



LEGACY ENVIRONMENTAL SERVICES, INC.

P.O. Box 4560, Greensboro, NC 27404-4560, Phone (910) 316-0452, FAX (910) 299-1961

April 25, 1994

North State Chevrolet
451 N. Eugene Street
Greensboro, North Carolina 27403

Attention: Mr. Jerry McPherson, Service & Parts Director

Reference: UST Closure Report
North State Chevrolet
451 N. Eugene Street
Greensboro North Carolina

Dear Mr. McPherson:

Please find enclosed a report summarizing the Underground Storage Tank (UST) closure project for one (1) 550 gallon waste oil UST previously located at the above referenced facility. The UST closure and closure assessment consisted of tank removal, field sampling and laboratory analyses of the soils in the vicinity of the underground storage tank. A summary of these activities and our conclusions are summarized herein.

If you have questions regarding this report, please contact our office.

Sincerely,

Susan G. Feir
Project Manager

Henry Nemargut, P.E.
Chemical Engineer



UST CLOSURE ASSESSMENT
NORTHSTATE CHEVROLET
451 N. EUGENE STREET
GREENSBORO, NORTH CAROLINA

APRIL 25, 1994

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LEGACY ENVIRONMENTAL SERVICES, INC.



UST CLOSURE REPORT
NORTH STATE CHEVROLET
451 N. EUGENE STREET
GREENSBORO, NORTH CAROLINA

APRIL 25, 1994

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UST CLOSURE REPORT

North State Chevrolet
451 N. Eugene Street
Greensboro, North Carolina

1.0 Introduction and Background

1.1 Introduction

The North State Chevrolet facility is located at 451 N. Eugene Street in the City of Greensboro, in the County of Guilford, North Carolina. Figure 1 illustrates the project location. This facility formerly operated one (1) 550 gallon waste oil UST. A decision was made by North State Chevrolet to remove this tank in accordance with the requirements of 2N NCAC 15A.

Eaton's Petroleum Service, Inc. (Eaton's Petroleum) was contracted by North State Chevrolet to perform UST excavation and removal activities. Legacy Environmental Services (Legacy) was subcontracted by Eaton's Petroleum to conduct an assessment of the soils surrounding the UST during closure.

1.2 Scope of Services

This UST closure report contains documentation concerning the following activities which have been conducted at this facility:

- Tank closure activities conducted by Eaton's Petroleum of Rural Hall, NC
- Soil sampling and field screening activities conducted by Legacy
- Laboratory analyses of one soil sample conducted by Water Technology & Controls, Inc. of Reidsville, NC

2.0 UST Removal and Assessment/Evaluation

2.1 Tank and Ancillary Equipment Disposition

On March 30, 1994, a Project Manager from Legacy arrived at the site to observe the UST removal operations and perform field screening of the soils surrounding the UST. To initiate UST removal, Eaton's Petroleum excavated the fill and vent pipes, cut and drained them to avoid release of product into the surrounding soils, then removed them from the tank. The tank was then excavated, inspected by a City of Greensboro Fire Department Official, then removed without incident.

Eaton's Petroleum and Legacy staff inspected the tank for structural integrity upon removal and observed that the shell of the vessel appeared to be in very good condition with no evidence of cracks, holes or significant pitting or corrosion. Following inspection, the tank was labeled according to API guidelines and transported to Safeway Tank Disposal in Colfax, NC for decontamination and disposal. Appendix A contains the disposal manifest for this UST.

Following removal of the UST, the excavation was visually inspected. No water, free product or soil discoloration was observed in the UST excavation and no perceptible petroleum odors were noted. Appendix B contains the GW/UST-2 form completed for this site.

2.2 Excavation Condition

To evaluate the site for contamination, one soil sample obtained below the UST was screened in the field utilizing a TECO Organic Vapor Meter (OVM). The unit was calibrated prior to use in accordance with the manufacturer's recommended procedures with a 285 ppm calibration gas standard furnished by the manufacturer. The sample was obtained from native soils directly below the former tank base, sealed into a "ziplock" type bag, agitated and allowed to equilibrate for a minimum of 15 minutes in order to obtain a representative value of soil off-gases.

The OVM failed to indicate a detectable level of organic vapors in this sample.

