

## Heindel and Noyes

P.O. Box 64709 Burlington, Vermont 05406-4709

- Consulting Hydrogeologists
- Engineers
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January 8, 1999

Mr. Michael Young  
Assistant Hazardous Material Specialist  
Agency of Natural Resources, Waste Management Division  
103 South Main Street/West Office Building  
Waterbury, VT 05671-0404

Re: Spillanes Texaco on 125 Battery Street, Burlington, Vermont  
Site #94-1722

Dear Mike:

The enclosed Site Investigation Report was generated by Heindel and Noyes in August of 1996. The report details field work done during the removal of three tanks in the summer of 1996, and includes a cost proposal for additional monitoring and remediation at the site. The investigation and proposal were requested in the letter from Jason Feingold of the Sites Management Section dated January 16, 1995.

On January 8, 1999, Heindel and Noyes staff revisited this site to check the status of the four monitoring wells. Because the site has been idle for two and a half years, we had hoped to be able to take a water level measurement and a quick sample of the wells to check their status. However, we were not able to do this due to the presence of immobile vehicles and the large snow/ice pile on top of the wells. The photos attached with this letter show the present status of the portion of the site where these wells are located. From our observations, it appears that the first step to reopening this site is to move the cars and equipment to allow access to the wells. We will make arrangements to do this next week. We look forward to your review of our report.

Please don't hesitate to call me if you have any questions regarding this site and our previous investigations there.

Sincerely,

Miles Waite  
Senior Hydrogeologist

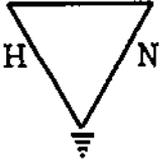
MW/jm

Enclosure

cc: Scott Bigger

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JAN 14 10 11 AM '99



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## SPILLANE'S TEXACO BURLINGTON, VERMONT

### SITE INVESTIGATION Battery Street Facility

JAN 14 10 11 AM '99

*Prepared by:*

Heindel and Noyes, Inc.

*Prepared for:*

Spillane's Texaco

August 15, 1996

Submitted January 11, 1999

# SPILLANE'S TEXACO

## Battery Street Facility Burlington, Vermont

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# SPILLANE'S TEXACO

## Battery Street Facility Burlington, Vermont

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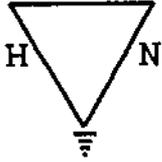
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### **SPILLANE'S TEXACO Battery Street Facility Burlington, Vermont**

### **SITE INVESTIGATION**

#### **EXECUTIVE SUMMARY**

Heindel, and Noyes, Inc. (H&N) performed a site investigation of Spillane's Texaco, located on Battery Street in Burlington, Vermont. The investigation was performed during the removal of three gasoline underground storage tanks (USTs) and included the screening of soil samples for volatile organic compounds (VOCs) with an H-Nu photoionization device (PID), sampling of four groundwater wells for EPA Method 602 analysis, observing the depth of free-product in the four wells, and the completion of a sensitive receptor survey.

An overview of the results of this investigation is presented below.

#### **Site History**

- Release of product from some portion of the UST and piping system at the Battery Street Texaco Station was first discovered in monitoring wells MW-2 and MW-3 on September 20, 1994, during routine weekly monitoring. Tests on two of the tanks in 1994 indicated the unleaded plus line was leaking, while the premium unleaded line showed indications of a failing check valve.

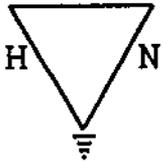
On October 4th and 5th, 1994 all three tanks were pumped of all recoverable product. Gasoline pumps have not been in service since the tanks were emptied.

On October 13, 1994 H&N supervised the excavation of six test pits. H&N's investigation determined gasoline product had escaped from product lines or tanks and had migrated to the west. Contamination noted in TP-6, upgradient of the tanks, and adjacent to product lines, suggested a line leak. The vertical extent of contamination west of the retaining wall was determined to be approximately 4.5-

feet to over 12-feet below ground surface (bgs). The horizontal limits of contamination were determined to be approximately 40-feet wide (N-S) by 60-80-feet long (E-W).

### **Site Investigation**

- On July 9, 1996 H&N performed a site investigation during the removal of three gasoline USTs. During the UST removal, soils were screened with a PID. Elevated VOC levels were recorded in each of the excavations. VOC levels were highest upgradient of the USTs, along product supply lines. Higher PID readings recorded along product supply lines rather than directly below the former USTs indicates line leakage was the source of gasoline contamination observed in the monitoring wells.
- The four on-site monitor wells were sampled for EPA Method 602 analysis during the site investigation. Elevated BTEX levels were recorded in monitor wells MW-2 and MW-3. In addition, 0.15-feet of free-product was observed by H&N staff in MW-2 on July 22, 1996.
- Sensitive receptors in the vicinity of Spillane's Texaco include the basement of Spillane's Texaco, the basement of SAS Auto Parts, and Lake Champlain. Neither basement exhibited any signs of contamination, nor were elevated PID levels recorded along likely vapor pathways. Lake Champlain is more than 500-feet west of the limits of contamination identified by H&N in 1994. However, it is possible that contamination could have entered the corridor of the east-west trending sewer line on the subject parcel. If this has occurred, contamination would be more mobile.
- To complete characterization, H&N suggests an additional six monitor wells be installed on the site. Following installation, H&N recommends that all wells on the property be sampled for EPA Method 602 analysis. Once the extent of contamination is determined from the sampling results, H&N will suggest the most appropriate remedy.



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### SPILLANE'S TEXACO

Burlington, Vermont

### SITE INVESTIGATION BATTERY STREET FACILITY

#### 1.0 INTRODUCTION

##### 1.1 Historical Perspective

Release of product from some portion of the UST and piping system at Spillane's Texaco Battery Street site was first discovered in monitoring wells MW-2 and MW-3 on September 20, 1994, during routine weekly monitoring by Spillane's Texaco staff. Monitoring records are attached (Appendix 2, pages 1-25). A review of these monitoring records indicated a 227-gallon gasoline deficit in the unleaded UST shortly before the discovery of free-product in the monitoring wells.<sup>1</sup>

Sherman V. Allen performed a tightness test of the product lines leading from the USTs to the pumps on October 6, 1994. A test could not be performed on the regular unleaded line since no check valve is attached to this line. The unleaded plus line was determined to have a line leak, while the premium unleaded line showed indications of a failing check valve.

On October 4th and 5th, 1994 all three tanks were pumped of all recoverable product. Gasoline pumps have not been in service since the tanks were emptied.

On October 13, 1994 H&N supervised the excavation of six test pits downgradient of the USTs. The results of this investigation are contained in a letter report to Mr. Ted Unkles of the Hazardous Material Management Division, dated 10/26/94 (Appendix 1, pages 6 to 10). Two recovery wells, RW-1 and RW-2, were installed at this time. H&N's investigation determined gasoline product had escaped from product lines, or tanks, and had migrated

<sup>1</sup>Because the deficit is within 10% of the total volume of the tank volumetric data are used as preliminary estimates.

to the west. The vertical extent of contamination west of the retaining wall was determined to be approximately 4.5-feet to over 12-feet below ground surface (bgs). The horizontal limits of contamination were determined to be approximately 40-feet wide (N-S) by 60-80-feet long (E-W). Contamination noted in TP-6, upgradient of the tanks, and adjacent to product lines, support the line leakage test results referenced above.

Mr. Jason Feingold, Hazardous Materials Management Division, Sites Management Section, responded to H&N's report in a letter to Mr. Scott Bigger of Spillane's Servicer dated January 16, 1996. In this letter, Mr. Feingold requested a site investigation be performed at the Battery Street facility, including the following specifics: all four monitor wells be sampled for EPA Method 602 analysis; groundwater elevations be recorded; a receptor assessment be performed; and clean-up activities be proposed.

## **1.2 Purpose and Scope**

This report summarizes the results of a site investigation performed by H&N staff on July 9, 1996, during the removal of three gasoline USTs from Spillane's Texaco. Accordingly, the report documents field and laboratory analytical results, presents a preliminary receptor evaluation, and outlines a plan for further monitoring, as well as additional monitor wells to complete characterization. Conclusions and recommendations are discussed in the final section.

## **2.0 SITE DESCRIPTION AND BACKGROUND**

### **2.1 Site Location and Physiography**

The site is located on the southwest corner of the intersection of Battery and College Streets in Burlington, Vermont (see Site Location Map, Appendix 1, page 1).

The site is located on a steep, westward sloping parcel. Site improvements have divided the site into two relatively flat areas, separated by an approximately 14-foot high concrete retaining wall running north-south, and a two-story building. The southern portion of the site does not have a retaining wall but is steeply sloped. To the west of the retaining wall the site slopes toward Lake Champlain, approximately 700-feet from the former USTs. The Soil Conservation Survey of Chittenden County identifies soils in the area as fill land. Excavation for a new building foundation immediately across Battery Street indicates sandy native materials to a depth of 10 to 15 feet. Surface drainage is generally westward

toward Lake Champlain (see USGS map, Appendix 1, page 1). The following table summarizes soil log information developed during the UST removal.

<b>Spillane's Texaco Battery Street, Burlington, VT July 9, 1996</b>	
<b>Depth (feet)</b>	<b>Material</b>
0.0 - 0.5	Asphalt
0.5 - 4.0	Brown silty sand
4.0 - 8.0	Gray silty sand, w/ some brick, concrete, clay

### **3.0 METHODS OF INVESTIGATION**

The objective of the site investigation was to determine the source of contamination on the site (a Site Plan is included in the Appendix 1, page 1). The site investigation was performed during the removal of the three gasoline USTs. The investigation included the screening of soil samples for VOCs with an H-Nu PID, sampling of four groundwater wells for EPA Method 602 analysis, observing the depth of free-product in the four wells, and a preliminary sensitive receptor survey.

#### **3.1 UST Removal**

Three gasoline USTs were removed during the site investigation. In addition, a waste oil UST was partially unearthed. The USTs were removed by MacIntyre Fuels. Excavation was performed by Moe Dubois. Site monitoring during the tank removal was performed by Griffin International. All USTs were cut and cleaned on site. All excavated fill materials were backfilled on site. Asphalt and concrete materials were transported off-site.

The first tank removed was the 4,000-gallon regular unleaded gasoline UST, located furthest from the service station building. Approximately forty-gallons of rust colored liquid were removed from the UST. The UST was observed to be in good condition with no pitting, perforations, or leakage.

The second tank removed was the 3,000-gallon super unleaded gasoline UST, located between the two other tanks. Approximately twenty-gallons of rust colored liquid were removed from the UST. Although minor pitting was observed on both ends of the tank, the tank appeared to be in good condition with no evidence of perforations or leakage.

The third tank removed was the 4,000-gallon unleaded plus gasoline UST, located adjacent to the service center building. Approximately seventy-gallons of rust-colored liquid were removed from the UST. The UST was observed to be in good condition with no pitting, perforations, or leakage. Approximately 3-inches of water were observed on the western half of the bottom of the excavation. The water appeared to be impounded due to clayey fill material and the proximity of the building and retaining wall. The depth to groundwater is approximately 18-feet below the bottom of the UST.

### **3.2 Soil Screening**

During the UST removal soil samples were screened with an H-Nu Model PI 101 photoionization detector (PID) equipped with a 10.2 eV lamp. The PID was calibrated at the beginning of the day with a 100 ppm isobutylene span gas. Soil samples were collected at discrete intervals during the excavation, with additional samples taken from the vicinity of piping, and from the bottom of each excavation. The following tables summarize the soil screening results.

<b>SOIL SCREENING RESULTS</b> <b>4,000-Gallon Unleaded Plus Gasoline UST</b> <b>(southern most tank)</b> <b>Spillane's Texaco</b> <b>July 9, 1996</b>		
<b>Sample Location</b> <b>(End of tank, side of tank, other)</b>	<b>Depth (feet</b> <b>bgs</b>	<b>PID</b> <b>(ppm)</b>
Background	—	0.3
Above tank, composite	0.5	0.4
West end, near wall	1-2	7
West end, north side, near wall	2	3
East of tank, near piping	2	70
East end, directly along piping	2	90
Middle, south side	2-3	10

<b>SOIL SCREENING RESULTS</b> <b>4,000-Gallon Unleaded Plus Gasoline UST</b> <b>(southern most tank)</b> <b>Spillane's Texaco</b> <b>July 9, 1996</b>		
<b>Sample Location</b> <b>(End of tank, side of tank, other)</b>	<b>Depth (feet</b> <b>bgs)</b>	<b>PID</b> <b>(ppm)</b>
East end, south side, near piping	4	160
West end, south side, near vent	4	1
West end, north side, 2' from wall	4	5
East end, top of tank, near piping	5	25
Middle of tank, south of tank, 3' to building	5-6	50
West end, north side, near wall	6-7	30
Bottom of excavation, composite	8	110

<b>SOIL SCREENING RESULTS</b> <b>4,000-Gallon Regular Unleaded Gasoline UST</b> <b>(northern most tank)</b> <b>Spillane's Texaco</b> <b>July 9, 1996</b>		
<b>Sample Location</b> <b>(End of tank, side of tank, other)</b>	<b>Depth (feet</b> <b>bgs)</b>	<b>PID</b> <b>(ppm)</b>
Background	---	0.3
Above tank, composite	0.5	0.4
East end, east of tank and piping, above piping	1	1
Middle, north side, 5' from tank	1-2	4
East end, 3' southeast of tank, near piping	1-2	110
Above tank, middle, south side	1-2	25
Above tank, east end, near piping	1-2	100
Above tank, near piping	2-3	160
Above tank, west end, 6' from wall	4	5
West end, center, 6' from wall	4-5	10
Middle, north of tank, 8' from piping	5-6	40

<b>SOIL SCREENING RESULTS</b> <b>4,000-Gallon Regular Unlead Gasoline UST</b> <b>(northern most tank)</b> <b>Spillane's Texaco</b> <b>July 9, 1996</b>		
<b>Sample Location</b> <b>(End of tank, side of tank, other)</b>	<b>Depth (feet</b> <b>bgs)</b>	<b>PID</b> <b>(ppm)</b>
West end, middle, 3' from wall	6	7
East end, north side	6-7	1
Middle, south side, along tank	7	15
Bottom of excavation, composite	8	60

<b>SOIL SCREENING RESULTS</b> <b>3,000-Gallon Super Unleaded Gasoline UST</b> <b>(middle tank)</b> <b>Spillane's Texaco</b> <b>July 9, 1996</b>		
<b>Sample Location</b> <b>(End of tank, side of tank, other)</b>	<b>Depth</b> <b>(feet bgs)</b>	<b>PID</b> <b>(ppm)</b>
Background	—	0.3
Above tank, composite	0.5	0.4
Above tank, middle, north side	1-2	25
Above tank, east end, near piping	1-2	100
East end, south of tank, near piping	2-3	40
West end, middle, 3' from wall	3	30
Middle, south side	4	25
West end, south side	4-5	10
East end, north side, near piping for northern tank	5-6	190
East end, south side	6-7	170
West end, south side, at tank	7-8	10
Bottom of excavation, composite	8	110

SOIL SCREENING RESULTS Product Delivery Line, and Pump Removal Spillane's Texaco July 9, 1996		
Sample Location	Depth (feet bgs)	PID (ppm)
Background	—	0.3
Unlead. Plus (4k) line, 6' west of pump pad	2	1.0
Unlead. Plus (4k) line, at pump pad	2	1.0
Reg. Unlead. (4k) line, 6' west of pump pad	2-3	3.0
Super Unlead. (3k) line, 6' west of pump pad	3	3.0
North Pump	0.5	85
Middle Pump	0.5	170
South Pump	0.5	30

Sketch maps of the test locations are shown in Appendix 1 (page 5).

Analysis of PID soil-screening results indicate significant levels of petroleum contamination in the vicinity of the former USTs. Contamination levels were highest along the east end of the tanks, in the vicinity of product delivery pipes. Elevated PID readings in the vicinity of the piping upgradient of the USTs indicates a line or fitting failure (the lines to two tanks were pressure tested and failed in 1994). Although elevated PID readings were recorded directly under all three USTs, these levels were lower than would be expected if the USTs were leaking. Elevated PID levels directly under the former USTs are most likely a result of contamination from line or fitting leakage migrating near and under the former USTs. Compacted soils directly under the USTs may have also served to retain contamination, thus resulting in higher PID levels.

### 3.3 Groundwater Sampling

Groundwater samples from MW-1, MW-2, MW-3, and MW-4 collected July 9, 1996 were submitted for VOC analysis by EPA Method 602 (laboratory results are included in the Attachment). The results of this sampling are summarized in the following table.

GROUNDWATER ANALYTICAL RESULTS						
Spillane's Texaco						
July 9, 1996						
Location	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Total BTEX
MW-1	TBQ	ND	1.3	4.3	33.2	5.6
MW-2	4,050	7,800	2,220	19,500	27,600	33,570
MW-3	13,500	31,000	3,630	17,500	54,300	65,630
MW-4	ND	ND	ND	ND	ND	ND
Notes: All concentrations ppb ND = none detected TBQ = trace below quantitation						

Despite elevated BTEX concentrations and strong petroleum odors at MW-2 and MW-3, no free-product was observed during the July 9, 1996 sampling event using a clear bailer. Subsequently, groundwater and free-product measurements made on July 22, 1996 using an interface probe indicated 0.15 feet of free-product at MW-2. The remaining wells again had no free-product.

