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## CLEANUP ACTION REPORT

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**Property:**

Broadcast Apartments Property  
1420 East Madison Street  
Seattle, Washington  
VCP No. NW2954

**Prepared for:**

1420 East Madison Street LLC  
117 East Louisa Street, Suite 143  
Seattle, Washington

**Report Date:**

August 17, 2016

# Cleanup Action Report

*Prepared for:*

**1420 East Madison Street LLC**  
117 East Louisa Street, Suite 143  
Seattle, Washington 98102

**Broadcast Apartments Property**  
1420 East Madison Street  
Seattle, Washington 98122

Project No.: 1002-003

*Prepared by:*



Jonathan Loeffler, GT  
Staff Geologist

*Reviewed by:*



John Funderburk, MSPH  
Principal



Charles C. Cacek, LEG  
Associate Geologist

August 17, 2016



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## ACRONYMS AND ABBREVIATIONS

µg/L	micrograms per liter
amsl	above mean sea level
Apollo	Apollo Geophysics
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total xylenes
CAP Addendum	Cleanup Action Plan Addendum
CAR	Cleanup Action Report
COC	chemical of concern
DRPH	diesel-range petroleum hydrocarbons
Ecology	Washington State Department of Ecology
EDC	ethylene dichloride (1,2-dichloroethane)
EPA	U.S. Environmental Protection Agency
Filco	Filco Corporation
GCI	Geotech Consultants, Inc.
GPR	ground-penetrating radar
GRPH	gasoline-range petroleum hydrocarbons
GSM	GeoScience Management, Inc.
HASP	Health and Safety Plan
ICC	International Code Council
Kulchin	Kulchin Foundation Drilling Company
mg/kg	milligrams per kilogram
MTCA	Washington State Model Toxics Control Act
NWTPH	Northwest Total Petroleum Hydrocarbon
ORPH	oil-range petroleum hydrocarbons

## ACRONYMS AND ABBREVIATIONS (CONTINUED)

PCS	petroleum-contaminated soil
PID	photoionization detector
the Property	the Broadcast Apartments property located at 1420 East Madison Street in Seattle, Washington
SAP	Sampling and Analysis Plan
SoundEarth	SoundEarth Strategies, Inc.
TPH	total petroleum hydrocarbon
USGS	U. S. Geological Survey
UST	underground storage tank
VCP	Voluntary Cleanup Program
VOC	volatile organic compound
WAC	Washington Administrative Code



### EXECUTIVE SUMMARY

On behalf of 1420 East Madison Street LLC, SoundEarth Strategies, Inc. (SoundEarth) has prepared this Cleanup Action Report for the Property located at 1420 East Madison Street in Seattle, Washington (the Property). The cleanup action was performed as an independent remedial action in accordance with the Washington State Model Toxics Control Act (MTCA) Cleanup Regulation as established in Chapter 340 of Title 173 of the Washington Administrative Code. The Property is enrolled in the Washington State Department of Ecology's Voluntary Cleanup Program (No. NW1621). The cleanup action was completed in general accordance with activities described in the Cleanup Action Plan Addendum and the Sampling and Analysis Plan, both prepared by SoundEarth.

The Property consists of two irregularly shaped parcels that cover approximately 12,266 square feet (0.28 acres) of land. Immediately prior to current redevelopment activities, the Property was vacant, with an asphalt-paved parking lot. The Property is located at an approximate elevation of 367 to 380 feet above mean sea level, approximately 1.2 miles northeast of downtown Seattle.

The Property was initially developed in 1891 with a store, heated by a stove. By 1950, the Property was redeveloped with as many as five storefronts, occupied by commercial businesses, including a laundry facility, a rug cleaner, a dye works, sheet-metal shops, and several auto service/repair businesses. An automotive garage was present in the northwest portion of the Property. In 1965, all of the structures were demolished, and a Taco Time restaurant was constructed on the Property. The restaurant operated from 1965 through 2010 and was demolished in 2010.

Subsurface soil beneath the Property consists primarily of dense silty, fine to medium sand with varying amounts of gravel, locally interbedded with layers of silt and fine sand that extends to the maximum depth explored of 40.5 feet below ground surface (bgs). These soils were interpreted to be glacial till. Concentrations of petroleum hydrocarbons exceeding applicable soil cleanup levels were identified in the western and central portions of the Property.

Two water-bearing zones are present beneath the Property: a shallow, discontinuous, perched water-bearing zone at a maximum approximate depth of 18 feet bgs and an intermediate, more continuous water-bearing zone at a maximum approximate depth of 31 feet bgs. Groundwater, in general, flows to the west-southwest on the Property. Concentrations exceeding applicable groundwater cleanup levels of ethylene dichloride (EDC; also known as 1,2-dichloroethane) have been detected in groundwater in the south-central portion of the Property.

Property redevelopment commenced in December 2015 and included mass excavation of the Property from lot-line to lot-line up to 31 feet bgs. All of the on-Property soil exhibiting signs of petroleum impacts were excavated and disposed of at the CEMEX thermal treatment facility in Everett, Washington.

Four 12-inch-diameter and one 14-inch-diameter dewatering wells were installed in February 2016. Beginning in March, after continuously wet soil conditions were encountered in areas of the excavation floor, a temporary construction perimeter dewatering system was installed. The perimeter dewatering system comprised 2-inch-diameter, schedule 40 PVC angled well casings spaced at 6-foot intervals around the perimeter of the Property and connected to a header pipe leading to a pump in the northwest corner of the Property. The dewatering wells were pumped at a rate of approximately 10,000

gallons per day beginning on March 16, 2016. All water produced during dewatering was discharged into the sewer system.

The redevelopment excavation removed soil with concentrations of the chemicals of concern (COCs) exceeding MTCA Method A cleanup levels. All on-Property excavation confirmation soil samples were compliant with MTCA Method A cleanup levels for all COCs.

Groundwater samples collected from three dewatering wells installed within the intermediate water-bearing zone across the Property during and after the redevelopment excavation did not exhibit EDC or other chlorinated volatile organic compound concentrations in excess of the MTCA Method A cleanup levels after the initial sampling event in February 2016. In addition, gauging of monitoring well MW16 in April and May 2016 indicated that the well was dry. Based on the absence of the perched water-bearing zone, and recent compliant analytical results from the samples collected within the intermediate water-bearing zone, it is our opinion that further assessment of groundwater is not warranted.

The new mixed-use building was constructed with a permanent dewatering system that pumps and discharges water collected in the building's footing drains and discharges to the combined sewer system.

In summary:

- A total of 6,433 tons of soil was excavated from the Property during excavation for Property redevelopment and disposed of as petroleum-contaminated soil at the CEMEX thermal treatment facility in Everett, Washington. All confirmation samples collected from the excavation are compliant with MTCA Method A cleanup levels.
- The development excavation completely removed the on-Property perched water zone, as off-Property perched water was not observed to be seeping in through the excavation sidewalls. Groundwater samples collected from three on-Property wells did not exhibit EDC concentrations in excess of MTCA Method A cleanup levels.

This executive summary is presented solely for introductory purposes, and the information contained in this section should be used only in conjunction with the full text of this report. A complete description of the project, site conditions, investigative methods, and investigation results is contained within this report.

### 1.0 INTRODUCTION

SoundEarth Strategies, Inc. (SoundEarth) has prepared this Cleanup Action Report (CAR) on behalf of 1420 East Madison Street LLC, to present the results of the cleanup action conducted at the Property located at 1420 East Madison Street in Seattle, Washington (the Property), as shown on Figure 1. This cleanup action was conducted to meet the requirements of the Washington State Model Toxics Control Act (MTCA) Cleanup Regulations as established in Chapter 340 of Title 173 of the Washington Administrative Code (WAC 173-340). The Property is enrolled in the Washington State Department of Ecology's (Ecology's) Voluntary Cleanup Program (No. NW2954).

Subsurface investigations conducted by SoundEarth and others have confirmed releases of the following chemicals of concern (COCs) to soil beneath the Property: gasoline-range petroleum hydrocarbons (GRPH); diesel-range petroleum hydrocarbons (DRPH); oil-range petroleum hydrocarbons (ORPH); and benzene, toluene, ethylbenzene, and total xylenes (BTEX). DRPH and ethylene dichloride (EDC; also known as 1,2-dichloroethane) have been identified in groundwater beneath the Property. The source of the GRPH, DRPH, ORPH, and BTEX impacts appears to be a release of heating oil from an underground storage tank (UST) associated with the former on-Property sheet metal shop; the EDC impacts appear to be related to the former on-Property sheet metal shop or dye works and laundry/cleaners.

This report summarizes historical information regarding the former use of the Property, previous environmental reports prepared for the Property, the scope of work completed for the cleanup action, and results and conclusions of the cleanup action.

#### 1.1 PURPOSE

The purpose of the cleanup action was to remove soil contamination from the Property concurrent with excavation and construction activities related to redevelopment. The objective of this CAR is to document field activities that were conducted for the cleanup action described in the Cleanup Action Plan Addendum (CAP Addendum; SoundEarth 2015a) and the Sampling and Analysis Plan (SAP; SoundEarth 2015c).

#### 1.2 REPORT ORGANIZATION

This CAR is organized into the following sections:

- **Section 2.0, Property Background.** This section discusses the Property location and description, the land use history of the Property and surrounding parcels, Property geology and hydrology, and the previous investigations conducted at the Property. This section also provides a summary of the selected cleanup action and the remediation levels for the Property.
- **Section 3.0, Cleanup Action Implementation.** This section describes the components of the cleanup action, including site demolition, shoring installation, soil excavation, UST decommissioning and removal, temporary construction dewatering and permanent building dewatering, and soil and groundwater sampling.
- **Section 4.0, Compliance Monitoring.** This section describes the protection, performance, and confirmational monitoring that was conducted as part of cleanup action, including a discussion of soil sampling results.

- **Section 5.0, Construction and Permanent Dewatering.** This section describes the construction dewatering wells that were installed in February 2016 and the permanent dewatering system that was installed as a part of building construction.
- **Section 6.0, Groundwater Evaluation.** This section describes the results of an evaluation of groundwater conditions at the Property, including groundwater analytical results, historical groundwater elevations, flow direction, as well as temporary construction dewatering and the building's permanent dewatering system.
- **Section 7.0, Conclusions.** This section presents the conclusions based on the results of the cleanup action.
- **Section 8.0, Limitations.** This section presents SoundEarth's standard limitations associated with conducting the work reported herein and preparing this report.
- **Section 9.0, References.** This section lists references cited in this document.

## 2.0 PROPERTY BACKGROUND

This section provides a description of the Property's features and location, a summary of the land use history of the Property, Property geology and hydrology, a summary of previous investigations conducted at the Property, and a summary of the selected cleanup action and remediation levels. Additional background, including historical land use of surrounding parcels, geologic and hydrogeologic setting, and details of previous environmental investigations, is provided in the CAP Addendum (SoundEarth 2015a).

### 2.1 PROPERTY LOCATION AND DESCRIPTION

The Property is located approximately 1.2 miles northeast of downtown Seattle, as shown in Figure 1. The Property consists of two irregularly shaped tax parcels (King County Parcel Nos. 1728800075 and 1728800080) that cover approximately 12,266 square feet (0.28 acres) of land in Township 25 North/Range 4 East/Section 32. Figure 2 depicts a plan view/layout of the Property. According to the King County iMap application, the Property is located at an approximate elevation of 367 to 380 feet above mean sea level (amsl), with the highest elevations on the eastern portion of the Property. Immediately prior to current redevelopment activities, the Property was vacant, with an asphalt-paved parking lot. The Property is currently owned by 1420 East Madison Street LLC.

Development in the vicinity of the Property is a mix of residential and commercial uses. Uses of adjoining properties are summarized below and are also shown on Figure 2.

- **North.** The Property is bounded to the north by an alley, beyond which is a three-story apartment building. The First African Methodist Episcopal Church and its associated parking lot are located to the northwest of the Property.
- **East.** A mixed use apartment building is located across 15<sup>th</sup> Avenue East to the east of the Property.
- **South.** The south-adjoining property, located across East Madison Street, is occupied by McGilvra Place Park, a City of Seattle public park.
- **West.** A parking lot is located on the west-adjoining property, with a dry cleaner (Royal Cleaners) beyond.

## **2.2 LAND USE HISTORY**

The Property was initially developed in 1891 with a store, heated by a stove. By 1950, the Property was redeveloped with as many as five storefronts, occupied by commercial businesses, including a laundry facility, a rug cleaner, a dye works, sheet-metal shops, and several auto service/repair businesses. An automotive garage was present in the northwest portion of the Property. In 1965, all of the structures were demolished, and a Taco Time restaurant was constructed on the Property. The restaurant operated from 1965 through 2010 and was demolished in 2010.

## **2.3 FUTURE LAND USE**

The Property is in the process of being redeveloped with one 6-story structure. The project includes the construction of a mixed-use development that will extend lot-line to lot-line. Development plans include 70 residential units above 2,854 square feet of restaurant space and 4 live-work units. Three levels of parking accommodating 70 vehicles will be constructed below grade.

## **2.4 PROPERTY GEOLOGY AND HYDROLOGY**

This section summarizes the geologic and hydrologic conditions encountered beneath the Property.

### **2.4.1 Geology**

The Washington State Department of Natural Resources online Subsurface Geology Information System indicated that the Property is underlain by Pleistocene Vashon Stade glacial till (geologic unit Qgt), which generally consists of very dense silty sand with variable gravel content. Fill material was encountered beneath the Property. The fill material was comprised of silty fine to medium sand and gravel, with wood, brick and metal debris from ground surface to a depth of approximately 6 feet below ground surface (bgs). Underlying the fill material is native silty, fine to medium sand with varying amounts of gravel, locally interbedded with layers of silt and fine sand to the maximum depth explored of 40.5 feet bgs.

### **2.4.2 Hydrology**

Both the King County iMap application and the U. S. Geological Survey (USGS) Topographic Map of the Seattle North, Washington Quadrangle, published in 1983, depict topography in the vicinity of the Property as sloping downward to the southwest (King County iMAP 2015, USGS 1983). The topographic map depicts the closest surface water body as Elliot Bay, which is located approximately 1.5 miles to the west.

Subsurface investigations conducted by SoundEarth and others indicate that two water-bearing zones are present beneath the Property: a shallow, discontinuous, perched water-bearing zone at a maximum approximate depth of 18 feet bgs (perched interval) and an intermediate, more continuous water-bearing zone at a maximum approximate depth of 31 feet bgs (intermediate interval). Groundwater elevations for the perched groundwater table measured on February 28, 2014, ranged between 9.76 to 14.32 feet bgs in monitoring wells MW01, MW05, and MW08. The groundwater contours measured during this 2014 event indicate that the perched groundwater, in general, flows to the west-southwest with average gradients between 0.059 and 0.10 feet per foot. The migration direction for the underlying intermediate water-bearing zone has not been assessed.

## **2.5 SUMMARY OF PREVIOUS INVESTIGATIONS**

Several investigations have been conducted by others at the Property since 2003. The following subsections provide a summary of previous environmental work performed at the Property.

### **2.5.1 Geotech Consultants, Inc. Limited Phase II Environmental Site Assessment, 2003**

In 2003, Geotech Consultants, Inc. (GCI) conducted a limited Phase II Environmental Site Assessment, which included three soil borings advanced to a depth of approximately 40 feet bgs (GCI 2003). Concentrations of 180 milligrams per kilogram (mg/kg) of DRPH and 860 mg/kg of ORPH were detected in a boring at the northwest corner of the Property. Groundwater samples contained EDC in concentrations of 41 micrograms per liter ( $\mu\text{g/L}$ ) and 5.7  $\mu\text{g/L}$ , exceeding the MTCA Method A cleanup level of 5.0  $\mu\text{g/L}$ .

### **2.5.2 Noll Environmental, Inc. Phase II Environmental Site Assessment, 2005**

In October 2005, Noll Environmental, Inc. (Noll) conducted a Phase II Environmental Site Assessment at the Property. Soil samples were collected from five geoprobe soil borings at the Property at depths ranging from 0 to 16 feet bgs. No dry cleaning solvents were found in the site soil samples analyzed. Petroleum hydrocarbons in the diesel and oil range were found in one boring at 6 feet bgs, but at concentrations well below MTCA Method A cleanup levels (Noll 2005).

### **2.5.3 Noll Environmental, Inc. Groundwater Monitoring Well Installation and Sampling, 2006**

In January 2006, three groundwater monitoring wells (MW01, MW02, and MW03) were installed by Noll. EDC was detected in two monitoring wells and was detected above MTCA Method A cleanup levels in two monitoring wells (Noll 2006).

### **2.5.4 Apollo Geophysics GPR Investigation, 2006**

Apollo Geophysics (Apollo) conducted a ground-penetrating radar (GPR) survey in April 2006 to assess if USTs were present on the Property. Apollo detected two subsurface features in the southeast corner of the parking lot near East Madison Street (Apollo 2006).

### **2.5.5 GeoScience Management, Inc. Groundwater Monitoring Well Installation and Sampling, June 2006**

Three additional wells (MW04, MW05, and MW06) were installed by GeoScience Management, Inc. (GSM) for the area adjacent to the GPR detections. All six wells were sampled. Total petroleum hydrocarbons (TPH) was not detected in the wells. EDC was detected above MTCA Method A cleanup levels in monitoring wells MW01, MW05, and MW06 (GSM 2006).

### **2.5.6 G-Logics, Inc. Subsurface Assessment, January 2009**

To provide additional information regarding soil and groundwater contamination at the Property, a subsurface exploration was conducted by G-Logics, Inc. (G-Logics) in 2009. The exploration included collecting 17 soil vapor samples, drilling 11 shallow soil borings and 5 deeper soil borings, and installing 4 additional monitoring wells (MW07, MW08, MW09, and MW10). The findings were as follows (G-Logics 2009a):

- Of the 17 soil vapor samples collected, none contained detectable concentrations of EDC or any other volatile organic compounds (VOCs) analyzed by U.S. Environmental Protection Agency (EPA) Method 8260B.
- DRPH was detected at concentrations exceeding MTCA Method A levels in two borings, immediately northeast of the restaurant building at a depth of approximately 10 to 15 feet bgs.
- None of the ten groundwater samples submitted for analysis contained detectable concentrations of chlorinated solvents or other VOCs.

#### **2.5.7 G-Logics, Inc. Groundwater Monitoring Well Sampling, May 2009**

G-Logics conducted groundwater sampling of the ten monitoring wells on the Property in July 2009. No EDC was detected in any of the wells. DRPH was detected in one well at a concentration slightly exceeding the MTCA Method A cleanup level (G-Logics 2009b).

#### **2.5.8 G-Logics, Inc. Groundwater Monitoring Well Sampling, August 2009**

G-Logics conducted groundwater sampling of the ten monitoring wells on the Property in August 2009. Samples collected from four wells contained concentrations of EDC; three of these were above MTCA Method A cleanup level. DRPH was not detected in any of the sampled wells (G-Logics 2009c).

#### **2.5.9 G-Logics, Inc. Groundwater Monitoring Well Installation and Sampling, April 2010**

In February 2010, G-Logics installed three additional monitoring wells (MW11, MW12, and MW13; G-Logics 2010a) on the former restaurant location (the Taco Time building was demolished in January 2010). Soil samples did not contain detectable concentrations of VOCs. Thirteen groundwater samples were submitted for VOC analysis. Samples collected from six wells contained concentrations of EDC; three of these were above MTCA Method A cleanup level. One groundwater sample was submitted for DRPH analysis, and contained no detectable DRPH.

#### **2.5.10 G-Logics, Inc. Groundwater Monitoring Well Installation and Sampling, September 2010**

In August 2010, G-Logics installed two additional groundwater monitoring wells (MW14 and MW15; G-Logics 2010b) on the northeastern portion of the Property to further characterize the extent and possible migration pattern of EDC. The two wells were sampled and three existing wells were resampled. Samples were submitted for VOC analysis. EDC exceeded MTCA Method A cleanup levels in two of the wells (MW01 and MW08).

#### **2.5.11 Environmental Associates, Inc. Groundwater Sampling & Preliminary Hydraulic Conductivity Assessment, 2012**

Environmental Associates, Inc. (EAI) sampled groundwater from 8 of the 15 wells and performed a preliminary field evaluation of hydraulic conductivity of the groundwater-bearing zone below the Property (EAI 2012a). EDC was detected above MTCA Method A cleanup level in groundwater in three of the wells sampled.

### **2.5.12 Environmental Associates Revised Work Plan—Proposed Independent Cleanup Action, 2012**

EAI submitted a proposed Cleanup Action Plan, which included direct excavation and off-site disposal of soil during site redevelopment, as well as managing groundwater through the combination of a perimeter dewatering system and/or direct pumping of exposed and accumulated groundwater from the floor of the excavation as it progresses below the water table elevation (EAI 2012b).

### **2.5.13 Geosyntec Consultants Phase I ESA, 2013**

Geosyntec Consultants completed a Phase I Environmental Assessment of the Property in 2013 (Geosyntec 2013). This prior Phase I ESA identified the following recognized environmental concerns for the Property:

- Confirmed EDC-impacted groundwater resulting from the historical dry cleaning activities on site.
- Confirmed diesel-impacted groundwater from historical automotive repair activities on site.
- Confirmed diesel- and oil-range TPH impacted soil from historical automotive repair activities on site.
- Evidence of past land use activities suggests the potential that USTs could be present on the Site. Geophysical surveys conducted by other consultants identified two locations where USTs could possibly exist. Sufficient investigation is needed to verify the UST status at these two locations.

### **2.5.14 SoundEarth 2015 Cleanup Action Plan Addendum, February 12, 2015**

SoundEarth staff conducted a limited subsurface investigation at the Property in February and March 2014, and incorporated the results into a Cleanup Action Plan Addendum submitted to Ecology (SoundEarth 2015a). The purpose of the investigation was to evaluate whether the EDC-contaminated groundwater extended beyond the Property boundary to the south, to determine whether GPR anomalies identified during previous investigations were USTs, and to further characterize the hydrogeology beneath the Property.

The results of the investigations conducted at the Site suggest that the petroleum impacts confirmed in soil and groundwater beneath the Site may be the result of a release from former automotive repair activities that may have operated in the former automotive garage, located in the northwest portion of the Property.

- **Soil.** Soil generally consisted of dense gravelly sand with varying amounts of silt. Fill was encountered from 0 to approximately 5 feet bgs. No indications of petroleum contamination were observed during drilling activities. The soil sample collected from SESB01 at a depth of 20 feet bgs did not contain detectable concentrations of DRPH or ORPH and, therefore, remained below the applicable cleanup levels.
- **Groundwater.** The groundwater samples collected from monitoring wells MW05 and MW08 contained concentrations of EDC in excess of the cleanup level; EDC concentrations in monitoring wells MW01, MW06, MW09, MW10 through MW12,



MW14, and MW16 were below the Method A cleanup level and/or the laboratory detection limit.

- **USTs.** No USTs were encountered at the locations previously identified by the 2006 GPR survey.

EDC impacts confirmed in groundwater within the south-central portion of the Property may also be attributable to a release from the former sheet metal and/or dye works facilities. According to the Agency for Toxic Substances & Disease Registry's Toxicological Profile, EDC has been historically produced as a chemical intermediate for dyes and resins (US Department of Health and Human Services 2001). The EPA document *Locating and Estimating Air Emissions from Sources of Ethylene Dichloride* also lists EDC use in metal degreasing, paint, varnish, finish remover, soaps, and scouring compounds (1984). Considering that both sheet metal and dye works facilities historically operated on the Property, the EDC is likely attributable to one or both facilities operating from at least 1950 to 1965. Because no EDC source has been identified in soil, it is likely that the source of EDC may have been from a leaking underground sewer line.

The proposed redevelopment of the Property will require a mass excavation lot-line to lot-line to a maximum depth of 31 feet bgs, thus removing all previously identified petroleum-contaminated soil (PCS).

The cleanup action to remediate groundwater prior to the proposed excavation included conducting an in situ chemical oxidation event at the Property to reduce low-level EDC concentrations in groundwater to below cleanup level.

#### **2.5.15 Ecology Opinion on Proposed Cleanup**

In a letter dated May 18, 2015, Ecology issued the opinion that "upon completion of your proposed cleanup, no further remedial action will be necessary to clean up contamination at the Site."

#### **2.5.16 SoundEarth Phase I ESA, September 14, 2015**

SoundEarth was commissioned by 1420 East Madison Street LLC to complete a Phase I Environmental Site Assessment of the Property in 2015 (SoundEarth 2015b). The Phase I ESA identified and summarized to the extent feasible, the previously discussed recognized environmental conditions resulting from the use, manufacture, storage, and disposal of hazardous or toxic substances that could affect the future acquisition and/or development of the Property. The assessment was intended to satisfy the level of effort often referred to as "all appropriate inquiry" in the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 USC § 9601, with the objective of complying with lender requirements as part of the planned redevelopment of the Property.

## **2.6 SELECTED CLEANUP ACTION**

The selected cleanup action for soil at the Property was a mass excavation lot-line to lot-line, which was compatible with the Property redevelopment, to a maximum depth of 31 feet bgs, thus removing all previously identified PCS. The deepest portion of redevelopment excavation was completed to an approximate elevation of 341 feet amsl, with depths ranging from approximately 20 feet bgs near the southwest Property corner to approximately 31 feet bgs near the northeast Property corner.

The selected cleanup action to remediate groundwater prior to the proposed excavation included conducting an in situ chemical oxidation event at the Property to reduce low-level EDC concentrations in groundwater to below the MTCA Method A cleanup level.

## 2.7 REMEDIATION LEVELS

Remediation levels for the cleanup action are equal to the MTCA Method A cleanup levels for the COCs. The MTCA Method A cleanup levels for the COCs are listed in the table below.

Chemical of Concern	MTCA Method A Cleanup Level for Soil (mg/kg)	MTCA Method A Cleanup Level for Groundwater (µg/L)	Source
GRPH	30/100 <sup>(1)</sup>	800/1000 <sup>(2)</sup>	MTCA Cleanup Levels; WAC 173-340-740(2)(b)(i); Table 740-1
DRPH	2000	500	
ORPH	2000	500	
Benzene	0.03	5	
Toluene	7	1000	
Ethylbenzene	6	700	
Total Xylenes	9	1000	
EDC	480 <sup>(3)</sup>	5	

### NOTES:

<sup>(1)</sup>100 mg/kg when benzene is not detected and 30 mg/kg when benzene is detected.

<sup>(2)</sup>1000 µg/L when benzene is not detected and 800 µg/L when benzene is detected.

<sup>(3)</sup>MTCA Method B cleanup level; Method A cleanup level not established.

µg/L = micrograms per liter

DRPH = diesel-range petroleum hydrocarbons

EDC = ethylene dichloride

GRPH = gasoline-range petroleum hydrocarbons

mg/kg = milligrams per kilogram

MTCA = Washington State Model Toxics Control Act

ORPH = oil-range petroleum hydrocarbons

WAC = Washington Administrative Code

## 3.0 CLEANUP ACTION IMPLEMENTATION

This section provides a description of the components of the cleanup action implemented for the Property. Implementation of the cleanup action was coordinated with redevelopment activities. Construction activities were coordinated by W.G. Clark, the general contractor. Photographs of the cleanup action implementation process are provided with this report and annotated for the field activity being performed.

### 3.1 SOIL DISPOSAL PROFILE AND SOIL CLASSIFICATION

PCS was transported to the CEMEX thermal treatment facility in Everett, Washington.

Soil without aesthetic impacts (e.g., staining, sheen, or odors) was disposed of as non-impacted soil at selected disposal locations or used as non-impacted fill material. Soil exhibiting elevated contaminant

concentrations or aesthetic impacts (petroleum staining, sheen, or odors) was disposed of at the CEMEX facility. Soil exhibiting aesthetic impacts was disposed of in this manner, even if analytical testing indicated that concentrations were below MTCA Method A cleanup levels. A soil disposal profile was created for the project based on the existing historical soil laboratory analytical data prior to commencement of excavation activities. A more detailed discussion of soil classification is included in the SAP (SoundEarth 2015c).

### **3.2 SITE-SPECIFIC HEALTH AND SAFETY**

Before the commencement of construction activities, SoundEarth prepared a Site-Specific Health and Safety Plan (HASP) in accordance with Part 1910.120 of Titles 29 of the Code of Federal Regulations. SoundEarth personnel operated under the HASP and in compliance with the HASP prepared by W.G. Clark, who was responsible for the health and safety of all workers on the Property.

SoundEarth field-screened ambient air during the excavation and shoring activities to monitor petroleum hydrocarbon levels in the breathing zone of personnel, equipment operators, and at the Property boundaries. Ambient air field screening was conducted using a photoionization detector (PID). Results of ambient air monitoring are discussed in Section 4.1.

### **3.3 MONITORING WELL DECOMMISSIONING**

Fifteen monitoring wells (MW01 through MW15) were decommissioned by SoundEarth in accordance with WAC 173-160-460. All fifteen monitoring wells were located within the excavation area. One monitoring well, MW16, remains to the south of the Property in the East Madison Street sidewalk.

### **3.4 SHORING INSTALLATION**

Perimeter temporary shoring was installed to enable the removal of soil for Property redevelopment. Shoring was installed by Kulchin Foundation Drilling Company (Kulchin) from January to May 2016. Shoring was installed according to the design of the project structural engineer, CT Engineering of Seattle, Washington, and installation was overseen by Associated Earth Sciences, Inc., the project geotechnical engineer. The shoring plan consisted of conventional H-piles and wood lagging along the northern Property boundary and soil nail and shotcrete shoring with vertical elements along the west, south, and east Property boundaries. The H-piles along the northern Property boundary were installed using a solid-stem auger drill rig to advance boreholes to elevations of about 341 feet to 333 feet amsl.

### **3.5 HEATING OIL UST DISCOVERIES AND DECOMMISSIONING**

A communication plan was implemented that outlined the response action and notification procedure for discoveries of potential contamination sources or areas of contaminated soil that may be encountered during excavation activities. During this portion of the cleanup action, Santana equipment operators observed conditions that were indicative of potential contamination. W.G. Clark and SoundEarth personnel were alerted of the following issues:

- Obvious petroleum staining, sheen, or colored hues in soil or standing water.
- Presence of diesel- or oil-like vapor or odor.
- The presence of buried pipes, conduits, USTs, or unexplained metallic objects or debris.

SoundEarth personnel evaluated the above conditions and developed sampling plans to characterize and manage the material. Additional details for the discovery of USTs are provided in the sections below.

### **3.5.1 USTs**

Three USTs were encountered at the Property during excavation activities, identified as UST01, UST02, and UST03.

UST01 was encountered on January 6, 2016, in the central portion of the Property. This tank had a capacity of 300 gallons and contained approximately 3" of oily water at the time of removal. UST01 was observed to be in poor condition, with significant corrosion, pitting, and numerous holes observed in the tank walls.

UST02 was encountered on January 15, 2016, in the western portion of the Property. This tank had a capacity of 675 gallons and contained approximately 230 gallons of oily water at the time of discovery. On January 18, 2016, W.G. Clark notified SoundEarth that rainwater had filled and displaced the contents of UST02, pooling in puddles to the south and east of the tank. A thin sheen of petroleum was observed on the puddles. Marine Vacuum Services, Inc. pumped approximately 1,300 gallons of oily water from within UST02 and the surrounding puddles.

UST03 was encountered on January 19, 2016, in the northern portion of the Property. This tank had a capacity of 2,000 gallons and contained approximately 500 gallons of oily water at the time of removal. Product lines were observed emerging from the top of the west side of the tank, running toward the apartment building boiler room to the north.

For each of the three USTs, SoundEarth provided an International Code Council (ICC)-certified UST Site Assessor and conducted a site assessment in general accordance with Ecology's *Guidance for Site Checks and Site Assessments for Underground Storage Tanks* (Ecology 2003). SoundEarth contracted with Filco Corporation (Filco), a Washington State Licensed UST Decommissioner of Seattle, Washington, to provide an ICC-certified UST Decommissioner and a National Fire Protection-certified Marine Chemist. Santana, the earthworks contractor responsible for the excavation and transportation of soils, provided construction support during removal of the USTs. UST01, UST02, and UST03 were properly permitted, pumped, decommissioned, cleaned and triple-rinsed, and disposed of by Filco.

Elevated PID readings, strong hydrocarbon odors, and gray staining were observed in soil directly beneath each of the USTs and on the sidewalls of the tank pits. Discrete soil samples were collected from each of the UST excavations and analyzed for DRPH, ORPH, and chlorinated VOCs. Soil samples collected from the UST01 and UST02 tank pits contained concentrations of DRPH exceeding the cleanup level. Soil samples collected from the UST03 tank pit contained concentrations of DRPH and ORPH below applicable cleanup levels. Based on field screening and analytical results, impacted soil in these areas was classified as PCS and segregated from non-impacted soil. Widespread soil impacts encountered in the central portion of the Property appear to be primarily attributable to the release from UST01.

Soil analytical results are presented in Tables 1 and 2. The locations of the former USTs and sample locations are shown on Figure 3. Letters of Certification for UST01, UST02, and UST03 are included in Appendix A.

### **3.6 EXCAVATION OF CONTAMINATED SOIL**

Remedial excavation was conducted between December 2015 and April 2016. W.G. Clark was the general contractor for the duration of the project, and Santana was the earthworks contractor responsible for the excavation and transportation of soils. A SoundEarth geologist observed excavation activities for known and discovered contaminated soils. The excavation was conducted from lot-line to lot-line as part of the Property redevelopment. During excavation activities, soil was excavated with track-mounted hydraulic excavators and either stockpiled within the construction excavation area or directly loaded into haul trucks.

Soil excavated during the cleanup action was classified for disposal based on the presence or absence of elevated contaminant concentrations and aesthetic impacts (petroleum staining, sheen, or odor). The majority of soil excavated for redevelopment was managed as non-impacted soil and disposed of accordingly. Soil exhibiting elevated contaminant concentrations and/or aesthetic impacts was transported to the CEMEX facility in Everett, Washington, for disposal. A total of 6,433 tons of PCS was removed from the Property during redevelopment.

Prior to excavation activities, the western and central portions of the Property were identified as designated remediation areas where DRPH and ORPH had been detected at concentrations exceeding the applicable cleanup levels, based on historical Property use and the results of previous subsurface investigations. Additionally, the south-central portion of the Property was identified as a potential soil source area for EDC that has been detected in groundwater samples collected from wells in that area.

Samples collected throughout the excavation activities were identified based on their location relative to a grid defined by vertical shoring elements along the southern, eastern, and western Property boundaries (VE1 through VE56) and the soldier piles along the northern Property boundary (N1 through N21). Soil samples were labeled according to grid location and/or sidewall, and depth in feet below grade or below the elevation of the southeast corner of the Property.

Soil was excavated in approximately 5-foot lifts to correspond with the shoring installation schedule. PCS was excavated and either stockpiled and subsequently loaded into haul trucks for transport and disposal at CEMEX or directly loaded into haul trucks for transport and disposal at the CEMEX facility.

In the south-central portion of the Property, between vertical elements VE23 through VE13, soil was excavated in approximately 2-foot lifts to screen and sample for the presence of EDC. Soil in this area was field-screened for sheen, staining, odor, and elevated PID readings. Screening and sampling for the presence of EDC in soil was discontinued after no EDC-impacted soil was detected in the top 6 feet of this area.

### **3.7 SOIL TRANSPORTATION AND DISPOSAL TRACKING**

Santana tracked all PCS exported from the Property and maintained a log of all trucks departing the Property with impacted soil for disposal at the CEMEX thermal treatment facility in Everett, Washington. A soil manifest was provided for every individual load of soil. SoundEarth obtained soil disposal profiles, on behalf of 1420 East Madison Street LLC, based on the analytical data gathered during the environmental investigation.

A total of 6,816 tons of PCS was exported from the Property. A summary of exported PCS is presented in Appendix B.

#### **4.0 COMPLIANCE MONITORING**

There are three types of compliance monitoring identified for the cleanup action (WAC 173-340-410): protection, performance, and confirmational monitoring. A paraphrased definition for each is presented below (WAC 173-340-410[1]):

- **Protection Monitoring.** To evaluate whether human health and the environment are adequately protected during cleanup action.
- **Performance Monitoring.** To document that the remedial activities have resulted in compliance with the applicable cleanup standards.
- **Confirmational Monitoring.** To evaluate the long-term effectiveness of the remedial activities when cleanup standards or other performance standards have been attained.

#### **4.1 PROTECTION MONITORING**

In accordance with the HASP and during drilling, shoring, and excavation activities, SoundEarth monitored ambient air for petroleum hydrocarbons in the breathing zone of personnel and equipment operators and at the Property boundaries. Air monitoring was conducted using a PID. Results of the air monitoring indicated that petroleum hydrocarbon levels in ambient air on the Property did not exceed the applicable Occupational Safety and Health Administration permissible exposure limits or the National Institute for Occupational Safety and Health recommended exposure limits.

#### **4.2 PERFORMANCE MONITORING OF SOIL**

Performance monitoring included the collection of soil samples from the following locations: the floor of the excavation in areas of known or suspected impacted soil, the sidewalls and bottom of the UST excavation areas, and the stockpiles for waste profiling and off-site disposal. Performance monitoring and field screening of soil was conducted during the remedial excavation activities to direct advancement of the excavation. A SoundEarth geologist observed the excavation of identified impacted soil during excavation activities and performed field screening of non-impacted soil areas to confirm the lack of notable impacts. Field screening included observation of the soil for staining, sheen, and odors. In addition to physical observations, a PID was used to qualitatively measure volatile organic vapors in the soil. Soil samples were collected by a SoundEarth geologist and transferred directly to laboratory-prepared sample containers labeled with unique laboratory identification numbers. The containers were placed in an iced cooler and transported for laboratory analysis to Friedman & Bruya, Inc. of Seattle, Washington, under standard chain-of-custody protocols. All samples were analyzed for DRPH and ORPH by Northwest Total Petroleum Hydrocarbon (NWTPH) Method NWTPH-Dx. Select samples were analyzed for GRPH by Method NWTPH-Gx, BTEX by EPA Method 8021B, and chlorinated VOCs (including EDC) by EPA Method 8062C. Analytical results for performance soil samples are presented in Tables 1 and 2 and depicted on Figures 3, 4, and 5. Laboratory analytical results are included in Appendix C.

#### **4.3 CONFIRMATIONAL MONITORING OF SOIL**

Confirmational monitoring included the collection of soil samples from the final extent of the remedial excavation area. Confirmation samples were collected from the excavation floor directly beneath any

performance sample, or a sample from previous subsurface investigations, containing concentrations of contaminants above the applicable MTCA Method A cleanup levels. All confirmation samples were analyzed for DRPH and ORPH by Method NWTPH-Dx. Select confirmation samples were analyzed for GRPH by Method NWTPH-Gx and BTEX by EPA Method 8021B. Analytical results for confirmation samples are presented in Tables 1 and 2 and depicted on Figures 3, 4, and 5. Laboratory analytical results are included in Appendix C.

The excavation associated with Property redevelopment removed all soil with concentrations of the COCs exceeding MTCA Method A cleanup levels on the Property. All confirmation soil samples were compliant with MTCA Method A cleanup levels for all COCs.

## **5.0 CONSTRUCTION AND PERMANENT DEWATERING**

Construction dewatering commenced in February 2016 with the installation of four dewatering wells, designated as DW01 through DW04. The wells were installed by Kulchin Drilling. Dewatering wells DW01 through DW03 were constructed with 12-inch-diameter, schedule 40 PVC casings screened from 40 to 20 feet bgs. Dewatering well DW04 was constructed with 12-inch-diameter, schedule 40 PVC screened from 36 to 16 feet bgs. In April 2016, dewatering well DW05 was installed near the total planned depth of excavation. Dewatering well DW05 was constructed with 14-inch-diameter, corrugated PVC casing screened from 5 to 20 feet bgs. SoundEarth did not observe the installation of dewatering well DW05. The locations of these wells are shown on Figures 2 and 3. Boring logs for dewatering wells DW01 through DW04 are provided in Appendix D.

Beginning in March, after continuously wet soil conditions were encountered in areas of the excavation floor, a perimeter dewatering system was installed. The perimeter dewatering system comprised 2-inch-diameter, schedule 40 PVC angled well casings spaced at 6-foot intervals around the perimeter of the Property and connected to a header pipe leading to a pump in the northwest corner of the Property. The dewatering wells were pumped at a rate of approximately 10,000 gallons per day beginning on March 16, 2016. All water produced during dewatering was discharged into the sewer system.

A permanent dewatering system was installed as a part of building construction. The dewatering system includes drainage panels along the basement walls and sub-slab piping that direct collects water into a sump. The sump water is then pumped off-Property into the combined sewer system. A copy of the drainage as-built design is included in Appendix E.

## **6.0 GROUNDWATER EVALUATION**

Dewatering wells DW01 through DW05 were installed between February and April 2016. Groundwater in these wells was encountered at depths of approximately 23 to 31 feet bgs, which corresponds to elevations 342 to 346 feet amsl. Grab groundwater samples were collected from wells DW02, DW03, and DW05 by SoundEarth up to four times between February and May 2016. Samples were analyzed for EDC by EPA Method 8260C. During the sampling event on February 15, 2016, EDC was detected in DW02 at a concentration of 5.7 µg/L, which exceeds the MTCA Method A cleanup level of 5 µg/L. EDC was detected in DW03 at a concentration of 2.3 µg/L during the same sampling event, which is below the cleanup level. During all subsequent sampling events, EDC was not detected in samples from any of the wells that were sampled.

Fifteen monitoring wells within the footprint of the excavation (MW01 through MW15) were decommissioned in August 2015. The remaining monitoring well, MW16, is located in the East Madison Street sidewalk south of the Property. MW16, which is screened from 15 to 25 feet bgs, was observed to be dry in April and May 2016. The absence of groundwater in MW16 and no observed seepage from the excavation sidewalls indicates that the shallow perched water-bearing zone has been removed from the Property.

Groundwater analytical results are presented in Table 3. Laboratory analytical reports for groundwater samples are provided in Appendix F.

## 7.0 CONCLUSIONS

Based on the results of the compliance monitoring described above, the cleanup action has been accomplished. Soil containing concentrations of COCs above the remediation levels was removed from the Property, and the remaining soil is compliant with MTCA Method A cleanup levels. This conclusion is based on the concentrations of COCs in confirmation soil samples collected directly beneath any performance sample, or a sample from previous subsurface investigations, containing concentrations of contaminants above the applicable MTCA Method A cleanup levels.

Construction dewatering took place at the Property beginning in March 2016. Monitoring well observations indicate that the shallow perched water-bearing zone has been removed from the Property. Water from the dewatering wells was sampled and analyzed for EDC multiple times throughout the excavation and dewatering activities. All sampling events following the initial event in February 2016 indicated that EDC was not present in groundwater at the Property.

The cleanup action at the Property was performed in accordance with the Ecology-approved CAP Addendum (SoundEarth 2015a). The following conclusions are supported by the data generated during the implementation of the cleanup action at the Property:

- The nature and extent of releases of COCs encountered within the Property boundaries have been fully characterized.
- 3 discovered heating oil USTs were properly decommissioned and removed from the Property, in general accordance with Ecology's *Guidance for Site Checks and Site Assessments for Underground Storage Tanks* (Ecology 2003).
- COCs in soil have been removed and remediation levels have been met throughout the Property.
- All excavated soils were transported to an appropriate treatment, storage, and disposal facility.
- Shallow perched groundwater has been removed from the Property, and COCs are below applicable remediation levels in groundwater sampled from intermediate water-bearing zone wells across the Property.
- Deeper groundwater from the intermediate water-bearing zone below the source location is compliant with MTCA Method A cleanup levels.
- No further action is necessary for the COCs, and the Property no longer presents a threat to human health or the environment.



Based upon these conclusions, SoundEarth requests an opinion from Ecology as to the sufficiency to obtain a No Further Action determination for the cleanup action.

## 8.0 LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report are derived, in part, from data gathered by others, and from conditions evaluated when services were performed, and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We do not warrant and are not responsible for the accuracy or validity of work performed by others, nor from the impacts of changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the use of segregated portions of this report.

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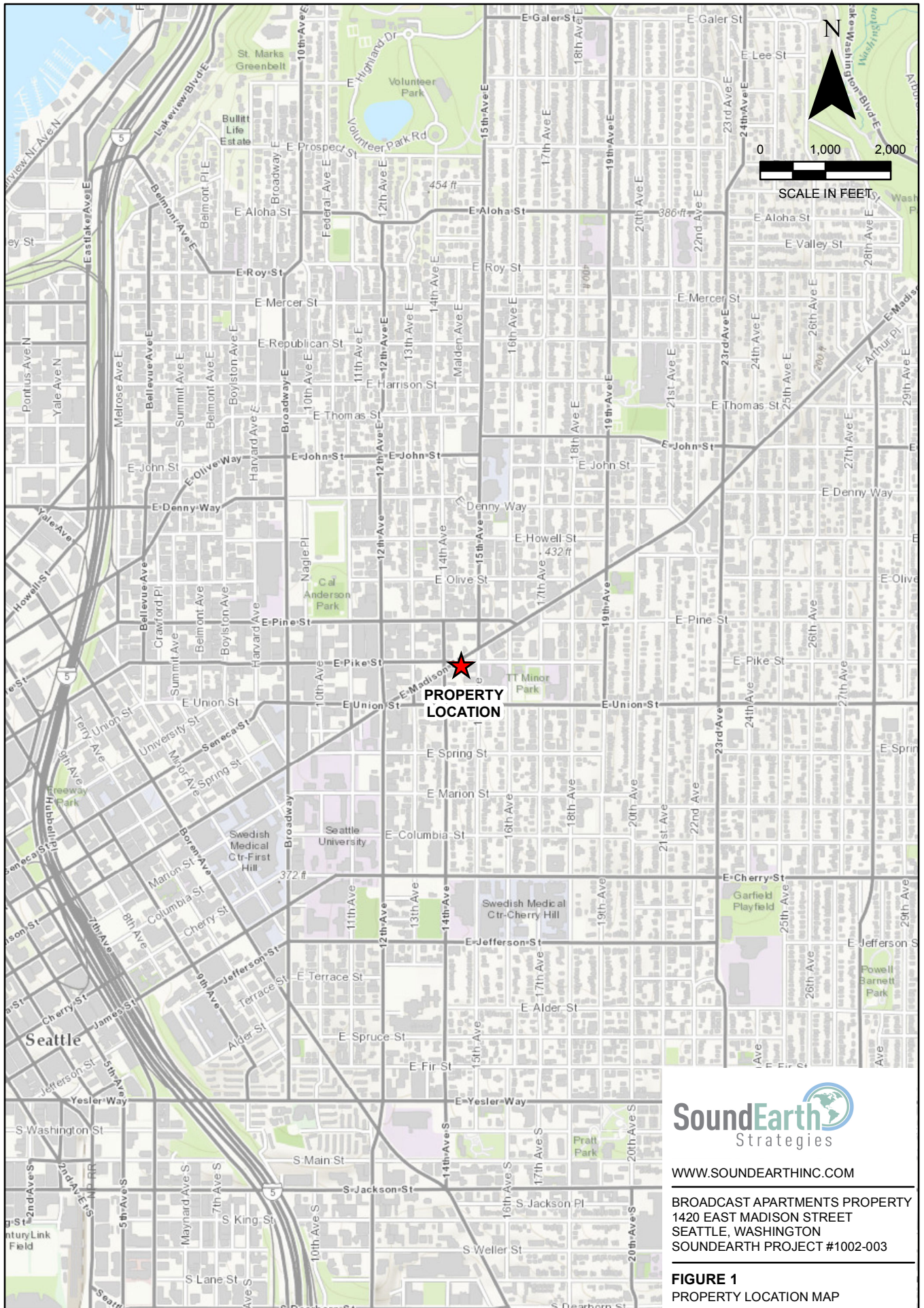
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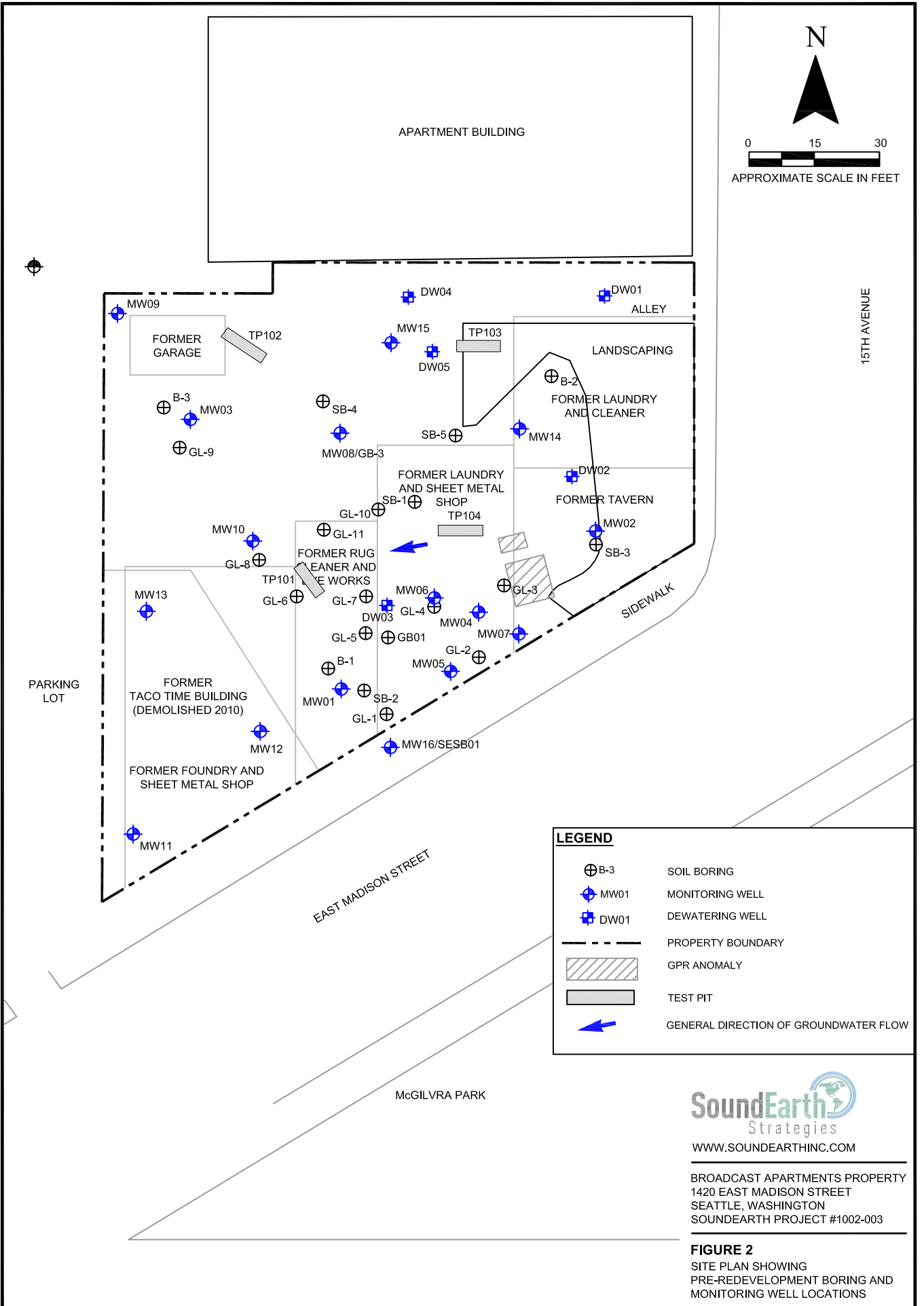
## FIGURES



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BROADCAST APARTMENTS PROPERTY  
1420 EAST MADISON STREET  
SEATTLE, WASHINGTON  
SOUNDEARTH PROJECT #1002-003

**FIGURE 1**  
PROPERTY LOCATION MAP



N

0 15 30  
APPROXIMATE SCALE IN FEET

15TH AVENUE

PARKING LOT

EAST MADISON STREET

McGILVRA PARK

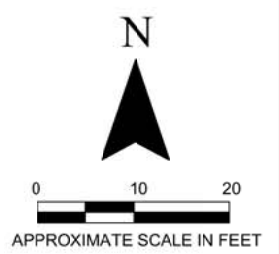
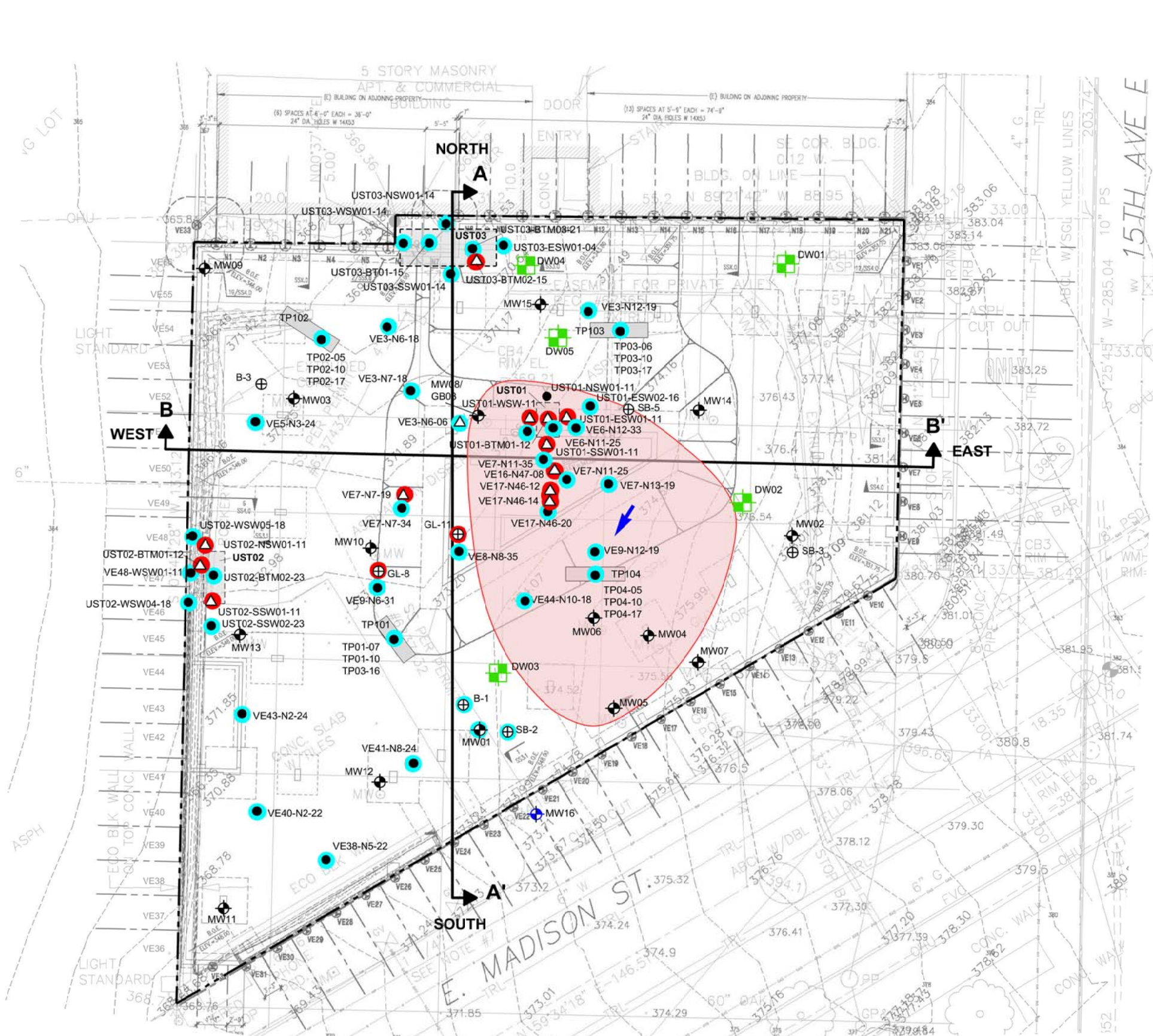
**LEGEND**

- ⊕ B-3 SOIL BORING
- ⊕ MW01 MONITORING WELL
- ⊕ DW01 DEWATERING WELL
- - - - - PROPERTY BOUNDARY
- ▨ GPR ANOMALY
- ▭ TEST PIT
- ← GENERAL DIRECTION OF GROUNDWATER FLOW

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**FIGURE 2**  
SITE PLAN SHOWING  
PRE-REDEVELOPMENT BORING AND  
MONITORING WELL LOCATIONS

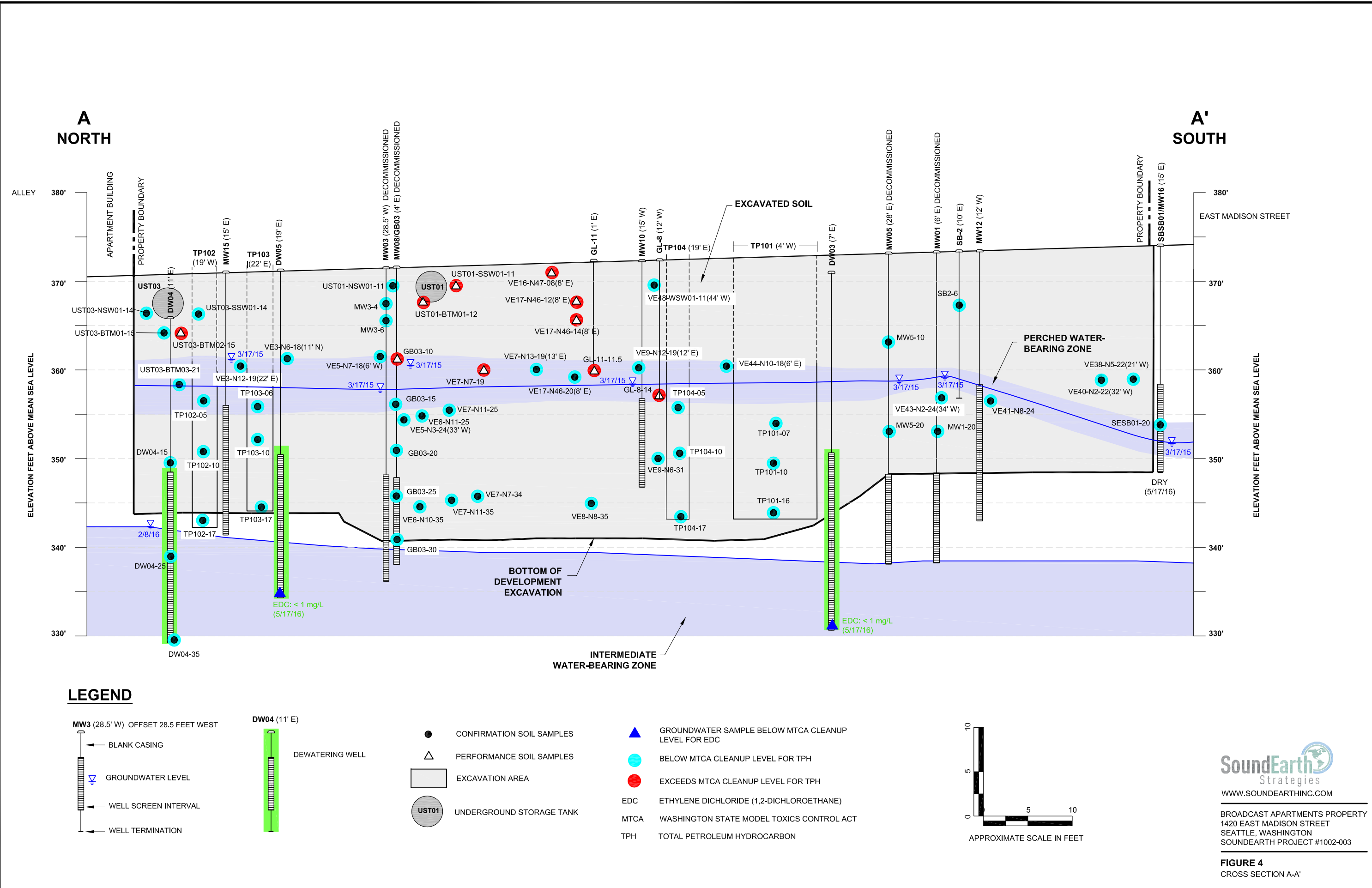


LEGEND	
	PROPERTY BOUNDARY
	GROUNDWATER MONITORING WELL
	DEWATERING WELLS
	DECOMMISSIONED GROUNDWATER MONITORING WELL
	SOIL BORING
	GROUNDWATER FLOW DIRECTION
	CROSS SECTION LOCATION
	UNDERGROUND STORAGE TANK
	CONFIRMATION SOIL SAMPLE
	PERFORMANCE SOIL SAMPLE-AREA HAS BEEN OVEREXCAVATED
	CLASS 3/4 SOIL DISPOSAL CLASS
	PCS PETROLEUM-CONTAMINATED SOIL
	WASHINGTON STATE MODEL TOXICS CONTROL ACT
	ETHYLENE DICHLORIDE
	TOTAL PETROLEUM HYDROCARBON
	BELOW MTCA CLEANUP LEVEL FOR TPH
	EXCEEDED MTCA CLEANUP LEVEL FOR TPH
	FORMER EDC GROUNDWATER PLUME

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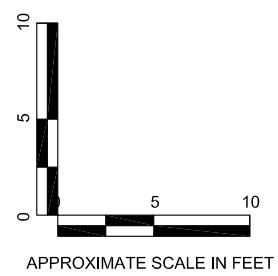
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**FIGURE 3**  
PROPERTY DEVELOPMENT PLAN  
SOIL SAMPLING LOCATIONS



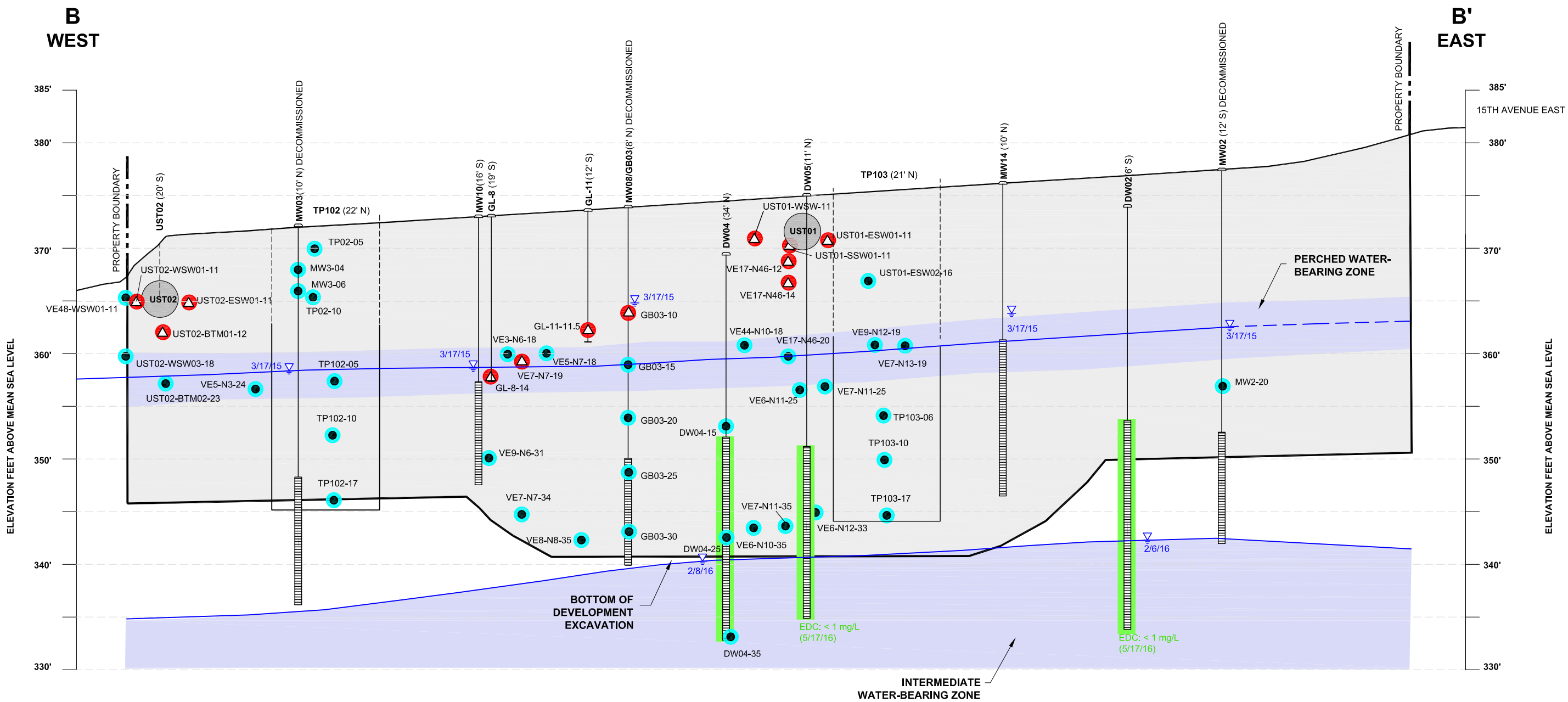
**LEGEND**

- |   |  |  |  |
|---|--|--|--|
| <p><b>MW3 (28.5' W) OFFSET 28.5 FEET WEST</b></p> <ul style="list-style-type: none"> <li>← BLANK CASING</li> <li>▽ GROUNDWATER LEVEL</li> <li>← WELL SCREEN INTERVAL</li> <li>← WELL TERMINATION</li> </ul> | <p><b>DW04 (11' E)</b></p> <ul style="list-style-type: none"> <li>DEWATERING WELL</li> </ul> | <ul style="list-style-type: none"> <li>● CONFIRMATION SOIL SAMPLES</li> <li>△ PERFORMANCE SOIL SAMPLES</li> <li>EXCAVATION AREA</li> <li>○ UST01 UNDERGROUND STORAGE TANK</li> </ul> | <ul style="list-style-type: none"> <li>▲ GROUNDWATER SAMPLE BELOW MTCA CLEANUP LEVEL FOR EDC</li> <li>● BELOW MTCA CLEANUP LEVEL FOR TPH</li> <li>● EXCEEDS MTCA CLEANUP LEVEL FOR TPH</li> <li>EDC ETHYLENE DICHLORIDE (1,2-DICHLOROETHANE)</li> <li>MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT</li> <li>TPH TOTAL PETROLEUM HYDROCARBON</li> </ul> |
|---|--|--|--|



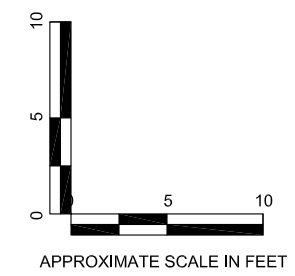
BROADCAST APARTMENTS PROPERTY  
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**FIGURE 4**  
CROSS SECTION A-A'



**LEGEND**

- |  |   |   |  |
|--|---|---|--|
| <p><b>MW2 (12' S)</b>    OFFSET 12 FEET SOUTH</p> <p>← BLANK CASING</p> <p>← GROUNDWATER LEVEL</p> <p>← WELL SCREEN INTERVAL</p> <p>← WELL TERMINATION</p> | <p><b>DW04 (34' N)</b></p> <p>DEWATERING WELL</p> | <p>● CONFIRMATION SOIL SAMPLES</p> <p>△ PERFORMANCE SOIL SAMPLES</p> <p>EXCAVATION AREA</p> <p>○ UST01 UNDERGROUND STORAGE TANK</p> | <p>▲ GROUNDWATER SAMPLE BELOW MTCA CLEANUP LEVEL FOR EDC</p> <p>● BELOW MTCA CLEANUP LEVEL FOR TPH</p> <p>● EXCEEDS MTCA CLEANUP LEVEL FOR TPH</p> <p>EDC    ETHYLENE DICHLORIDE (1,2-DICHLOROETHANE)</p> <p>MTCA    WASHINGTON STATE MODEL TOXICS CONTROL ACT</p> <p>TPH    TOTAL PETROLEUM HYDROCARBON</p> |
|--|---|---|--|



BROADCAST APARTMENTS PROPERTY  
1420 EAST MADISON STREET  
SEATTLE, WASHINGTON  
SOUNDEARTH PROJECT #1002-003

**FIGURE 5**  
CROSS SECTION B-B'



## **TABLES**



**Table 1**  
**Summary of Soil Analytical Results**  
**Total Petroleum Hydrocarbons**  
**Broadcast Apartments Property**  
**1420 East Madison Street**  
**Seattle, Washington**

Sample ID	Lab ID	Sample Location	Sample Date	Sample Type	Sample Matrix	Sample Depth bgs <sup>(1)</sup> (feet)	Performance/Confirmational Sample	Analytical Results (mg/kg)						
								GRPH <sup>(2)</sup>	DRPH <sup>(3)</sup>	ORPH <sup>(3)</sup>	Benzene <sup>(4)</sup>	Toluene <sup>(4)</sup>	Ethylbenzene <sup>(4)</sup>	Total Xylenes <sup>(4)</sup>
<b>Performance Soil Samples - Excavated</b>														
VE18-N63-06	601030-01	VE18-N63	01/05/16	Disposal	Soil	6	Performance	150	1,300	<250	--	--	--	--
VE22-N44-09	601071-01	VE22-N44	01/07/16	Disposal	Soil	9	Performance	--	320	<250	--	--	--	--
VE16-N47-08	601073-01	VE16-N47	01/08/16	Disposal	soil	8	Performance	--	10,000	6,200	--	--	--	--
UST01-BTM01-12	601072-01	UST01	01/08/16	Bottom	Soil	12	Performance	--	4,500	<250	--	--	--	--
UST01-SSW01-11	601072-02	UST01	01/08/16	South Sidewall	Soil	11	Performance	--	5,100	<250	--	--	--	--
UST01-WSW01-11	601072-03	UST01	01/08/16	West Sidewall	Soil	11	Performance	--	8,000	<250	--	--	--	--
UST01-ESW01-11	601072-04	UST01	01/08/16	East Sidewall	Soil	11	Performance	--	4,200	<250	--	--	--	--
VE17-N46-12	601101-03	VE17-N46	01/11/16	Disposal	Soil	12	Performance	--	5,700	<250	--	--	--	--
VE17-N46-14	601101-04	VE17-N46	01/11/16	Disposal	Soil	14	Performance	--	5,300	<250	--	--	--	--
VE17-N46-20	601101-07	VE17-N46	01/11/16	Disposal	Soil	20	Performance	--	180	<250	--	--	--	--
UST02-BTM01-12	601207-01	UST02	01/19/16	Bottom	Soil	12	Performance	--	3,900	<250	--	--	--	--
UST02-WSW01-11	601207-02	UST02	01/19/16	West Sidewall	Soil	11	Performance	--	11,000	<250	--	--	--	--
UST02-ESW01-11	601207-03	UST02	01/19/16	East Sidewall	Soil	11	Performance	--	4,500	<250	--	--	--	--
UST02-SSW01-11	601207-04	UST02	01/19/16	South Sidewall	Soil	11	Performance	--	18,000	350*	--	--	--	--
UST03-BTM02-15	601264-02	UST03	01/20/16	Bottom	Soil	15	Performance	--	5,900	330	--	--	--	--
VE7-N7-19	601186-01	VE7-N7	02/16/16	Surface grab	Soil	19	Performance	--	4,100	<250	--	--	--	--
VE3-N3-11	602328-01	VE3-N3	02/19/16	Surface grab	Soil	11	Performance	--	<50	<250	--	--	--	--
VE3-N3-16	603027-01	VE3-N3	03/01/16	Surface grab	Soil	16	Performance	--	<50	<250	--	--	--	--
VE4-N5-17	603027-02	VE4-N5	03/01/16	Surface grab	Soil	17	Performance	--	<50	<250	--	--	--	--
SP01	603175-01	SP01	03/09/16	Stockpile	Soil	--	Performance	--	<50	<250	--	--	--	--
<b>Confirmation Soil Samples</b>														
DW04-15	602114-01	DW04	02/08/16	Soil Cuttings	Soil	15	Confirmation	--	<50	<250	--	--	--	--
DW04-25	602114-02	DW04	02/08/16	Soil Cuttings	Soil	25	Confirmation	--	<50	<250	--	--	--	--
DW04-35	602114-03	DW04	02/08/16	Soil Cuttings	Soil	35	Confirmation	--	<50	<250	--	--	--	--
VE48-WSW01-11	602204-01	VE48-WSW01	02/11/16	West Sidewall	Soil	11	Confirmation	--	<50	<250	--	--	--	--
VE3-N6-18	602327-01	VE3-N6	02/19/16	Surface grab	Soil	18	Confirmation	--	<50	<250	--	--	--	--
VE3-N12-19	602327-02	VE3-N12	02/19/16	Surface grab	Soil	19	Confirmation	--	<50	<250	--	--	--	--
VE7-N13-19	602327-03	VE7-N13	02/19/16	Surface grab	Soil	19	Confirmation	--	<50	<250	--	--	--	--
VE9-N12-19	602327-04	VE9-N12	02/19/16	Surface grab	Soil	19	Confirmation	--	<50	<250	--	--	--	--
VE44-N10-18	602327-05	VE44-N10	02/19/16	Surface grab	Soil	18	Confirmation	--	<50	<250	--	--	--	--
VE5-N7-18	602327-05	VE5-N7	02/19/16	Surface grab	Soil	18	Confirmation	--	<50	<250	--	--	--	--
VE5-N3-24	603175-02	VE5-N3	03/09/16	Surface grab	Soil	24	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
VE43-N2-24	603160-01	VE43-N2	03/09/16	Surface grab	Soil	24	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
VE40-N2-22	603160-02	V40-N2	03/09/16	Surface grab	Soil	22	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
VE6-N11-25	603241-01	VE6-N11	03/14/16	Surface grab	Soil	24	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
VE7-N11-25	603241-02	VE7-N11	03/14/16	Surface grab	Soil	24	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
VE38-N5-22	603241-03	VE38-N5	03/14/16	Surface grab	Soil	22	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
VE41-N8-24	604326-01	VE41-N8	04/15/16	Surface grab	Soil	24	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
VE9-N6-31	604326-02	VE9-N6	04/15/16	Surface grab	Soil	31	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
VE8-N8-35	604326-03	VE8-N8	04/15/16	Surface grab	Soil	35	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
VE7-N7-34	604326-04	VE7-N7	04/15/16	Surface grab	Soil	34	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
VE6-N10-35	604326-05	VE6-N10	04/15/16	Surface grab	Soil	35	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
VE7-N11-35	604326-06	VE7-N11	04/15/16	Surface grab	Soil	35	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
VE6-N12-33	604326-07	VE6-N12	04/15/16	Surface grab	Soil	33	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
<b>MTCA Method A Cleanup Levels<sup>(5)</sup></b>								<b>100/30<sup>(6)</sup></b>	<b>2000</b>	<b>2000</b>	<b>0.03</b>	<b>7</b>	<b>6</b>	<b>9</b>



**Table 1**  
**Summary of Soil Analytical Results**  
**Total Petroleum Hydrocarbons**  
**Broadcast Apartments Property**  
**1420 East Madison Street**  
**Seattle, Washington**

Sample ID	Lab ID	Sample Location	Sample Date	Sample Type	Sample Matrix	Sample Depth bgs <sup>(1)</sup> (feet)	Performance/Confirmational Sample	Analytical Results (mg/kg)						
								GRPH <sup>(2)</sup>	DRPH <sup>(3)</sup>	ORPH <sup>(3)</sup>	Benzene <sup>(4)</sup>	Toluene <sup>(4)</sup>	Ethylbenzene <sup>(4)</sup>	Total Xylenes <sup>(4)</sup>
<b>UST 01 Soil Samples</b>														
UST01-BTM01-12	601072-01	UST01	01/08/16	Bottom	Soil	12	Site Assessment	--	4,500	<250	--	--	--	--
UST01-SSW01-11	601072-02	UST01	01/08/16	South Sidewall	Soil	11	Site Assessment	--	5,100	<250	--	--	--	--
UST01-WSW01-11	601072-03	UST01	01/08/16	West Sidewall	Soil	11	Site Assessment	--	8,000	<250	--	--	--	--
UST01-ESW01-11	601072-04	UST01	01/08/16	East Sidewall	Soil	11	Site Assessment	--	4,200	<250	--	--	--	--
UST01-NSW01-11	601072-05	UST01	01/08/16	North Sidewall	Soil	11	Confirmation	--	150	<250	--	--	--	--
UST01-ESW02-16	601072-06	UST01	01/08/16	East Sidewall	Soil	16	Confirmation	--	<50	<250	--	--	--	--
<b>UST02 Soil Samples</b>														
UST02-BTM01-12	601207-01	UST02	01/19/16	Bottom	Soil	12	Site Assessment	--	3,900	<250	--	--	--	--
UST02-WSW01-11	601207-02	UST02	01/19/16	West Sidewall	Soil	11	Site Assessment	--	11,000	<250	--	--	--	--
UST02-ESW01-11	601207-03	UST02	01/19/16	East Sidewall	Soil	11	Site Assessment	--	4,500	<250	--	--	--	--
UST02-SSW01-11	601207-04	UST02	01/19/16	South Sidewall	Soil	11	Site Assessment	--	18,000	350 <sup>x</sup>	--	--	--	--
UST02-NSW01-11	601207-05	UST02	01/19/16	North Sidewall	Soil	11	Confirmation	--	730	<250	--	--	--	--
UST02-WSW03-18	603105-01	UST02	03/04/16	West Sidewall	Soil	18	Confirmation	--	<50	<250	--	--	--	--
UST02-WSW04-18	603105-03	UST02	03/04/16	West Sidewall	Soil	18	Confirmation	--	<50	<250	--	--	--	--
UST02-WSW05-18	603105-04	UST02	03/04/16	West Sidewall	Soil	18	Confirmation	--	<50	<250	--	--	--	--
UST02-SSW02-23	603105-06	UST02	03/04/16	South Sidewall	Soil	23	Confirmation	--	<50	<250	--	--	--	--
UST02-BTM02-23	603105-07	UST02	03/04/16	Bottom	Soil	23	Confirmation	--	<50	<250	--	--	--	--
<b>UST03 Soil Samples</b>														
UST03-BTM01-15	601264-01	UST03	01/20/16	Bottom	Soil	15	Confirmation	--	1,600	1,000	--	--	--	--
UST03-SSW01-14	601264-03	UST03	01/20/16	South Sidewall	Soil	14	Confirmation	--	520	360	--	--	--	--
UST03-NSW01-14	601264-04	UST03	01/20/16	North Sidewall	Soil	14	Confirmation	--	<50	<250	--	--	--	--
UST03-WSW01-14	601264-05	UST03	01/20/16	West Sidewall	Soil	14	Confirmation	--	<50	<250	--	--	--	--
UST03-ESW01-14	601264-06	UST03	01/20/16	East Sidewall	Soil	14	Confirmation	--	<50	<250	--	--	--	--
UST03-BTM03-21	603105-02	UST03	03/04/16	Bottom	soil	21	Confirmation	---	<50	<250	--	--	--	--
<b>October Test Pit Soil Samples</b>														
TP04NSW-10	510084-01	TP04	10/05/15	Test Pit	Soil	10	--	150	1,600	<250	<0.02	<0.02	0.17	0.35
TP04NSW-13	510084-02	TP04	10/05/15	Test Pit	Soil	13	--	73	1,100	<250	<0.02	<0.02	0.035	0.14
TP04SSW-10	510084-04	TP04	10/05/15	Test Pit	Soil	10	--	120	1,700	<250	<0.02	<0.02	0.085	0.25
TP04SSW-15	510084-05	TP04	10/05/15	Test Pit	Soil	15	--	190	2,200	<250	<0.02	<0.02	0.24	0.46
TP05NSW-15	510084-08	TP05	10/05/15	Test Pit	Soil	15	--	33	380	<250	<0.02	<0.02	<0.02	<0.06
TP05SSW-18	510084-09	TP05	10/05/15	Test Pit	Soil	18	--	43	480	420	<0.02	<0.02	<0.02	<0.06
TP04SSW-Composite	510084-06	TP04	10/05/15	Composite	Soil	--	--	--	--	--	--	--	--	--
TP05-Composite	510084-10	TP05	10/05/15	Composite	Soil	--	--	--	--	--	--	--	--	--
<b>MTCA Method A Cleanup Levels<sup>(5)</sup></b>								<b>100/30<sup>(6)</sup></b>	<b>2000</b>	<b>2000</b>	<b>0.03</b>	<b>7</b>	<b>6</b>	<b>9</b>



**Table 1**  
**Summary of Soil Analytical Results**  
**Total Petroleum Hydrocarbons**  
**Broadcast Apartments Property**  
**1420 East Madison Street**  
**Seattle, Washington**

Sample ID	Lab ID	Sample Location	Sample Date	Sample Type	Sample Matrix	Sample Depth bgs <sup>(1)</sup> (feet)	Performance/ Confirmational Sample	Analytical Results (mg/kg)						
								GRPH <sup>(2)</sup>	DRPH <sup>(3)</sup>	ORPH <sup>(3)</sup>	Benzene <sup>(4)</sup>	Toluene <sup>(4)</sup>	Ethylbenzene <sup>(4)</sup>	Total Xylenes <sup>(4)</sup>
<b>Excavation Test Pit Soil Samples</b>														
TP101-07	602354-03	TP101	02/19/16	Test Pit	Soil	7	Confirmation	--	<50	<250	--	--	--	--
TP101-10	602354-01	TP101	02/19/16	Test Pit	Soil	10	Confirmation	--	<50	<250	--	--	--	--
TP101-16	602354-04	TP101	02/19/16	Test Pit	Soil	16	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
TP102-05	602353-03	TP102	02/20/16	Test Pit	Soil	5	Confirmation	--	<50	<250	--	--	--	--
TP102-10	602353-02	TP102	02/20/16	Test Pit	Soil	10	Confirmation	--	<50	<250	--	--	--	--
TP102-17	602353-01	TP102	02/20/16	Test Pit	Soil	17	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
TP103-06	602353-04	TP103	02/20/16	Test Pit	Soil	6	Confirmation	--	<50	<250	--	--	--	--
TP103-10	602353-05	TP103	02/20/16	Test Pit	Soil	10	Confirmation	--	<50	<250	--	--	--	--
TP103-17	602353-06	TP103	02/20/16	Test Pit	Soil	17	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
TP104-05	602353-09	TP104	02/20/16	Test Pit	Soil	5	Confirmation	--	<50	<250	--	--	--	--
TP104-10	602353-08	TP104	02/20/16	Test Pit	Soil	10	Confirmation	--	<50	<250	--	--	--	--
TP104-17	602353-09	TP104	02/20/16	Test Pit	Soil	17	Confirmation	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
<b>MTCA Method A Cleanup Levels<sup>(5)</sup></b>								<b>100/30<sup>(6)</sup></b>	<b>2000</b>	<b>2000</b>	<b>0.03</b>	<b>7</b>	<b>6</b>	<b>9</b>

**NOTES:**

**Red** denotes concentration exceeds MTCA Method A cleanup level for soil.

Samples analyzed by Friedman & Bruya, Inc. of Seattle, Washington.