2.3 Site Assessment

To confirm site conditions, one soil sample was collected from native soils at a depth of two feet below the former tank base and submitted to Water Technology & Controls for analysis. This sample was collected from the bucket of a backhoe and packed into a new, unused, 4 ounce, wide mouth amber glass jar provided by the certified laboratory. New, disposable Latex gloves were utilized during the sampling procedure to eliminate the possibility of cross-contamination from other sources. The soil sample was labeled with sample location, analyses to be performed, time, date and the sampler's name. It was then placed in a cooler and chilled with ice to approximately 4°C in preparation for transportation to the analytical laboratory, utilizing EPA approved chain-of-custody procedures.

At the analytical laboratory, the soil sample was analyzed for petroleum hydrocarbons according to EPA Methods 9071 and for volatile organics utilizing Method 8021. Laboratory analytical results failed to indicate target compounds above current regulatory actions levels according to either Method. Figure 2 illustrates the sample location and Appendix C contains the laboratory analytical results and chain of custody forms for the sample.

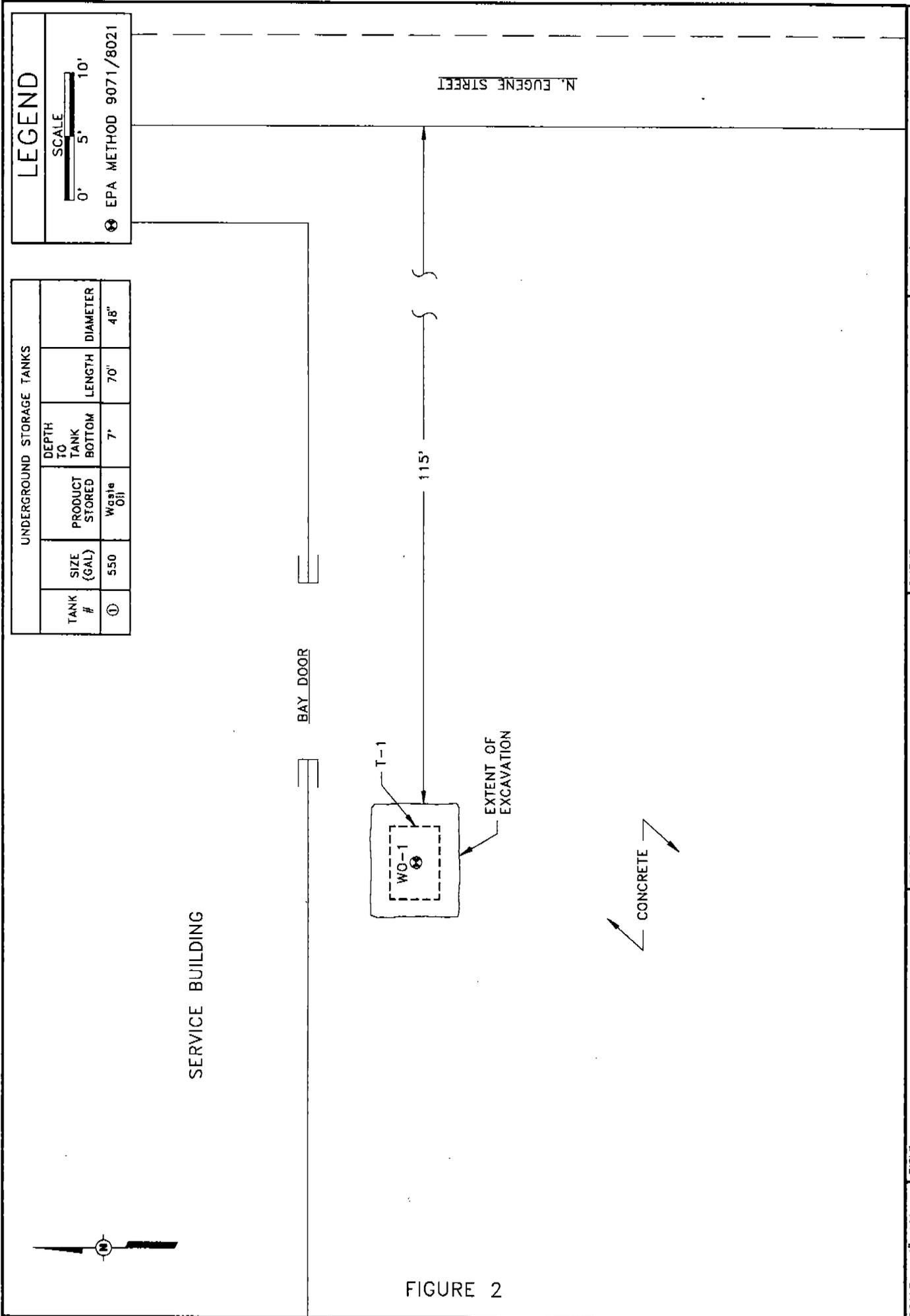
3.0 Conclusions

3.1 General Summary

The closure assessment for one UST formerly located at the North State Chevrolet facility in Greensboro, NC has been completed. From a review of all information gathered during this removal project, Legacy Environmental Services, Inc. makes the following conclusion:

- One (1) 550 gallon waste oil UST has been properly closed at the North State Chevrolet facility. Laboratory analytical results for one sample obtained below this UST failed to indicate TPH or volatile organic levels above current regulatory action levels.

FIGURES



LEGEND



EPA METHOD 9071/8021

UNDERGROUND STORAGE TANKS

TANK #	SIZE (GAL)	PRODUCT STORED	DEPTH TO TANK BOTTOM	LENGTH	DIAMETER
①	550	WASTE OIL	7'	70'	48"

LEGACY ENVIRONMENTAL SERVICES, INC.
GREENSBORO, NORTH CAROLINA

EATON'S PETROLEUM

CLIENT:

PROJECT: **UST CLOSURE**
NORTHSTATE CHEVROLET
GREENSBORO, NC

TITLE:

SITE LAYOUT & SAMPLING DETAIL

SCALE:

1" = 10'
DATE: 4/5/94
DWN. BY: CJS
DWG. # 194-136

FIGURE 2

APPENDIX A
TANK DISPOSAL MANIFEST

**The tank disposal manifest for the UST removed
during this project will be supplied by Eaton's Petroleum.**

APPENDIX B
GW/UST-2 FORM

FOR
TANKS
IN
NC

Return Completed Form To: (mail or date) (name)
The appropriate DEM Regional Office according to the county of the facility's location.
[SEE MAP ON REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].

State Use Only
I.D. Number _____
Date Received _____

INSTRUCTIONS

Complete and return within (30) days following completion of site investigation.

I. Ownership of Tank(s)

Owner Name: Northstate Chevrolet
Corporation, Individual, Public Agency, or Other Entity
Street Address: 451 N. Eugene St.
County: Guilford
City: Greensboro State: NC Zip Code: 27401
Telephone Number: (910) 379-8787
(Area Code)

II. Location of Tank(s)

Facility Name: Northstate Chevrolet
(or Company)
Facility ID # (if available):
Street Address 451 N. Eugene St.
(or State Road)
County: Guilford City: Greensboro Zip Code: 27401
Telephone Number: (910) 379-8787
(Area Code)

III. Contact Person

Name: Jerry McPherson Job Title: Service & Parts Director Tel. No.: 910-379-8787
Closure Contractor: Eatons Petroleum Address: Rural Hall, NC Tel. No.: 910-969-9815
Primary Consultant: Legacy Environmental Address: P.O. Box 4560 Greensboro, NC Tel. No.: 910-316-0452
Lab: Water Tech & Controls Address: P.O. Box 8808 Greensboro, NC Tel. No.: 910-852-0802

IV. U.S.T. Information

V. Excavation Condition

VI. Additional Information Required

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water In Excavation		Free Product		Notable Odor or Visible Soil Contamination	
				Yes	No	Yes	No	Yes	No
1	550	48" x 70"	Waste Oil		X		X		X

See reverse side of pink copy (owner's copy) for additional information required by N.C. - DEM in the written report and sketch.

NOTE: The site assessment portion of the tank closure must be conducted under the supervision of a Professional Engineer or Licensed Geologist. After Jan. 1, 1994, all closure site assessment reports must be signed and sealed by a P.E. or L.G.

VII. Check List (Check the activities completed)

PERMANENT CLOSURE (For Removing or Abandoning-in-place)

- Contact local fire marshal.
 - Notify DEM Regional Office before abandonment.
 - Drain & flush piping into tank.
 - Remove all product and residuals from tank.
 - Excavate down to tank.
 - Clean and inspect tank.
 - Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
 - Cap or plug all lines except the vent and fill lines.
 - Purge tank of all product & flammable vapors.
 - Cut one or more large holes in the tanks.
 - Backfill the area.
- Date Tank(s) Permanently closed: 3/30/94
Date of Change-in-Service: _____

ABANDONMENT IN PLACE

- Fill tank until material overflows tank opening.
- Plug or cap all openings.
- Disconnect and cap or remove vent line.
- Solid inert material used - specify: _____