### 3.4 Site Survey and Groundwater Elevations

Monitoring well locations and top-of-pipe (TOP) elevations were surveyed on July 22, 1996. As shown on the Groundwater Elevation Map (Appendix 1, page 3), groundwater flow is to the west. The alignment of the wells on a near north-south axis prevents further characterization of the direction of groundwater flow. Based on groundwater level measurements, the water table is approximately 18-feet below the former USTs.

### 4.0 SENSITIVE RECEPTOR ANALYSIS

Sensitive receptors in the vicinity of Spillane's Texaco include the basement of the subject building, the basement of SAS Auto, located south of the subject property, the surface environment west of the retaining wall, and Lake Champlain.

The basement of the subject building consists of poured concrete, and is used for the storage and repair of automobiles. The northern wall of the basement directly abuts the contaminated fill in the vicinity of the former gasoline USTs removed July 9, 1996. It is possible that contaminated groundwater could pass through cracks in the concrete into the garage space. The basement was inspected by H&N staff on July 22, 1996. No evidence

of leakage was observed on the concrete walls or on the concrete slab floor of the basement. Screening of ambient air with an H-Nu PID detected no VOC concentrations above background in this area. Elevated VOC concentrations were observed elsewhere in the basement, however they were a result of the storage of waste oil, gasoline, and recovered free-product from the bailing program (the drum containing free-product was not adequately closed). Although the potential for contamination to enter the garage of Spillane's Texaco exists, no evidence of this occurring has been observed. The likelihood of the basement being impacted by UST contamination is low.

The basement of SAS Auto is located approximately 40-feet south of the southern corner of the Spillane's Texaco building. H&N inspected the basement of SAS Auto on July 22, 1996. No evidence of leakage was observed, nor were VOC levels above background observed. Based on test data, it is unlikely the building on SAS Auto Parts property has been impacted by contamination from the Spillane's Texaco site.

Lake Champlain is located approximately 700-feet west of the former USTs. Although test-pits excavated during H&N's investigation in 1994 estimated the western extent of contamination at approximately 80-feet from the Spillane's Texaco building, it is possible that contamination has entered the bed of the sewer line that runs west from the subject building (a Site Plan is included in the Appendix 1, page 2). The extent of contamination could be greater than previously reported.

## **5.0 CORRECTIVE ACTION**

Based on the continued presence of elevated BTEX levels in at least two of the on-site monitor wells, and the discovery of additional petroleum contamination in the soil in the vicinity of the three gasoline USTs removed on July 9, 1996, H&N proposes the installation of an additional six wells to better characterize the extent and degree of contamination. The following is an explanation for the locations of the six proposed monitoring wells, shown on the proposed monitor well locations sketch (Appendix 1, page 4):

- MW-A upgradient well to determine quality of groundwater entering the site,
- MW-B to establish water quality beneath the product line,
- MW-C & D to determine the lateral extent of contamination,
- MW-D will also evaluate whether contamination has moved down utility trenches along College street,
- MW-E & F to determine the downgradient extent of contamination.

Following the installation of the new wells, H&N proposes a second round of groundwater samples (EPA Method 602) of all wells to develop the best available data on the plume geometry.

Once the extent of contamination has been established we will develop a plan for site management.

## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

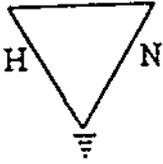
H&N has completed a site investigation of the Spillane's Texaco facility on Battery Street in Burlington, VT. The site investigation was performed during the removal of three gasoline USTs from the site, and included the screening of soil for VOCs, a sensitive receptor analysis, sampling of groundwater monitor wells, and a proposed remediation plan.

Field screening of soil samples with a PID during the removal of three gasoline USTs indicated elevated VOCs in each of the former UST locations. A review of product inventory records did not indicate a clear trend, nor a product deficit of greater than 10% of total volume. Because PID levels were highest along fuel distribution lines, and all three USTs were observed to be in good condition, H&N believes leaking fuel lines, and not substantial leakage from the USTs, is the likely source of contamination observed in the downgradient monitor wells.

Sampling of the groundwater monitor wells indicated elevated BTEX levels in monitor wells MW-2 and MW-3. In addition, 0.15 feet of free-product was observed in monitor well MW-2 on July 22, 1996. Product bailing should continue.

A preliminary sensitive receptor analysis identified several receptors including the basement of the Spillane's Texaco, the basement of SAS Auto Parts, the surface environment near the facility, and Lake Champlain. Neither basement was observed to have been impacted by the contamination from Spillane's Texaco. No petroleum was observed in the surface environment. Lake Champlain is greater than 500-feet west of the limits of contamination as estimated by H&N in October, 1994. Based on the amount of contamination observed during this investigation, and ongoing free-product removal activities, H&N concludes that it is unlikely Lake Champlain will be impacted.

H&N recommends that an additional six monitor wells be installed on the subject property to further define the extent and degree of contamination. [H&N\_PROJECTS\SPILLANE\SPILL\_BT.DOC]



# Heindel and Noyes

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FILE COPY

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Nov 24, 1997

Pages 1

MAILED / FAXED / HD

To: Scott Bigger

From: Jeffrey Noyes

We had an inquiry recently from the State of Vermont regarding the Battery St. Spillanes Site. You have yet to give us the go ahead to send that report final. Please let us know what your intentions are.

NOTE TO RECEIVING OPERATOR: IF THE WORDS "COPY FAX" APPEAR NEXT TO A RECIPIENT'S NAME, PLEASE PHOTOCOPY TRANSMITTAL FOR DISTRIBUTION TO THAT RECIPIENT.

THIS FACSIMILE TRANSMITTAL IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL, AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

MEMORANDUM

TO: Jeff Noyes  
Steve LaRosa

Dictated-Not Edited

FR: Dean Grover

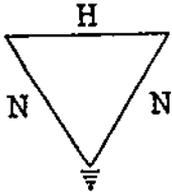
DT: November 21, 1997

RE: Telephone Conversation with Mike Young, Sites Management Section

While discussing other SMS projects with **Mike Young**, he mentioned the Spillanes Battery Street site. On July 9, 1996, Griffin Environmental performed a tank pull at the Spillage's Battery Street site, pulling all three tanks on the site. I believe this leaves no tanks on the property. During the tank pull, **Padraic Monks** was on site, apparently collecting data for a future site investigation report. Mike said that this site has languished in the State files since July, 1996. It is unclear to him who the consultant is for the site. Once that is cleared up (by talking with Scott Bigger or Padraic), additional site work is necessary, since the tank pull was a dirty one.

DAG:jtl

U:\DGROVER\WPDOCS\SPIL.M1



## **Nelson, Heindel, and Noyes**

- Consulting Hydrogeologists
- Engineers
- Environmental Scientists

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August 15, 1996

Mr. Scott Bigger  
Spillane's Service Center  
1951 Shelburne Road  
Shelburne, VT 05482

Re: Site Investigation and Proposal for Further Monitoring and Remediation  
Spillane's Texaco Station, Battery Street, Burlington

Dear Scott:

Enclosed for your review is the draft report of our recent site investigation. Included in the report is a cost proposal for additional monitoring and remediation, as requested by the State. Since we have not completed site characterization, please consider the estimates for remediation as estimated.

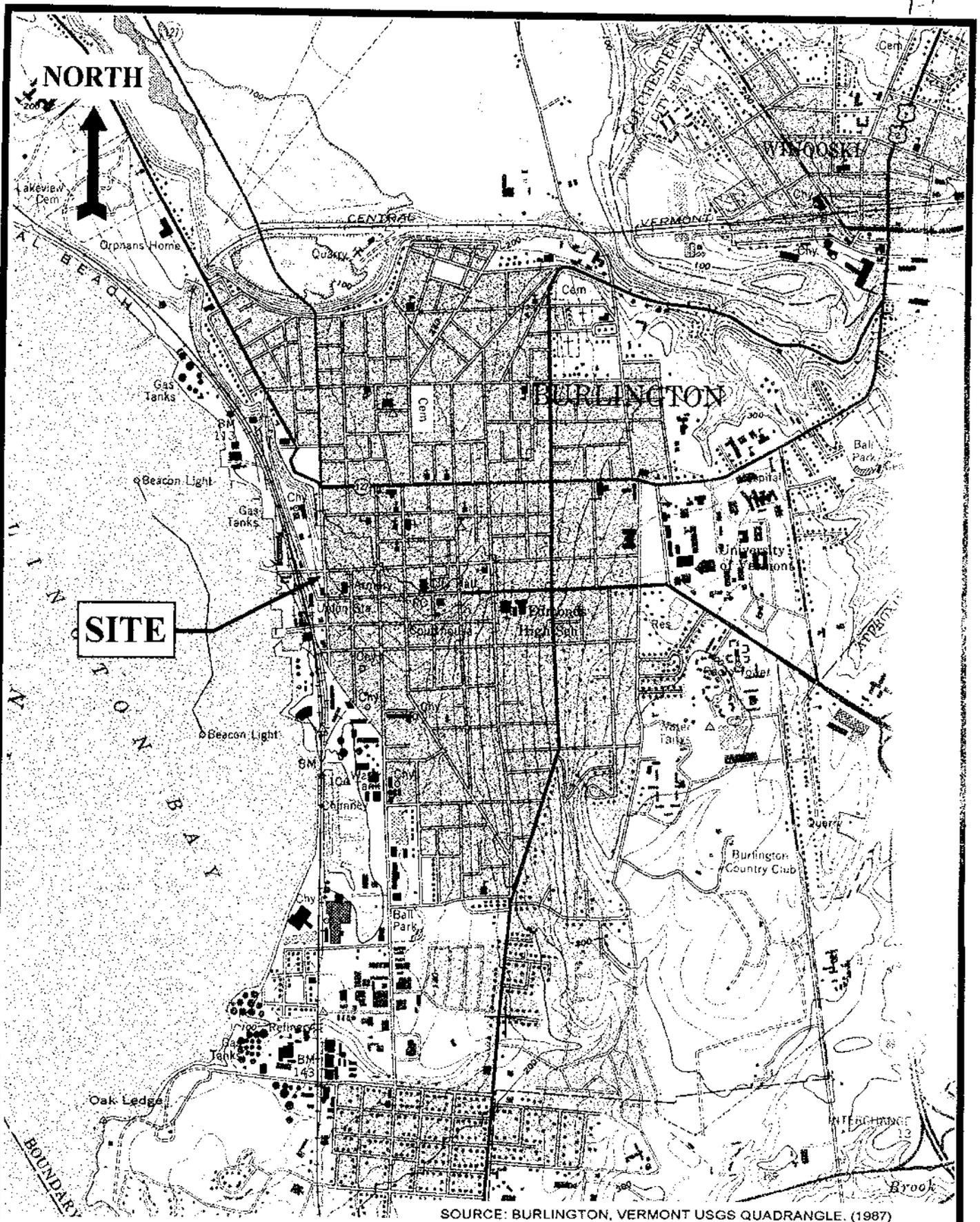
Best regards,

Jeffrey E. Noyes  
Chief Hydrogeologist

JEN/jb

Attachment

[U:\PMONKSIWPDQCS\SPILLAIN.E.11]



SOURCE: BURLINGTON, VERMONT USGS QUADRANGLE. (1987)

**Spillane's Texaco/Battery Street**

BURLINGTON, VERMONT

**SITE LOCATION MAP**

SCALE: 1"=2000'

FILE: C:\SPILLANE\SITEMAP

DATE: AUGUST 6, 1996

PROJECT #: 94307

DRAWN BY: M. Luman

PROJ. MGR: P. Monks

APPROVED BY: J. Noyes

**Nelson, Heindel, and Noyes**

- Hydrogeology • Ecology •
- Environmental Engineering •
- CONSULTING SCIENTISTS AND ENGINEERS

P.O. BOX 64709  
BURLINGTON, VERMONT 05406-4709

Prepared By:  
Information & Visualization Services



BATTERY STREET

CURB

PUMP ISLAND

TP-6

ALL UST'S 20+ YEARS OLD SINGLE WALLED

RETAINING WALL (POURED CONCRETE)

REGULAR UNLEADED 4,000 GAL  
SUPER UNLEADED 3,000 GAL  
UNLEADED PLUS 4,000 GAL

SPILLANE'S TEXACO

STEPPED RETAINING WALL (CONCRETE BLOCKS)

GARAGE DOORS (TO BASEMENT)

TP-3  
MW-1 MW-2 MW-3  
RV-1

SEWER SERVICE LINE

RV-2

MW-4

COLLEGE STREET

CURB

GRAVEL PARKING LOT

TP-1

TP-4 (87'W X 25'S)

CATCH BASIN

LAKE STREET

NOTES:

- TP-2 EXCAVATED AT LOCATION OF RW-1.
- TP-5 EXCAVATED AT LOCATION OF RW-2.
- MW-1 THRU MW-4 ARE 2" DIAMETER MONITORING WELLS.
- RW-1 AND RW-2 ARE 18" DIAMETER RECOVERY WELLS.

WELL #	T.O.P. ELEV. (FT)
MW-1	99.21
MW-2	99.26
MW-3	99.13
MW-4	98.81

SPILLANE'S TEXACO  
125 BATTERY STREET

BURLINGTON,

VERMONT

SITE PLAN

DATE: JULY 23, 1996

PROJECT NO. 94307

DRAWN BY: M. Luman

PROJ. MGR: P. Monks

APPROVED: J. Noyes

Nelson, Heindel, and Noyes



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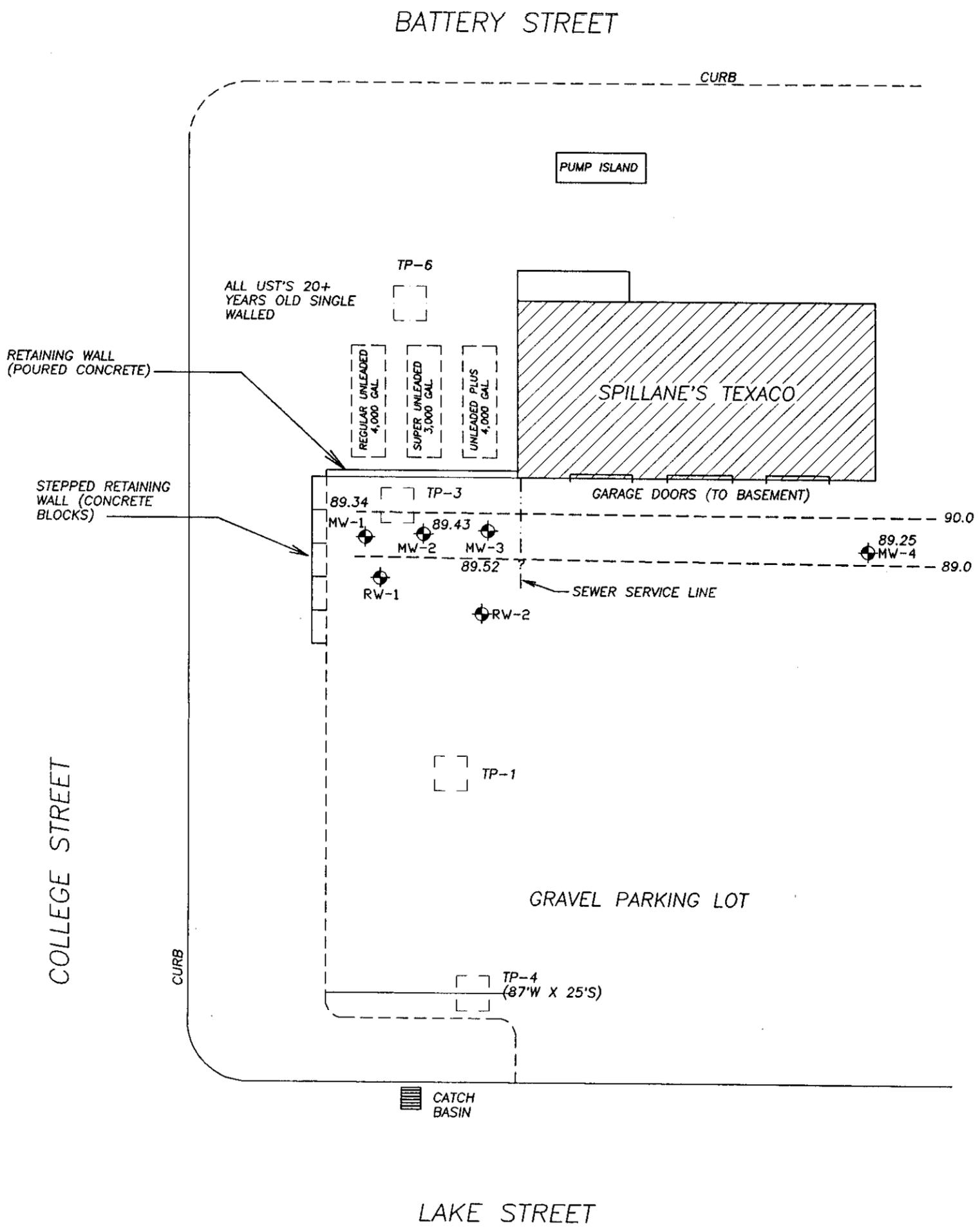
Prepared By:  
Information & Visualization Services

