

**Referral of a Petroleum Site**

To: Chuck Schwer, Supervisor, Sites Management Section  
Thru: June Middleton, Permit Administrator, UST Program  
From: Susan Thayer, Environmental Analyst, UST Program  
RE: UST Facility ID# 2116 Date: 10/23/2003

~~10/31/03~~  
10/31/03

\*\*\*\*\*

On 10/17/2003 the Management and Prevention Section was notified of contamination found during the monitoring/**closing** of UST at Walker Motors. Jaymi Cleland of ECS/Marin reported the petroleum contamination. Telephone 434-4500

Name of Facility owner: Wade Walker  
Facility contact:

Telephone# 223-5201  
Telephone#

SMS# 20033108

Site Manager initials: GN

RP : Walker Motor Inc

Was the Land Owner DIRECTED by DEC to remove tank(s)?  No  Yes

Is Land Owner eligible for reimbursement for cost of removing tank(s)?  No  Yes

Were tank(s) permitted for operation at any time?  No  Yes

If tank(s) abandoned year of abandonment: \_\_\_\_\_

Use of tank(s) at time of abandonment:

Farm  Residential  Commercial  Service Station  Retail  State  Federal

UST Financial Responsibility:

PCF Assessment # NIA

PCF Eligible  No  Yes

Deductible  No  Yes

Cost Recovery applicable  No  Yes

\$10K

insurance info should be on site file

If "yes", reason: \_\_\_\_\_

Insurance Company: \_\_\_\_\_

Self Insured:  No  Yes

Federal Insured:  No  Yes

This referral to SMS is believed to involve:

Soil Contamination	No	<b>Yes</b>	Maybe
Groundwater Contamination	No	<b>Yes</b>	Maybe
Free Product Contamination	No	Yes	Maybe
Vapor Impact on Buildings	No	Yes	Maybe
<b>Threatened/Impacted Water Supply</b>	No	Yes	<b>Maybe</b>
Surface Water Impact	No	Yes	Maybe

Attached is a copy of the Pull Form.  Trip Report Enclosed  Going Expressway

Comments: Tank Removal referred in 4/03.

SMS # 2003-3108



65 MILLET STREET, SUITE 301  
RICHMOND, VT 05477  
802-434-4500  
FAX: 802-434-6076  
WWW.ECSMARIN.COM

OCT 17 2 29 PM '03

WASTE MANAGEMENT  
DIVISION

SMS  
2/116

16 October 2003  
File No. VTA3-0077

Ms. Susan Thayer  
Waste Management Division  
103 South Main Street/West Building  
Waterbury, Vermont 05671

RE: UST Closure at Parts Shop  
Walker Motors, Inc (SMS Site #: 2003-3108)  
Montpelier, Vermont

Dear Ms. Thayer:

On 3 October 2003, I observed the removal of one, 4,000 gallon #2 fuel oil underground storage tank (UST) at Walker Motors, Inc., located at 265 River Street in Montpelier, Vermont (Figure 1). The UST was located south of the parts shop at the Walker Motors main building (Figure 2) and was used to fuel a boiler to supply heat to the parts shop. The UST was removed and replaced with an above ground storage tank (AST).

Prior to its removal, about 3,760 gallons of fuel oil was transferred from the UST to the newly placed AST. The UST, which was installed in 1976, was positioned under asphalt and concrete approximately 17 feet south of the parts shop located on the Walker Motors Property. Picard Excavating from Middlesex, Vermont, provided the excavation services and Ostrout Petroleum provided UST-cleaning services. The UST was transported offsite to Bolduc's Auto Salvage in Middlesex, Vermont, to be used as scrap metal. The UST permanent closure forms and photographic documentation of the UST closure are attached to this report.

## FINDINGS

The findings of this assessment are summarized as follows:

- The heating oil UST was found to be in poor condition upon removal, with some rusting and pitting, and several holes observed in the UST. The fill, suction, return and vent lines for the UST were in good condition with some minor rusting, but no pitting or holes.
- Olfactory and visual signs of petroleum impact were observed in soils in the UST excavation beginning when the tank was exposed at approximately two feet below ground surface (bgs).
- Photoionization detector (PID) headspace readings taken of soils in the excavation ranged from 56 parts per million (ppm) collected from a soil sample approximately 0.5 feet bgs near the fill pipe located over the UST to a high of 365 ppm collected at a depth of six feet bgs at the bottom and south end of the excavation. The average PID headspace reading throughout the excavation was 218 ppm. Soil headspace PID screening results are presented on Figure 2.

