director



39 Spruce Street \* 2nd Floor \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

DONNA PALLISTER

LEVINE FRICKE

250 CENTERVILLE RD., BLDG. E, SUITE 12

WARWICK, RI 02886

Purchase Order No.:

Project Location: CURTIS ST/BOSWORTH ST, PROV

Date Received: 4/12/2004

4/16/2004

Page 1 of 6

LIMS-BAT #: LIMS-78123

Job Number: -

Field Sample #: EAST

Sample ID: 04B09349

Sampled: 4/9/2004

TANK-GRAVE EAST

Sample Matrix: SOIL

	Units	Results	RL	Method	Date Analyzed	Analyst
solids (pe				SM 2540G		
Solids, total	%	92.1			04/15/04	KFD
tph gc dry				MODIFIED SW846 8100		
Unknown Hydrocarbons	mg/kg dry wt	570.	450.		04/16/04	JB

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

\* = See end of report for comments and notes applying to this sample



39 Spruce Street \* 2nd Floor \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

DONNA PALLISTER

LEVINE FRICKE

250 CENTERVILLE RD., BLDG. E, SUITE 12

WARWICK, RI 02886

Purchase Order No.:

4/16/2004

Page 2 of 6

Project Location: CURTIS ST/BOSWORTH ST, PROV

LIMS-BAT #: LIMS-78123

Date Received: 4/12/2004

Job Number: -

Field Sample #: NORTH

Sample ID: 04B09347

Sampled: 4/9/2004

TANK GRAVE-NORTH

Sample Matrix: SOIL

	Units	Results	RL	Method	Date Analyzed	Analyst
solids (pe				SM 2540G		
Solids, total	%	89.1			04/15/04	KFD
tph gc dry				MODIFIED SW846 8100		
Unknown Hydrocarbons	mg/kg dry wt	330.	94.		04/16/04	JB

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

\* = See end of report for comments and notes applying to this sample





39 Spruce Street \* 2nd Floor \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

DONNA PALLISTER  
LEVINE FRICKE  
250 CENTERVILLE RD., BLDG. E, SUITE 12  
WARWICK, RI 02886

Purchase Order No.:

4/16/2004

Page 3 of 6

Project Location: CURTIS ST/BOSWORTH ST, PROV

Date Received: 4/12/2004

LIMS-BAT #: LIMS-78123

Job Number: -

Field Sample #: SOUTH

Sample ID: 04B09348

Sampled: 4/9/2004

TANK GRAVE-SOUTH

Sample Matrix: SOIL

	Units	Results	RL	Method	Date Analyzed	Analyst
solids (pe				SM 2540G		
Solids, total	%	90.4			04/15/04	KFD
tph gc dry				MODIFIED SW846 8100		
Unknown Hydrocarbons	mg/kg dry wt	ND	9.2		04/16/04	JB

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

\* = See end of report for comments and notes applying to this sample



39 Spruce Street \* 2nd Floor \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

DONNA PALLISTER

LEVINE FRICKE

250 CENTERVILLE RD., BLDG. E, SUITE 12

WARWICK, RI 02886

Purchase Order No.:

4/16/2004

Page 4 of 6

Project Location: CURTIS ST/BOSWORTH ST, PROV

Date Received: 4/12/2004

LIMS-BAT #: LIMS-78123

Job Number: -

Field Sample #: TEST PIT

Sample ID: 04B09351

Sampled: 4/9/2004

TEST PIT

Sample Matrix: SOIL

	Units	Results	RL	Method	Date Analyzed	Analyst
solids (pe				SM 2540G		
Solids, total	%	86.4			04/15/04	KFD
tph gc dry				MODIFIED SW846 8100		
Unknown Hydrocarbons	mg/kg dry wt	2100.	480.		04/16/04	JB

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

DONNA PALLISTER

LEVINE FRICKE

250 CENTERVILLE RD., BLDG. E, SUITE 12

WARWICK, RI 02886

Purchase Order No.:

4/16/2004

Page 5 of 6

Project Location: CURTIS ST/BOSWORTH ST, PROV

Date Received: 4/12/2004

LIMS-BAT #: LIMS-78123

Job Number: -

Field Sample #: WEST

Sample ID: 04B09350

Sampled: 4/9/2004

TANK GRAVE-WEST

Sample Matrix: SOIL

	Units	Results	RL	Method	Date Analyzed	Analyst
solids (pe				SM 2540G		
Solids, total	%	92.2			04/15/04	KFD
tph gc dry				MODIFIED SW846 8100		
Unknown Hydrocarbons	mg/kg dry wt	3000.	450.		04/16/04	JB

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

\* = See end of report for comments and notes applying to this sample



39 Spruce Street \* 2nd Floor \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

DONNA PALLISTER  
LEVINE FRICKE  
250 CENTERVILLE RD., BLDG. E, SUITE 12  
WARWICK, RI 02886

Purchase Order No.:

Project Location: CURTIS ST/BOSWORTH ST, PROV  
Date Received: 4/12/2004

4/16/2004  
Page 6 of 6

LIMS-BAT #: LIMS-78123  
Job Number: -

\*\* END OF REPORT \*\*

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

\* = See end of report for comments and notes applying to this sample



39 Spruce Street \* 2nd Floor \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

#### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 4/16/2004

Lims Bat #: LIMS-78123

Page 1 of 2

QC Batch Number: GC/FID-10572

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-59284	Unknown Hydrocarbons	Blank	<8.3	mg/kg dry wt	
LFBLANK-31734	Unknown Hydrocarbons	Lab Fort Blank Amt.	33.3	mg/kg dry wt	
		Lab Fort Blk. Found	23.7	mg/kg dry wt	
		Lab Fort Blk. % Rec.	71.2	%	



39 Spruce Street \* 2nd Floor \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

#### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 4/16/2004

Lims Bat #: LIMS-78123

Page 2 of 2

#### QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken through all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



**www.contestlabs.com**

Line # 78/23

Page \_\_\_\_ of \_\_\_\_

☐ yes \_\_\_\_\_ proposal date

**Client PO #**

**DATA DELIVERY (check one):**☐ FAX    ☐ EMAIL    ☐ WEBSITE CLIENT

Fax #:

Email: \_\_\_\_\_

Format: ☐ EXCEL ☐ PDF ☐ GIS KEY**Date Sampled**

Relinquished by: (signature) <i>[Signature]</i>	Date/Time:	<b>Turnaround</b> <input type="checkbox"/> 24 Hour* <input type="checkbox"/> 48 Hour* <input type="checkbox"/> 72 Hour* <input checked="" type="checkbox"/> Std. <input type="checkbox"/> Other** _____ Date needed**	<b>Detection Limit Requirements</b> Regulations? _____ _____ Data Enhancement Project? <input type="checkbox"/> Y <input type="checkbox"/> N (MA MCP sites only) Special Requirements or DL's: _____ _____	<b>*Matrix Code:</b> GW= groundwater WW= wastewater DW= drinking water A = air S = soil/solid SL = sludge O = other _____	<b>**Preservation Codes:</b> I = Iced      X = Na hydroxide H = HCL      T = Na thiosulfate M = Methanol N = Nitric Acid S = Sulfuric Acid B = Sodium bisulfate O = Other <i>None</i>
Received by: (signature) <i>[Signature]</i>	Date/Time: 4/12/04 9:45				
Relinquished by: (signature) <i>[Signature]</i>	Date/Time: 4/12/04 12:20				
Received by: (signature) <i>[Signature]</i>	Date/Time: 4/12 12:26				

***Con-Test Laboratory is the ONLY independent laboratory in all of New England with both prestigious AIHA and NELAC Certifications!***





**APPENDIX E**  
**DISPOSAL DOCUMENTATION**

May 04 04 07:14a

HALLAMORE RI

RHODE ISLAND  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

235 Promenade Street, Providence, RI 02908-5767

TDD 401-222-4462

March 30, 2004

Mr. Alan Sepe  
Director of Public Property  
Providence City Hall  
25 Dorrance Street  
Providence, RI 02903

Dear Mr. Sepe:

RE: Underground Storage Tank Closure; UST Facility ID#03472-  
PRA Property, 100 Bosworth/60 Curtis Street, Providence

The Office of Waste Management has reviewed the Permanent Closure Application For Underground Storage Tank(s) for the above referenced property. The following UST(s) are approved to be closed on Thursday, April 8, 2004.

UST #	VOLUME	STORED MATERIAL	REMOVAL/ FILL IN PLACE
001	10,000	heating oil	removal

All USTs are to be removed and/or handled as described in the closure application. This approval letter along with a copy of the UST Closure Application must accompany the tank(s) during transit to the proper disposal facility.

IF ANY CONTAMINATION IS FOUND IN THE VICINITY OF OR AROUND THE SUBJECT UST(S), IMMEDIATE NOTIFICATION TO THIS OFFICE IS REQUIRED (401-222-2797).

Because the referenced UST(s) contained heating oil that was consumed only on-site, it is not subject to Closure Assessment requirements unless evidence of a release is discovered during the closure process. If a Closure Assessment is performed, it must be in accordance with the requirements outlined in the Regulations for Underground Storage Facilities Used for Petroleum Products and Hazardous Materials, (UST Regs.).

Enclosed you will find an Owner's Verification of Permanent Closure of Underground Storage Tank(s) form. This form, along with a copy of the UST disposal slip must be completed and returned to Nancy Langlois of this office within seven (7) days of the scheduled tank closure.

You or your representative are required to contact the DEM UST Program on the day of the UST closure for verification. Please call (401)222-2797 if you have any questions regarding the above.