SCALE: 1"=20'

FILE: C:\SPILLANE\BATTERY

DRAFT

FINAL

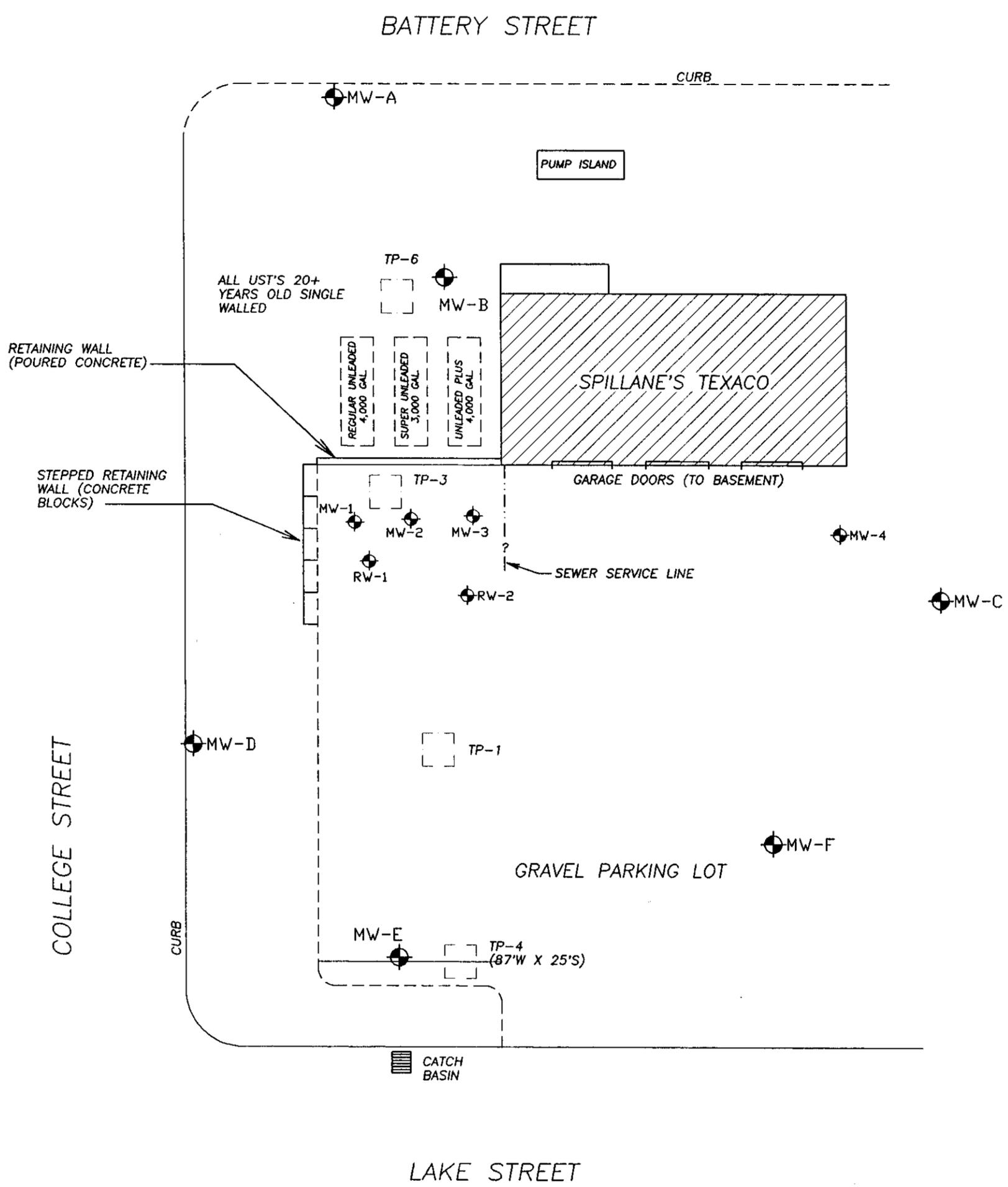


**NOTES:**

- TP-2 EXCAVATED AT LOCATION OF RW-1.
- TP-5 EXCAVATED AT LOCATION OF RW-2.
- MW-1 THRU MW-4 ARE 2" DIAMETER MONITORING WELLS.
- RW-1 AND RW-2 ARE 18" DIAMETER RECOVERY WELLS.

WELL #	T.O.P. ELEV. (FT)	DEPTH BELOW T.O.P. (FT)	WATER TABLE ELEV. (FT)
MW-1	99.21	9.87	89.34
MW-2	99.26	9.83	89.43
MW-3	99.13	9.61	89.52
MW-4	98.81	9.56	89.25

<p><b>SPILLANE'S TEXACO</b> 125 BATTERY STREET BURLINGTON, VERMONT</p>		<p>DATE: JULY 26, 1996 PROJECT NO. 94307 DRAWN BY: M. Luman PROJ. MGR: P. Monks APPROVED: J. Noyes</p>	<p><b>Nelson, Heindel, and Noyes</b></p> <p>• Hydrogeology • Ecology • • Environmental Engineering • CONSULTING SCIENTISTS AND ENGINEERS</p> <p>P.O. BOX 64709 BURLINGTON, VERMONT 05406-4709</p>
<p>GROUNDWATER ELEVATION CONTOUR MAP (7-23-96)</p>		<p>Prepared By: <b>Information &amp; Visualization Services</b></p>	
<p>SCALE: 1"=20'</p>	<p>FILE: C:\SPILLANE\BATTERY</p>	<p><input checked="" type="checkbox"/> DRAFT    <input type="checkbox"/> FINAL</p>	



**NOTES:**

- MW-A PROPOSED NEW MONITOR WELL LOCATION
- TP-2 EXCAVATED AT LOCATION OF RW-1.
- TP-5 EXCAVATED AT LOCATION OF RW-2.
- MW-1 THRU MW-4 ARE 2" DIAMETER MONITORING WELLS.
- RW-1 AND RW-2 ARE 18" DIAMETER RECOVERY WELLS.

WELL #	T.O.P. ELEV. (FT)
MW-1	99.21
MW-2	99.26
MW-3	99.13
MW-4	98.81

**SPILLANE'S TEXACO**  
125 BATTERY STREET

BURLINGTON,

VERMONT

**PROPOSED MONITOR WELL LOCATIONS**

SCALE: 1"=20'

FILE: C:\SPILLANE\BATTERY

DATE: JULY 23, 1996

PROJECT NO. 94307

DRAWN BY: M. Luman

PROJ. MGR: P. Monks

APPROVED: J. Noyes

DRAFT     FINAL

**Nelson, Heindel, and Noyes**



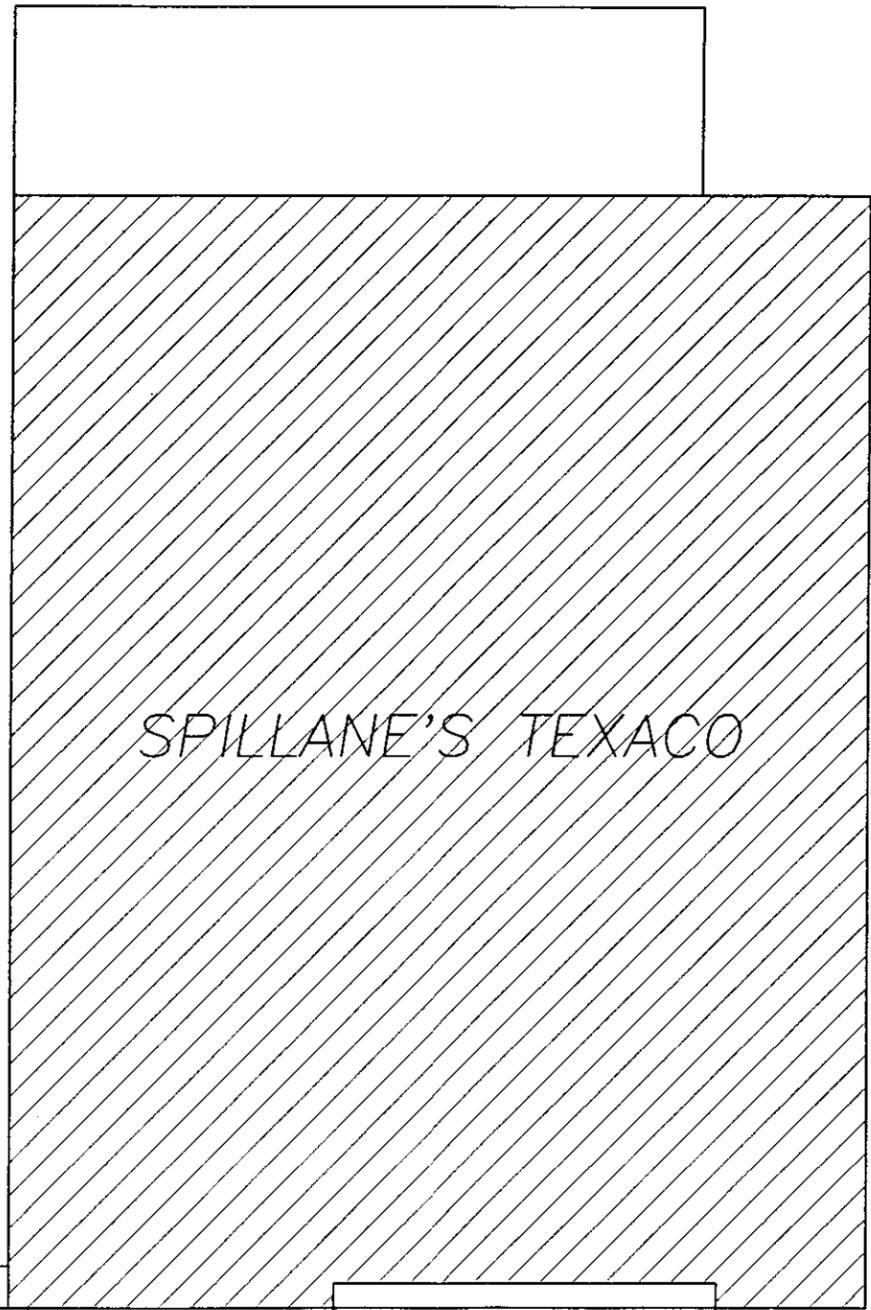
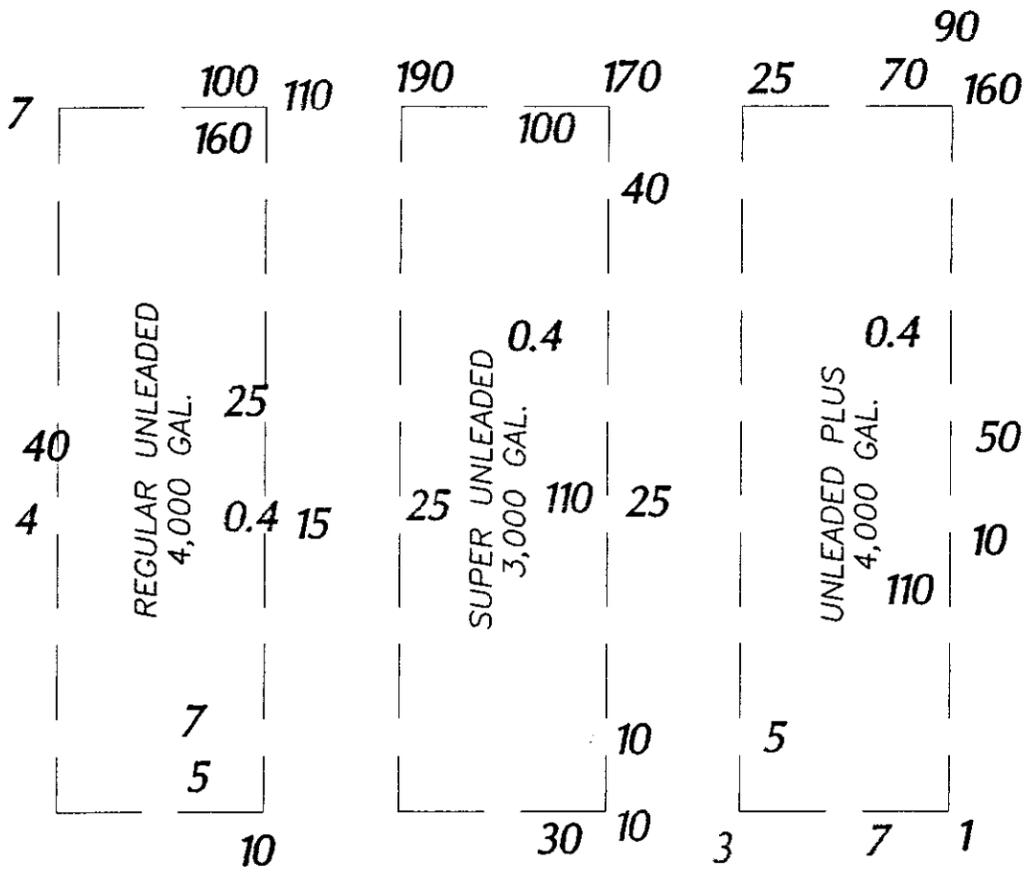
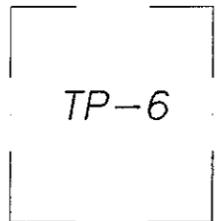
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Prepared By:  
Information & Visualization Services



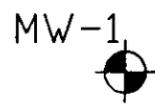
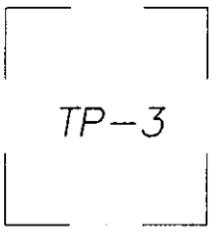
ALL UST'S 20+ YEARS OLD SINGLE WALLED



SPILLANE'S TEXACO

RETAINING WALL (POURED CONCRETE)

STEPPED RETAINING WALL (CONCRETE BLOCKS)



GARAGE DOORS (TO BASEMENT)

SEWER SERVICE LINE

**LEGEND**

4\* SOIL SCREENING LOCATION (APPROX.) - 0 - 2 FT BGS

40 SOIL SCREENING LOCATION (APPROX.) - 3 - 5 FT BGS

15 SOIL SCREENING LOCATION (APPROX.) - 6 - 8 FT BGS

\* All readings ppm

**Nelson, Heindel, and Noyes**

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- Environmental Engineering •
- CONSULTING SCIENTISTS AND ENGINEERS

P.O. BOX 64709  
BURLINGTON, VERMONT 05406-4709

Prepared By:  
Information & Visualization Services

DATE: AUGUST 13, 1996

PROJECT NO. 94307

DRAWN BY: M. Luman

PROJ. MGR: P. Monks

APPROVED: J. Noyes

DRAFT     FINAL

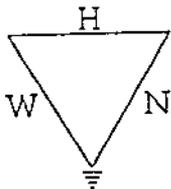
SPILLANE'S TEXACO

BURLINGTON, VERMONT

SOIL SCREENING LOCATION MAP

FILE: C:\SPILLANE\SOILSAMP

SCALE: 1" = 5'



## Wagner, Heindel, and Noyes, Inc.

P.O. Box 1629 Burlington, Vermont 05402-1629

802-658-0820  
FAX: 802-860-1014

- Consulting Hydrogeologists
- Engineers
- Environmental Scientists

October 26, 1994

Mr. Ted Unkles  
Underground Storage Tank Section  
Hazardous Materials Management Division  
Agency of Natural Resources  
103 South Main Street  
Waterbury, VT 05671-0404

RE: Spillane's Texaco, Battery Street, Burlington, Vermont

Dear Mr. Unkles:

Pursuant to telephone conversations with Marc Coleman, we are providing written documentation of test pit investigations performed at the Spillane's Texaco station at 125 Battery Street on Thursday, October 13, 1994. These test pits were installed following discovery of free product in monitoring wells at this site.

### 1.0 SITE LOCATION AND PHYSIOGRAPHY

The Spillane's Texaco station is located at 125 Battery Street in Burlington, Vermont at the corner of Battery Street and College Street. A site location map is attached (Attachment, page 1). The property also borders on Lake Street to the west.

The site slopes moderately steeply to the west, toward Lake Champlain. A vertical retaining wall provides about 18 feet of relief between the eastern (upper) and western (lower) portions of the site (see site sketch; Attachment, page 2). The three gasoline USTs at this site are directly east of this retaining wall.

Test pits have revealed that the native soils beneath the site (likely to have been lake silts/clays) have been replaced by fill consisting of an assortment of materials: ash, coal, coal clinkers, brick and sandy fill. Permeabilities of these fill materials are believed to be higher than the native silt/clays that they have displaced.

### 2.0 HISTORY OF PRODUCT RELEASE

Release of product from some portion of the UST and supply piping system at the Battery Street Texaco Station was first discovered in monitoring wells MW-2 and MW-3 on September 20, 1994, during routine weekly monitoring. Monitoring records are attached (Attachment, pages 3 - 5). Monitoring frequency was increased from weekly

to twice daily following this discovery. More recently, monitoring has been increased to three times per day. All product in the wells has been hand-bailed and stored inside the garage in a labelled 55 gallon drum, by Spillane's personnel.