- In general, soils in the immediate vicinity of the former UST consisted of sand and gravel fill.
- Approximately 10 gallons of groundwater entered the excavation at a depth of approximately six feet. Oil sheening and olfactory evidence of petroleum impact was observed in the groundwater. No bedrock was encountered in the excavation; however, bedrock outcrops were noted on the northwestern portion of the site.
- All stockpiled soils originating from the excavation were backfilled into the excavation following the soil screening activities. Clean sand was imported to bring the excavated site up to grade.
- Prior to excavation activities, approximately 3,760-gallons of #2 fuel oil was pumped from the UST into the new on site AST. Approximately 175 gallons of additional water, UST bottoms, and waste product were removed from the UST. This waste was drummed onsite and will subsequently be transported offsite by Environmental Products and Services (EP&S).
- The site and surrounding properties are serviced by municipal water and sewer system. The Winooski River is located approximately 250 feet north-northeast of the site. One monitoring well that was installed in approximately 1985 following a gasoline UST removal is located approximately 75 feet northeast of the excavation. No public supply wells are known to be within the site vicinity. According to the Vermont Agency of Natural Resources Internet Mapping Site of Private Wells, at least two private wells are located within ½-mile of the site.

## RECOMMENDATIONS

Based on the results of the UST closure assessment, ECSMarin recommends that a site investigation be performed to define the extent and degree of soil and groundwater contamination and potential impacts to sensitive receptors. Walker Motors, Inc., has elected to pursue the site investigation process via the Expressway program. The completed Expressway Notification Form is attached.

## SITE INFORMATION

The site currently houses an automobile dealership. The main showroom and repair shop is located near Route 2. A second 4,000-gallon #2 fuel oil UST was removed on 23 April 2003, at the auto body repair shop located on a hill approximately 100 feet west of the main showroom. A site investigation is being performed as a result of contamination discovered during the UST removal. In the 1980's, two gasoline USTs were removed from the southeast corner of the main showroom building and one monitoring well was installed.

The surrounding areas are primary commercial located off Routes 2 and 302. The ground surface at the property slopes to the northeast, toward the Winooski River.

### **UST AND PIPING SYSTEM OBSERVATIONS**

The heating oil UST was found to be in poor condition upon removal, with some rusting and pitting and several holes observed in the UST. The fill, suction, return and vent lines for the UST were in good condition with some minor rusting, but no pitting or holes. The UST measured 64 inches wide by 24 feet long. Picard Excavating from Middlesex, Vermont, provided the excavation services and Ostrout Petroleum provided UST-cleaning services. The UST was transported offsite to Bolduc's Auto Salvage in Middlesex, Vermont, to be used as scrap metal.

Approximately 3,760-gallons of #2 fuel oil was removed from the UST prior to excavation and placed into the new on-site AST. An additional 175 gallons of water, UST bottoms, and waste product was removed from the UST and drummed onsite for subsequent offsite transport by EP&S.

### **ENVIRONMENTAL OBSERVATIONS**

PID headspace readings taken of soils in the excavation ranged from 56 ppm collected from a soil sample approximately 0.5 feet bgs near the fill pipe, to a high of 365 ppm collected at a depth of six feet bgs at the south end of the excavation. The average PID reading throughout the excavation was 218 ppm. Soil headspace PID screening results are presented on Figure 2. After notifying Mr. Andrew Shively of the VT DEC regarding the soil and groundwater contamination, Picard Excavation was instructed to backfill the UST excavation cavity.

Approximately 10 gallons of groundwater entered the excavation. Oil sheening and olfactory evidence of petroleum impact was observed in the groundwater. No bedrock was encountered in the excavation; however, bedrock outcrops were noted on the northwestern portion of the site.

The completed excavation measured approximately 14 feet wide x 30.5 feet long x 6 feet deep. All stockpiled soils originating from the excavation were backfilled into the excavation following the soil screening activities. Clean sand was imported to bring the excavated site up to grade.

Soils were screened for the possible presence of volatile organic compounds (VOCs) with a Thermo Environmental Instrument, model PID 580b. The PID was field-calibrated on the day of the assessment with an isobutylene gas to a benzene reference. Soil samples were placed in resealable bags, sealed, and agitated. Bag headspace was then screened for the possible presence of VOCs with the PID.

### **RECEPTOR EVALUATION**

Potential receptors identified in the vicinity of the parcel included the following:

- Soils and groundwater beneath the UST excavation;
- Underground utilities,
- Winooski River located approximately 250 feet east of the site; and
- Two off-site private water supply wells.