<sup>(1)</sup> Sample depth in feet below Madison Street sidewalk surface at Vertical Element VE9.

<sup>(2)</sup> Analyzed by Method NWTPH-Gx.

<sup>(3)</sup> Analyzed by Method NWTPH-Dx.

<sup>(4)</sup> Analyzed by EPA Method 8021B

<sup>(5)</sup> MTCA Method A Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, revised November 2007.

<sup>(6)</sup> 100 mg/kg when benzene is not detected and 30 mg/kg when benzene is detected.

**Laboratory Notes:**

\*The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

-- = not analyzed

< = not detected at a concentration above the laboratory reporting limit

DRPH = diesel-range petroleum hydrocarbons

EPA = U.S. Environmental Protection Agency

GRPH = gasoline-range petroleum hydrocarbons

mg/kg = milligrams per kilogram

MTCA = Washington State Model Toxics Control Act

NA = not applicable

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons



**Table 2**  
**Summary of Soil Analytical Results**  
**Chlorinated VOCs and Metals**  
**Broadcast Apartments Property**  
**1420 East Madison Street**  
**Seattle, Washington**

Sample ID	Lab ID	Sample Location	Sample Date	Sample Type	Sample Matrix	Sample Depth bgs <sup>(1)</sup> (feet)	Performance/Confirmational Sample	Analytical Results (mg/kg)														Metals <sup>(3)</sup>				
								Chlorinated Volatile Organic Compounds <sup>(2)</sup>											Total Arsenic	Total Cadmium	Total Chromium	Total Lead	Total Mercury			
								Vinyl chloride	Chloroethane	1,1-Dichloroethene	Methylene chloride	trans-1,2-Dichloroethene	1,1-Dichloroethane	cis-1,2-Dichloroethene	1,2-Dichloroethane (EDC)	1,1,1-Trichloroethane	Trichloroethene (TCE)	Tetrachloroethene (PCE)								
<b>Excavation Soil Samples</b>																										
VE16-N16-02.0	601009-02	VE16-N16	01/04/16	EDC	Soil	2.0	Performance	<0.01	<0.01	<0.02	<0.5 <sup>(1)</sup>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	
VE20-N13-02.0	601009-03	VE20-N13	01/04/16	EDC	Soil	2.0	Performance	<0.01	<0.01	<0.02	<0.5 <sup>(1)</sup>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	
VE18-N25-04.0	601009-04	VE18-N25	01/04/16	EDC	Soil	4.0	Performance	<0.01	<0.01	<0.02	<0.5 <sup>(1)</sup>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	
VE15-N7-04.0	601009-05	VE15-N7	01/04/16	EDC	Soil	4.0	Performance	<0.01	<0.01	<0.02	<0.5 <sup>(1)</sup>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	
VE18-N63-06	601030-01	VE18-N63	01/05/16	Disposal	Soil	6.0	Performance	<0.01	<0.01	<0.01	<0.5 <sup>(1)</sup>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	
VE16-N24-06	601074-01	VE16-N24	01/07/16	EDC	Soil	6.0	Performance	<0.01	<0.01	<0.02 <sup>(a)</sup>	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	
VE18-N26-06	601074-02	VE18-N26	01/07/16	EDC	Soil	6.0	Performance	<0.01	<0.01	<0.02 <sup>(a)</sup>	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	
VE22-N44-09	601071-01	VE22-N44	01/07/16	Disposal	Soil	9.0	Performance	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
VE16-N47-08	601073-01	VE16-N47	01/08/16	Disposal	Soil/Grease	8.0	Performance	<0.01	<0.01	<0.02 <sup>(a)</sup>	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	
VE17-N46-12	601101-03	VE17-N46	01/11/16	Disposal	Soil	12.0	Performance	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
VE17-N46-14	601101-04	VE17-N46	01/11/16	Disposal	Soil	14.0	Performance	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
VE17-N46-20	601101-07	VE17-N46	01/11/16	Disposal	Soil	20.0	Performance	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>UST01 Soil Samples</b>																										
UST01-BTM01-12	601072-01	UST01	01/08/16	Bottom	Soil	12.0	Site Assessment	<0.01	<0.01	<0.02 <sup>(a)</sup>	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	
UST01-SSW01-11	601072-02	UST01	01/08/16	South Sidewall	Soil	11.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
UST01-WSW01-11	601072-03	UST01	01/08/16	West Sidewall	Soil	11.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
UST01-ESW01-11	601072-04	UST01	01/08/16	East Sidewall	Soil	11.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
UST01-NSW01-11	601072-05	UST01	01/08/16	North Sidewall	Soil	11.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
UST01-ESW02-16	601072-06	UST01	01/08/16	East Sidewall	Soil	16.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>UST02 Soil Samples</b>																										
UST02-BTM01-12	601207-01	UST02	01/19/16	Bottom	Soil	12.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
UST02-WSW01-11	601207-02	UST02	01/19/16	West Sidewall	Soil	11.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
UST02-ESW01-11	601207-03	UST02	01/19/16	East Sidewall	Soil	11.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
UST02-SSW01-11	601207-04	UST02	01/19/16	South Sidewall	Soil	11.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
UST02-NSW01-11	601207-05	UST02	01/19/16	North Sidewall	Soil	11.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>UST03 Soil Samples</b>																										
UST03-BTM01-15	601264-01	UST03	01/20/16	Bottom	Soil	15.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
UST03-BTM02-15	601264-02	UST03	01/20/16	Bottom	Soil	15.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
UST03-SSW01-14	601264-03	UST03	01/20/16	South Sidewall	Soil	14.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
UST03-NSW01-14	601264-04	UST03	01/20/16	North Sidewall	Soil	14.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
UST03-WSW01-14	601264-05	UST03	01/20/16	West Sidewall	Soil	14.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
UST03-ESW01-14	601264-06	UST03	01/20/16	East Sidewall	Soil	14.0	Site Assessment	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>MTCA Method A Cleanup Levels</b>								<b>0.67<sup>(4)</sup></b>	<b>NE</b>	<b>4,000<sup>(5)</sup></b>	<b>0.02<sup>(4)</sup></b>	<b>1,600<sup>(5)</sup></b>	<b>16,000<sup>(5)</sup></b>	<b>160<sup>(5)</sup></b>	<b>11<sup>(6)</sup></b>	<b>2<sup>(4)</sup></b>	<b>0.03<sup>(4)</sup></b>	<b>0.05<sup>(4)</sup></b>	<b>20<sup>(4)</sup></b>	<b>2<sup>(4)</sup></b>	<b>2000<sup>(4)</sup></b>	<b>250<sup>(4)</sup></b>	<b>2<sup>(4)</sup></b>			



**Table 2**  
**Summary of Soil Analytical Results**  
**Chlorinated VOCs and Metals**  
**Broadcast Apartments Property**  
**1420 East Madison Street**  
**Seattle, Washington**

Analytical Results (mg/kg)																						
							Chlorinated Volatile Organic Compounds <sup>(2)</sup>										Metals <sup>(3)</sup>					
Test Pit Soil Samples																						
TP04NSW-10	510084-01	TP04	10/05/15	North Sidewall	Soil	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
TP04NSW-13	510084-02	TP04	10/05/15	North Sidewall	Soil	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
TP04SSW-10	510084-04	TP04	10/05/15	South Sidewall	Soil	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
TP04SSW-15	510084-05	TP04	10/05/15	South Sidewall	Soil	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
TP05NSW-15	510084-08	TP05	10/05/15	North Sidewall	Soil	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
TP05SSW-18	510084-09	TP05	10/05/15	South Sidewall	Soil	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
TP04SSW-Composite	510084-06	TP04	10/05/15	Composite	Soil	--	--	--	--	--	--	--	--	--	--	--	--	<1	<1	6.23	1.47	<1
TP05-Composite	510084-10	TP05	10/05/15	Composite	Soil	--	--	--	--	--	--	--	--	--	--	--	--	<1	<1	5.37	1.10	<1
<b>MTCA Method A Cleanup Levels</b>							<b>0.67<sup>(4)</sup></b>	<b>NE</b>	<b>4,000<sup>(5)</sup></b>	<b>0.02<sup>(4)</sup></b>	<b>1,600<sup>(5)</sup></b>	<b>16,000<sup>(5)</sup></b>	<b>160<sup>(5)</sup></b>	<b>11<sup>(6)</sup></b>	<b>2<sup>(4)</sup></b>	<b>0.03<sup>(4)</sup></b>	<b>0.05<sup>(4)</sup></b>	<b>20<sup>(4)</sup></b>	<b>2<sup>(4)</sup></b>	<b>2000<sup>(4)</sup></b>	<b>250<sup>(4)</sup></b>	<b>2<sup>(4)</sup></b>

**NOTES:**

**Red** denotes concentration exceeds MTCA Method A cleanup level for soil.

Samples analyzed by Friedman & Bruya, Inc. of Seattle, Washington.

<sup>(1)</sup> Sample depth in feet below Madison Street sidewalk surface at the corresponding Vertical Element VE9.

<sup>(2)</sup> Analyzed by EPA Method 8260C.

<sup>(3)</sup> Analyzed by EPA Method 6020.

<sup>(4)</sup> MTCA Method A Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, revised November 2007.

<sup>(5)</sup> CLARC, Soil, Method B Cleanup Levels, Non-Carcinogen, Standard Formula Value, Direct Contact (ingestion only), CLARC website <<https://fortress.wa.gov/ecy/clarc/CLARHome.aspx>>.

<sup>(6)</sup> CLARC, Soil, Method B Cleanup Levels, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), CLARC website <<https://fortress.wa.gov/ecy/clarc/CLARHome.aspx>>.

**Laboratory Notes:**

<sup>(a)</sup> The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

<sup>(b)</sup> The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

-- = not analyzed

< = not detected at a concentration above the laboratory reporting limit

CLARC = Cleanup Levels and Risk Calculation

EPA = U.S. Environmental Protection Agency

mg/kg = milligrams per kilogram

MTCA = Washington State Model Toxics Control Act

NA = not applicable

NE = not established

SoundEarth = SoundEarth Strategies, Inc.



**Table 3**  
**Summary of Groundwater Analytical Results**  
**Broadcast Apartments Property**  
**1420 East Madison Street**  
**Seattle, Washington**

Well ID	Sample Date	Sampled By	Analytical Results (in micrograms per liter)			Sulfate (in milligrams per liter)
			DRPH <sup>(1)</sup>	ORPH <sup>(1)</sup>	EDC <sup>(2)</sup>	
B-1	06/13/03	GSM	ND	ND	<b>41</b>	--
B-2	06/13/03	GSM	ND	ND	--	--
B-3	06/13/03	GSM	ND	ND	<b>5.7</b>	--
MW01	01/13/06	Noll	<130	<250	<b>53</b>	--
	02/02/06	GSM	<130	<250	<b>69</b>	--
	06/16/06	GSM	<130	<250	<b>54</b>	--
	06/16/06	GSM	<130	<250	<b>58</b>	--
	01/28/09	G-Logics	--	--	<1.0	--
	05/12/09	G-Logics	--	--	<1.0	--
	08/27/09	G-Logics	--	--	<b>23</b>	--
	03/02/10	G-Logics	--	--	<b>11</b>	--
	08/20/10	G-Logics	--	--	<b>18</b>	--
	03/15/12	EAI	--	--	<b>8.9</b>	--
	02/28/14	SoundEarth	--	--	3.3	--
	08/14/14	SoundEarth	--	--	<b>6.6</b>	--
	12/18/14	SoundEarth	--	--	1.3	--
03/17/15	SoundEarth	--	--	1.2	--	
MW02	01/13/06	Noll	<130	<250	<2	--
	06/16/06	GeoScience	--	--	<2	--
	01/28/09	G-Logics	--	--	<1.0	--
	05/12/09	G-Logics	--	--	<1.0	--
	08/27/09	G-Logics	--	--	<1.0	--
	08/27/09	G-Logics	--	--	<1.0	--
	03/02/10	G-Logics	--	--	<1.0	--
	08/20/10	G-Logics	--	--	<1.0	--
MW03	01/13/06	Noll	<130	<250	3	--
	06/16/06	GSM	--	--	<2	--
	01/28/09	G-Logics	--	--	<1.0	--
	05/12/09	G-Logics	<100	<200	<1.0	--
	08/27/09	G-Logics	--	--	<1.0	--
	03/02/10	G-Logics	--	--	<1.0	--
	08/20/10	G-Logics	--	--	<1.0	--
MW04	06/17/06	GSM	<130	<250	<b>6.0</b>	--
	01/28/09	G-Logics	--	--	<1.0	--
	05/12/09	G-Logics	--	--	<1.0	--
	03/02/10	G-Logics	--	--	<1.0	--
	08/27/09	G-Logics	--	--	<1.0	--
	03/02/10	G-Logics	--	--	<1.0	--
	08/20/10	G-Logics	--	--	<1.0	--
MW05	06/16/06	GSM	<130	<250	<b>61</b>	--
	01/28/09	G-Logics	--	--	<1.0	--
	05/12/09	G-Logics	--	--	<1.0	--
	08/27/09	G-Logics	--	--	<1.0	--
	03/02/10	G-Logics	--	--	<b>8.1</b>	--
	03/15/12	EAI	--	--	<b>9.9</b>	--
	02/28/14	SoundEarth	--	--	<b>11</b>	--
	08/14/14	SoundEarth	--	--	<b>6.5</b>	--
	12/18/14	SoundEarth	--	--	2.3	--
03/17/15	SoundEarth	--	--	<b>6.2</b>	--	
<b>MTCA Method A Cleanup Level<sup>(3)</sup></b>			<b>500</b>	<b>500</b>	<b>5</b>	<b>250</b>



**Table 3**  
**Summary of Groundwater Analytical Results**  
**Broadcast Apartments Property**  
**1420 East Madison Street**  
**Seattle, Washington**

Well ID	Sample Date	Sampled By	Analytical Results (in micrograms per liter)			Sulfate (in milligrams per liter)
			DRPH <sup>(1)</sup>	ORPH <sup>(1)</sup>	EDC <sup>(2)</sup>	
MW06	06/16/06	GeoScience	<130	<250	<b>32</b>	--
	01/28/09	G-Logics	--	--	<1.0	--
	05/12/09	G-Logics	--	--	<1.0	--
	08/27/09	G-Logics	--	--	<b>7.0</b>	--
	03/02/10	G-Logics	--	--	<b>15</b>	--
	03/15/12	EAI	<50	<250	<1	--
	02/28/14	SoundEarth	--	--	<1	--
	09/18/14	SoundEarth	--	--	1.5 <sup>(4)</sup>	30.8
	12/18/14	SoundEarth	--	--	1.2	--
03/17/15	SoundEarth	--	--	<1	--	
MW07	01/28/09	G-Logics	--	--	<1.0	--
	05/12/09	G-Logics	--	--	<1.0	--
	08/27/09	G-Logics	--	--	1.2	--
	03/02/10	G-Logics	--	--	0.71 <sup>1</sup>	--
MW08	01/28/09	G-Logics	<100	<200	<1.0	--
	05/12/09	G-Logics	<100	<200	<1.0	--
	08/27/09	G-Logics	<200	--	<b>8.4</b>	--
	03/02/10	G-Logics	--	--	<b>8.2</b>	--
	08/20/10	G-Logics	--	--	<b>7.6</b>	--
	03/15/12	EAI	<50	<250	<b>7</b>	--
	02/28/14	SoundEarth	--	--	<b>5.7</b>	--
	08/14/14	SoundEarth	--	--	<1	--
	12/18/14	SoundEarth	--	--	2.2	--
03/17/15	SoundEarth	--	--	<b>5.9</b>	--	
MW09	01/28/09	G-Logics	--	--	<1.0	--
	05/12/09	G-Logics	--	--	<1.0	--
	08/27/09	G-Logics	--	--	<1.0	--
	03/02/10	G-Logics	--	--	<1.0	--
	03/13/14	SoundEarth	--	--	<1	--
	05/19/14	SoundEarth	--	--	--	23.3
	08/14/14	SoundEarth	--	--	<1	29.9
	12/18/14	SoundEarth	--	--	<1	26.8
03/17/15	SoundEarth	--	--	<1	--	
MW10	01/28/09	G-Logics	<100	<200	<1.0	--
	05/12/09	G-Logics	<b>590</b>	<200	<1.0	--
	08/27/09	G-Logics	<200	--	<1.0	--
	03/02/10	G-Logics	<100	<200	<1.0	--
	03/02/10	G-Logics	<100	<200	--	--
	03/15/12	EAI	<b>540</b>	<250	<1	--
02/28/14	SoundEarth	--	--	<1	--	
MW11	01/28/09	G-Logics	--	--	<1.0	--
	03/02/10	G-Logics	--	--	<1.0	--
	03/15/12	EAI	--	--	<1	--
	02/28/14	SoundEarth	--	--	<1	--
	05/19/14	SoundEarth	--	--	--	154
	08/14/14	SoundEarth	--	--	--	184
12/18/14	SoundEarth	--	--	--	160	
<b>MTCA Method A Cleanup Level<sup>(3)</sup></b>			<b>500</b>	<b>500</b>	<b>5</b>	<b>250</b>





**Table 3**  
**Summary of Groundwater Analytical Results**  
**Broadcast Apartments Property**  
**1420 East Madison Street**  
**Seattle, Washington**

Well ID	Sample Date	Sampled By	Analytical Results (in micrograms per liter)			Sulfate (in milligrams per liter)
			DRPH <sup>(1)</sup>	ORPH <sup>(1)</sup>	EDC <sup>(2)</sup>	
MW12	01/28/09	G-Logics	--	--	0.75 <sup>J</sup>	--
	08/20/10	G-Logics	--	--	<1.0	--
	03/15/12	EAI	--	--	<1	--
	02/28/14	SoundEarth	--	--	<1	--
MW13	01/28/09	G-Logics	--	--	<1.0	--
MW14	08/20/10	G-Logics	--	--	<1.0	--
	03/15/12	EAI	--	--	<1	--
MW15	08/20/10	G-Logics	--	--	<1.0	--
	02/28/14	SoundEarth	--	--	<1	--
MW16	03/13/14	SoundEarth	--	--	<1	--
	08/14/14	SoundEarth	--	--	<1	--
	09/22/14	SoundEarth	--	--	--	525
	12/18/14	SoundEarth	--	--	<1	658
	03/17/15	SoundEarth	--	--	<1	1,780
DW02 <sup>(4)</sup>	02/15/16	SoundEarth	--	--	5.7	--
	04/22/16	SoundEarth	--	--	<0.1	--
	05/10/16	SoundEarth	--	--	<1	--
	05/17/16	SoundEarth	--	--	<1	--
DW03 <sup>(4)</sup>	02/15/16	SoundEarth	--	--	2.3	--
	05/10/16	SoundEarth	--	--	<1	--
	05/17/16	SoundEarth	--	--	<1	--
DW05 <sup>(4)</sup>	05/10/16	SoundEarth	--	--	<1	--
	05/17/16	SoundEarth	--	--	<1	--
<b>MTCA Method A Cleanup Level<sup>(3)</sup></b>			<b>500</b>	<b>500</b>	<b>5</b>	<b>250<sup>(5)</sup></b>

**NOTES:**

**Red** denotes concentration in excess of MTCA Method A Cleanup Level for Groundwater.

Laboratory Note:

Samples collected by SoundEarth analyzed by Friedman & Bruya, Inc. of Seattle, Washington.

<sup>J</sup>Estimated Value

<sup>(1)</sup>Analyzed by Method NWTPH-Dx.

<sup>(2)</sup>Analyzed by U.S. Environmental Protection Agency Method 8260C.

<sup>(3)</sup>MTCA Cleanup Regulation, Method A Cleanup Levels, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, revised November 2007.

<sup>(4)</sup>Grab groundwater sample; collected prior to stabilization of water quality parameters.

<sup>(5)</sup>Secondary Maximum Contaminant Level

-- = not measured or not analyzed

< = not detected above the applicable laboratory reporting limit

DRPH = diesel-range petroleum hydrocarbons

EAI = Environmental Associates Inc.

EDC = 1,2-dichloroethane (ethylene dichloride)

G-Logics = G-Logics, Inc.

Geotech = Geotech Consultants, Inc.

GSM = GeoScience Management

MTCA = Washington State Model Toxics Control Act

Noll = Noll Environmental, Inc.

ORPH = oil-range petroleum hydrocarbons

SoundEarth = SoundEarth Strategies, Inc.

## **PHOTOGRAPHS**



Photograph 1. Taken October 5, 2015, looking south. Note TP04 and soil stockpile.



Photograph 2. Taken January 8, 2016, looking northeast. Removal of UST01.



Photograph 3. Taken January 8, 2016. UST01 removed and placed on trailer for disposal off site. Note holes in tank walls.



Photograph 4. Taken January 8, 2016, looking south in the vicinity of UST01. Note the boundary between non-impacted soil and stained PCS.



Photograph 5. Taken January 18, 2016, looking southwest. MarVac pumping out displaced contents of UST02.



Photograph 6. Taken January 19, 2016, looking north. Removal of UST02 along west side of Property.



Photograph 7. Taken January 20, 2016, looking east. Removal of UST03. Note product lines connecting UST03 to apartment building to the north.



Photograph 6. Taken January 20, 2016, looking southwest. UST03 removed and placed on trailer.



Photograph 7. Taken January 26, 2016, looking south. Plastic sheeting laid down over PCS.



Photograph 8. Taken January 27, 2016, looking northeast. PCS stockpile covered with plastic. Kulchin installing H-piles along north Property boundary.



Photograph 9. Taken February 6, 2016, looking southeast. Kulchin installing dewatering well DW01.



Photograph 10. Taken February 11, 2016, looking west. Clean soil to the west of former location of UST02.



Photograph 11. Taken February 17, 2016, looking south. Excavating and stockpiling PCS.



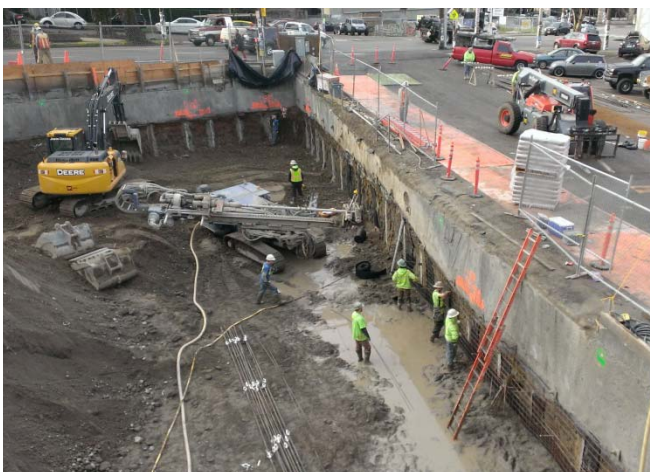
Photograph 12. Taken February 18, 2016, looking south. Loading PCS stockpile into haul truck.



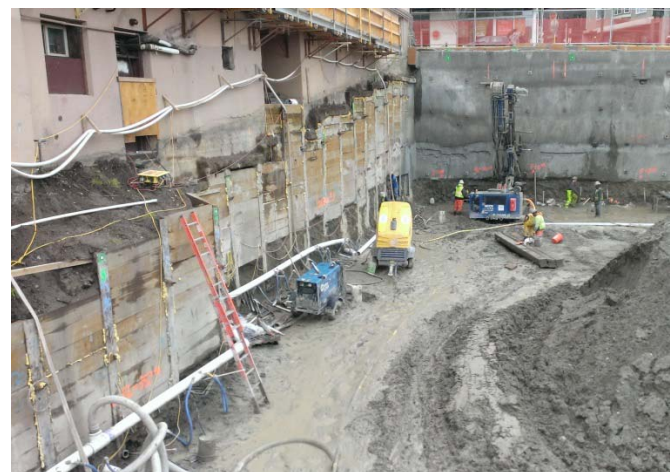
Photograph 13. Taken February 20, 2016, looking west. Digging test pit TP102.



Photograph 16. February 25, 2016, looking southwest. Kulchin completing first lift of perimeter shoring.



Photograph 17. Taken March 4, 2016, looking southwest. Kulchin installing soil nails, second lift of shoring along west wall. Soil in floor of excavation is non-impacted.



Photograph 18. Taken March 14, 2016, looking east. Kulchin installing angled dewatering wells around perimeter of Property.



Photograph 19. Taken April 15, 2016, looking southeast. Total depth of excavation has been reached in center of Property. Footing installation in progress.



Photograph 20. Taken May 10, 2016, looking northeast. Set up prior to collecting groundwater sample from dewatering well DW05.

**APPENDIX A**  
**UST LETTERS OF CERTIFICATION**



# FILCO COMPANY INC.

P.O. Box 31228 • Seattle, WA 98103 • Ph: (206) 547-8347 • Fax: (206) 548-9352  
[www.FilcoEnviro.com](http://www.FilcoEnviro.com) • Lic# FILCOCI080RU

REC'D FEB 10 2016

## LETTER OF CERTIFICATION

January 8<sup>th</sup>, 2016

Sound Earth Strategies  
2811 Fairview Ave E, Suite 200  
Seattle, Washington 98122

RE: Commercial Underground Heating Oil Tank at 1420 E Madison Street  
Seattle, Washington 98122

This is to certify that Filco Company, Inc. has removed one approximate 300 gallon underground commercial heating oil tank from the above named property. The tank and its contents were disposed of according to the codes and guidelines set forth by the Washington State Department of Ecology and local Fire Department regulations and the decommissioned tank meets these standards.

*Phil Suetens*

Phil Suetens  
President Filco Co., Inc.



Fri 1/8/16 10am

Your  
Seattle  
Fire Department

RECEIVED  
JAN 07 2016  
PERMIT SECTION



APPLICATION FOR TEMPORARY PERMIT

Code - 7908

Commercial Tank Removal/Decommissioning

Permit Fee: \$218.00

Date Issued: 01/08/2016

Tank(s) must be removed from site on the same day as permit is issued!

TO BE COMPLETED BY PERMIT APPLICANT

FIRM NAME	Filco Company, Inc.		
MAILING ADDRESS	PO Box 31228	SUITE	
CITY	Seattle	STATE	WA ZIP 98103
JOBSITE ADDRESS	1420 East Madison St.		
CONTACT PERSON	Nate Montgomery	PHONE NUMBER	(206) 423-1791
Number of Tank(s):	one	Tank Size(s):	300
Product(s) Previously Contained:	Heating Oil		<input type="checkbox"/> Aboveground tank <input checked="" type="checkbox"/> Underground tank
<input checked="" type="checkbox"/>	Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)		
<input type="checkbox"/>	Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns)		
Hot work being conducted:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes (if yes, a separate hot work permit is required)	

Permit applications may be submitted in person weekdays from 8:00 a.m. to 5:00 p.m., or mailed to:

Seattle Fire Department  
Fire Marshal's Office - Permits  
220 Third Ave S, 2<sup>nd</sup> Floor  
Seattle, WA 98104-2608

To pay with a Visa or Master Card: Fax or email this application  
THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT  
Tel: (206) 386-1450 / Fax: (206) 386-1348  
E-mail: [permits@seattle.gov](mailto:permits@seattle.gov)

Call 386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.  
TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION  
NO HOT-WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, federal, state and local regulations. THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED

Special permit conditions: Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)

Follow all attached conditions

FMO USE:	APPROVED BY:
Check No.: 5-255919	Inspector: [Signature]
Receipt No.: 60680106116	Name of Marine Chemist: Gray Tre Hank
Application ID#: 103643	Date: 01/08/2016
	SFD ID# 1082 Certificate # 688



# FILCO COMPANY INC.

P.O. Box 31228 • Seattle, WA 98103 • Ph: (206) 547-8347 • Fax: (206) 548-9352  
www.FilcoEnviro.com • Lic# FILCOCI080RU

REC'D MAR 16 2016

## LETTER OF CERTIFICATION

January 19<sup>th</sup>, 2016

Sound Earth Strategies  
2811 Fairview Ave E, Suite 200  
Seattle, Washington 98122

RE: Commercial Underground Heating Oil Tank at 1420 E Madison Street  
Seattle, Washington 98122

This is to certify that Filco Company, Inc. has removed one approximate 675 gallon underground commercial heating oil tank from the above named property. The tank and its contents were disposed of according to the codes and guidelines set forth by the Washington State Department of Ecology and local Fire Department regulations and the decommissioned tank meets these standards.

*Phil Suetens*

Phil Suetens  
President Filco Co., Inc.

Tues 1/19/16  
① (206) 10 AM  
RD

Your  
Seattle  
Fire Department



APPLICATION FOR TEMPORARY PERMIT

Code 7908

Commercial Tank Removal/Decommissioning

Permit Fee: \$218.00

Date Issued: 1/19/16

Tank(s) must be removed from site on the same day as permit is issued!

TO BE COMPLETED BY PERMIT APPLICANT

FIRM NAME	Filco Company, Inc.		
MAILING ADDRESS	PO Box 31228	SUITE	
CITY	Seattle	STATE	WA ZIP 98103
JOBSITE ADDRESS	1420 E. Madison St.		
CONTACT PERSON	Nate Montgomery	PHONE NUMBER	(206) 423-1791
Number of Tank(s):	One	Tank Size(s):	600
Product(s) Previously Contained:	heating oil		<input type="checkbox"/> Aboveground tank <input checked="" type="checkbox"/> Underground tank
<input checked="" type="checkbox"/>	Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)		
<input type="checkbox"/>	Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns)		
Hot work being conducted:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes (If yes, a separate hot work permit is required)	

Permit applications may be submitted in person weekdays from 8:00 a.m. to 5:00 p.m., or mailed to:

Seattle Fire Department  
Fire Marshal's Office - Permits  
220 Third Ave S, 2<sup>nd</sup> Floor  
Seattle, WA 98104-2608

To pay with a Visa or Master Card: Fax or email this application  
**THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT**  
Tel: (206) 386-1450 / Fax: (206) 386-1348  
E-mail: [permits@seattle.gov](mailto:permits@seattle.gov)

Call 386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.  
**TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION**  
**NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!**

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, federal, state and local regulations. **THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED**

Special permit conditions: Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)

<b>FMO USE:</b>	<b>APPROVED BY:</b>
Check No.: 6125011516	Inspector: T. WILLIAMS SFD ID# 1481
Receipt No.: 5-256223	Name of Marine Chemist: MIKE SCHMITT Certificate # 711
Application ID#: 103754	Date: 1/19/16 - 146648

SOUND TESTING, INC.

P.O. BOX 16204 SEATTLE, WA 98116  
(206) 932-0206 FAX (206) 937-3848  
WWW.SOUNDTESTINGINC.COM

MARINE CHEMIST CERTIFICATE

SERIAL N<sup>o</sup> 46648

Survey Requested by Fileco Co.

Vessel Owner or Agent Fileco Co. Date 1/19/2016

Vessel UST - 1420 E. Madison

Type of Vessel UST Specific Location of Vessel 1420 E. Madison St

Last Three (3) Loadings Fuel Oil / Water

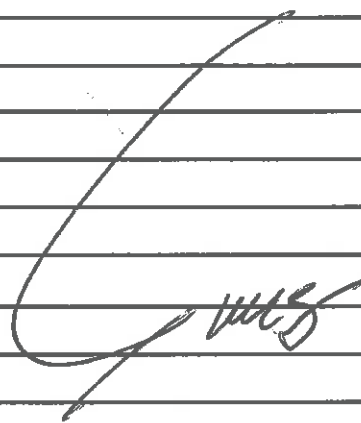
Tests Performed O<sub>2</sub>, LEL, H<sub>2</sub>S, CO, VOCs Time Survey Completed 08:56 a.m.

Tanks Ullage: [ 20.8% O<sub>2</sub>, 0% LEL, 1ppm H<sub>2</sub>S, 1ppm CO, 76ppm VOCs ]  
(Water & DRG Resid.)

Tank Emptied - min. water/dirty Resid. Bottom

- Tank May be safely excavated & transported -

Not Safe for Hot Work - no burning / welding



In the event of changes adversely affecting conditions in the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

Qualifications: Manipulation of valves or devices tending to alter conditions in pipe lines or tanks noted above, unless specifically approved in this certificate, will require re-inspection and a new Certificate for spaces so affected. All piping, heating coils, pumps and floating roof gaskets attached to or contained within spaces listed above shall be considered "NOT SAFE" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS

(These detail the minimum conditions for Safe Entry and Hot Work.) The Marine Chemist may request additional measures if workplace conditions so dictate.

**ATMOSPHERE SAFE FOR WORKERS** means that in a space (a) the oxygen content is between 19.5% and 22% by volume, and (b) combustible gas is less than 10% of the Lower Explosive Limit, and (c) airborne toxic materials are within permissible concentrations as listed in OSHA's Subpart Z or in ACGIH's current list of Threshold Limit Values.

**SAFE FOR HOT WORK** means that (a) oxygen within the space is less than 22% by volume; and (b) the combustible gas is less than 10% of the Lower Explosive Limit; and (c) cargo residues within the space will not combust during hot work; and (d) pipes that can deliver hazardous materials to the workspace have been separated, blanked, or locked out, and nearby hazardous spaces have been evaluated and noted on the certificate.

**NOT SAFE FOR HOT WORK:** In the compartment or space so designated, hot work is not permitted.

"The undersigned acknowledges receipt of this Certificate and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed [Signature] Name Fileco Company 1/19/2016 Date

Signed [Signature] Marine Chemist 711 Certificate No.

POSTING



# FILCO COMPANY INC.

P.O. Box 31228 • Seattle, WA 98103 • Ph: (206) 547-8347 • Fax: (206) 548-9352  
www.FilcoEnviro.com • Lic# FILCOCI080RU

REC'D MAR 16 2016

## LETTER OF CERTIFICATION

January 19<sup>th</sup>, 2016

Sound Earth Strategies  
2811 Fairview Ave E, Suite 200  
Seattle, Washington 98122

RE: Commercial Underground Heating Oil Tank at 1420 E Madison Street  
Seattle, Washington 98122

This is to certify that Filco Company, Inc. has removed one approximate 2,000 gallon underground commercial heating oil tank from the above named property. The tank and its contents were disposed of according to the codes and guidelines set forth by the Washington State Department of Ecology and local Fire Department regulations and the decommissioned tank meets these standards.

*Phil Suetens*

Phil Suetens  
President Filco Co., Inc.

Wed 01/20/16 @11am

RECEIVED  
JAN 19 2016  
PERMIT SECTION



Your  
Seattle  
Fire Department

APPLICATION FOR TEMPORARY PERMIT

Code 7908

Commercial Tank Removal/Decommissioning

Permit Fee: \$218.00

Date Issued: 1/20/2016

Tank(s) must be removed from site on the same day as permit is issued!

TO BE COMPLETED BY PERMIT APPLICANT

FIRM NAME	Filco Company, Inc.		
MAILING ADDRESS	PO Box 31228	SUITE	
CITY	Seattle	STATE	WA ZIP 98103
JOBSITE ADDRESS	1420 E. Madison St		
CONTACT PERSON	Nate Montgomery	PHONE NUMBER	(206) 423-1791
Number of Tank(s):	one	Tank Size(s):	1500
Product(s) Previously Contained:	Heating Oil		<input type="checkbox"/> Aboveground tank
			<input checked="" type="checkbox"/> Underground tank
<input checked="" type="checkbox"/>	Removal (Marine Chemist inspection and certificate required for all tanks regardless of size or contents)		
<input type="checkbox"/>	Abandonment-in-Place (Marine Chemist certificate required for tanks previously containing Class I flammable liquids and/or unknowns)		
Hot work being conducted:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	(If yes, a separate hot work permit is required)

Permit applications may be submitted in person weekdays from 8:00 a.m. to 5:00 p.m., or mailed to:

Seattle Fire Department  
Fire Marshal's Office - Permits  
220 Third Ave S, 2<sup>nd</sup> Floor  
Seattle, WA 98104-2608

To pay with a Visa or Master Card: Fax or email this application  
**THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT**  
Tel: (206) 386-1450 / Fax: (206) 386-1348  
E-mail: [permits@seattle.gov](mailto:permits@seattle.gov)

Call 386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.  
**TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION**  
**NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!**

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, federal, state and local regulations. **THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED**

Special permit conditions: Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)

FMO USE:	APPROVED BY: <u>JOE CRAWFORD</u>	<u>1384</u>
Check No.: <u>00006130011916</u>	Inspector: <u>JOE CRAWFORD</u>	SFD ID# <u>1384</u>
Receipt No.: <u>5-266269</u>	Name of Marine Chemist: <u>JE TRETNIK</u>	Certificate # <u>725</u>
Application ID#: <u>103765</u>	Date: <u>1/20/2016</u>	

SOUND TESTING, INC.  
P.O. BOX 16204 SEATTLE, WA 98116  
(206) 932-0206 FAX (206) 937-3848  
WWW.SOUNDTESTINGINC.COM

# MARINE CHEMIST CERTIFICATE

SERIAL N<sup>o</sup> 46641

FILCO  
Survey Requested by

FILCO  
Vessel Owner or Agent

1/20/16  
Date

UST  
Vessel

UST  
Type of Vessel

1420 E MADISON ST.  
Specific Location of Vessel

(HEATING OIL) X3  
Last Three (3) Loadings

VISUAL, O<sub>2</sub>, LEL, CO, H<sub>2</sub>S, THC  
Tests Performed

1038 HRS  
Time Survey Completed

~ 2,000 gal. UST

SAFE FOR EXCAVATION

SAFE FOR TRANSPORT

O<sub>2</sub> = 20.9%, LEL = 0%  
~~CO = H<sub>2</sub>S = THC = 0~~  
CO = H<sub>2</sub>S < 1 ppm  
THC = 85 ppm ± 1 ppm

[METER: BW S/N SK313-000374 / CAL: 0800 1/20/16]

In the event of changes adversely affecting conditions in the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

Qualifications: Manipulation of valves or devices tending to alter conditions in pipe lines or tanks noted above, unless specifically approved in this certificate, will require re-inspection and a new Certificate for spaces so affected. All piping, heating coils, pumps and floating roof gaskets attached to or contained within spaces listed above shall be considered "NOT SAFE" unless otherwise specifically designated.

### STANDARD SAFETY DESIGNATIONS

(These detail the minimum conditions for Safe Entry and Hot Work.) The Marine Chemist may request additional measures if workplace conditions so dictate.

**ATMOSPHERE SAFE FOR WORKERS** means that in a space (a) the oxygen content is between 19.5% and 22% by volume, and (b) combustible gas is less than 10% of the Lower Explosive Limit, and (c) airborne toxic materials are within permissible concentrations as listed in OSHA's Subpart Z or in ACGIH's current list of Threshold Limit Values.

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**NOT SAFE FOR HOT WORK:** In the compartment or space so designated, hot work is not permitted.

"The undersigned acknowledges receipt of this Certificate and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed Cedric  
Name

FILCO  
Company

1/20/16  
Date

Signed [Signature] #725  
Marine Chemist Certificate No.

POSTING

**APPENDIX B**  
**SOIL DISPOSAL DOCUMENTATION**





# Ticket List By Customer\Order\Product



Date From 12/21/2015 To 03/17/2016  
 Location(s) 1876  
 Order: 41046267

Date	TicketNo	Delivery Address	Vehicle	TimeIn	TicketTime	Qty	Unit	S h i p	C a s h	V o i d
<b>Scale Tickets</b>										
<b>1420 EAST MADISON STREET LLC</b>										
<b>41046267</b>										
<b>1192508</b>										
12/23/15	1876085263	P:1420 ESAT MADISON	1876-1,EVERETT SOIL GENERIC	9:12:00	9:21:00	6.34	TON	R		
1/4/16	1876085323	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	9:39:00	9:54:00	29.41	TON	R		
1/5/16	1876085340	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	12:03:00	12:27:00	33.58	TON	R		
1/5/16	1876085341	P:76:1420 EAST MADISON	1876-3,EVERETT SOIL GENERIC	12:15:00	12:34:00	35.27	TON	R		
1/11/16	1876085382	P:76:1420 EAST MADISON	1876-5,EVERETT SOIL GENERIC	8:43:00	9:00:00	32.86	TON	R		
1/11/16	1876085383	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	8:47:00	9:04:00	33.73	TON	R		
1/11/16	1876085384	P:76:1420 EAST MADISON	GR16T,GIRARD RESOURCES	9:47:00	10:07:00	36.29	TON	R		
1/11/16	1876085385	P:76:1420 EAST MADISON	1876-5,EVERETT SOIL GENERIC	0:00:00	11:18:00	28.88	TON			
1/11/16	1876085386	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	11:23:00	30.39	TON			
1/11/16	1876085387	P:76:1420 EAST MADISON	GR16T,GIRARD RESOURCES	0:00:00	12:20:00	33.93	TON	R		
1/11/16	1876085390	P:76:1420 EAST MADISON	GR16T,GIRARD RESOURCES	0:00:00	14:42:00	35.76	TON	R		
1/26/16	1876085531	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	8:02:00	8:24:00	17.34	TON	R		
1/26/16	1876085532	P:76:1420 EAST MADISON	1876-1,EVERETT SOIL GENERIC	8:45:00	8:56:00	16.53	TON	R		
1/26/16	1876085533	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	0:00:00	9:15:00	9.17	TON	R		
1/26/16	1876085534	P:76:1420 EAST MADISON	FT7T,FISCHER TRUCKING	9:04:00	9:19:00	15.19	TON	R		
1/26/16	1876085535	P:76:1420 EAST MADISON	1876-1,EVERETT SOIL GENERIC	0:00:00	10:54:00	13.42	TON			
1/26/16	1876085536	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	11:00:00	12.61	TON			
1/26/16	1876085537	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	0:00:00	11:10:00	12.89	TON			
1/26/16	1876085538	P:76:1420 EAST MADISON	FT7T,FISCHER TRUCKING	0:00:00	11:18:00	12.39	TON			

Date	TicketNo	Delivery Address	Vehicle	TimeIn	TicketTime	Qty	Unit	S h i p	C a s h	V o i d
1/26/16	1876085539	P:76:1420 EAST MADISON	1876-1,EVERETT SOIL GENERIC	0:00:00	12:30:00	15.35	TON			
1/26/16	1876085540	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	12:38:00	14.49	TON			
1/26/16	1876085541	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	0:00:00	12:50:00	13.94	TON			
1/26/16	1876085542	P:76:1420 EAST MADISON	FT7T,FISCHER TRUCKING	0:00:00	12:57:00	15.38	TON			
1/26/16	1876085543	P:76:1420 EAST MADISON	FT9T,FISCHER TRUCKING	13:50:00	14:01:00	13.58	TON	R		
1/26/16	1876085544	P:76:1420 EAST MADISON	1876-1,EVERETT SOIL GENERIC	0:00:00	14:04:00	13.68	TON			
1/26/16	1876085545	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	14:18:00	12.99	TON			
1/26/16	1876085546	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	0:00:00	14:30:00	12.36	TON			
1/26/16	1876085548	P:76:1420 EAST MADISON	FT7T,FISCHER TRUCKING	0:00:00	14:45:00	13.32	TON			
2/11/16	1876085682	P:76:1420 EAST MADISON	GR12T,GIRARD RESOURCES	13:19:00	13:41:00	30.11	TON	R		
2/11/16	1876085683	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	13:21:00	13:43:00	32.22	TON	R		
2/11/16	1876085684	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	13:30:00	13:55:00	28.78	TON	R		
2/11/16	1876085685	P:76:1420 EAST MADISON	1876-3,EVERETT SOIL GENERIC	13:38:00	14:00:00	33.84	TON	R		
2/11/16	1876085686	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	13:46:00	14:12:00	29.35	TON	R		
2/11/16	1876085687	P:76:1420 EAST MADISON	1876-4,EVERETT SOIL GENERIC	13:56:00	14:17:00	32.91	TON	R		
2/12/16	1876085691	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	8:31:00	8:42:00	22.66	TON	R		
2/12/16	1876085692	P:76:1420 EAST MADISON	GR12T,GIRARD RESOURCES	8:37:00	8:52:00	25.80	TON	R		
2/12/16	1876085693	P:76:1420 EAST MADISON	1876-1,EVERETT SOIL GENERIC	8:47:00	9:05:00	25.98	TON	R		
2/12/16	1876085695	P:76:1420 EAST MADISON	GR9T,GIRARD RESOURCES	9:18:00	9:34:00	23.86	TON	R		
2/12/16	1876085697	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	9:23:00	9:44:00	23.53	TON	R		
2/12/16	1876085699	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	10:09:00	10:25:00	25.08	TON	R		
2/12/16	1876085703	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	11:00:00	25.59	TON			
2/12/16	1876085704	P:76:1420 EAST MADISON	GR12T,GIRARD RESOURCES	0:00:00	11:30:00	30.60	TON			
2/12/16	1876085705	P:76:1420 EAST MADISON	1876-1,EVERETT SOIL GENERIC	0:00:00	11:40:00	29.35	TON			
2/12/16	1876085707	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	12:09:00	29.51	TON			
2/12/16	1876085708	P:76:1420 EAST MADISON	GR9T,GIRARD RESOURCES	0:00:00	12:14:00	27.74	TON			

Date	TicketNo	Delivery Address	Vehicle	TimeIn	TicketTime	Qty	Unit	Sh ip	C a s h	V o i d
2/12/16	1876085712	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	0:00:00	12:48:00	27.13	TON			
2/12/16	1876085714	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	13:10:00	27.23	TON			
2/16/16	1876085743	P:76:1420 EAST MADISON	GR3T,GIRARD RESOURCES	10:20:00	10:36:00	29.47	TON	R		
2/16/16	1876085745	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	10:35:00	10:58:00	26.91	TON	R		
2/16/16	1876085746	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	10:40:00	11:01:00	32.35	TON	R		
2/16/16	1876085748	P:76:1420 EAST MADISON	FT02T,FISCHER TRUCKING	11:20:00	11:40:00	30.91	TON	R		
2/16/16	1876085749	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	11:21:00	11:47:00	31.07	TON	R		
2/16/16	1876085750	P:76:1420 EAST MADISON	GR12T,GIRARD RESOURCES	0:00:00	11:49:00	0.00	TON			V
2/16/16	1876085751	P:76:1420 EAST MADISON	FT10T,FISCHER TRUCKING	11:23:00	11:53:00	32.10	TON	R		
2/16/16	1876085752	P:76:1420 EAST MADISON	1876-3,EVERETT SOIL GENERIC	11:29:00	11:55:00	30.53	TON	R		
2/16/16	1876085753	P:76:1420 EAST MADISON	FT03T, FISCHER TRUCKING	11:37:00	12:01:00	32.27	TON	R		
2/16/16	1876085755	P:76:1420 EAST MADISON	GR12T,GIRARD RESOURCES	0:00:00	12:09:00	30.93	TON			
2/16/16	1876085756	P:76:1420 EAST MADISON	GR3T,GIRARD RESOURCES	0:00:00	12:20:00	30.44	TON	R		
2/16/16	1876085757	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	12:36:00	26.50	TON			
2/16/16	1876085758	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	0:00:00	12:43:00	32.76	TON	R		
2/16/16	1876085760	P:76:1420 EAST MADISON	FT02T,FISCHER TRUCKING	0:00:00	13:14:00	30.43	TON			
2/16/16	1876085761	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	13:31:00	30.62	TON			
2/16/16	1876085762	P:76:1420 EAST MADISON	1876-4,EVERETT SOIL GENERIC	0:00:00	13:39:00	31.52	TON			
2/16/16	1876085763	P:76:1420 EAST MADISON	FT10T,FISCHER TRUCKING	0:00:00	13:46:00	33.16	TON	R		
2/16/16	1876085764	P:76:1420 EAST MADISON	1876-3,EVERETT SOIL GENERIC	0:00:00	13:48:00	27.87	TON			
2/16/16	1876085766	P:76:1420 EAST MADISON	GR12T,GIRARD RESOURCES	0:00:00	13:54:00	30.47	TON			
2/16/16	1876085767	P:76:1420 EAST MADISON	GR3T,GIRARD RESOURCES	0:00:00	14:22:00	31.93	TON	R		
2/16/16	1876085768	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	14:26:00	26.16	TON			
2/16/16	1876085771	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	0:00:00	14:45:00	31.28	TON			
2/16/16	1876085772	P:76:1420 EAST MADISON	FT02T,FISCHER TRUCKING	0:00:00	15:14:00	31.42	TON			
2/16/16	1876085773	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	15:36:00	27.72	TON			

Date	TicketNo	Delivery Address	Vehicle	TimeIn	TicketTime	Qty	Unit	Sh ip	C a s h	V o i d
2/16/16	1876085774	P:76:1420 EAST MADISON	1876-4,EVERETT SOIL GENERIC	0:00:00	15:43:00	31.88	TON	R		
2/17/16	1876085776	P:76:1420 EAST MADISON	GR2T,GIRARD RESOURCES	7:54:00	8:12:00	31.44	TON	R		
2/17/16	1876085777	P:76:1420 EAST MADISON	GR3T,GIRARD RESOURCES	8:23:00	8:34:00	27.68	TON	R		
2/17/16	1876085778	P:76:1420 EAST MADISON	GR12T,GIRARD RESOURCES	8:25:00	8:35:00	28.17	TON	R		
2/17/16	1876085779	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	8:31:00	8:43:00	28.56	TON	R		
2/17/16	1876085780	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	8:51:00	9:05:00	29.32	TON	R		
2/17/16	1876085781	P:76:1420 EAST MADISON	1876-1,EVERETT SOIL GENERIC	8:53:00	9:11:00	29.59	TON	R		
2/17/16	1876085782	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	8:55:00	9:15:00	31.09	TON	R		
2/17/16	1876085783	P:76:1420 EAST MADISON	1876-3,EVERETT SOIL GENERIC	9:02:00	9:18:00	28.75	TON	R		
2/17/16	1876085787	P:76:1420 EAST MADISON	GR3T,GIRARD RESOURCES	0:00:00	10:27:00	27.85	TON			
2/17/16	1876085788	P:76:1420 EAST MADISON	GR12T,GIRARD RESOURCES	0:00:00	10:30:00	27.32	TON			
2/17/16	1876085789	P:76:1420 EAST MADISON	GR2T,GIRARD RESOURCES	0:00:00	10:32:00	29.30	TON			
2/17/16	1876085790	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	10:42:00	28.19	TON			
2/17/16	1876085791	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	0:00:00	11:07:00	29.66	TON			
2/17/16	1876085793	P:76:1420 EAST MADISON	1876-3,EVERETT SOIL GENERIC	0:00:00	11:09:00	29.86	TON			
2/17/16	1876085794	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	11:13:00	28.85	TON			
2/17/16	1876085796	P:76:1420 EAST MADISON	1876-1,EVERETT SOIL GENERIC	0:00:00	11:40:00	29.24	TON			
2/19/16	1876085820	P:76:1420 EAST MADISON	GR3T,GIRARD RESOURCES	8:08:00	8:29:00	29.43	TON	R		
2/19/16	1876085822	P:76:1420 EAST MADISON	1876-9,EVERETT SOIL GENERIC	8:35:00	8:50:00	31.67	TON	R		
2/19/16	1876085823	P:76:1420 EAST MADISON	1876-10,EVERETT SOIL GENERIC	8:37:00	8:52:00	29.22	TON	R		
2/19/16	1876085824	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	8:44:00	9:02:00	26.97	TON	R		
2/19/16	1876085827	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	9:00:00	9:12:00	32.73	TON	R		
2/19/16	1876085838	P:76:1420 EAST MADISON	GR3T,GIRARD RESOURCES	0:00:00	10:39:00	28.22	TON			
2/19/16	1876085839	P:76:1420 EAST MADISON	GR2T,GIRARD RESOURCES	10:25:00	10:51:00	26.33	TON	R		
2/19/16	1876085840	P:76:1420 EAST MADISON	1876-9,EVERETT SOIL GENERIC	0:00:00	10:53:00	28.50	TON			
2/19/16	1876085841	P:76:1420 EAST MADISON	1876-10,EVERETT SOIL GENERIC	0:00:00	10:59:00	29.76	TON			

Date	TicketNo	Delivery Address	Vehicle	TimeIn	TicketTime	Qty	Unit	Ship	Cash	Void
2/19/16	1876085842	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	11:02:00	0.00	TON			V
2/22/16	1876085883	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	8:45:00	9:05:00	27.34	TON	R		
2/22/16	1876085885	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	8:56:00	9:10:00	30.52	TON	R		
2/22/16	1876085886	P:76:1420 EAST MADISON	GR2T,GIRARD RESOURCES	8:58:00	9:18:00	32.79	TON	R		
2/22/16	1876085887	P:76:1420 EAST MADISON	1876-4,EVERETT SOIL GENERIC	9:06:00	9:25:00	32.39	TON	R		
2/22/16	1876085890	P:76:1420 EAST MADISON	1876-5,EVERETT SOIL GENERIC	9:33:00	9:47:00	31.46	TON	R		
2/22/16	1876085892	P:76:1420 EAST MADISON	1876-9,EVERETT SOIL GENERIC	9:42:00	10:01:00	33.60	TON	R		
2/22/16	1876085893	P:76:1420 EAST MADISON	1876-10,EVERETT SOIL GENERIC	0:00:00	10:18:00	32.54	TON	R		
2/22/16	1876085896	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	10:57:00	32.08	TON			
2/22/16	1876085897	P:76:1420 EAST MADISON	1876-4,EVERETT SOIL GENERIC	0:00:00	11:05:00	33.06	TON			
2/22/16	1876085899	P:76:1420 EAST MADISON	1876-5,EVERETT SOIL GENERIC	0:00:00	11:28:00	30.11	TON			
2/22/16	1876085900	P:76:1420 EAST MADISON	1876-6,EVERETT SOIL GENERIC	0:00:00	11:42:00	34.21	TON	R		
2/22/16	1876085901	P:76:1420 EAST MADISON	1876-9,EVERETT SOIL GENERIC	0:00:00	11:47:00	33.97	TON	R		
2/22/16	1876085904	P:76:1420 EAST MADISON	1876-10,EVERETT SOIL GENERIC	0:00:00	12:02:00	34.61	TON	R		
2/22/16	1876085905	P:76:1420 EAST MADISON	GR2T,GIRARD RESOURCES	0:00:00	12:04:00	31.05	TON	R		
2/22/16	1876085908	P:76:1420 EAST MADISON	1876-4,EVERETT SOIL GENERIC	0:00:00	13:04:00	31.68	TON			
2/22/16	1876085909	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	13:10:00	25.48	TON			
2/22/16	1876085910	P:76:1420 EAST MADISON	1876-5,EVERETT SOIL GENERIC	0:00:00	13:19:00	31.17	TON			
2/22/16	1876085911	P:76:1420 EAST MADISON	1876-6,EVERETT SOIL GENERIC	0:00:00	13:40:00	28.73	TON			
2/22/16	1876085912	P:76:1420 EAST MADISON	1876-9,EVERETT SOIL GENERIC	0:00:00	13:49:00	24.98	TON			
2/22/16	1876085913	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	14:51:00	29.27	TON			
2/24/16	1876085944	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	9:02:00	9:17:00	27.99	TON	R		
2/24/16	1876085946	P:76:1420 EAST MADISON	1876-9,EVERETT SOIL GENERIC	0:00:00	9:28:00	32.40	TON	R		
2/24/16	1876085947	P:76:1420 EAST MADISON	1876-9,EVERETT SOIL GENERIC	0:00:00	9:29:00	8.52	TON			
2/24/16	1876085957	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	12:42:00	31.46	TON			
2/24/16	1876085959	P:76:1420 EAST MADISON	1876-9,EVERETT SOIL GENERIC	0:00:00	12:47:00	33.47	TON	R		

Date	TicketNo	Delivery Address	Vehicle	TimeIn	TicketTime	Qty	Unit	Sh ip	C a s h	V o i d
2/25/16	1876085972	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	9:20:00	9:38:00	28.62	TON	R		
2/25/16	1876085975	P:76:1420 EAST MADISON	GR2T,GIRARD RESOURCES	9:42:00	9:57:00	31.72	TON	R		
2/25/16	1876085985	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	12:50:00	28.39	TON			
2/25/16	1876085986	P:76:1420 EAST MADISON	GR2T,GIRARD RESOURCES	0:00:00	12:51:00	29.91	TON			
2/25/16	1876085992	P:76:1420 EAST MADISON	GR2T,GIRARD RESOURCES	0:00:00	16:08:00	27.21	TON			
2/25/16	1876085993	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	16:12:00	27.63	TON			
2/26/16	1876085994	P:76:1420 EAST MADISON	GR12T,GIRARD RESOURCES	7:47:00	8:00:00	26.71	TON	R		
2/26/16	1876085995	P:76:1420 EAST MADISON	S144TF,SANTANA TRUCKING	7:57:00	8:09:00	27.91	TON	R		
2/26/16	1876085996	P:76:1420 EAST MADISON	GR2T,GIRARD RESOURCES	7:40:00	8:13:00	25.52	TON	R		
2/26/16	1876085997	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	8:15:00	0.00	TON			V
2/26/16	1876085998	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	8:27:00	27.12	TON			
2/26/16	1876085999	P:76:1420 EAST MADISON	1876-1,EVERETT SOIL GENERIC	8:19:00	8:40:00	38.93	TON	R		
2/26/16	1876086000	P:76:1420 EAST MADISON	1875-2,EVERETT GENERIC	8:21:00	8:42:00	0.00	TON	R		V
2/26/16	1876086001	P:76:1420 EAST MADISON	1876-3,EVERETT SOIL GENERIC	8:24:00	8:46:00	25.74	TON	R		
2/26/16	1876086002	P:76:1420 EAST MADISON	SS127,SILVER STREAK	8:26:00	8:48:00	26.31	TON	R		
2/26/16	1876086003	P:76:1420 EAST MADISON	SS108,SILVER STREAK	8:28:00	8:50:00	27.75	TON	R		
2/26/16	1876086004	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	8:29:00	8:51:00	27.31	TON	R		
2/26/16	1876086005	P:76:1420 EAST MADISON	SS175T,SILVER STREAK TRUCKING	8:37:00	8:53:00	30.25	TON	R		
2/26/16	1876086006	P:76:1420 EAST MADISON	SS37T,SILVER STREAK	8:41:00	9:04:00	26.73	TON	R		
2/26/16	1876086007	P:76:1420 EAST MADISON	SS107,SILVER STREAK	8:43:00	9:08:00	26.71	TON	R		
2/26/16	1876086008	P:76:1420 EAST MADISON	SS41T,SILVER STREAK	8:45:00	9:09:00	28.69	TON	R		
2/26/16	1876086009	P:76:1420 EAST MADISON	SS97T,SILVER STREAK	8:47:00	9:15:00	30.08	TON	R		
2/26/16	1876086010	P:76:1420 EAST MADISON	SS93,SILVER STREAK	8:49:00	9:17:00	28.44	TON	R		
2/26/16	1876086011	P:76:1420 EAST MADISON	1876-4,EVERETT SOIL GENERIC	8:53:00	9:22:00	29.68	TON	R		
2/26/16	1876086012	P:76:1420 EAST MADISON	CTI410,CITY TRANSFER	9:03:00	9:24:00	26.59	TON	R		
2/26/16	1876086013	P:76:1420 EAST MADISON	CTI426CITY TRANSFER	9:14:00	9:28:00	26.02	TON	R		

Date	TicketNo	Delivery Address	Vehicle	TimeIn	TicketTime	Qty	Unit	Sh ip	C a s h	V o i d
2/26/16	1876086014	P:76:1420 EAST MADISON	CTI417,CITY TRANSFER	9:16:00	9:32:00	26.41	TON	R		
2/26/16	1876086016	P:76:1420 EAST MADISON	S144TF,SANTANA TRUCKING	0:00:00	10:04:00	26.52	TON			
2/26/16	1876086017	P:76:1420 EAST MADISON	GR16T,GIRARD RESOURCES	10:06:00	10:23:00	25.86	TON	R		
2/26/16	1876086018	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	10:33:00	28.44	TON			
2/26/16	1876086019	P:76:1420 EAST MADISON	SS175T,SILVER STREAK TRUCKINC	0:00:00	10:44:00	28.94	TON			
2/26/16	1876086020	P:76:1420 EAST MADISON	GR12T,GIRARD RESOURCES	0:00:00	10:57:00	26.87	TON			
2/26/16	1876086021	P:76:1420 EAST MADISON	GR2T,GIRARD RESOURCES	0:00:00	10:59:00	29.37	TON			
2/26/16	1876086022	P:76:1420 EAST MADISON	SS41T,SILVER STREAK	0:00:00	11:00:00	30.00	TON			
2/26/16	1876086023	P:76:1420 EAST MADISON	SS93,SILVER STREAK	0:00:00	11:07:00	29.86	TON			
2/26/16	1876086024	P:76:1420 EAST MADISON	CTI410,CITY TRANSFER	0:00:00	11:10:00	27.91	TON			
2/26/16	1876086025	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	11:12:00	30.52	TON			
2/26/16	1876086026	P:76:1420 EAST MADISON	1876-4,EVERETT SOIL GENERIC	0:00:00	11:15:00	30.18	TON			
2/26/16	1876086027	P:76:1420 EAST MADISON	CTI426CITY TRANSFER	0:00:00	11:16:00	28.89	TON			
2/26/16	1876086028	P:76:1420 EAST MADISON	1876-3,EVERETT SOIL GENERIC	0:00:00	11:21:00	29.61	TON			
2/26/16	1876086029	P:76:1420 EAST MADISON	1876-1,EVERETT SOIL GENERIC	0:00:00	11:37:00	26.89	TON			
2/26/16	1876086030	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	0:00:00	11:39:00	27.89	TON			
2/26/16	1876086031	P:76:1420 EAST MADISON	SS127,SILVER STREAK	0:00:00	11:43:00	28.39	TON			
2/26/16	1876086032	P:76:1420 EAST MADISON	SS108,SILVER STREAK	0:00:00	11:45:00	29.14	TON			
2/26/16	1876086033	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	0:00:00	11:48:00	37.76	TON	R		
2/26/16	1876086034	P:76:1420 EAST MADISON	SS37T,SILVER STREAK	0:00:00	11:52:00	33.35	TON	R		
2/26/16	1876086035	P:76:1420 EAST MADISON	S144TF,SANTANA TRUCKING	0:00:00	11:56:00	25.11	TON			
2/26/16	1876086036	P:76:1420 EAST MADISON	SS107,SILVER STREAK	0:00:00	12:00:00	30.31	TON			
2/26/16	1876086037	P:76:1420 EAST MADISON	SS97T,SILVER STREAK	0:00:00	12:02:00	25.04	TON			
2/26/16	1876086038	P:76:1420 EAST MADISON	GR16T,GIRARD RESOURCES	0:00:00	12:23:00	27.95	TON			
2/26/16	1876086039	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	12:29:00	27.05	TON			
2/26/16	1876086040	P:76:1420 EAST MADISON	CTI412,CITY TRANSFER	12:34:00	12:45:00	26.70	TON	R		

Date	TicketNo	Delivery Address	Vehicle	TimeIn	TicketTime	Qty	Unit	S h i p	C a s h	V o i d
2/26/16	1876086041	P:76:1420 EAST MADISON	SS175T,SILVER STREAK TRUCKINC	0:00:00	12:50:00	30.12	TON			
2/26/16	1876086042	P:76:1420 EAST MADISON	SS41T,SILVER STREAK	0:00:00	13:09:00	30.85	TON			
2/26/16	1876086043	P:76:1420 EAST MADISON	CTI410,CITY TRANSFER	0:00:00	13:13:00	26.85	TON			
2/26/16	1876086044	P:76:1420 EAST MADISON	CTI426CITY TRANSFER	0:00:00	13:26:00	29.29	TON			
2/26/16	1876086045	P:76:1420 EAST MADISON	1876-4,EVERETT SOIL GENERIC	0:00:00	13:30:00	28.43	TON			
2/26/16	1876086046	P:76:1420 EAST MADISON	SS93,SILVER STREAK	0:00:00	13:34:00	29.20	TON			
2/26/16	1876086047	P:76:1420 EAST MADISON	1876-3,EVERETT SOIL GENERIC	0:00:00	13:37:00	27.77	TON			
2/26/16	1876086048	P:76:1420 EAST MADISON	GR2T,GIRARD RESOURCES	0:00:00	13:57:00	26.40	TON			
2/26/16	1876086049	P:76:1420 EAST MADISON	GR12T,GIRARD RESOURCES	0:00:00	14:02:00	25.10	TON			
2/26/16	1876086050	P:76:1420 EAST MADISON	S144TF,SANTANA TRUCKING	0:00:00	14:06:00	25.34	TON			
2/26/16	1876086052	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	14:17:00	21.24	TON			
2/26/16	1876086053	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	14:42:00	24.75	TON			
2/26/16	1876086054	P:76:1420 EAST MADISON	1876-1,EVERETT SOIL GENERIC	0:00:00	14:54:00	21.88	TON			
2/26/16	1876086055	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	0:00:00	14:56:00	26.80	TON			
2/26/16	1876086056	P:76:1420 EAST MADISON	SS127,SILVER STREAK	0:00:00	14:59:00	25.15	TON			
2/26/16	1876086057	P:76:1420 EAST MADISON	GR16T,GIRARD RESOURCES	0:00:00	15:01:00	27.89	TON			
2/26/16	1876086058	P:76:1420 EAST MADISON	SS108,SILVER STREAK	0:00:00	15:03:00	26.54	TON			
2/26/16	1876086059	P:76:1420 EAST MADISON	SS175T,SILVER STREAK TRUCKINC	0:00:00	15:11:00	30.85	TON			
2/26/16	1876086060	P:76:1420 EAST MADISON	CTI412,CITY TRANSFER	0:00:00	15:13:00	27.55	TON			
2/26/16	1876086061	P:76:1420 EAST MADISON	SS37T,SILVER STREAK	0:00:00	15:16:00	22.88	TON			
2/29/16	1876086089	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	13:54:00	14:16:00	26.38	TON	R		
3/1/16	1876086097	P:76:1420 EAST MADISON	GR3T,GIRARD RESOURCES	9:53:00	10:07:00	25.26	TON	R		
3/1/16	1876086099	P:76:1420 EAST MADISON	1876-9,EVERETT SOIL GENERIC	10:17:00	10:30:00	29.57	TON	R		
3/1/16	1876086102	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	11:39:00	11:59:00	25.79	TON	R		
3/1/16	1876086103	P:76:1420 EAST MADISON	1876-3,EVERETT SOIL GENERIC	11:41:00	12:00:00	26.27	TON	R		
3/1/16	1876086104	P:76:1420 EAST MADISON	SS37T,SILVER STREAK	11:50:00	12:35:00	23.86	TON	R		



Date	TicketNo	Delivery Address	Vehicle	TimeIn	TicketTime	Qty	Unit	S h i p	C a s h	V o i d
3/3/16	1876086150	P:76:1420 EAST MADISON	GR12T,GIRARD RESOURCES	12:38:00	12:51:00	27.71	TON	R		
3/3/16	1876086153	P:76:1420 EAST MADISON	1876-1,EVERETT SOIL GENERIC	13:08:00	13:23:00	25.95	TON	R		
3/3/16	1876086155	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	13:12:00	13:32:00	26.87	TON	R		
3/3/16	1876086158	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	13:22:00	13:41:00	28.47	TON	R		
3/3/16	1876086161	P:76:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	13:37:00	14:00:00	30.64	TON	R		
3/3/16	1876086162	P:76:1420 EAST MADISON	1876-3,EVERETT SOIL GENERIC	13:46:00	14:02:00	28.73	TON	R		
3/3/16	1876086164	P:76:1420 EAST MADISON	GR16T,GIRARD RESOURCES	13:57:00	14:15:00	30.15	TON	R		
3/3/16	1876086168	P:76:1420 EAST MADISON	1876-1,EVERETT SOIL GENERIC	0:00:00	15:22:00	28.63	TON			
3/3/16	1876086169	P:76:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	0:00:00	15:38:00	28.86	TON			
3/15/16	1876086291	P:76:1420 EAST MADISON	GR12T,GIRARD RESOURCES	0:00:00	11:05:00	27.41	TON			
3/15/16	1876086292	P:76:1420 EAST MADISON	GR3T,GIRARD RESOURCES	0:00:00	11:10:00	25.42	TON			
3/15/16	1876086293	P:76:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	11:12:00	24.65	TON			
3/15/16	1876086294	P:76:1420 EAST MADISON	FR23,FRULING INC	0:00:00	11:56:00	27.35	TON			
3/15/16	1876086296	P:76:1420 EAST MADISON	FR1T,FRUHLING INC	11:54:00	12:18:00	29.55	TON	R		
<b>Product Totals</b>	<b>215</b>					<b>Qty</b>	<b>5,822.95</b>	<b>TON</b>		
<b>Order Totals</b>	<b>215</b>					<b>Qty</b>	<b>5,822.95</b>	<b>TON</b>		
<b>Customer Totals</b>	<b>215</b>					<b>Qty</b>	<b>5,822.95</b>	<b>TON</b>		
<b>Grand Total</b>	<b>215</b>					<b>Qty</b>	<b>5,822.95</b>	<b>TON</b>		



# Ticket List By Customer\Order\Product



Date From 12/21/2015 To 03/17/2016  
 Location(s) 1875  
 Order: 41053231

Date	TicketNo	Delivery Address	Vehicle	TimeIn	TicketTime	Qty	Unit	S h i p	C a s h	V o i d
<b>Scale Tickets</b>										
<b>1420 EAST MADISON STREET LLC</b>										
<b>41053231</b>										
<b>1192506</b>										
2/19/16	1875446825	P:75:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	11:04:00	30.30	TON			
2/19/16	1875446827	P:75:1420 EAST MADISON	1876-2,EVERETT SOIL GENERIC	0:00:00	11:16:00	31.11	TON			
2/19/16	1875446843	P:75:1420 EAST MADISON	GR2T,GIRARD RESOURCES	0:00:00	12:43:00	29.70	TON	R		
2/19/16	1875446845	P:75:1420 EAST MADISON	GR3T,GIRARD RESOURCES	0:00:00	13:02:00	28.51	TON			
2/22/16	1875446896	P:75:1420 EAST MADISON	1876-6,EVERETT SOIL GENERIC	9:38:00	9:56:00	32.02	TON	R		
3/14/16	1875448356	P:75:1420 EAST MADISON	GR13T,GIRARD RESOURCES	11:45:00	11:53:00	28.37	TON	R		
3/14/16	1875448367	P:75:1420 EAST MADISON	FR1T,FRUHLING INC	13:07:00	13:17:00	28.95	TON	R		
3/14/16	1875448369	P:75:1420 EAST MADISON	FR13T,FRUHLING INC	13:09:00	13:20:00	30.17	TON	R		
3/14/16	1875448372	P:75:1420 EAST MADISON	FR23,FRULING INC	13:23:00	13:32:00	28.10	TON	R		
3/14/16	1875448373	P:75:1420 EAST MADISON	FR14,FRULING INC	13:26:00	13:37:00	27.54	TON	R		
3/14/16	1875448375	P:75:1420 EAST MADISON	GR13T,GIRARD RESOURCES	0:00:00	13:45:00	29.63	TON			
3/14/16	1875448376	P:75:1420 EAST MADISON	FR6T,FRUHLING INC	13:28:00	13:48:00	29.93	TON	R		
3/14/16	1875448377	P:75:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	13:34:00	13:50:00	28.64	TON	R		
3/14/16	1875448378	P:75:1420 EAST MADISON	GR11T,GIRARD RESOURCES	13:35:00	13:52:00	27.60	TON	R		
3/14/16	1875448379	P:75:1420 EAST MADISON	GR12T,GIRARD RESOURCES	13:36:00	13:53:00	28.35	TON	R		
3/15/16	1875448396	P:75:1420 EAST MADISON	GR15SD,GIRARD RESOURCES	8:01:00	8:08:00	27.88	TON	R		
3/15/16	1875448398	P:75:1420 EAST MADISON	GR12T,GIRARD RESOURCES	8:25:00	8:34:00	28.61	TON	R		
3/15/16	1875448403	P:75:1420 EAST MADISON	GR3T,GIRARD RESOURCES	8:38:00	8:53:00	27.59	TON	R		
3/15/16	1875448405	P:75:1420 EAST MADISON	GR13T,GIRARD RESOURCES	8:55:00	9:04:00	30.48	TON	R		