Spillane's Servicecenters hired Sherman V. Allen to perform tightness tests of the product lines leading from the UST's to the pumps on October 6, 1994. A test could not be performed on the regular unleaded line since no check valve is attached to this line. The unleaded plus line test held 40 psi of pressure momentarily then dropped quickly to zero. There was no sound of air escaping back into the tank (signifying leakage around a check valve) so a line leak is assumed in this pipe. The premium unleaded line was tested with 42 psi of air which held for about a minute then dropped to zero. The sound of escaping air was noted in the tank during the test, suggesting the check valve for this line was failing.

On October 4th and 5th all three tanks were pumped of all product that could be recovered with the commercial pumps. Spillane personnel then hand pumped additional product, until the following depth of product and approximate volume remained in each tank:

Tank	Depth of Product	Volume Remaining
Reg. Unleaded	3/4"	11 gallons
Unleaded Plus	3/4"	11 gallons
Unleaded Super	1/2"	5 gallons

A 2,000 gallon abandoned gasoline tank, located roughly in the vicinity of test pit TP-1 on the site sketch, was pulled in 1986. Notes from this tank pull indicate that the tank contained no holes and surrounding soils were clean.

### 3.0 TEST PIT SUBSURFACE INVESTIGATION

The site sketch shows the approximate location of six test pits installed on October 13. Test pits were installed by A. Marcelino & Co., Inc. under WH&N supervision. Photographs of these activities are attached. Our work concentrated on the western side of the site, downgradient of the UST's.

On arrival at the site we calibrated the Photovac microtip (using 100 ppm isobutylene span gas), then collected headspace PID readings of the three monitoring wells at the site:

Well ID	PID
MW-1	125
MW-2	300+
MW-3	185

Using a clear bailer we checked for free product in all wells and found 1/8 inch in MW-2 and 1/16 inch in MW-3. This product was bailed from the wells.

Our first test pit, TP-1, located about 50 feet west of the retaining wall for the UST's, showed no PID detectable signs of contamination until we reached a depth of about 4.5 feet below ground surface (bgs). An ash layer was encountered at this depth with a PID of 10.6. From 4.5 to 11.5 feet bgs we continued to encounter ash, coal clinkers, bricks and other signs of fill material. PIDs ranged from 4 to 10 (direct measurements from excavated spoils). A headspace PID of sandy fill material collected at 11 feet bgs had a PID of 60. A second sample collected at 11.5 feet bgs where silty sand was encountered, had a PID of 85. The excavator was unable to reach any deeper than 11.5 feet.

We then excavated TP-2 closer to the retaining wall (17 feet west of the wall) and encountered no PID detectable contamination until reaching 11 feet of depth. The nearby monitoring wells (MW1 and MW2) showed a depth to the water table of about 10.5 feet. At 11 feet of depth in test pit TP2, a bagged sample of fill material had a PID signature of 880. At a depth of 12 feet extracted fill material (not bagged) showed a PID signature of 920, and strong odors and sheens indicated that free product was located in this test pit.

We left test pit TP-2 open for the time being and attempted to excavate a test pit at the retaining wall (TP-3). However, we encountered concrete at a depth of 3 feet below ground surface and discontinued this test pit. No PID detectable contaminants were observed to 3 feet bgs in TP-3.

TP-4 was located near the western edge of the property to evaluate whether contamination had left the site. This test pit is 87 feet west of the retaining wall. In this test pit, we observed the following soils and PID values: 1-3 feet sand fill, PID = ND; 3-4 feet ash, PID = ND; 5-9 feet sandy fill with bricks, PID = ND; 9-10 foot sample (bagged), PID = 0.2; 11 feet (bagged sample), PID = 1.0. We consequently determined from TP-4 that no PID detectable contamination has reached the western edge of the property.

Our next test pit, TP-5 was located 22 feet west of the retaining wall and 18 feet south of test pit TP-2. In this test pit, we encountered the following materials: 1-3 feet sand fill, 4-5 feet ashes, 5-14 feet sand fill with abundant bricks. PIDs of soils from 5-14 feet

1-9

were 1,000+ (unbagged). Groundwater was encountered showing heavy sheens and free product. We were able to excavate deeper in this test pit, by first establishing a bench adjacent to the pit for the excavator to work from.

Before backfilling test pits TP-2 and TP-5 we felt it prudent to install recovery wells for later remediation work. We therefore, ordered 1 load (14 yards) of 1/2" minus crushed stone to the site and two 18 inch diameter SDR 35 plastic pipes. Using about 7 yards of stone in each test pit, we installed RW-1 in TP-2 to a depth of 10 feet below ground surface and RW-2 in TP-5 to a depth of 14 feet below ground surface.

Our final test pit at the site, TP-6 was located upgradient of the UST's to examine any releases from the supply pipes between the tanks and the pumps. Site conditions were cramped at this location and we were only able to excavate to a depth of 4 feet below ground surface. The following information was obtain: 0 - 0.6 feet, blacktop; 0.6 - 1.3 feet, plant mix; 1.3 feet to 4 feet, gray silt, (PID = 50); 1 1/2 inch galvanized pipe found. Digging ceased at test pit TP-6 to avoid major disruption of the thick blacktop at this location.

#### 4.0 INTERPRETATION

Early data gathered at this site leads us to the following conclusions:

1. Gasoline product appears to have recently escaped from product lines or tanks and migrated west (downgradient). A steep hydraulic gradient likely has formed across the 18-foot high retaining wall just west of the tanks, so any releases would likely be noted in a relatively short period.
2. Contamination extends vertically from about 4.5 feet bgs to over 12 feet bgs, affecting both contaminated and saturated soils (fill).
3. The horizontal limits of contamination appears to be a footprint approximately 30 - 40 feet wide (N-S) by 60 - 80 feet long (E-W).
4. Contamination noted in TP-6, upgradient of the tanks, but adjacent to product lines, suggests a line leak. This conjecture is supported by a failed leak test on the unleaded plus product line.

#### 5.0 RECOMMENDATIONS

Based on preliminary information on this recent product release, gathered during the test pit work described above, we recommend the following near-term remediation activities at this site:

Mr. Ted Unkles  
October 26, 1994  
Page 5

1. **Pumps to remain out of service.** Until tank integrity and line integrity have been established at this site, no product will be delivered to the tanks and no dispensing of gasoline products will occur.
2. **Removal of free product.** Hand-bailing of any product in the three 2-inch diameter monitoring wells located just west of the retaining wall will continue at least once per day. Sorbent pads in RW-2 will also be replaced with fresh pads. Gasoline-soaked pads are also stored in the same drum as recovered product. There is presently no water in RW-1. Spillane's personnel will perform this bailing, and will record the initial product thickness and total thickness of product removed each day.
3. **Obtain cost estimates for tank tightness tests and tank removal and/or replacement.** Scott Bigger of Spillane's Servicercenter will obtain price quotes for tank tightness tests, for replacements of the product lines, for removal of product lines and tanks, and for both removal and replacement of product lines and tanks. These prices will be used to determine the next course of action at the site with regards to excavation of the tanks and tank lines. Cost data for these activities will be available within the next week to ten days, and specific written recommendations describing the status of the UST's and product lines will be submitted to the HMMD no later than November 7, 1994. Excavation of the product lines, and possibly the tanks will provide additional information on subsurface materials, the origin, and the extent of contamination at the site. This information will be used in designing and installing a remediation system in the next 30 - 60 days.

Please don't hesitate to contact me or Jeff Noyes should you have any questions about these initial findings and recommendations.

Sincerely,



Dean A. Grover, PE  
Chief Engineer Environmental Division

DAG/tls

cc: Scott Bigger, Spillane's Servicecenter

[DAGROVER\WPDOCS\Spillane.L1]

ITE 1994

Battery Street

motor fuel  
inventory control

**JANUARY** METER/STICK VERIFICATION

	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY 1/1	924	2040	1605	
RECEIPTS	1100	6101	1000	
TOTAL				
LESS: METER SALES	1468	6186	1721	
BOOK INVENTORY	536	1955	884	
CLOSING STICK INVENTORY 1/31	536	1920	844	
METER OVER/SHORT	-20	-35	-40	

**FEBRUARY** METER/STICK VERIFICATION

	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY 2/1	536	1920	844	
RECEIPTS	2107	5000	1099	
TOTAL				
LESS: METER SALES	1313	5588	1428	
BOOK INVENTORY	1330	1332	515	
CLOSING STICK INVENTORY 2/28	1258	1374	536	
METER OVER/SHORT	-72	+42	+21	

**MARCH** METER/STICK VERIFICATION

	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY 3/1	1258	1374	536	
RECEIPTS	799	7798	2100	
TOTAL				
LESS: METER SALES	1492	6357	1382	
BOOK INVENTORY	565	2815	1254	
CLOSING STICK INVENTORY 3/31	632	2795	1203	
METER OVER/SHORT	+67	-20	-51	

**APRIL** METER/STICK VERIFICATION

	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY 4/1	632	2795	1203	
RECEIPTS	702	6994	2200	
TOTAL				
LESS: METER SALES	519	7044	2411	
BOOK INVENTORY	515	2750	992	
CLOSING STICK INVENTORY 4/30	490	2710	1001	
METER OVER/SHORT	-25	-40	+9	

DATE 1994

Battery Street

motor fuel  
inventory control

*MAY*

METER/STICK VERIFICATION

	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY 5/1	490	2710	1001	
RECEIPTS	1852	7399	2101	
TOTAL				
LESS: METER SALES	1792	7440	1926	
BOOK INVENTORY	550	2664	1176	
CLOSING STICK INVENTORY 5/31	536	2640	1174	
METER OVER/SHORT	-14	-29	-2	

*JUNE*

METER/STICK VERIFICATION

	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY 6/1	536	2640	1174	
RECEIPTS	1824	7798	2000	
TOTAL				
LESS: METER SALES	1837	8571	2253	
BOOK INVENTORY	523	1867	921	
CLOSING STICK INVENTORY 6/30	520	1820	929	
METER OVER/SHORT	-3	-47	+8	

*July*

METER/STICK VERIFICATION

	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY 7/1	520	1820	929	
RECEIPTS	1712	10849	1799	
TOTAL				
LESS: METER SALES	1962	9656	2489	
BOOK INVENTORY	270	3013	239	
CLOSING STICK INVENTORY 7/31	271	2786	295	
METER OVER/SHORT	+1	-227	+56	

*August*

METER/STICK VERIFICATION

	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY 8/1	271	2786	295	
RECEIPTS	3069	9400	3300	
TOTAL				
LESS: METER SALES	2068	9720	2158	
BOOK INVENTORY	1272	2466	1437	
CLOSING STICK INVENTORY	1182	2396	1365	
METER OVER/SHORT	-90	-90	-72	

DATE 10/14

Battery Street

motor fuel  
inventory control

*September*

METER/STICK VERIFICATION

	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY 9/11	1182	2396	1365	
RECEIPTS	949	7444	1000	
TOTAL				
LESS: METER SALES	2057	8781	2069	
BOOK INVENTORY	124	1114	296	
CLOSING STICK INVENTORY 9/30	185	1144	356	
METER OVER/SHORT	+61	+30	+60	

*October*

METER/STICK VERIFICATION

	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY 10/1	185	1144	356	
RECEIPTS	0	0	0	
TOTAL	185	1144	356	
LESS: METER SALES	174	1168	347	
BOOK INVENTORY	11	(24)	9	
CLOSING STICK INVENTORY	48	52	51	
METER OVER/SHORT	+ 37	+ 76	+ 42	

METER/STICK VERIFICATION

	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY				
RECEIPTS				
TOTAL				
LESS: METER SALES				
BOOK INVENTORY				
CLOSING STICK INVENTORY				
METER OVER/SHORT				

METER/STICK VERIFICATION

	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY				
RECEIPTS				
TOTAL				
LESS: METER SALES				
BOOK INVENTORY				
CLOSING STICK INVENTORY				
METER OVER/SHORT				

DATE \_\_\_\_\_

Battery Street

motor fuel  
inventory control

METER/STICK VERIFICATION				
	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY				
RECEIPTS				
TOTAL				
LESS: METER SALES				
BOOK INVENTORY				
CLOSING STICK INVENTORY				
METER OVER/SHORT				

METER/STICK VERIFICATION				
	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY				
RECEIPTS				
TOTAL				
LESS: METER SALES				
BOOK INVENTORY				
CLOSING STICK INVENTORY				
METER OVER/SHORT				

METER/STICK VERIFICATION				
	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY				
RECEIPTS				
TOTAL				
LESS: METER SALES				
BOOK INVENTORY				
CLOSING STICK INVENTORY				
METER OVER/SHORT				

METER/STICK VERIFICATION				
	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY				
RECEIPTS				
TOTAL				
LESS: METER SALES				
BOOK INVENTORY				
CLOSING STICK INVENTORY				
METER OVER/SHORT				

DATE \_\_\_\_\_

Battery Street

motor fuel  
inventory control

METER/STICK VERIFICATION				
	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY				
RECEIPTS				
TOTAL				
LESS: METER SALES				
BOOK INVENTORY				
CLOSING STICK INVENTORY				
METER OVER/SHORT				

METER/STICK VERIFICATION				
	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY				
RECEIPTS				
TOTAL				
LESS: METER SALES				
BOOK INVENTORY				
CLOSING STICK INVENTORY				
METER OVER/SHORT				

METER/STICK VERIFICATION				
	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY				
RECEIPTS				
TOTAL				
LESS: METER SALES				
BOOK INVENTORY				
CLOSING STICK INVENTORY				
METER OVER/SHORT				

METER/STICK VERIFICATION				
	UNLEADED PLUS	UNLEADED	SUPER	DIESEL
OPENING STICK INVENTORY				
RECEIPTS				
TOTAL				
LESS: METER SALES				
BOOK INVENTORY				
CLOSING STICK INVENTORY				
METER OVER/SHORT				

MONITORING WELLS CHECK

0.5

BATTERY STREET

NGD = No Gas Detected

1992

1992

Checked by					Checked by				
Date	Well 1	Well 2	Well 3	Well 4 (Inits)	Date	Well 1	Well 2	Well 3	Well 4 (Inits)
6/9/92	NGD	NGD	NGD	NGD	11/21/93	NGD	NGD	NGD	NGD
6/20/92	NGD	NGD	NGD	NGD	1/9/93	NGD	NGD	NGD	NGD
6/27/92	NGD	NGD	NGD	NGD	1/16/93	NGD	NGD	NGD	NGD
7/3/92	NGD	NGD	NGD	NGD	1/23/93	NGD	NGD	NGD	NGD
7/13/92	NGD	NGD	NGD	NGD	1/30/93	NGD	NGD	NGD	NGD
7/18/92	NGD	NGD	NGD	NGD	2/6/93	NGD	NGD	NGD	NGD
7/25/92	NGD	NGD	NGD	NGD	2/13/93	NGD	NGD	NGD	NGD
8/1/92	NGD	NGD	NGD	NGD	2/20/93	NGD	NGD	NGD	NGD
8/8/92	NGD	NGD	NGD	NGD	2/27/93	NGD	NGD	NGD	NGD
8/15/92	NGD	NGD	NGD	NGD	3/6/93	NGD	NGD	NGD	NGD
8/22/92	NGD	NGD	NGD	NGD	3/13/93	NGD	NGD	NGD	NGD
8/29/92	NGD	NGD	NGD	NGD	3/20/93	NGD	NGD	NGD	NGD
9/5/92	NGD	NGD	NGD	NGD	3/27/93	NGD	NGD	NGD	NGD
9/12/92	NGD	NGD	NGD	NGD	4/13/93	NGD	NGD	NGD	NGD
9/19/92	NGD	NGD	NGD	NGD	4/16/93	NGD	NGD	NGD	NGD
9/26/92	NGD	NGD	NGD	NGD	4/17/93	NGD	NGD	NGD	NGD
10/3/92	NGD	NGD	NGD	NGD	4/24/93	NGD	NGD	NGD	NGD
10/10/92	NGD	NGD	NGD	NGD	5/1/93	NGD	NGD	NGD	NGD
10/17/92	NGD	NGD	NGD	NGD	5/6/93	NGD	NGD	NGD	NGD
10/24/92	NGD	NGD	NGD	NGD	5/15/93	NGD	NGD	NGD	NGD
10/31/92	NGD	NGD	NGD	NGD	5/22/93	NGD	NGD	NGD	NGD
11/4/92	NGD	NGD	NGD	NGD	5/28/93	NGD	NGD	NGD	NGD
11/21/92	NGD	NGD	NGD	NGD	6/14/93	NGD	NGD	NGD	NGD
11/28/92	NGD	NGD	NGD	NGD	6/12/93	NGD	NGD	NGD	NGD
12/5/92	NGD	NGD	NGD	NGD	6/19/93	NGD	NGD	NGD	NGD
12/11/92	NGD	NGD	NGD	NGD	6/26/93	NGD	NGD	NGD	NGD
12/18/92	NGD	NGD	NGD	NGD	7/2/93	NGD	NGD	NGD	NGD
12/24/92	NGD	NGD	NGD	NGD	7/16/93	NGD	NGD	NGD	NGD