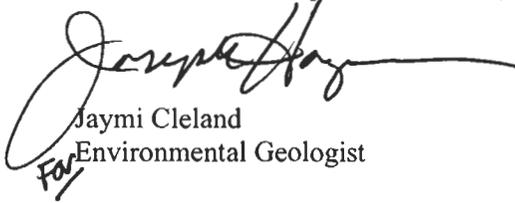
Ms. Susan Thayer  
Walker Motor, Inc. UST Closure Parts Shop  
16 October 2003

Page 4

Based on the information obtained during the UST closure soil and groundwater has been contaminated from releases associated with the #2 fuel oil UST. However, the full extent of contamination has not been defined and, therefore, the impact to potential receptors cannot be determined at this time.

Should you have any questions or concerns regarding this assessment, please do not hesitate to contact me at 1-800-520-6065.

Sincerely,  
Environmental Compliance Services, Inc.



Jaymi Cleland  
Environmental Geologist

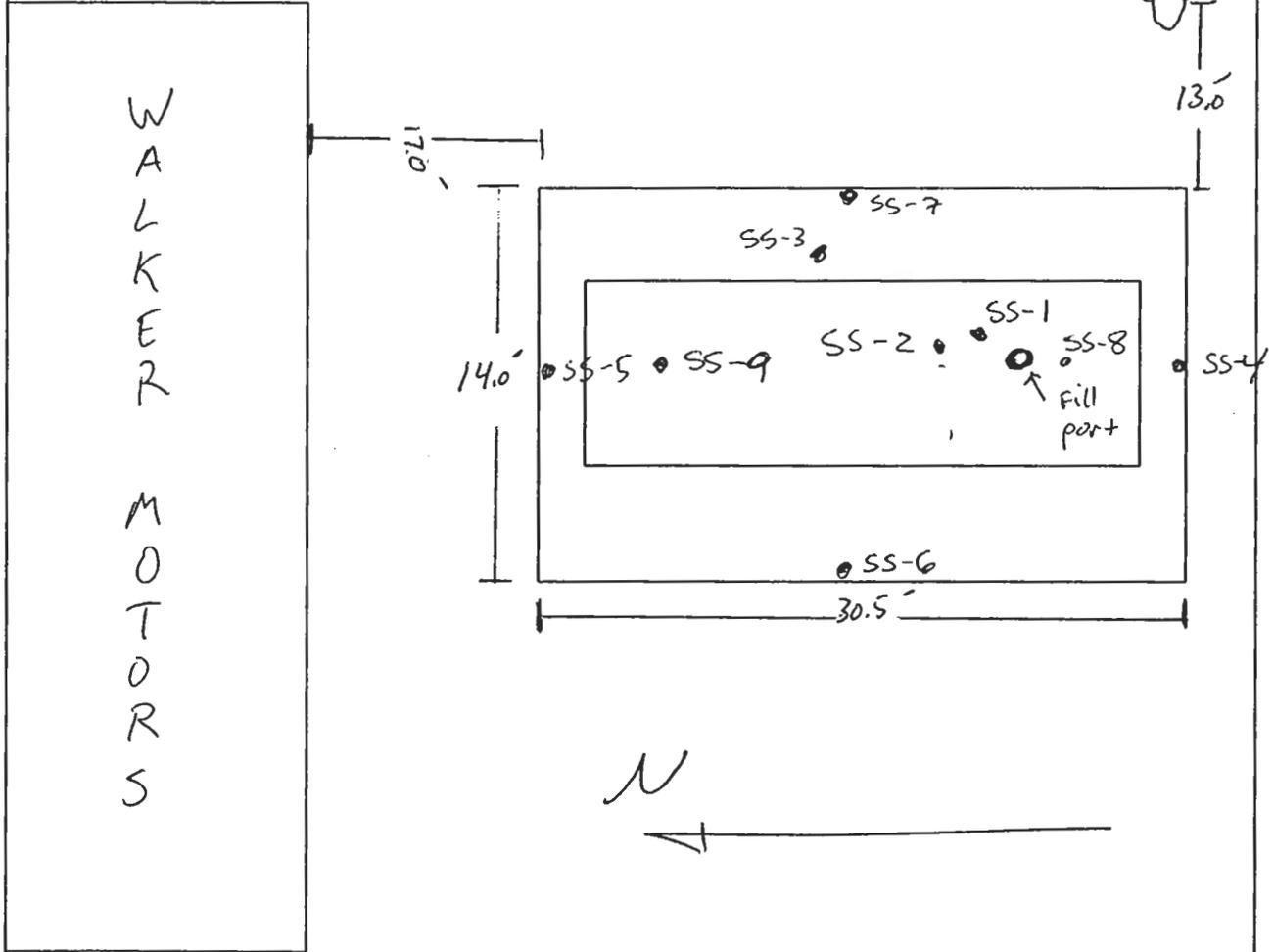
hl/A30077UST.doc

Attachments

cc: Mr. Wade Walker, Walker Motors, Inc.  
Mr. Rich Ostrout, Ostrout Petroleum

Route 2 & 302

FORD  
HALLMARK  
SIGN

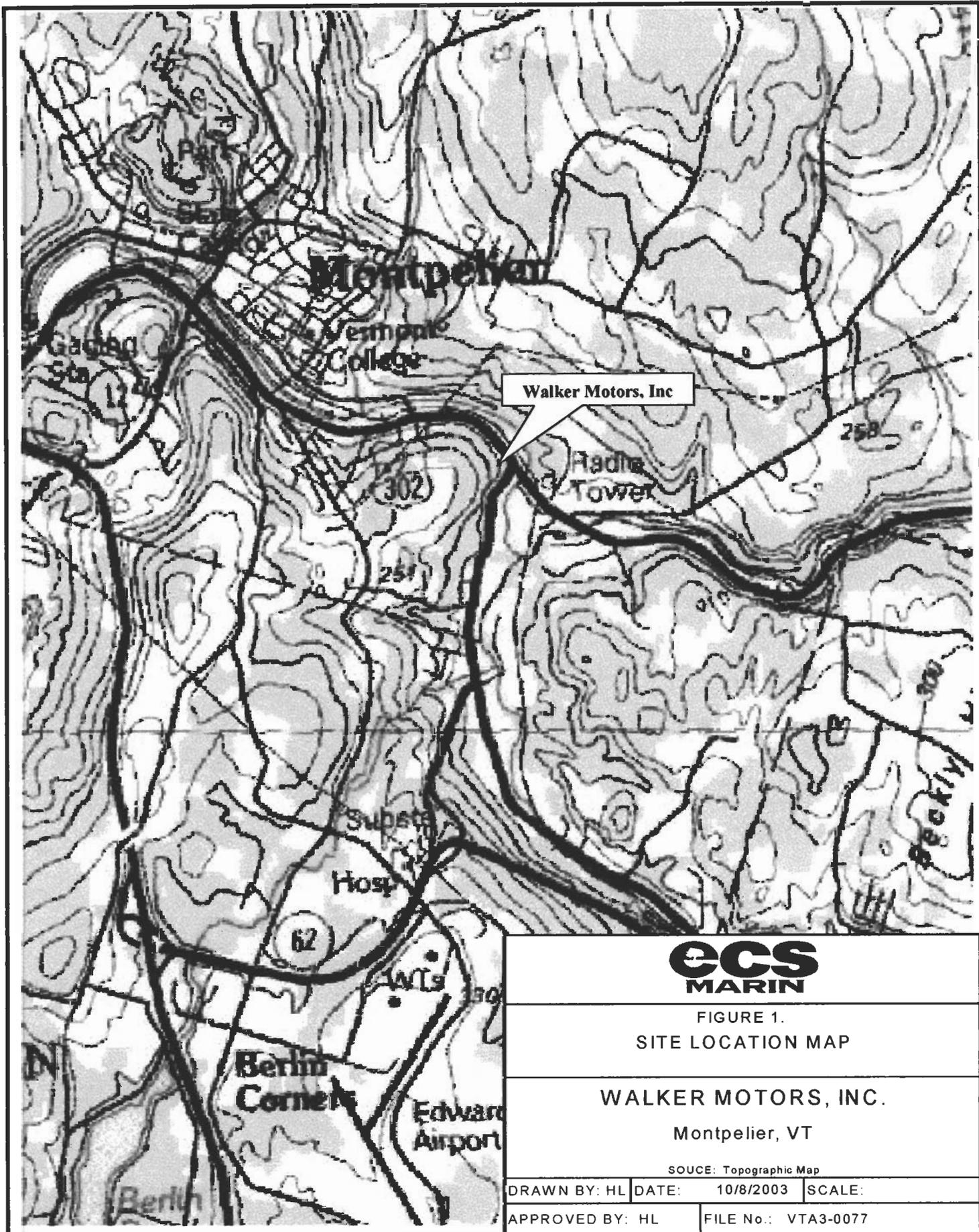
I.D.	Depth	PID	Location
SS-1	0.5	343	Around fill port
SS-2	2.5	56	Around fill port
SS-3	0.6	67	surface sample east of tank
SS-4	6.0	181	South wall
SS-5	6.0	242	North wall
SS-6	6.0	224	West Wall
SS-7	6.0	208	East wall
SS-8	6.0	365	Bottom South end
SS-9	6.0	280	Bottom North end



FIGURE 2.