Date	TicketNo	Delivery Address	Vehicle	TimeIn	TicketTime	Qty	Unit	S h i p	C a s h	V o i d
3/15/16	1875448413	P:75:1420 EAST MADISON	FR1T,FRUHLING INC	9:32:00	9:45:00	25.17	TON	R		
3/15/16	1875448414	P:75:1420 EAST MADISON	FR23,FRULING INC	9:33:00	9:47:00	31.14	TON	R		
<b>Product Totals</b>	<b>21</b>				<b>Qty</b>	<b>609.79</b>	<b>TON</b>			
<b>Order Totals</b>	<b>21</b>				<b>Qty</b>	<b>609.79</b>	<b>TON</b>			
<b>Customer Totals</b>	<b>21</b>				<b>Qty</b>	<b>609.79</b>	<b>TON</b>			
<b>Grand Total</b>		<b>21</b>			<b>Qty</b>	<b>609.79</b>	<b>TON</b>			

**APPENDIX C**  
**LABORATORY ANALYTICAL REPORTS FOR SOIL**

***Friedman & Bruya, Inc. #510084***

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

October 12, 2015

Chuck Cacek, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on October 6, 2015 from the SOU\_1002-003\_20151006, F&BI 510084 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Jonathan Loeffler  
SOU1012R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 6, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20151006, F&BI 510084 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
510084 -01	TP04NSW-10
510084 -02	TP04NSW-13
510084 -03	TP04NSW-16
510084 -04	TP04SSW-10
510084 -05	TP04SSW-15
510084 -06	TP04SSW-Composite
510084 -07	TP04NSW-Composite
510084 -08	TP05NSW-15
510084 -09	TP05SSW-18
510084 -10	TP05-Composite

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/15  
 Date Received: 10/06/15  
 Project: SOU\_1002-003\_20151006, F&BI 510084  
 Date Extracted: 10/07/15  
 Date Analyzed: 10/07/15

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
 FOR BENZENE, TOLUENE, ETHYLBENZENE,  
 XYLENES AND TPH AS GASOLINE  
 USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
TP04NSW-10 510084-01	<0.02	<0.02	0.17	0.35	150	95
TP04NSW-13 510084-02	<0.02	<0.02	0.035	0.14	73	93
TP04SSW-10 510084-04	<0.02	<0.02	0.085	0.25	120	95
TP04SSW-15 510084-05	<0.02	<0.02	0.24	0.46	190	96
TP05NSW-15 510084-08	<0.02	<0.02	<0.02	<0.06	33	92
TP05SSW-18 510084-09	<0.02	<0.02	<0.02	<0.06	43	93
Method Blank 05-2046 MB	<0.02	<0.02	<0.02	<0.06	<2	89



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/15  
Date Received: 10/06/15  
Project: SOU\_1002-003\_20151006, F&BI 510084  
Date Extracted: 10/07/15  
Date Analyzed: 10/07/15

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> (% Recovery) (Limit 56-165)
TP04NSW-10 510084-01	1,600	<250	100
TP04NSW-13 510084-02	1,100	<250	101
TP04SSW-10 510084-04	1,700	<250	106
TP04SSW-15 510084-05	2,200	<250	107
TP05NSW-15 510084-08	380	<250	106
TP05SSW-18 510084-09	480	420	104
Method Blank 05-2064 MB	<50	<250	95

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID:	TP04SSW-Composite	Client:	SoundEarth Strategies
Date Received:	10/06/15	Project:	SOU_1002-003_ 20151006
Date Extracted:	10/07/15	Lab ID:	510084-06
Date Analyzed:	10/07/15	Data File:	510084-06.020
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	93	60	125
Holmium	100	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	12.2
Cadmium	<1
Chromium	6.23
Lead	1.47
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	TP05-Composite	Client:	SoundEarth Strategies
Date Received:	10/06/15	Project:	SOU_1002-003_ 20151006
Date Extracted:	10/07/15	Lab ID:	510084-10
Date Analyzed:	10/07/15	Data File:	510084-10.021
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	92	60	125
Indium	92	60	125
Holmium	98	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	11.8
Cadmium	<1
Chromium	5.37
Lead	1.10
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_1002-003_20151006
Date Extracted:	10/07/15	Lab ID:	I5-571 mb2
Date Analyzed:	10/07/15	Data File:	I5-571 mb2.019
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	95	60	125
Holmium	101	60	125

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/15

Date Received: 10/06/15

Project: SOU\_1002-003\_20151006, F&BI 510084

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE,  
XYLENES, AND TPH AS GASOLINE  
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	0.5	93	87	69-120	7
Toluene	mg/kg (ppm)	0.5	96	91	70-117	5
Ethylbenzene	mg/kg (ppm)	0.5	95	92	65-123	3
Xylenes	mg/kg (ppm)	1.5	92	90	66-120	2
Gasoline	mg/kg (ppm)	20	100	100	71-131	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/15

Date Received: 10/06/15

Project: SOU\_1002-003\_20151006, F&BI 510084

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 510084-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	1,500	121	110	63-146	10

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	104	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/15

Date Received: 10/06/15

Project: SOU\_1002-003\_20151006, F&BI 510084

**QUALITY ASSURANCE RESULTS  
FOR THE ANALYSIS OF SOIL/SOLID SAMPLES  
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 510063-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	2.40	99	95	67-121	4
Barium	mg/kg (ppm)	50	30.5	109	113	74-135	4
Cadmium	mg/kg (ppm)	10	<1	105	101	88-121	4
Chromium	mg/kg (ppm)	50	5.58	92	91	57-128	1
Lead	mg/kg (ppm)	50	5.33	103	98	59-148	5
Mercury	mg/kg (ppm)	10	<1	102	100	50-150	2
Selenium	mg/kg (ppm)	5	<1	87	85	55-130	2
Silver	mg/kg (ppm)	10	<1	94	91	41-139	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	99	83-113
Barium	mg/kg (ppm)	50	106	85-116
Cadmium	mg/kg (ppm)	10	105	85-114
Chromium	mg/kg (ppm)	50	101	78-121
Lead	mg/kg (ppm)	50	105	80-120
Mercury	mg/kg (ppm)	10	103	70-130
Selenium	mg/kg (ppm)	5	100	87-117
Silver	mg/kg (ppm)	10	94	42-142

**Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

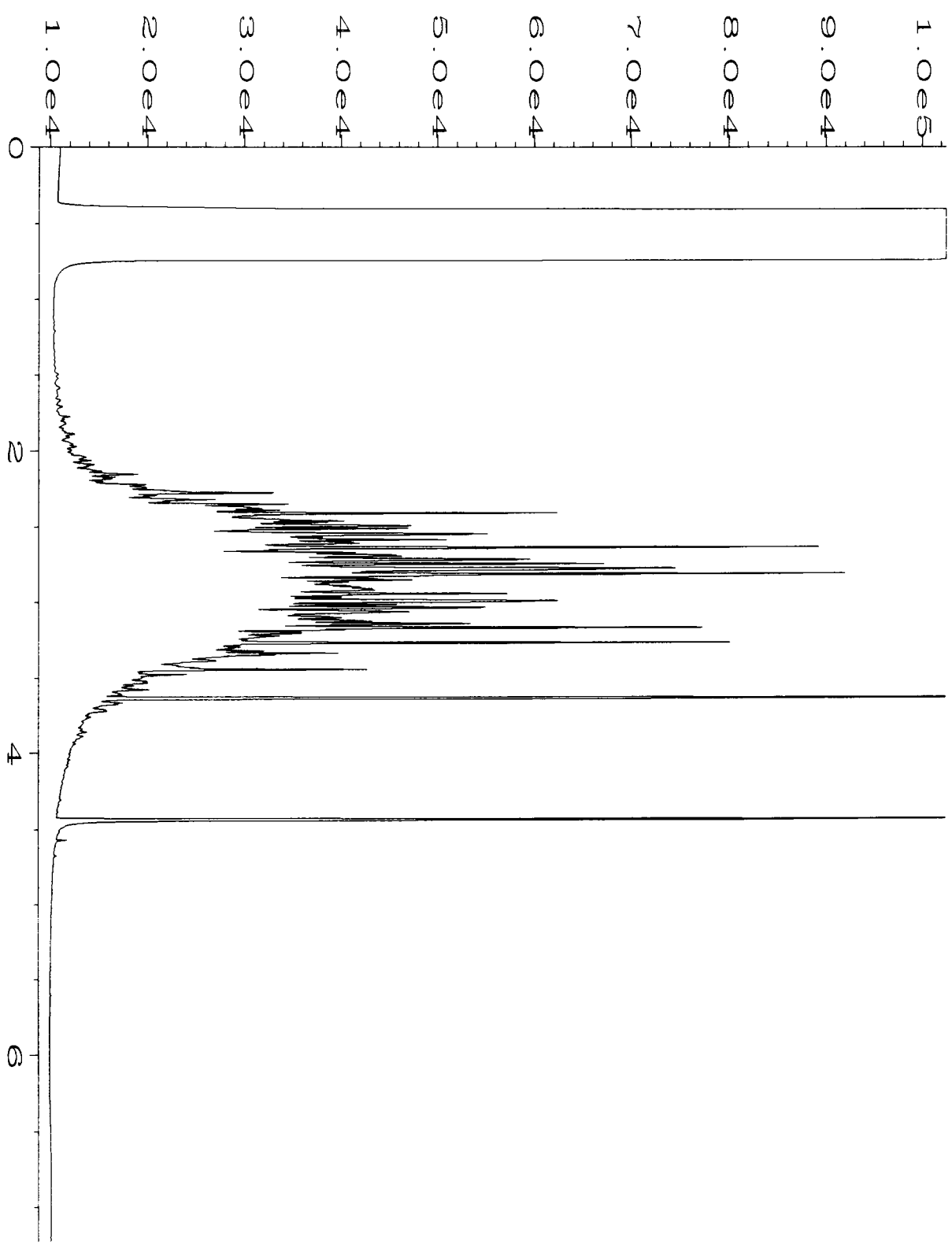


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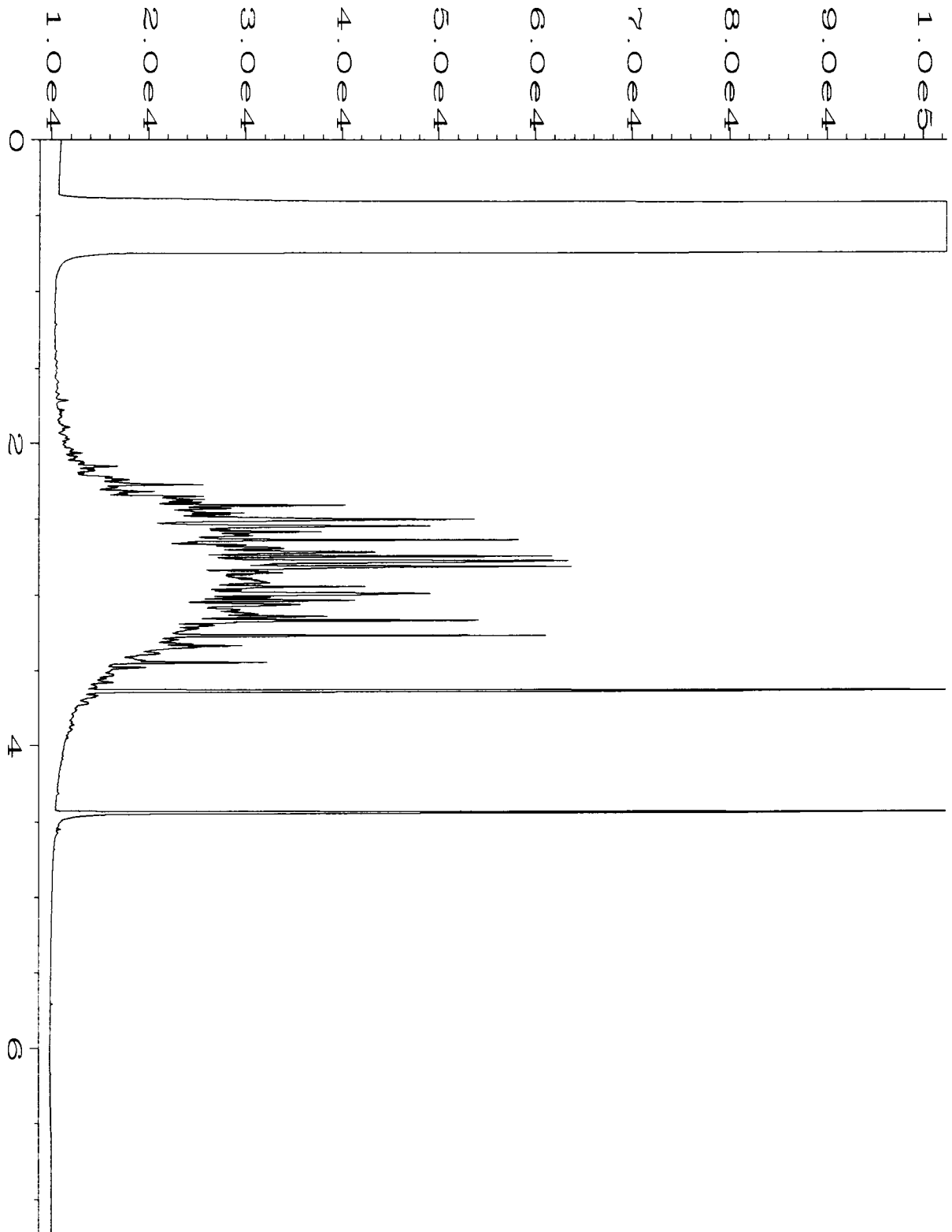
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Instrument	: GC1	Injection Number	: 1
Sample Name	: 510084-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 07 Oct 15 10:08 AM	Analysis Method	: DX.MTH
Report Created on:	08 Oct 15 10:38 AM		

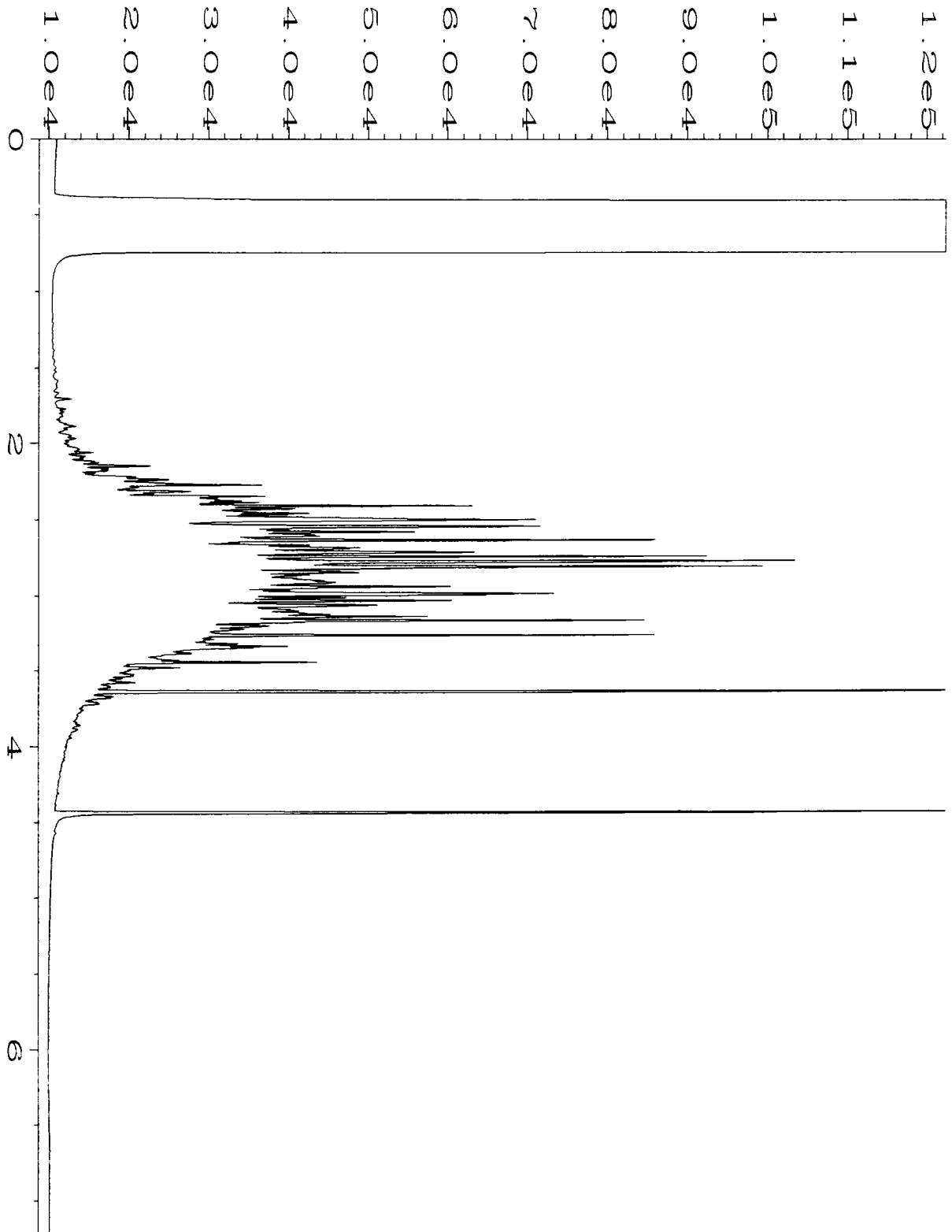
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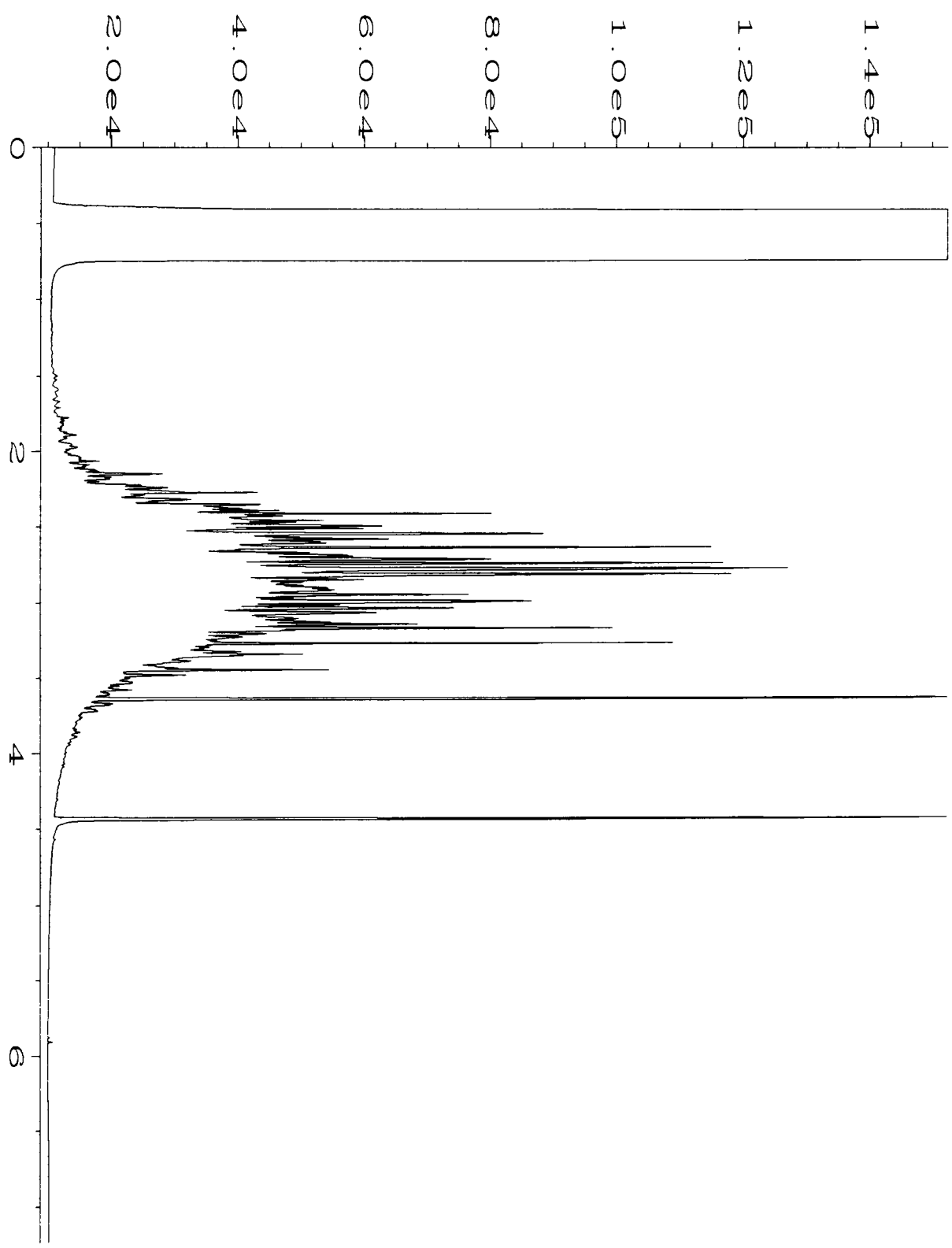
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Run Time Bar Code:		Instrument Method:	DX.MTH
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Report Created on:	08 Oct 15 10:38 AM		

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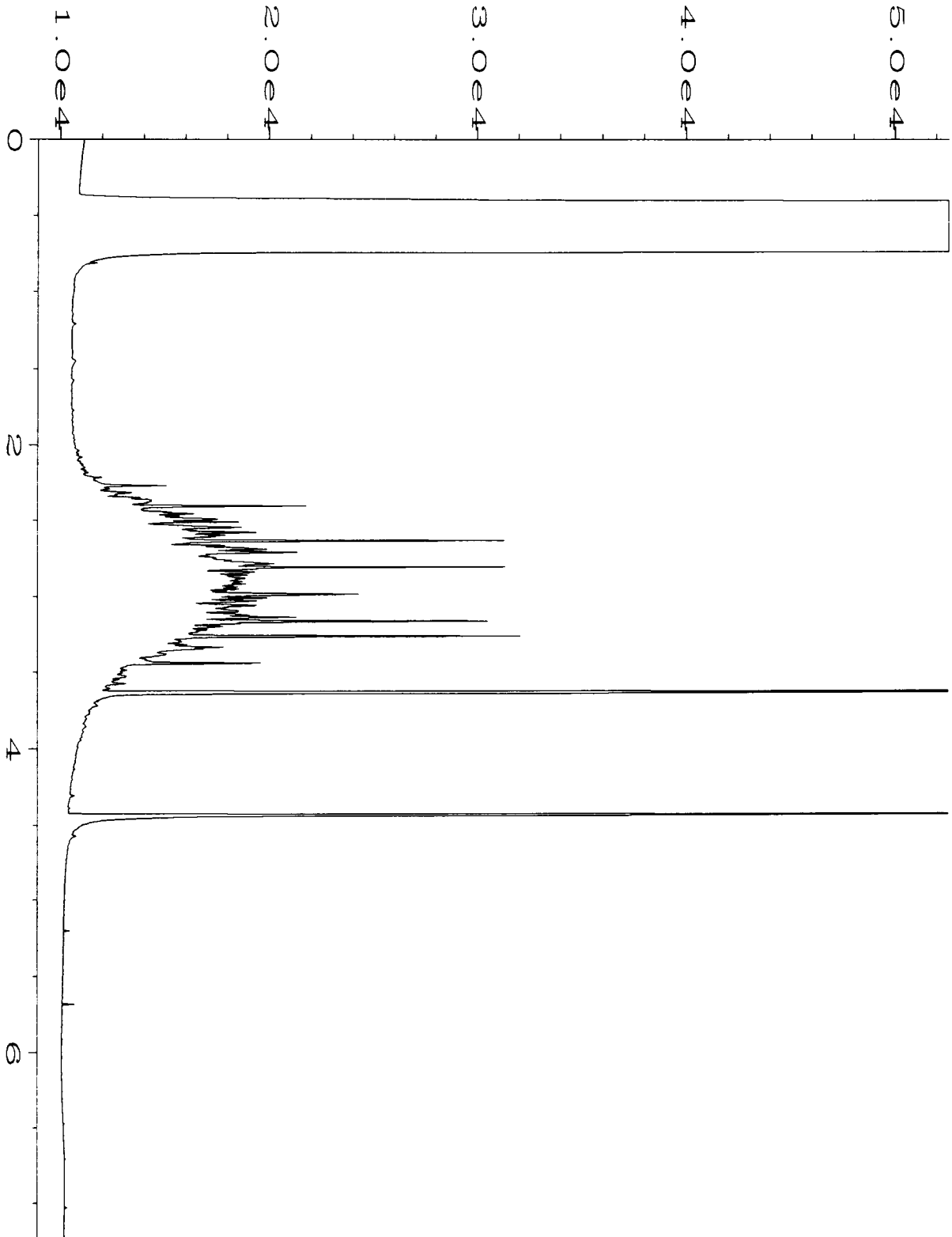
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Analysis Method : DX.MTH

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Operator	: mwdl	Vial Number	: 13
Instrument	: GC1	Injection Number	: 1
Sample Name	: 510084-05	Sequence Line	: 3
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 07 Oct 15 10:41 AM	Analysis Method	: DX.MTH
Report Created on:	: 08 Oct 15 10:39 AM		

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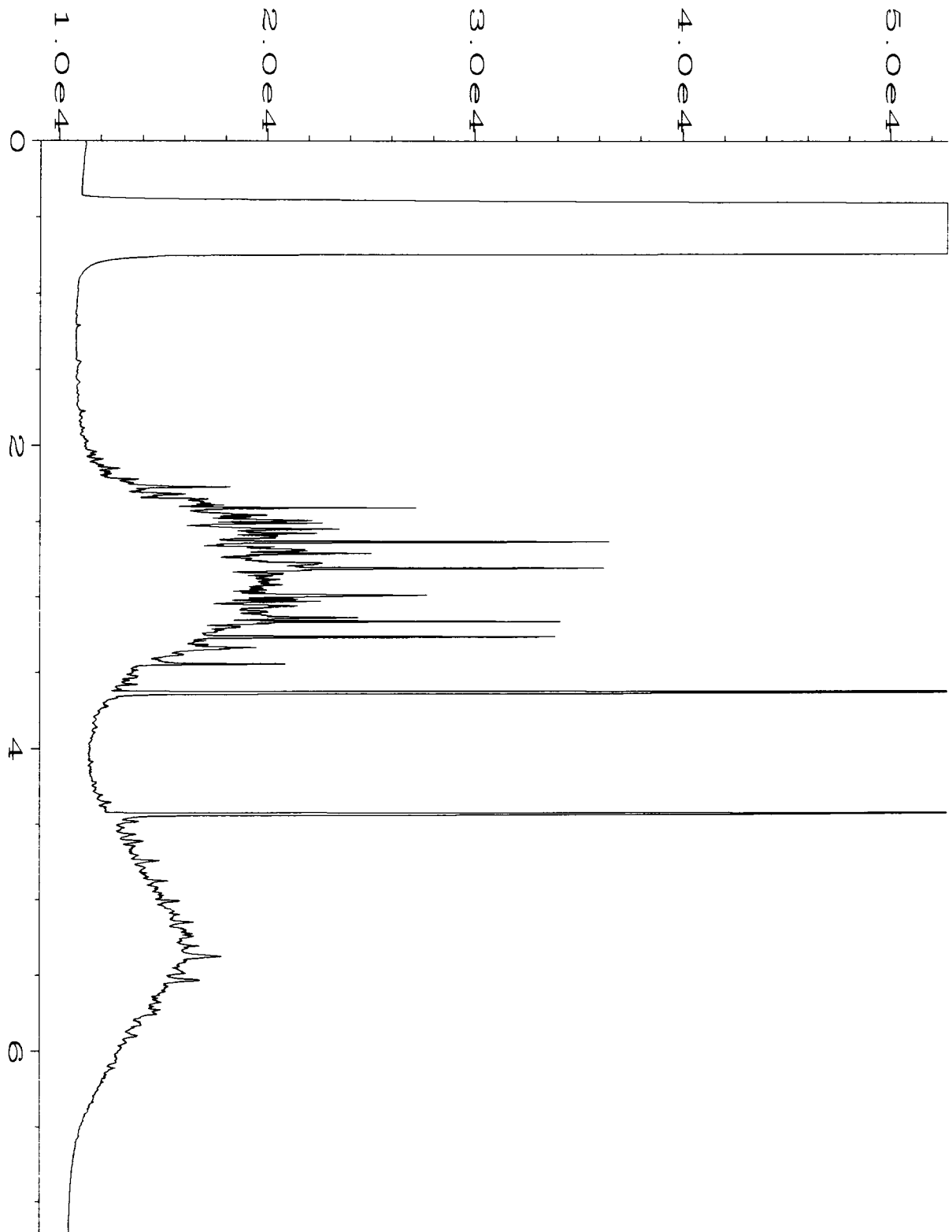
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Instrument	: GC1	Injection Number	: 1
Sample Name	: 510084-08	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 07 Oct 15 10:52 AM	Analysis Method	: DX.MTH
Report Created on:	08 Oct 15 10:39 AM		

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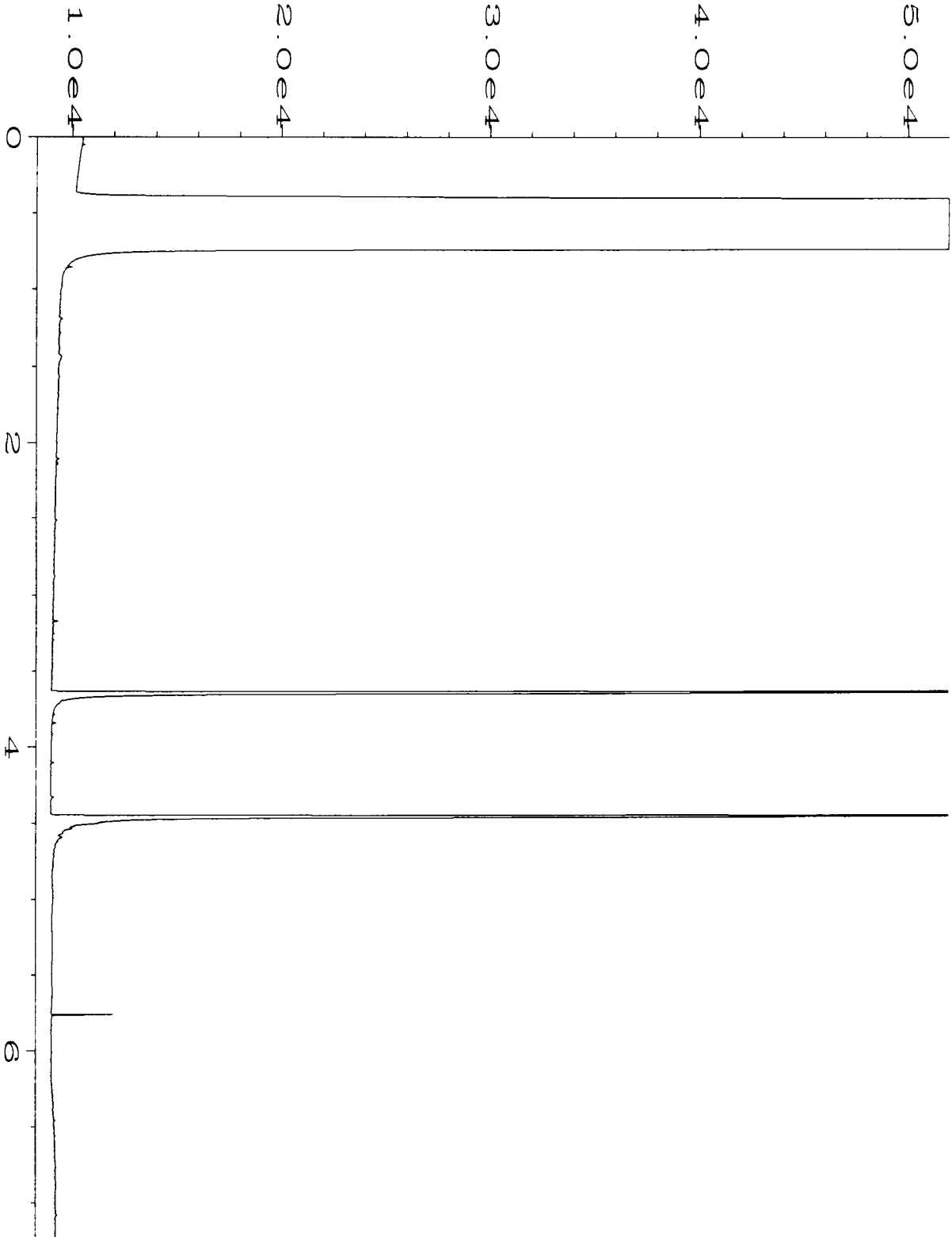
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Operator : mwdl  
Instrument : GC1  
Sample Name : 510084-09  
Run Time Bar Code:  
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Report Created on: 08 Oct 15 10:39 AM  
Page Number : 1  
Vial Number : 15  
Injection Number : 1  
Sequence Line : 3  
Instrument Method: DX.MTH  
Analysis Method : DX.MTH

1.0e4  
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1.0e4  
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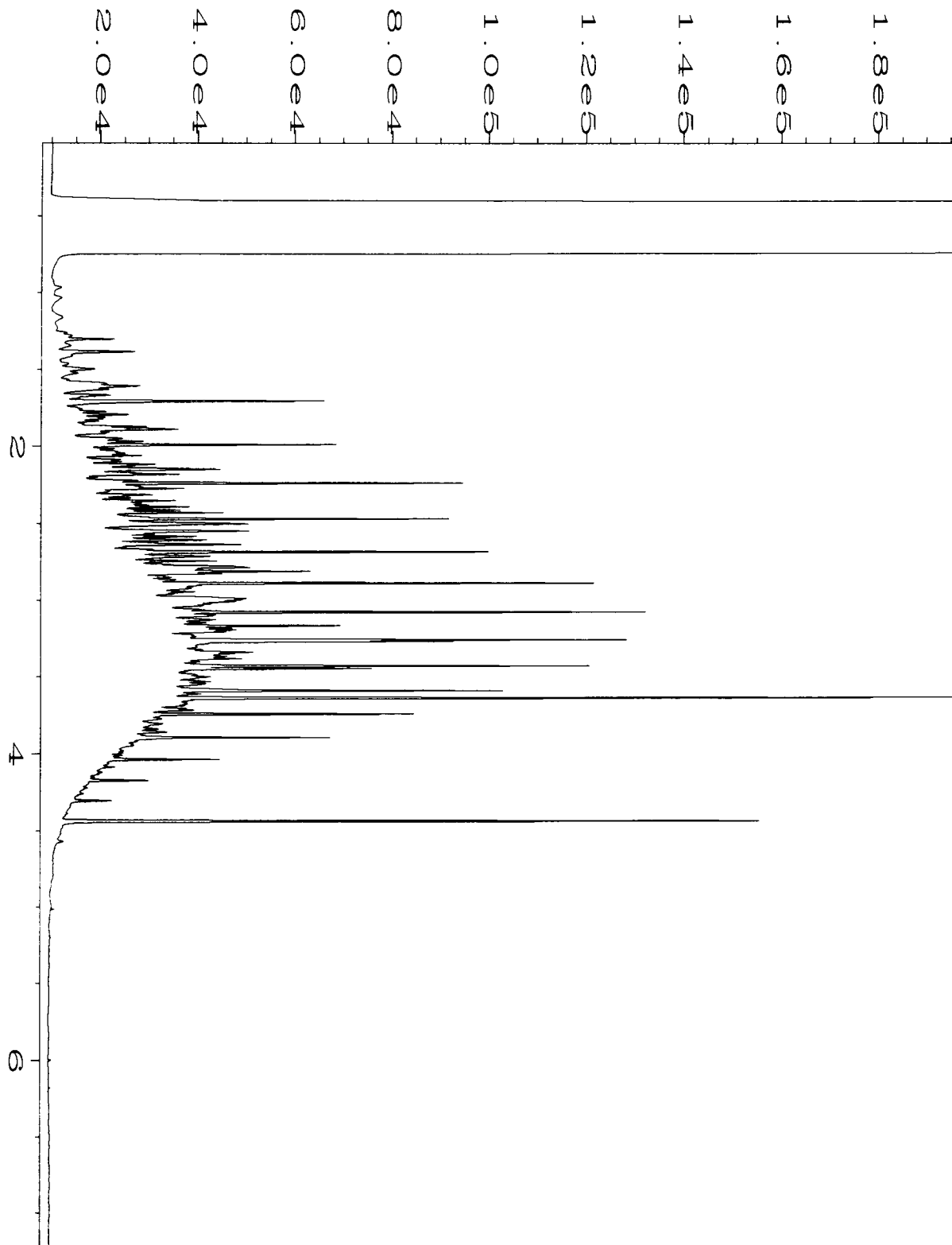
0  
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Data File Name : C:\HPCHEM\1\DATA\10-07-15\006F0301.D  
Operator : mwdl  
Instrument : GC1  
Sample Name : 05-2064 mb  
Fun Time Bar Code:  
Acquired on : 07 Oct 15 09:26 AM  
Report Created on: 08 Oct 15 10:40 AM  
Page Number : 1  
Vial Number : 6  
Injection Number : 1  
Sequence Line : 3  
Instrument Method: DX.MTH  
Analysis Method : DX.MTH

Doc  
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Data File Name : C:\HPCHEM\1\DATA\10-07-15\003F0201.D  
Operator : mwdl  
Instrument : GC1  
Sample Name : 500 Dx 45-182D  
Run Time Bar Code:  
Acquired on : 07 Oct 15 08:50 AM  
Report Created on: 08 Oct 15 10:39 AM  
Page Number : 1  
Vial Number : 3  
Injection Number : 1  
Sequence Line : 2  
Instrument Method: DX.MTH  
Analysis Method : DX.MTH



510084

SAMPLE CHAIN OF CUSTODY

ME 10-06-15

1 E03 / K82

Send Report To Chuck Cacek; cc: Jonathan Loeffler  
 Company SoundEarth Strategies, Inc.  
 Address 2811 Fairview Avenue East, Suite 2000  
 City, State, ZIP Seattle, Washington 98102  
 Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature)	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS	GEMS Y / N

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

TURNAROUND TIME  
 Standard (2 Weeks)  
 RUSH  1-week TAT  
 Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL  
 Dispose after 30 days  
 Return samples  
 Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED						Notes	
								NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals		
TP04NSW-10	TP04 NSW	10'	01A-E	10/5/15	1350	SOIL	5	X	X	X					
TP04NSW-13	TP04 NSW	13'	02		1400			X	X	X					
TP04NSW-16	TP04 NSW	16'	03		1406										
TP04SSW-10	TP04 SSW	10'	04		1420			X	X	X					
TP04SSW-15	TP04 SSW	15'	05		1430			X	X	X					
TP04SSW-COMPOSITE	TP04 SSW	—	06		1500		1						X		
TP04NSW-COMPOSITE	TP04 NSW	—	07		1502		1								
TP05NSW-15	TP05 NSW	15'	08A-E		1545			X	X	X					
TP05SSW-18	TP05 SSW	18'	09		1604			X	X	X					
TP05-COMPOSITE	TP05	—	10		1610		1						X		
							10/5/15								

Samples received at 4:00

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JONATHAN LOEFFLER	SOUNDEARTH	10/6/15	
Received by:	JASON STALEY	FED EX SDC	10/6/15	
Relinquished by:				
Received by:	Jason Shinn	FBI	10/06/15	14:30

***Friedman & Bruya, Inc. #601009***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

January 13, 2016

Chuck Cacek, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Cacek:

Included are the results from the testing of material submitted on January 4, 2016 from the SOU\_ 1002-003\_ 20160104, F&BI 601009 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Jonathan Loeffler  
SOU0113R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 4, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_ 1002-003\_ 20160104, F&BI 601009 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
601009 -01	VE22-N80-02.0
601009 -02	VE16-N16-02.0
601009 -03	VE20-N13-02.0
601009 -04	VE18-N25-04.0
601009 -05	VE15-N7-04.0

Vinyl chloride and methylene chloride failed below the acceptance criteria in the 8260C matrix spike samples. The vinyl chloride laboratory control sample passed the acceptance criteria, therefore the data were acceptable. The methylene chloride laboratory control sample failed, therefore the data were flagged.

The 8260C laboratory control sample and laboratory control sample duplicate 1,1-dichloroethene exceeded the acceptance criteria. 1,1-Dichloroethene was not detected in the samples, therefore the data were acceptable.

All other quality control requirements were acceptable.

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	VE16-N16-02.0	Client:	SoundEarth Strategies
Date Received:	01/04/16	Project:	SOU_ 1002-003_ 20160104, F&BI 601009
Date Extracted:	01/06/16	Lab ID:	601009-02
Date Analyzed:	01/07/16	Data File:	010657.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.02
Methylene chloride	<0.5 jl
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	VE20-N13-02.0	Client:	SoundEarth Strategies
Date Received:	01/04/16	Project:	SOU_ 1002-003_ 20160104, F&BI 601009
Date Extracted:	01/06/16	Lab ID:	601009-03
Date Analyzed:	01/07/16	Data File:	010658.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.02
Methylene chloride	<0.5 jl
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	VE18-N25-04.0	Client:	SoundEarth Strategies
Date Received:	01/04/16	Project:	SOU_ 1002-003_ 20160104, F&BI 601009
Date Extracted:	01/06/16	Lab ID:	601009-04
Date Analyzed:	01/07/16	Data File:	010659.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	53	50	150
Toluene-d8	63	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.02
Methylene chloride	<0.5 jl
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	VE15-N7-04.0	Client:	SoundEarth Strategies
Date Received:	01/04/16	Project:	SOU_ 1002-003_ 20160104, F&BI 601009
Date Extracted:	01/06/16	Lab ID:	601009-05
Date Analyzed:	01/07/16	Data File:	010660.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.02
Methylene chloride	<0.5 jl
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01



# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_ 1002-003_ 20160104, F&BI 601009
Date Extracted:	01/06/16	Lab ID:	06-021 mb
Date Analyzed:	01/07/16	Data File:	010649.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.02
Methylene chloride	<0.5 jl
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/13/16

Date Received: 01/04/16

Project: SOU\_ 1002-003\_ 20160104, F&BI 601009

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR VOLATILES BY EPA METHOD 8260C SIM**

Laboratory Code: 601030-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	0.2	<0.01	45 vo	50-150
Chloroethane	mg/kg (ppm)	0.2	<0.01	55	50-150
1,1-Dichloroethene	mg/kg (ppm)	0.2	<0.02	104	50-150
Methylene chloride	mg/kg (ppm)	0.2	<0.5	43 vo	50-150
1,1-Dichloroethane	mg/kg (ppm)	0.2	<0.01	70	50-150
1,1,1-Trichloroethane	mg/kg (ppm)	0.2	<0.01	58	50-150
Trichloroethene	mg/kg (ppm)	0.2	<0.01	68	50-150
Tetrachloroethene	mg/kg (ppm)	0.2	<0.01	63	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 0.20)
Vinyl chloride	mg/kg (ppm)	0.2	75	83	70-130	10
Chloroethane	mg/kg (ppm)	0.2	82	89	70-130	8
1,1-Dichloroethene	mg/kg (ppm)	0.2	152 vo	161 vo	70-130	6
Methylene chloride	mg/kg (ppm)	0.2	50 vo	122	70-130	84 vo
1,1-Dichloroethane	mg/kg (ppm)	0.2	106	98	70-130	8
1,1,1-Trichloroethane	mg/kg (ppm)	0.2	83	88	70-130	6
Trichloroethene	mg/kg (ppm)	0.2	92	101	70-130	9
Tetrachloroethene	mg/kg (ppm)	0.2	99	99	70-130	0

**Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

601009

SAMPLE CHAIN OF CUSTODY

1/4/16 MZ AO, /VS,

Send Report To Chuck Cacek; cc: Jonathan Loeffler

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) <i>Chris Tork</i>	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS EDC metal detection limit to 0.01	GEMS Y / N

Page # 1 of 1

TURNAROUND TIME  
Standard (2 Weeks)  
RUSH \_\_\_\_\_  
Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL  
Dispose after 30 days  
Return samples  
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED						Notes		
								NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	c.VOC's by 8260	SVOC's by 8270	RCRA-8 Metals			
VE22-N80-02.0	VE22-N80	2.0	01A-E	1/4/16	0800	SOI	5									
VE16-N16-02.0	VE16-N16	2.0	02A-E	1/4/16	0840	SOI	5				X					
VE20-N13-02.0	VE20-N13	2.0	02A-E	1/4/16	0845	SOI	5				X					
VE18-N15-04.0	VE18-N15	4.0	04A-E	1/4/16	0925	SOI	5				X					
VE15-N7-04.0	VE15-N7	4.0	05A-E	1/4/16	0950	SOI	5				X					

Samples received at 4 PC  
*[Signature]* 1/4/16

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>Chris Tork</i>	Chris Tork	SES	1/4/16	1200
Received by: <i>[Signature]</i>	Eric Youn	FR	1/4/16	0200
Relinquished by:				
Received by:				

***Friedman & Bruya, Inc. #601030***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

January 11, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on January 6, 2016 from the SOU\_1002-003\_20160106, F&BI 601030 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0111R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 6, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160106, F&BI 601030 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID  
601030 -01

SoundEarth Strategies  
VE18-N63-06

Vinyl chloride and methylene chloride failed below the acceptance criteria in the 8260C matrix spike samples. The vinyl chloride laboratory control sample passed the acceptance criteria, therefore the data were acceptable. The methylene chloride laboratory control sample failed, therefore the data were flagged.

The 8260C laboratory control sample and laboratory control sample duplicate 1,1-dichloroethene exceeded the acceptance criteria. 1,1-Dichloroethene was not detected in the samples, therefore the data were acceptable.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

Date of Report: 01/11/16  
Date Received: 01/06/16  
Project: SOU\_1002-003\_20160106, F&BI 601030  
Date Extracted: 01/06/16  
Date Analyzed: 01/06/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE  
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
VE18-N63-06 601030-01	150	139
Method Blank 06-004 MB2	<2	87



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/11/16  
Date Received: 01/06/16  
Project: SOU\_1002-003\_20160106, F&BI 601030  
Date Extracted: 01/06/16  
Date Analyzed: 01/06/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
VE18-N63-06 601030-01	1,300	<250	82
Method Blank 06-039 MB	<50	<250	88

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	VE18-N63-06	Client:	SoundEarth Strategies
Date Received:	01/06/16	Project:	SOU_1002-003_ 20160106, F&BI 601030
Date Extracted:	01/06/16	Lab ID:	601030-01
Date Analyzed:	01/07/16	Data File:	010650.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.01
Methylene chloride	<0.5 jl
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1002-003_ 20160106, F&BI 601030
Date Extracted:	01/06/16	Lab ID:	06-021 mb
Date Analyzed:	01/07/16	Data File:	010649.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.01
Methylene chloride	<0.5 jl
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

Date of Report: 01/11/16

Date Received: 01/06/16

Project: SOU\_1002-003\_20160106, F&BI 601030

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR TPH AS GASOLINE  
USING METHOD NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	mg/kg (ppm)	20	95	100	61-153	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/11/16

Date Received: 01/06/16

Project: SOU\_1002-003\_20160106, F&BI 601030

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 601024-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	110	112	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	114	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/11/16

Date Received: 01/06/16

Project: SOU\_1002-003\_20160106, F&BI 601030

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR VOLATILES BY EPA METHOD 8260C SIM**

Laboratory Code: 601030-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppm)	0.2	<0.01	45 vo	50-150
Chloroethane	mg/kg (ppm)	0.2	<0.01	55	50-150
1,1-Dichloroethene	mg/kg (ppm)	0.2	<0.01	104	50-150
Methylene chloride	mg/kg (ppm)	0.2	<0.5	43 vo	50-150
1,1-Dichloroethane	mg/kg (ppm)	0.2	<0.01	70	50-150
1,1,1-Trichloroethane	mg/kg (ppm)	0.2	<0.01	58	50-150
Trichloroethene	mg/kg (ppm)	0.2	<0.01	68	50-150
Tetrachloroethene	mg/kg (ppm)	0.2	<0.01	63	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 0.20)
Vinyl chloride	mg/kg (ppm)	0.2	75	83	70-130	10
Chloroethane	mg/kg (ppm)	0.2	82	89	70-130	8
1,1-Dichloroethene	mg/kg (ppm)	0.2	152 vo	161 vo	70-130	6
Methylene chloride	mg/kg (ppm)	0.2	50 vo	122	70-130	84 vo
1,1-Dichloroethane	mg/kg (ppm)	0.2	106	98	70-130	8
1,1,1-Trichloroethane	mg/kg (ppm)	0.2	83	88	70-130	6
Trichloroethene	mg/kg (ppm)	0.2	92	101	70-130	9
Tetrachloroethene	mg/kg (ppm)	0.2	99	99	70-130	0

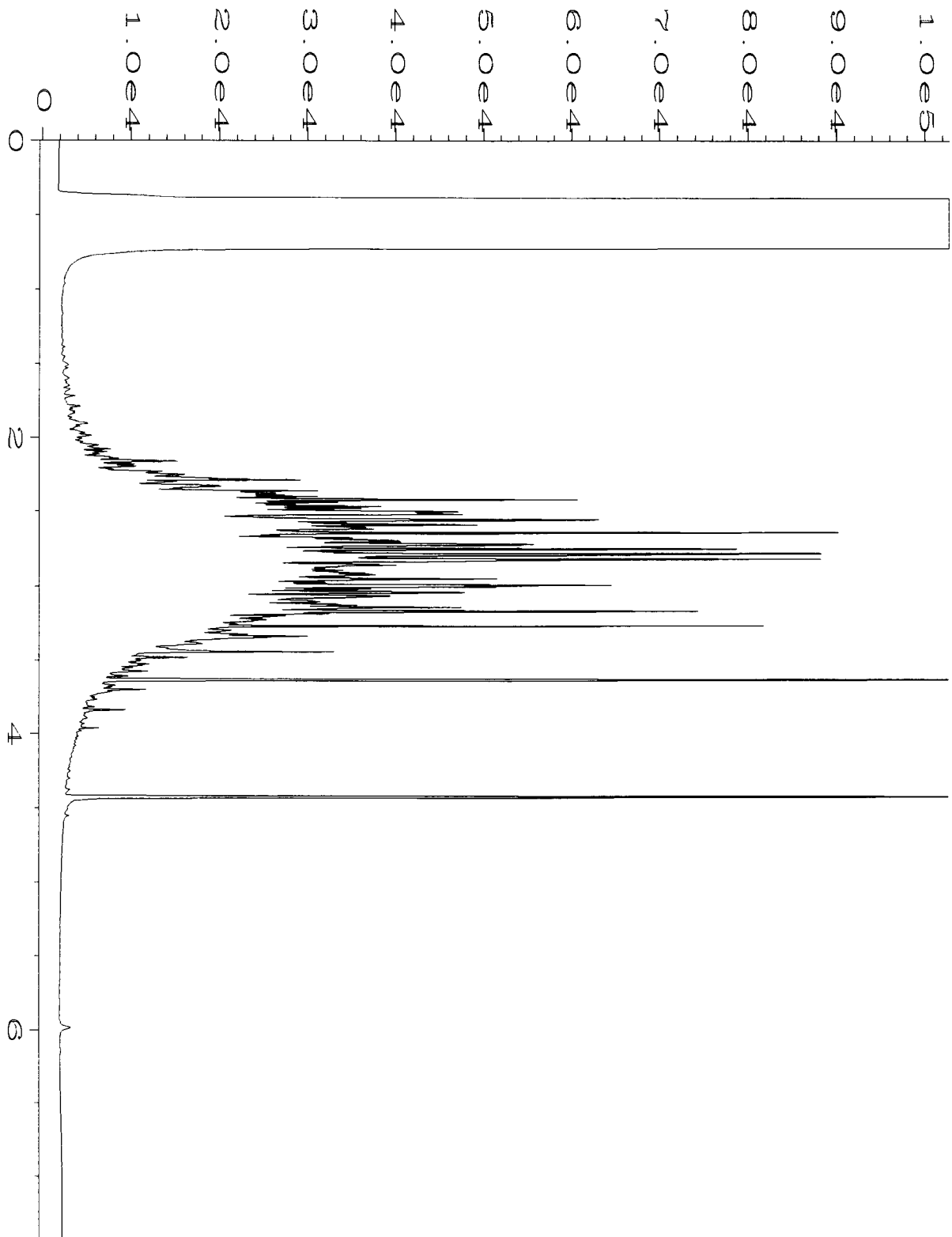
# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

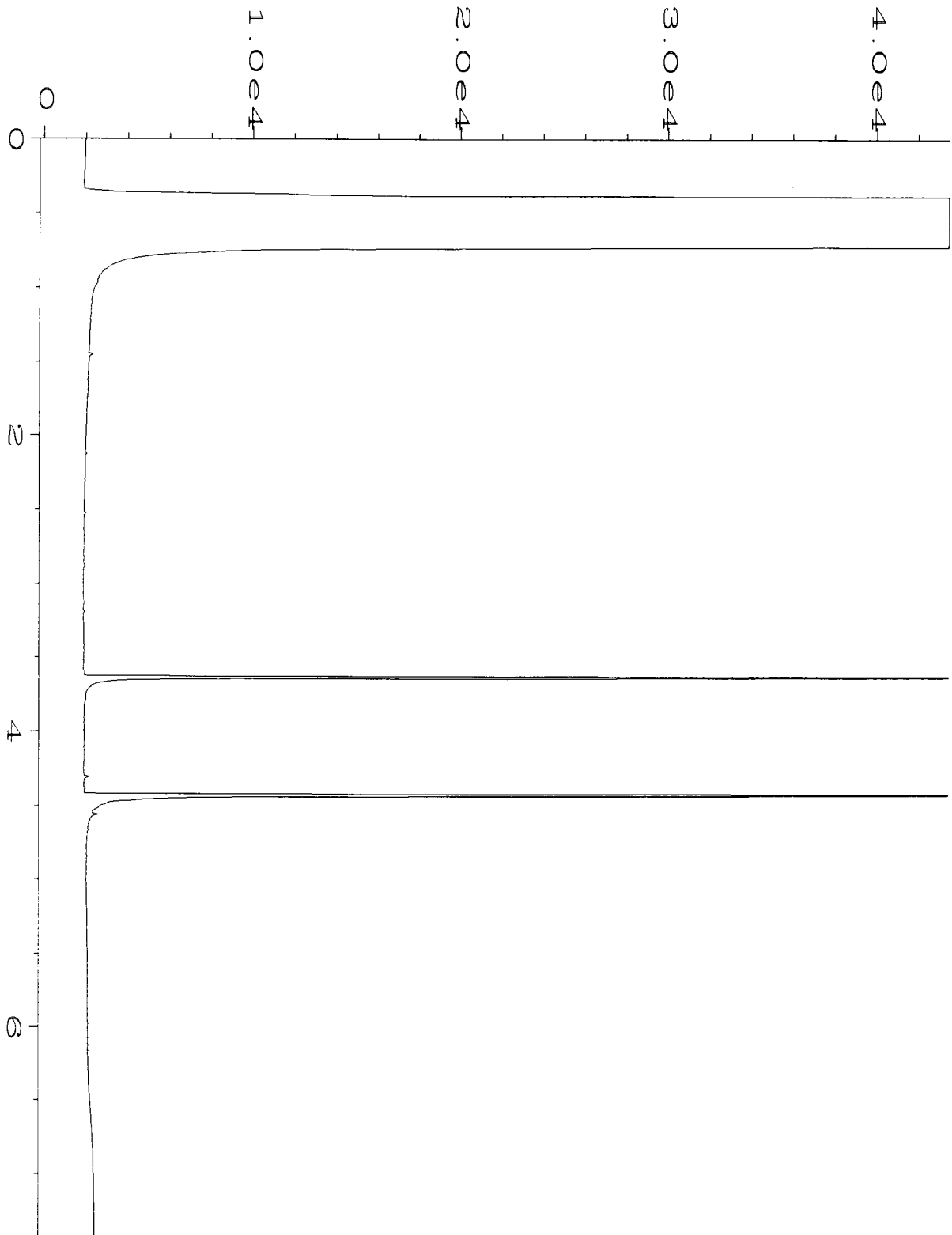
### **Data Qualifiers & Definitions**

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The compound is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

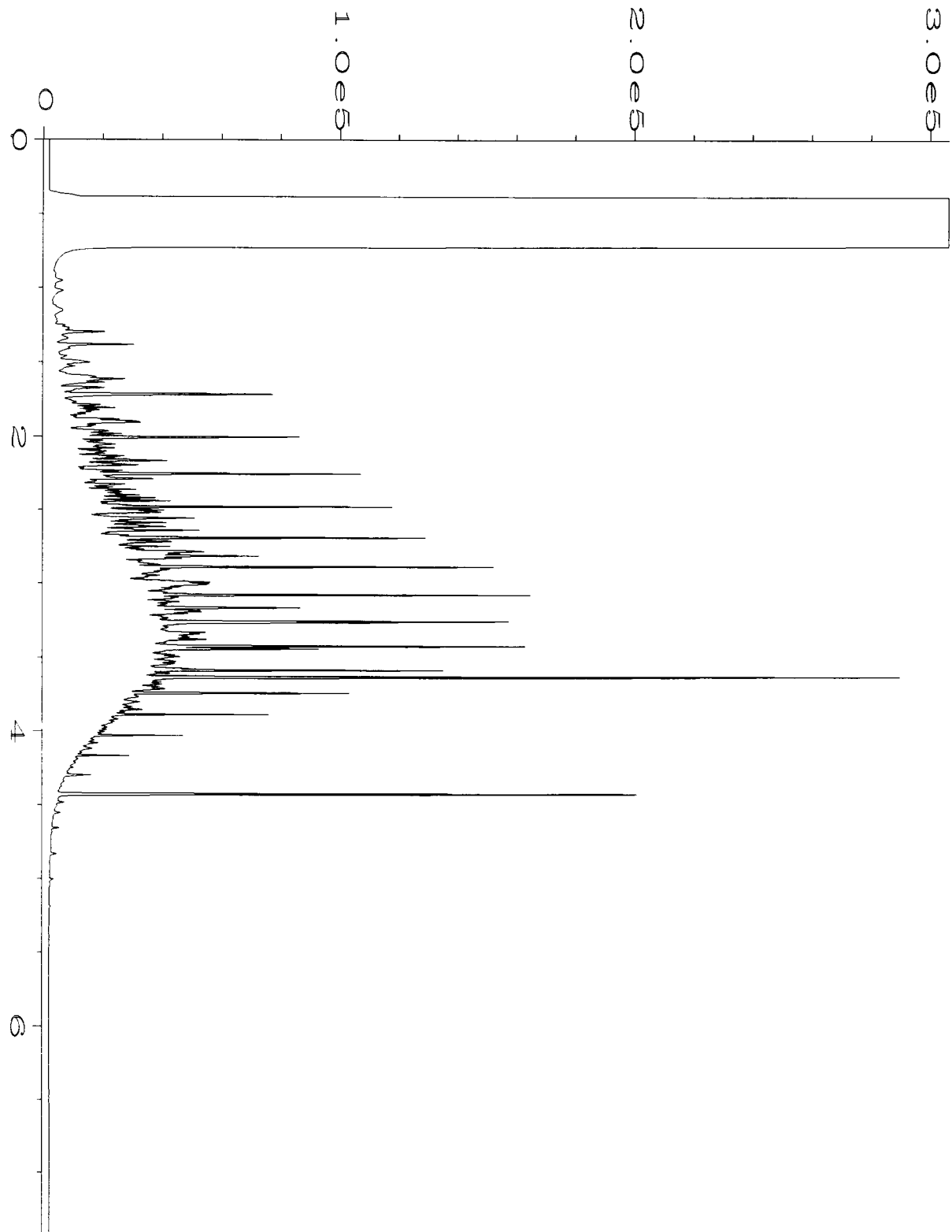


Data File Name	: C:\HPCHEM\4\DATA\01-06-16\023F0501.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 23
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 601030-01	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 06 Jan 16 03:22 PM	Analysis Method	: DX.MTH
Report Created on:	07 Jan 16 08:52 AM		





Data File Name	: C:\HPCHEM\4\DATA\01-06-16\006F0301.D	Page Number	: 1
Operator	: mwd1	Vial Number	: 6
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-039 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 06 Jan 16 09:27 AM	Analysis Method	: DX.MTH
Report Created on:	07 Jan 16 08:52 AM		



Data File Name	: C:\HPCHEM\4\DATA\01-06-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 06 Jan 16 09:10 AM	Analysis Method	: DX.MTH
Report Created on:	07 Jan 16 08:52 AM		

601030

**SAMPLE CHA' OF CUSTODY**

ME 01-06-16


Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

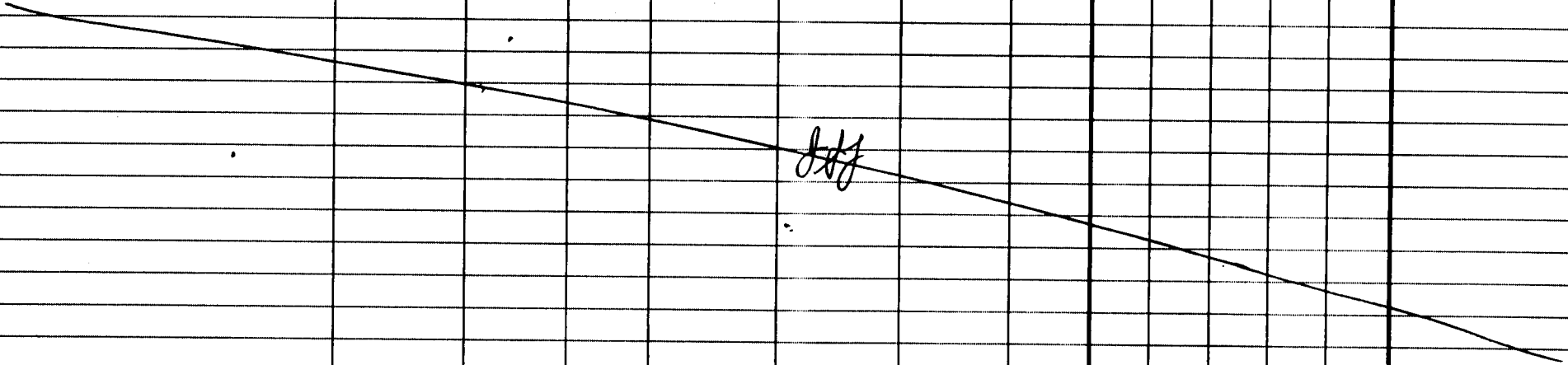
Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) 	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS low level detection limit of 0.01 mg/kg for EDC.	GEMS Y / N

Page # 1 of 1




TURNAROUND TIME  
Standard (2 Weeks)  
RUSH 24 hr.  
Rush charges authorized by:  
Chuck Cacek

SAMPLE DISPOSAL  
Dispose after 30 days  
Return samples  
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED					Notes
								NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	CVOCs by 8260B		
VE18-N63-06	VE18-N63	6'	01A-E	1/5/16	0955	SOIL	5	X	X		X		
													

Samples received at 1 °C

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	JONATHAN LOEFFLER	SOUNDEARTH	1/5/16	
Received by: 	Josh Griffin	FedEx SOC	1/6	9:37am
Relinquished by:				
Received by: 	Nhan Phan	F-CBT	1/6/16	10:00

***Friedman & Bruya, Inc. #601071***

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

January 13, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on January 8, 2016 from the SOU\_1002-003\_ 20160108, F&BI 601071 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0113R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 8, 2015 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160108, F&BI 601071 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID  
601071 -01

SoundEarth Strategies  
VE22-N44-09

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/13/16  
Date Received: 01/08/16  
Project: SOU\_1002-003\_20160108, F&BI 601071  
Date Extracted: 01/08/16  
Date Analyzed: 01/08/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
VE22-N44-09 601071-01	320	<250	96
Method Blank 06-050 MB	<50	<250	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/13/16

Date Received: 01/08/16

Project: SOU\_1002-003\_20160108, F&BI 601071

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL  
USING METHOD NWTPH-Dx**

Laboratory Code: 601046-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel	mg/kg (ppm)	500	<50	117	111	73-135	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel	mg/kg (ppm)	500	119	74-139



# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

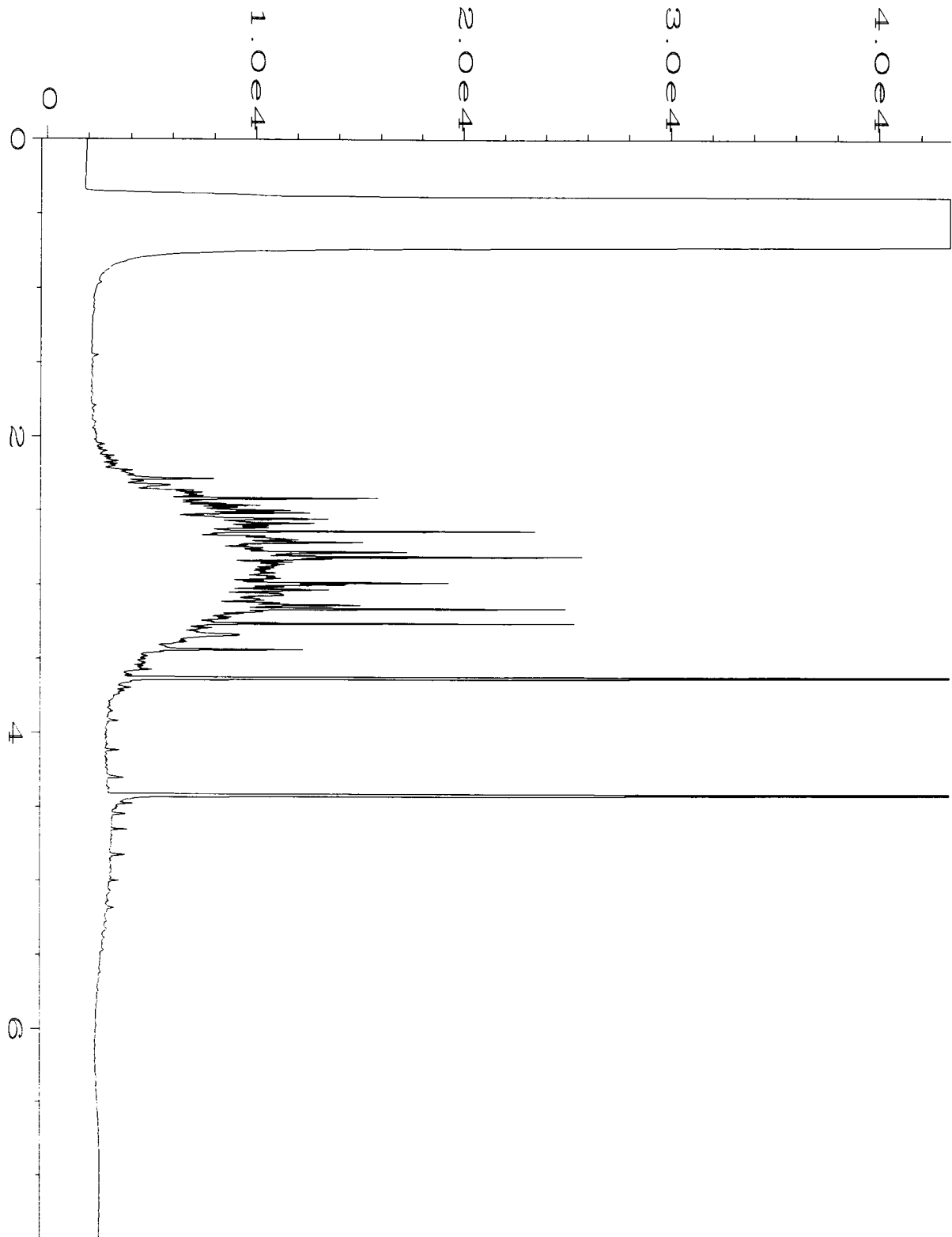
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

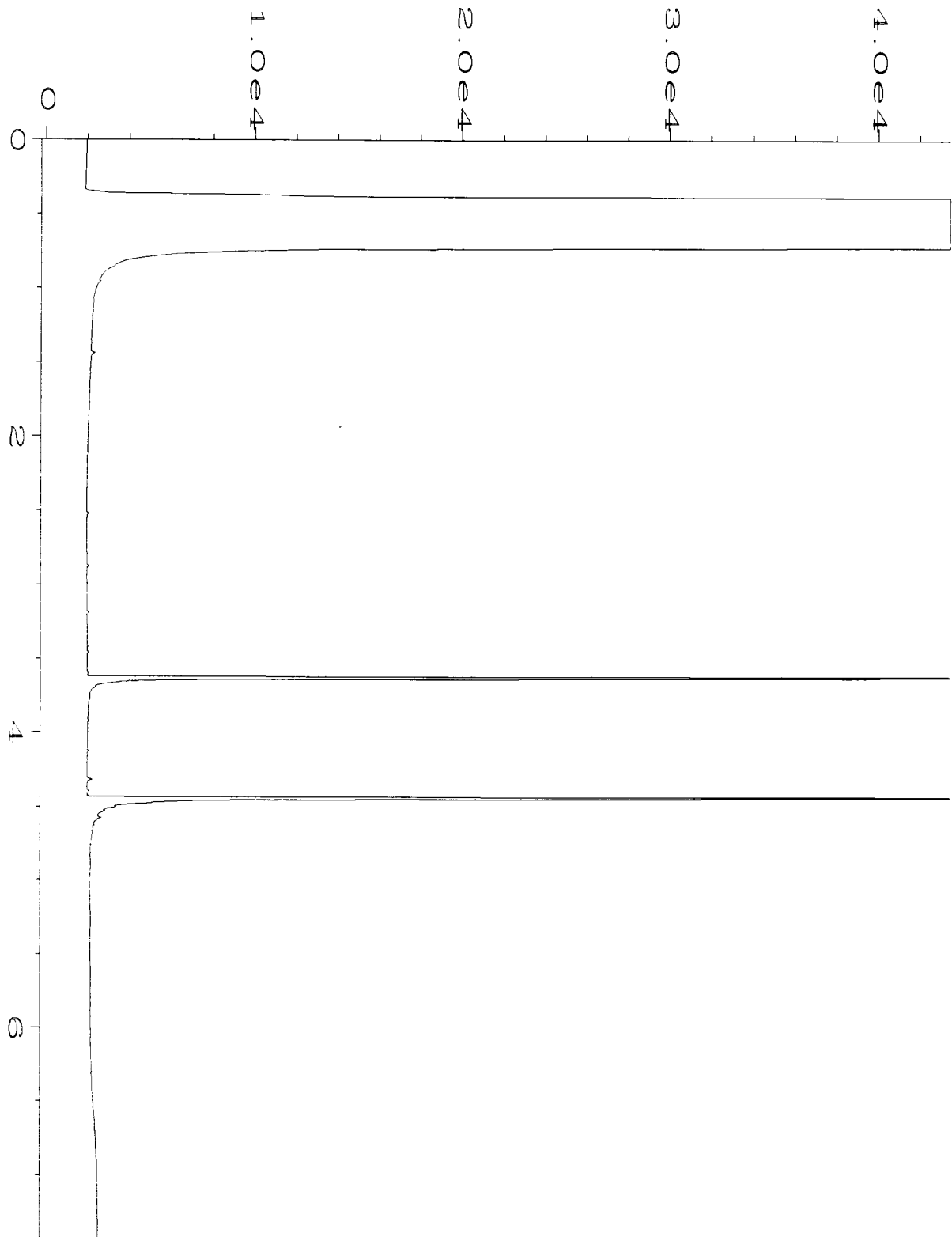
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

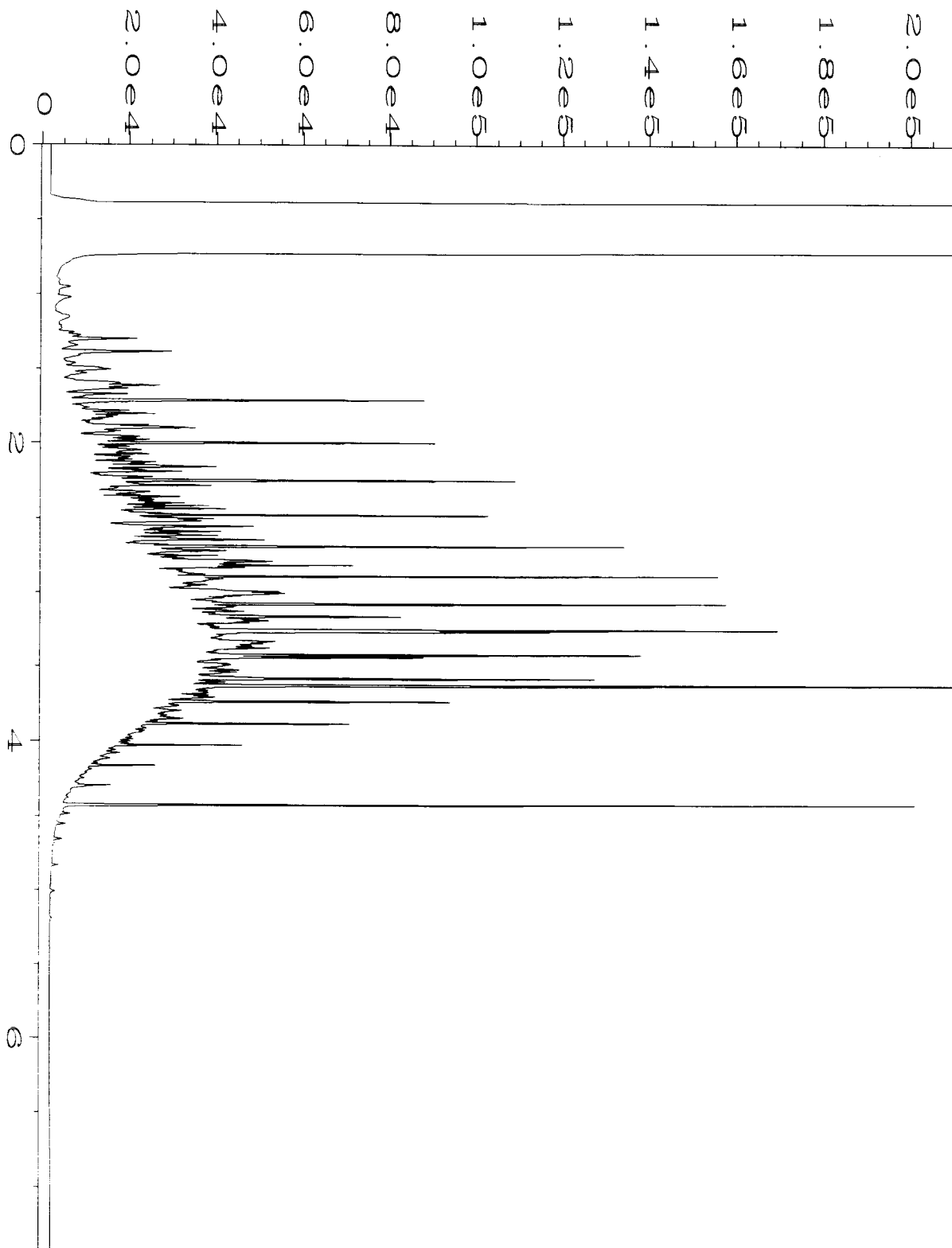
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Data File Name	: C:\HPCHEM\4\DATA\01-08-16\044F1101.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 44
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 601071-01	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 08 Jan 16 06:20 PM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:40 AM		



Data File Name	: C:\HPCHEM\4\DATA\01-08-16\018F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 18
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-050 mb	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 08 Jan 16 12:35 PM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:40 AM		



Data File Name	: C:\HPCHEM\4\DATA\01-08-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 08 Jan 16 08:34 AM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:40 AM		

601071

SAMPLE CHA' OF CUSTODY

ME 1/8/16 ~~1/11/16~~ Page # ~~1~~ of 1 ~~151/A01~~

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) 	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS 1 low level detection limit of 0.01 mg/kg for EDC.	GEMS Y / N

TURNAROUND TIME Standard (2 Weeks) KRUSH <u>28 hrs</u> Rush charges authorized by: <u>Chuck Cacek</u>
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED					Notes
								NWTPH-DX	NWTPH-GX	BTEX by 8021B	CVOCs by 8260B1	HOLD	
VE22-N44-09	VE22-N44	9'	01 A-E	1/7/15	1111	SOIL	5	X					

Samples received at 2 °C

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	JONATHAN LOEFFLER	SOUNDEARTH	1/8/16	1404
	TOM SAKSHAUG	FEDEX OFFICE	1/8/16	14:04
	TOM SAKSHAUG	FEDEX OFFICE	1/8/16	14:32
	Khan Phan	FBI	1/8/16	1432

***Friedman & Bruya, Inc. #601072***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

January 14, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on January 8, 2016 from the SOU\_1002-003\_ 20160108, F&BI 601072 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0114R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 8, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_20160108, F&BI 601072 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
601072 -01	UST01-BTM-01-12
601072 -02	UST01-SSW01-11
601072 -03	UST01-WSW01-11
601072 -04	UST01-ESW01-11
601072 -05	UST01-NSW01-11
601072 -06	UST01-ESW02-16

The 8260C calibration standard failed the acceptance criteria for 1,1-dichloroethene. In addition, the laboratory control sample and laboratory control sample duplicate failed below the acceptance criteria. The data were flagged accordingly.