1/

MONITORING WELLS CHECK

(2) 6  
1994

BATTERY STREET

NGD = No Gas Detected

Date	Well				Checked by (Inits)	Date	Well				(Inits)
	1	2	3	4			1	2	3	4	
7/17	MGD	MGD	MGD	MGD	SC	1/29/94	MGD	MGD	MGD	MGD	SC
7/24	MGD	MGD	MGD	MGD	SC	2/5/94	MGD	MGD	MGD	MGD	SC
7/31	MGD	MGD	MGD	MGD	SC	2/12/94	MGD	MGD	MGD	MGD	SC
8/7/93	MGD	MGD	MGD	MGD	SC	2/19/94	MGD	MGD	MGD	MGD	SC
8/14/93	MGD	MGD	MGD	MGD	SC	2/26/94	MGD	MGD	MGD	MGD	SC
8/20/93	MGD	MGD	MGD	MGD	SC	3/5/94	MGD	MGD	MGD	MGD	SC
8/28/93	MGD	MGD	MGD	MGD	SC	3/12/94	MGD	MGD	MGD	MGD	SC
9/4/93	MGD	MGD	MGD	MGD	SC	3/19/94	MGD	MGD	MGD	MGD	SC
9/11/93	MGD	MGD	MGD	MGD	SC	3/26/94	MGD	MGD	MGD	MGD	SC
9/18/93	MGD	MGD	MGD	MGD	SC	4/2/94	MGD	MGD	MGD	MGD	SC
9/25/93	MGD	MGD	MGD	MGD	SC	4/9/94	MGD	MGD	MGD	MGD	SC
10/2/93	MGD	MGD	MGD	MGD	SC	4/16/94	MGD	MGD	MGD	MGD	SC
10/9/93	MGD	MGD	MGD	MGD	SC	4/23/94	MGD	MGD	MGD	MGD	SC
10/16/93	MGD	MGD	MGD	MGD	SC	4/30/94	MGD	MGD	MGD	MGD	SC
10/23/93	MGD	MGD	MGD	MGD	SC	5/7/94	MGD	MGD	MGD	MGD	SC
10/30/93	MGD	MGD	MGD	MGD	SC	5/14/94	MGD	MGD	MGD	MGD	SC
11/6/93	MGD	MGD	MGD	MGD	SC	5/21/94	MGD	MGD	MGD	MGD	SC
11/13/93	MGD	MGD	MGD	MGD	SC	5/28/94	MGD	MGD	MGD	MGD	SC
11/20/93	MGD	MGD	MGD	MGD	SC	6/4/94	MGD	MGD	MGD	MGD	SC
11/27/93	MGD	MGD	MGD	MGD	SC	6/11/94	MGD	MGD	MGD	MGD	SC
12/4/93	MGD	MGD	MGD	MGD	SC	6/18/94	MGD	MGD	MGD	MGD	SC
12/11/93	MGD	MGD	MGD	MGD	SC	6/25/94	MGD	MGD	MGD	MGD	SC
12/18/93	MGD	MGD	MGD	MGD	SC	7/2/94	MGD	MGD	MGD	MGD	SC
12/24/93	MGD	MGD	MGD	MGD	SC	7/9/94	MGD	MGD	MGD	MGD	SC
12/31/93	MGD	MGD	MGD	MGD	SC	7/16/94	MGD	MGD	MGD	MGD	SC
1/8/94	MGD	MGD	MGD	MGD	SC	7/23/94	MGD	MGD	MGD	MGD	SC
1/15/94	MGD	MGD	MGD	MGD	SC	7/30/94	MGD	MGD	MGD	MGD	SC
1/22/94	MGD	MGD	MGD	MGD	SC	8/6/94	MGD	MGD	MGD	MGD	SC

MONITORING WELLS CHECK

3.7

BATTERY STREET

NGD = No Gas Detected

1994

1994

Date	Well				Checked by (Inits)	Date	Well				
	1	2	3	4			1	2	3	4	
8/13/94	MGD	MGD	MGD	MGD	SC	10/5/94	MGD	1" / 1" / 1" / 1"	Some MGD	SC	
8/20/94	MGD	MGD	MGD	MGD	SC	10/6/94	MGD	1" / 1" / 1" / 1"	Some MGD	SC	
8/27/94	MGD	MGD	MGD	MGD	SC	10/7/94	MGD	1" / 1" / 1" / 1"	Some MGD	SC	
9/3/94	MGD	MGD	MGD	MGD	SC	5:30	MGD	1 1/2" / 1" / 1" / 1"	Some MGD	SC	
9/10/94	MGD	MGD	MGD	MGD	SC	10/8/94 9:00	MGD	1 1/4" / 1" / 1" / 1"	Some MGD	SC	
9/20/94	MGD	Smell	Smell	MGD	SC	1:00	MGD	1 1/2" / 1" / 1" / 1"	Some MGD	SC	
9/21/94	MGD	Smell	Smell	MGD	SC	1:00	MGD	1 1/2" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
9/21/94	MGD	Smell	Smell	MGD	SC	5:30	MGD	1 1/2" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
9/22/94	MGD	Smell	Smell	MGD	SC	8:30	MGD	1 1/2" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
9/22/94	MGD	Smell	Smell	MGD	SC	1:00	MGD	1 1/2" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
9/23/94	MGD	Smell	Smell	MGD	SC	5:30	MGD	1 1/2" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
9/23/94	MGD	Smell	Smell	MGD	SC	10/12 8:15	Film	1 1/4" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	NGD	SB
9/24/94	MGD	Smell	Smell	MGD	SC	1:00	Film	1 1/4" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
9/24/94	MGD	Smell	Smell	MGD	SC	5:00	MGD	1 1/4" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
9/26/94	MGD	Smell	Smell	MGD	SC	<del>10/13</del> 8:15	<del>Film</del>	<del>1 1/4" / 1" / 1" / 1"</del>	<del>1 1/2" / 1" / 1" / 1"</del>		
9/26/94	MGD	Smell	Smell	MGD	SC	8:15	Film	1 1/4" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	NGD	SB
9/27/94	MGD	Smell	Smell	MGD	SC	6:00	MGD	1 1/2" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
9/27/94	MGD	Smell	Smell	MGD	SC	10/15 7:30	MGD	1 1/2" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
9/28/94	MGD	Smell	Smell	MGD	SC	1:00	MGD	1 1/2" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
9/28/94	MGD	Smell	Smell	MGD	SC	10/17 8:15	Film	1 1/4" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	NGD	SB
9/29/94	MGD	Smell	Smell	MGD	SC	1:00	MGD	1 1/2" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
9/29/94	MGD	Smell	Smell	MGD	SC	5:00	MGD	1 1/2" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
9/30/94	MGD	Smell	Smell	MGD	SC	10/18 8:15	Film	1 1/4" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	NGD	SB
9/30/94	MGD	Smell	Smell	MGD	SC	1:00	Film	1 1/4" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
10/1/94	MGD	1 1/2" / 1" / 1" / 1"	Some	MGD	SC	5:00	Film	1 1/4" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC
10/3/94	MGD	1 1/2" / 1" / 1" / 1"	Some	MGD	SC	10/19 8:15	NGD	1 1/2" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	NGD	SB
10/4/94	MGD	1 1/2" / 1" / 1" / 1"	Some	MGD	SC	5:00	MGD	1 1/2" / 1" / 1" / 1"	1 1/2" / 1" / 1" / 1"	MGD	SC

MONITORING WELLS CHECK

8

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BATTERY STREET

NGD = No Gas Detected

1994

1994

Checked					Checked				
Date	Well 1	Well 2	Well 3	Well 4 (Inits)	Date	Well 1	Well 2	Well 3	Well 4 (Inits)
10/20	8:15	NGD	3/4/1/2	3/4/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2
<del>5:00</del>	<del>NGD</del>	<del>1/2/1/2</del>	<del>3/4/1/2</del>	<del>NGD</del>	5:00	NGD	1/2/1/2	1/2/1/2	NGD
5:00	NGD	1/2/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
10/21	8:15	NGD	3/4/1/2	3/4/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2
5:00	NGD	1/2/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
10/24	8:00	NGD	3/4/1/2	2"	10"	5:00	NGD	1/2/1/2	1/2/1/2
5:00	NGD	1/2/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
10/25	8:00	NGD	3/4/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2
5:00	NGD	1/2/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
10/26	8:00	NGD	3/4/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2
5:00	NGD	1/2/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
10/27	8:45	NGD	3/4/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2
5:00	NGD	1/2/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
10/28	12:00	NGD	3/4/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2
5:00	NGD	1/2/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
10/29	8:00	NGD	3/4/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2
1:00	NGD	1/2/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
10/31	8:15	NGD	3/4/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2
5:00	NGD	1/2/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
8:15	NGD	3/4/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
5:00	NGD	1/2/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
11/2	9:00	NGD	3/4/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2
1:00	NGD	1/2/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
5:00	NGD	1/2/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
11/3	8:00	NGD	3/4/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2
5:00	NGD	1/2/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2	NGD
11/4	8:00	NGD	3/4/1/2	1/2/1/2	NGD	5:00	NGD	1/2/1/2	1/2/1/2

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1994

B LERY STREET

Date	Well 1	Well 2	Well 3	Well 4	Checked by (Inits)	Date	Well 1	Well 2	Well 3	Well 4	(Inits)
11/23 2:00	MGD	1/16	MGD	MGD	SC	12/12 7:30	MGD	1/16	MGD	MGD	SC
11/25 7:30	MGD	3/4	MGD	MGD	SC	12/13 2:30	MGD	1/16	MGD	MGD	SC
11/28 7:00	MGD	1/2	MGD	MGD	SC	12/14 7:30	MGD	1/16	MGD	MGD	SC
11/29 7:00	MGD	1/2	MGD	MGD	SC	12/15 7:30	MGD	1/16	MGD	MGD	SC
11/30 7:00	MGD	1/2	MGD	MGD	SC	12/16 7:30	MGD	1/16	MGD	MGD	SC
<del>11/30</del>	<del>MGD</del>	<del>1/2</del>	<del>MGD</del>	<del>MGD</del>	<del>SC</del>	<del>12/17</del>	<del>MGD</del>	<del>1/16</del>	<del>MGD</del>	<del>MGD</del>	<del>SC</del>
12/1 7:00	MGD	1/16	MGD	MGD	SC	12/17 5:00	MGD	1/16	MGD	MGD	SC
12/1 7:00	MGD	3/4	MGD	MGD	SC	12/18 7:30	MGD	1/16	MGD	MGD	SC
12/2 7:30	MGD	1/16	MGD	MGD	SC	12/18 7:30	MGD	1/16	MGD	MGD	SC
12/2 7:30	MGD	3/4	MGD	MGD	SC	12/19 7:30	MGD	1/16	MGD	MGD	SC
12/3 7:30	MGD	1/16	MGD	MGD	SC	12/20 7:30	MGD	1/16	MGD	MGD	SC
12/3 7:30	MGD	1/2	MGD	MGD	SC	12/21 7:30	MGD	1/16	MGD	MGD	SC
12/3 7:30	MGD	1/2	MGD	MGD	SC	12/22 7:30	MGD	1/16	MGD	MGD	SC
12/3 7:30	MGD	1/2	MGD	MGD	SC	12/23 7:30	MGD	1/16	MGD	MGD	SC
12/3 7:30	MGD	1/2	MGD	MGD	SC	12/24 7:30	MGD	1/16	MGD	MGD	SC
12/3 7:30	MGD	1/2	MGD	MGD	SC	12/24 7:30	MGD	1/16	MGD	MGD	SC
12/3 7:30	MGD	1/2	MGD	MGD	SC	12/25 7:30	MGD	1/16	MGD	MGD	SC
12/3 7:30	MGD	1/2	MGD	MGD	SC	12/26 7:30	MGD	1/16	MGD	MGD	SC
12/3 7:30	MGD	1/2	MGD	MGD	SC	12/27 7:30	MGD	1/16	MGD	MGD	SC
12/3 7:30	MGD	1/2	MGD	MGD	SC	12/28 7:30	MGD	1/16	MGD	MGD	SC
12/3 7:30	MGD	1/2	MGD	MGD	SC	12/29 7:30	MGD	1/16	MGD	MGD	SC
12/3 7:30	MGD	1/2	MGD	MGD	SC	12/30 7:30	MGD	1/16	MGD	MGD	SC
12/3 7:30	MGD	1/2	MGD	MGD	SC	12/31 7:30	MGD	1/16	MGD	MGD	SC

12/29  
no water  
in one well  
- no gas det.  
in other well

BATTERY STREET

NGD = No Gas Detected

1995

					Checked						
Date	Well 1	Well 2	Well 3	Well 4	by (Inits)	Date	Well 1	Well 2	Well 3	Well 4	(Inits)
12/30	MGP	1/4 1/8	MGP	MGP	SC	1/10	MGP	<del>MGP</del>	<del>MGP</del>	MGP	SC
7:30	MGP	1/4 1/8	MGP	MGP	SC	1/10	MGP	1/4 1/8	MGP	MGP	SC
5:00	MGP	1/4 1/8	MGP	MGP	SC	1/14	MGP	1/4 1/8	MGP	MGP	SC
12/31	MGP	1/4 1/8	MGP	MGP	SC	2:30	MGP	1/4 1/8	MGP	MGP	SC
7:30	MGP	1/4 1/8	MGP	MGP	SC	5:00	MGP	1/4 1/8	MGP	MGP	SC
1:00	MGP	1/4 1/8	MGP	MGP	SC	1/14	MGP	1/4 1/8	MGP	MGP	SC
1/3	MGP	1/2	MGP	MGP	SC	7:30	MGP	1/4 1/8	MGP	MGP	SC
7:30	MGP	1/2	MGP	MGP	SC	5:00	MGP	1/4 1/8	MGP	MGP	SC
5:00	MGP	1/2	MGP	MGP	SC	1/20	MGP	Trace	MGP	MGP	SC
1/4	MGP	2 1/2	MGP	MGP	SC	7:30	MGP	Trace	MGP	MGP	SC
7:30	MGP	2 1/2	MGP	MGP	SC	1/21	MGP	Trace	MGP	MGP	SC
5:00	MGP	2 1/4	MGP	MGP	SC	7:30	MGP	Trace	MGP	MGP	SC
1/5	MGP	2 1/4	MGP	MGP	SC	1:00	MGP	Trace	MGP	MGP	SC
7:30	MGP	1 1/2	MGP	MGP	SC	1/23	MGP	MGP	MGP	MGP	SC
1/6	MGP	1 1/2	MGP	MGP	SC	7:30	MGP	MGP	MGP	MGP	SC
7:30	MGP	1 1/2	MGP	MGP	SC	5:00	MGP	MGP	MGP	MGP	SC
5:00	MGP	1 1/2	MGP	MGP	SC	1/24	MGP	MGP	MGP	MGP	SC
1/7	MGP	1 1/2	MGP	MGP	SC	9:00	MGP	MGP	MGP	MGP	SC
7:30	MGP	1 1/2	MGP	MGP	SC	5:00	MGP	MGP	MGP	MGP	SC
1:00	MGP	1 1/2	MGP	MGP	SC	1/25	MGP	MGP	MGP	MGP	SC
1/9	MGP	1 1/2	MGP	MGP	SC	7:30	MGP	MGP	MGP	MGP	SC
7:30	MGP	3/4 3/4	MGP	MGP	SC	5:00	MGP	MGP	MGP	MGP	SC
3:00	MGP	3/4 3/4	MGP	MGP	SC	1/26	MGP	MGP	MGP	MGP	SC
1/10	MGP	3/4 1/2	MGP	MGP	SC	7:30	MGP	MGP	MGP	MGP	SC
7:30	MGP	3/4 1/2	MGP	MGP	SC	5:00	MGP	MGP	MGP	MGP	SC
5:00	MGP	3/4 1/4	MGP	MGP	SC	1/27	MGP	MGP	MGP	MGP	SC
1/11	MGP	3/4 1/4	MGP	MGP	SC	7:30	MGP	MGP	MGP	MGP	SC
7:30	MGP	3/4 1/4	MGP	MGP	SC	5:00	MGP	MGP	MGP	MGP	SC
5:00	MGP	3/4 1/4	MGP	MGP	SC	1/28	MGP	MGP	MGP	MGP	SC
1/12	MGP	1/2 1/2	MGP	MGP	SC	7:30	MGP	MGP	MGP	MGP	SC
7:30	MGP	1/2 1/2	MGP	MGP	SC	1:00	MGP	MGP	MGP	MGP	SC
5:00	MGP	1/4 1/4	MGP	MGP	SC	1/30	MGP	Trace	MGP	MGP	SC
1/13	MGP	1/4 1/4	MGP	MGP	SC	7:30	MGP	Trace	MGP	MGP	SC
7:30	MGP	1/4 1/4	MGP	MGP	SC	5:00	MGP	MGP	MGP	MGP	SC
1/13	MGP	1/4 1/4	MGP	MGP	SC	1/31	MGP	MGP	MGP	MGP	SC
5:00	MGP	1/4 1/4	MGP	MGP	SC	7:30	MGP	MGP	MGP	MGP	SC
1/14	MGP	1/4 1/4	MGP	MGP	SC	2/1	MGP	MGP	MGP	MGP	SC
7:30	MGP	1/4 1/4	MGP	MGP	SC	7:30	MGP	MGP	MGP	MGP	SC
1:00	MGP	1/4 1/4	MGP	MGP	SC	5:00	MGP	MGP	MGP	MGP	SC
1/16	MGP	1/4 1/4	MGP	MGP	SC	2/2	MGP	MGP	MGP	MGP	SC
7:30	MGP	1/4 1/4	MGP	MGP	SC	7:30	MGP	MGP	MGP	MGP	SC
5:00	MGP	1/4 1/4	MGP	MGP	SC	5:00	MGP	MGP	MGP	MGP	SC
1/17	MGP	1/4 1/4	MGP	MGP	SC	7:30	MGP	MGP	MGP	MGP	SC
7:30	MGP	1/4 1/4	MGP	MGP	SC	5:00	MGP	MGP	MGP	MGP	SC