Walker Motors Ford  
Montpelier, VT

DRAWN BY: JC	DATE: 10/6/2003	Not to scale:
APPROVED BY: JC	FILE No.: VTA3-0077-03	



**ecs**  
MARIN

FIGURE 1.  
SITE LOCATION MAP

**WALKER MOTORS, INC.**  
Montpelier, VT

SOUCE: Topographic Map

DRAWN BY: HL	DATE: 10/8/2003	SCALE:
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APPROVED BY: HL	FILE No.: VTA3-0077
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## ATTACHMENTS

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State of Vermont

AGENCY OF NATURAL RESOURCES
Department of Environmental Conservation
Waste Management Division
103 South Main Street/West Office
Waterbury, Vermont 05671-0404
(802) 241-3888, FAX (802) 241-3296

Department of Fish and Wildlife
Department of Forests, Parks and Recreation
Department of Environmental Conservation
State Geologist
RELAY SERVICE FOR THE HEARING IMPAIRED
1-800-253-0191 TDD>Voice
1-800-253-0195 Voice>TDD

SITE INVESTIGATION EXPRESSWAY NOTIFICATION FORM

Site Owner: Wade Walker

Site Name, Town: Walker Motors

- X Yes, this site will participate in the Site Investigation Expressway Process.
No, this site will not participate in the Site Investigation Expressway Process.

If yes, please complete the checklist below:

- Contamination present in soils above action levels X Yes No

If yes, summarize levels:

PID headspace readings ranged from 56 ppm to 365 ppm
in soils collected from 4,000 gallon No. 2 fuel oil UST

- Free product observed X Yes No
Groundwater contamination observed X Yes No
Surface water contamination observed Yes No
Suspected release of hazardous substances Yes No

If yes, please explain:

[Blank lines for explanation]

- Affected receptors Yes No Has not been determined, UST Closure report
being prepared and will need Site Investigation.

If yes, please identify receptors including names and addresses of third party
receptors:

[Blank lines for identifying receptors]

Please provide an estimated date of when you expect to submit Site Investigation Report: 11/24/03

Owner's Signature/Date: [Signature] 10/14/03 Consultant's Signature/Date: [Signature] 10/14/03

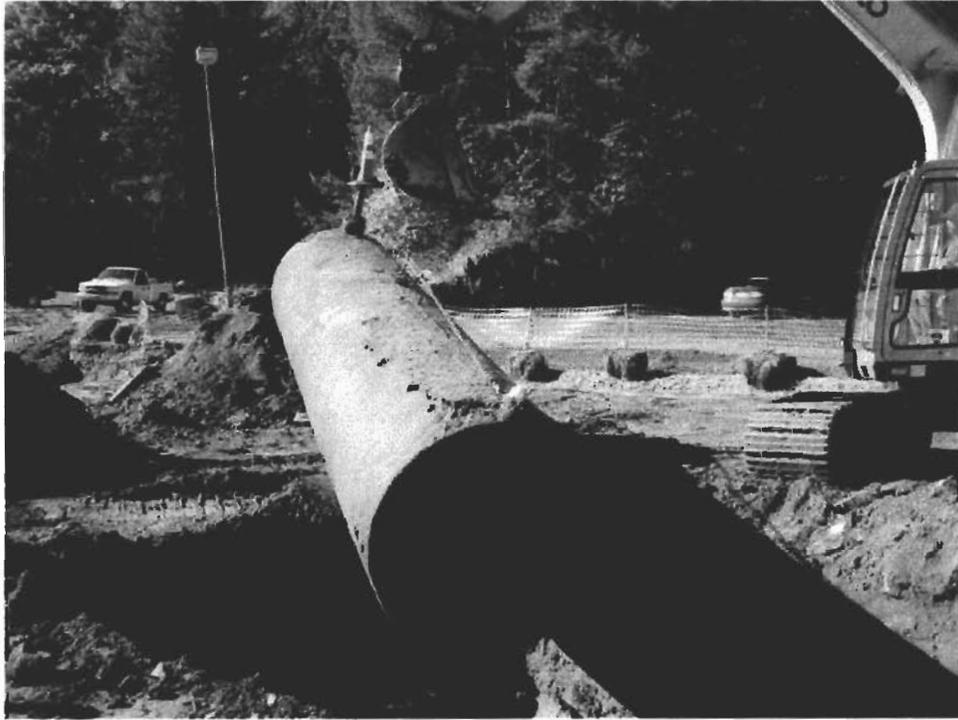
The SMS has reviewed this expressway notification form and approves / disapproves of this action.