Sincerely,

*Bruce T. Catterall*  
Bruce T. Catterall, P.E.  
Supervising Engineer  
UST Management Program  
Office of Waste Management

BTC/NAL/Enclosure  
cc: Bill Howard, Clean Harbors

Rec'd @  
SLS  
4/9/04

*PAC*

# STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

Shipper No. B 0216

Carrier No. \_\_\_\_\_

Date 4/26/04

SAC Trucking  
(Name of Carrier)

Consignee ENVIRONMENTAL SOIL  
 Street 67 INTERNATIONAL DR  
 Destination London, NH  
 FROM: Shipper City of Providence  
 Street 60 Bismuth ST  
 Origin Providence, RI  
 Emergency Response Phone No. 800-445-8265 Vehicle Number \_\_\_\_\_

Shipping Units	HM	Kind of Packaging, Description of Articles, Special Marks and Exceptions	Weight (subject to correction)	Rate	CHARGES
<u>OT</u>		<u>Nonhazardous Contaminated Soil for Recycling</u>	<u>20</u>	<u>Y</u>	
		<u>ESM 15 ARTHUR AVENUE</u>			
		<u>Lotus TONS: 26.48</u>			
		<u>4/26/04 11:17 am</u>			

For Freight, Insurance, and other charges, see Bill of Lading, and for conditions of carriage, see the back of this Bill of Lading. The carrier shall not make delivery of the goods without payment of the freight and other charges.

SHIP TO: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 C.O.D. FEE: \_\_\_\_\_  
 PREPAID ☐ COLLECT ☐ \$ \_\_\_\_\_

Where the rate is dependent on value, shippers are required to state specifically in writing the amount of value of the property. The carrier shall not make delivery of the goods without payment of the freight and other charges. The carrier shall not make delivery of the goods without payment of the freight and other charges.

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and despatched as indicated above in said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract to carry to its usual place of delivery at said destination or on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any part of said route to destination as to each party at any time interested in all or any said property and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the Bill of Lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns. NOTICE: Freight moving under this Bill of Lading is subject to the classifications and lawfully filed tariffs in effect on the date of this Bill of Lading. This notice supersedes and negates any claimed usage or asserted oral or written contract, promise, representation or understanding between the parties with respect to this freight, except to the extent of any written contract which establishes a different usage or contract.

VT # 3106

COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS MATERIALS  
One Winter Street Boston, Massachusetts 02108

NR533

Please print or type. (Form designed for use on elastic (12-pitch) typewriter)

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. <b>RI000000000</b>		Manifest Document No. <b>78026</b>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address <b>Providence City of City Hall, rm 407 25 Dorrance Street Providence, RI 02903-0000</b>						A. State Manifest Document Number <b>MAQ 478026</b>							
4. Generator's Phone ( ) <b>401 421-7740</b>						B. 1000 North Street Providence, RI 02903							
5. Transporter 1 Company Name <b>Clean Harbors Env Services Inc</b>						C. State Trans. ID <b>ME 619475</b>							
6. US EPA ID Number <b>MAD039322250</b>						D. Transporter's Phone ( ) <b>(781) 849-1800</b>							
7. Transporter 2 Company Name						E. State Trans. ID							
8. US EPA ID Number						F. Transporter's Phone ( )							
9. Designated Facility Name and Site Address <b>Murphy's Waste Oil Services Inc 252 Salem Street Woburn, MA 01801-0000</b>						G. State Facility's ID <b>NOT REQUIRED</b>							
10. US EPA ID Number <b>MAD066588005</b>						H. Facility's Phone ( ) <b>(800) 522-4645</b>							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. <b>Petroleum oil, COMB, NA1270, PG III, COMBUSTIBLE LIQUID</b>						01 TT		1830		G		HA01 RI10	
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.) <b>(L), (T), (ERG#128)</b>						K. Handling Codes for Wastes Listed Above <b>S102</b>							
a. <b>Off-spec. motor used oil</b>						b.							
c.						d.							
16. Special Handling Instructions and Additional Information <b>11a MURPHYOIL</b>						IN EMERGENCY, CALL CHES 1-800-645-8261 wo# RI758732							
17. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this document are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is practicable for my firm that I can afford.													
Printed/Typed Name <b>ALAN SAGE</b>						Signature <b>Alan Sage</b>						Date Month Day Year <b>05/08/04</b>	
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name <b>DAVID A. BLINKHORN</b>						Signature <b>David A Blinkhorn</b>						Date Month Day Year <b>04/08/04</b>	
18. Transporter 2 Acknowledgment of Receipt of Materials Printed/Typed Name						Signature						Date Month Day Year	
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name <b>Stanley Osinski</b>						Signature <b>Stanley Osinski</b>						Date Month Day Year <b>04/08/04</b>	

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.