1995

MONITORING WELLS CHECK

BATTERY STREET

NGD = No Gas Detected

11  
1995

Date	Well				Checked by (Inits)	Date	Well				(Inits)
	1	2	3	4			1	2	3	4	
213 7:30	M6D	M6D	M6D	M6D	SC	2123 5:00	M6D	Trace	M6D	M6D	SC
4:00	M6D	M6D	M6D	M6D	SC	2124 7:30	M6D	Trace	M6D	M6D	SC
214 7:30	M6D	M6D	M6D	M6D	SC	5:00	M6D	Trace	M6D	M6D	SC
1:00	M6D	M6D	M6D	M6D	SC	2125 7:30	M6D	Trace	M6D	M6D	SC
216 7:30	M6D	M6D	M6D	M6D	SC	1:00	M6D	Trace	M6D	M6D	SC
5:00	M6D	M6D	M6D	M6D	SC	2127 7:30	M6D	1/4	M6D	M6D	SC
217 7:30	M6D	M6D	M6D	M6D	SC	5:00	M6D	1/4	M6D	M6D	SC
5:00	M6D	M6D	M6D	M6D	SC	2128 7:30	M6D	1/4	M6D	M6D	SC
218 7:30	M6D	M6D	M6D	M6D	SC	5:00	M6D	1/4	M6D	M6D	SC
5:00	M6D	M6D	M6D	M6D	SC	312 7:00	M6D	Trace	M6D	M6D	SC
219 7:30	M6D	Trace	M6D	M6D	SC	312 5:00	M6D	Trace	M6D	M6D	SC
5:00	M6D	M6D	M6D	M6D	SC	33 7:00	M6D	Trace	M6D	M6D	SC
2110 7:30	M6D	Trace	M6D	M6D	SC	5:00	M6D	Trace	M6D	M6D	SC
5:00	M6D	M6D	M6D	M6D	SC	314 7:00	M6D	1/4	M6D	M6D	SC
2111 7:30	M6D	1/4	M6D	M6D	SC	5:00	M6D	1/4	M6D	M6D	SC
1:00	M6D	1/4	M6D	M6D	SC	315 7:00	M6D	Trace	M6D	M6D	SC
2113 7:30	M6D	1/2	M6D	M6D	SC	5:00	M6D	1/4	M6D	M6D	SC
5:00	M6D	1/4	M6D	M6D	SC	316 7:00	M6D	1/4	M6D	M6D	SC
2114 7:00	M6D	1/2	M6D	M6D	SC	5:00	M6D	1/4	M6D	M6D	SC
2115 4:00	M6D	1/4	M6D	M6D	SC	317 7:00	M6D	1/4	M6D	M6D	SC
5:00	M6D	1/4	M6D	M6D	SC	5:00	M6D	1/4	M6D	M6D	SC
2120 7:30	M6D	1/4	M6D	M6D	SC	318 7:00	M6D	1/4	M6D	M6D	SC
5:00	M6D	Trace	M6D	M6D	SC	5:00	M6D	Trace	M6D	M6D	SC
2121 7:30	M6D	1/4	M6D	M6D	SC	319 7:00	M6D	Trace	M6D	M6D	SC
5:00	M6D	Trace	M6D	M6D	SC	5:00	M6D	Trace	M6D	M6D	SC
2122 7:30	M6D	Trace	M6D	M6D	SC	3110 7:00	M6D	Trace	M6D	M6D	SC
5:00	M6D	Trace	M6D	M6D	SC	5:00	M6D	Trace	M6D	M6D	SC
2123 7:30	M6D	Trace	M6D	M6D	SC						

MONITORING WELLS CHECK

12 (8)

BATTERY STREET

NGD = No Gas Detected

VMS					Checked	1995					
Date	Well 1	Well 2	Well 3	Well 4	by (Inits)	Date	Well 1	Well 2	Well 3	Well 4	(Inits)
3/11 7:00	NGP	NGP	NGP	NGP	DW	3/15 7:30	MGP	Trace	MGP	MGP	SC
5:00	NGP	NGP	NGP	MGP	DW	1:00	MGP	Trace	MGP	MGP	SC
3/12 7:00	NGP	Trace	NGP	NGP	DW	3/27 7:00	MGP	Trace	MGP	MGP	SC
5:00	NGP	Trace	NGP	NGP	DW	3:30	MGP	Trace	MGP	MGP	SC
3-13 7:00	NGP	Trace	NGP	NGP	DW	3/28 7:30	MGP	Trace	MGP	MGP	SC
5:00	MGP	Trace	MGP	MGP	SC	5:00	MGP	Trace	MGP	MGP	SC
3/14 7:30	MGP	Trace	MGP	MGP	SC	3/29 7:30	MGP	Trace	MGP	MGP	SC
5:00	MGP	Trace	MGP	MGP	SC	5:00	MGP	Trace	MGP	MGP	SC
3/15 7:00	MGP	Trace	MGP	MGP	SC	3/30 7:00	MGP	Trace	MGP	MGP	SC
5:00	MGP	Trace	MGP	MGP	SC	5:00	MGP	Trace	MGP	MGP	SC
3/16 7:30	MGP	Trace	MGP	MGP	SC	3/31 7:30	MGP	1/8	MGP	MGP	SC
5:00	MGP	Trace	MGP	MGP	SC	5:00	MGP	1/6	MGP	MGP	SC
3/17 7:30	MGP	Trace	MGP	MGP	SC	4/1 7:00	MGP	1/8	MGP	MGP	SC
5:00	MGP	Trace	MGP	MGP	SC	1:00	MGP	Trace	MGP	MGP	SC
3/18 7:30	MGP	Trace	MGP	MGP	SC	4/3 7:00	MGP	Trace	MGP	MGP	SC
1:00	MGP	Trace	MGP	MGP	SC	5:00	MGP	Trace	MGP	MGP	SC
3/20 7:30	MGP	Trace	MGP	MGP	SC	4/4 7:30	MGP	Trace	MGP	MGP	SC
5:00	MGP	Trace	MGP	MGP	SC	5:00	MGP	Trace	MGP	MGP	SC
3/21 7:30	MGP	Trace	MGP	MGP	SC	4/5 7:00	MGP	Trace	MGP	MGP	SC
5:00	MGP	Trace	MGP	MGP	SC	5:00	MGP	Trace	MGP	MGP	SC
3/22 7:30	MGP	Trace	MGP	MGP	SC	4/6 7:00	MGP	1/8	MGP	MGP	SC
5:00	MGP	Trace	MGP	MGP	SC	5:00	MGP	1/8	MGP	MGP	SC
3/23 7:30	MGP	Trace	MGP	MGP	SC	4/7 7:00	MGP	1/6	MGP	MGP	SC
5:00	MGP	Trace	MGP	MGP	SC	5:00	MGP	Trace	MGP	MGP	SC
3/23 7:30	MGP	Trace	MGP	MGP	SC	4/8 7:00	MGP	1/8	MGP	MGP	SC
5:00	MGP	Trace	MGP	MGP	SC	1:00	MGP	1/6	MGP	MGP	SC
3/24 7:30	MGP	Trace	MGP	MGP	SC	4/10 7:00	MGP	1/8	MGP	MGP	SC
5:00	MGP	Trace	MGP	MGP	SC	5:00	MGP	1/8	MGP	MGP	SC

MONITORING WELLS CHECK

BATTERY STREET

NGD = No Gas Detected

9.13  
1995

1-95

Date	Well 1	Well 2	Well 3	Well 4	Checked by (Inits)	Date	Well 1	Well 2	Well 3	Well 4	(Inits)		
4/11	NGD	1/8	MGD	MGD	SC	4/12	MGD	1/2	MGD	MGD	SC		
5:00	MGD	1/8	MGD	MGD	SC	5:00	MGD	1 1/2	MGD	MGD	SC		
4/12	2:00	MGD	1/8	MGD	MGD	SC	4/13	2:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1/8	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC		
4/13	2:00	MGD	1/8	MGD	MGD	SC	5/1	2:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1/8	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC		
4/14	2:00	MGD	1/8	MGD	MGD	SC	5/2	2:00	MGD	1	MGD	MGD	SC
5:00	MGD	1/8	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC		
4/15	2:00	MGD	1/8	MGD	MGD	SC	5/3	2:00	MGD	1 1/4	MGD	MGD	SC
5:00	MGD	1/8	MGD	MGD	SC	5:00	MGD	1	MGD	MGD	SC		
4/17	2:00	MGD	1/4	MGD	MGD	SC	5/4	2:00	MGD	1 1/2	MGD	MGD	SC
5:00	MGD	1/4	MGD	MGD	SC	5:00	MGD	1 1/4	MGD	MGD	SC		
4/18	2:00	MGD	5/16	MGD	MGD	SC	5/5	2:00	MGD	1 1/4	MGD	MGD	SC
5:00	MGD	1/4	MGD	MGD	SC	5:00	MGD	1 1/4	MGD	MGD	SC		
4/19	2:00	MGD	1/2	MGD	MGD	SC	5/6	2:00	MGD	1 3/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1	MGD	MGD	SC		
4/20	2:00	MGD	1 1/4	MGD	MGD	SC	5/8	2:00	MGD	1 3/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1 1/2	MGD	MGD	SC		
4/21	2:00	MGD	3/4	MGD	MGD	SC	5/9	2:00	MGD	1 1/8	MGD	MGD	SC
5:00	MGD	1	MGD	MGD	SC	5:00	MGD	1	MGD	MGD	SC		
4/22	2:00	MGD	1 1/2	MGD	MGD	SC	5/10	2:00	MGD	1 1/4	MGD	MGD	SC
1:00	MGD	1 1/2	MGD	MGD	SC	5:00	MGD	1	MGD	MGD	SC		
4/24	2:00	MGD	1 1/2	MGD	MGD	SC	5/11	2:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1 1/2	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC		
4/25	2:00	MGD	1 3/4	MGD	MGD	SC	5/12	2:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC		
4/26	2:00	MGD	2 1/4	MGD	MGD	SC	5/13	2:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	2	MGD	MGD	SC	1:00	MGD	3/8	MGD	MGD	SC		

MONITORING WELLS CHECK

BATTERY STREET

NGD = No Gas Detected

10  
14  
1995

					Checked						
Date	Well 1	Well 2	Well 3	Well 4	by (Inits)	Date	Well 1	Well 2	Well 3	Well 4	(Inits)
5/15 7:00	MGD	1/2	MGD	MGD	SC	6/2 7:00	MGD	1/4	MGD	MGD	SC
5:00	MGD	1	MGD	MGD	SC	5:00	MGD	2	MGD	MGD	SC
5/16 7:00	MGD	1	MGD	MGD	SC	6/3 2:00	MGD	1/3	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	1:00	MGD	1	MGD	MGD	SC
5/17 7:00	MGD	1/4	MGD	MGD	SC	6/5 7:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1/4	MGD	MGD	SC
5/18 7:00	MGD	1/3	MGD	MGD	SC	6/6 7:00	MGD	1/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1	MGD	MGD	SC
5/19 7:00	MGD	3/4	MGD	MGD	SC	6/7 7:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	1	MGD	MGD	SC
7/20 7:00	MGD	3/4	MGD	MGD	SC	6/8 7:00	MGD	3/4	MGD	MGD	SC
1:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1/2	MGD	MGD	SC
5/22 7:00	MGD	1/3	MGD	MGD	SC	6/9 7:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1/2	MGD	MGD	SC
5/23 7:00	MGD	1/3	MGD	MGD	SC	6/12 7:00	MGD	1	MGD	MGD	SC
5:00	MGD	1/3	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
5/24 7:00	MGD	1/3	MGD	MGD	SC	6/13 7:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1/4	MGD	MGD	SC
5/25 7:00	MGD	1/2	MGD	MGD	SC	6/19 7:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1/2	MGD	MGD	SC
5/26 7:00	MGD	3/4	MGD	MGD	SC	6/18 7:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1/2	MGD	MGD	SC
5/30 7:00	MGD	1/2	MGD	MGD	SC	6/16 7:00	MGD	2/4	MGD	MGD	SC
5:00	MGD	1	MGD	MGD	SC	5:00	MGD	1/2	MGD	MGD	SC
5/31 7:00	MGD	1/2	MGD	MGD	SC	6/17 7:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	1:00	MGD	1	MGD	MGD	SC
6/1 7:00	MGD	2/4	MGD	MGD	SC	6/19 7:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	2	MGD	MGD	SC	5:00	MGD	1	MGD	MGD	SC

MONITORING WELLS CHECK

11 15  
1995

BATTERY STREET

NGD = No Gas Detected

1995

Date	Well				Checked by (Inits)	Date	Well				
	1	2	3	4			1	2	3	4	
6/20 2:00	MGD	1/4	MGD	MGD	SC	7/13 2:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
6/21 2:00	MGD	1/4	MGD	MGD	SC	7/14 2:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
6/22 2:00	MGD	1/4	MGD	MGD	SC	7/15 2:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	1:00	MGD	1/2	MGD	MGD	SC
6/23 2:00	MGD	3/4	MGD	MGD	SC	7/17 2:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	1/2	MGD	MGD	SC
6/24 2:00	MGD	3/4	MGD	MGD	SC	7/18 2:00	MGD	1/2	MGD	MGD	SC
1:00	MGD	1/2	MGD	MGD	SC	7/18 5:00	MGD	1/2	MGD	MGD	SC
6/26 2:00	MGD	10/34	MGD	MGD	SC	7/19 2:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
6/27 2:00	MGD	1/2	MGD	MGD	SC	7/19 2:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
6/28 2:00	MGD	1/2	MGD	MGD	SC	7/21 2:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
6/29 2:00	MGD	1/2	MGD	MGD	SC	7/22 2:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	1:00	MGD	1/2	MGD	MGD	SC
6/30 2:00	MGD	1/2	MGD	MGD	SC	7/23 2:00	MGD	10/34	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	10/34	MGD	MGD	SC
7/1 2:00	MGD	1/2	MGD	MGD	SC	7/25 2:00	MGD	10/34	MGD	MGD	SC
1:00	MGD	1/4	MGD	MGD	SC	5:00	MGD	10/34	MGD	MGD	SC
7/7 2:00	MGD	3/4	MGD	MGD	SC	7/26 2:00	MGD	10/34	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	10/34	MGD	MGD	SC
7/11 2:00	MGD	3/4	MGD	MGD	SC	7/27 2:00	MGD	10/34	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	10/34	MGD	MGD	SC
7/12 2:00	MGD	3/4	MGD	MGD	SC	7/28 2:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	1/4	MGD	MGD	SC

MONITORING WELLS CHECK

12 16

BATTERY STREET

NGD = No Gas Detected

1991

Date	Well				Checked	Date	Well				
	1	2	3	4	By (Inits)		1	2	3	4 (Inits)	
7/29 2:00	<del>MGD</del>	1/4	MGD	MGD	SC	8/16 2:00	MGD	1/4	MGD	MGD	SC
1:00	MGD	1/8	MGD	MGD	SC	5:00	MGD	1/4	MGD	MGD	SC
7/31 2:00	MGD	1/4	MGD	MGD	SC	7:00	MGD	3/16	MGD	MGD	SC
5:00	MGD	1/4	MGD	MGD	SC	5:00	MGD	3/16	MGD	MGD	SC
8/1 2:00	MGD	1/2	<del>MGD</del>	<del>MGD</del>	SC	8/18 2:00	MGD	1/8	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1/8	MGD	MGD	SC
8/12 2:00	MGD	3/4	1/8	MGD	SC	8/19 2:00	MGD	1/8	MGD	MGD	SC
5:00	MGD	3/4	1/8	MGD	SC	1:00	MGD	Trace	MGD	MGD	SC
8/13 2:00	MGD	1/4	1/4	MGD	SC	8/21 2:00	MGD	1/4	MGD	MGD	SC
5:00	MGD	1/4	1/8	MGD	SC	5:00	MGD	1/8	MGD	MGD	SC
8/14 2:00	MGD	3/8	1/8	MGD	SC	8/22 2:00	MGD	1/4	MGD	MGD	SC
5:00	MGD	1	1/8	MGD	SC	5:00	MGD	1/8	MGD	MGD	SC
8/17 2:00	MGD	3/4	1/2	MGD	MGD	8/23 2:00	MGD	1/4	MGD	MGD	SC
5:00	MGD	1	MGD	MGD	SC	5:00	MGD	1/8	MGD	MGD	SC
8/18 2:00	MGD	3/4	MGD	MGD	SC	8/24 2:00	MGD	1/8	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	1/4	MGD	MGD	SC
8/19 2:00	MGD	1/2	MGD	MGD	SC	8/25 2:00	MGD	1/8	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1/8	MGD	MGD	SC
8/10 2:00	MGD	1/2	MGD	MGD	SC	8/26 2:00	MGD	1/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	1:00	MGD	1/16	MGD	MGD	SC
8/11 2:00	MGD	1/2	MGD	MGD	SC	8/28 2:00	MGD	1/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1/4	MGD	MGD	SC
8/12 2:00	MGD	1/2	MGD	MGD	SC	8/29 2:00	MGD	1/4	MGD	MGD	SC
1:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1/4	MGD	MGD	SC
8/14 2:00	MGD	1/4	MGD	MGD	SC	8/30 2:00	MGD	1/4	MGD	MGD	SC
5:00	MGD	1	MGD	MGD	SC	5:00	MGD	1/4	MGD	MGD	SC
8/15 2:00	MGD	1/4	MGD	MGD	SC	8/31 2:00	MGD	1/4	MGD	MGD	SC
5:00	MGD	1/4	MGD	MGD	SC	5:00	MGD	1/4	MGD	MGD	SC