Methylene chloride failed below the acceptance criteria in the matrix spike sample. In addition, the methylene chloride laboratory control sample and laboratory control sample duplicate failed the relative percent difference acceptance criteria. The laboratory control samples met the percent acceptance criteria and methylene chloride was not detected in the samples, therefore the results were acceptable.

All other quality control requirements were acceptable.



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/14/16  
Date Received: 01/08/16  
Project: SOU\_1002-003\_20160108, F&BI 601072  
Date Extracted: 01/08/16  
Date Analyzed: 01/08/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> (% Recovery) (Limit 48-168)
UST01-BTM-01-12 601072-01	4,500	<250	97
UST01-SSW01-11 601072-02	5,100	<250	99
UST01-WSW01-11 601072-03	8,000	<250	96
UST01-ESW01-11 601072-04	4,200	<250	103
UST01-NSW01-11 601072-05	150	<250	90
UST01-ESW02-16 601072-06	<50	<250	92
Method Blank 06-050 MB	<50	<250	94

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	UST01-BTM-01-12	Client:	SoundEarth Strategies
Date Received:	01/08/16	Project:	SOU_1002-003_ 20160108, F&BI 601072
Date Extracted:	01/11/16	Lab ID:	601072-01
Date Analyzed:	01/11/16	Data File:	011115.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	111	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.02 ca
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1002-003_ 20160108, F&BI 601072
Date Extracted:	01/11/16	Lab ID:	06-059 mb
Date Analyzed:	01/11/16	Data File:	011109.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	90	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.02 ca
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/14/16

Date Received: 01/08/16

Project: SOU\_1002-003\_20160108, F&BI 601072

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL  
USING METHOD NWTPH-Dx**

Laboratory Code: 601046-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel	mg/kg (ppm)	500	<50	117	111	73-135	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel	mg/kg (ppm)	500	119	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/14/16

Date Received: 01/08/16

Project: SOU\_1002-003\_20160108, F&BI 601072

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR VOLATILES BY EPA METHOD 8260C SIM**

Laboratory Code: 601074-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppb)	0.2	<0.01	52	50-150
Chloroethane	mg/kg (ppb)	0.2	<0.01	62	50-150
1,1-Dichloroethene	mg/kg (ppb)	0.2	<0.02 ca	80	50-150
Methylene chloride	mg/kg (ppb)	0.2	<0.5	18 vo	50-150
trans-1,2-Dichloroethene	mg/kg (ppb)	0.2	<0.01	65	50-150
1,1-Dichloroethane	mg/kg (ppb)	0.2	<0.01	93	50-150
cis-1,2-Dichloroethene	mg/kg (ppb)	0.2	<0.01	84	50-150
1,2-Dichloroethane (EDC)	mg/kg (ppb)	0.2	<0.01	71	50-150
1,1,1-Trichloroethane	mg/kg (ppb)	0.2	<0.01	80	50-150
Trichloroethene	mg/kg (ppb)	0.2	<0.01	82	50-150
Tetrachloroethene	mg/kg (ppb)	0.2	<0.01	94	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 0.20)
Vinyl chloride	mg/kg (ppb)	0.2	78	81	70-130	4
Chloroethane	mg/kg (ppb)	0.2	80	85	70-130	6
1,1-Dichloroethene	mg/kg (ppb)	0.2	57 vo ca	60 vo ca	70-130	5
Methylene chloride	mg/kg (ppb)	0.2	83	111	70-130	29 vo
trans-1,2-Dichloroethene	mg/kg (ppb)	0.2	120	111	70-130	8
1,1-Dichloroethane	mg/kg (ppb)	0.2	79	91	70-130	14
cis-1,2-Dichloroethene	mg/kg (ppb)	0.2	92	100	70-130	8
1,2-Dichloroethane (EDC)	mg/kg (ppb)	0.2	79	90	70-130	13
1,1,1-Trichloroethane	mg/kg (ppb)	0.2	96	102	70-130	6
Trichloroethene	mg/kg (ppb)	0.2	91	97	70-130	6
Tetrachloroethene	mg/kg (ppb)	0.2	99	99	70-130	0

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

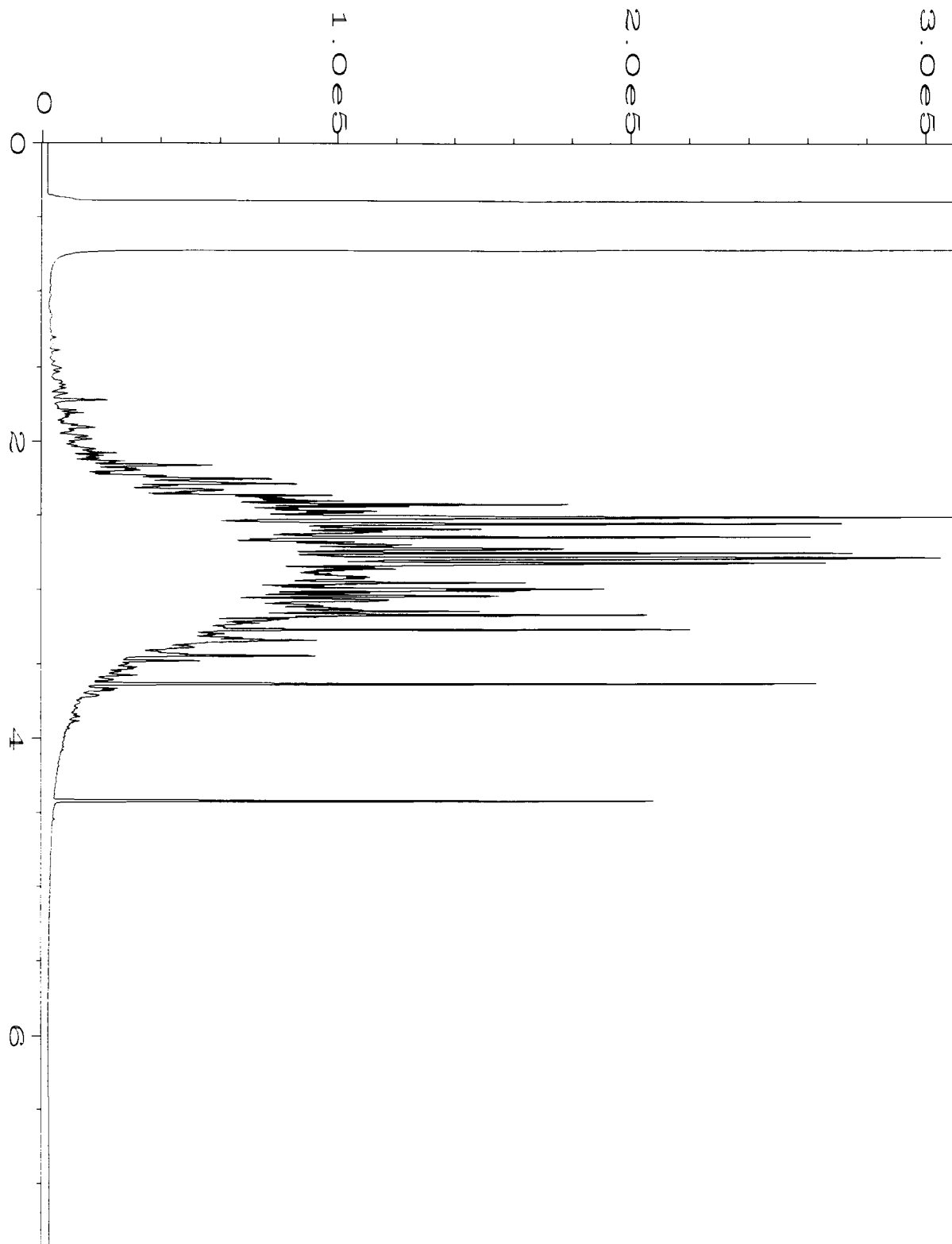
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

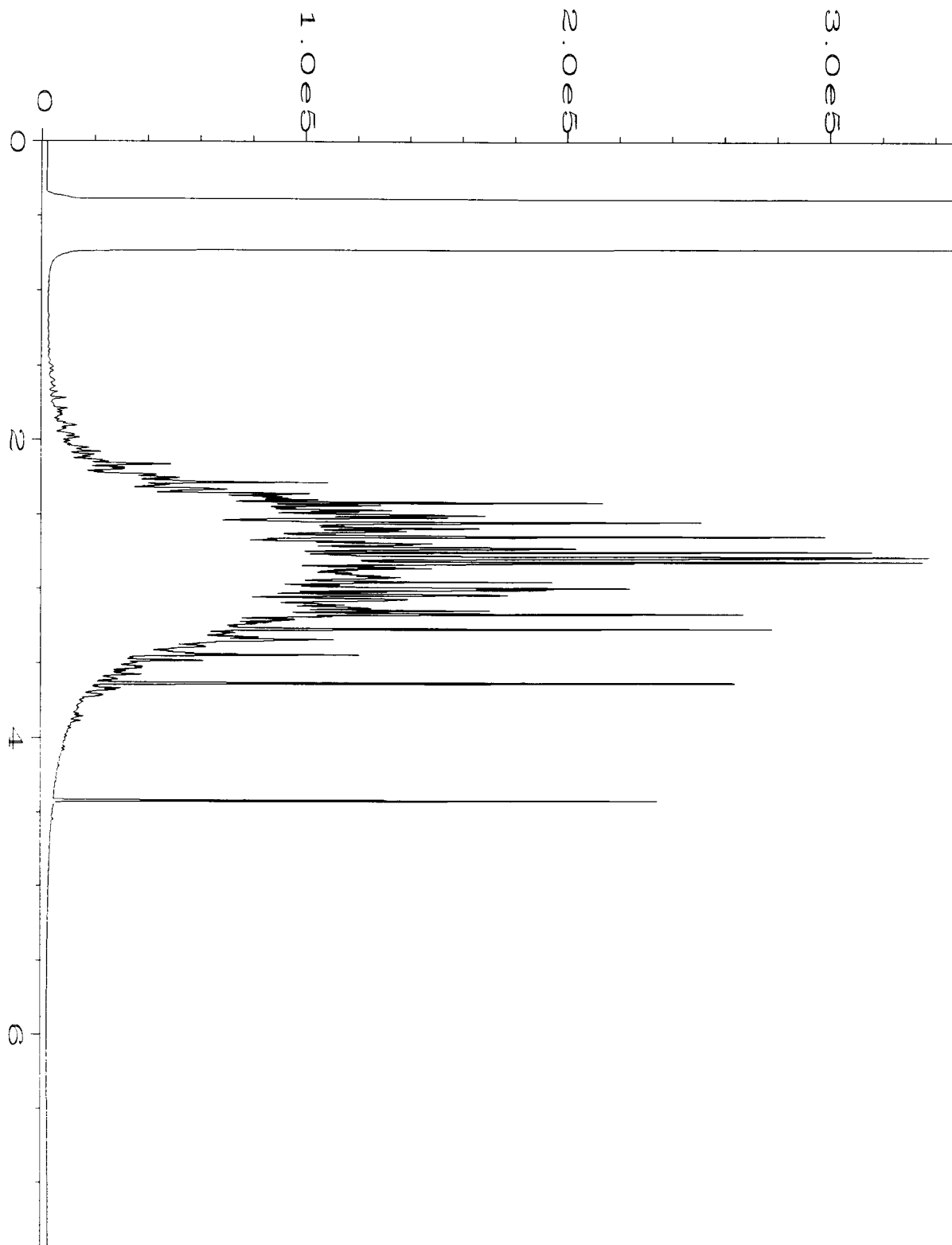
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

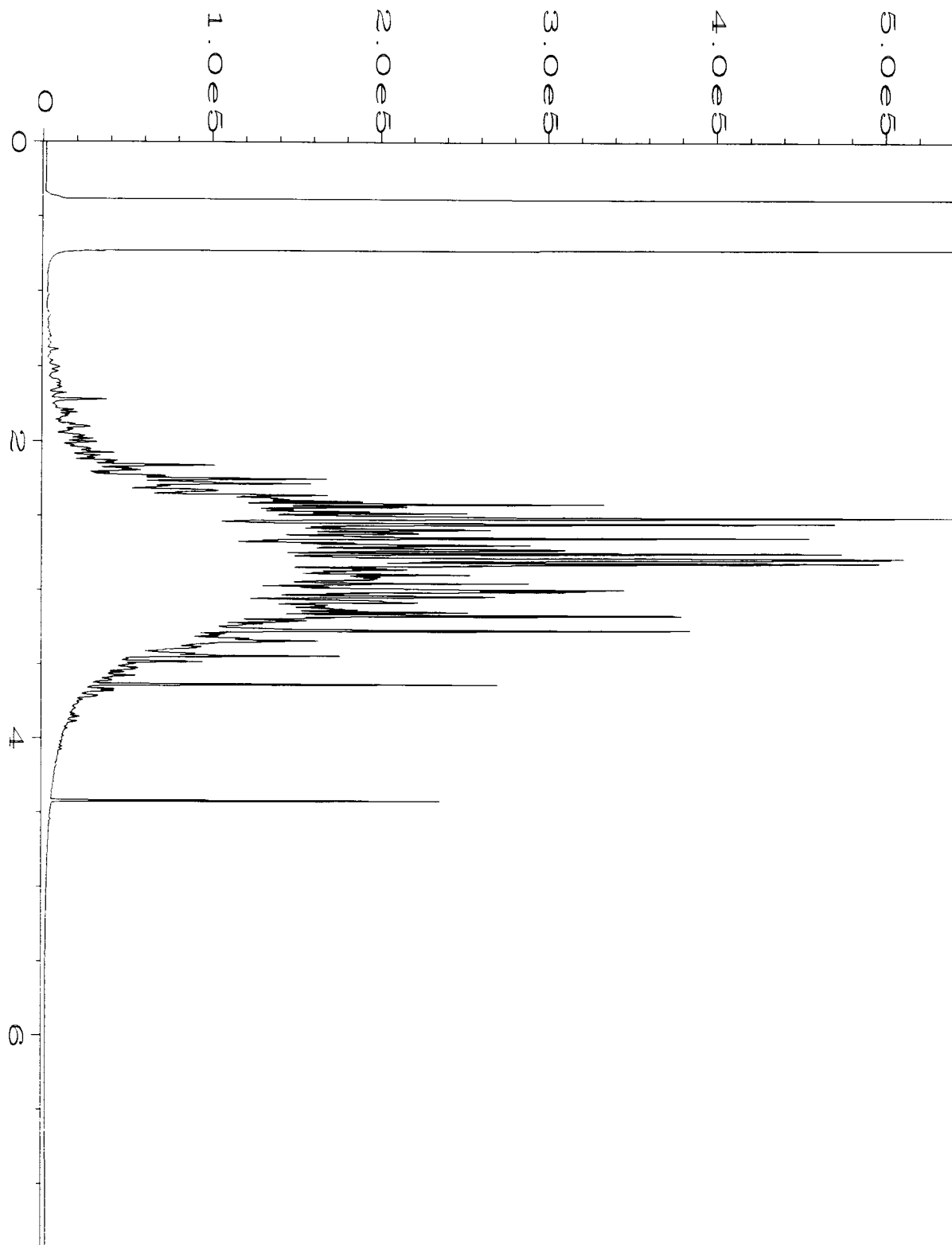


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Operator	: mwdl	Vial Number	: 45
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Sample Name	: 601072-01	Sequence Line	: 11
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Acquired on	: 08 Jan 16 06:32 PM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:42 AM		

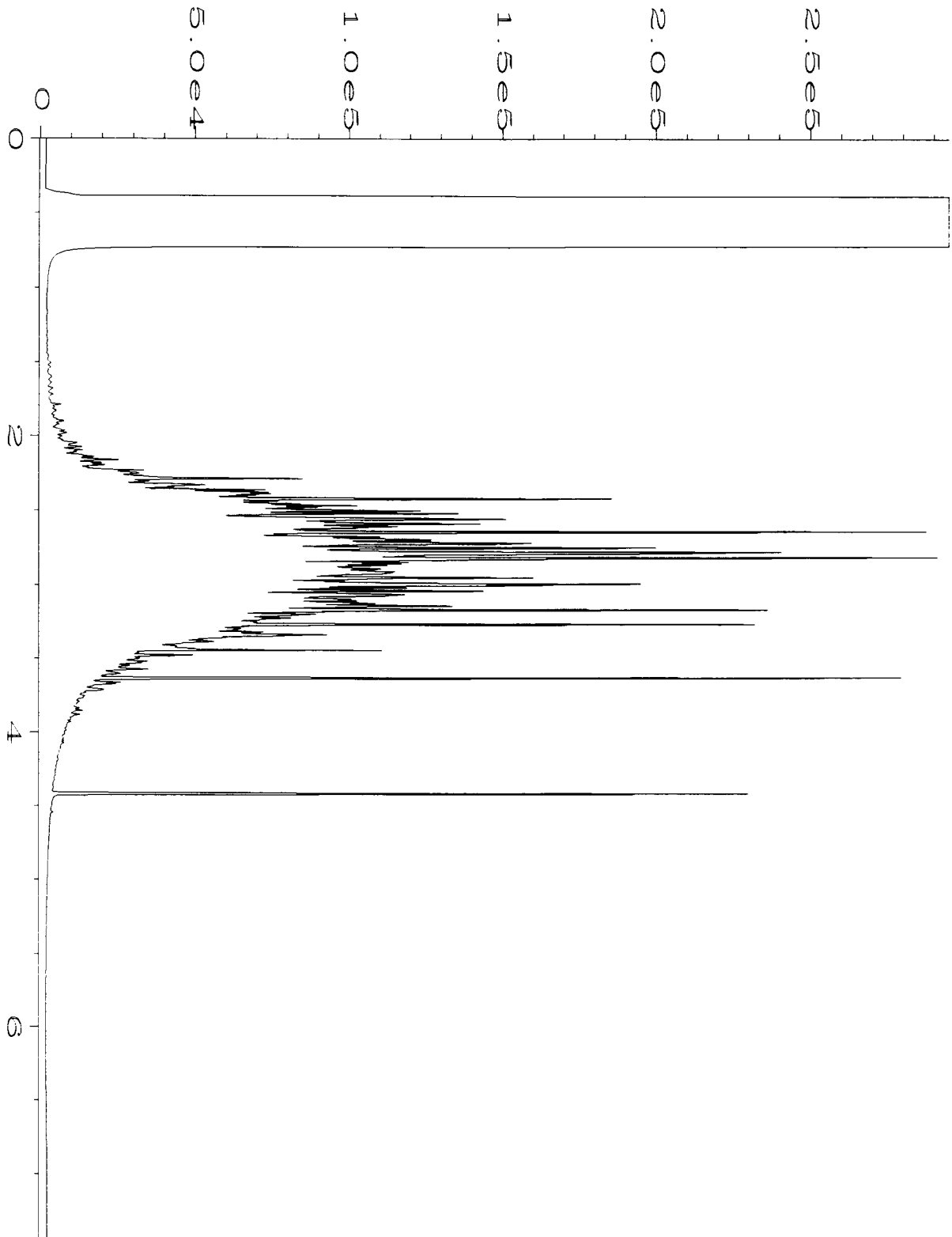


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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 601072-02	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 08 Jan 16 06:44 PM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:42 AM		

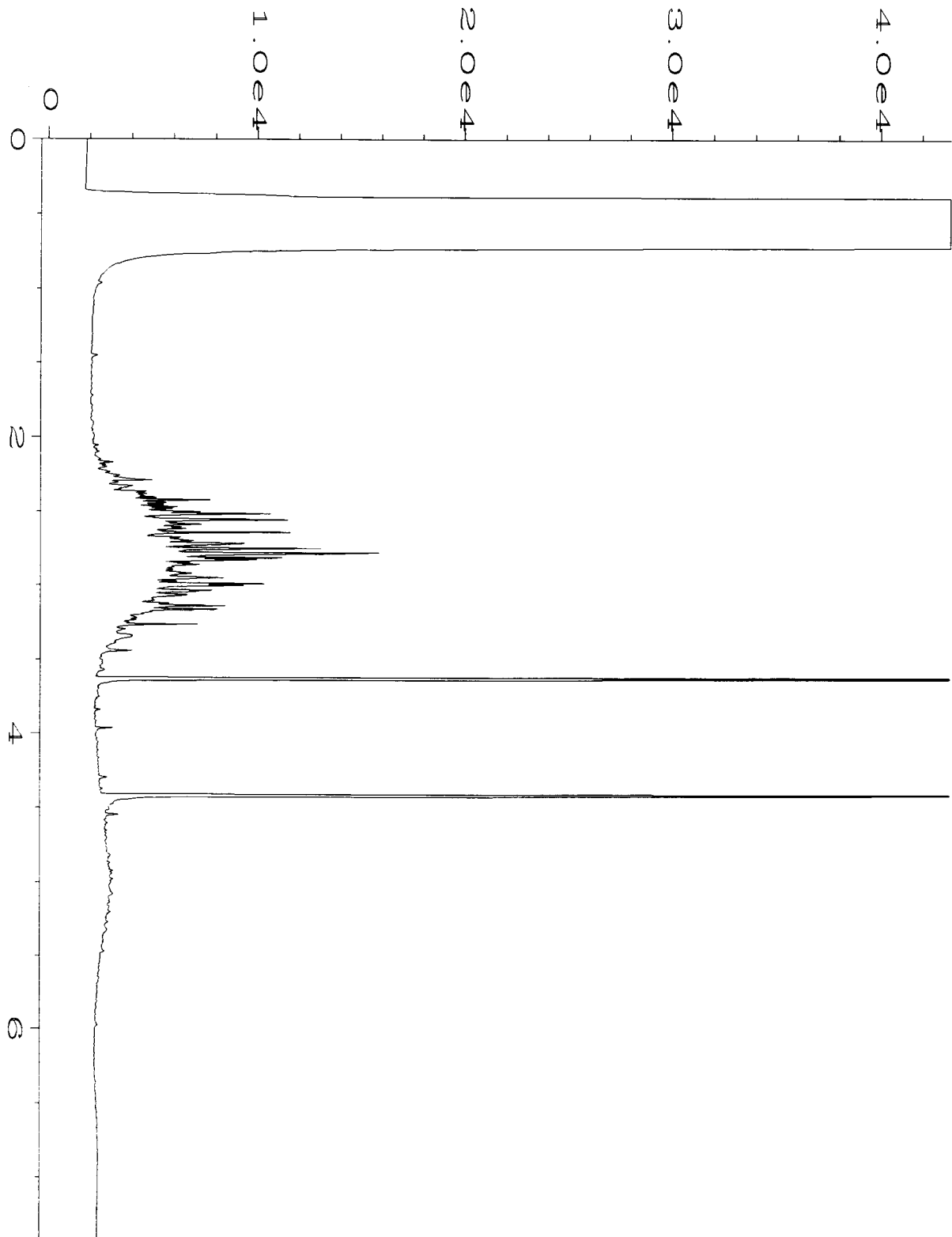




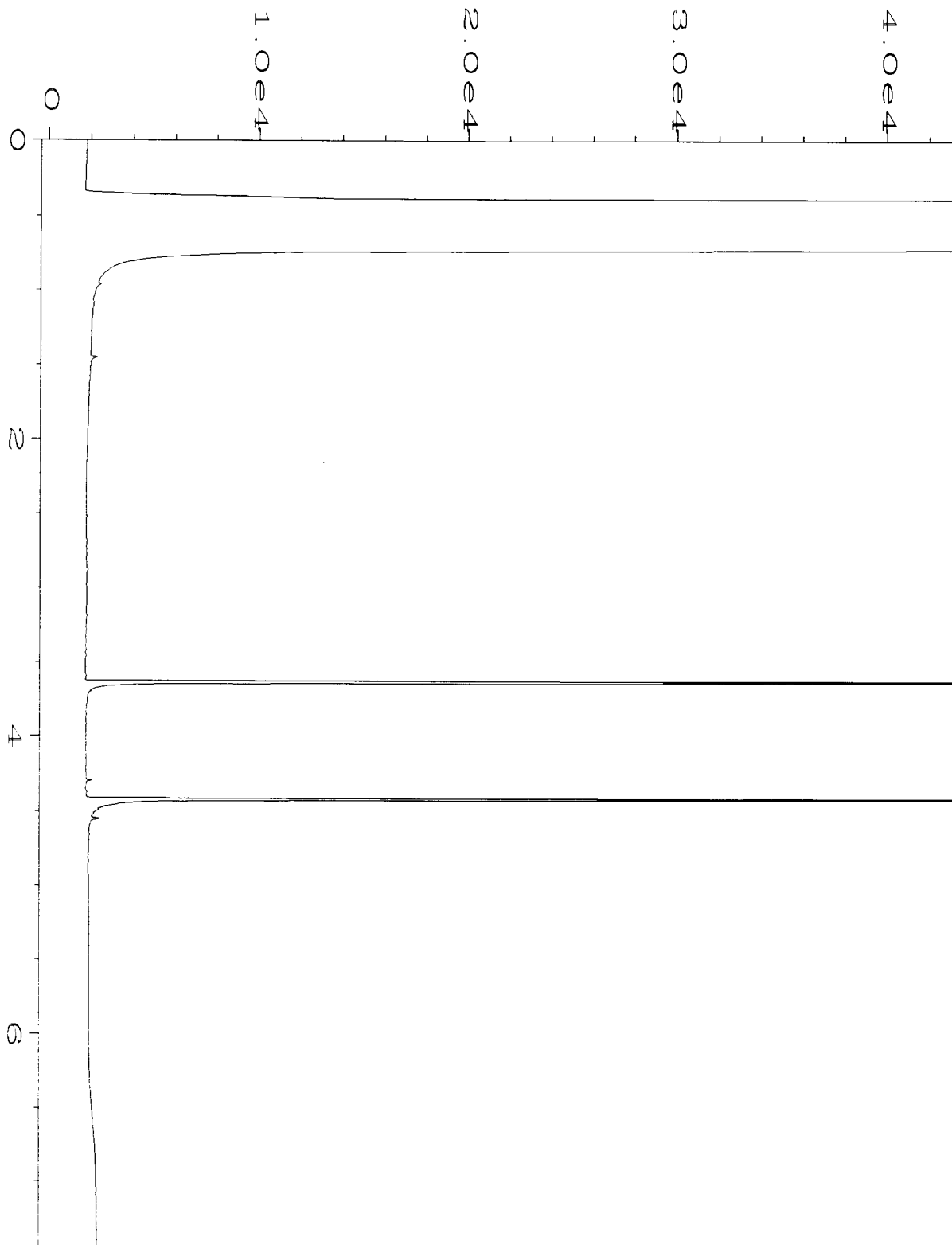
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Operator	: mwdl	Vial Number	: 47
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 601072-03	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 08 Jan 16 06:55 PM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:43 AM		



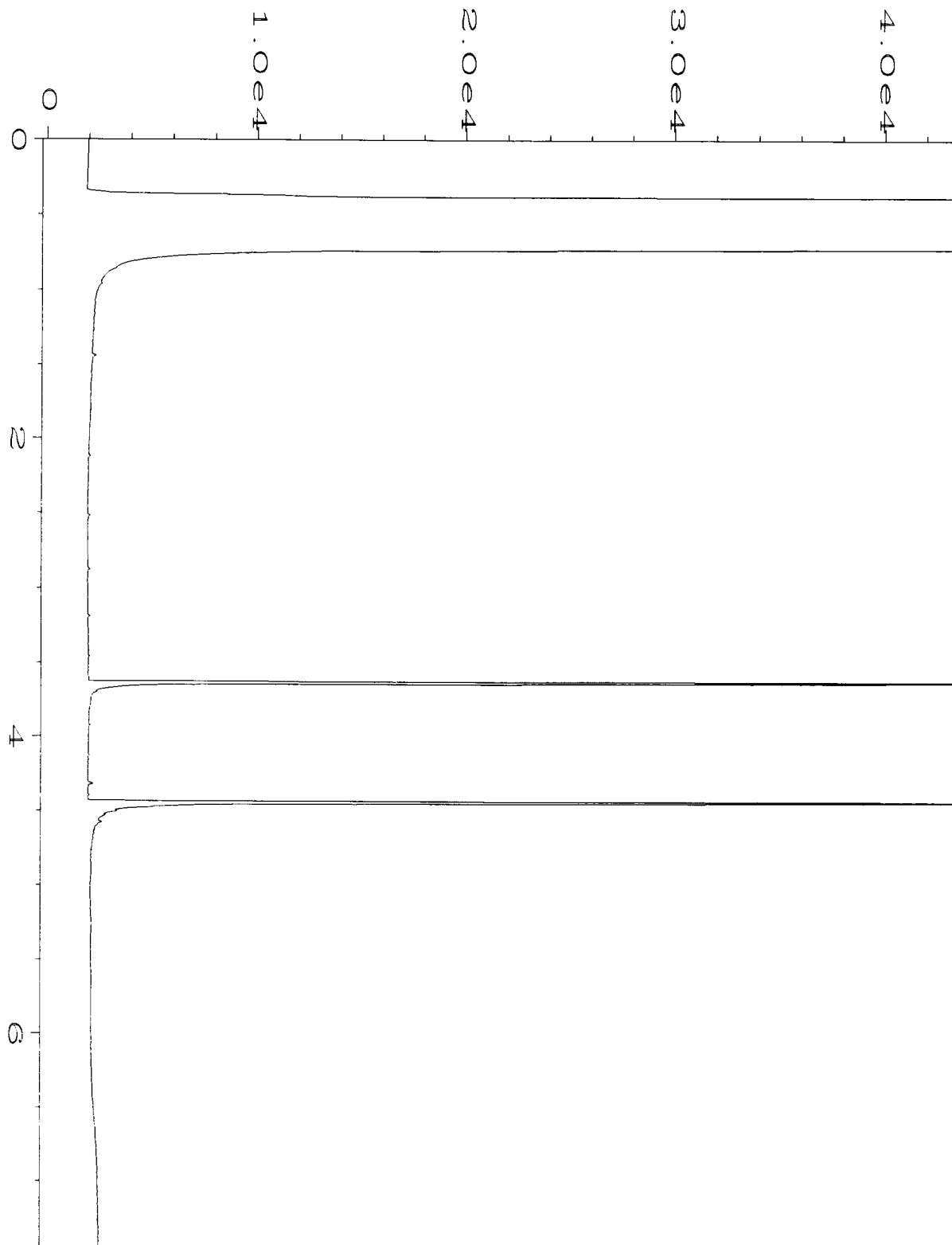
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Operator	: mwdl	Vial Number	: 48
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 601072-04	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 08 Jan 16 07:07 PM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:43 AM		



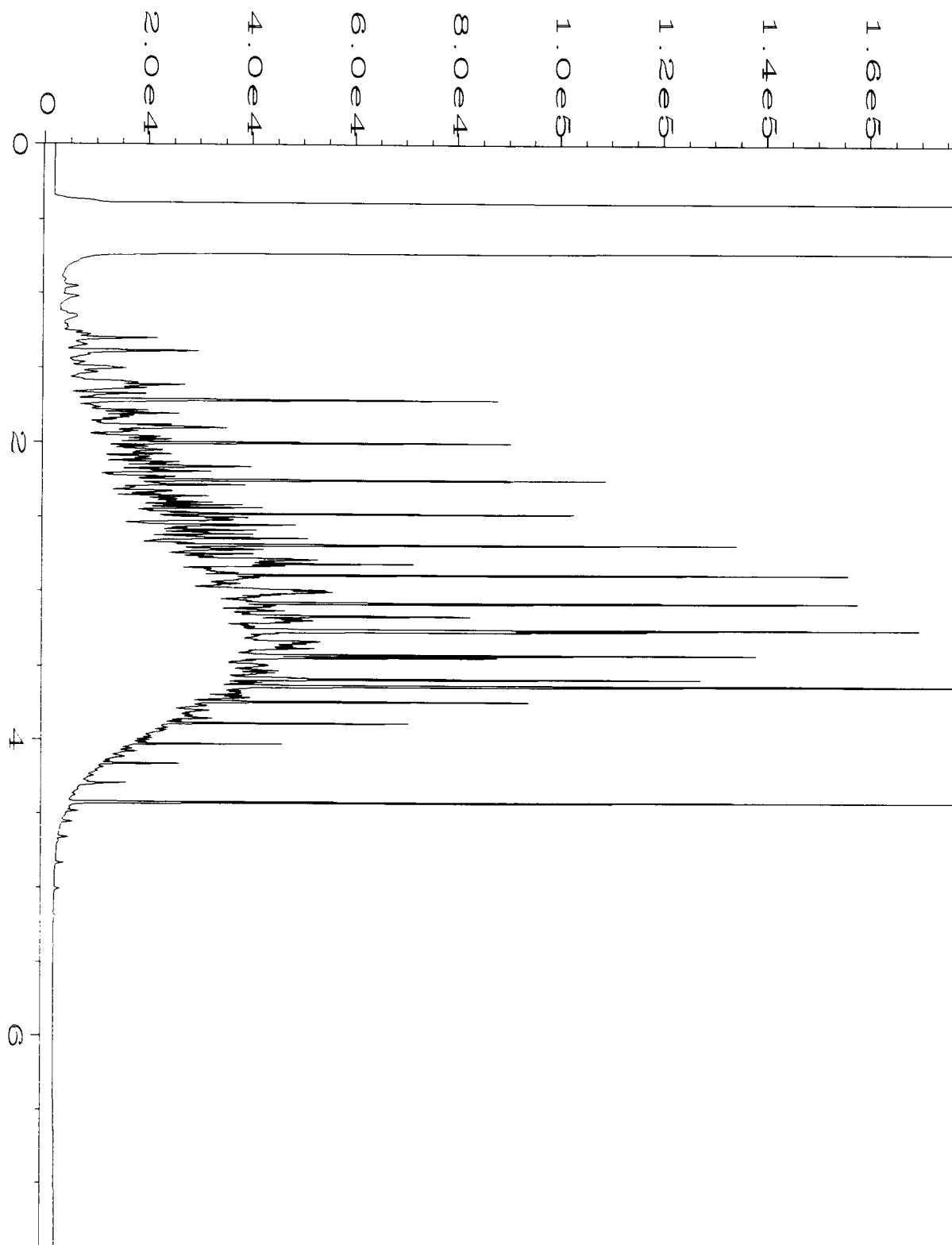
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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 601072-05	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 08 Jan 16 07:18 PM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:44 AM		



Data File Name	: C:\HPCHEM\4\DATA\01-08-16\050F1101.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 50
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 601072-06	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 08 Jan 16 07:30 PM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:44 AM		



Data File Name	: C:\HPCHEM\4\DATA\01-08-16\018F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 18
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-050 mb	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 08 Jan 16 12:35 PM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:44 AM		



Data File Name	: C:\HPCHEM\4\DATA\01-08-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 08 Jan 16 08:34 AM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:44 AM		

601072

SAMPLE CHA' OF CUSTODY

ME 1/8/16 VS1/A03

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) 	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS 1 low level detection limit of 0.01 mg/kg for EDC.* direct spray	GEMS Y / N

Page # <u>1</u> of <u>1</u>
TURNAROUND TIME Standard (2 Weeks) RUSH <u>48 hr.</u> Rush charges authorized by: <u>Chuck Cacek</u>
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED					Notes
								NWTPH-DX	NWTPH-Gx	BTEX by 8021B	CVOCs by 8260B/F		
UST01-BTM01-12	UST01 BTM	12'	01A	1/8/16	1026	SOIL	5	X			X		
UST01-SSW01-11	UST01 SSW	11'	02		1028		5	X					
UST01-WSW01-11	UST01 WSW	11'	03		1031		5	X					
UST01-ESW01-11	UST01 ESW	11'	04		1034		5	X					
UST01-NSW01-11	UST01 NSW	11'	05		1037		5	X					
UST01-ESW02-16	UST01 ESW	16'	06		1151		5	X					

Samples received at 2°C

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	JONATHAN LOEFFLER	SOUNDEARTH	1/8/16	1404
	Tom SAKSHAUG	FEDEx OFFICE	1/8/16	14:04
	Tom SAKSHAUG	FEDEx OFFICE	1/8/16	14:32
	Nkin Pham	FE BZ	1/8/16	14:32

***Friedman & Bruya, Inc. #601073***



FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

January 14, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on January 8, 2016 from the SOU\_1002-003\_ 20160108, F&BI 601073 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0114R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 8, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160108, F&BI 601073 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
601073 -01	VE16-N47-08

The 8260C calibration standard failed the acceptance criteria for 1,1-dichloroethene. In addition, the laboratory control sample and laboratory control sample duplicate failed below the acceptance criteria. The data were flagged accordingly.

Methylene chloride failed below the acceptance criteria in the matrix spike sample. In addition, the methylene chloride laboratory control sample and laboratory control sample duplicate failed the relative percent difference acceptance criteria. The laboratory control samples met the percent acceptance criteria and methylene chloride was not detected in the samples, therefore the results were acceptable.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/14/16

Date Received: 01/08/16

Project: SOU\_1002-003\_20160108, F&BI 601073

Date Extracted: 01/08/16

Date Analyzed: 01/08/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
VE16-N47-08 601073-01	10,000	6,200	86
Method Blank 06-050 MB	<50	<250	94

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	VE16-N47-08	Client:	SoundEarth Strategies
Date Received:	01/08/16	Project:	SOU_1002-003_20160108, F&BI 601073
Date Extracted:	01/11/16	Lab ID:	601073-01
Date Analyzed:	01/11/16	Data File:	011116.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.02 ca
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1002-003_ 20160108, F&BI 601073
Date Extracted:	01/11/16	Lab ID:	06-059 mb
Date Analyzed:	01/11/16	Data File:	011111.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	90	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.02 ca
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/14/16

Date Received: 01/08/16

Project: SOU\_1002-003\_20160108, F&BI 601073

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL  
USING METHOD NWTPH-Dx**

Laboratory Code: 601046-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel	mg/kg (ppm)	500	<50	117	111	73-135	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel	mg/kg (ppm)	500	119	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/14/16

Date Received: 01/08/16

Project: SOU\_1002-003\_20160108, F&BI 601073

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR VOLATILES BY EPA METHOD 8260C SIM**

Laboratory Code: 601074-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppb)	0.2	<0.01	52	50-150
Chloroethane	mg/kg (ppb)	0.2	<0.01	62	50-150
1,1-Dichloroethene	mg/kg (ppb)	0.2	<0.02 ca	80	50-150
Methylene chloride	mg/kg (ppb)	0.2	<0.5	18 vo	50-150
trans-1,2-Dichloroethene	mg/kg (ppb)	0.2	<0.01	65	50-150
1,1-Dichloroethane	mg/kg (ppb)	0.2	<0.01	93	50-150
cis-1,2-Dichloroethene	mg/kg (ppb)	0.2	<0.01	84	50-150
1,2-Dichloroethane (EDC)	mg/kg (ppb)	0.2	<0.01	71	50-150
1,1,1-Trichloroethane	mg/kg (ppb)	0.2	<0.01	80	50-150
Trichloroethene	mg/kg (ppb)	0.2	<0.01	82	50-150
Tetrachloroethene	mg/kg (ppb)	0.2	<0.01	94	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 0.20)
Vinyl chloride	mg/kg (ppb)	0.2	78	81	70-130	4
Chloroethane	mg/kg (ppb)	0.2	80	85	70-130	6
1,1-Dichloroethene	mg/kg (ppb)	0.2	57 vo ca	60 vo ca	70-130	5
Methylene chloride	mg/kg (ppb)	0.2	83	111	70-130	29 vo
trans-1,2-Dichloroethene	mg/kg (ppb)	0.2	120	111	70-130	8
1,1-Dichloroethane	mg/kg (ppb)	0.2	79	91	70-130	14
cis-1,2-Dichloroethene	mg/kg (ppb)	0.2	92	100	70-130	8
1,2-Dichloroethane (EDC)	mg/kg (ppb)	0.2	79	90	70-130	13
1,1,1-Trichloroethane	mg/kg (ppb)	0.2	96	102	70-130	6
Trichloroethene	mg/kg (ppb)	0.2	91	97	70-130	6
Tetrachloroethene	mg/kg (ppb)	0.2	99	99	70-130	0

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

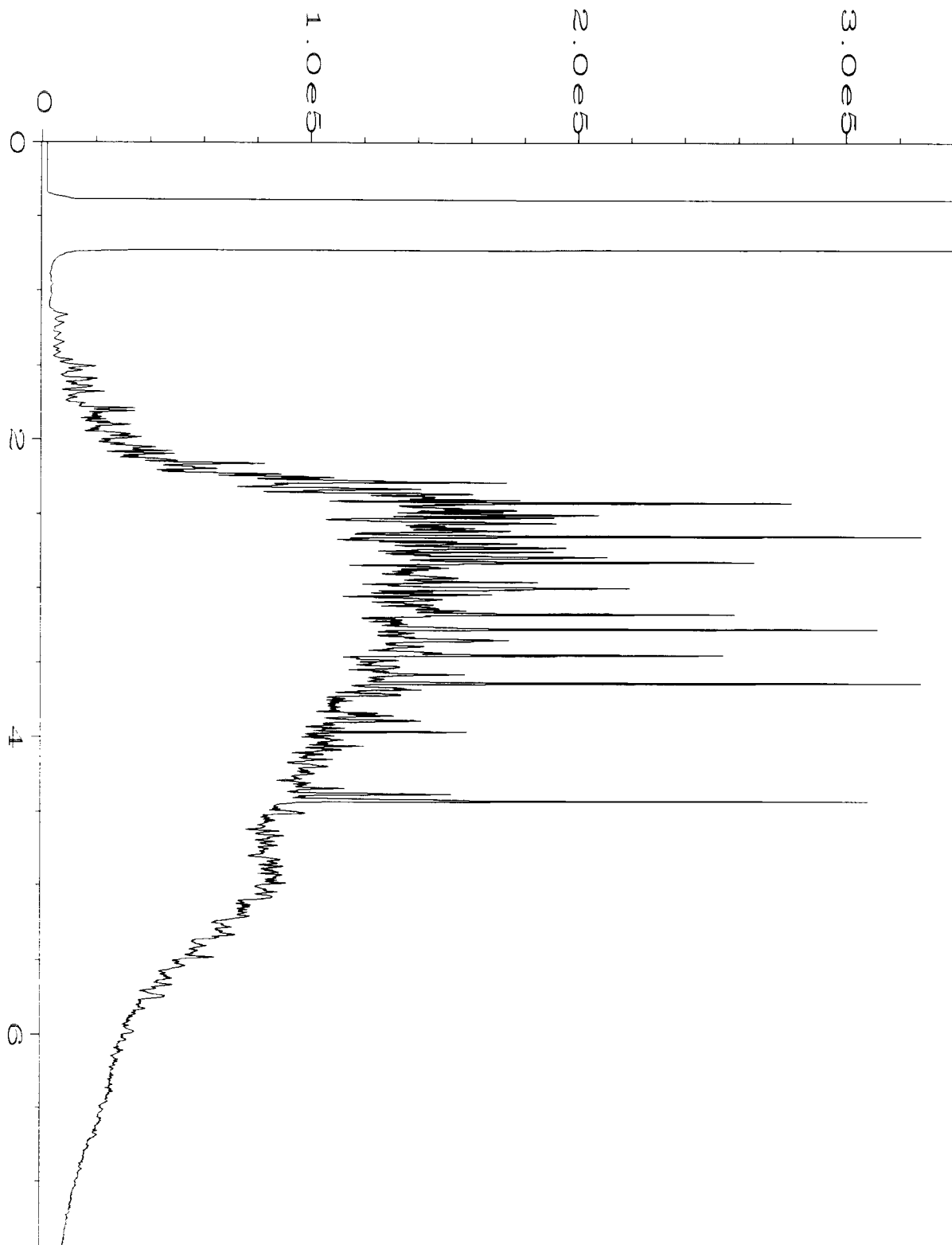
pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

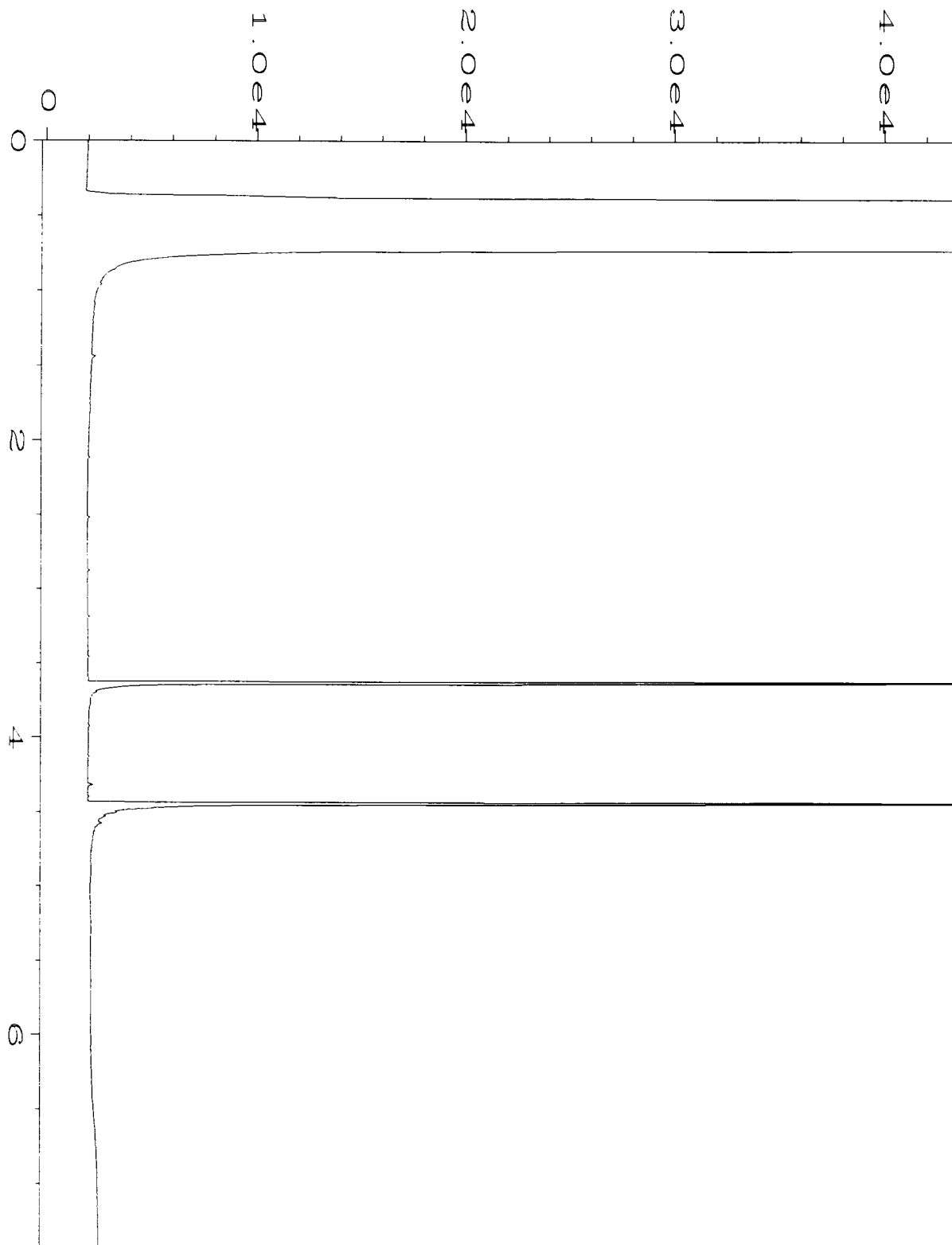
vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

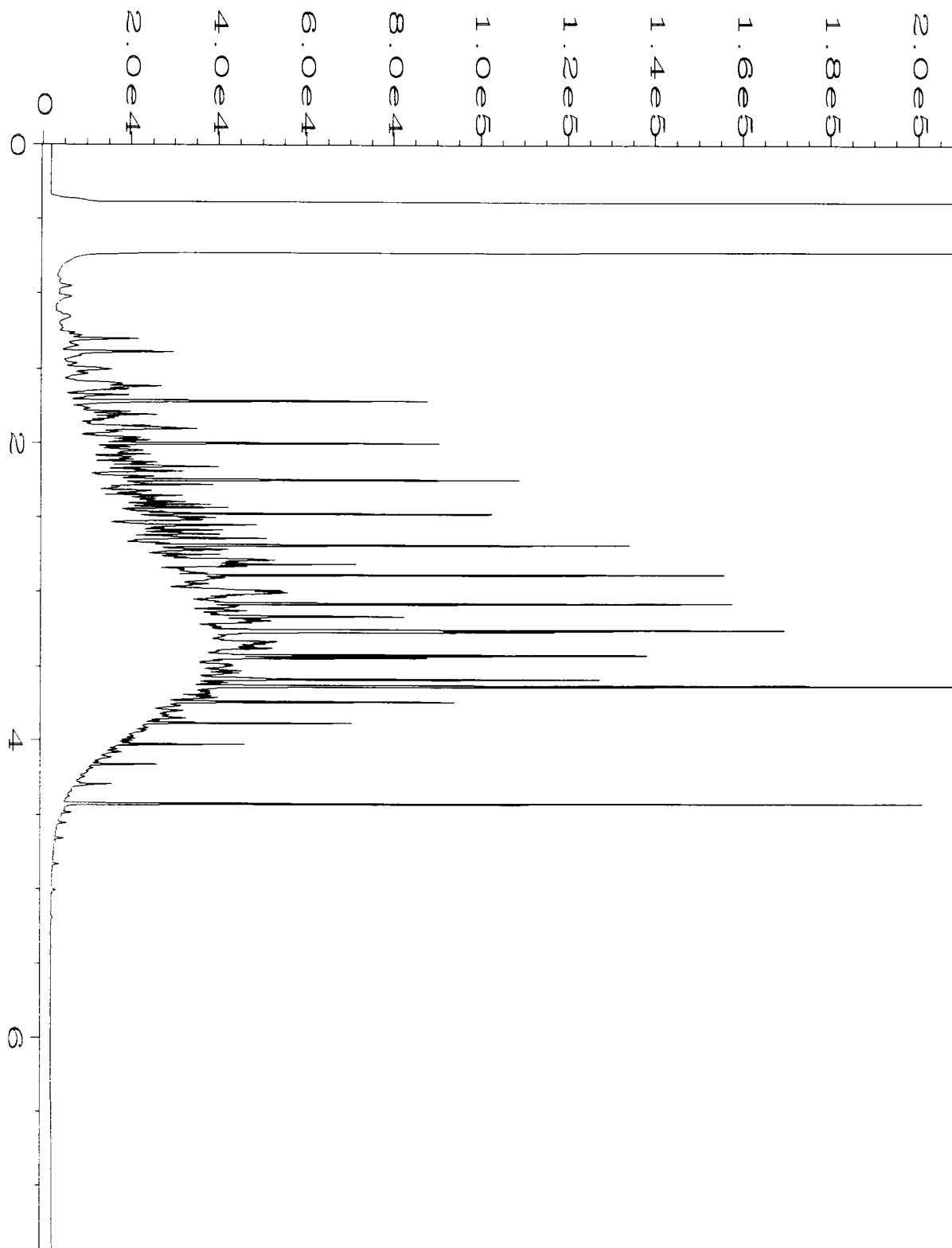




Data File Name	: C:\HPCHEM\4\DATA\01-08-16\053F1101.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 53
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 601073-01	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 08 Jan 16 08:05 PM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:47 AM		



Data File Name	: C:\HPCHEM\4\DATA\01-08-16\018F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 18
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-050 mb	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 08 Jan 16 12:35 PM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:47 AM		



Data File Name	: C:\HPCHEM\4\DATA\01-08-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 08 Jan 16 08:34 AM	Analysis Method	: DX.MTH
Report Created on:	11 Jan 16 09:47 AM		

601073

SAMPLE CHAIN OF CUSTODY

ME 01-08-16

ADJ/USJ

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler
Company SoundEarth Strategies, Inc.
Address 2811 Fairview Avenue East, Suite 2000
City, State, ZIP Seattle, Washington 98102
Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature)
PROJECT NAME/NO. MADISON TACO TIME 1002-003
REMARKS low level detection limit of 0.01 mg/kg for EDC.
GEMS Y / N

TURNAROUND TIME
Standard (2 Weeks)
RUSH 48 hrs
Rush charges authorized by: Chuck Cacek
SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

Table with columns: Sample ID, Sample Location, Sample Depth, Lab ID, Date Sampled, Time Sampled, Matrix, # of Jars, NWTPH-DX, NWTPH-GX, BTEX by 8021B, CVOCS by 8260B, Notes. Includes handwritten entry for VE16-N47-08 and a large diagonal signature across the table.

Samples received at 2 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Table with columns: SIGNATURE, PRINT NAME, COMPANY, DATE, TIME. Contains four rows of signature and name entries.

***Friedman & Bruya, Inc. #601074***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

January 14, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on January 8, 2016 from the SOU\_1002-03\_ 20160108, F&BI 601074 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0114R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 8, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-03\_20160108, F&BI 601074 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
601074 -01	VE16-N24-06
601074 -02	VE18-N26-06

The 8260C calibration standard failed the acceptance criteria for 1,1-dichloroethene. In addition, the laboratory control sample and laboratory control sample duplicate failed below the acceptance criteria. The data were flagged accordingly.

Methylene chloride failed below the acceptance criteria in the matrix spike sample. In addition, the methylene chloride laboratory control sample and laboratory control sample duplicate failed the relative percent difference acceptance criteria. The laboratory control samples met the percent acceptance criteria and methylene chloride was not detected in the samples, therefore the results were acceptable.

All other quality control requirements were acceptable.

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	VE16-N24-06	Client:	SoundEarth Strategies
Date Received:	01/08/16	Project:	SOU_1002-03_20160108, F&BI 601074
Date Extracted:	01/11/16	Lab ID:	601074-01
Date Analyzed:	01/11/16	Data File:	011117.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.02 ca
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	VE18-N26-06	Client:	SoundEarth Strategies
Date Received:	01/08/16	Project:	SOU_1002-03_20160108, F&BI 601074
Date Extracted:	01/11/16	Lab ID:	601074-02
Date Analyzed:	01/11/16	Data File:	011118.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.02 ca
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1002-03_20160108, F&BI 601074
Date Extracted:	01/11/16	Lab ID:	06-059 mb
Date Analyzed:	01/11/16	Data File:	011111.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	90	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.01
Chloroethane	<0.01
1,1-Dichloroethene	<0.02 ca
Methylene chloride	<0.5
trans-1,2-Dichloroethene	<0.01
1,1-Dichloroethane	<0.01
cis-1,2-Dichloroethene	<0.01
1,2-Dichloroethane (EDC)	<0.01
1,1,1-Trichloroethane	<0.01
Trichloroethene	<0.01
Tetrachloroethene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/14/16

Date Received: 01/08/16

Project: SOU\_1002-03\_ 20160108, F&BI 601074

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR VOLATILES BY EPA METHOD 8260C SIM**

Laboratory Code: 601074-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	mg/kg (ppb)	0.2	<0.01	52	50-150
Chloroethane	mg/kg (ppb)	0.2	<0.01	62	50-150
1,1-Dichloroethene	mg/kg (ppb)	0.2	<0.02 ca	80	50-150
Methylene chloride	mg/kg (ppb)	0.2	<0.5	18 vo	50-150
trans-1,2-Dichloroethene	mg/kg (ppb)	0.2	<0.01	65	50-150
1,1-Dichloroethane	mg/kg (ppb)	0.2	<0.01	93	50-150
cis-1,2-Dichloroethene	mg/kg (ppb)	0.2	<0.01	84	50-150
1,2-Dichloroethane (EDC)	mg/kg (ppb)	0.2	<0.01	71	50-150
1,1,1-Trichloroethane	mg/kg (ppb)	0.2	<0.01	80	50-150
Trichloroethene	mg/kg (ppb)	0.2	<0.01	82	50-150
Tetrachloroethene	mg/kg (ppb)	0.2	<0.01	94	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 0.20)
Vinyl chloride	mg/kg (ppb)	0.2	78	81	70-130	4
Chloroethane	mg/kg (ppb)	0.2	80	85	70-130	6
1,1-Dichloroethene	mg/kg (ppb)	0.2	57 vo ca	60 vo ca	70-130	5
Methylene chloride	mg/kg (ppb)	0.2	83	111	70-130	29 vo
trans-1,2-Dichloroethene	mg/kg (ppb)	0.2	120	111	70-130	8
1,1-Dichloroethane	mg/kg (ppb)	0.2	79	91	70-130	14
cis-1,2-Dichloroethene	mg/kg (ppb)	0.2	92	100	70-130	8
1,2-Dichloroethane (EDC)	mg/kg (ppb)	0.2	79	90	70-130	13
1,1,1-Trichloroethane	mg/kg (ppb)	0.2	96	102	70-130	6
Trichloroethene	mg/kg (ppb)	0.2	91	97	70-130	6
Tetrachloroethene	mg/kg (ppb)	0.2	99	99	70-130	0

# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

601074

SAMPLE CHAIN OF CUSTODY ME 01-08-16

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler  
Company SoundEarth Strategies, Inc.  
Address 2811 Fairview Avenue East, Suite 2000  
City, State, ZIP Seattle, Washington 98102  
Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) <i>Jonathan Loeffler</i>	
PROJECT NAME/NO: MADISON TACO TIME 1002-003	PO #
REMARKS direct sparge method low level detection limit of 0.01 mg/kg for EDC.	GEMS Y / N

Page # 1 of 1 *ET/US*

TURNAROUND TIME  
Standard (2 Weeks)  
RUSH 48 hrs.  
Rush charges authorized by:  
Chuck Cacek

SAMPLE DISPOSAL  
Dispose after 30 days  
Return samples  
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED					Notes
								NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	CVOCs by 8260B1+	HOLD	
VE16-N24-06	VE16-N24	6'	01A-E17/16	1126	SOIL	5					X		*direct sparge
VE18-N26-06	VE18-N26	6'	02A-E17/16	1129	SOIL	5					X		*direct sparge
<i>off 4/7/16</i>													

Samples received at 2 °C

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<i>[Signature]</i>	JONATHAN LOEFFLER	SOUNDEARTH	1/8/16	14:04
<i>[Signature]</i>	Tom SAKSHAUG	FEDEX OFFICE	1/8/16	14:04
<i>[Signature]</i>	Tom SAKSHAUG	FEDEX OFFICE	1/8/16	14:32
<i>[Signature]</i>	Ngan Phan	FBI	1/8/16	14:32

***Friedman & Bruya, Inc. #601101***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

January 15, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on January 11, 2016 from the SOU\_1002-003\_20160111, F&BI 601101 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Chuck Cacek, Jonathan Loeffler  
SOU0115R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 11, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160111, F&BI 601101 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
601101 -01	VE17-N46-08
601101 -02	VE17-N46-10
601101 -03	VE17-N46-12
601101 -04	VE17-N46-14
601101 -05	VE17-N46-16
601101 -06	VE17-N46-18
601101 -07	VE17-N46-20

All quality control requirements were acceptable.



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/15/16  
Date Received: 01/11/16  
Project: SOU\_1002-003\_20160111, F&BI 601101  
Date Extracted: 01/12/16  
Date Analyzed: 01/12/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 56-165)
VE17-N46-12 601101-03	5,700	<250	76
VE17-N46-14 601101-04	5,300	<250	85
VE17-N46-20 601101-07	180	<250	75
Method Blank 06-062 MB	<50	<250	79

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/15/16

Date Received: 01/11/16

Project: SOU\_1002-003\_20160111, F&BI 601101

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 601102-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	89	93	63-146	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	90	79-144

# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

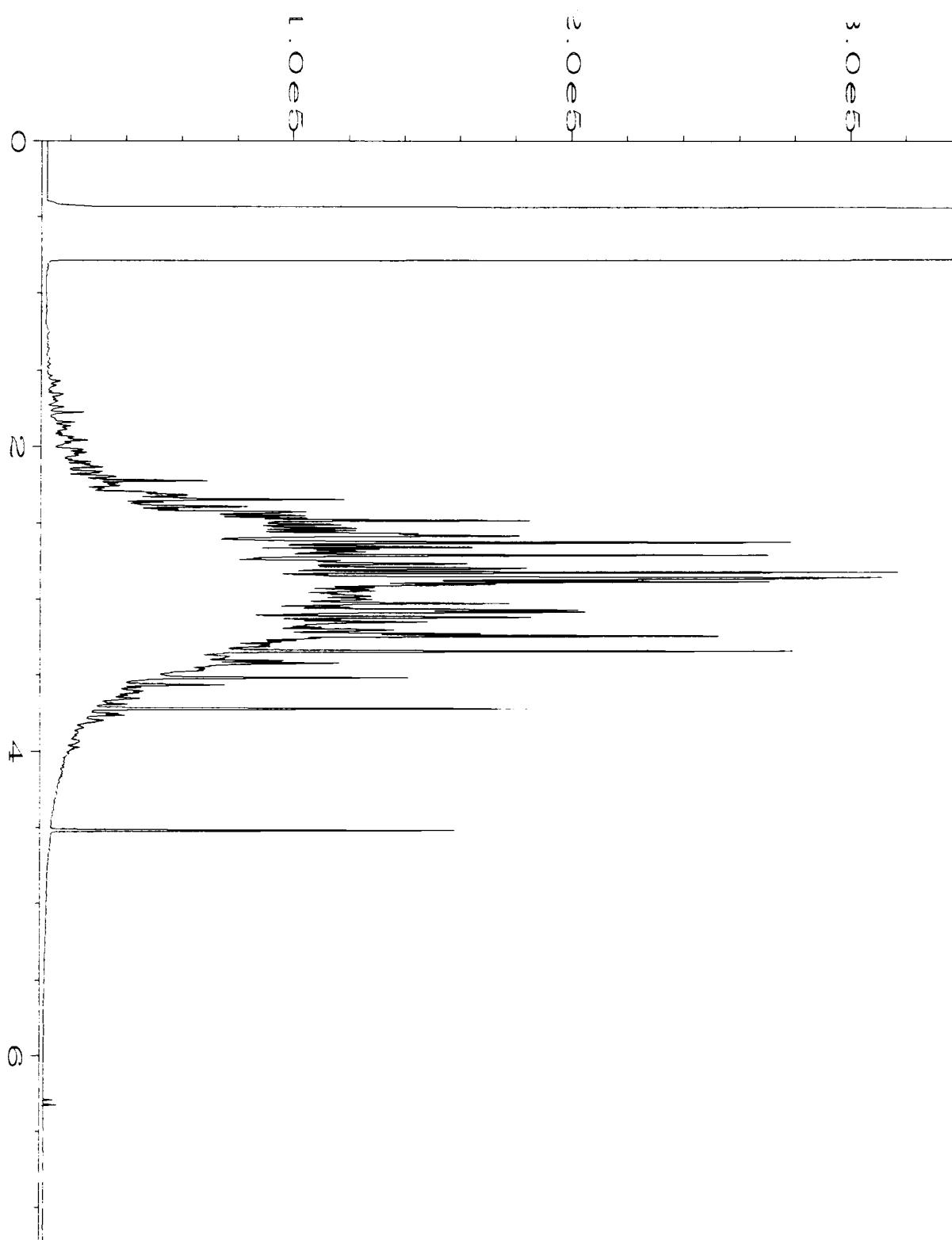
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

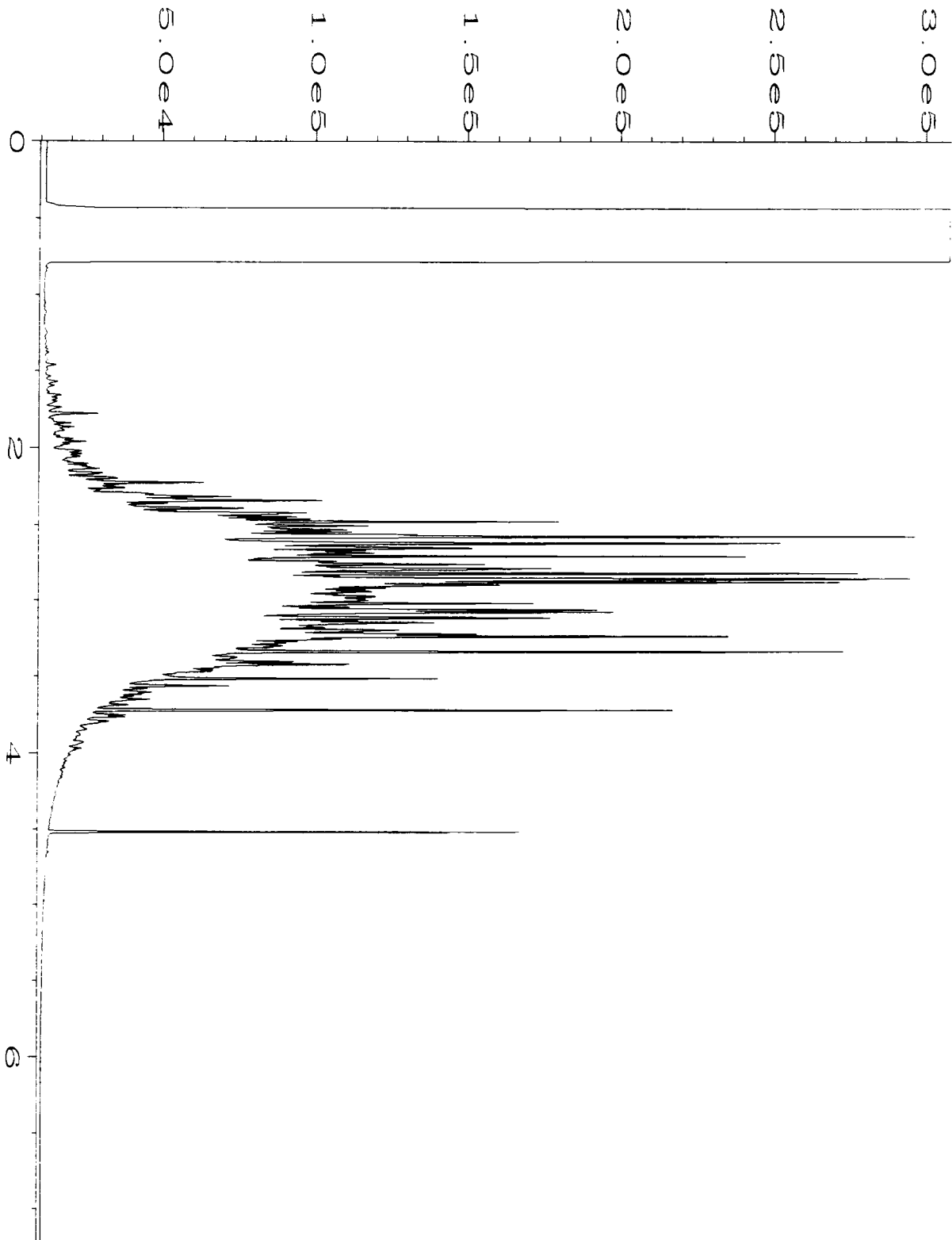
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

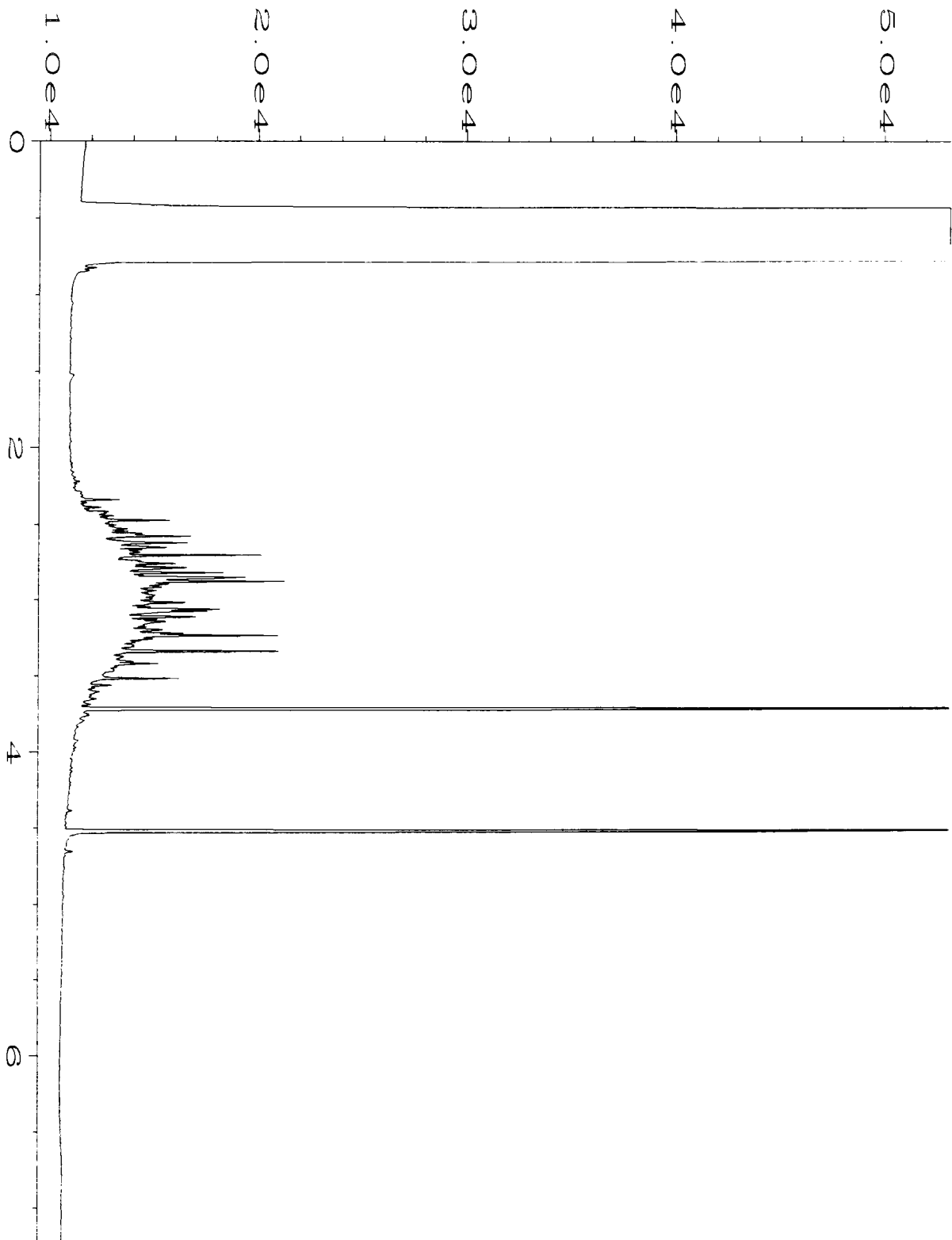
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Data File Name	: C:\HPCHEM\1\DATA\01-12-16\023F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 23
Instrument	: GC1	Injection Number	: 1
Sample Name	: 601101-03	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 12 Jan 16 01:55 PM	Analysis Method	: DX.MTH
Report Created on:	13 Jan 16 10:34 AM		



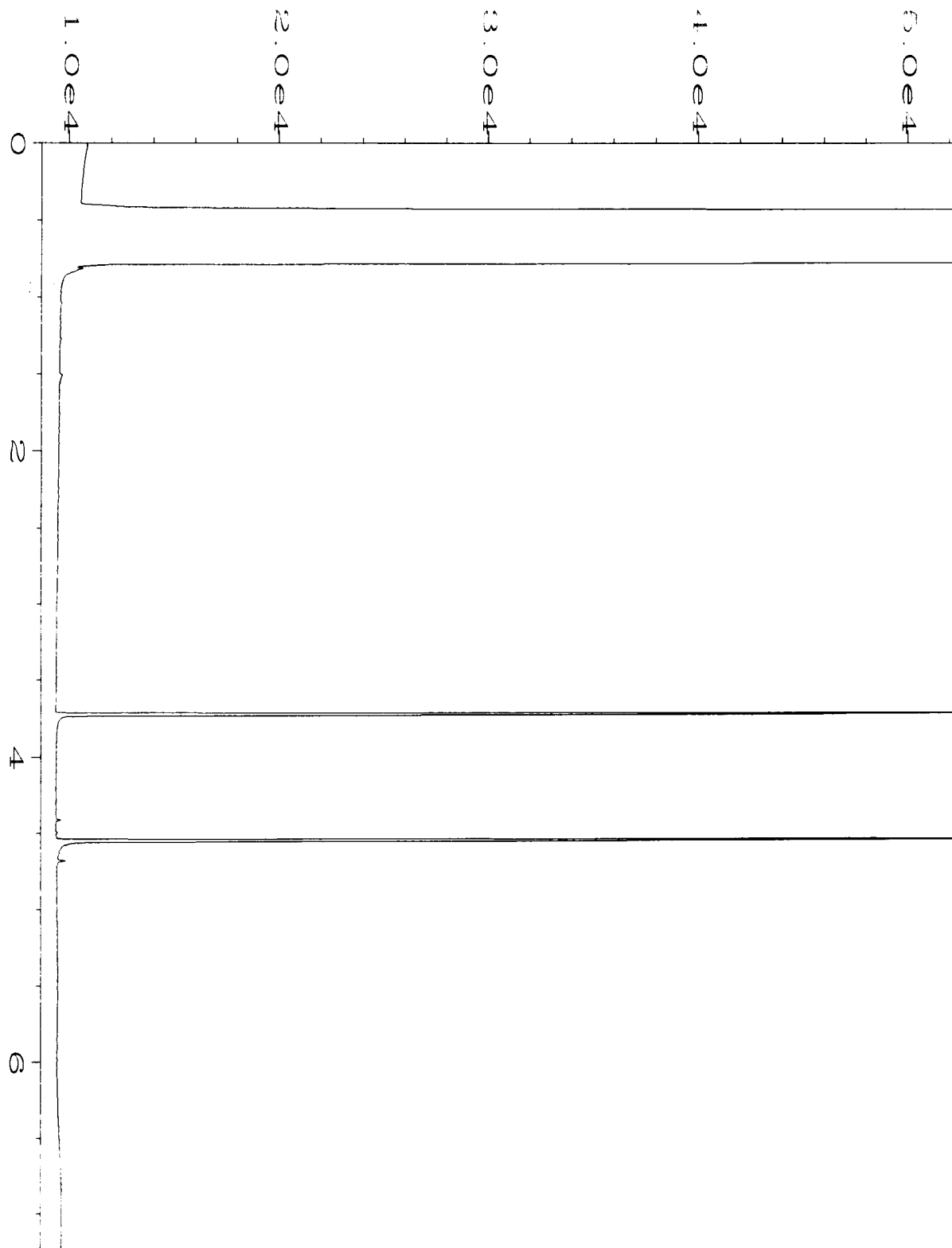
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Instrument	: GC1	Injection Number	: 1
Sample Name	: 601101-04	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 12 Jan 16 02:06 PM	Analysis Method	: DX.MTH
Report Created on:	13 Jan 16 10:35 AM		