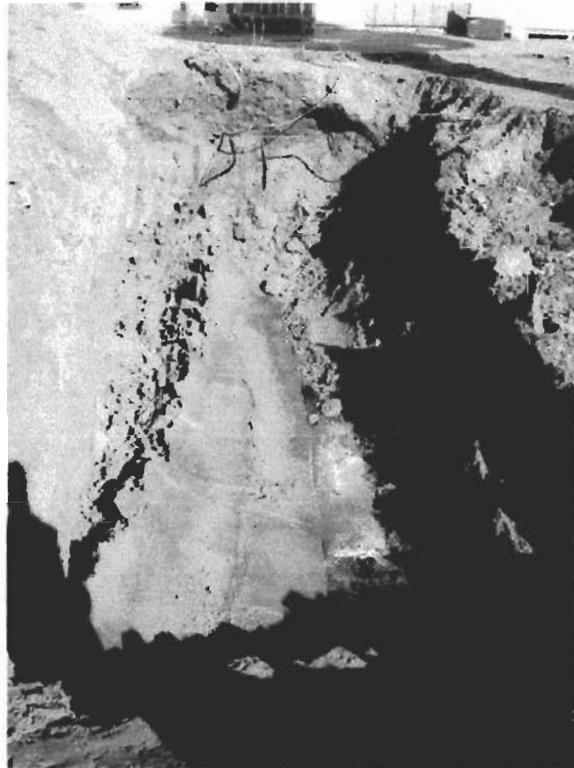
Concrete cover over tank being removed.



Piping coming out of building



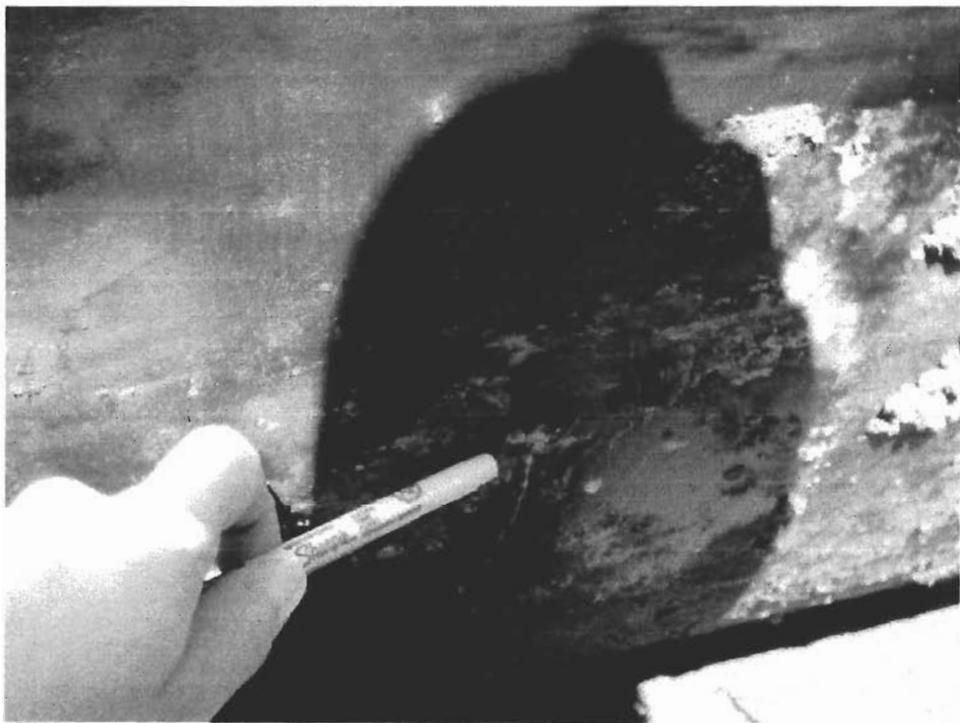
UST coming out of the ground



Groundwater in bottom of excavation



Nickel size hole in tank.



Another hole in UST



Residual product coming out of the UST



Cleaning of tank prior to off-site removal



Excavation being backfilled

# UNDERGROUND STORAGE TANK PERMANENT CLOSURE FORM

Vermont Agency of Natural Resources, Department of Environmental Conservation, Waste Management Division  
103 South Main Street, West Building, Waterbury, Vermont 05671-0404, Telephone: (802) 241-3888

Agency Use Only  
 Date of scheduled Activity: 10/3/03 Facility ID #: 2116 Closing:  tanks,  piping,  system  
 DEC initials: ST SMS #: \_\_\_\_\_ DEC evaluator: ST

**Section A. Facility Information:**

Name of facility: WALKER MOTORS Number of employees: \_\_\_\_\_  
 Street address: 265 RIVER STREET Town/city: MONTPELIER VT  
 Owner of UST(s) to be closed: Wade Walker Contact (if different than owner): \_\_\_\_\_  
 Mailing address of owner: 265 RIVER RD. MONTPELIER, VT  
 Telephone number of owner: 802 223-5201 Contact telephone #: \_\_\_\_\_