13  
17  
1995

BATTERY STREET

NGD = No Gas Detected

1995

Date	Well 1	Well 2	Well 3	Well 4	Checked by (Inits)	Date	Well 1	Well 2	Well 3	Well 4	(Inits)
9/11 7:00	MGN	1/8	MGN	MGN	SC	9/19 7:00	MGN	3/16	1/4	MGN	SC
5:00	MGN	1/8	MGN	MGN	SC	5:00	MGN	3/16	3/16	MGN	SC
9/12 7:00	MGN	1/8	MGN	MGN	SC	9/20 7:00	MGN	3/16	3/16	MGN	SC
1:00	MGN	1/16	MGN	MGN	SC	5:00	MGN	3/16	3/16	MGN	SC
9/15 7:00	MGN	1/4	MGN	MGN	SC	9/21 7:00	MGN	3/16	3/16	MGN	SC
5:00	MGN	1/8	MGN	MGN	SC	5:00	MGN	1/8	1/8	MGN	SC
9/16 7:00	MGN	1/8	MGN	MGN	SC	9/22 7:00	MGN	1/16	1/16	MGN	SC
5:00	MGN	1/8	MGN	MGN	SC	5:00	MGN	1/16	1/16	MGN	SC
9/17 7:00	MGN	1/8	MGN	MGN	SC	9/23 7:00	MGN	Trace	MGN	MGN	SC
5:00	MGN	1/8	MGN	MGN	SC	1:00	MGN	MGN	MGN	MGN	SC
9/18 7:00	MGN	1/8	1/4	MGN	SC	9/25 7:00	MGN	MGN	Trace	MGN	SC
5:00	MGN	1/8	1/4	MGN	SC	5:00	MGN	MGN	Trace	MGN	SC
9/19 7:00	MGN	1/8	1/2	MGN	SC	9/26 7:00	MGN	Trace	1/8	MGN	SC
1:00	MGN	1/16	1/4	MGN	SC	5:00	MGN	Trace	1/8	MGN	SC
9/11 7:00	MGN	1/16	3/16	MGN	SC	9/27 7:00	MGN	Trace	3/8	MGN	SC
5:00	MGN	1/16	1/2	MGN	SC	5:00	MGN	Trace	3/8	MGN	SC
9/12 7:00	MGN	1/16	1/2	MGN	SC	9/28 7:00	MGN	Trace	3/8	MGN	SC
5:00	MGN	1/16	1/2	MGN	SC	5:00	MGN	Trace	3/8	MGN	SC
9/13 7:00	MGN	1/16	1/2	MGN	SC	9/29 7:00	MGN	Trace	3/8	MGN	SC
5:00	MGN	Trace	1/2	MGN	SC	5:00	MGN	Trace	3/8	MGN	SC
9/14 7:00	MGN	Trace	1/2	MGN	SC	10/2 7:00	MGN	Trace	3/8	MGN	SC
5:00	MGN	Trace	1/2	MGN	SC	5:00	MGN	Trace	3/8	MGN	SC
9/15 7:00	MGN	Trace	1/2	MGN	SC	10/3 7:00	MGN	Trace	1/4	MGN	SC
5:00	MGN	Trace	1/2	MGN	SC	5:00	MGN	Trace	1/4	MGN	SC
9/16 7:00	MGN	Trace	1/2	MGN	SC	10/4 7:00	MGN	Trace	1/8	MGN	SC
1:00	MGN	Trace	1/4	MGN	SC	5:00	MGN	Trace	1/8	MGN	SC
9/18 7:00	MGN	1/16	1/4	MGN	SC	10/5 7:00	MGN	Trace	1/16	MGN	SC
5:00	MGN	1/16	1/4	MGN	SC	5:00	MGN	Trace	1/16	MGN	SC



Date	Well				Checked by (Inits)	Date	Well				(Inits)
	1	2	3	4			1	2	3	4	
1119 7:00	MGD	3/4	MGD	MGD	SC	11728 5:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	11129 7:00	MGD	3/4	MGD	MGD	SC
11110 7:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	11730 7:00	MGD	3/4	MGD	MGD	SC
11111 7:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	1271 7:00	MGD	3/4	MGD	MGD	SC
11113 7:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	1272 7:00	MGD	3/4	MGD	MGD	SC
11714 7:00	MGD	1/2	MGD	MGD	SC	1:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	1214 7:00	MGD	3/4	MGD	MGD	SC
11115 7:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	1215 7:00	MGD	3/4	MGD	MGD	SC
11716 7:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	1216 7:00	MGD	3/4	MGD	MGD	SC
11117 7:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1/2	MGD	MGD	SC	1217 7:00	MGD	1/2	MGD	MGD	SC
11718 2:00	MGD	1/2	MGD	MGD	SC	5:00	MGD	1/2	MGD	MGD	SC
1:00	MGD	1/4	MGD	MGD	SC	1218 9:00	MGD	1/2	MGD	MGD	SC
11720 7:00	MGD	1/4	MGD	MGD	SC	5:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	1	MGD	MGD	SC	1219 7:00	MGD	1/2	MGD	MGD	SC
11721 7:00	MGD	1	MGD	MGD	SC	1:00	MGD	1/4	MGD	MGD	SC
5:00	MGD	1	MGD	MGD	SC	1211 7:00	MGD	3/4	MGD	MGD	SC
11722 7:00	MGD	1	MGD	MGD	SC	5:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	1	MGD	MGD	SC	1212 7:00	MGD	3/4	MGD	MGD	SC
11724 7:00	MGD	1	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
11127 7:00	MGD	3/4	MGD	MGD	SC	1213 7:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	1/2	MGD	MGD	SC
11728 7:00	MGD	3/4	MGD	MGD	SC						

MONITORING WELLS CHECK

16

20

BATTERY STREET

NGD = No Gas Detected

Date	Well				Checked by (Inits)	Date	Well				
	1	2	3	4			1	2	3	4	
12/14 7:00	MGD	3/4	MGD	MGD	SC	114 7:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
12/15 7:00	MGD	3/4	MGD	MGD	SC	115 7:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
12/16 7:00	MGD	3/4	MGD	MGD	SC	116 7:00	MGD	3/4	MGD	MGD	SC
1:00	MGD	1/4	MGD	MGD	SC	1:00	MGD	1/2	MGD	MGD	SC
12/18 7:00	MGD	1/2	MGD	MGD	SC	118 7:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
12/19 7:00	MGD	3/4	MGD	MGD	SC	119 7:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
12/20 7:00	MGD	1/4	MGD	MGD	SC	110 7:00	MGD	3/4	MGD	MGD	SC
8:00	MGD	1	MGD	MGD	SC	5:00	MGD	1/2	MGD	MGD	SC
12/21 7:00	MGD	1/4	MGD	MGD	SC	111 7:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	1	MGD	MGD	SC	5:00	MGD	1/2	MGD	MGD	SC
12/22 7:00	MGD	1	MGD	MGD	SC	112 7:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	1	MGD	MGD	SC	5:00	MGD	1/2	MGD	MGD	SC
12/26 7:00	MGD	1/4	MGD	MGD	SC	113 7:00	MGD	1/2	MGD	MGD	SC
5:00	MGD	1/4	MGD	MGD	SC	1:00	MGD	1/4	MGD	MGD	SC
12/27 7:00	MGD	1/4	MGD	MGD	SC	115 7:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1/4	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
12/28 7:00	MGD	1/4	MGD	MGD	SC	116 7:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	1/4	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
12/29 7:00	MGD	3/4	MGD	MGD	SC	117 7:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
11/2 7:00	MGD	1/4	MGD	MGD	SC	114 7:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC
11/3 7:00	MGD	3/4	MGD	MGD	SC	119 7:00	MGD	3/4	MGD	MGD	SC
5:00	MGD	3/4	MGD	MGD	SC	5:00	MGD	3/4	MGD	MGD	SC

1996

17

1996

Date	Well				Checked by (Inits)	Date	Well				(Inits)
	1	2	3	4			1	2	3	4	
1/22 5:00	MGD	3/4	MGD	MGD	Spiky	2/27 7:00	MGD	1/4	MGD	MGD	Dull
1/23 1:00	MGD	3/4	MGD	MGD	Spiky	2/18 7:00	MGD	1/4	MGD	MGD	Dull
1/24 5:00	MGD	1/2	MGD	MGD	Spiky	2/19 7:00	MGD	1/2	MGD	MGD	Dull
1/25 5:00	MGD	1/2	MGD	MGD	Spiky	2/20 7:00	MGD	1/2	MGD	MGD	Dull
1/26 7:00	MGD	1/2	MGD	MGD	Spiky	2/21 7:00	MGD	1/2	MGD	MGD	Dull
1/27 5:00	MGD	1/2	MGD	MGD	Spiky	2/22 7:00	MGD	3/4	MGD	MGD	Dull
1/28 7:00	MGD	1/4	MGD	MGD	Spiky	2/23 7:00	MGD	3/4	MGD	MGD	Dull
1/29 7:00	MGD	1/2	MGD	MGD	Dull	2/24 7:00	MGD	3/4	MGD	MGD	Dull
1/30 5:00	MGD	1/2	MGD	MGD	Dull	2/25 7:00	MGD	3/4	MGD	MGD	Dull
1/31 7:00	MGD	1/2	MGD	MGD	Dull	2/26 7:00	MGD	3/4	MGD	MGD	Dull
2/1 7:00	MGD	1/2	MGD	MGD	Dull	2/27 7:00	MGD	3/4	MGD	MGD	Dull
2/2 5:00	MGD	1/4	MGD	MGD	Spiky	2/28 7:00	MGD	1/2	MGD	MGD	Dull
2/3 7:00	MGD	1/4	MGD	MGD	Spiky	2/29 7:00	MGD	3/4	MGD	MGD	Dull
2/4 5:00	MGD	1/4	MGD	MGD	Spiky	2/30 7:00	MGD	3/4	MGD	MGD	Dull
2/5 7:00	MGD	1/2	MGD	MGD	Dull	3/1 7:00	MGD	1 1/4	MGD	MGD	Dull
2/6 5:00	MGD	1/4	MGD	MGD	Spiky	3/2 7:00	MGD	1	MGD	MGD	Dull
2/7 7:00	MGD	1/4	MGD	MGD	Dull	3/3 7:00	MGD	1 1/2	MGD	MGD	Dull
2/8 5:00	MGD	1/4	MGD	MGD	Dull	3/4 7:00	MGD	1	MGD	MGD	Dull

MONITORING WELLS CHECK

BATTERY STREET

MGD = 15 Gas Detected

KAL

1996

Date	Well				Checked by (Inits)	Date	Well				(Inits)
	1	2	3	4			1	2	3	4	
2/23 7:00	MGD	1 1/2	MGD	MGD	Spaully	3/11 7:00	MGD	2	MGD	MGD	Spaully
5:00	MGD	1	MGD	MGD	Spaully	5:00	MGD	2	MGD	MGD	Spaully
2/24 7:00	MGD	1 3/4	MGD	MGD	Spaully	3/12 7:00	MGD	2	MGD	MGD	Spaully
5:00	MGD	1 1/2	MGD	MGD	Spaully	5:00	MGD	2	MGD	MGD	Spaully
2/26 7:00	MGD	1 3/4	MGD	MGD	Spaully	3/13 7:00	MGD	2	MGD	MGD	Spaully
5:00	MGD	1 1/2	MGD	MGD	Spaully	5:00	MGD	2	MGD	MGD	Spaully
2/27 7:00	MGD	1 1/2	MGD	MGD	Spaully	3/14 7:00	MGD	1 3/4	MGD	MGD	Spaully
5:00	MGD	1 1/2	MGD	MGD	Spaully	5:00	MGD	1 1/2	MGD	MGD	Spaully
2/28 7:00	MGD	1 1/2	MGD	MGD	Spaully	3/15 7:00	MGD	1 3/4	MGD	MGD	Spaully
5:00	MGD	1 3/4	MGD	MGD	Spaully	5:00	MGD	1 1/2	MGD	MGD	Spaully
2/29 7:00	MGD	2	MGD	MGD	Spaully	3/16 7:00	MGD	1 1/2	MGD	MGD	Spaully
5:00	MGD	1 3/4	MGD	MGD	Spaully	1:00	MGD	1	MGD	MGD	Spaully
3/1 7:00	MGD	2	MGD	MGD	Spaully	3/18 8:00	MGD	1 1/2	MGD	MGD	Spaully
5:00	MGD	2	MGD	MGD	Spaully	5:00	MGD	1 1/2	MGD	MGD	Spaully
3/2 7:00	MGD	2	MGD	MGD	Spaully	3/19 8:00	MGD	1 1/2	MGD	MGD	Spaully
1:00	MGD	1	MGD	MGD	Spaully	5:00	MGD	1 1/2	MGD	MGD	Spaully
3/4 7:00	MGD	3	MGD	MGD	Spaully	3/20 8:00	MGD	1 1/2	MGD	MGD	Spaully
5:00	MGD	3	MGD	MGD	Spaully	5:00	MGD	1 1/2	MGD	MGD	Spaully
3/5 7:00	MGD	3	MGD	MGD	Spaully	3/21 8:00	MGD	1 1/2	MGD	MGD	Spaully
5:00	MGD	2 3/4	MGD	MGD	Spaully	5:00	MGD	1 1/2	MGD	MGD	Spaully
3/6 7:00	MGD	2	MGD	MGD	Spaully	3/22 8:00	MGD	1 1/2	MGD	MGD	Spaully
5:00	MGD	2	MGD	MGD	Spaully	5:00	MGD	1 1/2	MGD	MGD	Spaully
3/7 7:00	MGD	2	MGD	MGD	Spaully	3/23 8:00	MGD	1 1/2	MGD	MGD	Spaully
5:00	MGD	1 3/4	MGD	MGD	Spaully	1:00	MGD	1	MGD	MGD	Spaully
3/8 7:00	MGD	1 1/2	MGD	MGD	Spaully	3/25 8:00	MGD	1 1/2	MGD	MGD	Spaully
5:00	MGD	1 1/2	MGD	MGD	Spaully	5:00	MGD	1 1/2	MGD	MGD	Spaully
3/9 7:00	MGD	1 1/2	MGD	MGD	Spaully	3/26 8:00	MGD	1 1/2	MGD	MGD	Spaully
1:00	MGD	1	MGD	MGD	Spaully	5:00	MGD	1 1/2	MGD	MGD	Spaully