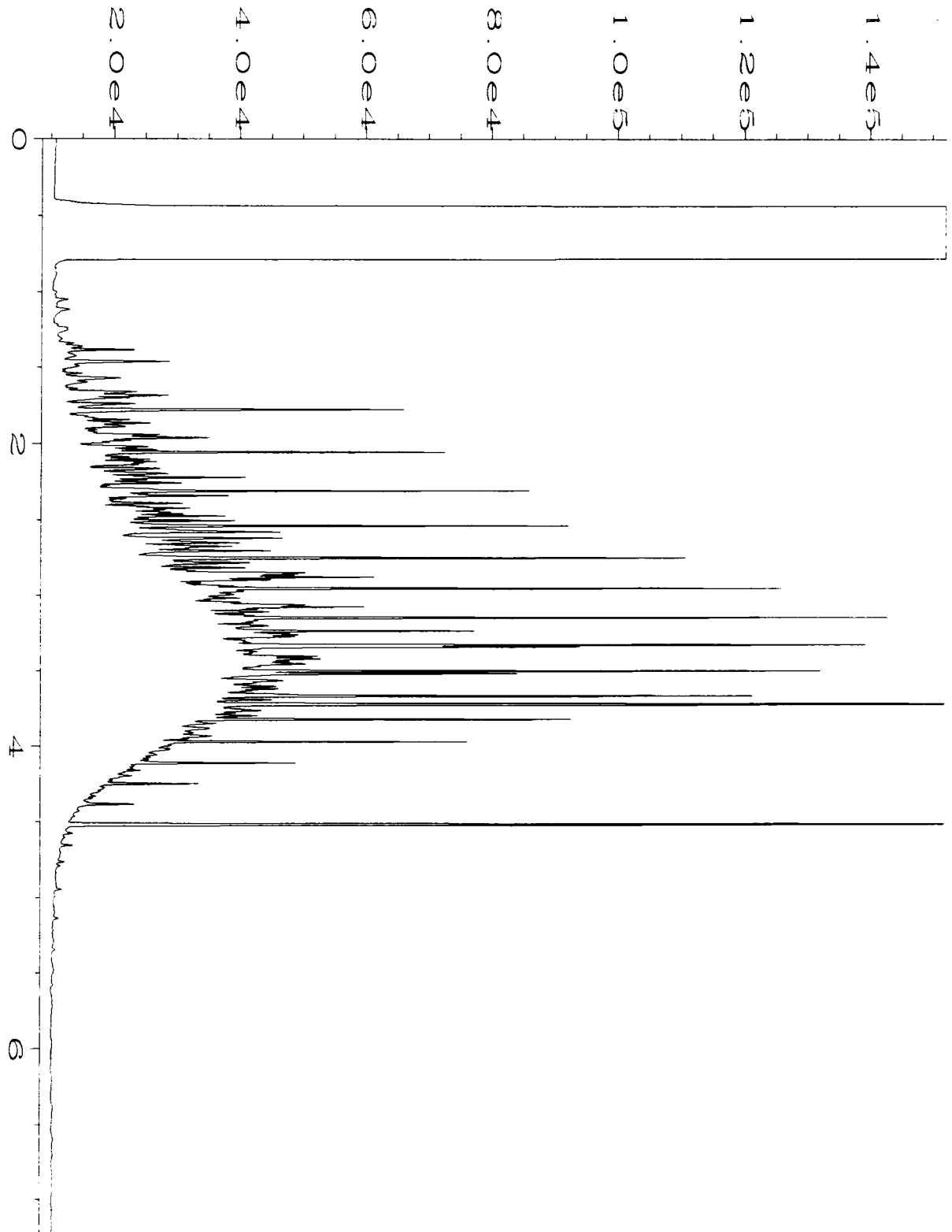
Data File Name	: C:\HPCHEM\1\DATA\01-12-16\025F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 25
Instrument	: GC1	Injection Number	: 1
Sample Name	: 601101-07	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 12 Jan 16 02:17 PM	Analysis Method	: DX.MTH
Report Created on:	13 Jan 16 10:35 AM		

Sample Name  
Run Date  
Acquired on  
Report

Page



Data File Name	: C:\HPCHEM\1\DATA\01-12-16\007F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 7
Instrument	: GC1	Injection Number	: 1
Sample Name	: 06-062 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 12 Jan 16 10:10 AM	Analysis Method	: DX.MTH
Report Created on:	: 13 Jan 16 10:35 AM		



Data File Name	: C:\HPCHEM\1\DATA\01-12-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 12 Jan 16 08:46 AM	Analysis Method	: DX.MTH
Report Created on:	13 Jan 16 10:36 AM		



601101

SAMPLE CHA' OF CUSTODY

ME 01-11-16

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler  
 Company SoundEarth Strategies, Inc.  
 Address 2811 Fairview Avenue East, Suite 2000  
 City, State, ZIP Seattle, Washington 98102  
 Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) <i>[Signature]</i>	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS *direct spurge low level detection limit of 0.01 mg/kg for EDC.	GEMS Y / N

Page # 1 of 1 US2/

TURNAROUND TIME  
 Standard (2 Weeks)  
 X RUSH 48 hr. TAT  
 Rush charges authorized by:  
Chuck Cacek

SAMPLE DISPOSAL  
 Dispose after 30 days  
 Return samples  
 Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED					Notes	
								NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	CVOCs by 8260B			
VE17-N46-08	VE17-N46	8'	01A-B	1/11/16		SOIL	5							X - Hold CVOCs
VE17-N46-10	VE17-N46	10'	02				5				X			per CC
VE17-N46-12	VE17-N46	12'	03				5	X			X			1/12/16
VE17-N46-14	VE17-N46	14'	04				5	X			X			MA
VE17-N46-16	VE17-N46	16'	05				5				X			
VE17-N46-18	VE17-N46	18'	06				5				X			
VE17-N46-20	VE17-N46	20'	07				5	X			X			
<i>[Signature]</i> 1/11/16														

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>[Signature]</i>	JONATHAN LOEFFLER	SOUNDEARTH	1/11/16	1719
Received by: <i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	1/11/16	1717
Relinquished by:				
Received by:				

Samples received at 2 °C

***Friedman & Bruya, Inc. #601207***

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

January 26, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on January 19, 2016 from the SOU\_1002-003\_ 20160119, F&BI 601207 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Chuck Cacek, Jonathan Loeffler  
SOU0126R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 19, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160119, F&BI 601207 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
601207 -01	UST02-BTM01-12
601207 -02	UST02-WSW01-11
601207 -03	UST02-ESW01-11
601207 -04	UST02-SSW01-11
601207 -05	UST02-NSW01-11

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/26/16  
Date Received: 01/19/16  
Project: SOU\_1002-003\_20160119, F&BI 601207  
Date Extracted: 01/25/16  
Date Analyzed: 01/25/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> (% Recovery) (Limit 56-165)
UST02-BTM01-12 601207-01	3,900	<250	85
UST02-WSW01-11 601207-02	11,000	<250	123
UST02-ESW01-11 601207-03	4,500	<250	80
UST02-SSW01-11 601207-04	18,000	350 x	ip
UST02-NSW01-11 601207-05	730	<250	85
Method Blank 06-145 MB	<50	<250	96

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/26/16

Date Received: 01/19/16

Project: SOU\_1002-003\_20160119, F&BI 601207

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 601292-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	112	118	63-146	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	112	79-144

# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

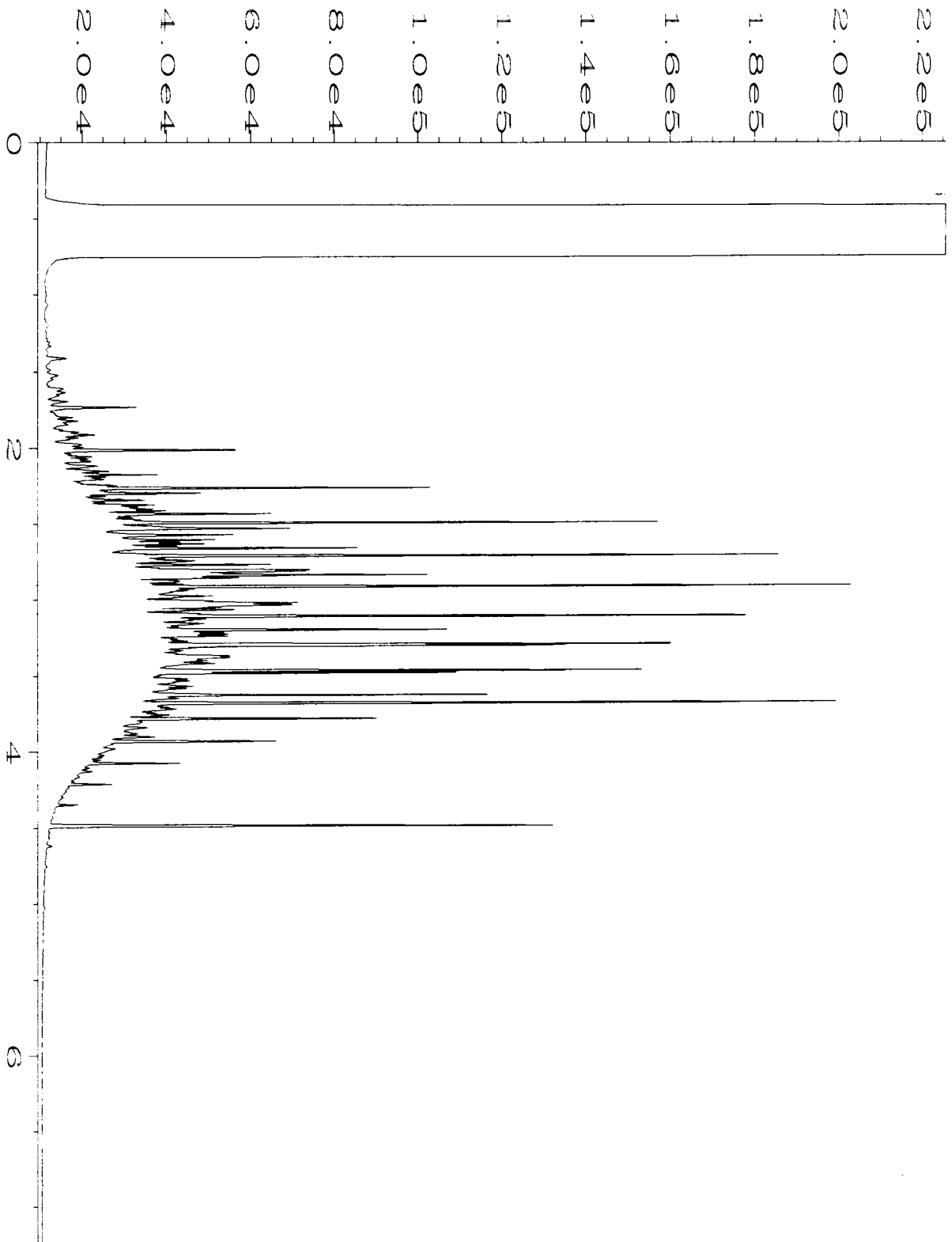
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

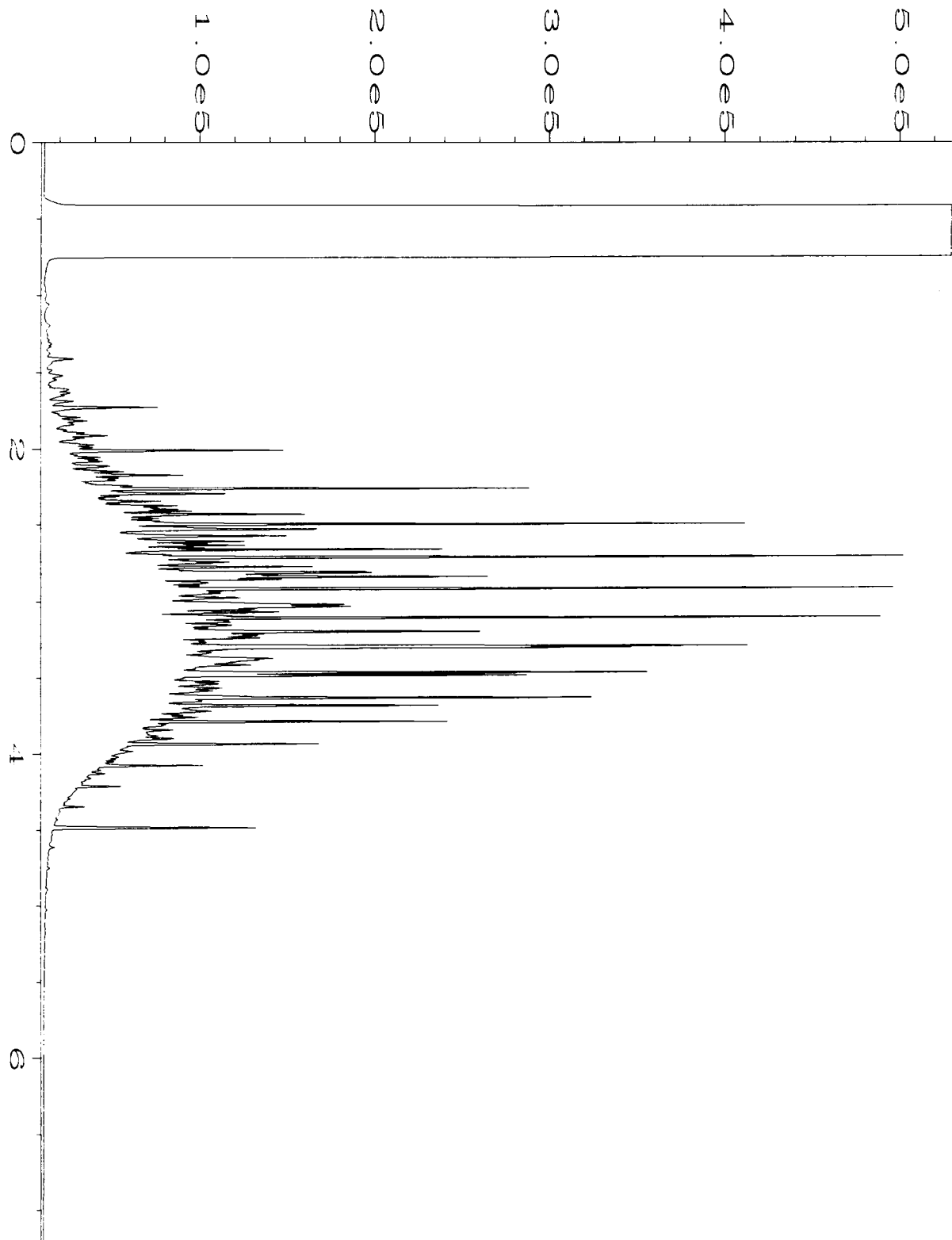
vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

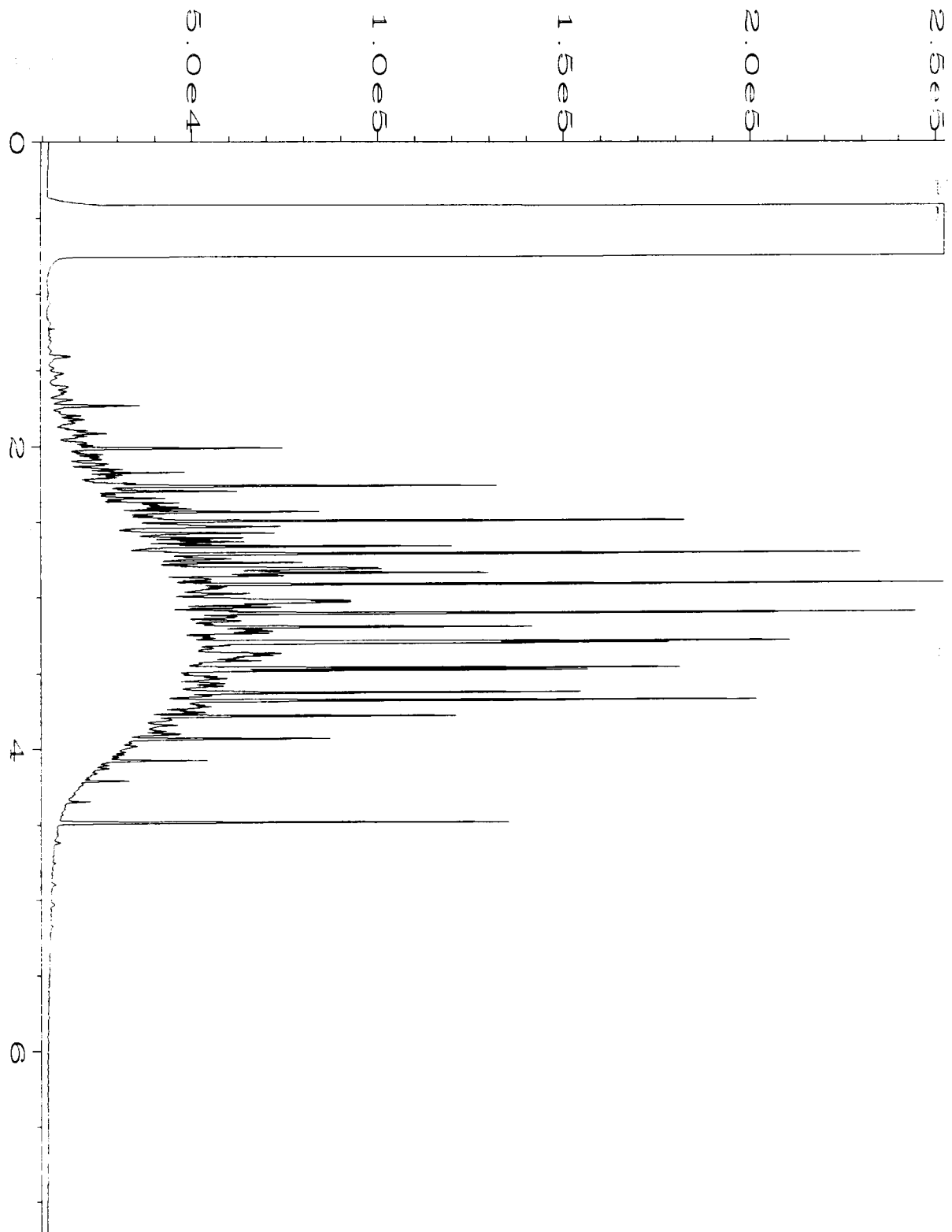


Data File Name	: C:\HPCHEM\1\DATA\01-25-16\012F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 12
Instrument	: GC1	Injection Number	: 1
Sample Name	: 601207-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 10:36 AM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 11:51 AM		

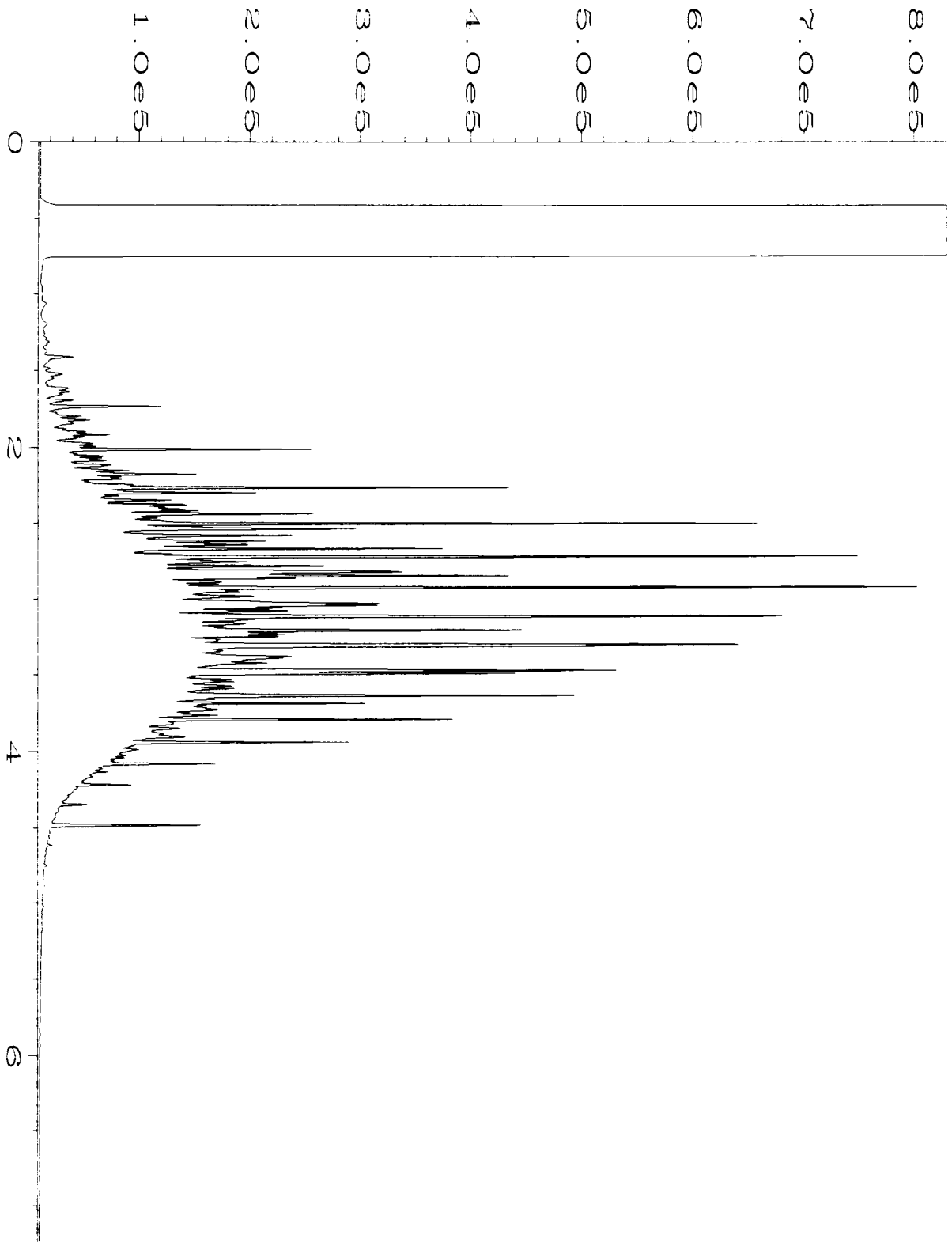




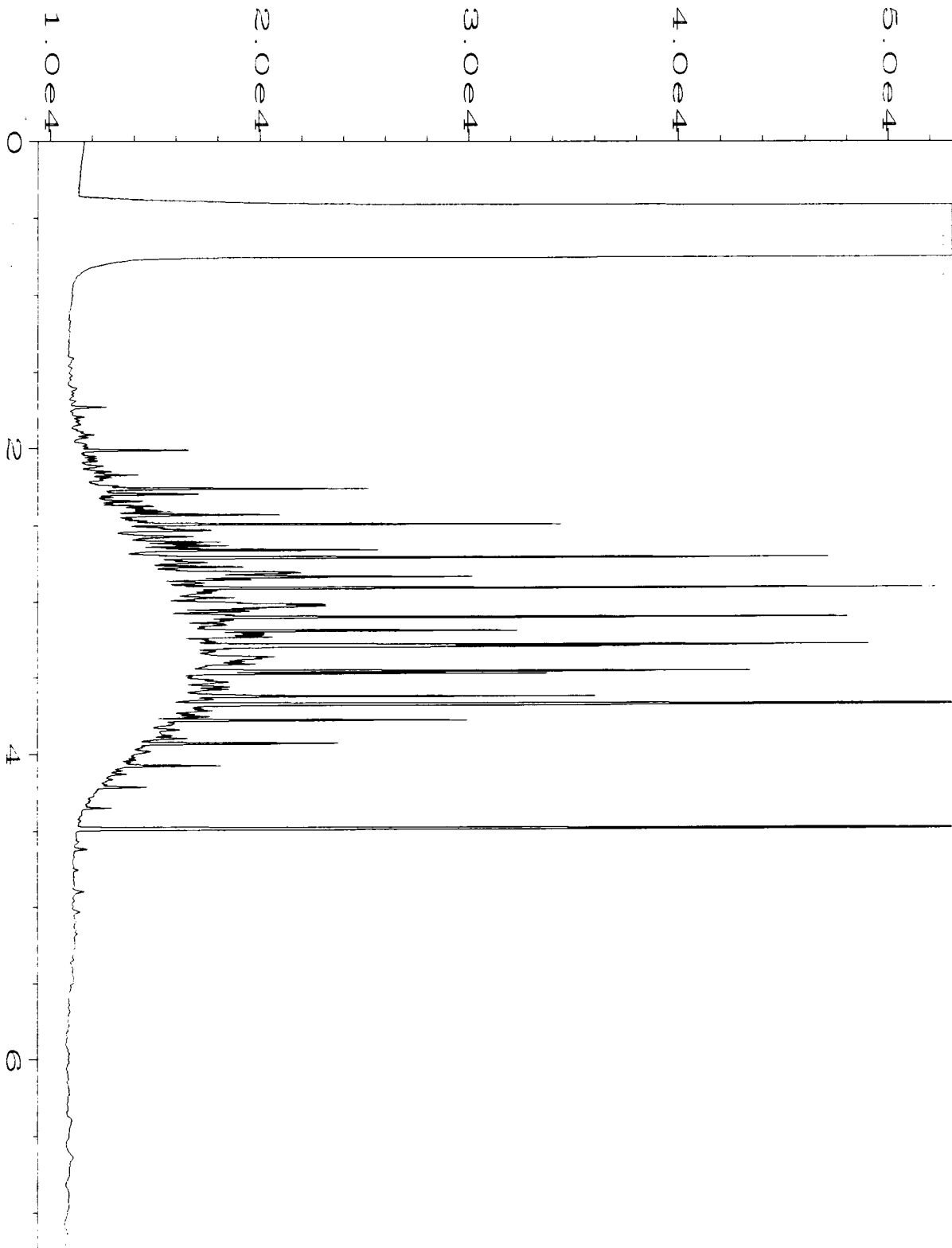
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Operator	: mwdl	Vial Number	: 13
Instrument	: GC1	Injection Number	: 1
Sample Name	: 601207-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 10:47 AM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 11:51 AM		



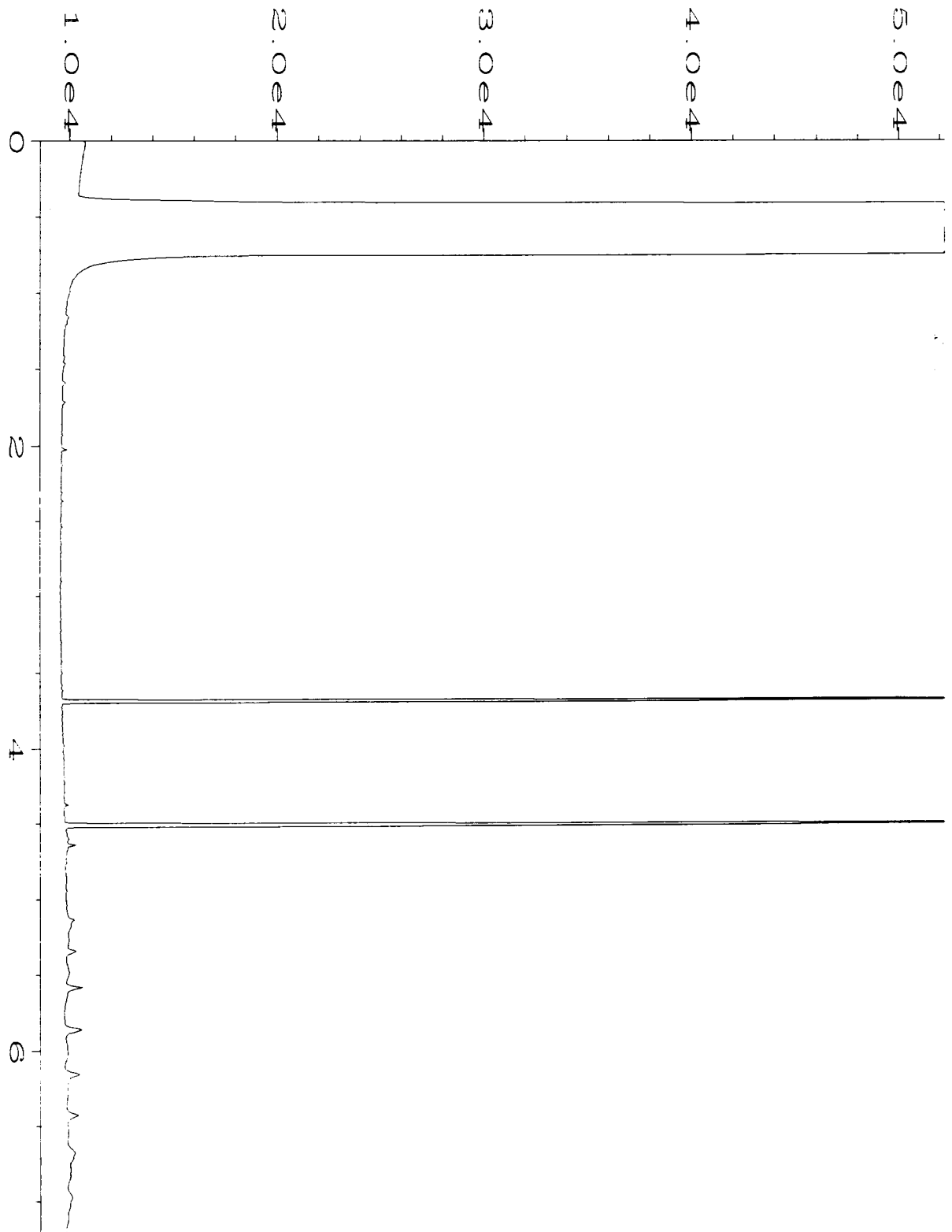
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Operator	: mwdl	Vial Number	: 14
Instrument	: GC1	Injection Number	: 1
Sample Name	: 601207-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 10:58 AM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 11:51 AM		



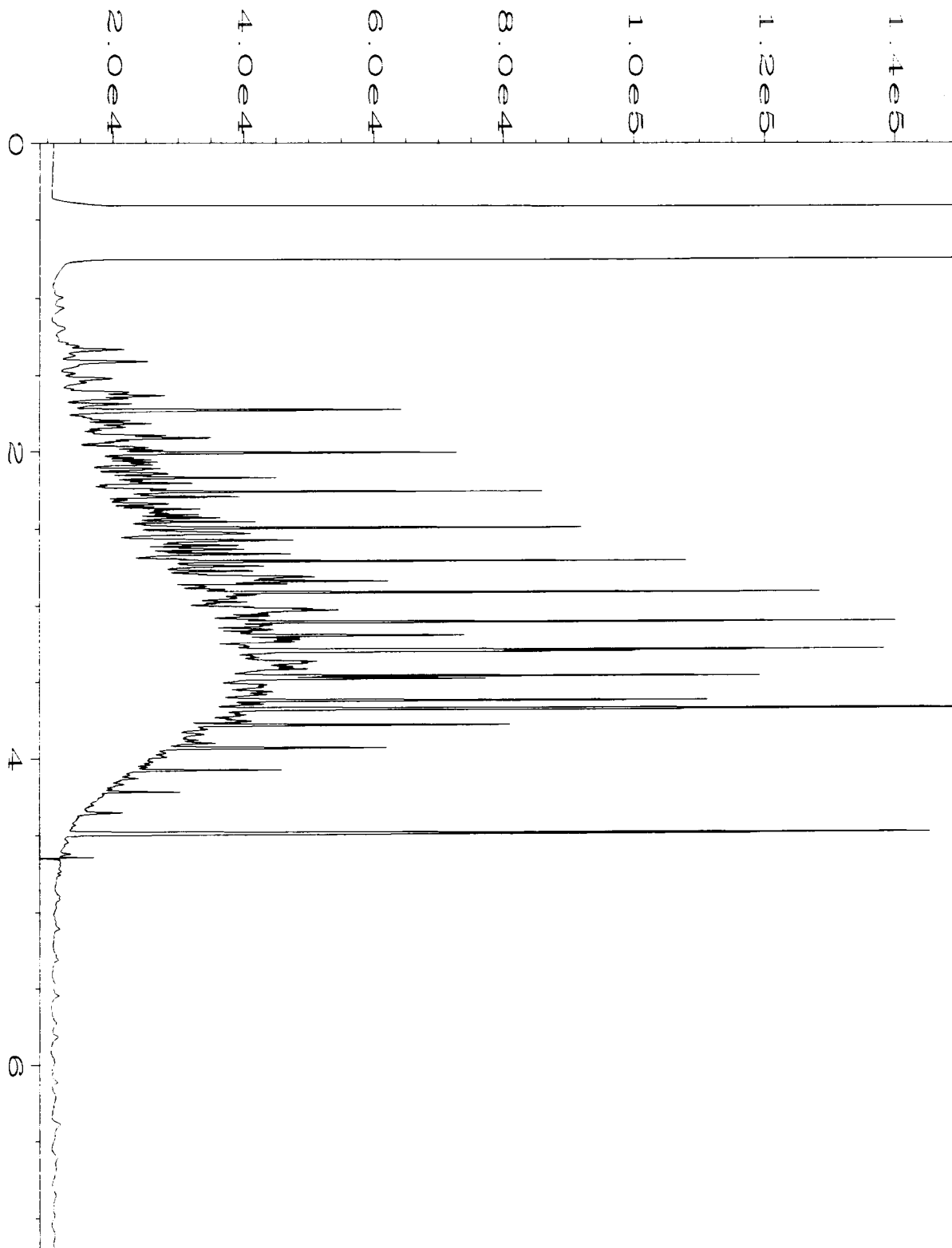
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Operator	: mwdl	Vial Number	: 15
Instrument	: GC1	Injection Number	: 1
Sample Name	: 601207-04	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 11:09 AM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 12:21 PM		



Data File Name	: C:\HPCHEM\1\DATA\01-25-16\016F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 16
Instrument	: GC1	Injection Number	: 1
Sample Name	: 601207-05	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 11:20 AM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 11:51 AM		



Data File Name	: C:\HPCHEM\1\DATA\01-25-16\006F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 6
Instrument	: GC1	Injection Number	: 1
Sample Name	: 06-145 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 09:33 AM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 11:51 AM		



Data File Name	: C:\HPCHEM\1\DATA\01-25-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 25 Jan 16 08:31 AM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 11:51 AM		

601207

SAMPLE CHART OF CUSTODY

ME01-19-16

Page # 1 of 1 VS3/A01

Send Report To John Funderburk, Chuck Cacek, cc: Jonathan Loeffler

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) <i>Jonathan Loeffler</i>	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS low level detection limit of 0.01 mg/kg for EDC.	GEMS Y / N

TURNAROUND TIME Standard (2 Weeks) RUSH Rush charges authorized by:
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED					Notes
								NWTPH-Dx	NWTPH-Gx	BTEX by 80218	CVOCs by 82608	HOLD	
USTO2-BTM01-12	USTO2-BTM01	12'	01A-E	1/19/16	1026	SOIL	3	X					X-24 h TAT
USTO2-WSW01-11	USTO2-WSW01	11'	02	I	1029	SOIL	5	X					per CC 1/29/16
USTO2-ESW01-11	USTO2-ESW01	11'	03		1030	SOIL	5	X					ms
USTO2-SSW01-11	USTO2-SSW01	11'	04		1033	SOIL	5	X					
USTO2-NSW01-11	USTO2-NSW01	11'	05		1035	SOIL	5	X					
<del><i>JL</i> 1/19/16</del>													

Samples received at 4 °C

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<i>Jonathan Loeffler</i>	JONATHAN LOEFFLER	SOUNDEARTH	1/19/16	1342
<i>M. Ryan</i>	M. Ryan	FE BT	1/19/16	1342

***Friedman & Bruya, Inc. #601264***



FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
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www.friedmanandbruya.com

January 26, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on January 21, 2016 from the SOU\_1002-003\_20160121, F&BI 601264 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0126R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 21, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160121, F&BI 601264 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
601264 -01	UST03-BTM01-15
601264 -02	UST03-BTM02-15
601264 -03	UST03-SSW01-14
601264 -04	UST03-NSW01-14
601264 -05	UST03-WSW01-14
601264 -06	UST03-ESW01-14

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/26/16  
Date Received: 01/21/16  
Project: SOU\_1002-003\_20160121, F&BI 601264  
Date Extracted: 01/25/16  
Date Analyzed: 01/25/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> (% Recovery) (Limit 56-165)
UST03-BTM01-15 601264-01	1,600	1,000	87
UST03-BTM02-15 601264-02	5,900	330	91
UST03-SSW01-14 601264-03	520	360	84
UST03-NSW01-14 601264-04	<50	<250	84
UST03-WSW01-14 601264-05	<50	<250	85
UST03-ESW01-14 601264-06	<50	<250	85
Method Blank 06-145 MB	<50	<250	96

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/26/16

Date Received: 01/21/16

Project: SOU\_1002-003\_20160121, F&BI 601264

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 601292-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	112	118	63-146	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	112	79-144

# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

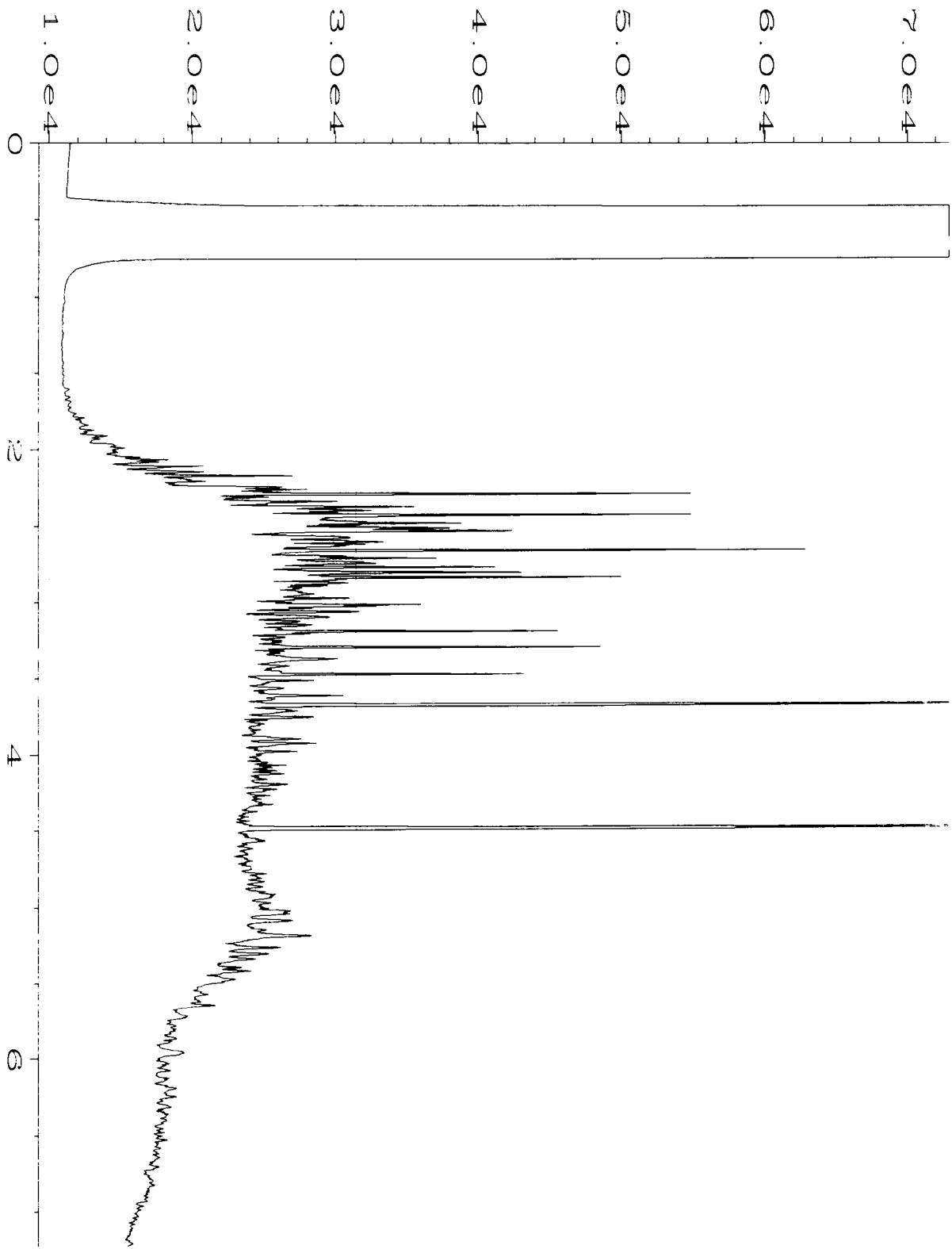
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

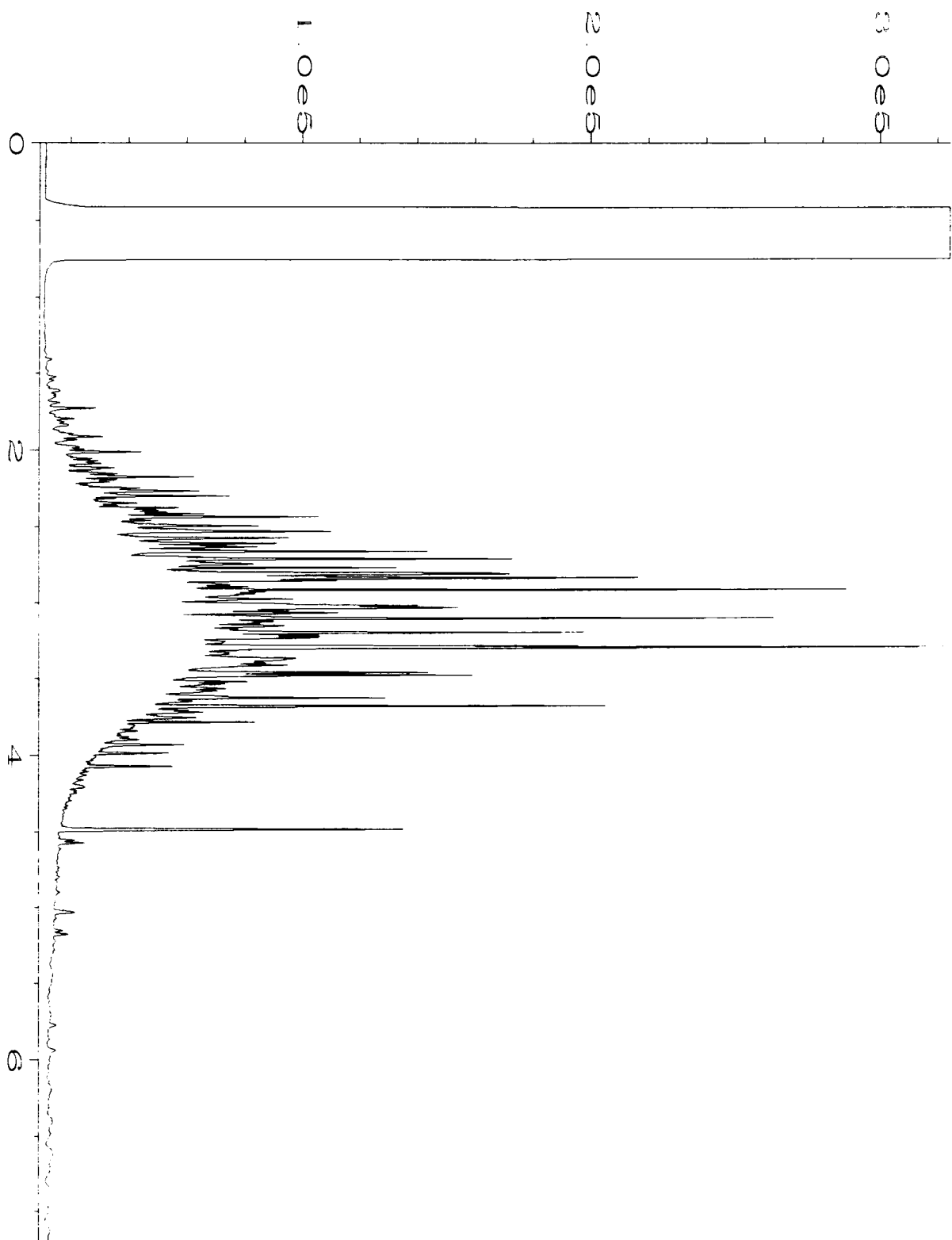
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

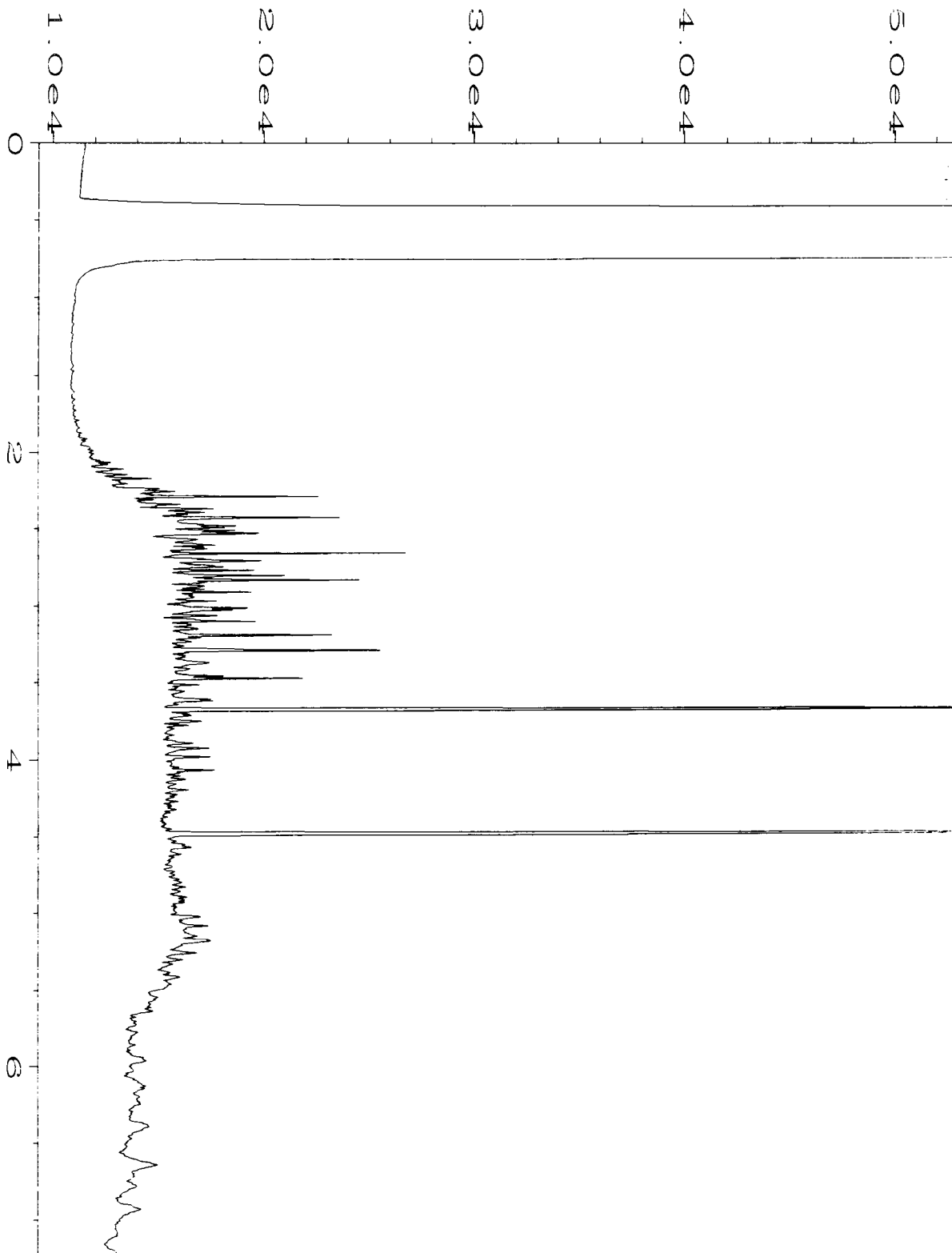
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Data File Name	: C:\HPCHEM\1\DATA\01-25-16\017F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 17
Instrument	: GC1	Injection Number	: 1
Sample Name	: 601264-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 11:31 AM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 11:52 AM		

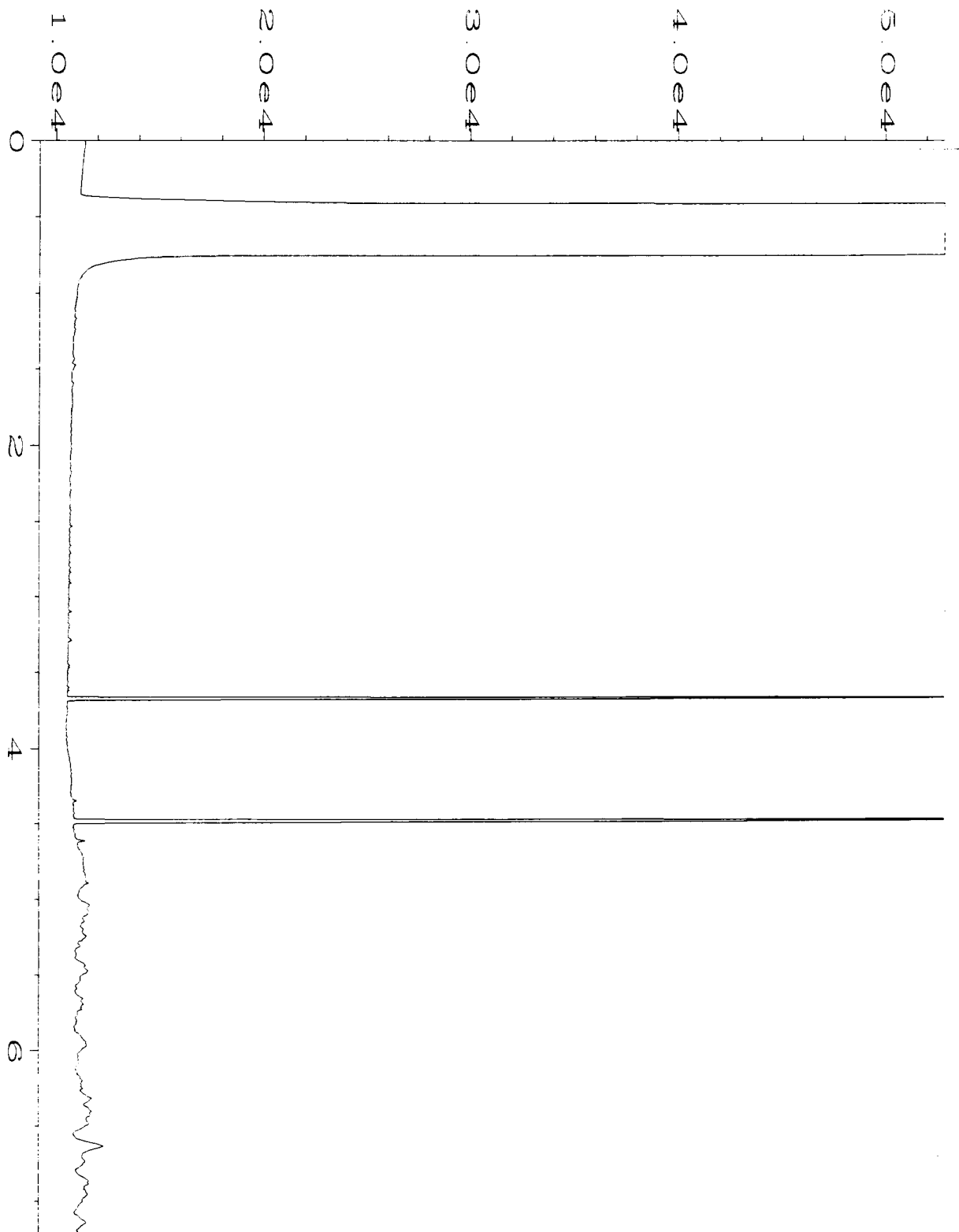


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Operator	: mwdl	Vial Number	: 18
Instrument	: GC1	Injection Number	: 1
Sample Name	: 601264-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 11:42 AM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 12:04 PM		

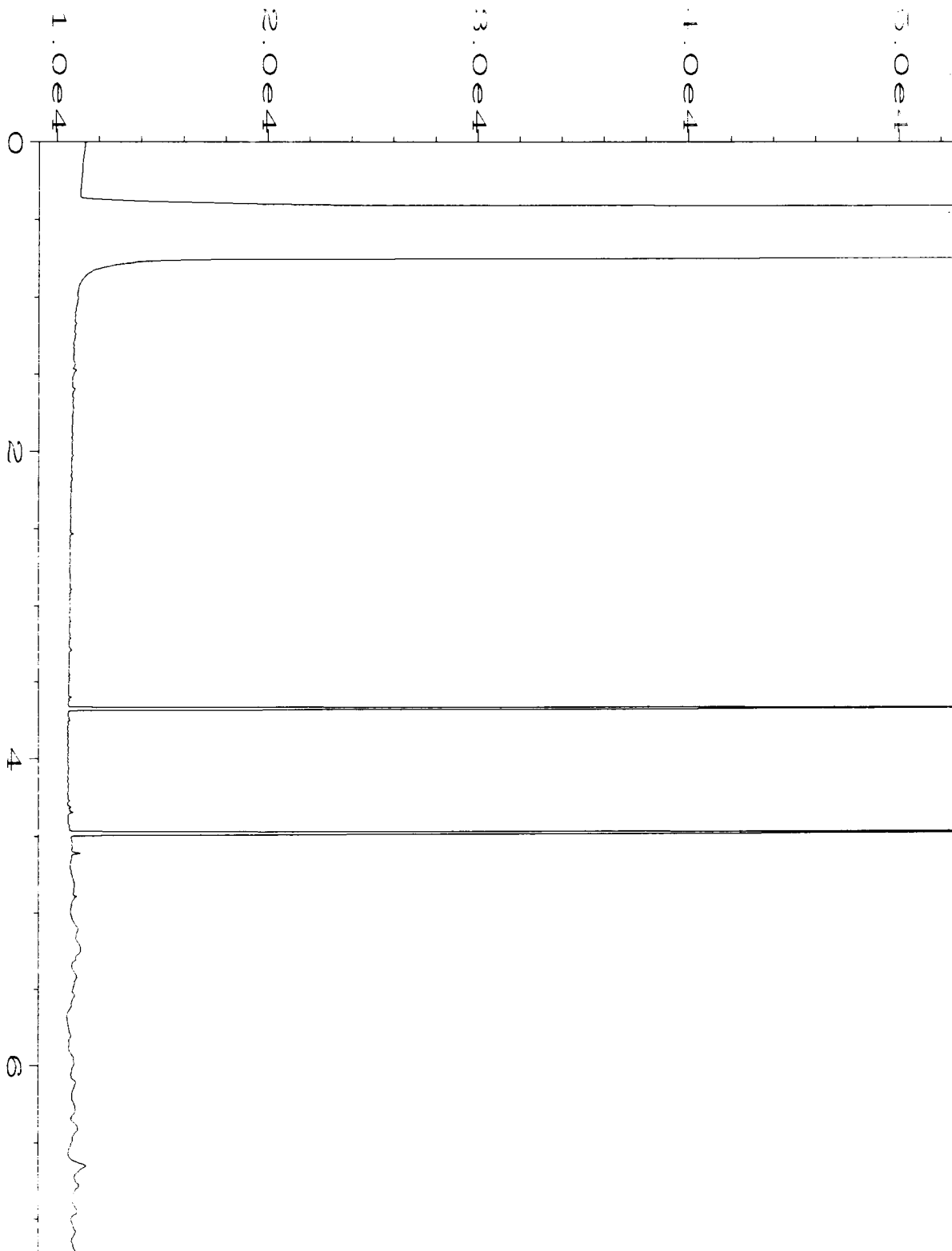


Data File Name	: C:\HPCHEM\1\DATA\01-25-16\019F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 19
Instrument	: GC1	Injection Number	: 1
Sample Name	: 601264-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 11:53 AM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 12:04 PM		

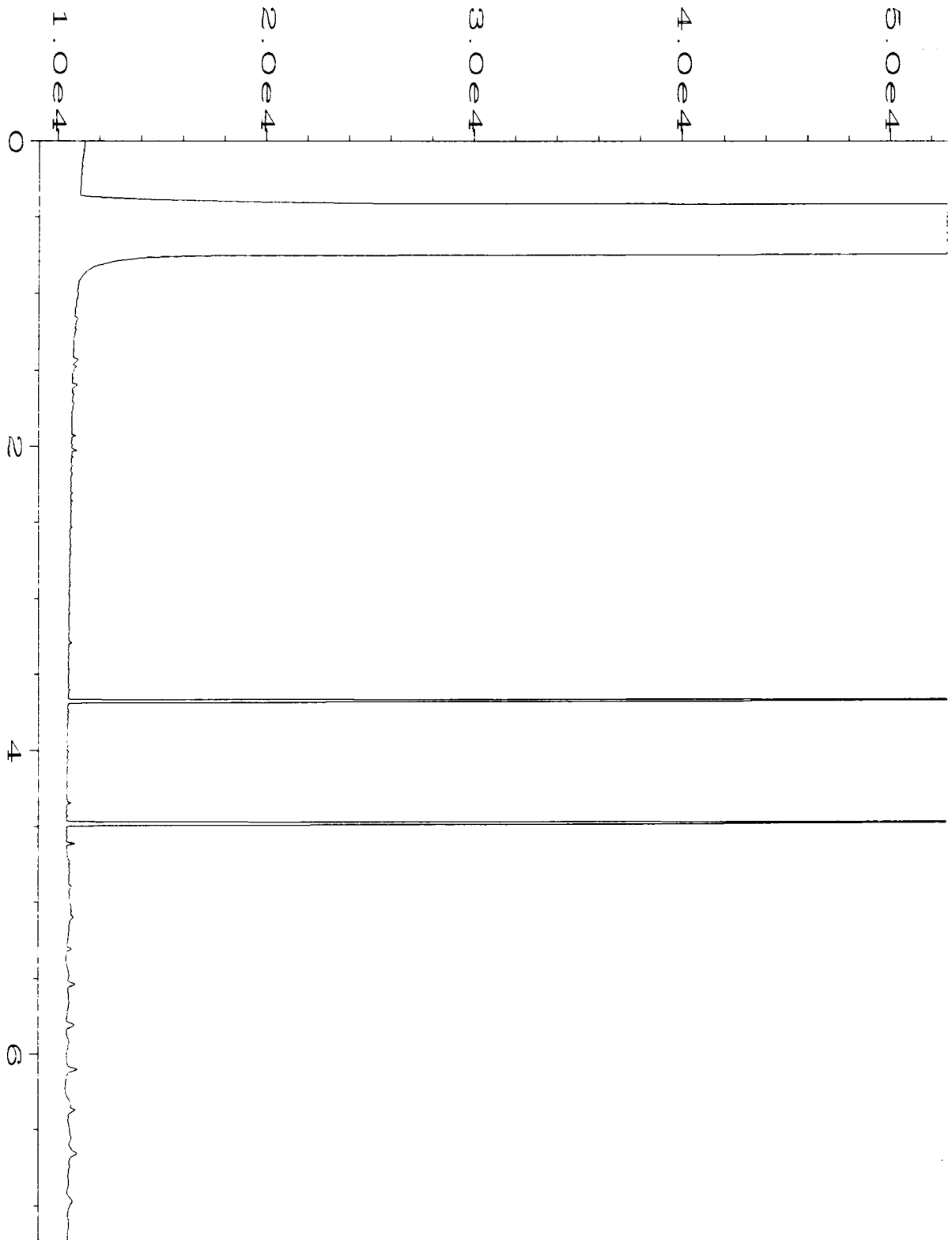




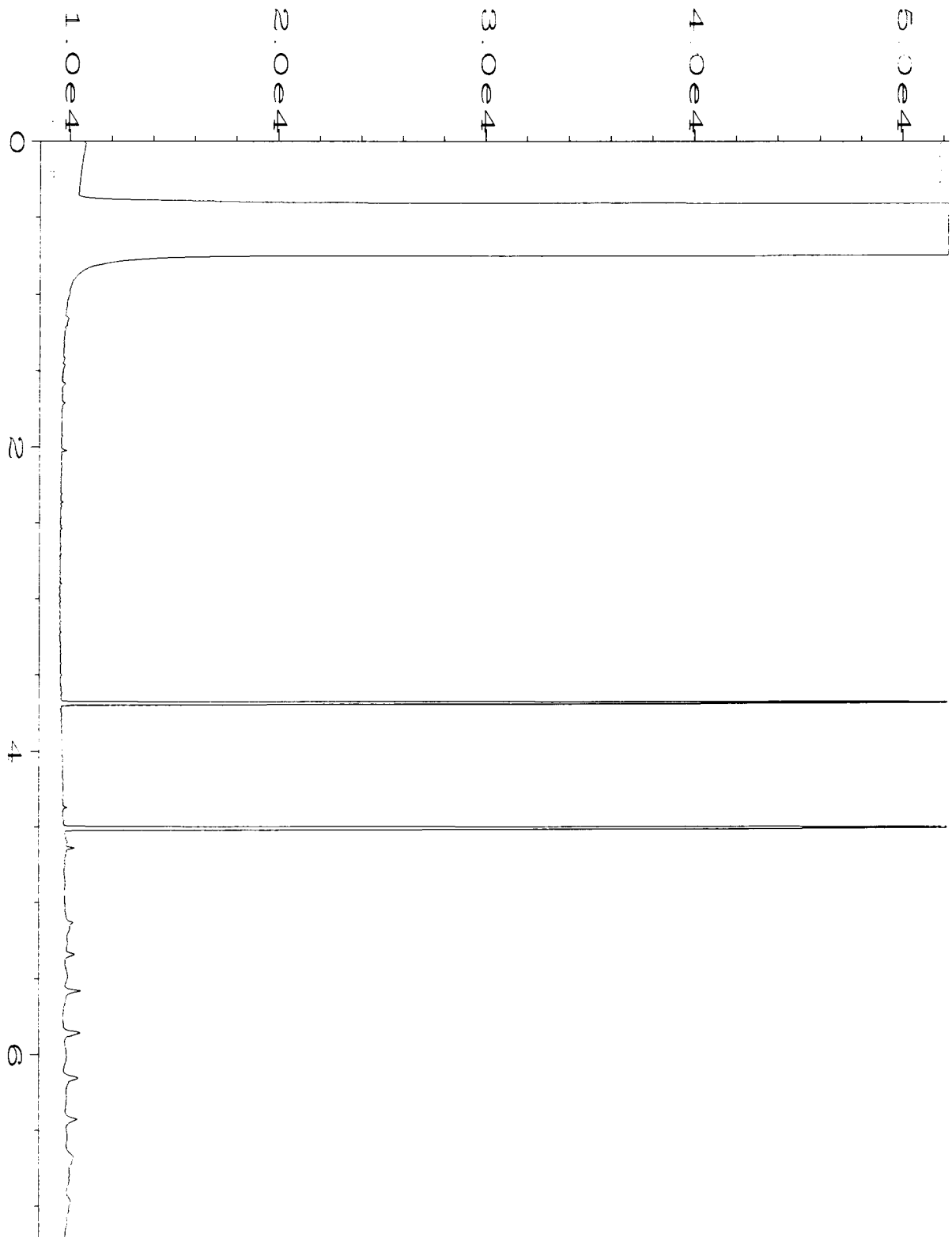
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Operator	: mwdl	Vial Number	: 20
Instrument	: GC1	Injection Number	: 1
Sample Name	: 601264-04	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 12:04 PM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 12:15 PM		



Data File Name	: C:\HPCHEM\1\DATA\01-25-16\021F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 21
Instrument	: GC1	Injection Number	: 1
Sample Name	: 601264-05	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 12:15 PM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 12:35 PM		

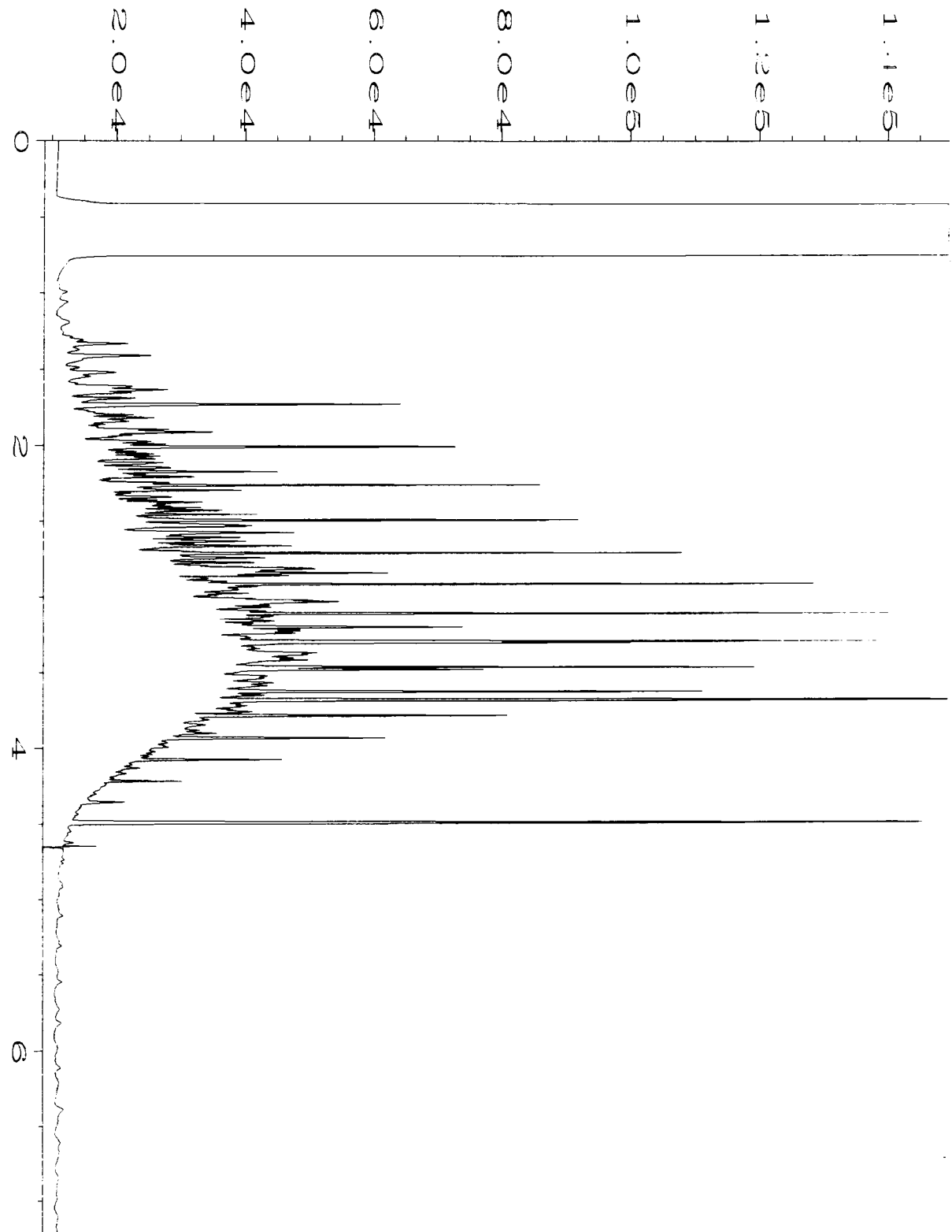


Data File Name	: C:\HPCHEM\1\DATA\01-25-16\022F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 22
Instrument	: GC1	Injection Number	: 1
Sample Name	: 601264-06	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 12:26 PM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 12:38 PM		



Data File Name	: C:\HPCHEM\1\DATA\01-25-16\006F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 6
Instrument	: GC1	Injection Number	: 1
Sample Name	: 06-145 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 09:33 AM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 11:51 AM		

01-25-16 08:31 AM  
GC1  
500 Dx 45-182D  
DX.MTH  
11:51 AM



Data File Name	: C:\HPCHEM\1\DATA\01-25-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 25 Jan 16 08:31 AM	Analysis Method	: DX.MTH
Report Created on:	25 Jan 16 11:51 AM		

601264

SAMPLE CHAIN OF CUSTODY ME 1/21/16

Send Report To John Funderburk, Chuck Cacek, cc: Jonathan Loeffler  
 Company SoundEarth Strategies, Inc.  
 Address 2811 Fairview Avenue East, Suite 2000  
 City, State, ZIP Seattle, Washington 98102  
 Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) <i>[Signature]</i>	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS low level detection limit of 0.01 mg/kg for EDC.	GEMS Y / N

Page # 1 of 1 AD2 VS2

TURNAROUND TIME  
Standard (2 Weeks)  
RUSH \_\_\_\_\_  
Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL  
Dispose after 30 days  
Return samples  
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED					Notes
								NWTH-Dx	NWTH-Gx	BTEX by 80218	CVOCs by 82608'	HOLD	
UST03-BTM01-15	UST03-BTm01	15'	01A-E	1/20/16	1219	BOIL	5	X	X	X	X	X	
UST03-BTM02-15	UST03-BTm02	15'	02A-E		1221			X	X	X	X	X	X - 24h
UST03-ESW01-14	UST03-ESW01	14'	01A-E		1224			X	X	X	X	X	TAT prcc 1/24/16 mg
UST03-NSW01-14	UST03-NSW01	14'	01A-E		1226			X	X	X	X	X	
UST03-WSW01-14	UST03-WSW01	14'	05A-E		1229			X	X	X	X	X	
UST03-ESW01-14	UST03-ESW01	14'	06A-E		1271 1/21/16			X	X	X	X	X	

Samples received at 5 °C

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>[Signature]</i>	JONATHAN LOEFFLER	SANDEARTH	1/21/16	1550
Received by: <i>[Signature]</i>	Jan Shikama	EBI	1/21/16	
Relinquished by:				
Received by:				

***Friedman & Bruya, Inc. #602114***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

February 22, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on February 8, 2016 from the SOU\_1002-003\_ 20160208, F&BI 602114 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0222R.DOC



FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 8, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160208, F&BI 602114 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
602114 -01	DW04-15
602114 -02	DW04-25
602114 -03	DW04-35

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/22/16  
Date Received: 02/08/16  
Project: SOU\_1002-003\_20160208, F&BI 602114  
Date Extracted: 02/18/16  
Date Analyzed: 02/18/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
DW04-15 602114-01	<50	<250	94
DW04-25 602114-02	<50	<250	96
DW04-35 602114-03	<50	<250	85
Method Blank 06-319 MB	<50	<250	82

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/22/16

Date Received: 02/08/16

Project: SOU\_1002-003\_20160208, F&BI 602114

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 602291-07 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	92	99	64-133	7

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	102	58-147

# FRIEDMAN & BRUYA, INC.

---

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

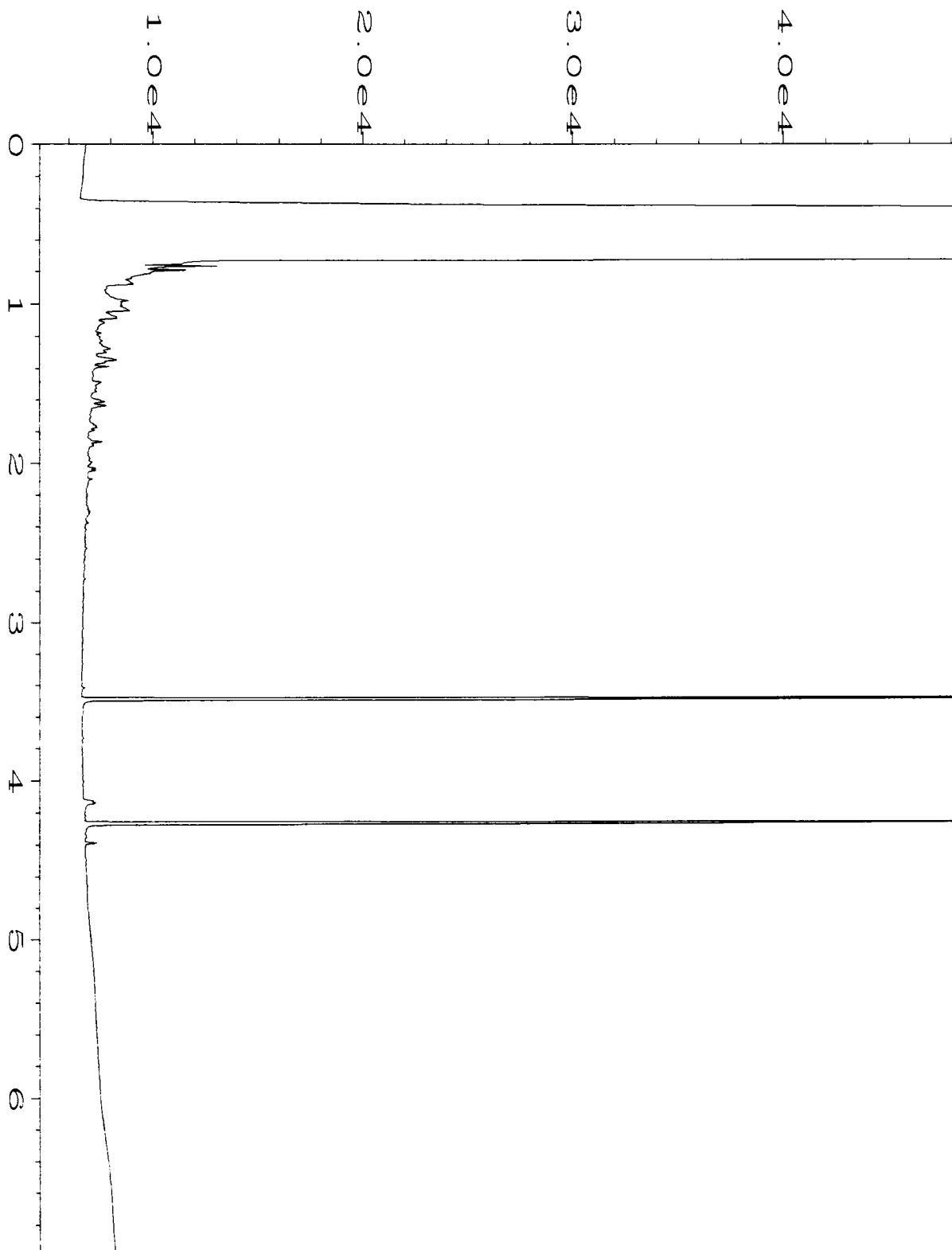
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

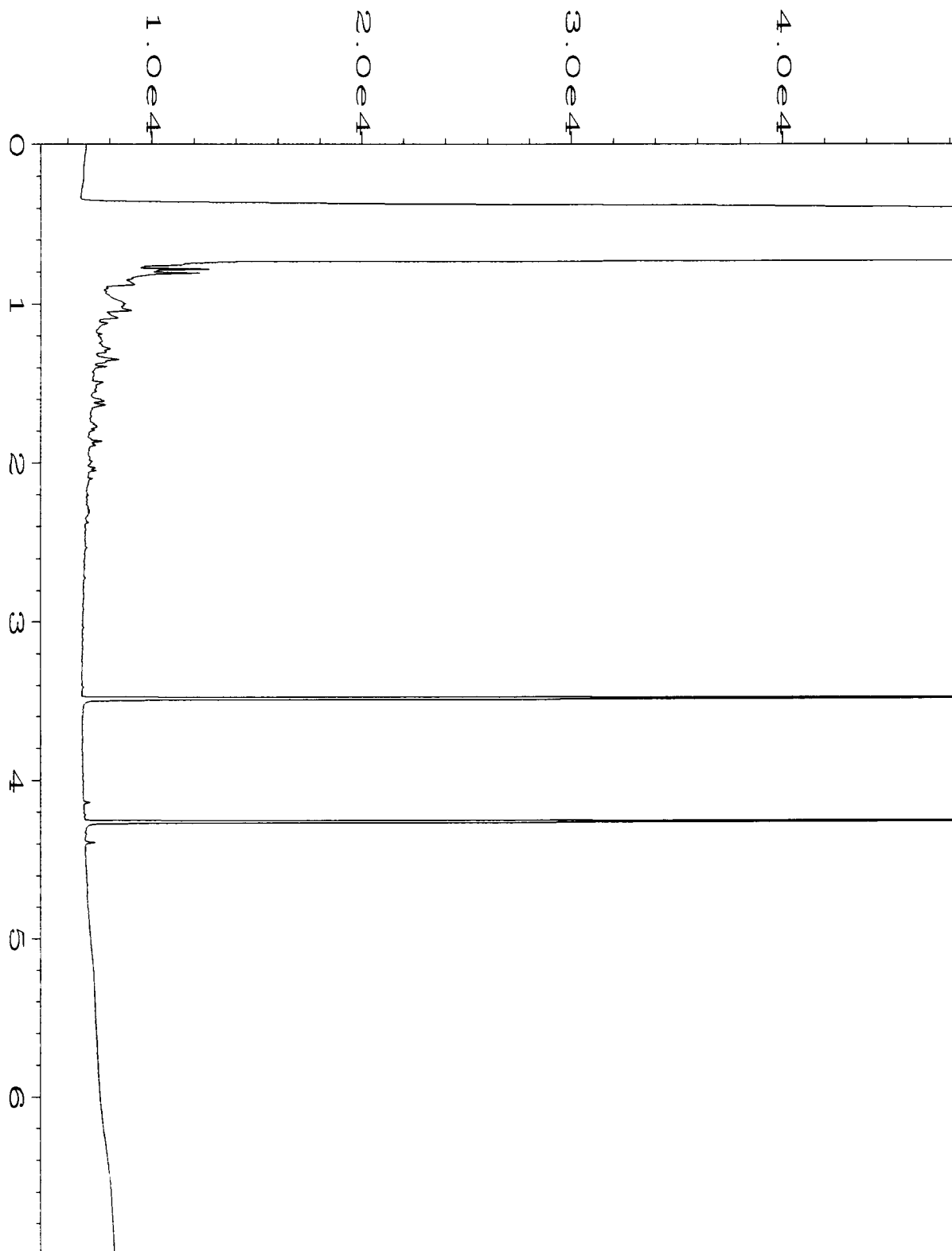
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