**Section B. UST Closure Information: (please check one)**

Reason for initiating UST closure:  Suspected Leak  Liability  Replacement  Abandoned

**USTs (piping is considered a part of UST system) undergoing permanent closure. Include condition of USTs**

UST #	Product	Size (gallons)	Tank age	Tank Condition	Piping age	Piping condition
1	#2 fuel oil	4,000	1976	poor	1976	good

Which tanks, if any, will be closed in-place: USTs# \_\_\_\_\_ Authorized by: \_\_\_\_\_ Date: 1/1  
 Disposal/destruction of removed UST(s): Location: Baldocks Salvage Method Date: 10/3/03  
 Amount (gal.) and type of waste generated from USTs: 175 Middlesex Scrape  
 (tank contents are hazardous wastes unless recovered as usable product)  
 Tank cleaning company (must be trained in confined space entry): Larry Martin/Ostrout Petroleum  
 Certified hazardous waste hauler: EP&S Generator ID number: VT040251035

**Section C. Initial site characterization:**

*Work in this section must be completed by a professional environmental consultant or hydrogeologist with experience in environmental sampling for the presence of hazardous materials. A full report from the consultant must accompany this form.*

**Excavation information: (some tank pulls require more than one excavation)**

Tank(s) # and Excavation (A,B,C,etc)	Depth (ft)	Excavation size(ft <sup>2</sup> )	Peak PID reading	Depth of Peak (ft)	Avg PID reading	Bedrock Depth (ft)	Groundwater encountered? (y/n) and at depth (ft)	Soil type
A	6.0-7.0	30.5x14.0	365	6.0	218	NONE	Y, 6.6ft	Fill SAND & PEA GRAVEL

*only small amount of gw encountered*

Dig Safe Number: \_\_\_\_\_

**PID information:**

Make: TE Model: 540B OVM Calibration information (date, time, gas): 0830 on 10/3/03  
150 by Tyler

**Locate all readings and samples on site diagram**

Number of soil samples collected for laboratory analysis? 0 results due date   /  /    
 Have any soils been polyencapsulated on site? Yes    (#yds<sup>3</sup>    PID range above zero <sup>low</sup>    - <sup>peak</sup>   ) No   
 Have any soils been transported off site? Yes    list amount (yds<sup>3</sup>):    No   
 Location transported to: \_\_\_\_\_ DEC official who approved \_\_\_\_\_

Amount of soils backfilled(yds<sup>3</sup>): 75 yds<sup>3</sup> PID range above zero <sup>low</sup> 56 - <sup>peak</sup> 365  
 Have limits of contamination been defined? Yes    No   
 Is there any other known contamination on-site? Yes  No    Comments: 2nd UST removed. area contaminated.

Free Phase product encountered? Yes  thickness    sheen  No     
 Groundwater encountered? Yes  depth(ft) 6.0 No     
 Are there existing monitoring wells on-site? Yes  how many: 21 (locate on site diagram) No     
 Have new monitoring wells been installed? Yes    how many:    (locate on site diagram) No     
 Samples obtained from monitoring wells for lab analysis? Yes    results due date   /  /   No   

Is there a water supply well on site? Yes    (check type: shallow    rock    spring   ) No   
 Number of public water supply wells are located within a 0.5 mile radius?    min. distance (ft.):     
 Number of private water supply wells located within a 0.5 mile radius? 2 min distance (ft.):    *Based on VTANR Internet mapping site*

Receptors impacted?  soil  indoor air  ambient air  groundwater  surface water  water supply

Facility ID# 2116

Section D: Tanks/Piping Remaining/installed One AST installed in replacement

Regardless of size, include USTs at site as to \*status, e.g. "abandoned", "in use", or "to be installed". (Most installations require permits and advance notice to this office.)

UST#	Product	Size(gallons)	Tank age	*Tank status	Piping age	*Piping Status
	<u>underground</u>					

There are no other tanks at this site.

Section E. Statements of UST closure compliance:

(must have both signatures or site assessment not complete)

As the party responsible for compliance with the Vermont UST Regulations and related statutes at this facility, I hereby certify that the all of the information provided on this form is true and correct to the best of my knowledge.

Wade W. [Signature]  
Signature of UST owner or owner's authorized representative

10/3/03  
Date of signature

As the environmental consultant on site, I hereby certify that the site assessment requirements were performed in accordance with DEC policy and regulations, and that information which I have provided on this form is true and correct to the best of my knowledge.