REMOVAL

- Create vent hole.
 - Label tank.
 - Dispose of tank in approved manner.
- Final tank destination: Safeway Tank
Disposal, Colfax, NC

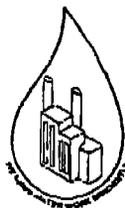
VIII. Certification (Read and Sign)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Print name and official title of owner or owner's authorized representative: Jerry McPherson / Service & Parts Director
Signature: *Jerry McPherson*
Date Signed: 4/20/94

APPENDIX C

LABORATORY ANALYTICAL RESULTS



Water Technology and Controls, Inc.
 Water Treatment Chemistries and Environmental Laboratory
 Reidsville, North Carolina 27320
 (910) 342-4748

Project: North State Chevrolet
 Project Number: P-349
 EPA 8021 Compounds by EPA 624 (GC/MS)

<u>Parameter</u>	<u>WO-1</u>
Dichlorodifluoromethane	< 0.0010 mg/kg
Chloromethane	< 0.0040 mg/kg
Vinyl chloride	< 0.0004 mg/kg
Bromomethane	< 0.0004 mg/kg
chloroethane	< 0.0010 mg/kg
trichlorofluoromethane	< 0.0004 mg/kg
1,1-dichloroethene	< 0.0004 mg/kg
methylene chloride	< 0.0004 mg/kg
trans-1,2-dichloroethene	< 0.0004 mg/kg
bromochloromethane	< 0.0004 mg/kg
1,1-dichloroethane	< 0.0004 mg/kg
cis-1,2-dichloroethene	< 0.0004 mg/kg
chloroform	< 0.0004 mg/kg
1,1,1-trichloroethane	< 0.0004 mg/kg
carbon tetrachloride	< 0.0004 mg/kg
1,1-dichloropropene	< 0.0004 mg/kg
benzene	< 0.0004 mg/kg
1,2-dichloroethane	< 0.0004 mg/kg
trichloroethene	< 0.0004 mg/kg
1,2-dichloropropane	< 0.0004 mg/kg
dibromomethane	< 0.0004 mg/kg
bromodichloromethane	< 0.0004 mg/kg
cis-1,3-dichloropropene	< 0.0004 mg/kg
trans-1,3-dichloropropene	< 0.0004 mg/kg
1,1,2-trichloroethane	< 0.0004 mg/kg
1,3-dichloropropane	< 0.0004 mg/kg
dibromochloromethane	< 0.0004 mg/kg
1,2-dibromoethane	< 0.0004 mg/kg
toluene	< 0.0004 mg/kg
tetrachloroethene	< 0.0004 mg/kg
chlorobenzene	< 0.0004 mg/kg
1,1,1,2-tetrachloroethane	< 0.0004 mg/kg
ethylbenzene	< 0.0004 mg/kg
m,p-xylene	< 0.0004 mg/kg
o-xylene	< 0.0004 mg/kg
styrene	< 0.0004 mg/kg
bromoform	< 0.0004 mg/kg
isopropylbenzene	< 0.0004 mg/kg
bromobenzene	< 0.0004 mg/kg
1,2,3-trichloropropane	< 0.0004 mg/kg
1,1,2,2-tetrachloroethane	< 0.0004 mg/kg
2-chlorotoluene	< 0.0004 mg/kg
n-propylbenzene	< 0.0004 mg/kg
4-chlorotoluene	< 0.0004 mg/kg
1,3,5-trimethylbenzene	< 0.0004 mg/kg
tert-butylbenzene	< 0.0004 mg/kg
1,2,4-trimethylbenzene	< 0.0004 mg/kg
sec-butylbenzene	< 0.0004 mg/kg
1,3-dichlorobenzene	< 0.0004 mg/kg
1,4-dichlorobenzene	< 0.0004 mg/kg
p-isopropyltoluene	< 0.0004 mg/kg
1,2-dichlorobenzene	< 0.0004 mg/kg
n-butylbenzene	< 0.0004 mg/kg
1,2-dibromo-3-chloropropane	< 0.0004 mg/kg
1,2,4-trichlorobenzene	< 0.0004 mg/kg
hexachlorobutadiene	< 0.0004 mg/kg
naphthalene	< 0.0004 mg/kg
1,2,3-trichlorobenzene	< 0.0004 mg/kg
EPA 9071 (oil and grease)	< 250 mg/kg

WT&C Sample ID:

03319422