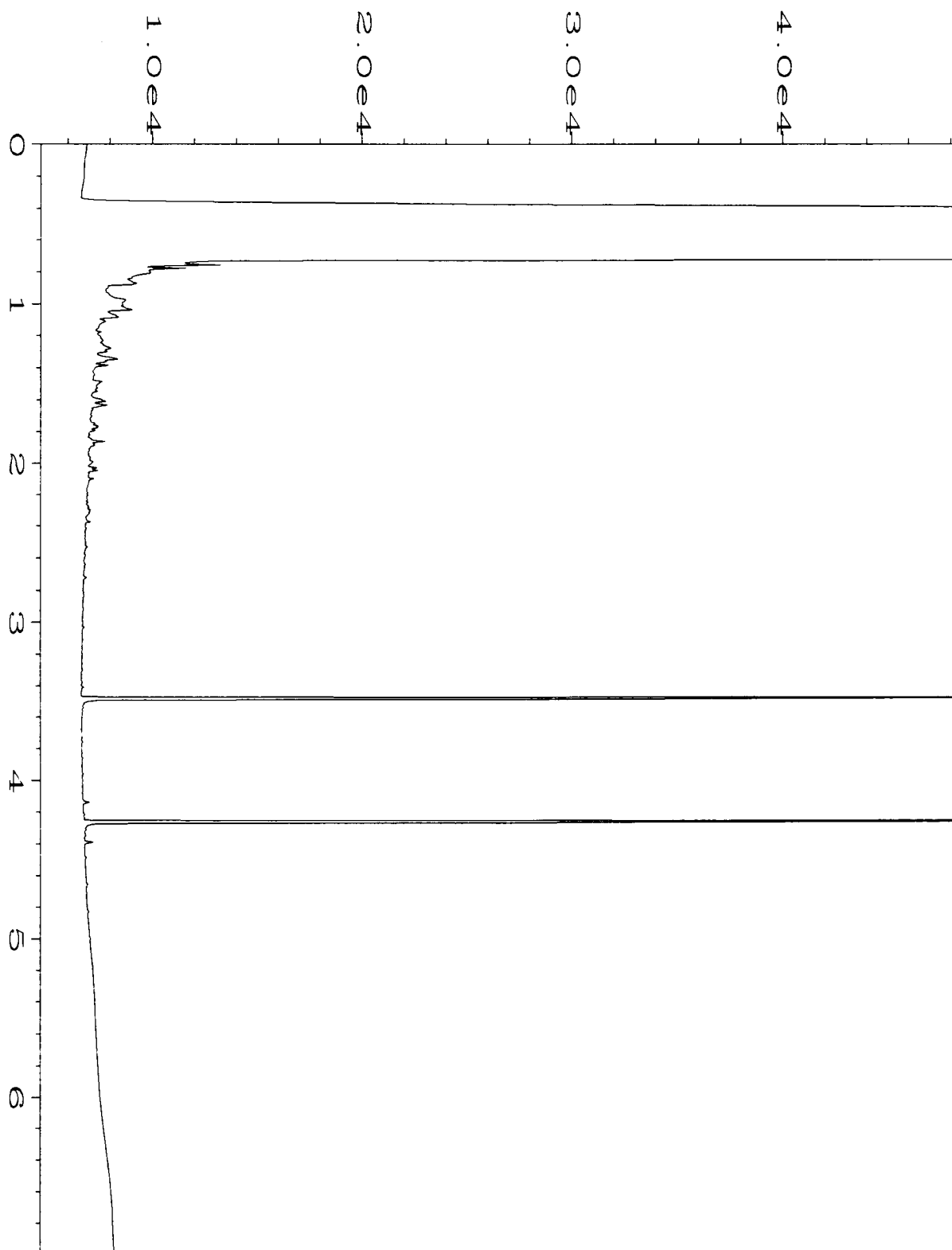
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



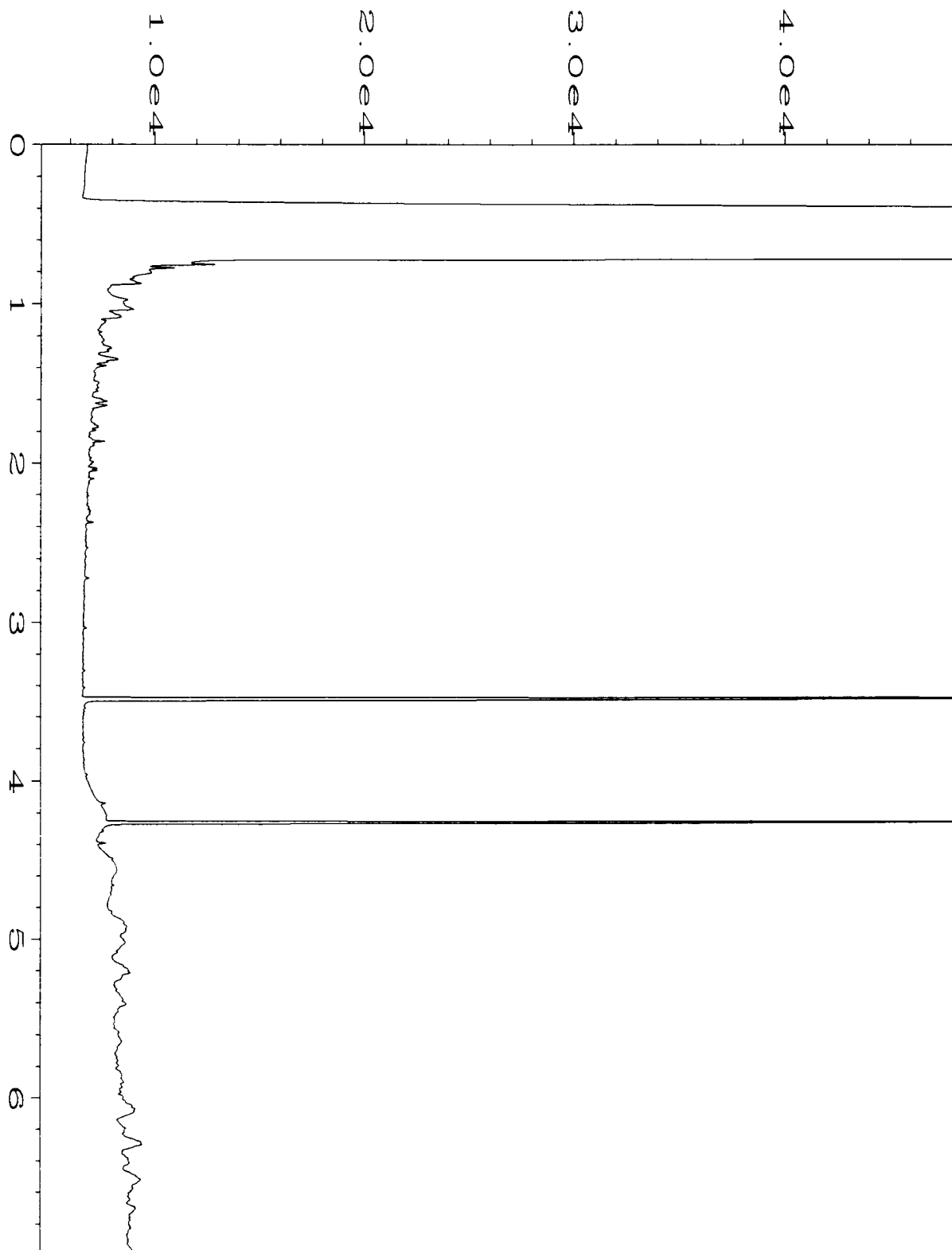
Data File Name	: C:\HPCHEM\6\DATA\02-18-16\026F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 26
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602114-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Feb 16 01:04 PM	Analysis Method	: DX.MTH
Report Created on:	19 Feb 16 09:33 AM		



Data File Name	: C:\HPCHEM\6\DATA\02-18-16\027F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 27
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602114-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 18 Feb 16 01:15 PM	Analysis Method	: DX.MTH
Report Created on:	19 Feb 16 09:33 AM		

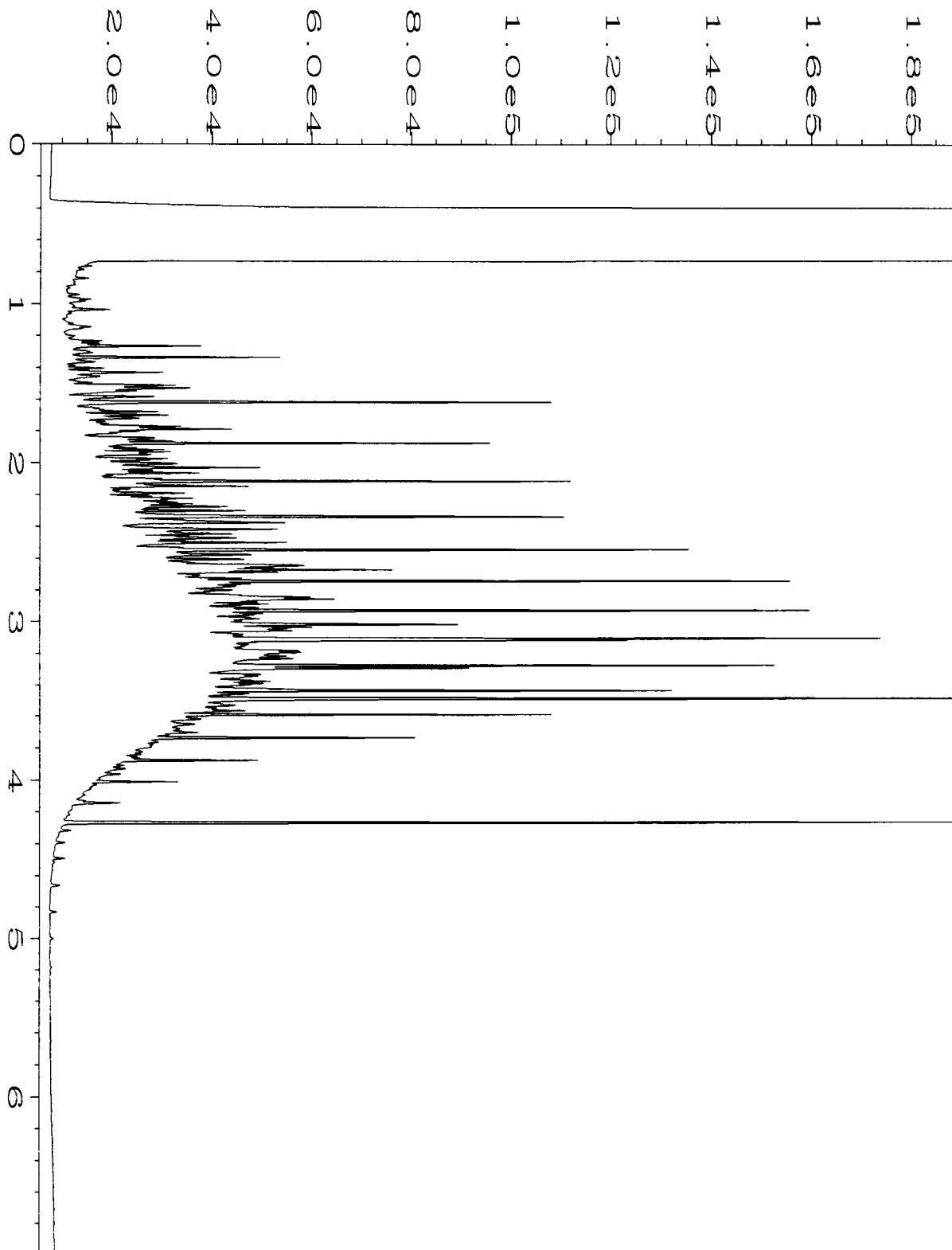


Data File Name	: C:\HPCHEM\6\DATA\02-18-16\028F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 28
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602114-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Feb 16 01:26 PM	Analysis Method	: DX.MTH
Report Created on:	19 Feb 16 09:33 AM		



Data File Name	: C:\HPCHEM\6\DATA\02-18-16\022F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 22
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 06-319 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 18 Feb 16 12:21 PM	Analysis Method	: DX.MTH
Report Created on:	19 Feb 16 09:33 AM		





Data File Name	: C:\HPCHEM\6\DATA\02-18-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Feb 16 07:25 AM	Analysis Method	: DX.MTH
Report Created on:	19 Feb 16 09:34 AM		

602114

SAMPLE CHAIN OF CUSTODY

ME 02/08/16

CT

Send Report To John Funderburk, Chuck Cacok; cc: Jonathan Loeffler

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) <i>Ad Han</i>	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS 1 low level detection limit of 0.01 mg/kg for EDC. Direct Spurge Method	GEMS Y / N

Page # <u>1</u> or <u>1</u>
TURNAROUND TIME Standard (2 Weeks) RUSH _____ Rush charges authorized by:
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED					Notes
								NWTH-Dx	NWTH-Gx	STEX by 8021B	CVOCs by 8260B		
DW04-15	DW04	15	01	02-08-16	0830	Soil	1	X					X per CC 2/18/16 me.
DW04-25	DW04	25	02	↓	0850	↓	↓	X					HOLD
DW04-35	DW04	35	03	↓	1000	↓	↓	X					↓
<del>ARM 02-08-16</del>													
Samples received at <u>4</u> °C													

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>Ad Han</i>	Ad Han	Sound Earth	02-08-16	17:12
Received by: <i>Jon Shimazu</i>	Jon Shimazu	FB & T	↓	?
Relinquished by:				
Received by:				

***Friedman & Bruya, Inc. #602204***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

February 16, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on February 12, 2016 from the SOU\_1002-003\_20160212, F&BI 602204 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Chuck Cacek, Jonathan Loeffler  
SOU0216R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 12, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160212, F&BI 602204 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID  
602204 -01

SoundEarth Strategies  
VE48-WSW01-11

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/16

Date Received: 02/12/16

Project: SOU\_1002-003\_20160212, F&BI 602204

Date Extracted: 02/12/16

Date Analyzed: 02/12/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 56-165)
VE48-WSW01-11 602204-01	<50	<250	88
Method Blank 06-273 MB	<50	<250	84

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/16/16

Date Received: 02/12/16

Project: SOU\_1002-003\_20160212, F&BI 602204

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 602198-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	420	88	85	63-146	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	90	79-144

# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

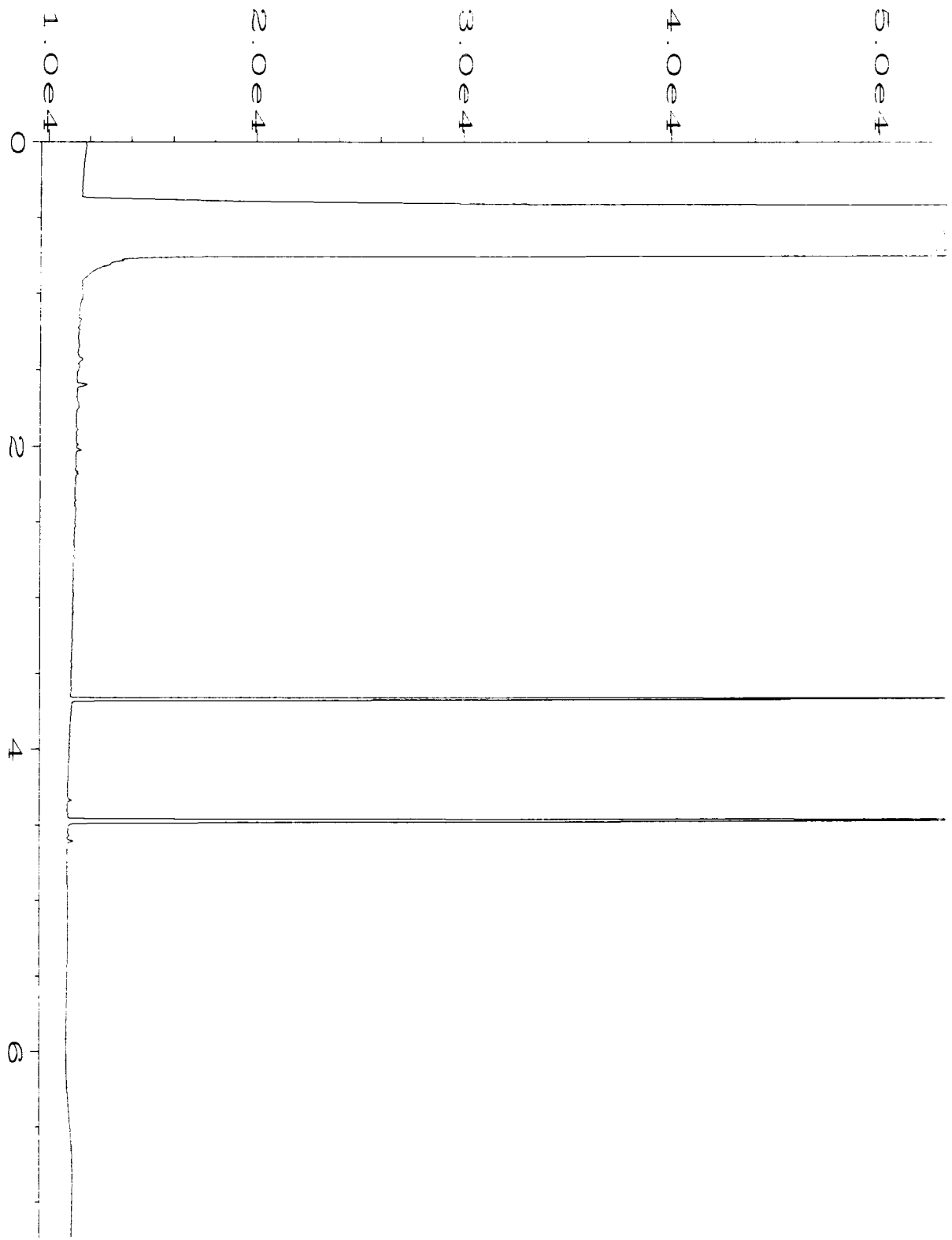
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

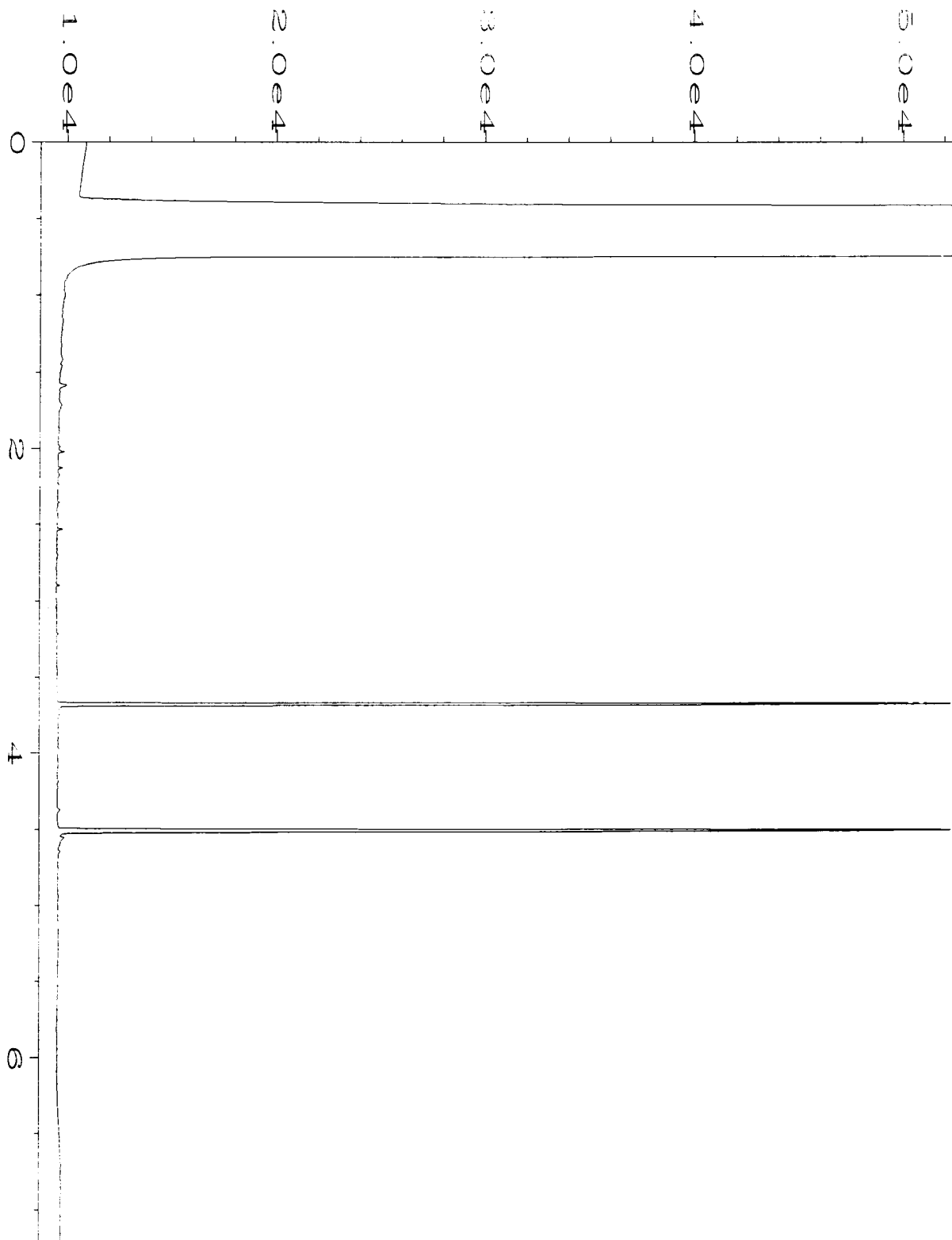
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



1000000  
500000  
0  
-500000  
-1000000

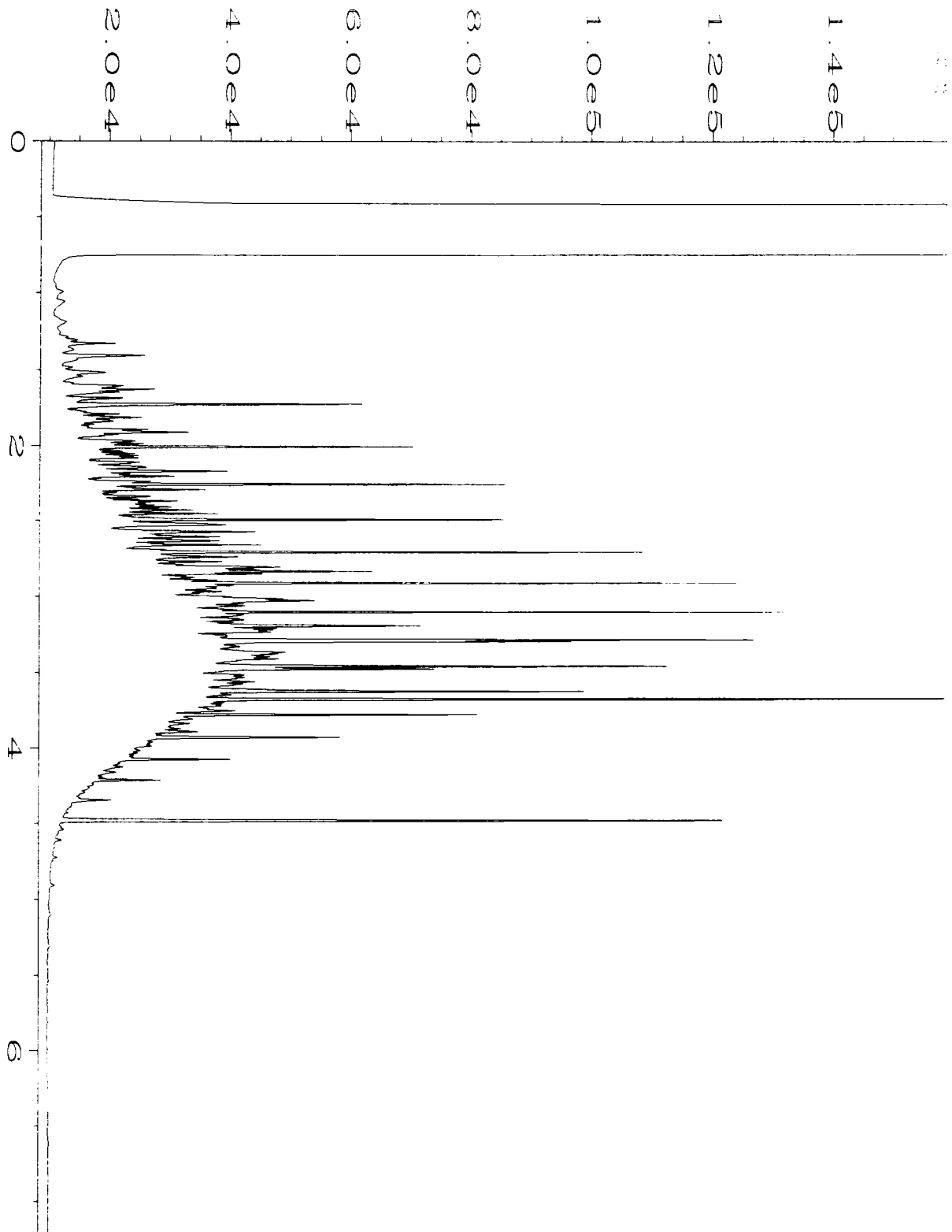


Data File Name : C:\HPCHEM\1\DATA\02-12-16\039F0301.D  
Operator : mwdl Page Number : 1  
Instrument : GC1 Vial Number : 39  
Sample Name : 602204-01 Injection Number : 1  
Run Time Bar Code: Sequence Line : 3  
Acquired on : 12 Feb 16 03:33 PM Instrument Method: DX.MTH  
Report Created on: 15 Feb 16 10:20 AM Analysis Method : DX.MTH



Data File Name : C:\HPCHEM\1\DATA\02-12-16\006F0301.D  
 Operator : mwdl  
 Instrument : GC1  
 Sample Name : 06-273 mb  
 Run Time Bar Code:  
 Acquired on : 12 Feb 16 09:31 AM  
 Report Created on: 15 Feb 16 10:20 AM  
 Page Number : 1  
 Vial Number : 6  
 Injection Number : 1  
 Sequence Line : 3  
 Instrument Method: DX.MTH  
 Analysis Method : DX.MTH

Operator  
Date  
Instrument  
Sample Name  
Run Time  
Acquired on  
Report Created



Data File Name : C:\HPCHEM\1\DATA\02-12-16\003F0201.D  
Operator : mwdl  
Instrument : GC1  
Sample Name : 500 Dx 45-182D  
Run Time Bar Code:  
Acquired on : 12 Feb 16 07:08 AM  
Report Created on: 15 Feb 16 10:20 AM  
Page Number : 1  
Vial Number : 3  
Injection Number : 1  
Sequence Line : 2  
Instrument Method: DX.MTH  
Analysis Method : DX.MTH

602204

SAMPLE CHAIN OF CUSTODY

ME02-12-16

1 VS/BG

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) 	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS 1 low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method	GEMS Y / N

Page # 1 OF 1

TURNAROUND TIME  
Standard (2 Weeks)  
X RUSH 24 hr TAT  
Rush charges authorized by:  
Chuck Cacek

SAMPLE DISPOSAL  
Dispose after 30 days  
Return samples  
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED					Notes
								NWTPH-DX	NWTPH-GX	BTEX by 8021B	CVOCs by 8240B <sup>1</sup>		
VE48-WSW01-11	<sup>FERRAC</sup> USTO2 tank cavity	11'	01A-E	2/11/16	1000	SOIL	5	X					

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

Samples received at 2 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JONATHAN LOEFFLER	SOUNDEARTH	2/12/16	1010
Received by:	Elizabeth Radford	F & B	2/12/16	1010
Relinquished by:				
Received by:				

***Friedman & Bruya, Inc. #602286***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

February 22, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on February 17, 2016 from the SOU\_1002-003\_ 20160217, F&BI 602286 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0222R.DOC

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 17, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160217, F&BI 602286 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
602286 -01	VE7-N7-19
602286 -02	FD01-20160216

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/22/16

Date Received: 02/17/16

Project: SOU\_1002-003\_20160217, F&BI 602286

Date Extracted: 02/18/16

Date Analyzed: 02/18/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
VE7-N7-19 602286-01	4,100	<250	86
FD01-20160216 602286-02	6,400	<250	92
Method Blank 06-319 MB	<50	<250	92



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/22/16

Date Received: 02/17/16

Project: SOU\_1002-003\_20160217, F&BI 602286

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 602291-07 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	92	99	64-133	7

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	102	58-147

# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

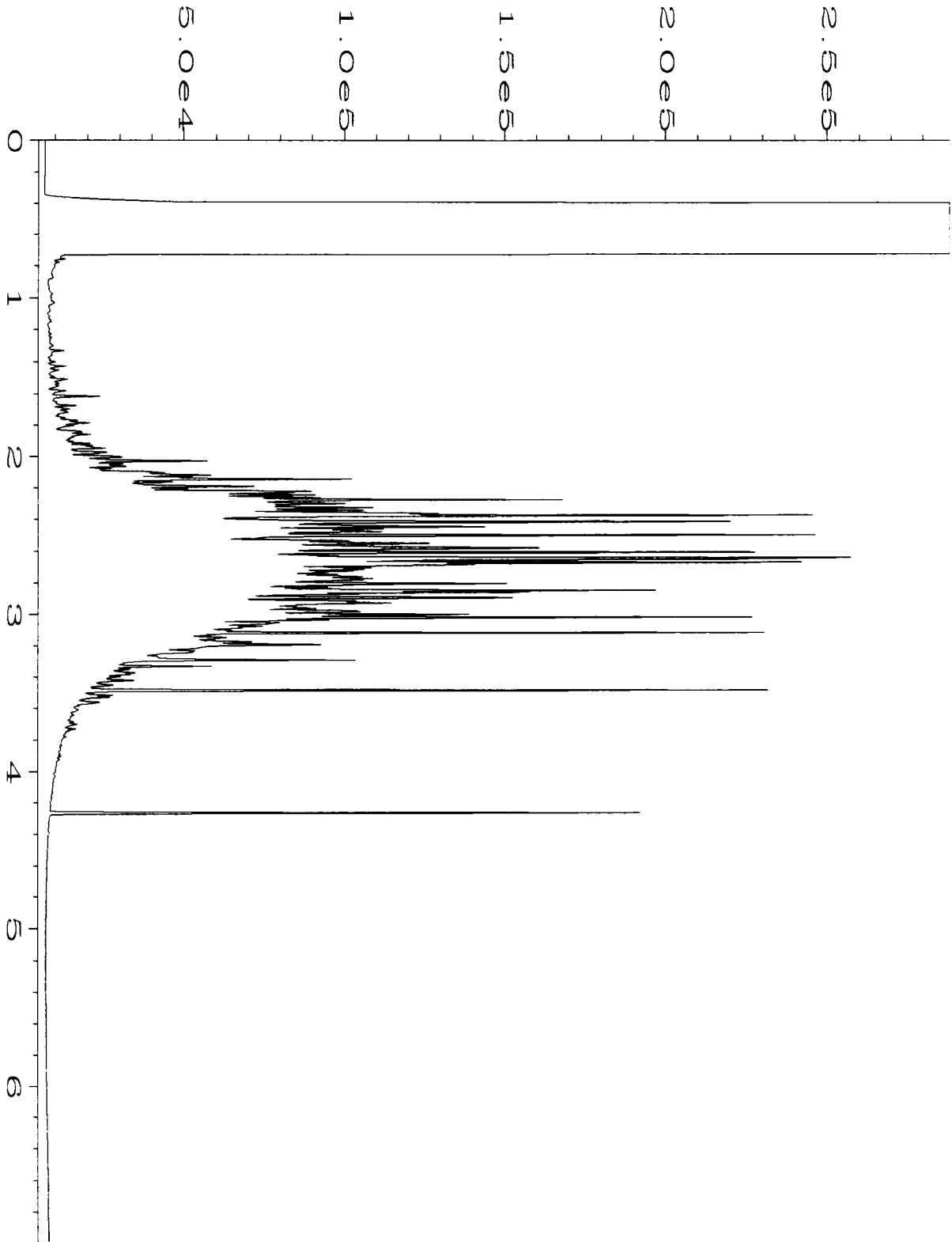
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

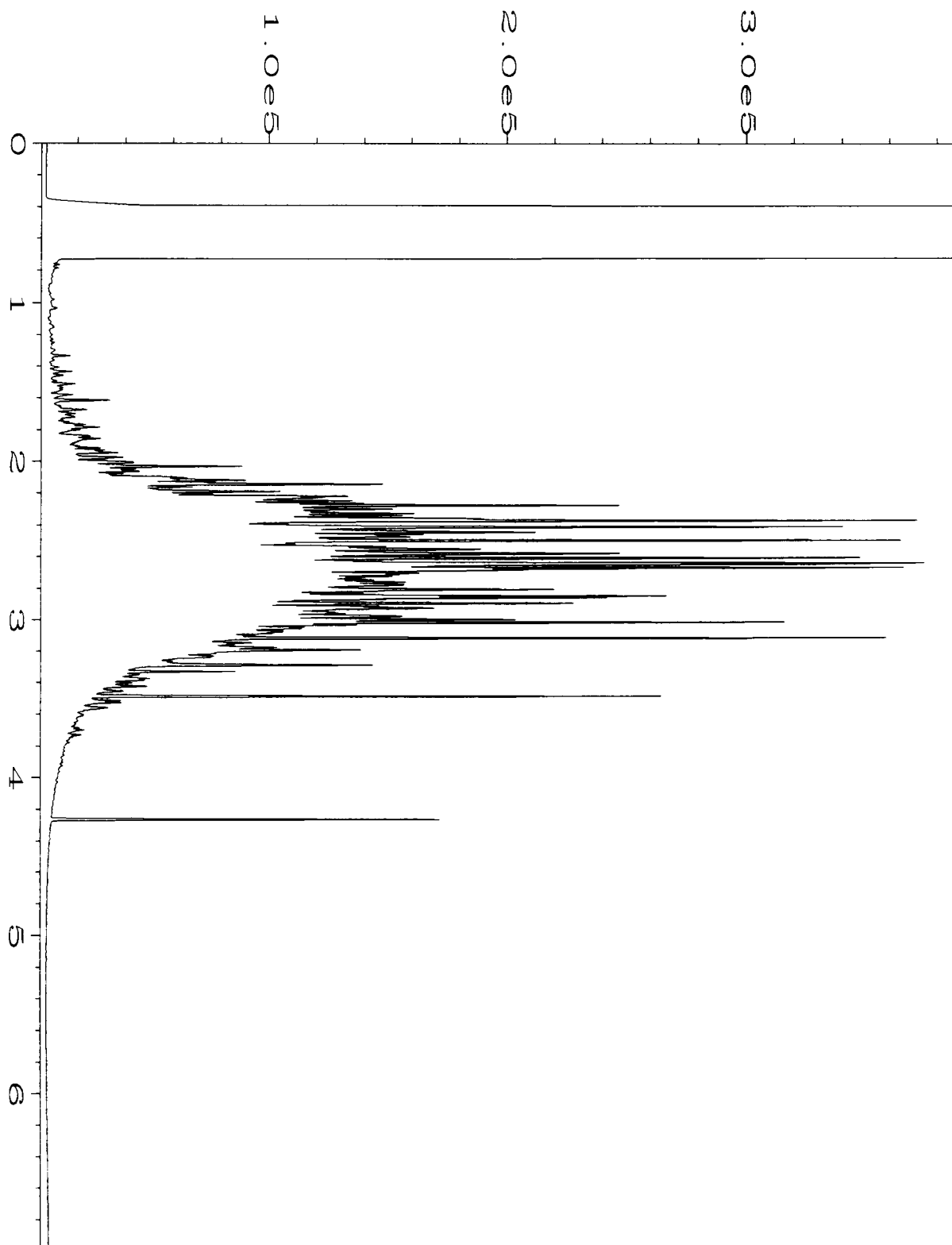
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

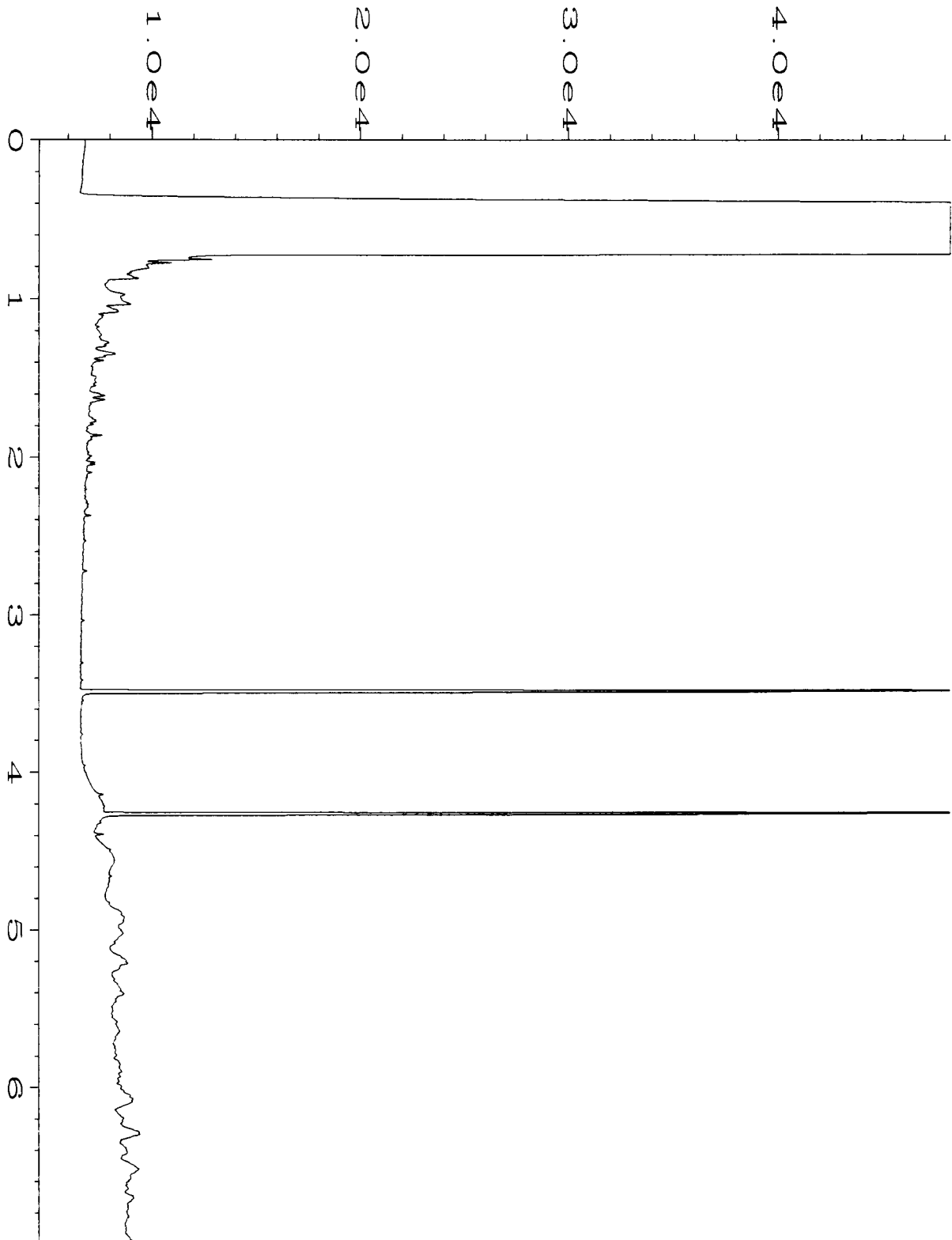
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



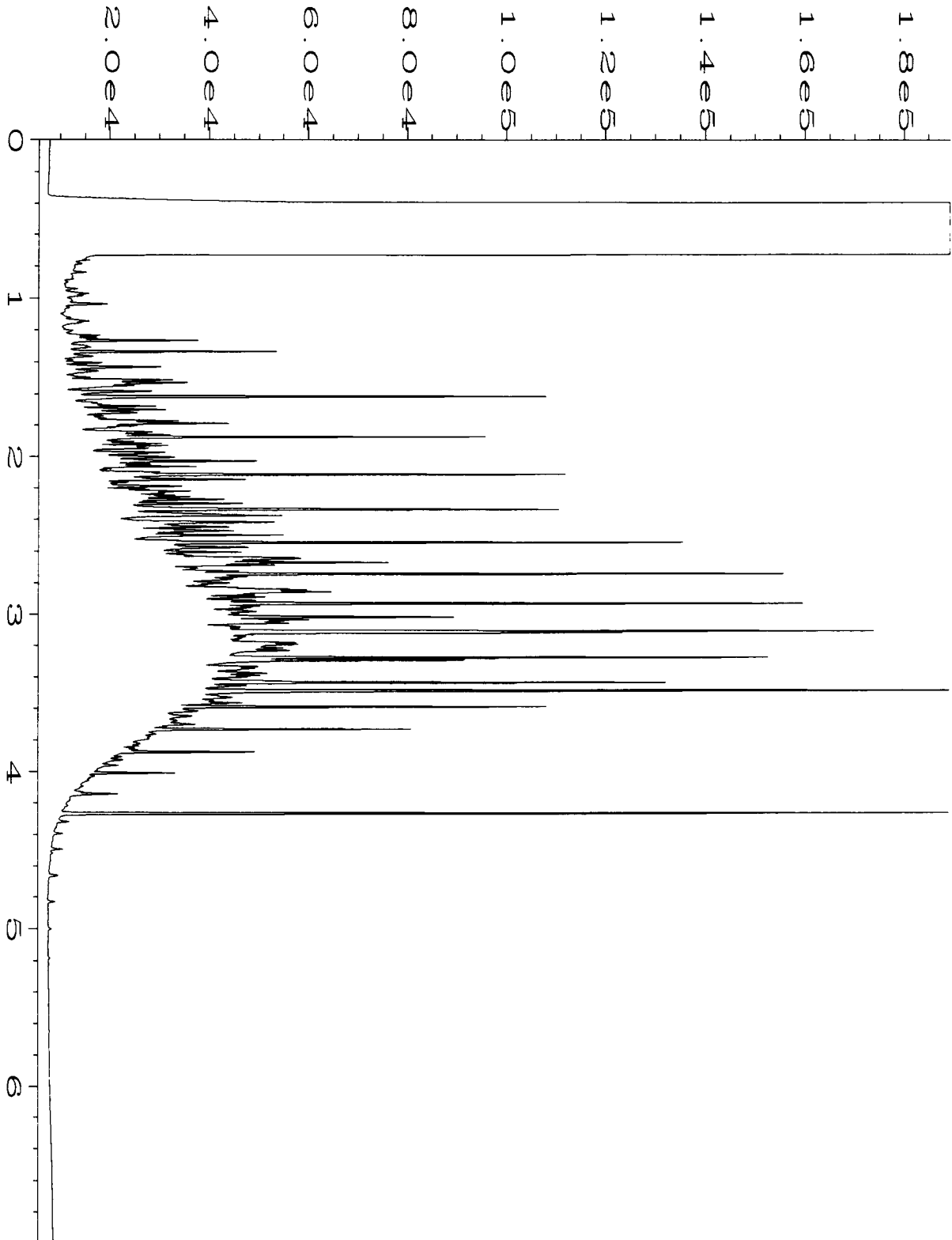
Data File Name	: C:\HPCHEM\6\DATA\02-18-16\029F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 29
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602286-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Feb 16 01:37 PM	Analysis Method	: DX.MTH
Report Created on:	19 Feb 16 09:35 AM		



Data File Name	: C:\HPCHEM\6\DATA\02-18-16\030F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 30
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602286-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Feb 16 01:48 PM	Analysis Method	: DX.MTH
Report Created on:	19 Feb 16 09:35 AM		



Data File Name	: C:\HPCHEM\6\DATA\02-18-16\022F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 22
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 06-319 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Feb 16 12:21 PM	Analysis Method	: DX.MTH
Report Created on:	19 Feb 16 09:35 AM		



Data File Name	: C:\HPCHEM\6\DATA\02-18-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Feb 16 07:25 AM	Analysis Method	: DX.MTH
Report Created on:	19 Feb 16 09:35 AM		

602286

**SAMPLE CHAIN OF CUSTODY**

ME 02-17-16

col

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler  
 Company SoundEarth Strategies, Inc.  
 Address 2811 Fairview Avenue East, Suite 2000  
 City, State, ZIP Seattle, Washington 98102  
 Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) 	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS 1 low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method	GEMS Y / N

Page # 1 or 1

**TURNAROUND TIME**  
 Standard (2 Weeks)  
 RUSH  
 Rush charges authorized by: \_\_\_\_\_

**SAMPLE DISPOSAL**  
 Dispose after 30 days  
 Return samples  
 Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	NWTPH-DX	NWTPH-GX	ANALYSES REQUESTED		Notes
										BTEX by 8021B	CVOCs by 8260B	
VE7-N7-19	VE7-N7	19'	01	2/16/16	1100	SOIL	1	X				
FD01-20160216			02	2/16/16	1130	SOIL	1	X				
<del>_____</del>												

2/16/16

Samples received at 4 °C

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JONATHAN LOEFFLER	SOUNDEARTH	2/17/16	1205
Received by:	Matt Langston	FB Inc	2/17/16	1205
Relinquished by:				
Received by:				

***Friedman & Bruya, Inc. #602327***



FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

February 23, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on February 19, 2016 from the SOU\_1002-03\_ 20160219, F&BI 602327 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0223R.DOC

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 19, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-03\_ 20160219, F&BI 602327 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
602327 -01	VE3-N6-18
602327 -02	VE3-N12-19
602327 -03	VE7-N13-19
602327 -04	VE9-N12-19
602327 -05	VE44-N10-18
602327 -06	VE5-N7-18

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/16  
Date Received: 02/19/16  
Project: SOU\_1002-03\_20160219, F&BI 602327  
Date Extracted: 02/19/16  
Date Analyzed: 02/19/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> (% Recovery) (Limit 53-144)
VE3-N6-18 602327-01	<50	<250	86
VE3-N12-19 602327-02	<50	<250	96
VE7-N13-19 602327-03	<50	<250	94
VE9-N12-19 602327-04	<50	<250	98
VE44-N10-18 602327-05	<50	<250	96
VE5-N7-18 602327-06	<50	<250	85
Method Blank 06-326 MB	<50	<250	87

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/16

Date Received: 02/19/16

Project: SOU\_ 1002-03\_ 20160219, F&BI 602327

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 602327-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	100	95	64-133	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	93	58-147

# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

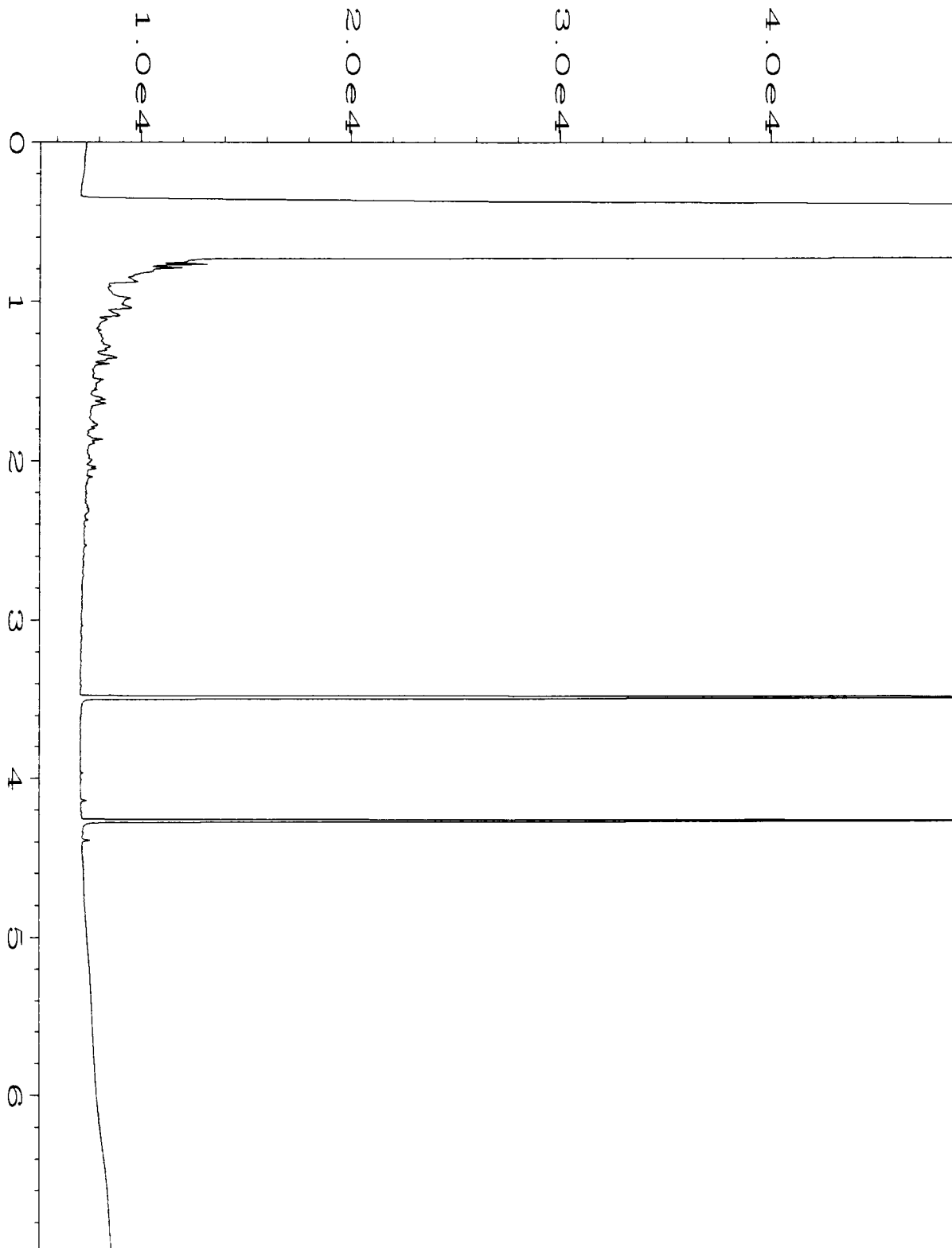
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

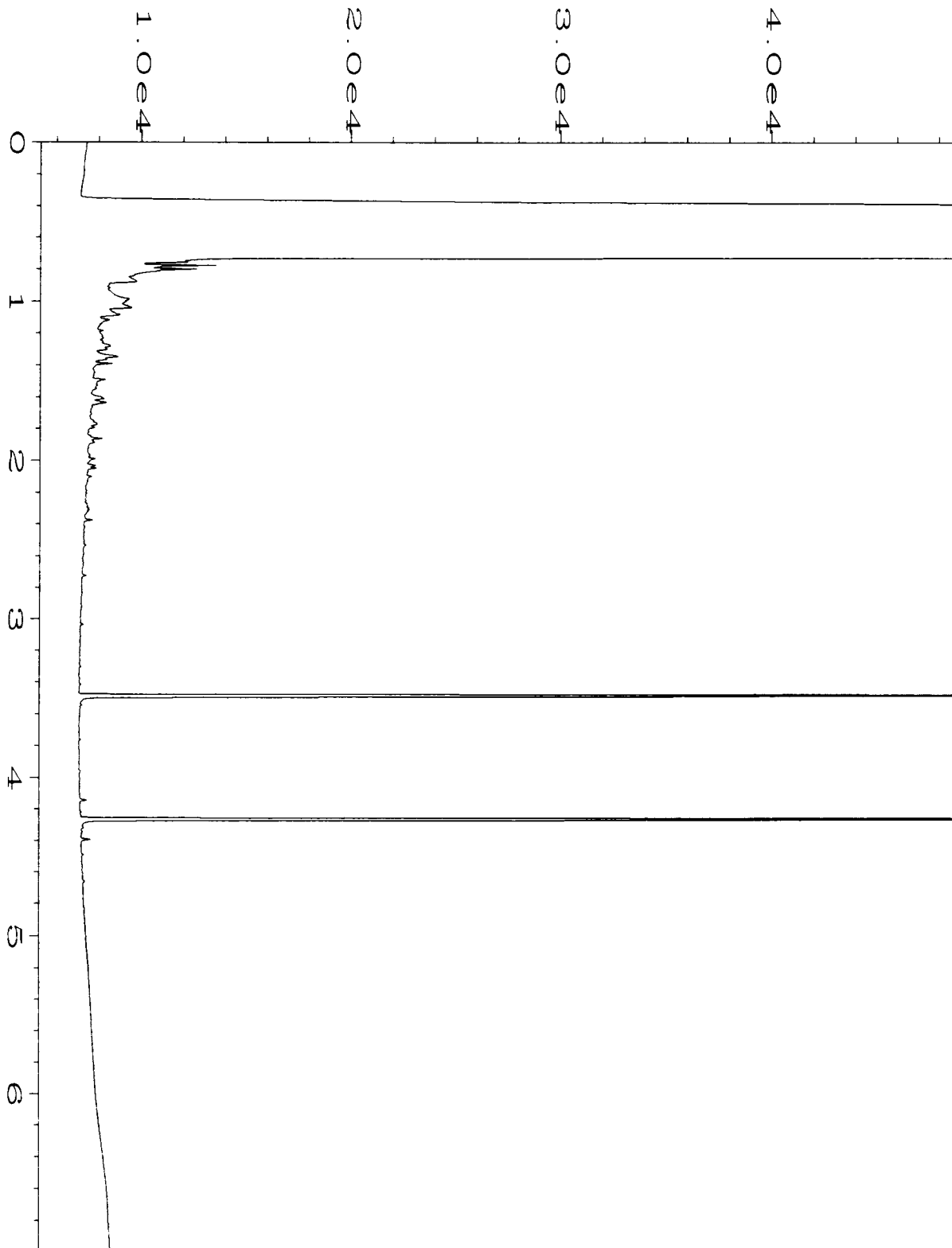
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

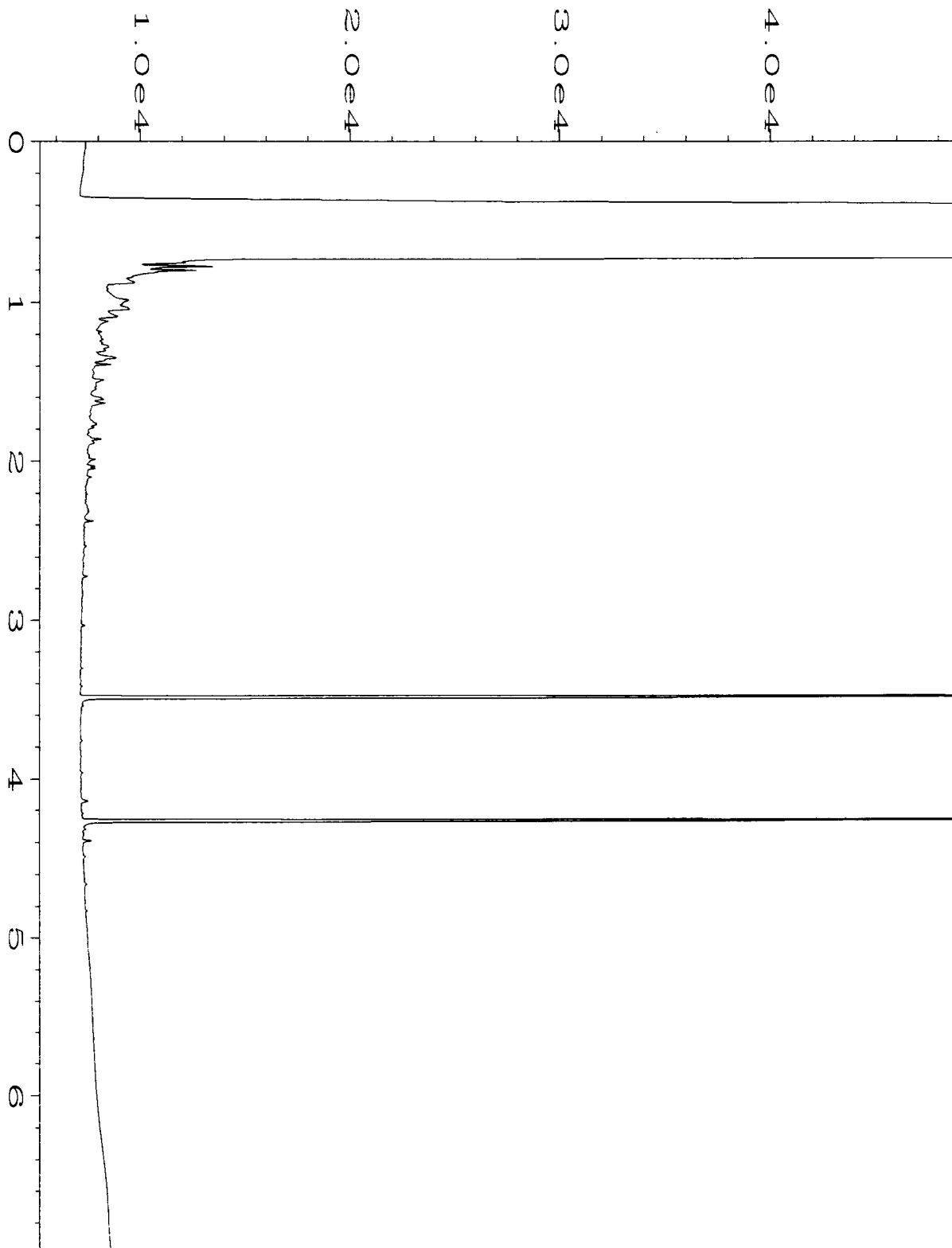
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Data File Name	: C:\HPCHEM\6\DATA\02-19-16\031F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 31
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602327-01	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Feb 16 03:52 PM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 09:30 AM		

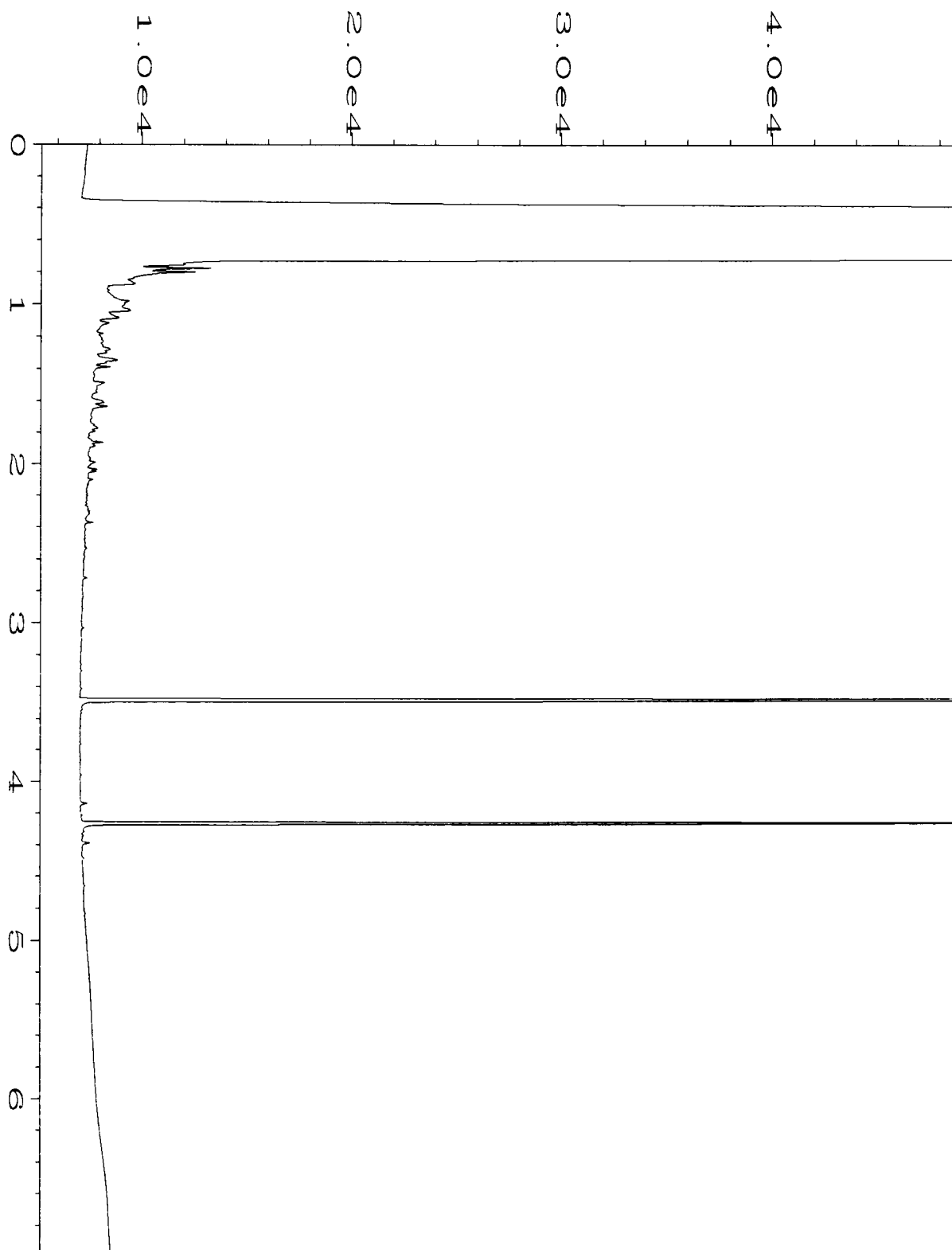


Data File Name	: C:\HPCHEM\6\DATA\02-19-16\032F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 32
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602327-02	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Feb 16 04:02 PM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 09:30 AM		

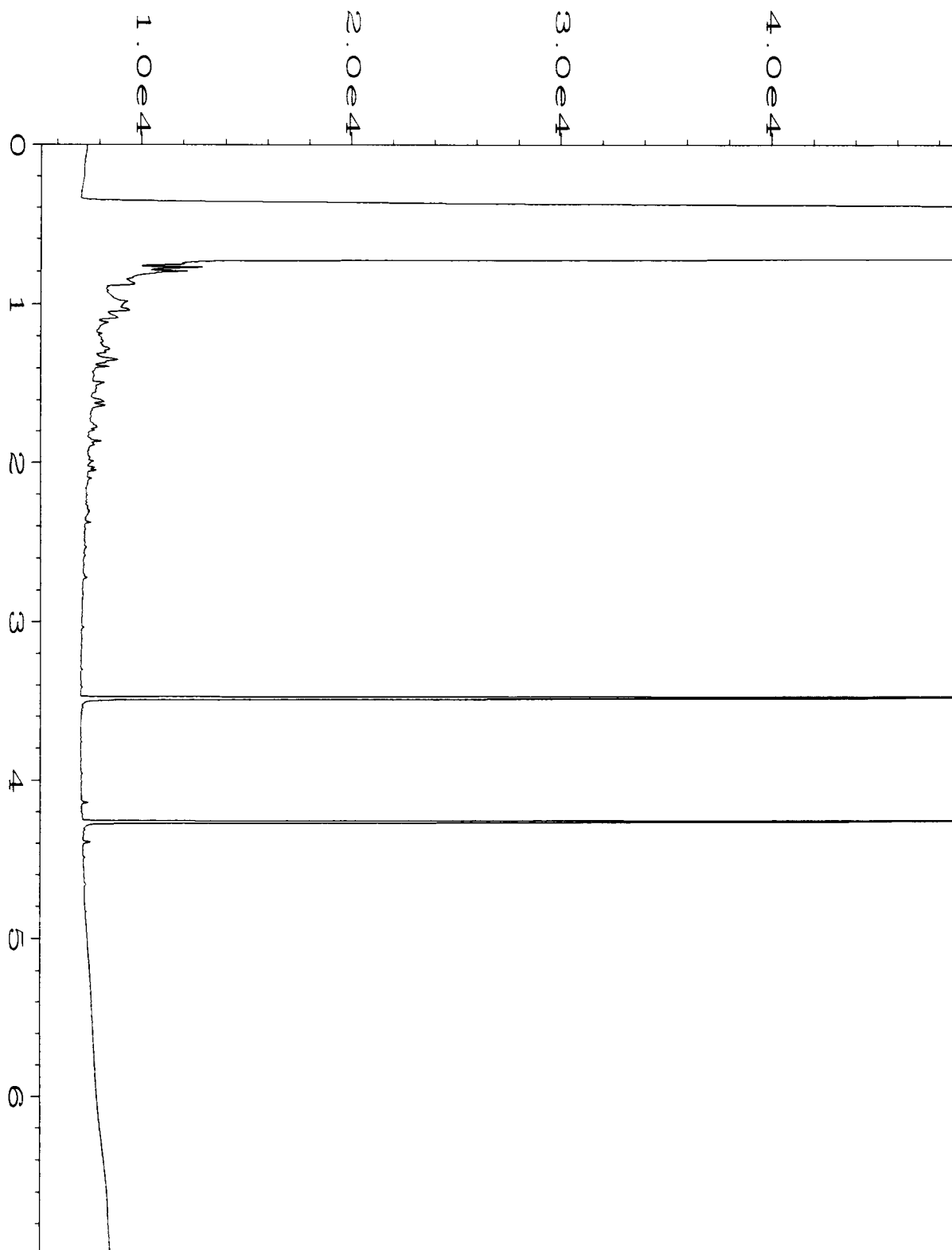


Data File Name	: C:\HPCHEM\6\DATA\02-19-16\033F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 33
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602327-03	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Feb 16 04:13 PM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 09:30 AM		

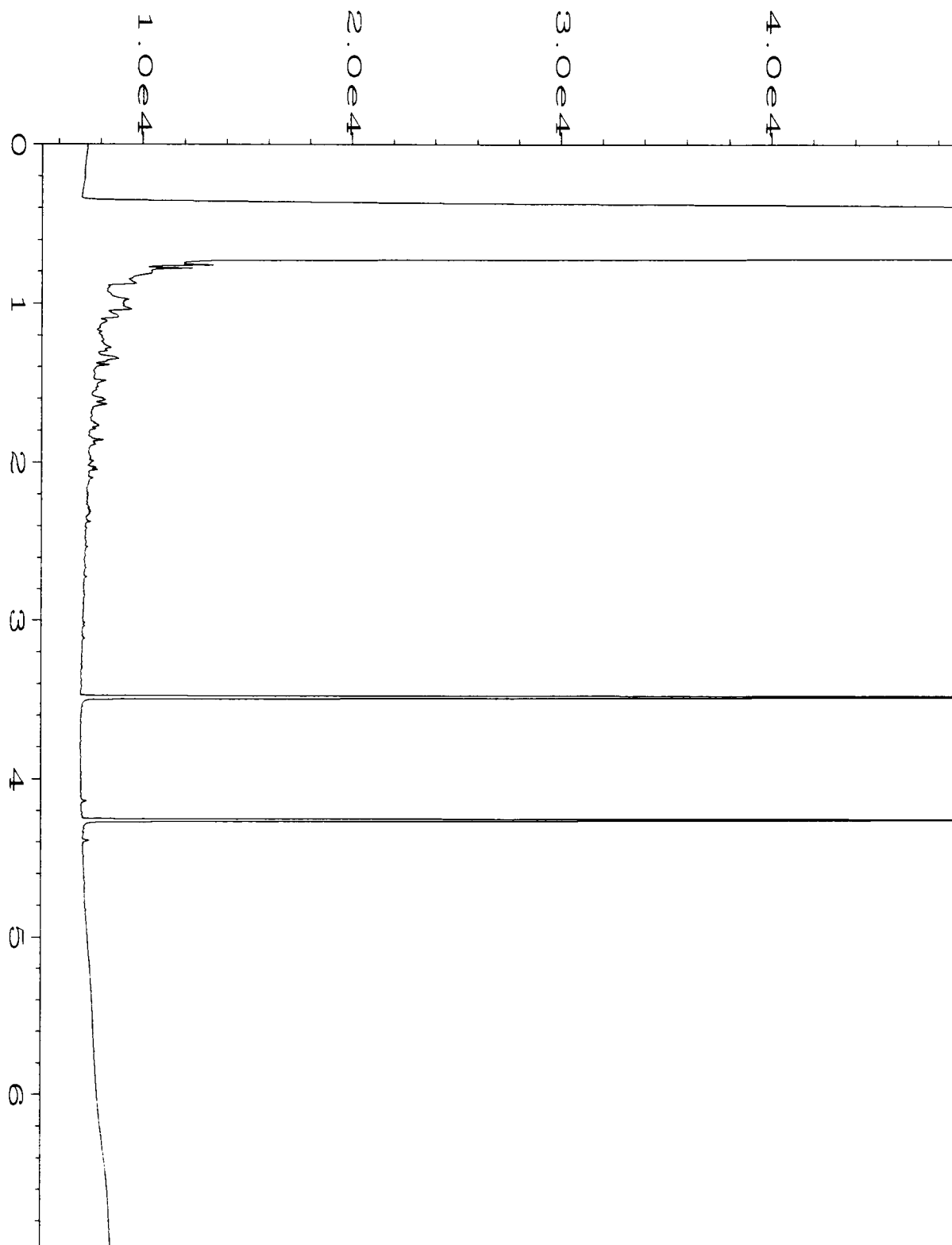




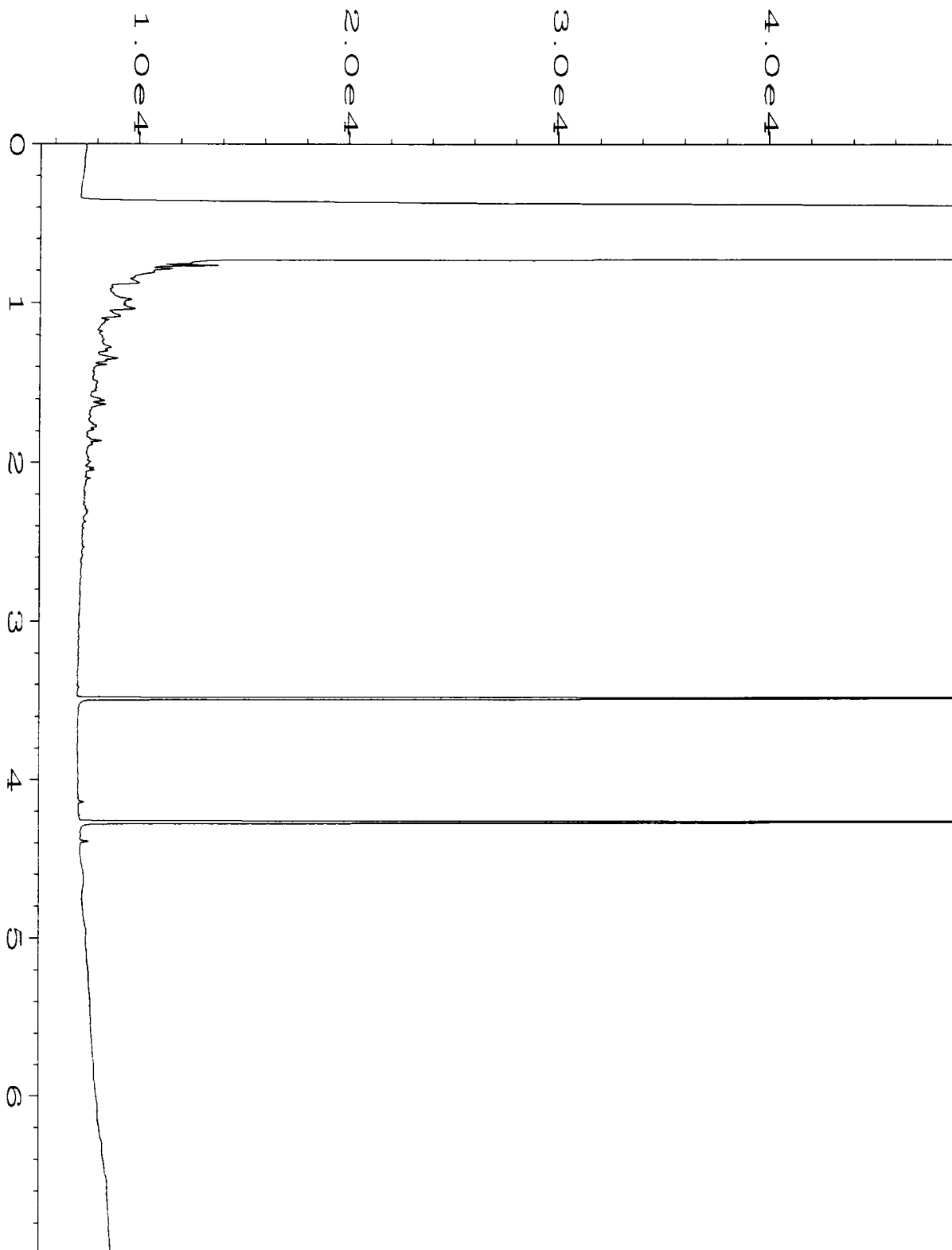
Data File Name	: C:\HPCHEM\6\DATA\02-19-16\034F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 34
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602327-04	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Feb 16 04:24 PM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 09:30 AM		



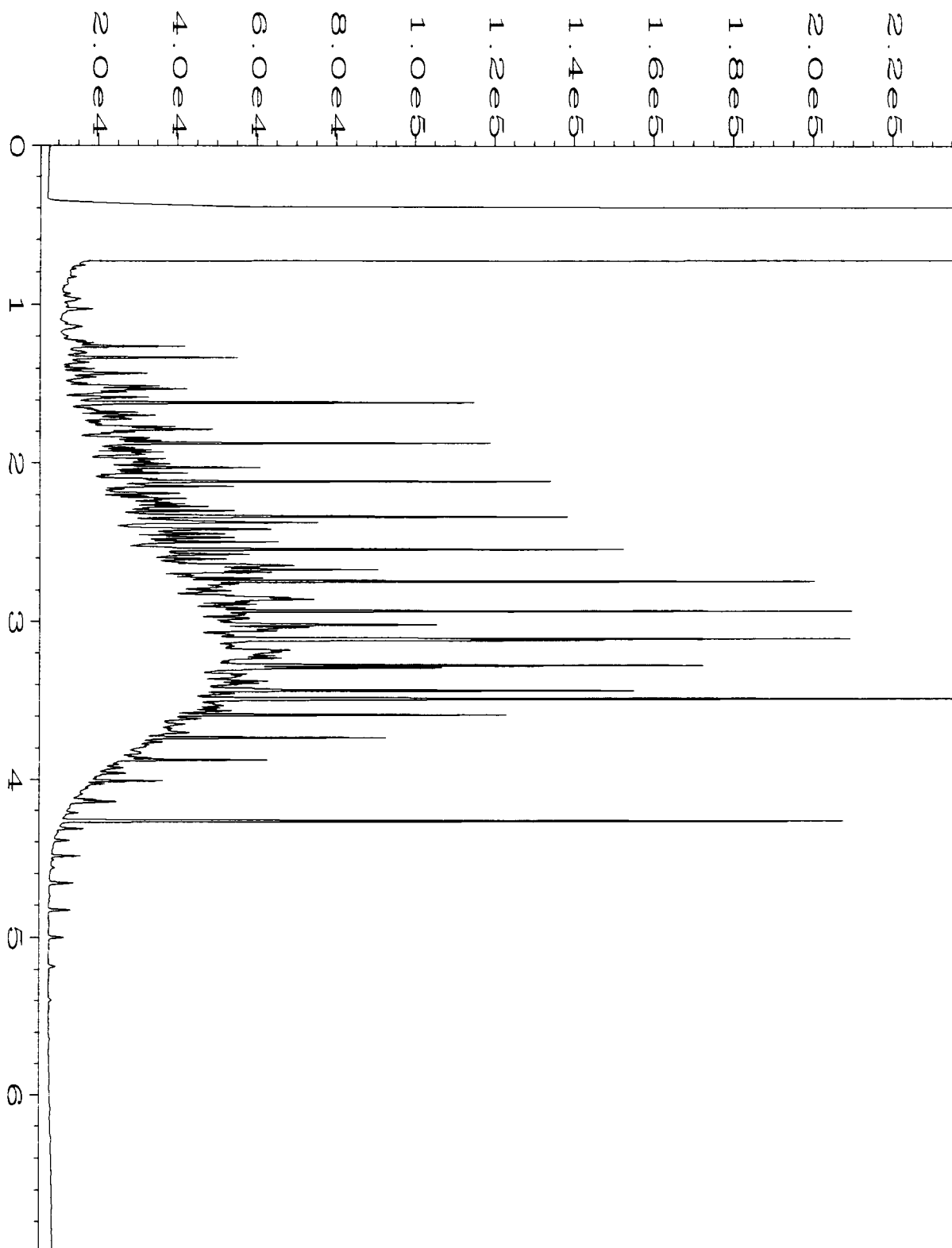
Data File Name	: C:\HPCHEM\6\DATA\02-19-16\035F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 35
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602327-05	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Feb 16 04:35 PM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 09:30 AM		



Data File Name	: C:\HPCHEM\6\DATA\02-19-16\036F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 36
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602327-06	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Feb 16 04:46 PM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 09:30 AM		



Data File Name	: C:\HPCHEM\6\DATA\02-19-16\027F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 27
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 06-326 mb	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Feb 16 03:08 PM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 09:32 AM		



Data File Name	: C:\HPCHEM\6\DATA\02-19-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Feb 16 06:47 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 09:29 AM		