Jaym. Cleland  
Signature of Environmental Consultant

10/6/03  
Date of signature

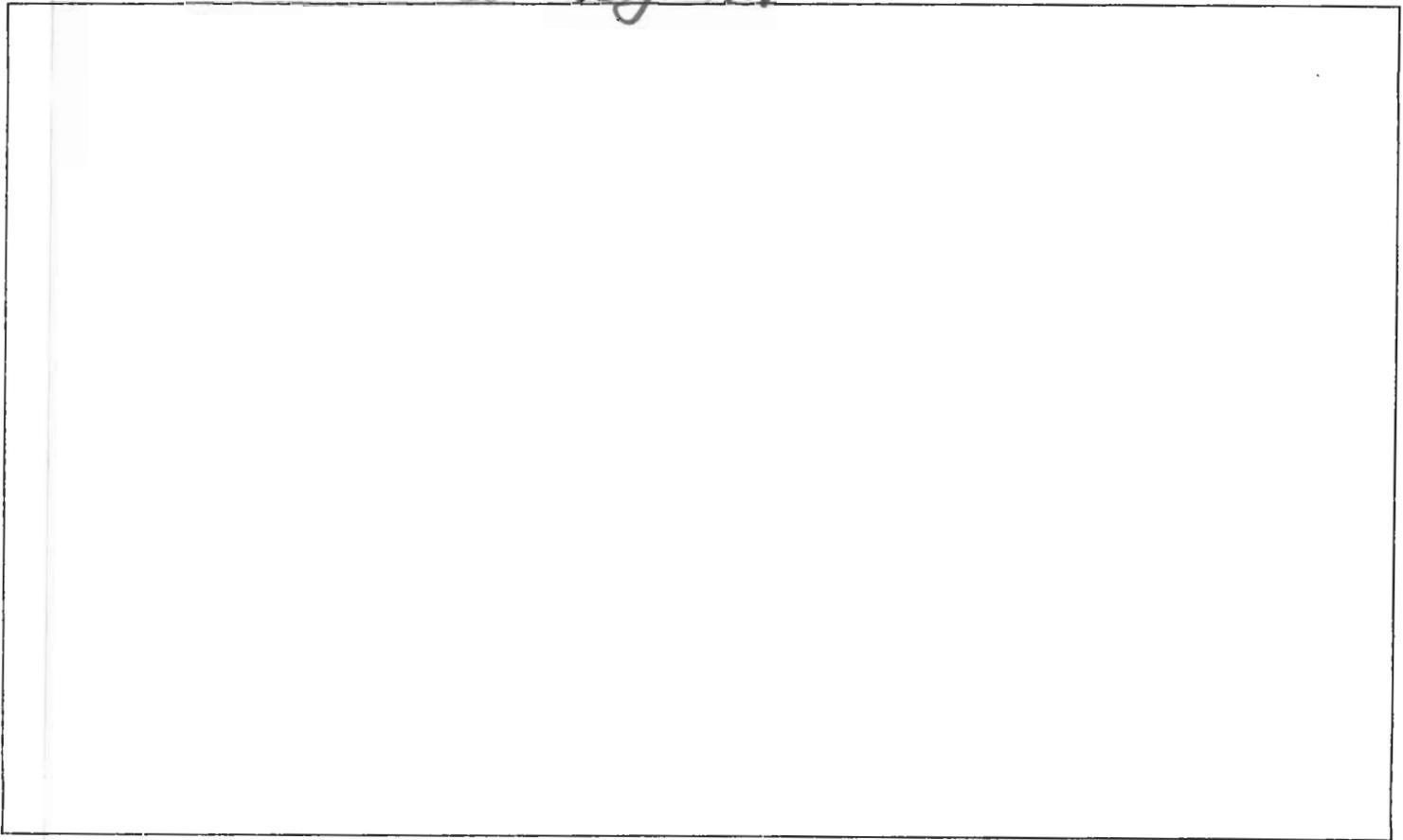
Company: ECS Manih

Telephone #: (602) 434-4500

Date of Closure: 10/3/03 Date of Assessment: 10/3/03

Return form along with complete narrative report and photographs to the Department of Environmental Conservation(DEC), Underground Storage Tank Program within 72 hours of closure.

Site diagram see attached diagram



This Closure Form may only be issued for the facility and the date indicated at top of page 1. **Changes in the scheduled closure date should be phoned in at least 48 hours in advance. Both the yellow and white copies of this form must be returned to the address on the top of page 1 of this form; the pink copy should be retained by the UST owner.** A written report from an environmental consultant covering all aspects of closure and site assessment, complete with photographs and any other relevant data, must accompany this form. All procedures must be conducted by qualified personnel, to include training required by 29 CFR 1910.120. Documentation of all methods and materials used must be adequate. All work must be performed in compliance with DEC policy "UST Closure and Site Assessment Requirements" as well as all applicable statutes, regulations, and additional policies. The DEC may reject inadequate closure forms and reports.