BATTERY STREET

NGD = No Gas Detected



1446

Date	Well				Checked by (Inits)	Date	Well				(Inits)
	1	2	3	4			1	2	3	4	
8/27 8:00	MGR	1/4	MGR	MGR	Dunk	4/12 8:00	MGR	3/4	MGR	MGR	Dunk
5:00 9/28	MGR	1	MGR	MGR	Dunk	5:00 4/13	MGR	3/4	MGR	MGR	Dunk
5:00	MGR	1	MGR	MGR	Dunk	8:00	MGR	3/4	MGR	MGR	Dunk
5:00 9/29	MGR	1	MGR	MGR	Dunk	1:00 4/15	MGR	1/2	MGR	MGR	Dunk
8:00	MGR	1	MGR	MGR	Dunk	8:00	MGR	1/2	MGR	MGR	Dunk
5:00	MGR	1	MGR	MGR	Dunk	5:00	MGR	1/2	MGR	MGR	Dunk
9/30 8:00	MGR	1	MGR	MGR	Dunk	4/16 8:00	MGR	1/2	MGR	MGR	Dunk
1:00 4/17	MGR	1/2	MGR	MGR	Dunk	5:00	MGR	1/2	MGR	MGR	Dunk
8:00	MGR	1	MGR	MGR	Dunk	4/17 8:00	MGR	1/2	MGR	MGR	Dunk
5:00	MGR	1	MGR	MGR	Dunk	5:00	MGR	1/2	MGR	MGR	Dunk
4/18 8:00	MGR	3/4	MGR	MGR	Dunk	4/18 8:00	MGR	1/2	MGR	MGR	Dunk
5:00	MGR	3/4	MGR	MGR	Dunk	5:00	MGR	1/2	MGR	MGR	Dunk
4/19 8:00	MGR	3/4	MGR	MGR	Dunk	4/19 8:00	MGR	1/2	MGR	MGR	Dunk
5:00	MGR	3/4	MGR	MGR	Dunk	5:00	MGR	1/2	MGR	MGR	Dunk
4/14 8:00	MGR	3/4	MGR	MGR	Dunk	4/20 8:00	MGR	1/2	MGR	MGR	Dunk
5:00	MGR	3/4	MGR	MGR	Dunk	5:00	MGR	1/2	MGR	MGR	Dunk
4/15 8:00	MGR	3/4	MGR	MGR	Dunk	4/22 8:00	MGR	1	MGR	MGR	Dunk
5:00	MGR	3/4	MGR	MGR	Dunk	5:00	MGR	3/4	MGR	MGR	Dunk
4/16 8:00	MGR	3/4	MGR	MGR	Dunk	4/23 2:00	MGR	1	MGR	MGR	Dunk
1:00	MGR	1/2	MGR	MGR	Dunk	5:00	MGR	1	MGR	MGR	Dunk
4/18 8:00	MGR	1	MGR	MGR	Dunk	4/24 2:00	MGR	1	MGR	MGR	Dunk
5:00	MGR	1	MGR	MGR	Dunk	5:00	MGR	3/4	MGR	MGR	Dunk
4/19 8:00	MGR	1	MGR	MGR	Dunk	4/25 2:00	MGR	1/2	MGR	MGR	Dunk
5:00	MGR	1	MGR	MGR	Dunk	5:00	MGR	1/2	MGR	MGR	Dunk
4/10 8:00	MGR	3/4	MGR	MGR	Dunk	4/26 2:00	MGR	1/2	MGR	MGR	Dunk
5:00	MGR	3/4	MGR	MGR	Dunk	5:00	MGR	1/2	MGR	MGR	Dunk
4/11 8:00	MGR	3/4	MGR	MGR	Dunk	4/27 2:00	MGR	1/2	MGR	MGR	Dunk
5:00	MGR	3/4	MGR	MGR	Dunk	1:00	MGR	1/2	MGR	MGR	Dunk

MONITORING WELLS CHECK

24

BATTERY STREET

NGD = No Gas Detected

996	Well				Checked by (Inits)	Date	Well				(Inits)
	1	2	3	4			1	2	3	4	
4/29 7:00	MAD	3/4	MAD	MAD	Duff	5/15 7:00	MAD	1	MAD	MAD	Duff
5:00 4/30 7:00	MAD	1/2	MAD	MAD	Duff	5/16 7:00	MAD	1	MAD	MAD	Duff
5:00 5/1 7:00	MAD	1/2	MAD	MAD	Duff	5/17 7:00	MAD	1	MAD	MAD	Duff
5:00 5/2 7:00	MAD	1/2	MAD	MAD	Duff	5/18 7:00	MAD	1	MAD	MAD	Duff
5:00 5/3 7:00	MAD	1/2	MAD	MAD	Duff	5/19 7:00	MAD	3/4	MAD	MAD	Duff
5:00 5/4 7:00	MAD	1/2	MAD	MAD	Duff	5/20 7:00	MAD	1	MAD	MAD	Duff
1:00 5/6 7:00	MAD	1/2	MAD	MAD	Duff	5/21 7:00	MAD	3/4	MAD	MAD	Duff
5:00 5/7 7:00	MAD	1/2	MAD	MAD	Duff	5/22 7:00	MAD	3/4	MAD	MAD	Duff
5:00 5/8 7:00	MAD	1/2	MAD	MAD	Duff	5/23 7:00	MAD	3/4	MAD	MAD	Duff
5:00 5/9 7:00	MAD	1/2	MAD	MAD	Duff	5/24 7:00	MAD	3/4	MAD	MAD	Duff
5:00 5/10 7:00	MAD	1/2	MAD	MAD	Duff	5/25 7:00	MAD	3/4	MAD	MAD	Duff
5:00 5/11 7:00	MAD	3/4	MAD	MAD	Duff	5/26 7:00	MAD	1 1/2	MAD	MAD	Duff
5:00 5/12 7:00	MAD	3/4	MAD	MAD	Duff	5/27 7:00	MAD	1	MAD	MAD	Duff
5:00 5/13 7:00	MAD	3/4	MAD	MAD	Duff	5/28 7:00	MAD	1	MAD	MAD	Duff
1:00 5/14 7:00	MAD	1/2	MAD	MAD	Duff	5/29 7:00	MAD	1	MAD	MAD	Duff
5:00 5/15 7:00	MAD	1	MAD	MAD	Duff	5/30 7:00	MAD	1	MAD	MAD	Duff
5:00 5/16 7:00	MAD	1	MAD	MAD	Duff	5/31 7:00	MAD	3/4	MAD	MAD	Duff
5:00 5/17 7:00	MAD	1	MAD	MAD	Duff	6/1 7:00	MAD	3/4	MAD	MAD	Duff
5:00	MAD	1	MAD	MAD	Duff	1:00	MAD	1/2	MAD	MAD	Duff

1996

2

MGD = No Gas Detected

BATTERY STREET

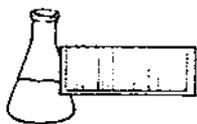
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Date	Well 1	Well 2	Well 3	Well 4	Checked by (Inits)	Date	Well 1	Well 2	Well 3	Well 4	(Inits)
6/3 7:00	MGD	1	MGD	MGD	Drew						
6/4 5:00	MGD	3/4	MGD	MGD	Drew						
6/4 7:00	MGD	3/4	MGD	MGD	Drew						
6/5 5:00	MGD	3/4	MGD	MGD	Drew						
6/5 7:00	MGD	3/4	MGD	MGD	Drew						
6/6 5:00	MGD	3/4	MGD	MGD	Drew						
6/6 7:00	MGD	3/4	MGD	MGD	Drew						
6/7 5:00	MGD	3/4	MGD	MGD	Drew						
6/7 7:00	MGD	3/4	MGD	MGD	Drew						
6/8 5:00	MGD	3/4	MGD	MGD	Drew						
6/8 7:00	MGD	3/4	MGD	MGD	Drew						
6/10 1:00	MGD	1/2	MGD	MGD	Drew						
6/10 7:00	MGD	3/4	MGD	MGD	Drew						
6/11 5:00	MGD	1/2	MGD	MGD	Drew						

RECEIVED  
JUL 30 1996

Wagner, Heindel and Noyes, Inc.

**ENDYNE, INC.****Laboratory Services**

32 James Brown Drive  
Williston, Vermont 05495  
(802) 879-4333  
FAX 879-7103

**REPORT OF LABORATORY ANALYSIS**

CLIENT: Nelson, Heindel, and Noyes, Inc.  
PROJECT NAME: Spillane's Batt. Street  
REPORT DATE: July 11, 1996  
DATE SAMPLED: July 9, 1996

PROJECT CODE: HNSP1352  
REF.#: 91,078 - 91,081

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Chain of custody indicated sample preservation with  $\text{NaN}_3$ .

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times. All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method. Blank contamination was not observed at levels affecting the analytical results.

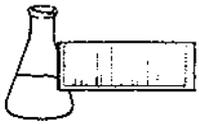
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.  
Laboratory Director

enclosures



**ENDYNE, INC.**

Laboratory Services

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Williston, Vermont 05495  
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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Nelson, Heindel, and Noyes, Inc.  
PROJECT NAME: Spillane's Batt. Street  
REPORT DATE: July 11, 1996  
DATE SAMPLED: July 9, 1996  
DATE RECEIVED: July 10, 1996  
DATE ANALYZED: July 10, 1996

PROJECT CODE: HNSP1352  
REF.#: 91,078  
STATION: MW-1  
TIME SAMPLED: 16:20  
SAMPLER: Padraic Monks

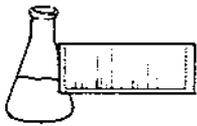
<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	TBQ <sup>1</sup>
Chlorobenzene	1	ND <sup>2</sup>
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	1.3
Toluene	1	ND
Xylenes	1	4.3
MTBE	10	33.2

Bromobenzene Surrogate Recovery: 99%

NUMBER OF UNIDENTIFIED PEAKS FOUND: > 10

NOTES:

- 1 Trace below quantitation limit
- 2 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Nelson, Heindel, and Noyes, Inc.  
PROJECT NAME: Spillane's Batt. Street  
REPORT DATE: July 11, 1996  
DATE SAMPLED: July 9, 1996  
DATE RECEIVED: July 10, 1996  
DATE ANALYZED: July 10, 1996

PROJECT CODE: HNSP1352  
REF.#: 91,079  
STATION: MW-2  
TIME SAMPLED: 16:10  
SAMPLER: Padraic Monks

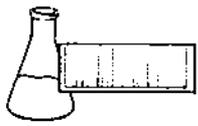
<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	500	4,050.
Chlorobenzene	500	ND <sup>2</sup>
1,2-Dichlorobenzene	500	ND
1,3-Dichlorobenzene	500	ND
1,4-Dichlorobenzene	500	ND
Ethylbenzene	500	2,220.
Toluene	500	7,800.
Xylenes	500	19,500.
MTBE	5,000	27,600.

Bromobenzene Surrogate Recovery: 99%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

NOTES:

- 1 Detection limit raised due to high levels of contaminants. Sample run at a 0.2% dilution.
- 2 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Nelson, Heindel, and Noyes, Inc.  
PROJECT NAME: Spillane's Batt. Street  
REPORT DATE: July 11, 1996  
DATE SAMPLED: July 9, 1996  
DATE RECEIVED: July 10, 1996  
DATE ANALYZED: July 11, 1996

PROJECT CODE: HNSP1352  
REF.#: 91,080  
STATION: MW-3  
TIME SAMPLED: 16:00  
SAMPLER: Padraic Monks

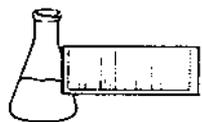
<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	500	13,500.
Chlorobenzene	500	ND <sup>2</sup>
1,2-Dichlorobenzene	500	ND
1,3-Dichlorobenzene	500	ND
1,4-Dichlorobenzene	500	ND
Ethylbenzene	500	3,630.
Toluene	500	31,000.
Xylenes	500	17,500.
MTBE	5,000	54,300.

Bromobenzene Surrogate Recovery: 100%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

NOTES:

- 1 Detection limit raised due to high levels of contaminants. Sample run at a 0.2% dilution.
- 2 None detected


**ENDYNE, INC.**
**Laboratory Services**

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LABORATORY REPORT
EPA METHOD 602--PURGEABLE AROMATICS

 CLIENT: Nelson, Heindel, and Noyes, Inc.  
 PROJECT NAME: Spillane's Batt. Street  
 REPORT DATE: July 11, 1996  
 DATE SAMPLED: July 9, 1996  
 DATE RECEIVED: July 10, 1996  
 DATE ANALYZED: July 11, 1996

 PROJECT CODE: HN5P1352  
 REF.#: 91,081  
 STATION: MW-4  
 TIME SAMPLED: 16:30  
 SAMPLER: Padraic Monks

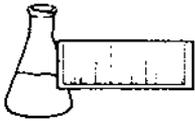
<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	ND <sup>1</sup>
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	ND
Xylenes	1	ND
MTBE	10	ND

Bromobenzene Surrogate Recovery: 104%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

## NOTES:

1 None detected



**ENDYNE, INC.**

**Laboratory Services**

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FAX 879-7103

EPA METHOD 602 LABORATORY REPORT

MATRIX SPIKE AND DUPLICATE LABORATORY CONTROL DATA

CLIENT: Nelson, Heindel, and Noyes, Inc.  
PROJECT NAME: Spillane's Batt. Street  
REPORT DATE: July 11, 1996  
DATE SAMPLED: July 9, 1996  
DATE RECEIVED: July 10, 1996  
DATE ANALYZED: July 10, 1996

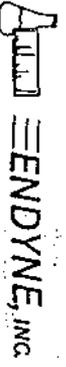
PROJECT CODE: HNSP1352  
REF.#: 91,078  
STATION: MW-1  
TIME SAMPLED: 16:20  
SAMPLER: Padraic Monks

<u>Parameter</u>	<u>Sample(ug/L)</u>	<u>Spike(ug/L)</u>	<u>Dup1(ug/L)</u>	<u>Dup2(ug/L)</u>	<u>Avg % Rec</u>
Benzene	TBQ <sup>1</sup>	10	11.0	10.9	110%
Toluene	ND <sup>2</sup>	10	10.1	10.1	101%
Ethylbenzene	1.3	10	11.0	10.9	97%
Xylenes	4.3	30	33.9	33.4	98%

NOTES:

1 Trace below quantitation limit

2 None detected



32 James Brown Drive  
Williston, Vermont 05495  
(802) 879-4333

CHAIN-OF-CUSTODY RECORD

177627

Project Name: 5 Pillars Bar Street  
 Site Location: Burlington VT  
 Endyne Project Number: HUSP1352  
 Reporting Address: NHWA  
 Billing Address: NHWA  
 Company: NHN  
 Contact Name/Phone #: P. Monks 6580820  
 Sampler Name: Padraic Monks  
 Phone #: 658 0820

Lab #	Sample Location	Matrix	C			Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
			R	A	B		No.	Type/Size				
91078	MW-1	H <sub>2</sub> O	X			7/9/16:20	2	100ml		602	50ml	
91079	MW-2					7/16:00						
91080	MW-3					7/16:30						
91081	MW-4											

Relinquished by: Signature Padraic Monks Received by: Signature John Sullivan Date/Time 7/10/16  
 Relinquished by: Signature \_\_\_\_\_ Received by: Signature \_\_\_\_\_ Date/Time \_\_\_\_\_

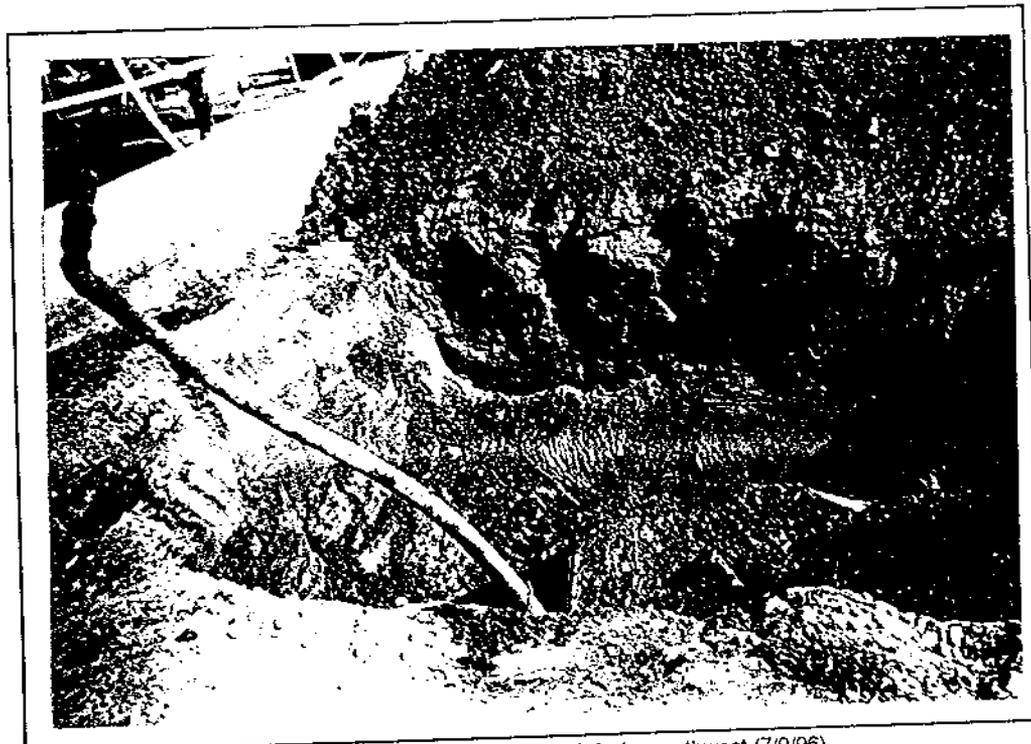
New York State Project: Yes No

Requested Analyses

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
pH	TKN	Total P	Total Diss. P	BOD <sub>5</sub>	Alkalinity	Total Solids	TSS	TDS	Turbidity	Conductivity	Metals (Specify)	Coliform (Specify)	COD	BTEX	EPA 601/602	EPA 624	EPA 625 B/N or A	EPA 418.1	EPA 608 Pesa/PCB	EPA 8240	EPA 8270 B/N or Acid	EPA 8010/8020	EPA 8080 Pesa/PCB						
30	Other (Specify):																												



3,000-gallon super unleaded UST, facing northeast (7/9/96).



Excavated area of former 3,000-gallon super unleaded UST, facing northwest (7/9/96).



Excavated area of former 4,000-gallon regular unleaded UST, facing west (7/9/96).



4,000-gallon regular unleaded UST, facing southwest (7/9/96).



4,000-gallon unleaded plus UST, facing west (7/9/96).



Excavated area of former 4,000-gallon unleaded plus UST, facing west (7/9/96).