602327

SAMPLE CHAIN OF CUSTODY

ME 02/19/16

002/152

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. MADISON TACO TIME 1002-003 PO # \_\_\_\_\_

REMARKS low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method GEMS Y / N \_\_\_\_\_

TURNAROUND TIME

Standard (2 Weeks)  
 RUSH 24hr TAT  
 Rush charges authorized by: Chuck Cacek

SAMPLE DISPOSAL  
 Dispose after 30 days  
 Return samples  
 Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED				Notes
								NWTPH-DX	NWTPH-GX	BTEX by 8021B	CVOCs by 8260B	
VE3-N6-18	VE3-N6	18'	01A-E	2/19/16	0948	Scil	5	X				
VE3-N12-19	VE3-N12	19'	02		0900		5	X				
VE7-N13-19	VE7-N13	19'	03		1065		5	X				
VE9-N12-19	VE9-N12	19'	04		1050		5	X				
VE44-N10-18	VE44-N10	18'	05		1050		5	X				
VE5-N7-18	VE5-N7	18'	06		1130		5	X				
<u>[Signature]</u> 2/19/16												

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	JONATHAN LOEFFLER	SOUNDEARTH	2/19/16	1300
Received by: <u>[Signature]</u>	JAMES BRUYA	F&B	2/19	1300
Relinquished by:				
Received by:				

Samples received at 2 °C

***Friedman & Bruya, Inc. #602328***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

February 23, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on February 19, 2016 from the SOU\_1002-003\_ 20160219, F&BI 602328 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0223R.DOC



FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 19, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160219, F&BI 602328 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID  
602328 -01

SoundEarth Strategies  
VE3-N3-11

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/16

Date Received: 02/19/16

Project: SOU\_1002-003\_20160219, F&BI 602328

Date Extracted: 02/19/16

Date Analyzed: 02/19/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
VE3-N3-11 602328-01	<50	<250	91
Method Blank 06-324 MB	<50	<250	84

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/16

Date Received: 02/19/16

Project: SOU\_ 1002-003\_ 20160219, F&BI 602328

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 602311-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	94	99	64-133	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	89	58-147

# FRIEDMAN & BRUYA, INC.

---

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

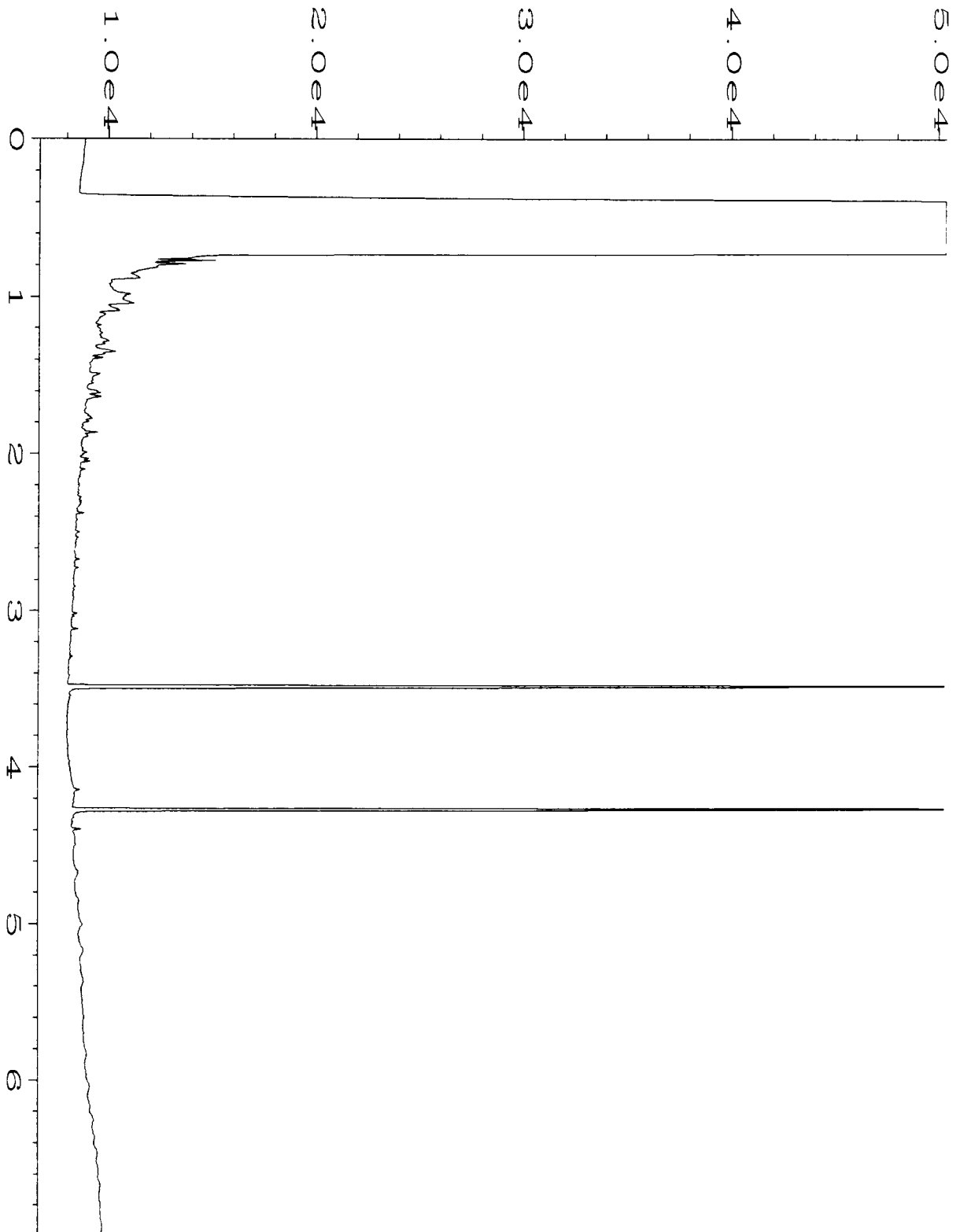
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

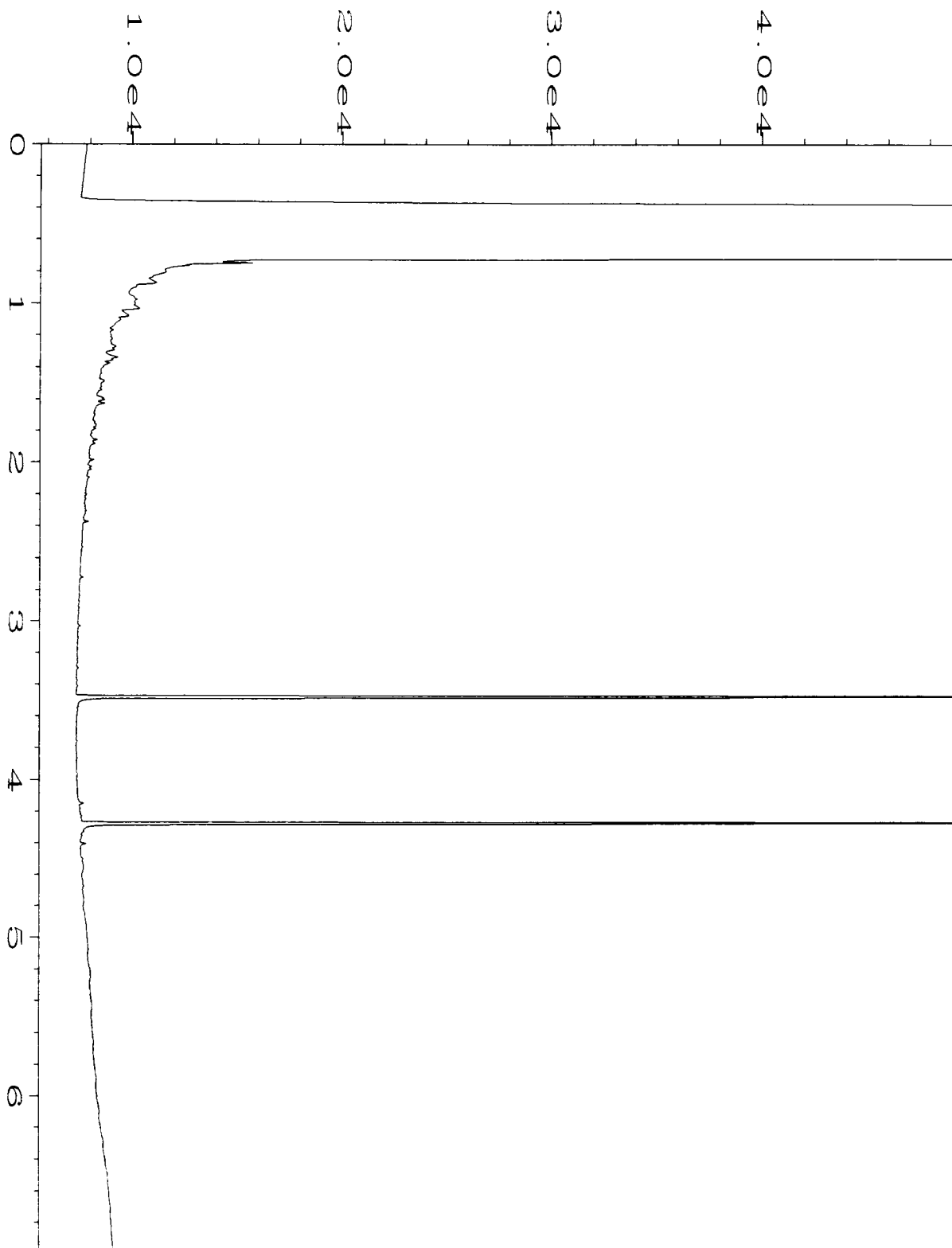
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

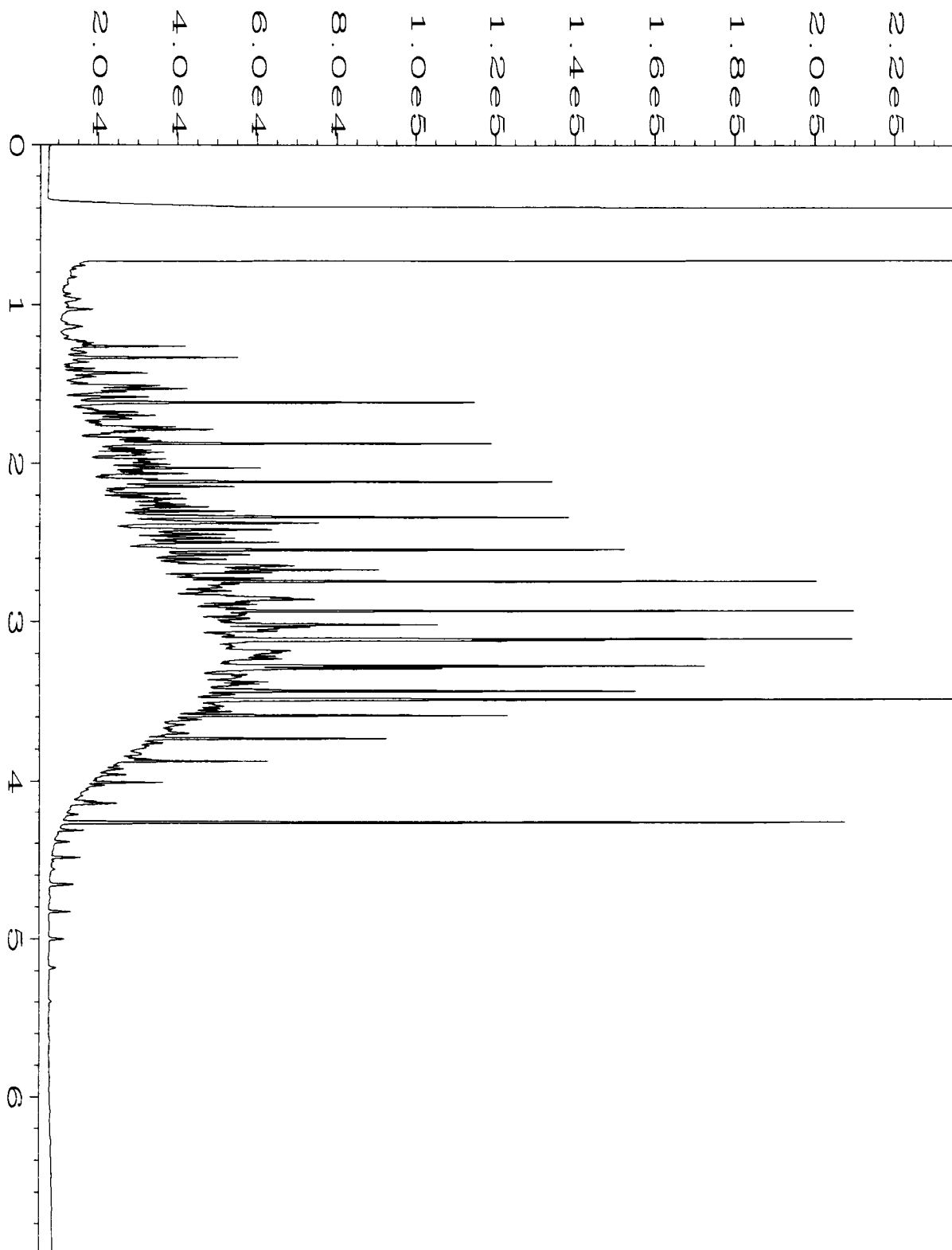
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Data File Name	: C:\HPCHEM\6\DATA\02-19-16\026F0501.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 26
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602328-01	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Feb 16 02:36 PM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 09:30 AM		



Data File Name	: C:\HPCHEM\6\DATA\02-19-16\006F0401.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 6
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 06-324 mb	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Feb 16 09:46 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 09:30 AM		



Data File Name	: C:\HPCHEM\6\DATA\02-19-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Feb 16 06:47 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 09:30 AM		

1) 602378

**SAMPLE CHAIN OF CUSTODY**

ME 02/19/16

Page # 1 of 1 COI

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) 	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method	GEMS Y / N

TURNAROUND TIME Standard (2 Weeks) X RUSH <u>24 hr</u> TAT Rush charges authorized by: <u>Chuck Cacek</u>
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED				Notes
								NWTPH-DX	NWTPH-GX	BTEX by 8021B	CVOCs by 8260B	
VE3-N3-11	VE3-N3	11'	01	2/19/16	0900	SOIL	1	X				

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JONATHAN LOEFFLER	SOUNDEARTH	2/19/16	1300
Received by:	JAMES BRUYA	F&B	2/19	1300
Relinquished by:				
Received by:		Samples received at <u>2</u> °C		



***Friedman & Bruya, Inc. #602353***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

February 24, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on February 22, 2016 from the SOU\_1002-003\_ 20160222, F&BI 602353 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0224R.DOC

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 22, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160222, F&BI 602353 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
602353 -01	TP102-17
602353 -02	TP102-10
602353 -03	TP102-05
602353 -04	TP103-06
602353 -05	TP103-10
602353 -06	TP103-17
602353 -07	TP104-17
602353 -08	TP104-10
602353 -09	TP104-05

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/24/16

Date Received: 02/22/16

Project: SOU\_1002-003\_20160222, F&BI 602353

Date Extracted: 02/22/16

Date Analyzed: 02/22/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE,  
XYLENES AND TPH AS GASOLINE  
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
TP102-17 602353-01	<0.02	<0.02	<0.02	<0.06	<2	90
TP103-17 602353-06	<0.02	<0.02	<0.02	<0.06	<2	92
TP104-17 602353-07	<0.02	<0.02	<0.02	<0.06	<2	92
Method Blank 06-339 MB	<0.02	<0.02	<0.02	<0.06	<2	86

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/24/16  
 Date Received: 02/22/16  
 Project: SOU\_1002-003\_20160222, F&BI 602353  
 Date Extracted: 02/22/16  
 Date Analyzed: 02/22/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
 FOR TOTAL PETROLEUM HYDROCARBONS AS  
 DIESEL AND MOTOR OIL  
 USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis  
 Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> (% Recovery) (Limit 56-165)
TP102-17 602353-01	<50	<250	90
TP102-10 602353-02	<50	<250	81
TP102-05 602353-03	<50	<250	80
TP103-06 602353-04	<50	<250	89
TP103-10 602353-05	<50	<250	81
TP103-17 602353-06	<50	<250	80
TP104-17 602353-07	<50	<250	80
TP104-10 602353-08	<50	<250	82
TP104-05 602353-09	<50	<250	80
Method Blank 06-340 MB	<50	<250	84

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/24/16

Date Received: 02/22/16

Project: SOU\_1002-003\_20160222, F&BI 602353

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE,  
XYLENES, AND TPH AS GASOLINE  
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 602354-04 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	81	69-120
Toluene	mg/kg (ppm)	0.5	87	70-117
Ethylbenzene	mg/kg (ppm)	0.5	88	65-123
Xylenes	mg/kg (ppm)	1.5	86	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/24/16

Date Received: 02/22/16

Project: SOU\_1002-003\_20160222, F&BI 602353

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 602346-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	90	90	63-146	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	89	79-144

# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

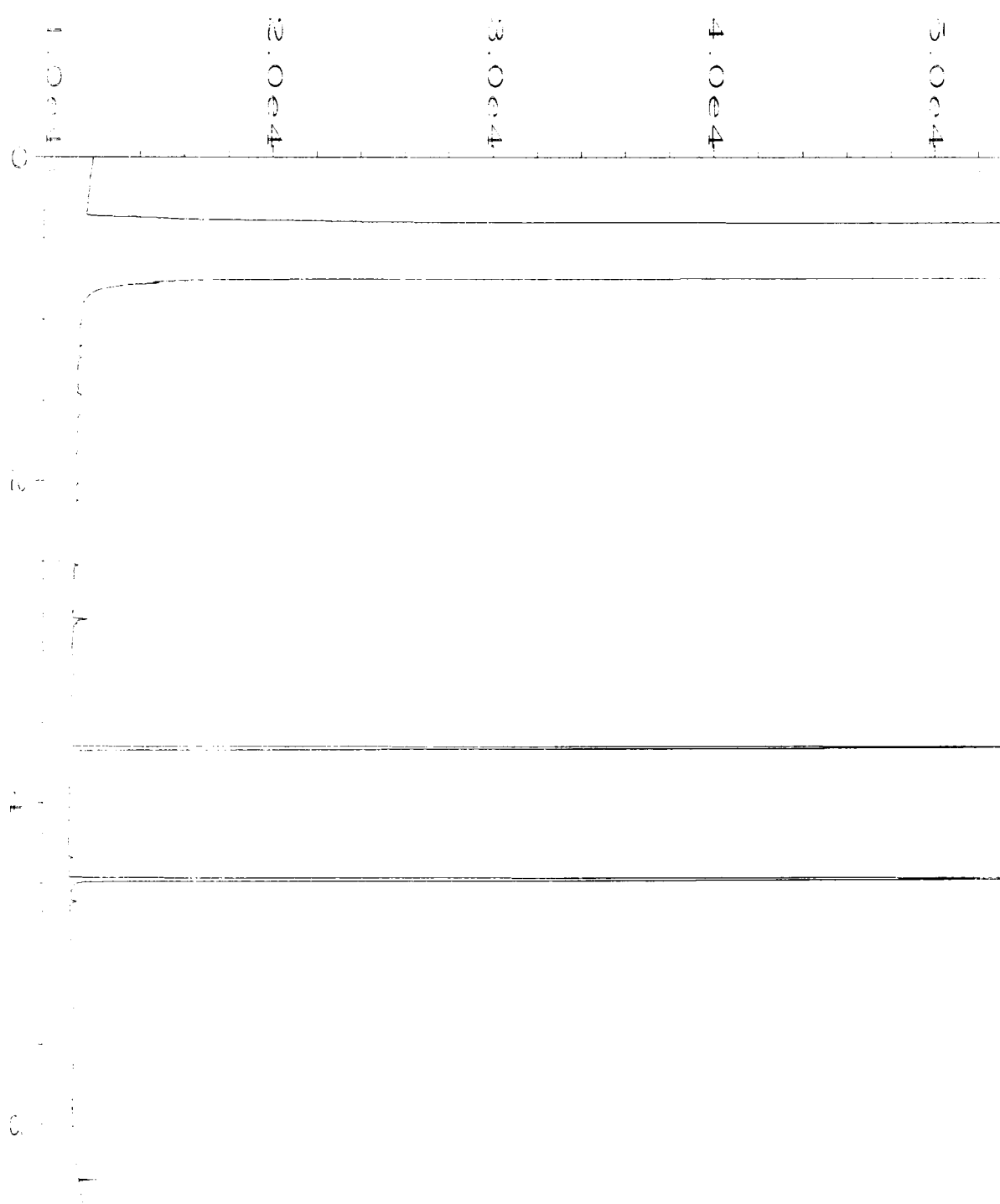
pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

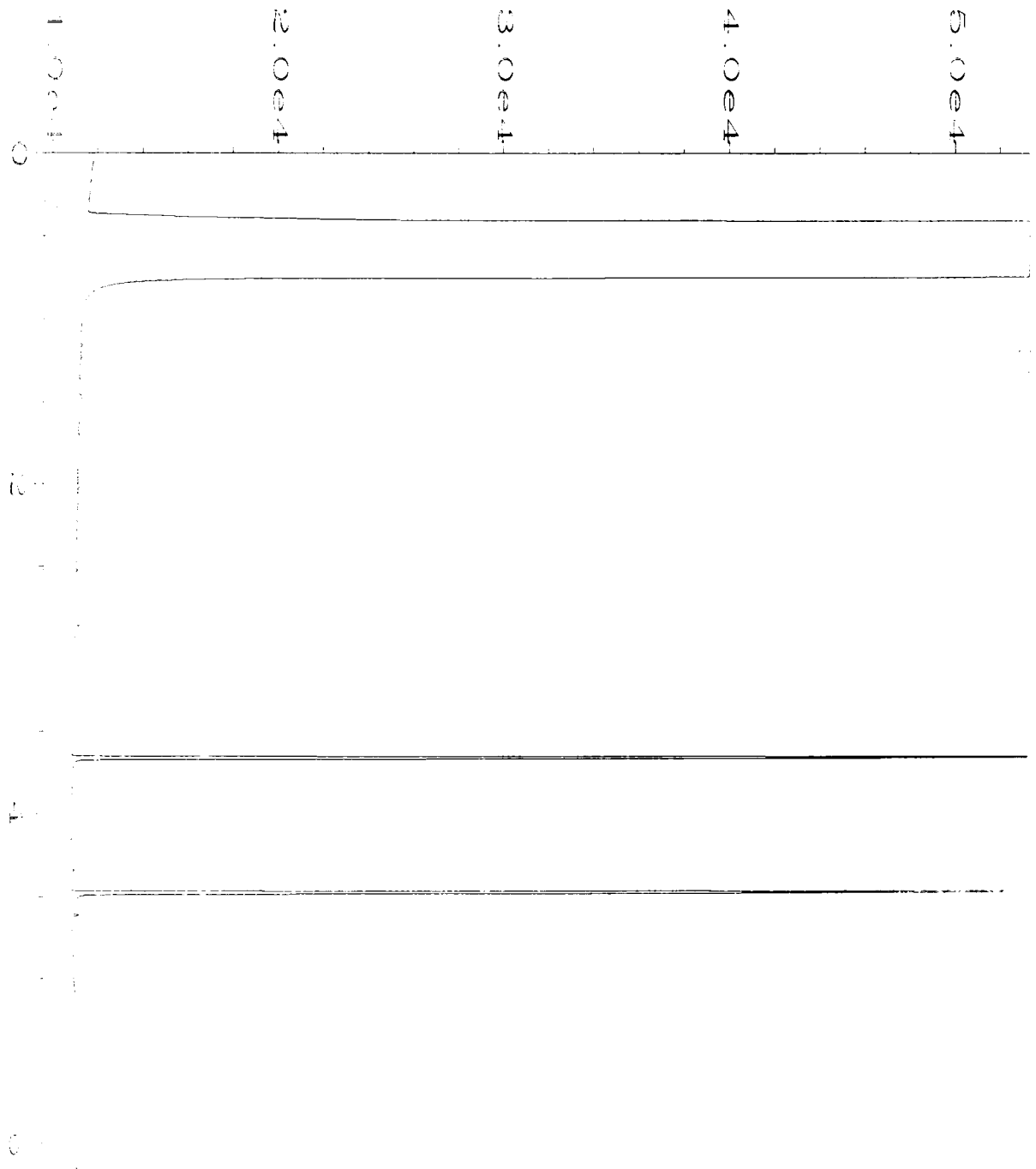
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



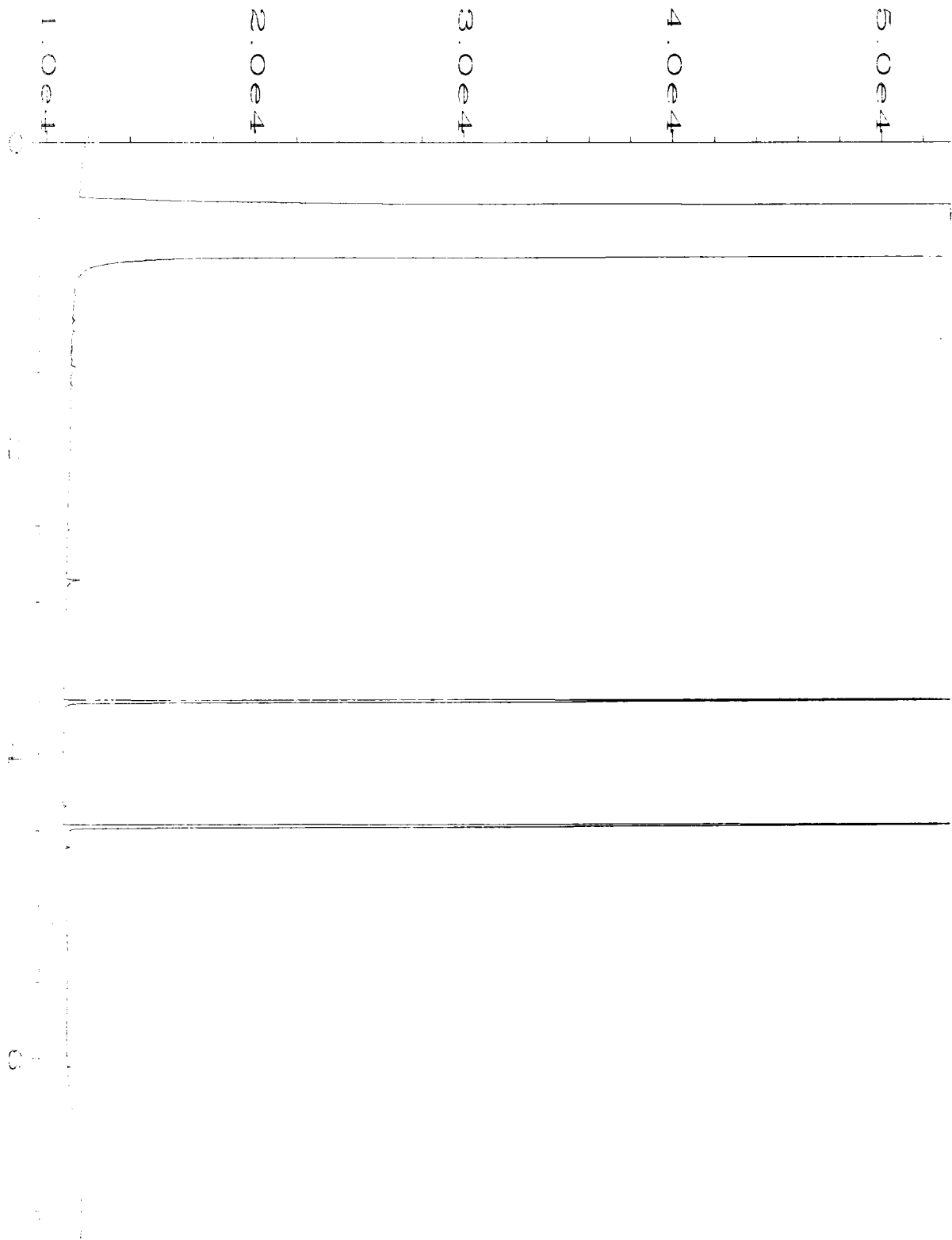


Data File Name	: C:\HPCHEM\1\DATA\02-22-16\011F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 11
Instrument	: GC1	Injection Number	: 1
Sample Name	: 602353-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 22 Feb 16 10:32 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 11:53 AM		

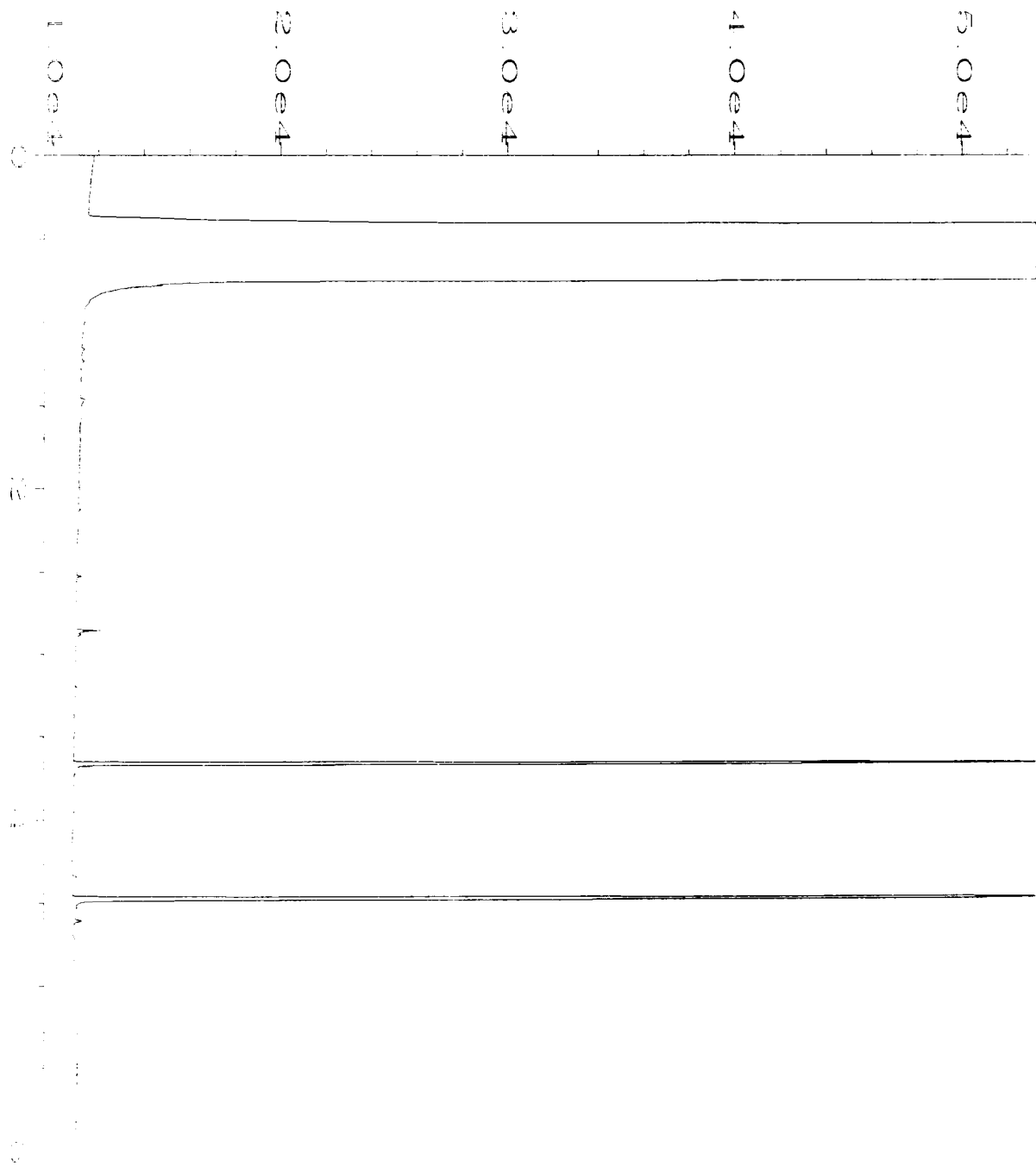
Date: 02/22/16  
Operator: mwdl  
Instrument: GC1  
Sample Name: 602353-02  
Run Time Bar Code: 02/22/16 10:43 AM



Data File Name : C:\HPCHEM\1\DATA\02-22-16\012F0301.D  
Operator : mwdl  
Instrument : GC1  
Sample Name : 602353-02  
Run Time Bar Code: 02/22/16 10:43 AM  
Acquired on : 22 Feb 16 10:43 AM  
Report Created on: 22 Feb 16 11:53 AM  
Page Number : 1  
Vial Number : 12  
Injection Number : 1  
Sequence Line : 3  
Instrument Method: DX.MTH  
Analysis Method : DX.MTH

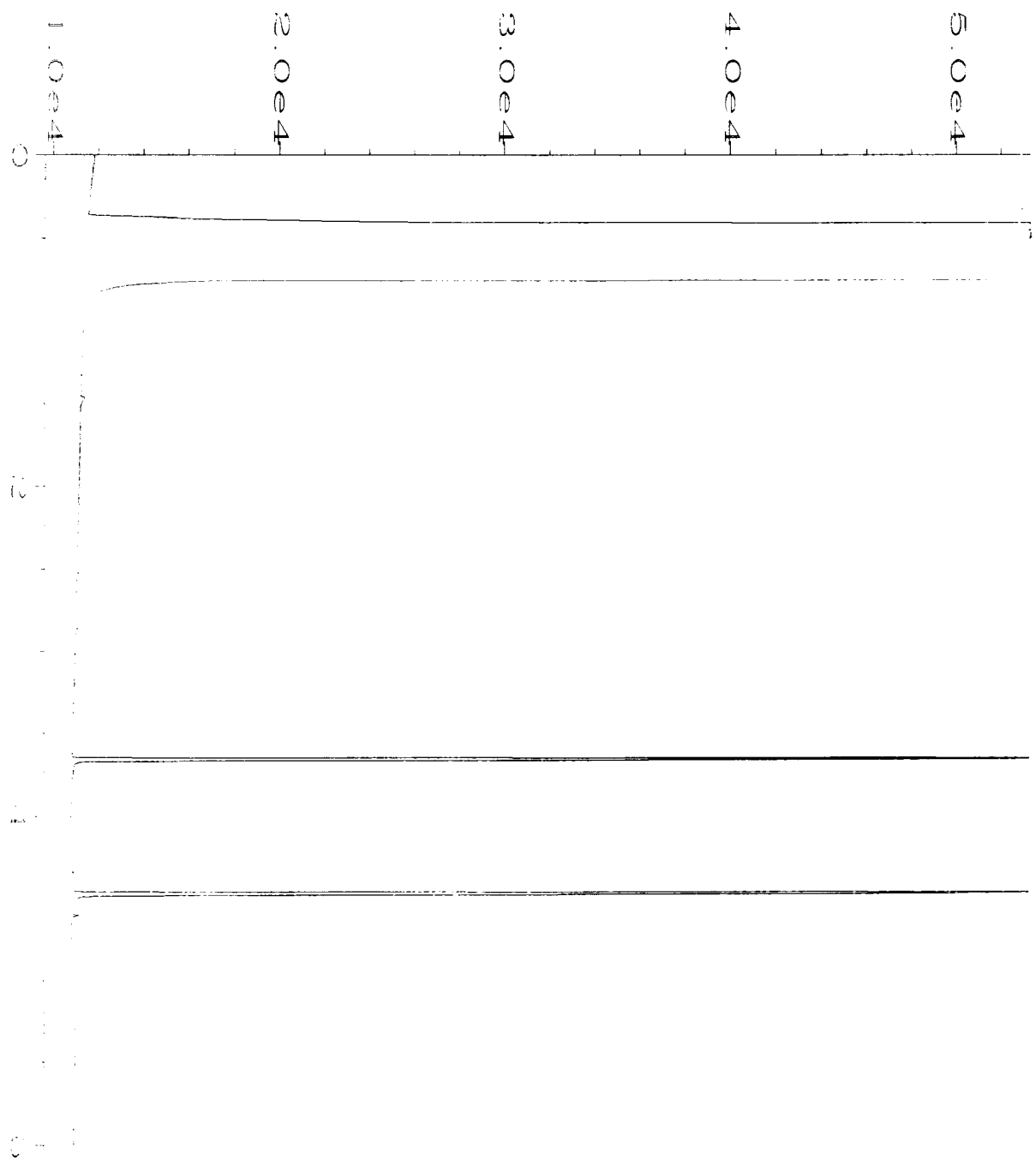


Data File Name	: C:\HPCHEM\1\DATA\02-22-16\013F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 13
Instrument	: GC1	Injection Number	: 1
Sample Name	: 602353-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 22 Feb 16 10:54 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 11:53 AM		



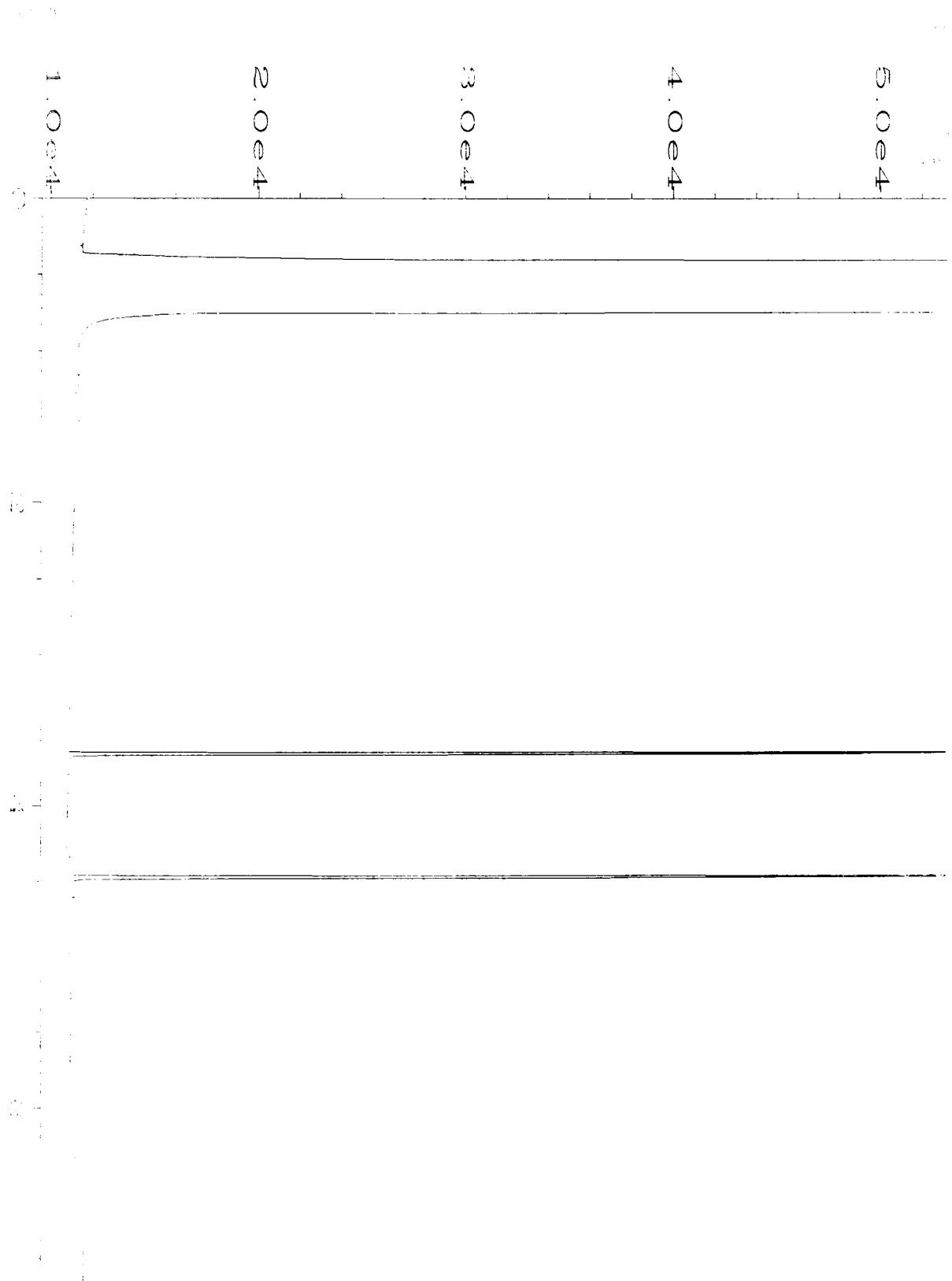
Data File Name	: C:\HPCHEM\1\DATA\02-22-16\014F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 14
Instrument	: GC1	Injection Number	: 1
Sample Name	: 602353-04	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 22 Feb 16 11:05 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 11:53 AM		

Sample Name  
Operator  
Instrument  
Sample No  
Run Time  
Acquired  
Reported



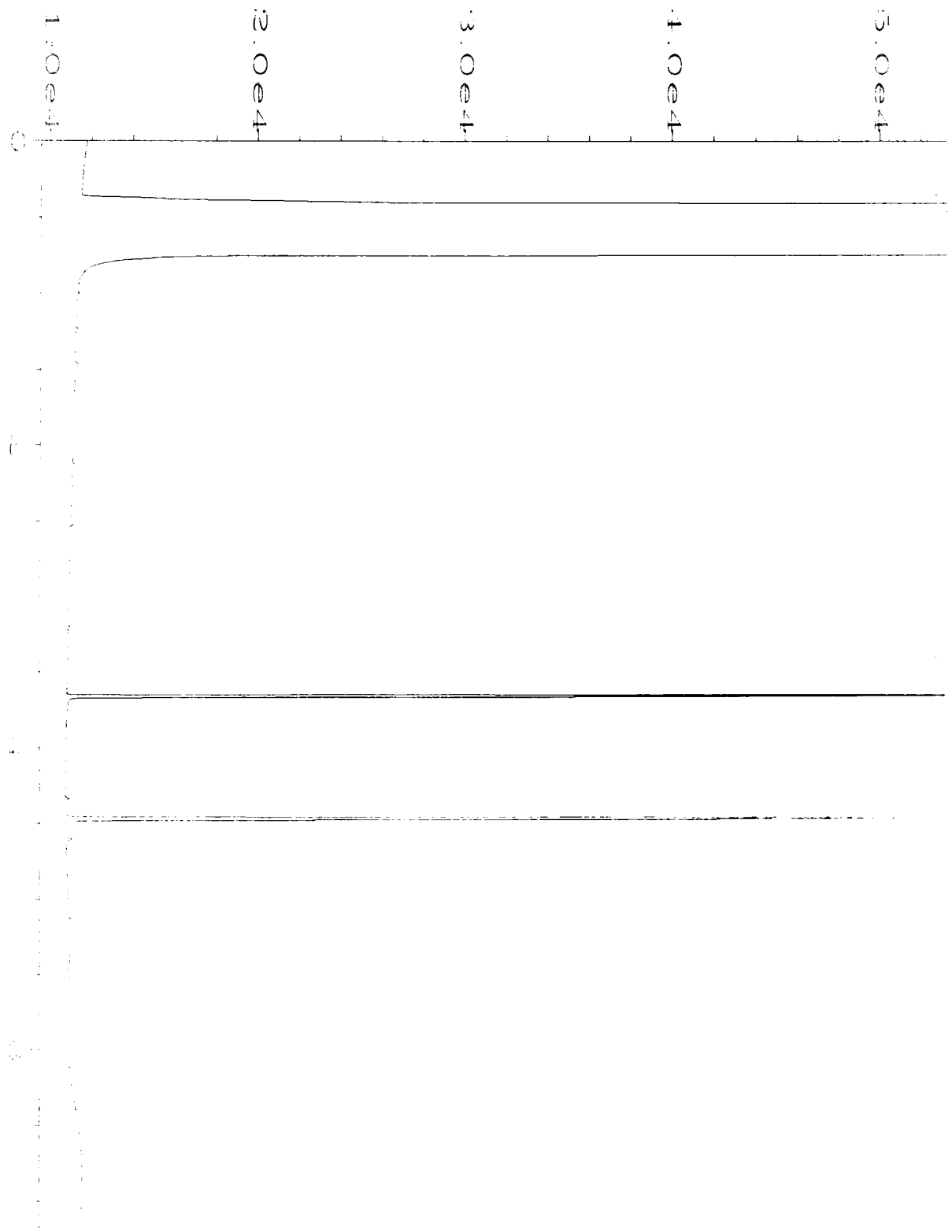
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Operator : mwdl  
Instrument : GC1  
Sample Name : 602353-05  
Run Time Bar Code:  
Acquired on : 22 Feb 16 11:16 AM  
Report Created on: 22 Feb 16 11:53 AM  
Page Number : 1  
Vial Number : 15  
Injection Number : 1  
Sequence Line : 3  
Instrument Method: DX.MTH  
Analysis Method : DX.MTH

Data File  
Operator  
Instrument  
Sample Name  
Run Time Bar Code  
Acquired on  
Report Created

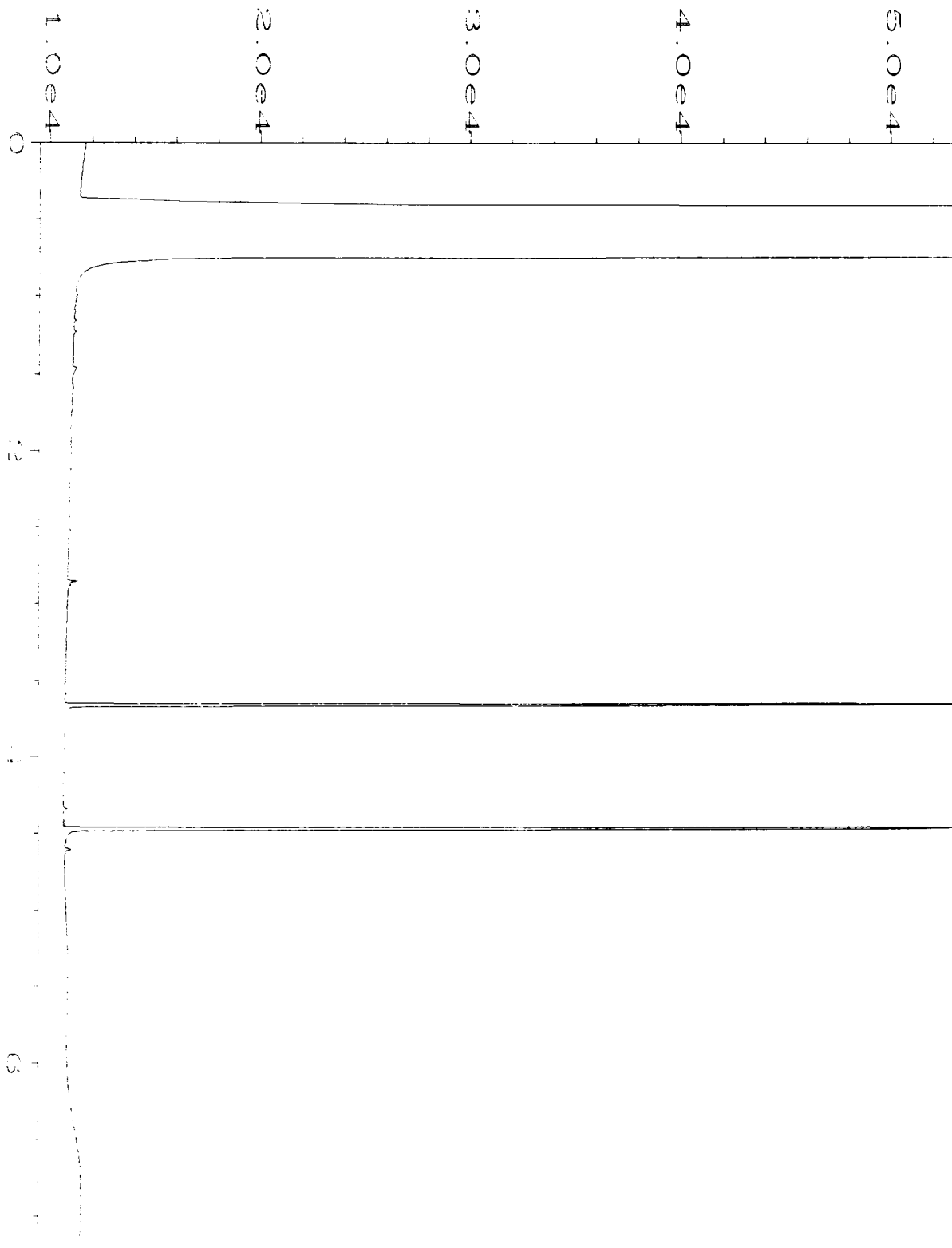


Data File Name	: C:\HPCHEM\1\DATA\02-22-16\016F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 16
Instrument	: GC1	Injection Number	: 1
Sample Name	: 602353-06	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 22 Feb 16 11:27 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 11:53 AM		

Operator : mwdl  
Instrument : GC1  
Sample Name : 602353-07  
Run Time Code :  
Acquired on : 22 Feb 16 11:38 AM  
Report Created on : 22 Feb 16 11:53 AM

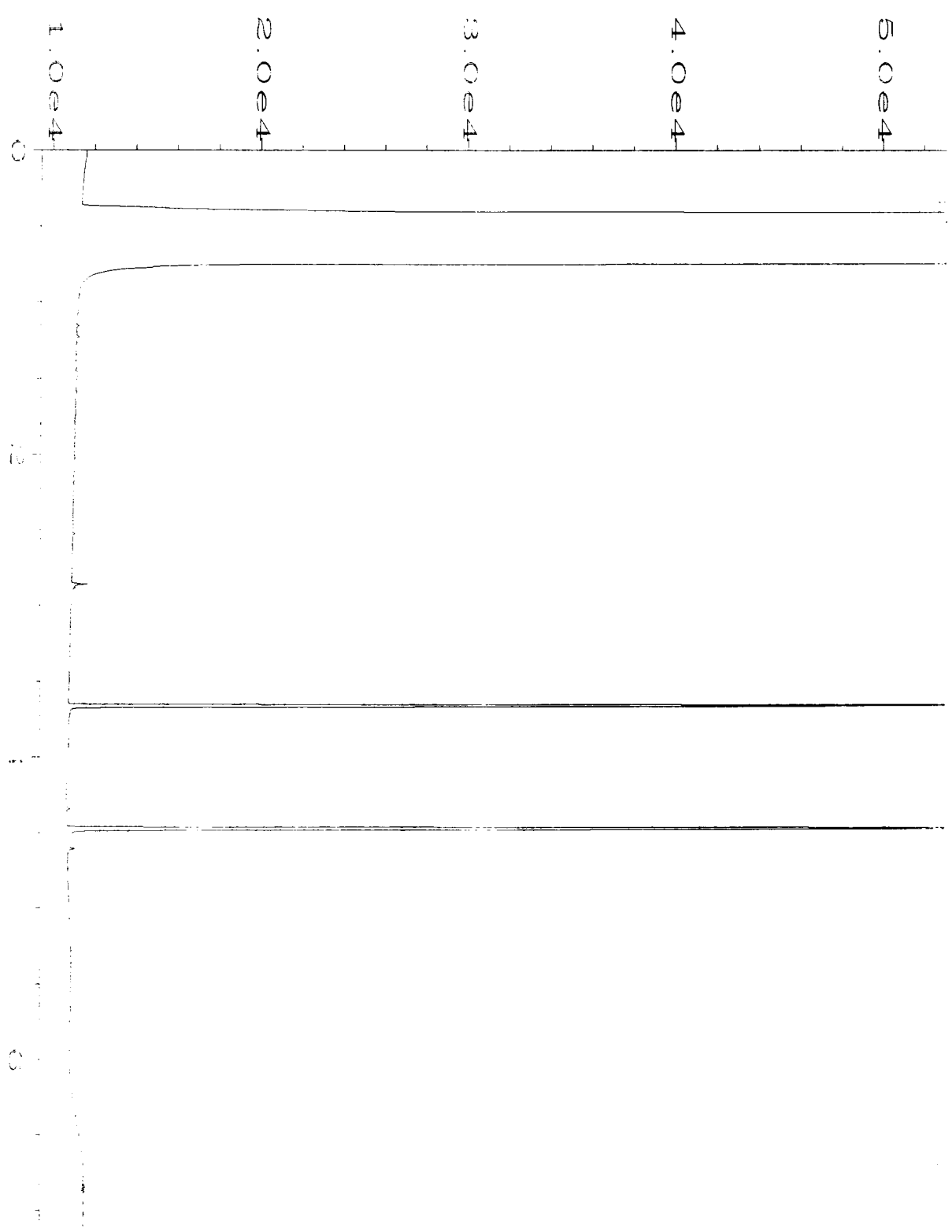


Data File Name : C:\HPCHEM\1\DATA\02-22-16\017F0301.D  
Operator : mwdl  
Instrument : GC1  
Sample Name : 602353-07  
Run Time Bar Code :  
Acquired on : 22 Feb 16 11:38 AM  
Report Created on : 22 Feb 16 11:53 AM  
Page Number : 1  
Vial Number : 17  
Injection Number : 1  
Sequence Line : 3  
Instrument Method : DX.MTH  
Analysis Method : DX.MTH



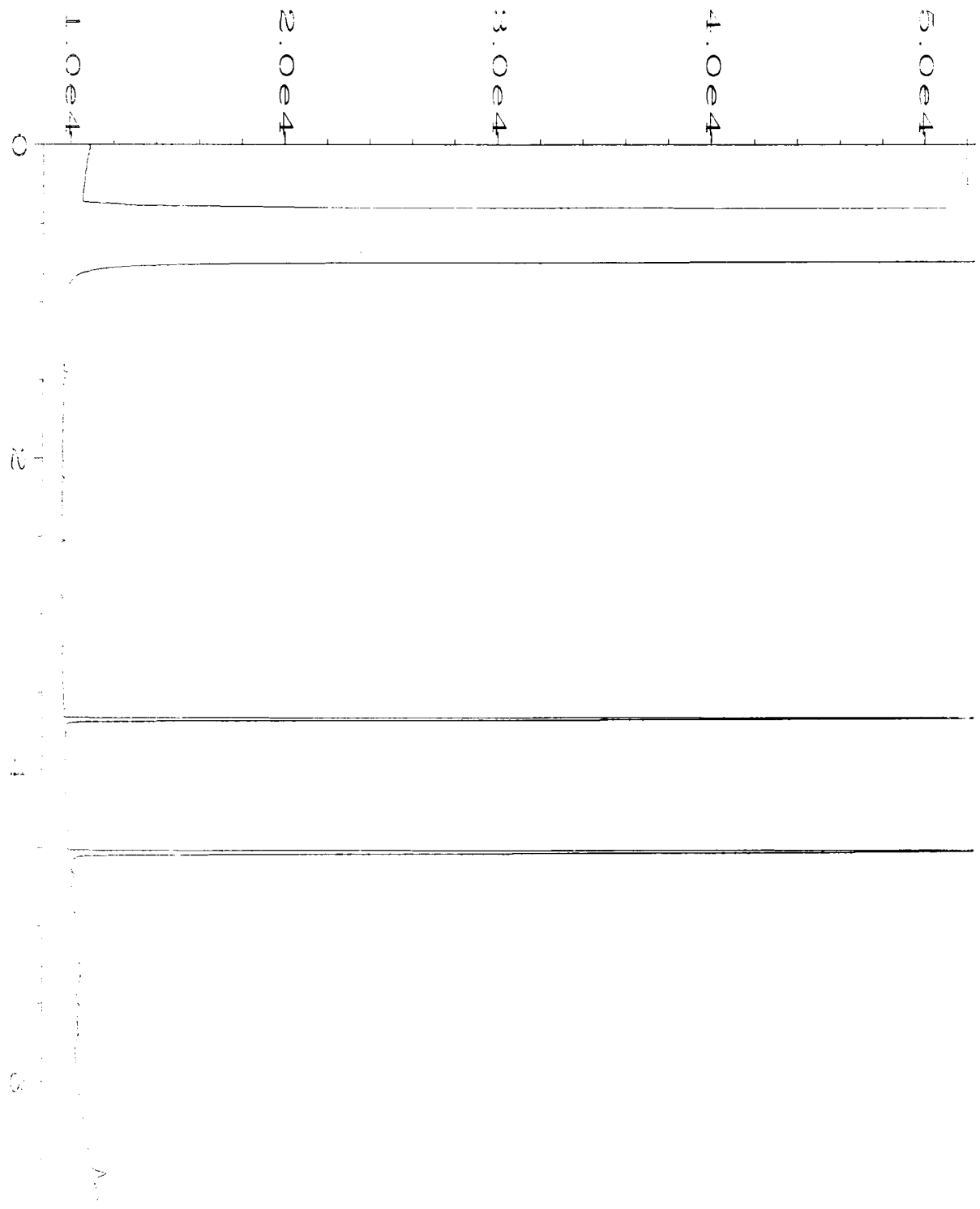
Data File Name	: C:\HPCHEM\1\DATA\02-22-16\018F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 18
Instrument	: GC1	Injection Number	: 1
Sample Name	: 602353-08	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 22 Feb 16 11:49 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 12:09 PM		



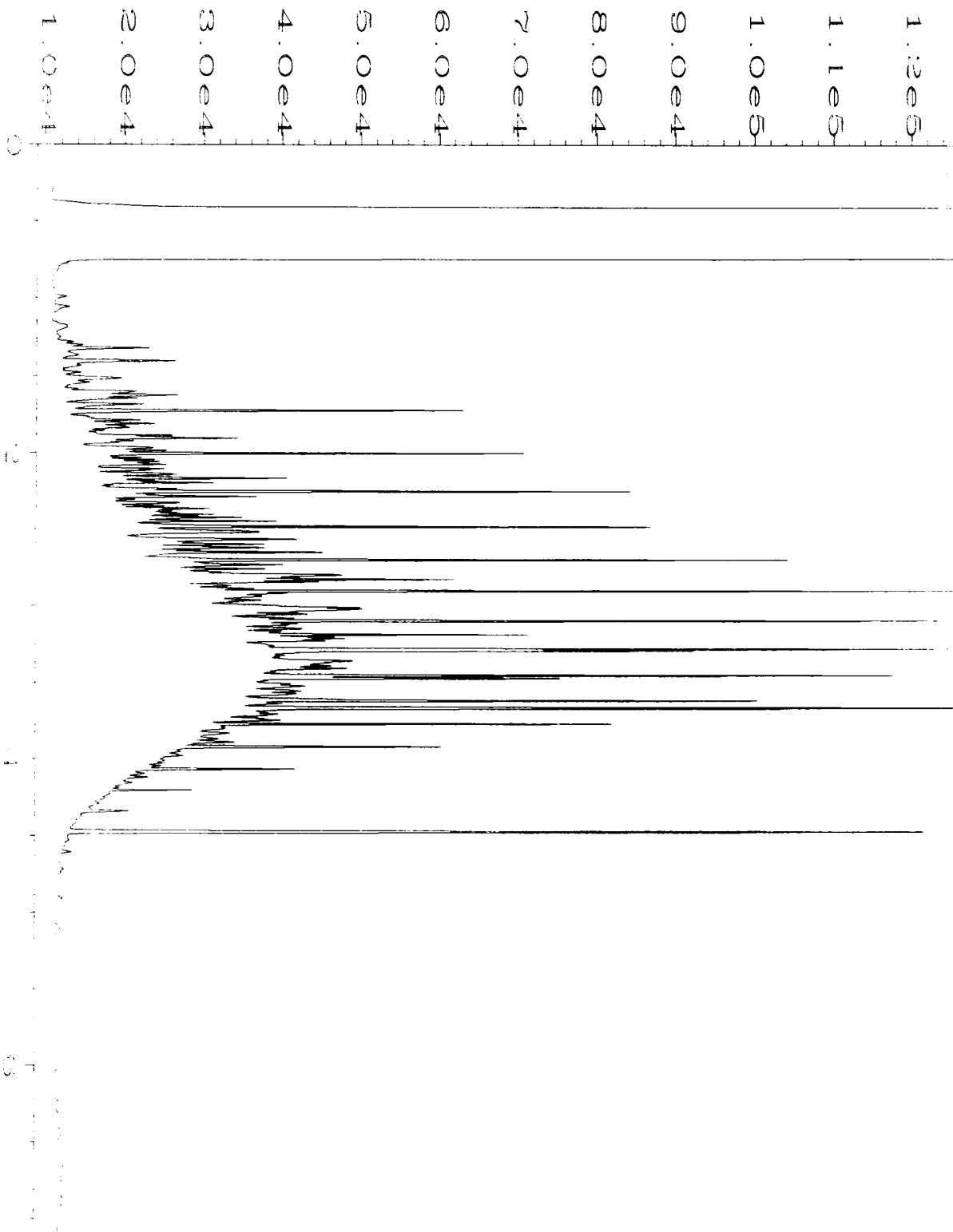


Data File Name	: C:\HPCHEM\1\DATA\02-22-16\019F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 19
Instrument	: GC1	Injection Number	: 1
Sample Name	: 602353-09	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 22 Feb 16 12:00 PM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 12:13 PM		

Date: 2/22/16  
Operator: mwdl  
Instrument: GC1  
Sample Name: 06-340 mb  
Run Time Bar Code: 22 Feb 16 09:40 AM  
Acquired on: 22 Feb 16 09:40 AM  
Report Created on: 22 Feb 16 11:54 AM



Data File Name	: C:\HPCHEM\1\DATA\02-22-16\006F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 6
Instrument	: GC1	Injection Number	: 1
Sample Name	: 06-340 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 22 Feb 16 09:40 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 11:54 AM		



Data File Name	: C:\HPCHEM\1\DATA\02-22-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 22 Feb 16 06:47 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 11:54 AM		

1 ( ~~602348NP~~ ) 602353

**SAMPLE CHAIN OF CUSTODY** ME 02/22/16

SAMPLERS (signature) 	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS 1 low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method	GEMS Y / N

Page # 1 of 1 US3/103

**TURNAROUND TIME**  
Standard (2 Weeks) *Same day*  
 RUSH *24hr TAT 2/22/16*  
Rush charges authorized by: *Chuck Cacek*

**SAMPLE DISPOSAL**  
Dispose after 30 days  
Return samples  
Will call with instructions

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler  
Company SoundEarth Strategies, Inc.  
Address 2811 Fairview Avenue East, Suite 2000  
City, State, ZIP Seattle, Washington 98102  
Phone # (206) 306-1900 Fax # (206) 306-1907

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED					Notes	
								NWTPH-DX	NWTPH-GX	BTEX by 8021B	CVOCs by 8260B1			
TP102-17	TP102	17'	01A-02	2/20/16	0841	SOIL	5	X	*	*			* pr CL 2/22/16	
TP102-10	TP102	10'	02	↓	0843	↓	↓	X						
TP102-05	TP102	5'	03		0845			X						
TP103-06	TP103	6'	04		0902			X						
TP103-10	TP103	10'	05		0922			X						
TP103-17	TP103	17'	06		0925			X	*	*				
TP104-17	TP104	17'	07		0956			X	*	*				
TP104-10	TP104	10'	08		0958			X						
TP104-05	TP104	5'	09		1000			X						
					<i>JFL</i> 2/20/16									

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JONATHAN LOEFFLER	SOUNDEARTH	2/22/16	0805
Received by:	Nhan Phan	FBI	2/22/16	0805
Relinquished by:				
Received by:		Samples received at <u>4</u> °C		

***Friedman & Bruya, Inc. #602354***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

February 24, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on February 22, 2016 from the SOU\_1002-003\_20160222, F&BI 602354 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0224R.DOC

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 22, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160222, F&BI 602354 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
602354 -01	TP101-10
602354 -02	TP101-05
602354 -03	TP101-07
602354 -04	TP101-16

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/24/16

Date Received: 02/22/16

Project: SOU\_1002-003\_20160222, F&BI 602354

Date Extracted: 02/22/16

Date Analyzed: 02/22/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE,  
XYLENES AND TPH AS GASOLINE  
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
TP101-16 602354-04	<0.02	<0.02	<0.02	<0.06	<2	91
Method Blank 06-339 MB	<0.02	<0.02	<0.02	<0.06	<2	86



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/24/16

Date Received: 02/22/16

Project: SOU\_1002-003\_20160222, F&BI 602354

Date Extracted: 02/22/16

Date Analyzed: 02/22/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND RESIDUAL RANGE  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Residual Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
TP101-10 602354-01	<50	<250	87
TP101-07 602354-03	<50	<250	97
TP101-16 602354-04	<50	<250	86
Method Blank 06-343 MB	<50	<250	97

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/24/16

Date Received: 02/22/16

Project: SOU\_ 1002-003\_ 20160222, F&BI 602354

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE,  
XYLENES, AND TPH AS GASOLINE  
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 602354-04 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	81	69-120
Toluene	mg/kg (ppm)	0.5	87	70-117
Ethylbenzene	mg/kg (ppm)	0.5	88	65-123
Xylenes	mg/kg (ppm)	1.5	86	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/24/16

Date Received: 02/22/16

Project: SOU\_ 1002-003\_ 20160222, F&BI 602354

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 602354-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	96	90	64-133	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	90	58-147

# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

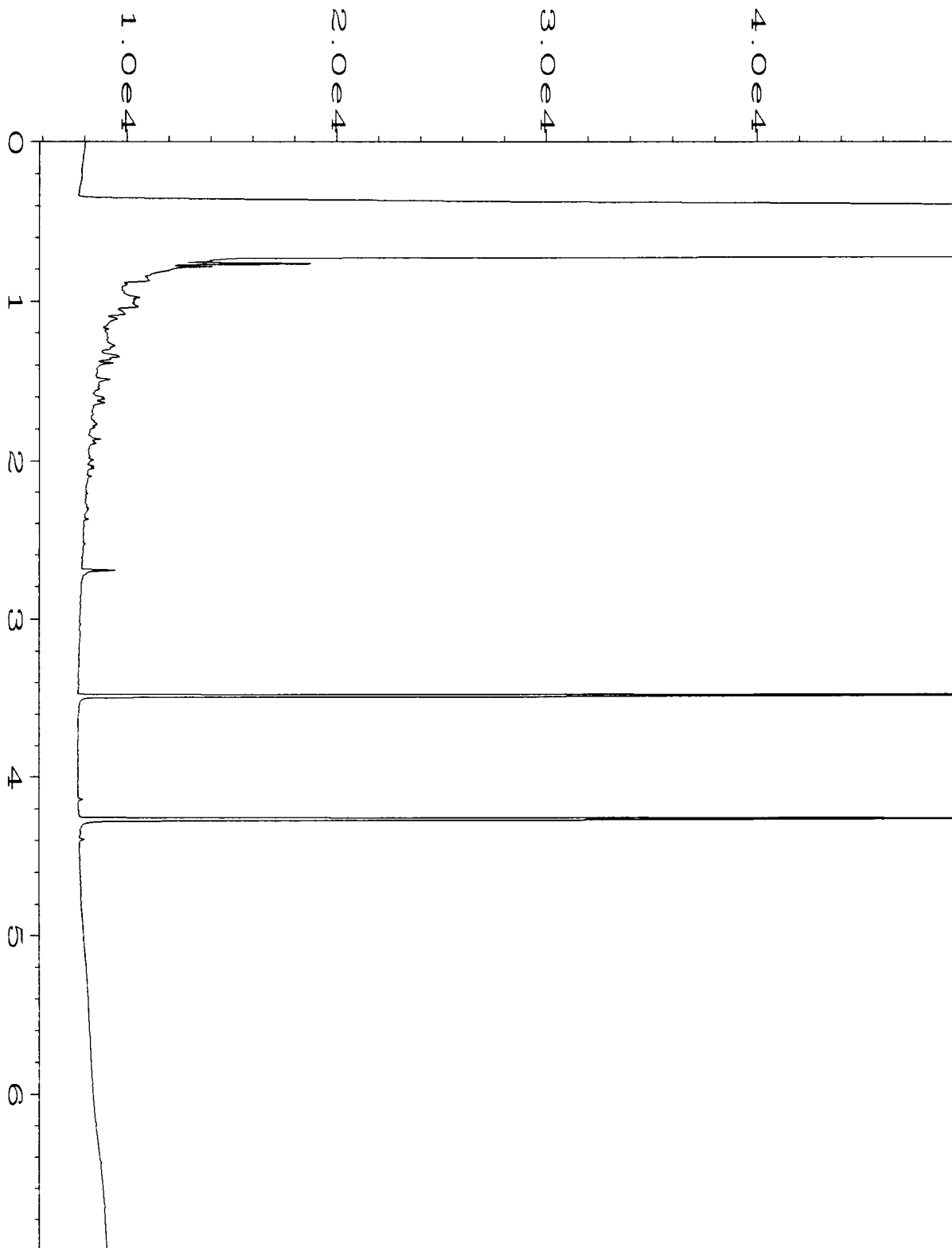
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

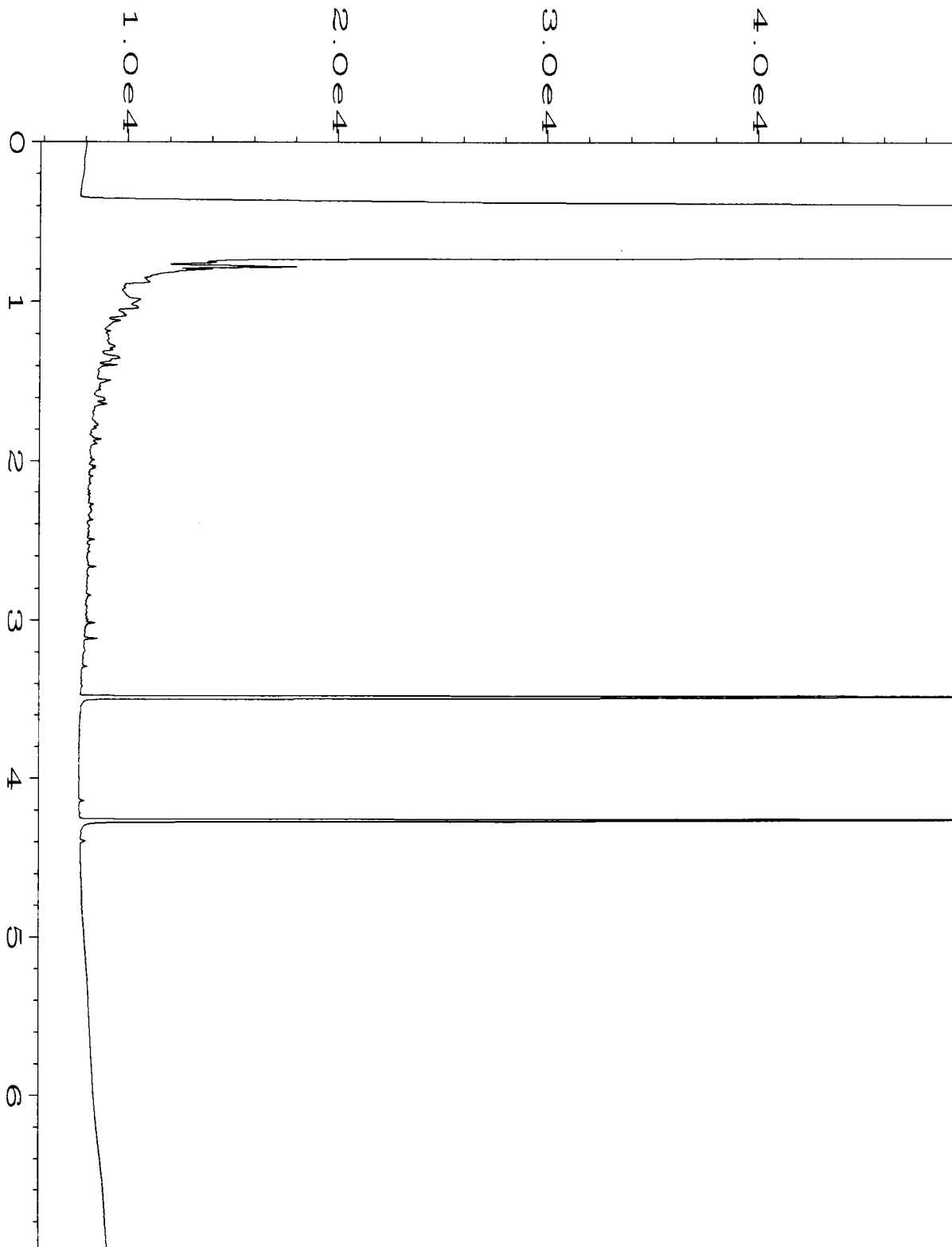
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

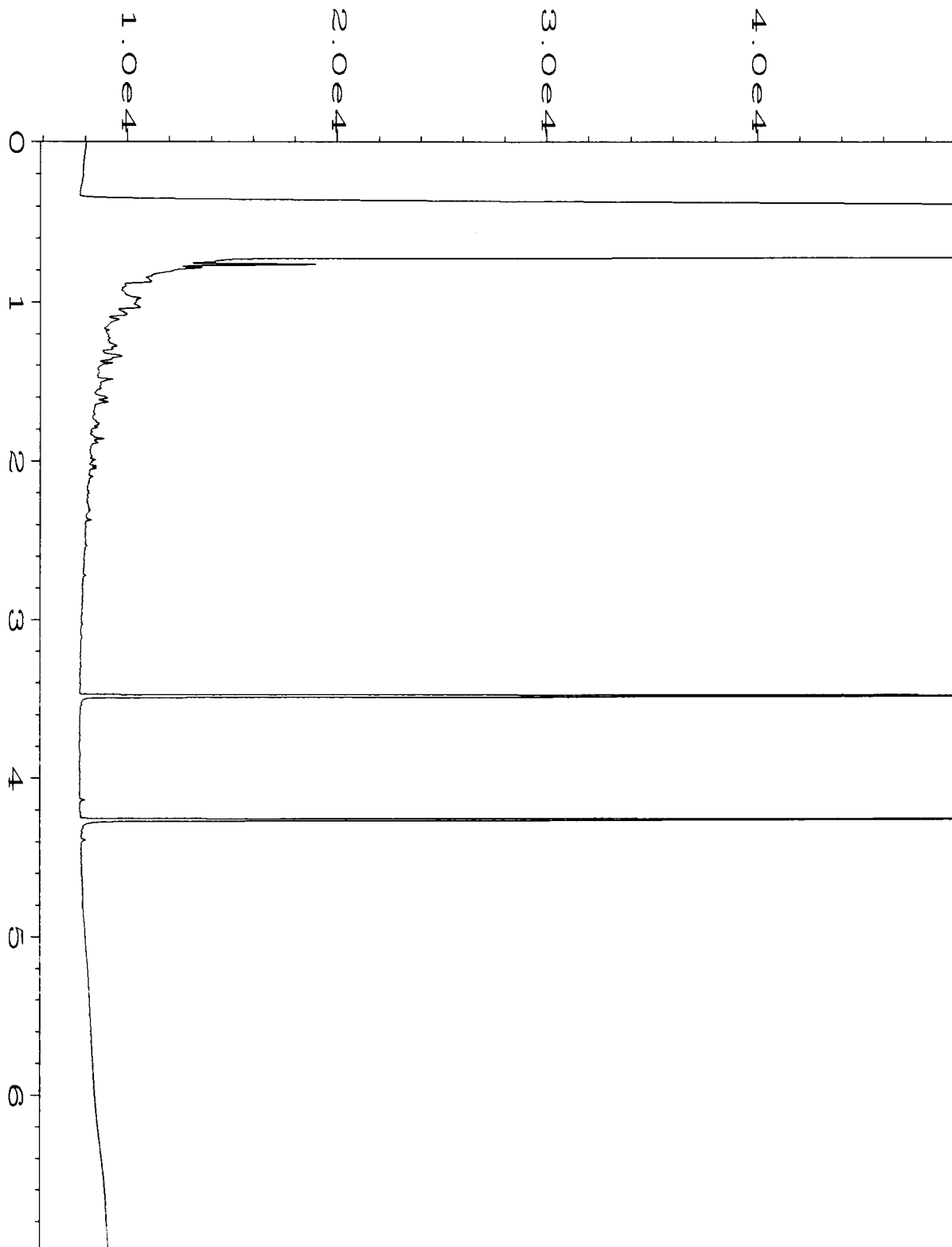
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



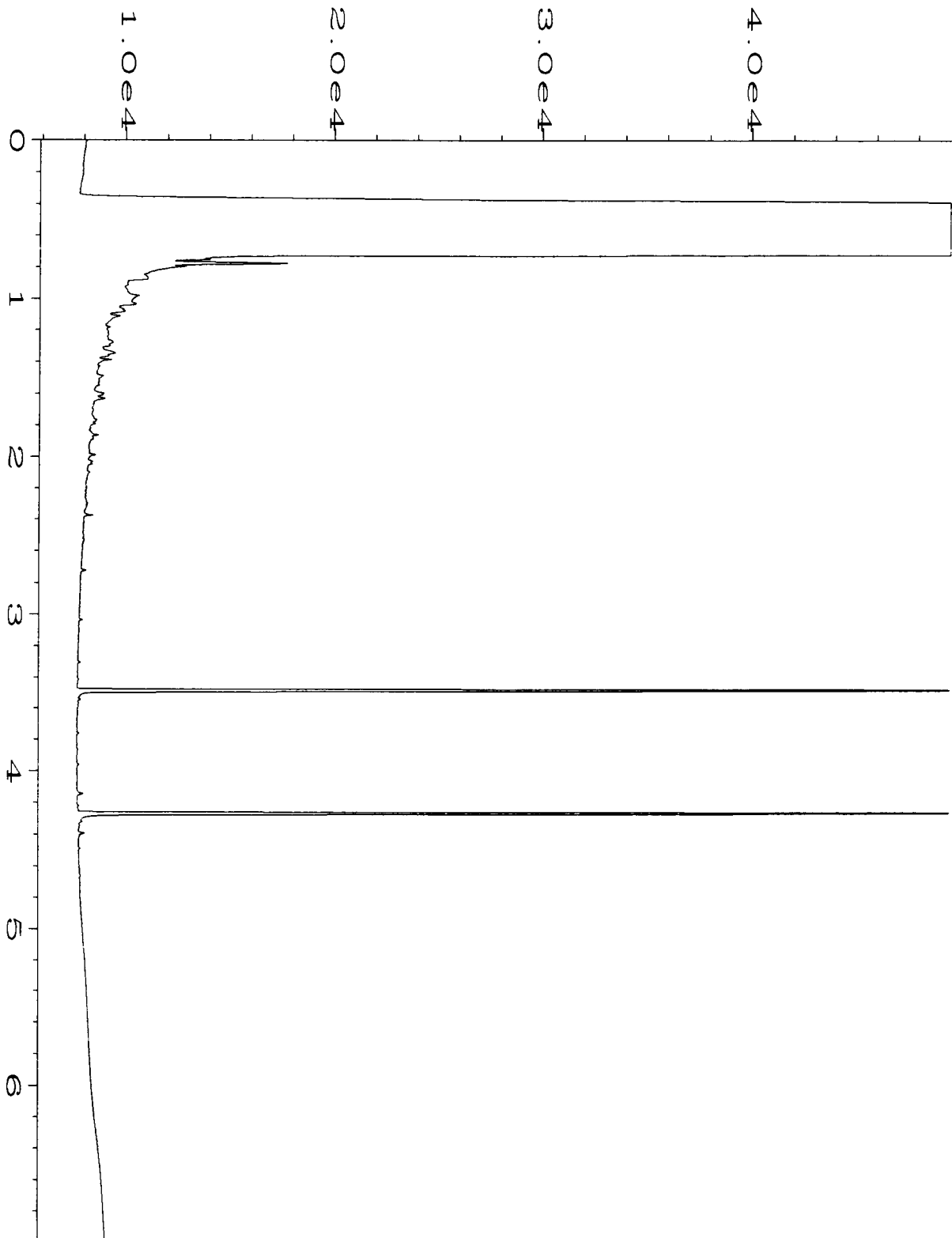
Data File Name	: C:\HPCHEM\6\DATA\02-22-16\019F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 19
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602354-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 22 Feb 16 11:47 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 12:15 PM		



Data File Name	: C:\HPCHEM\6\DATA\02-22-16\020F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 20
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602354-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 22 Feb 16 11:57 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 12:15 PM		

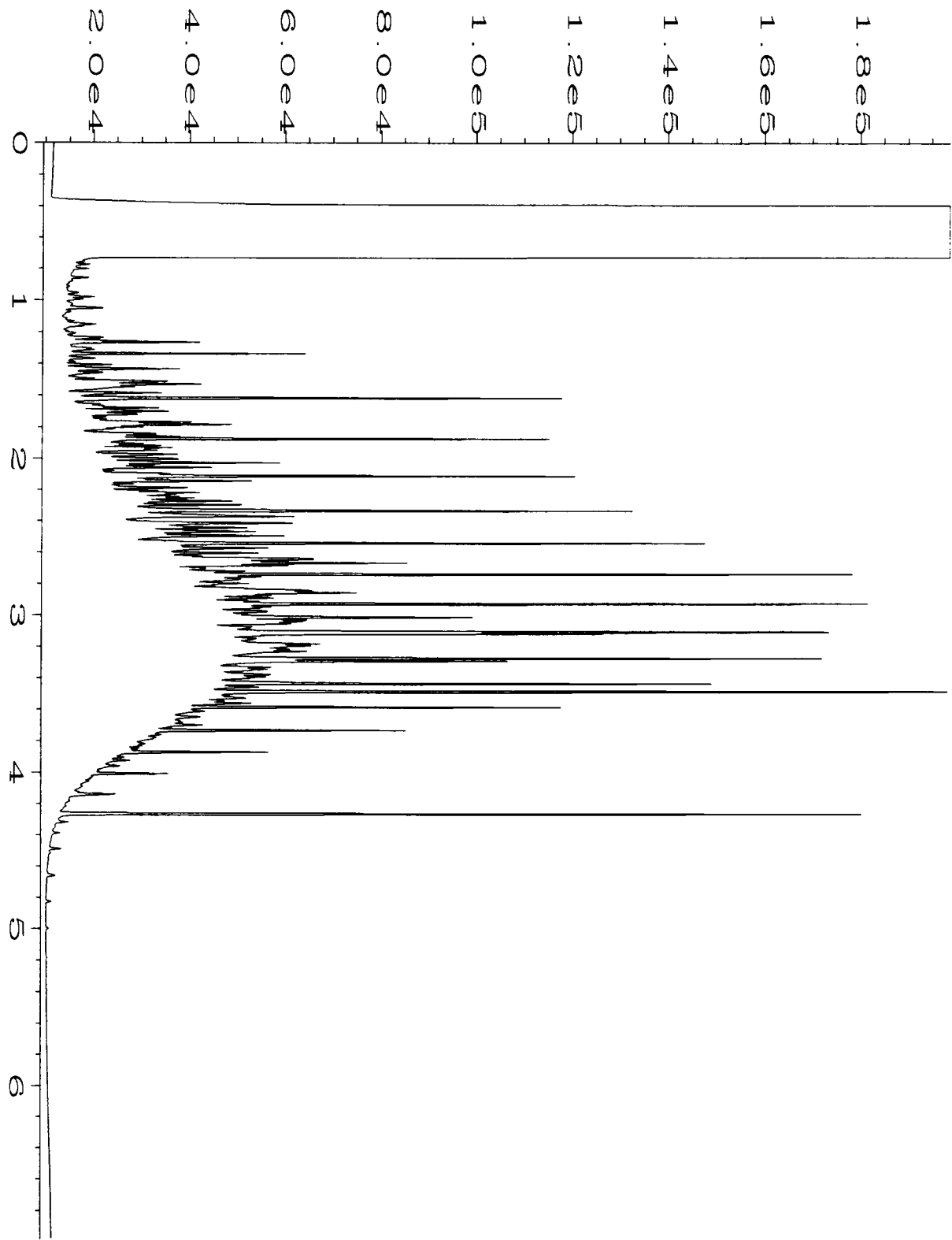


Data File Name	: C:\HPCHEM\6\DATA\02-22-16\021F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 21
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 602354-04	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 22 Feb 16 12:08 PM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 12:19 PM		



Data File Name	: C:\HPCHEM\6\DATA\02-22-16\015F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 15
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 06-343 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 22 Feb 16 11:03 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 12:15 PM		





Data File Name	: C:\HPCHEM\6\DATA\02-22-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 22 Feb 16 08:31 AM	Analysis Method	: DX.MTH
Report Created on:	22 Feb 16 12:15 PM		

602354

**SAMPLE CHAIN OF CUSTODY**

ME 02/22/16

Page # 1 of 1 vs/CO

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler  
 Company SoundEarth Strategies, Inc.  
 Address 2811 Fairview Avenue East, Suite 2000  
 City, State, ZIP Seattle, Washington 98102  
 Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) 	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS 1 low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method	GEMS Y / N

TURNAROUND TIME Standard (2 Weeks) <u>Sameday</u> <del>RUSH 24 hr FAT</del> Rush charges authorized by: <u>Chuck Cacek</u>
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED					Notes	
								NWTPH-DX	NWTPH-GX	BTEX by 8021B	CVOCs by 8260B			
TP101-10	TP101	10'	αA-α	2/19/16	1407	SOIL	5	X						* per CC 2/22/16 m.c.
TP101-05	TP101	5'	α3	2/19/16	1410	SOIL	5							
TP101-07	TP101	7'	α3	2/19/16	1419	SOIL	5	X						
TP101-16	TP101	16'	α1	2/19/16	1425	SOIL	5	X	*	*				
2/20/16														

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JONATHAN LOEFFLER	SOUNDEARTH	2/22/16	0805
Received by:	Khanh Phan	FBI	2/22/16	0805
Relinquished by:				
Received by:		Samples received at <u>4</u> °C		

***Friedman & Bruya, Inc. #603027***

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

March 4, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on March 2, 2016 from the SOU\_1002-003\_20160302, F&BI 603027 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0304R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 2, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160302, F&BI 603027 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
603027 -01	VE3-N3-16
603027 -02	VE4-N5-17

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/04/16

Date Received: 03/02/16

Project: SOU\_1002-003\_20160302, F&BI 603027

Date Extracted: 03/02/16

Date Analyzed: 03/02/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 56-165)
VE3-N3-16 603027-01	<50	<250	98
VE4-N5-17 603027-02	<50	<250	97
Method Blank 06-409 MB2	<50	<250	113

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/04/16

Date Received: 03/02/16

Project: SOU\_ 1002-003\_ 20160302, F&BI 603027

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 603022-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	111	101	63-146	9

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	79-144

# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

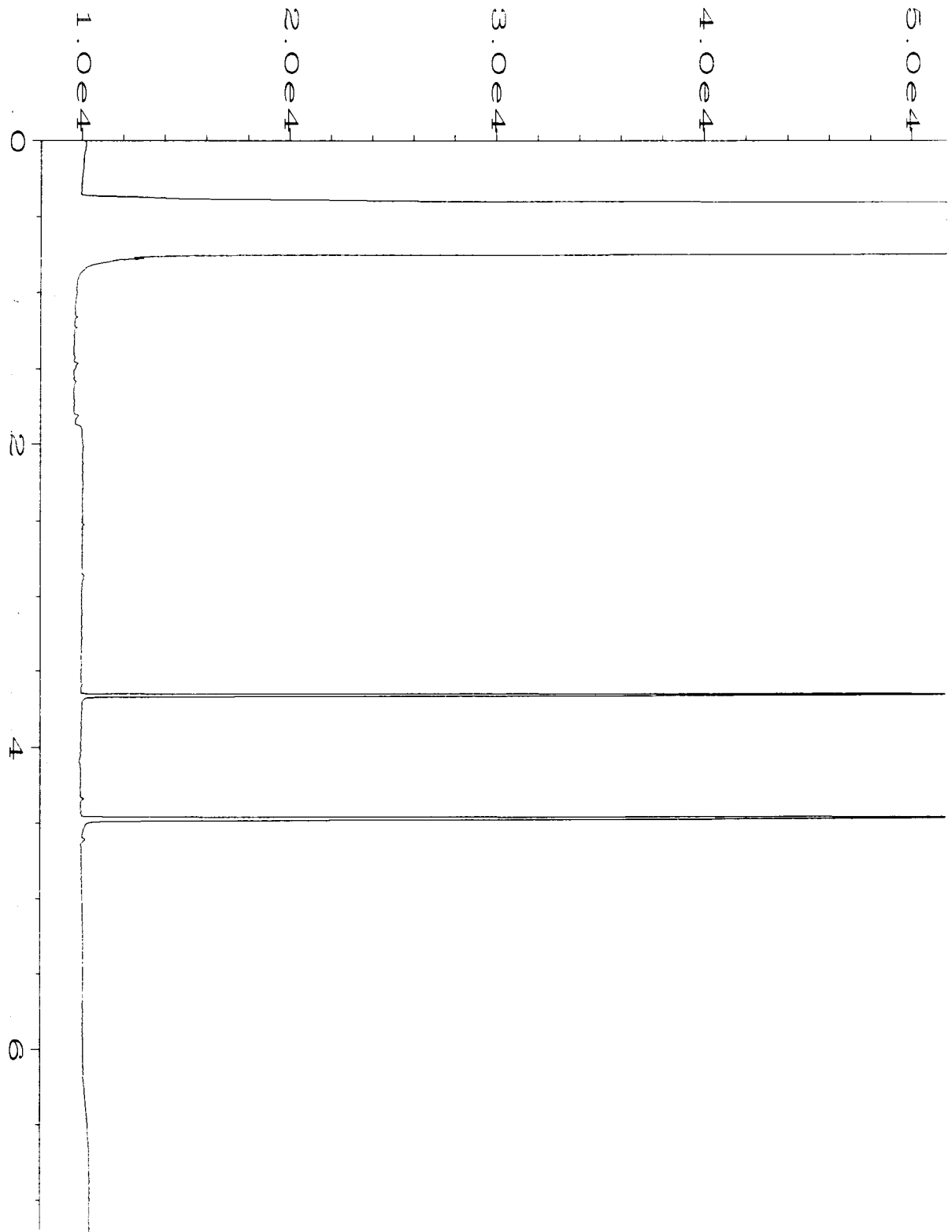
vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Inst: GC1  
Sample No:  
Run Time:  
Acquired:  
Report: C

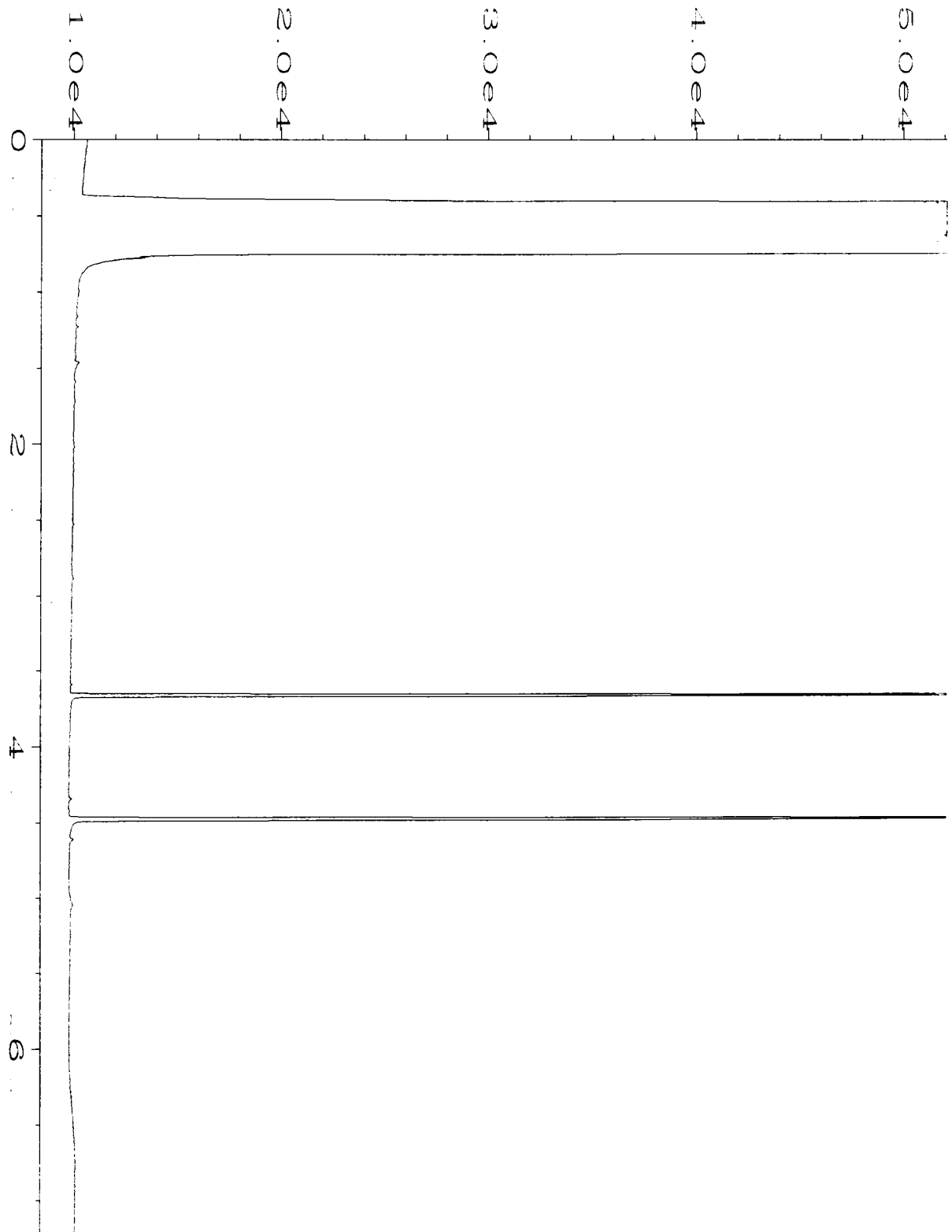
Page: 1



Data File Name : C:\HPCHEM\1\DATA\03-02-16\016F0301.D  
Operator : mwdl  
Instrument : GC1  
Sample Name : 603027-01  
Run Time Bar Code:  
Acquired on : 02 Mar 16 01:48 PM  
Report Created on: 03 Mar 16 09:15 AM  
Page Number : 1  
Vial Number : 16  
Injection Number : 1  
Sequence Line : 3  
Instrument Method: DX.MTH  
Analysis Method : DX.MTH

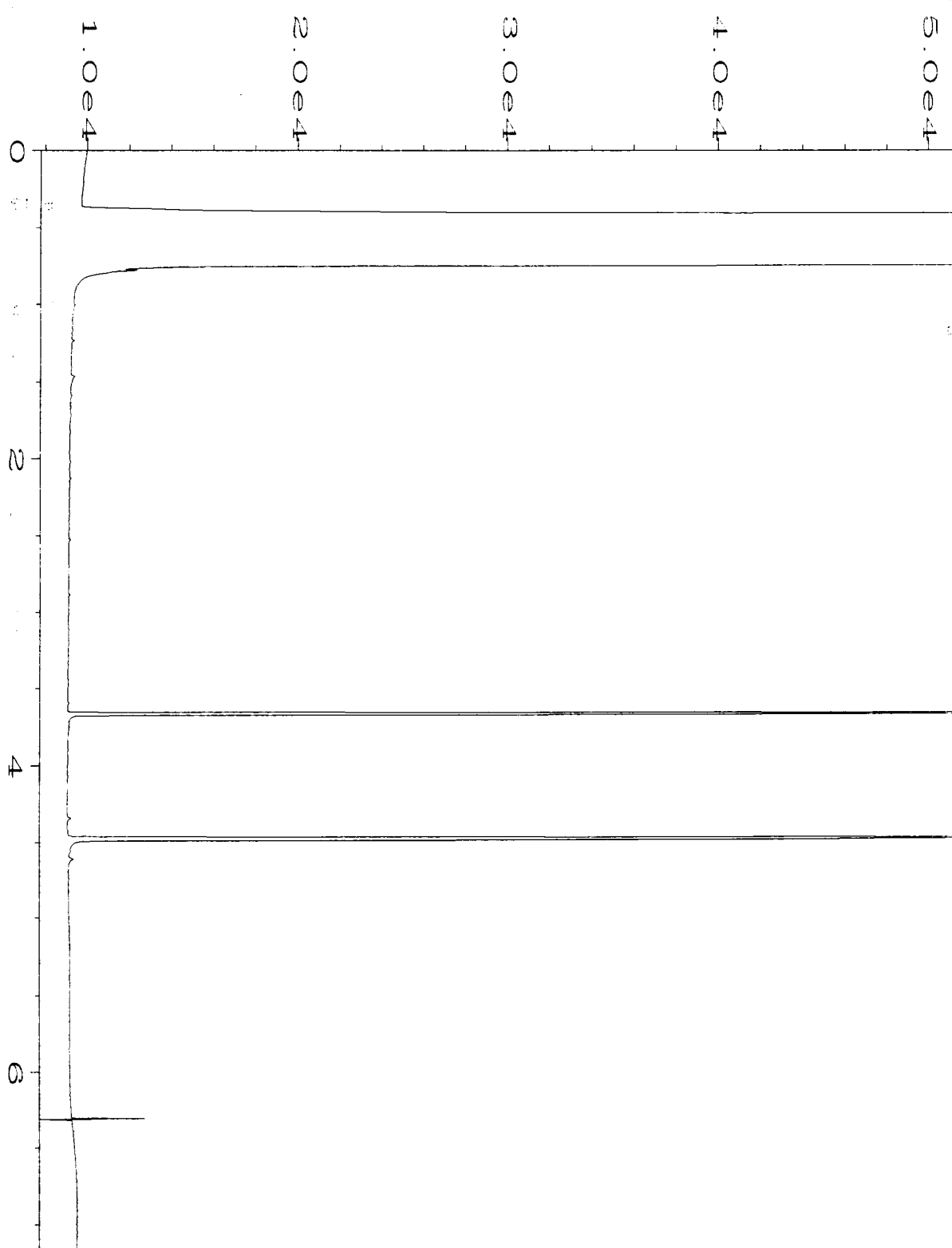
Data File  
Operator  
Instrument  
Sample Name  
Run Time Bar Code  
Acquired on  
Report Created on

Page Number  
Vial Number  
Injection Number  
Sequence Line  
Instrument Method  
Analysis Method



Data File Name	: C:\HPCHEM\1\DATA\03-02-16\017F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 17
Instrument	: GC1	Injection Number	: 1
Sample Name	: 603027-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 02 Mar 16 01:59 PM	Analysis Method	: DX.MTH
Report Created on:	03 Mar 16 09:15 AM		

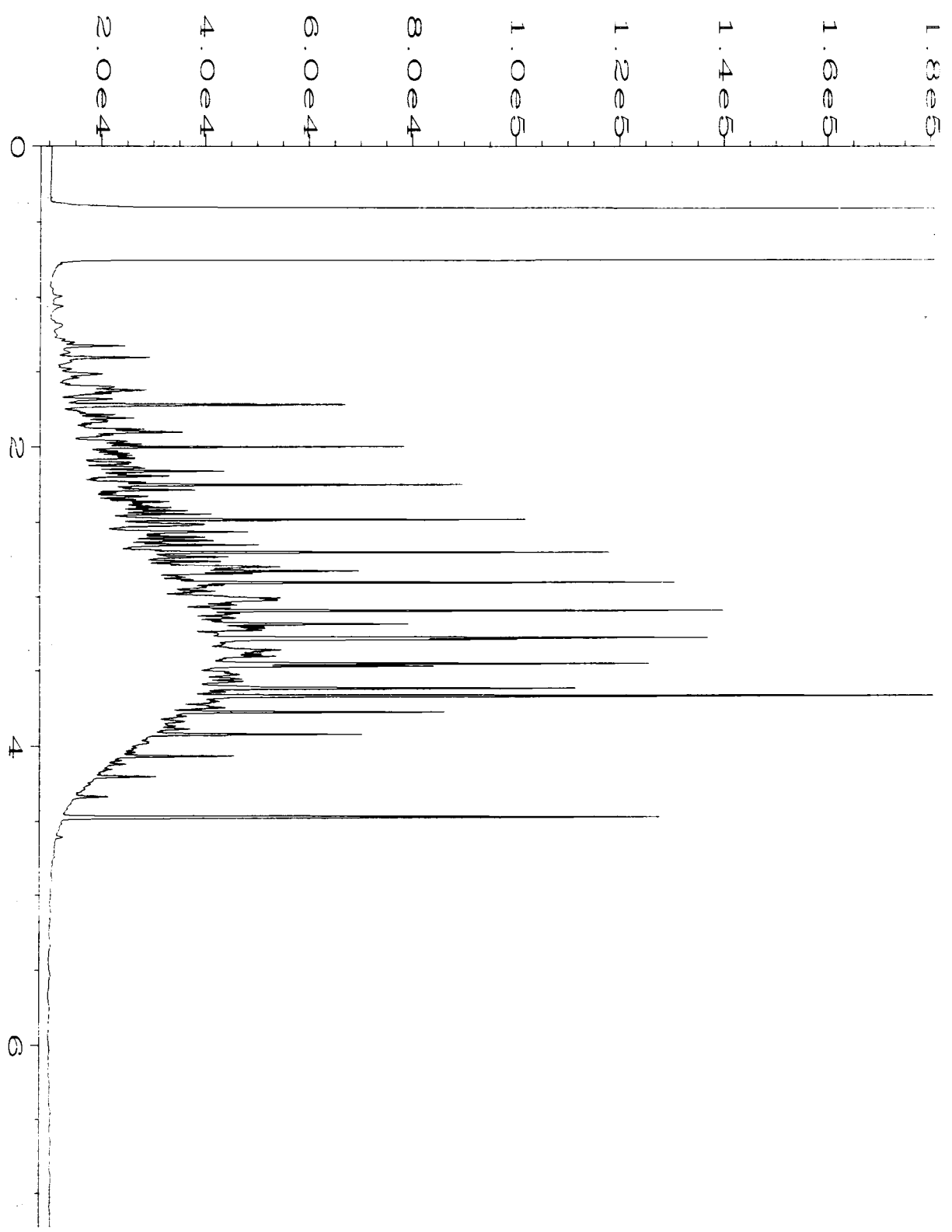
Report C  
Data File  
Operator  
Instrument  
Sample N  
Run Time  
Acquired  
Report C



Data File Name	: C:\HPCHEM\1\DATA\03-02-16\015F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 15
Instrument	: GC1	Injection Number	: 1
Sample Name	: 06-409 mb2	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 02 Mar 16 01:37 PM	Analysis Method	: DX.MTH
Report Created on:	03 Mar 16 09:15 AM		

Date: 03  
Operator: mwdl  
Instrument: GC1  
Sample Name: 500 Dx 45-182D  
Run Time Bar Code:  
Acquired on: 02 Mar 16 07:27 AM  
Report Created on: 03 Mar 16 09:15 AM

Date: 03  
Operator: mwdl  
Instrument: GC1  
Sample Name: 500 Dx 45-182D  
Run Time Bar Code:  
Acquired on: 02 Mar 16 07:27 AM  
Report Created on: 03 Mar 16 09:15 AM



Data File Name	: C:\HPCHEM\1\DATA\03-02-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 02 Mar 16 07:27 AM	Analysis Method	: DX.MTH
Report Created on:	03 Mar 16 09:15 AM		

603027

SAMPLE CHAIN OF CUSTODY

ME 03/02/16

Page # 1 of 1 US/DOJ

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler
Company SoundEarth Strategies, Inc.
Address 2811 Fairview Avenue East, Suite 2000
City, State, ZIP Seattle, Washington 98102
Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) Jonathan Loeffler
PROJECT NAME/NO. MADISON TACO TIME 1002-003
REMARKS low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method

TURNAROUND TIME
Standard (2 Weeks)
RUSH 24 hr TAT
Rush charges authorized by: Chuck Cacek
SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

Table with columns: Sample ID, Sample Location, Sample Depth, Lab ID, Date Sampled, Time Sampled, Matrix, # of Jars, NWTPH-DX, NWTPH-Gx, BTEX by 8021B, CVOCs by 8260B, Notes. Includes handwritten entries for VE3-N3-16 and VE4-N5-17, and a large diagonal signature across the bottom half.

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Table with columns: SIGNATURE, PRINT NAME, COMPANY, DATE, TIME. Includes entries for Jonathan Loeffler and Nhan Phan, and a note 'Samples received at 4 °C'.

***Friedman & Bruya, Inc. #603105***

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

March 8, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on March 7, 2016 from the SOU\_1002-003\_20160307, F&BI 603105 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0308R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 7, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160307, F&BI 603105 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
603105 -01	UST02-WSW03-18
603105 -02	UST03-BTM03-21
603105 -03	UST02-WSW04-18
603105 -04	UST02-WSW05-18
603105 -05	UST02-WSW06-23
603105 -06	UST02-SSW02-23
603105 -07	UST02-BTM02-23
603105 -08	UST02-ESW02-23

All quality control requirements were acceptable.



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/16  
Date Received: 03/07/16  
Project: SOU\_1002-003\_20160307, F&BI 603105  
Date Extracted: 03/07/16  
Date Analyzed: 03/07/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> (% Recovery) (Limit 56-165)
UST02-WSW03-18 603105-01	<50	<250	105
UST03-BTM03-21 603105-02	<50	<250	99
UST02-WSW04-18 603105-03	<50	<250	98
UST02-WSW05-18 603105-04	<50	<250	99
UST02-SSW02-23 603105-06	<50	<250	99
UST02-BTM02-23 603105-07	<50	<250	88
Method Blank 06-437 MB	<50	<250	98

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/08/16

Date Received: 03/07/16

Project: SOU\_1002-003\_20160307, F&BI 603105

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 603105-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	112	103	63-146	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	102	79-144

# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

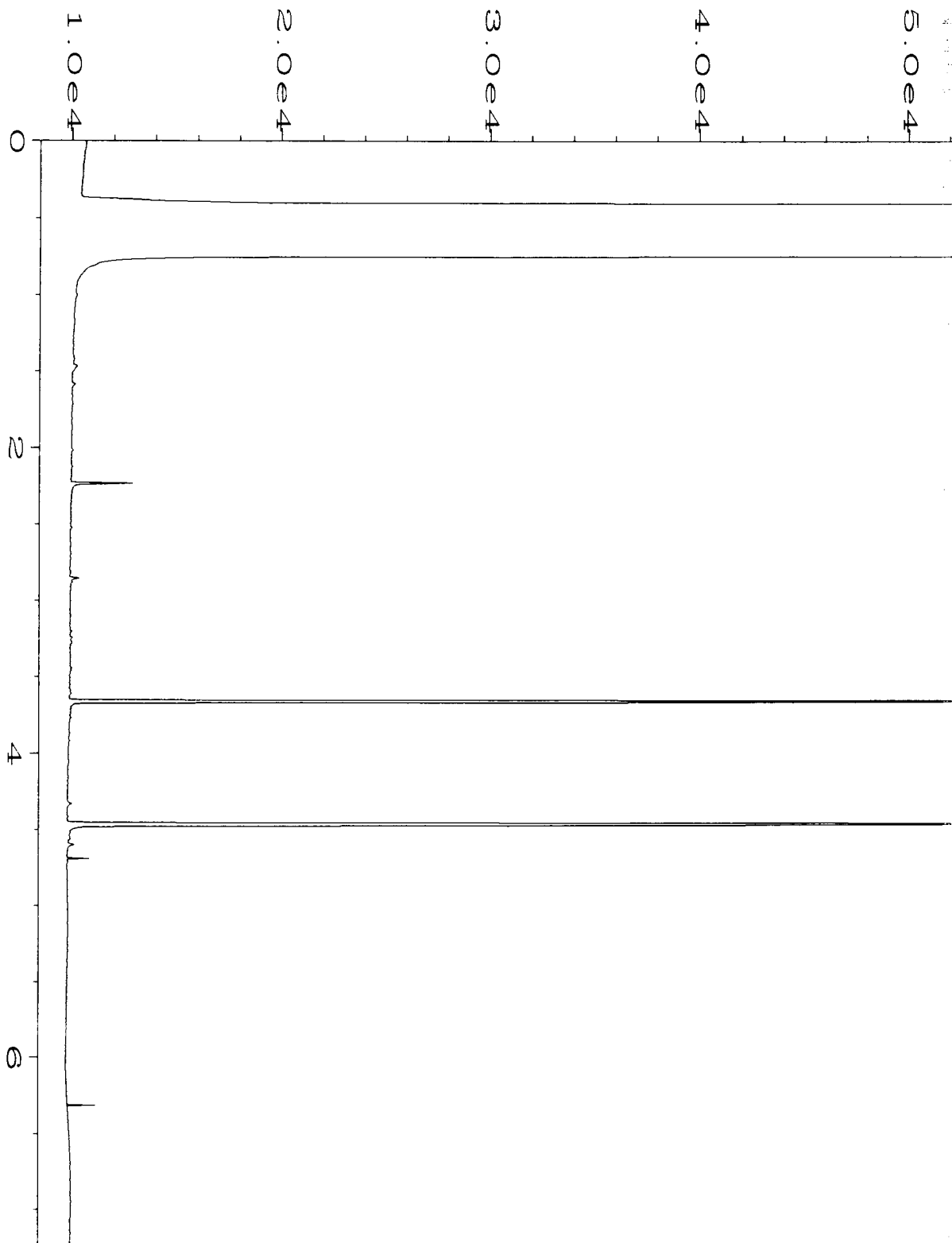
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

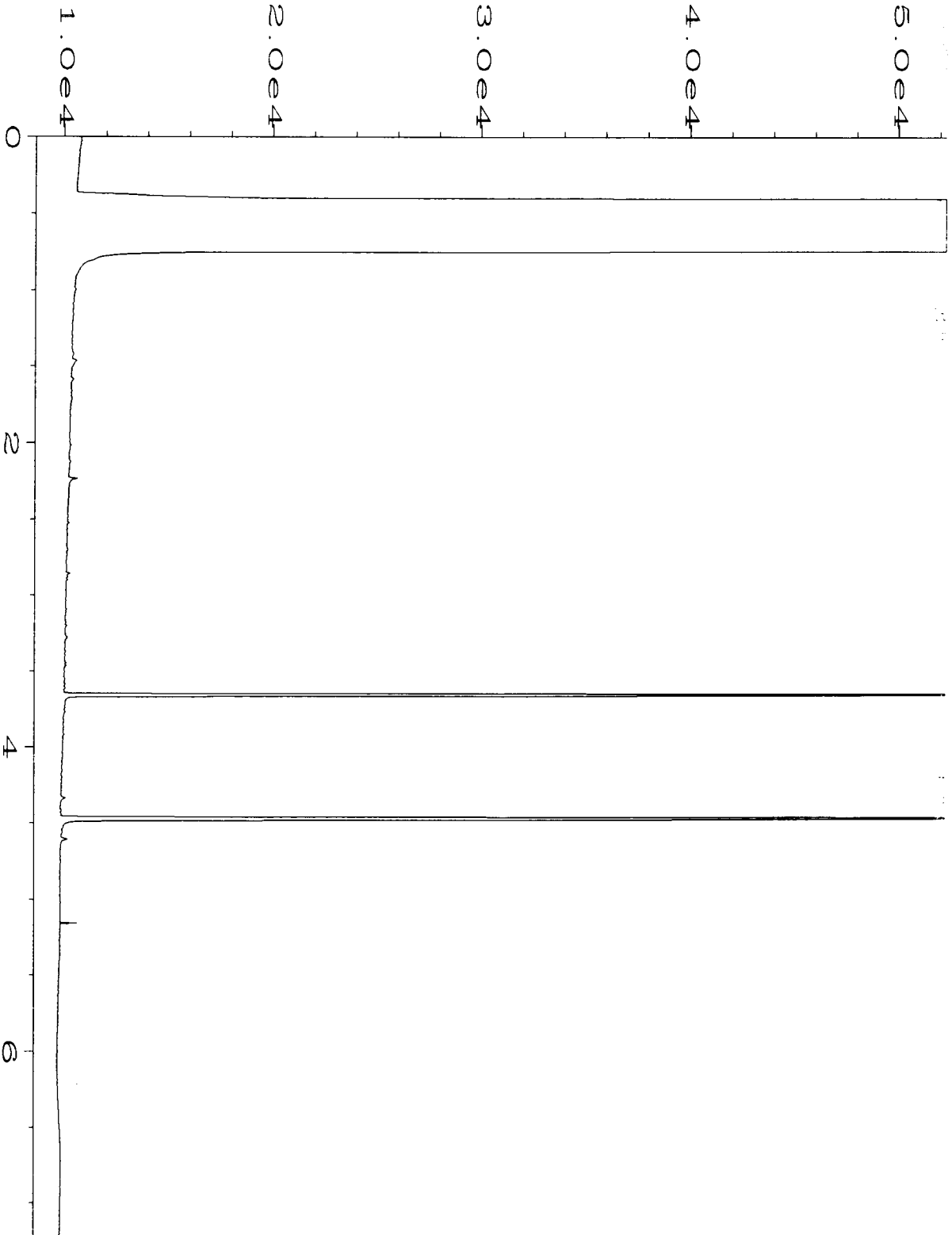


Data File Name	: C:\HPCHEM\1\DATA\03-07-16\010F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 10
Instrument	: GC1	Injection Number	: 1
Sample Name	: 603105-01	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 07 Mar 16 12:35 PM	Analysis Method	: DX.MTH
Report Created on:	07 Mar 16 01:48 PM		

Date: 11/11  
Operator:  
Instrument:  
Sample Name:  
Run Time:  
Acquired:  
Revised:

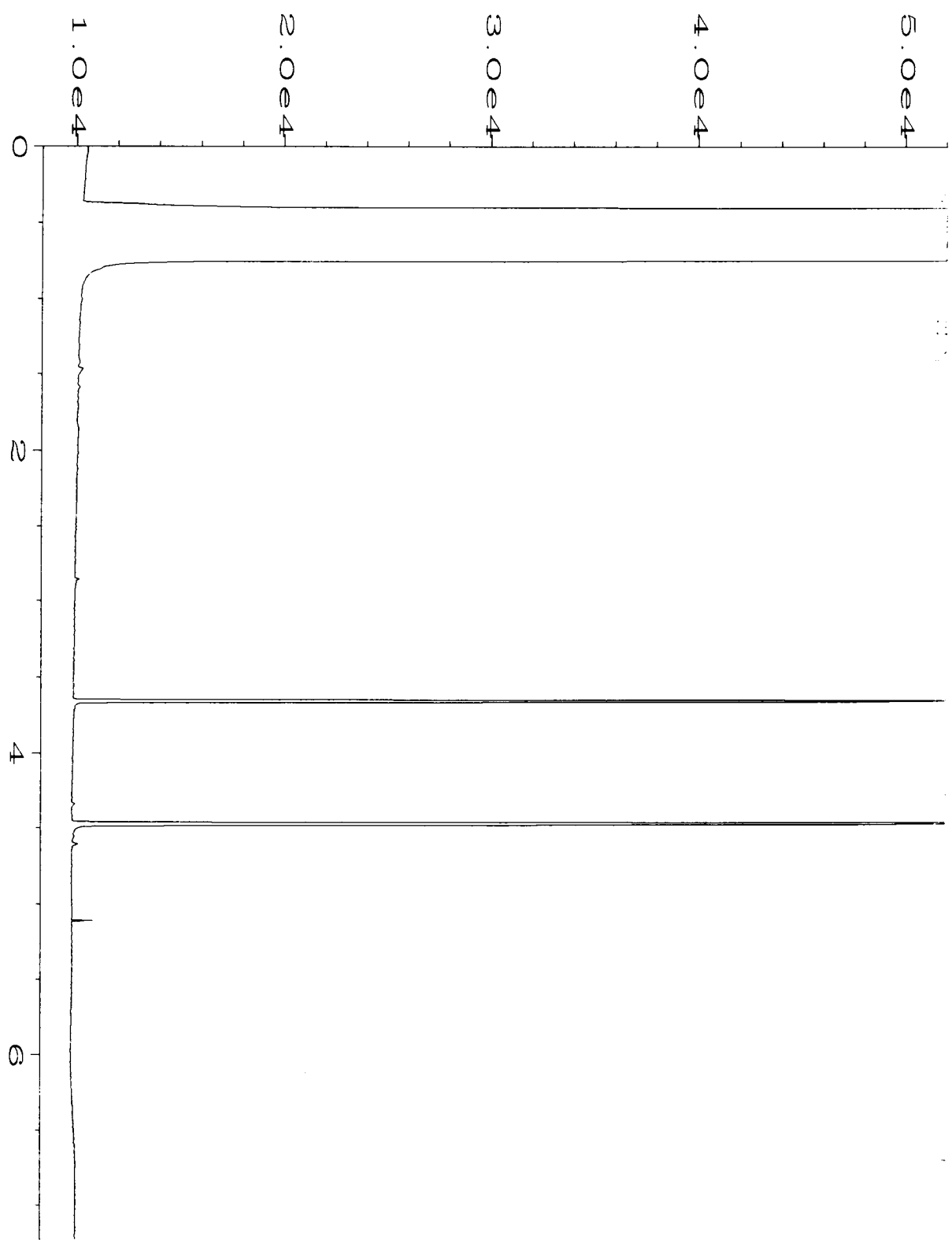
Date: 11/11  
Operator:  
Instrument:  
Sample Name:  
Run Time:  
Acquired:  
Revised:

Date: 11/11  
Operator:  
Instrument:  
Sample Name:  
Run Time:  
Acquired:



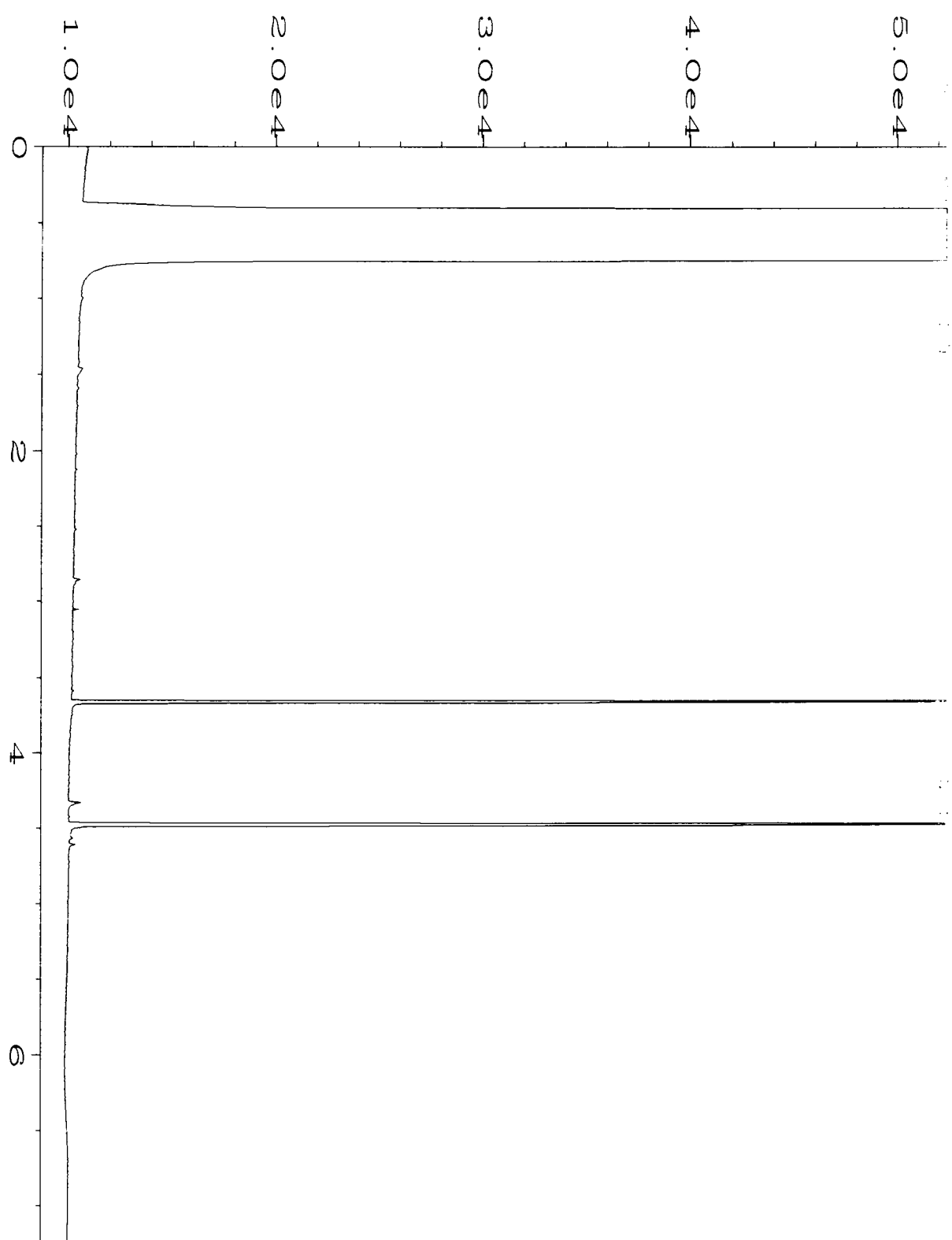
Data File Name	: C:\HPCHEM\1\DATA\03-07-16\011F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 11
Instrument	: GC1	Injection Number	: 1
Sample Name	: 603105-02	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 07 Mar 16 12:46 PM	Analysis Method	: DX.MTH
Report Created on:	07 Mar 16 01:48 PM		

03-07-16 12:57 PM  
Data File Name : C:\HPCHEM\1\DATA\03-07-16\012F0201.D  
Operator : mwdl  
Instrument : GC1  
Sample Name : 603105-03  
Run Time Bar Code :  
Acquired on : 07 Mar 16 12:57 PM  
Report Created on: 07 Mar 16 01:48 PM



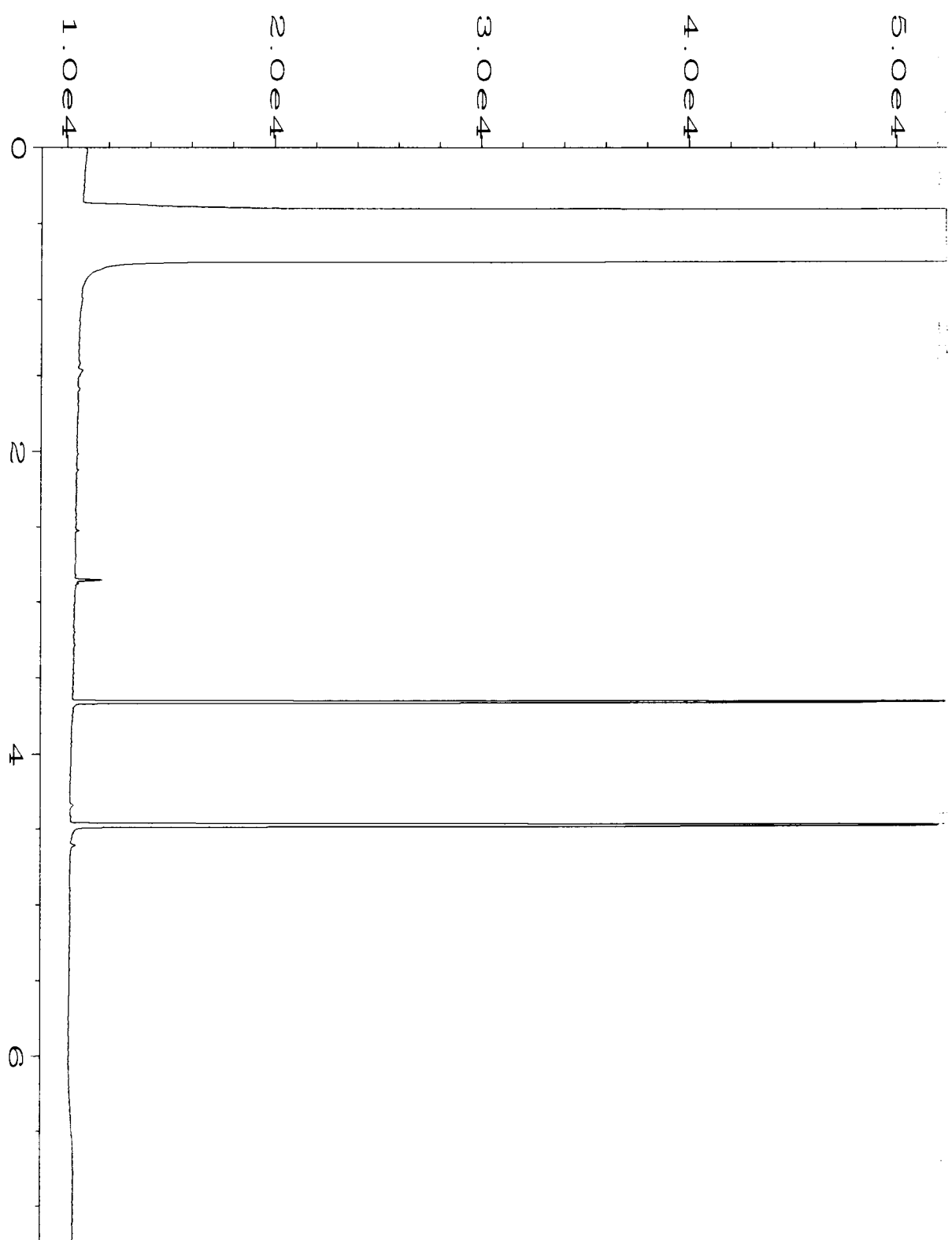
Data File Name	: C:\HPCHEM\1\DATA\03-07-16\012F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 12
Instrument	: GC1	Injection Number	: 1
Sample Name	: 603105-03	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 07 Mar 16 12:57 PM	Analysis Method	: DX.MTH
Report Created on:	07 Mar 16 01:48 PM		

Report  
 Date  
 Operator  
 Instrument  
 Sample Name  
 Run Time  
 Acquired on  
 Report Created on  
 Data File Name  
 Operator  
 Instrument  
 Sample Name  
 Run Time  
 Acquired on  
 Report Created on  
 Data File Name  
 Operator  
 Instrument  
 Sample Name  
 Run Time  
 Acquired on  
 Report Created on



Data File Name	: C:\HPCHEM\1\DATA\03-07-16\013F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 13
Instrument	: GC1	Injection Number	: 1
Sample Name	: 603105-04	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 07 Mar 16 01:09 PM	Analysis Method	: DX.MTH
Report Created on:	07 Mar 16 01:48 PM		

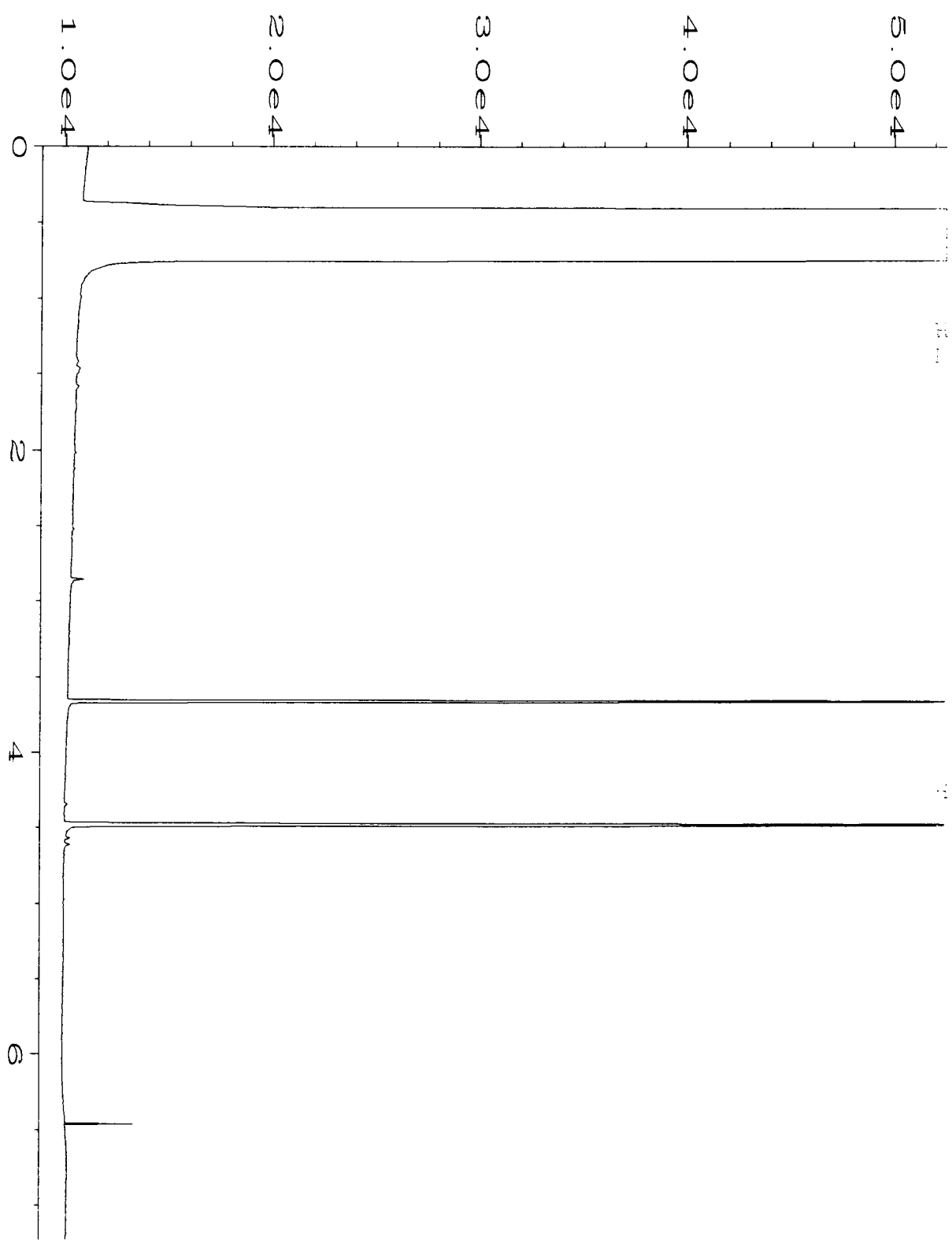
Report  
Data File  
Operator  
Instrument  
Sample Name  
Run Time Bar Code  
Acquired on  
Report Created on



Data File Name	: C:\HPCHEM\1\DATA\03-07-16\014F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 14
Instrument	: GC1	Injection Number	: 1
Sample Name	: 603105-06	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 07 Mar 16 01:20 PM	Analysis Method	: DX.MTH
Report Created on:	07 Mar 16 01:48 PM		

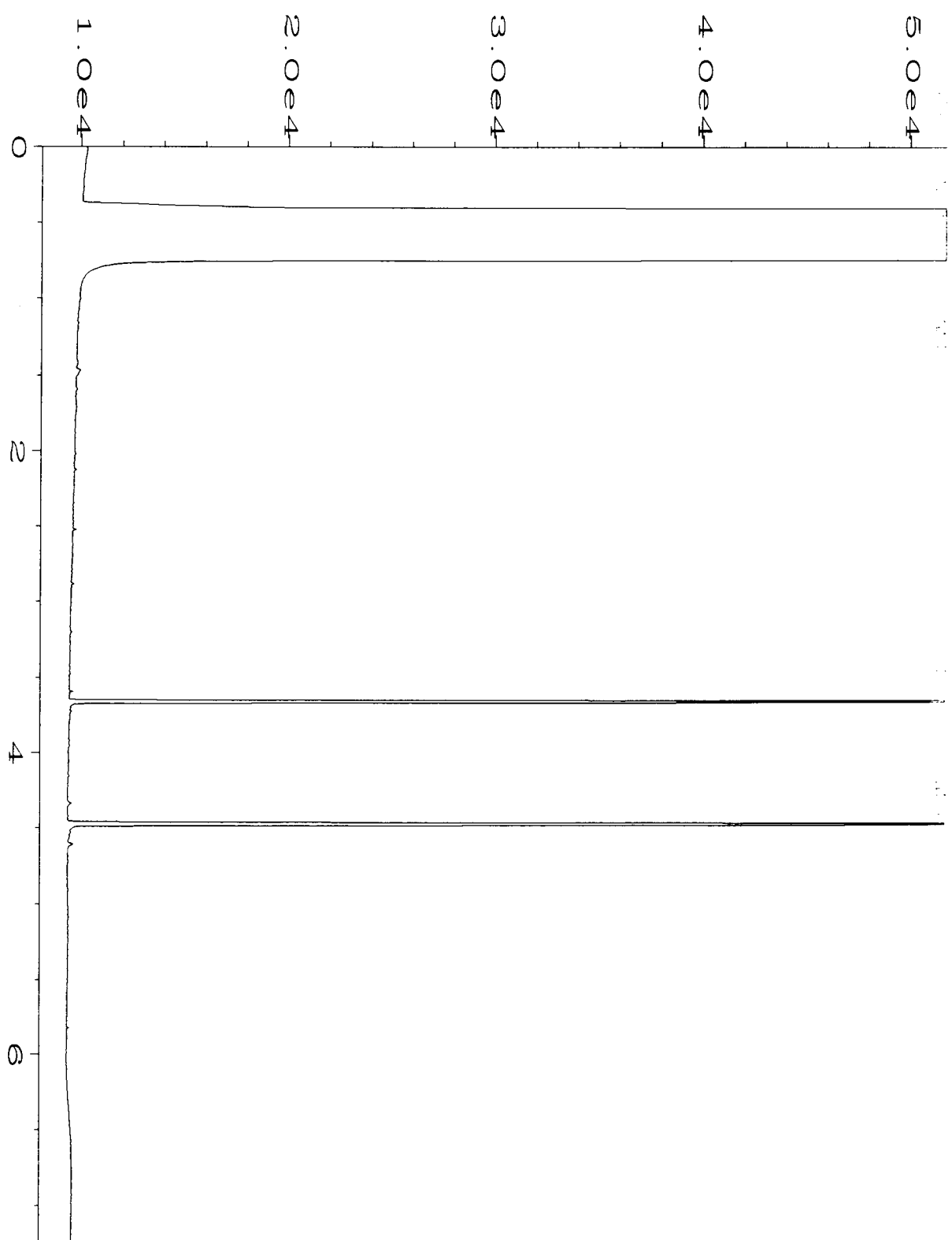


Report C  
Data File  
Operator  
Instrument  
Sample Name  
Run Time  
Acquired  
Report



Data File Name : C:\HPCHEM\1\DATA\03-07-16\015F0201.D  
Operator : mwdl  
Instrument : GC1  
Sample Name : 603105-07  
Run Time Bar Code:  
Acquired on : 07 Mar 16 01:31 PM  
Report Created on: 07 Mar 16 01:48 PM  
Page Number : 1  
Vial Number : 15  
Injection Number : 1  
Sequence Line : 2  
Instrument Method: DX.MTH  
Analysis Method : DX.MTH

Report  
Data 11  
Operator  
Instrument  
Sample N  
Run Time  
Acquired  
Report

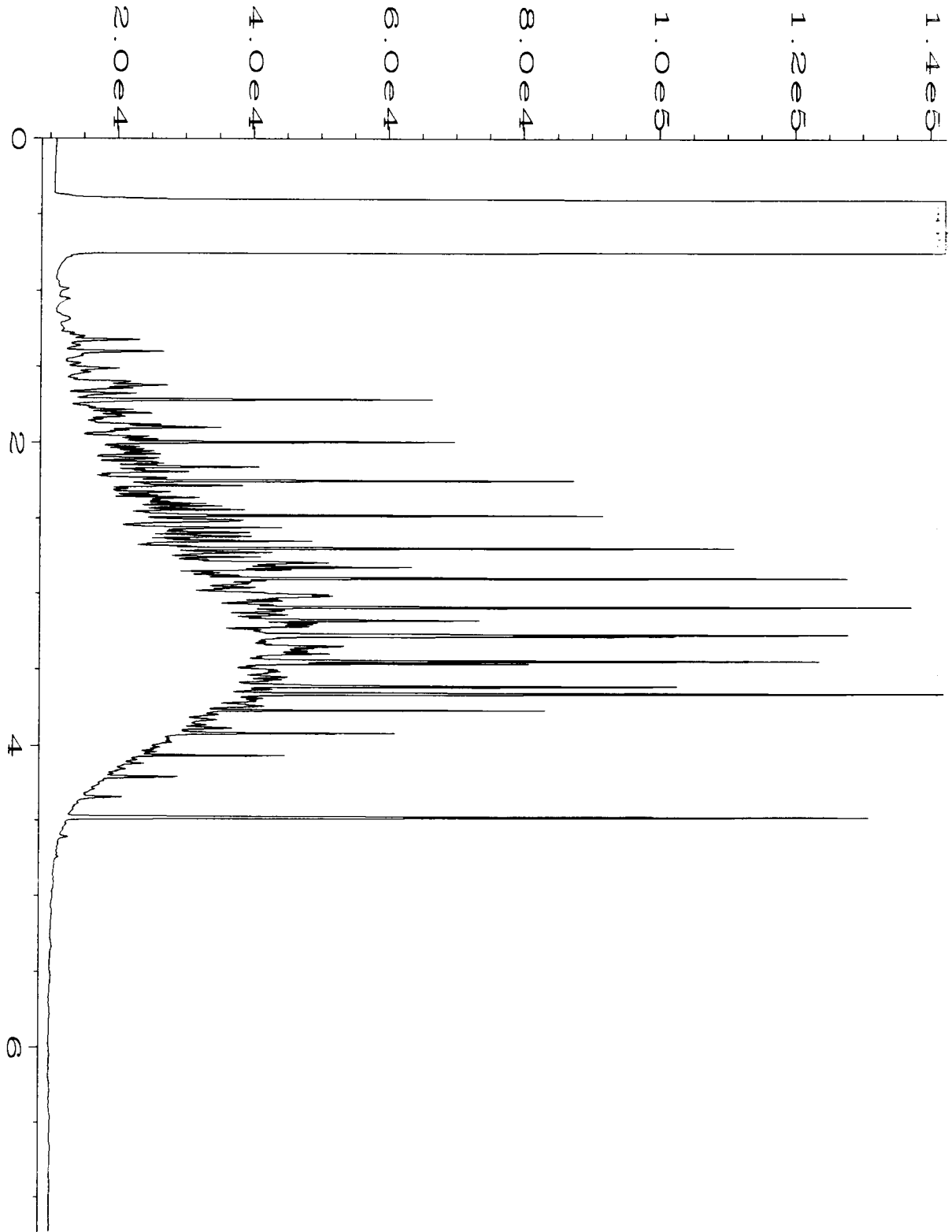


Data 11  
Operator  
Instrument  
Sample N  
Run Time  
Acquired  
Report

Data 11  
Operator  
Instrument  
Sample N  
Run Time  
Acquired  
Report

Data File Name	: C:\HPCHEM\1\DATA\03-07-16\006F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 6
Instrument	: GC1	Injection Number	: 1
Sample Name	: 06-437 mb	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 07 Mar 16 11:51 AM	Analysis Method	: DX.MTH
Report Created on:	07 Mar 16 01:48 PM		

Run Time : 07 Mar 16 11:21 AM  
 Data File : C:\HPCHEM\1\DATA\03-04-16\093F1301.D  
 Operator : mwdl  
 Instrument : GC1  
 Sample Name : 500 Dx 45-182D  
 Run Time Bar Code :  
 Acquired on : 07 Mar 16 11:21 AM  
 Report Created on : 07 Mar 16 01:48 PM



Data File Name	: C:\HPCHEM\1\DATA\03-04-16\093F1301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 93
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 13
Run Time Bar Code:		Instrument Method:	: DX.MTH
Acquired on	: 07 Mar 16 11:21 AM	Analysis Method	: DX.MTH
Report Created on:	: 07 Mar 16 01:48 PM		

MP  
~~603105~~ 603105

**SAMPLE CHAIN OF CUSTODY**

ME 03/07/16 Page # 1 of 1 DOZ

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler  
 Company SoundEarth Strategies, Inc.  
 Address 2811 Fairview Avenue East, Suite 2000  
 City, State, ZIP Seattle, Washington 98102  
 Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) 	
PROJECT NAME/NO.  MADISON TACO TIME 1002-003	PO #
REMARKS  low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method	GEMS Y / N

TURNAROUND TIME  Standard (2 Weeks) <del>Standard</del> RUSH 24w TAT Rush charges authorized by: Chuck Cacek
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED							
								NWTPH-DX	NWTPH-GX	BTEX by 8021B	CVOCs by 8260B	HOLD	Notes		
USTO2-WSW03-18	USTO2 WSW	18'	01	3/4/16	0910	SOIL	1	X							
USTO3-BTM03-21	USTO3 BTM	21'	02		0915		1	X							
USTO2-WSW04-18	USTO2 WSW	18'	03		0940		1	X							
USTO2-WSW05-18	USTO2 WSW	18'	04		0952		1	X							
USTO2-WSW06-23	USTO2 WSW	23'	05		1010		1					X			
USTO2-SSW02-23	USTO2 SSW	23'	06		1015		1	X							
USTO2-BTM02-23	USTO2 BTM	23'	07		1018		1	X							
USTO2-ESW02-23	USTO2 ESW	23'	08		1022		1						X		
3/4/16															

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JONATHAN LOEFFLER	SOUNDEARTH	3/7/16	0928
Received by:	Michael Exchul	Fibre	↓	↓
Relinquished by:				
Received by:		Samples received at	2	C

***Friedman & Bruya, Inc. #603160***

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

March 11, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on March 9, 2016 from the SOU\_1002-003\_ 20160309, F&BI 603160 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Chuck Cacek, Jonathan Loeffler  
SOU0311R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 9, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160309, F&BI 603160 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
603160 -01	VE43-N2-24
603160 -02	VE40-N2-22

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/11/16

Date Received: 03/09/16

Project: SOU\_1002-003\_20160309, F&BI 603160

Date Extracted: 03/09/16

Date Analyzed: 03/09/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE,  
XYLENES AND TPH AS GASOLINE  
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
VE43-N2-24 603160-01	<0.02	<0.02	<0.02	<0.06	<2	85
VE40-N2-22 603160-02	<0.02	<0.02	<0.02	<0.06	<2	91
Method Blank 06-427 MB	<0.02	<0.02	<0.02	<0.06	<2	90



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/11/16

Date Received: 03/09/16

Project: SOU\_1002-003\_20160309, F&BI 603160

Date Extracted: 03/09/16

Date Analyzed: 03/09/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
VE43-N2-24 603160-01	<50	<250	90
VE40-N2-22 603160-02	<50	<250	89
Method Blank 06-468 MB	<50	<250	89

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/11/16

Date Received: 03/09/16

Project: SOU\_ 1002-003\_ 20160309, F&BI 603160

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE,  
XYLENES, AND TPH AS GASOLINE  
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 603144-03 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	80	69-120
Toluene	mg/kg (ppm)	0.5	87	70-117
Ethylbenzene	mg/kg (ppm)	0.5	86	65-123
Xylenes	mg/kg (ppm)	1.5	85	66-120
Gasoline	mg/kg (ppm)	20	100	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/11/16

Date Received: 03/09/16

Project: SOU\_ 1002-003\_ 20160309, F&BI 603160

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 603151-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	110	111	73-135	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	116	74-139

# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

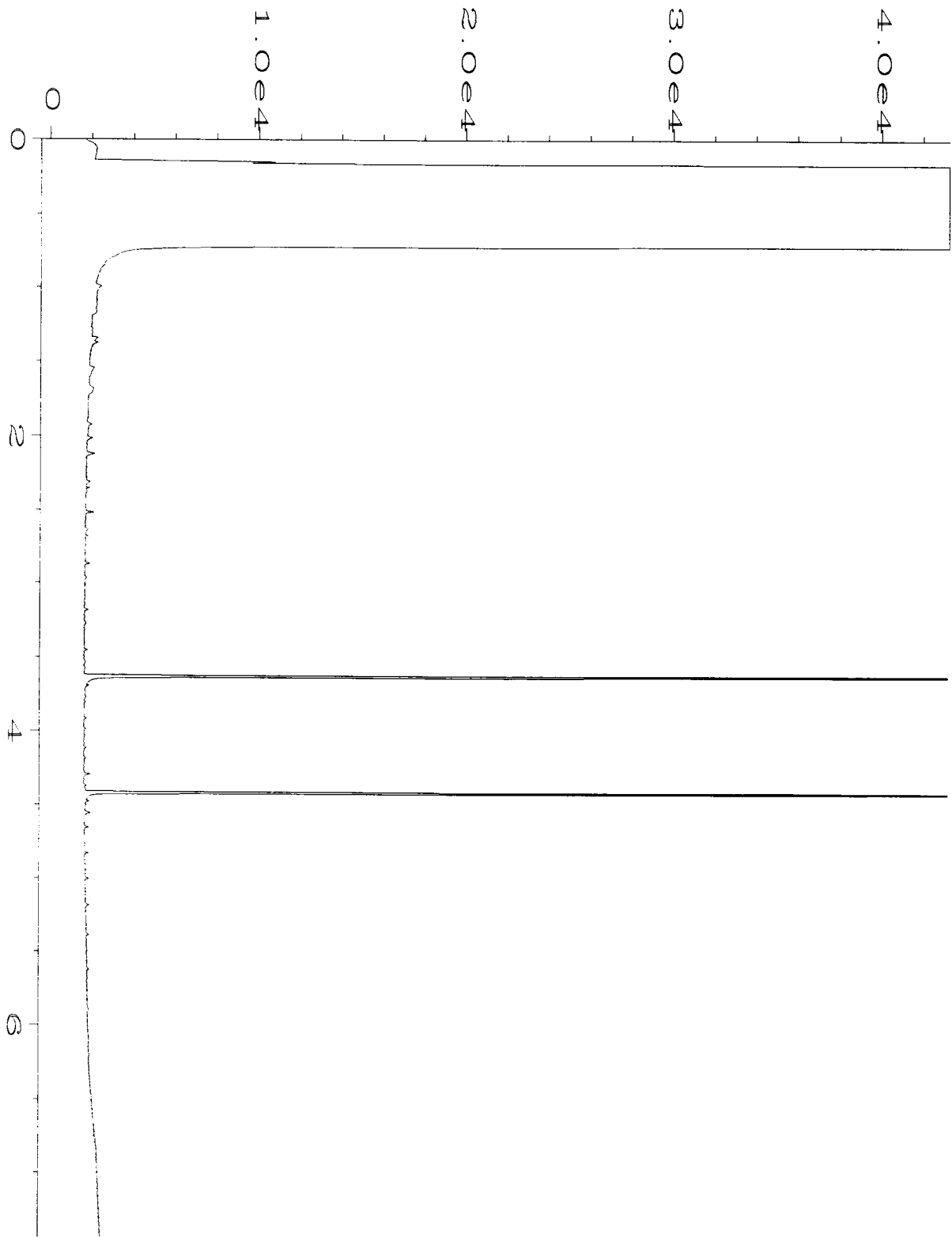
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

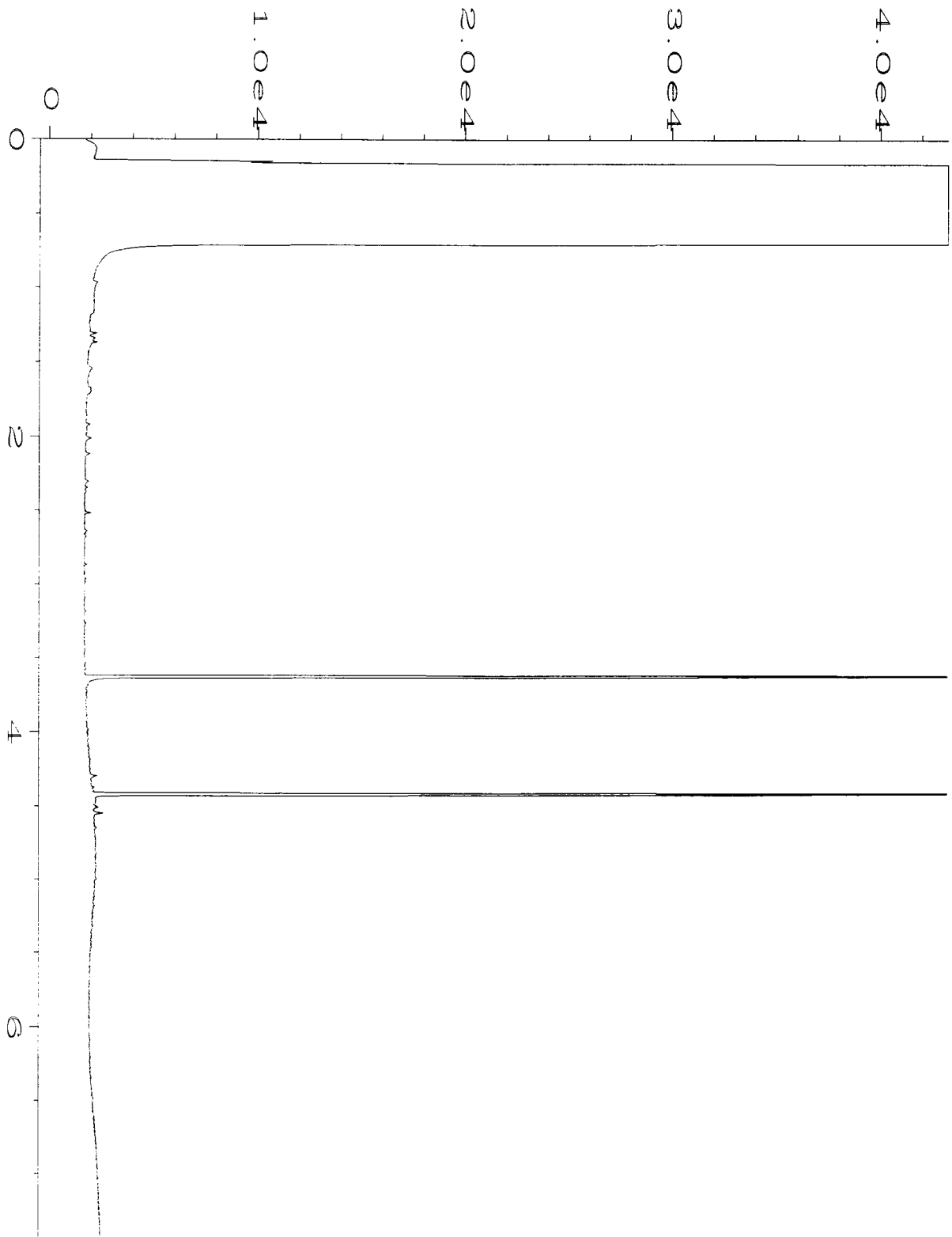
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

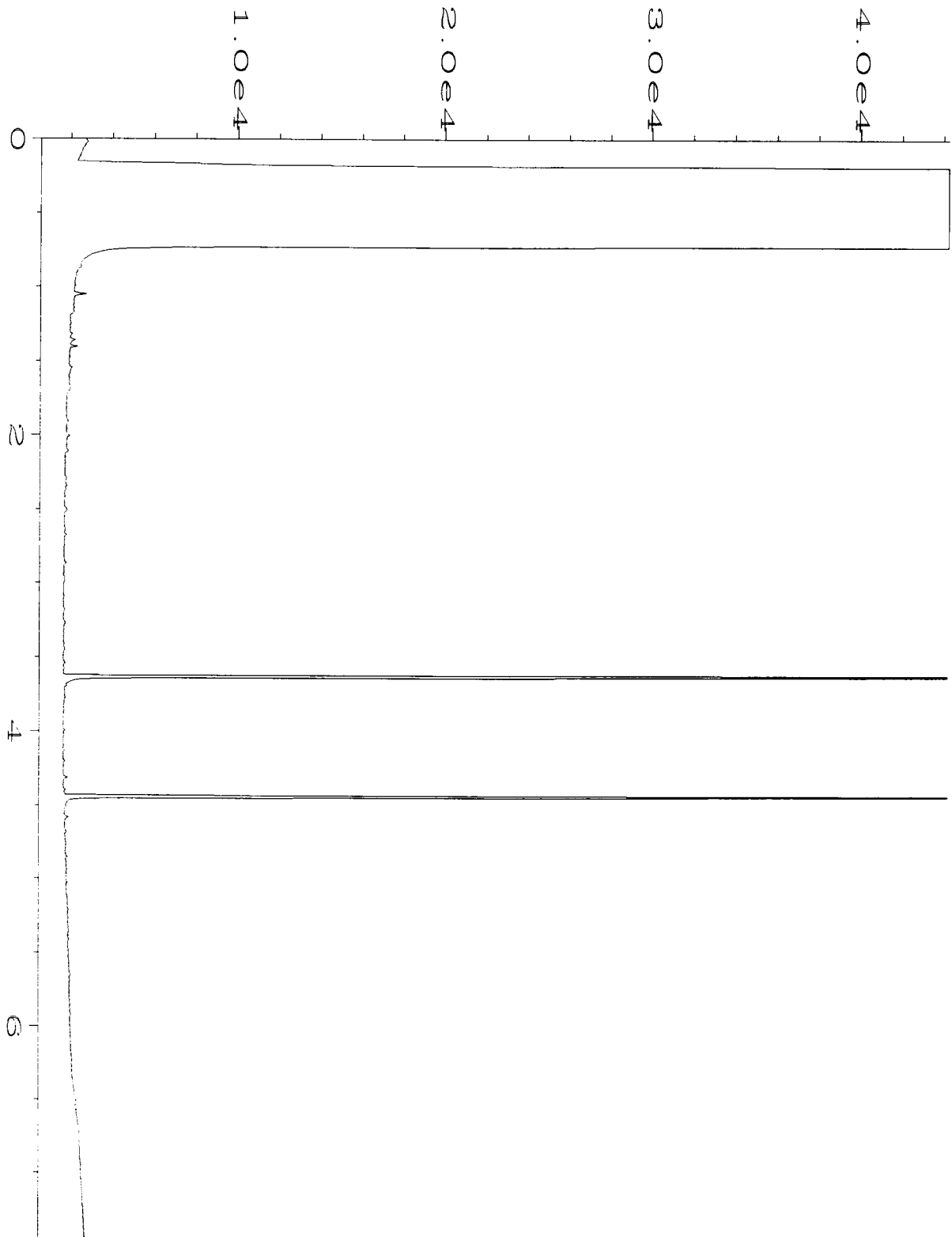
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



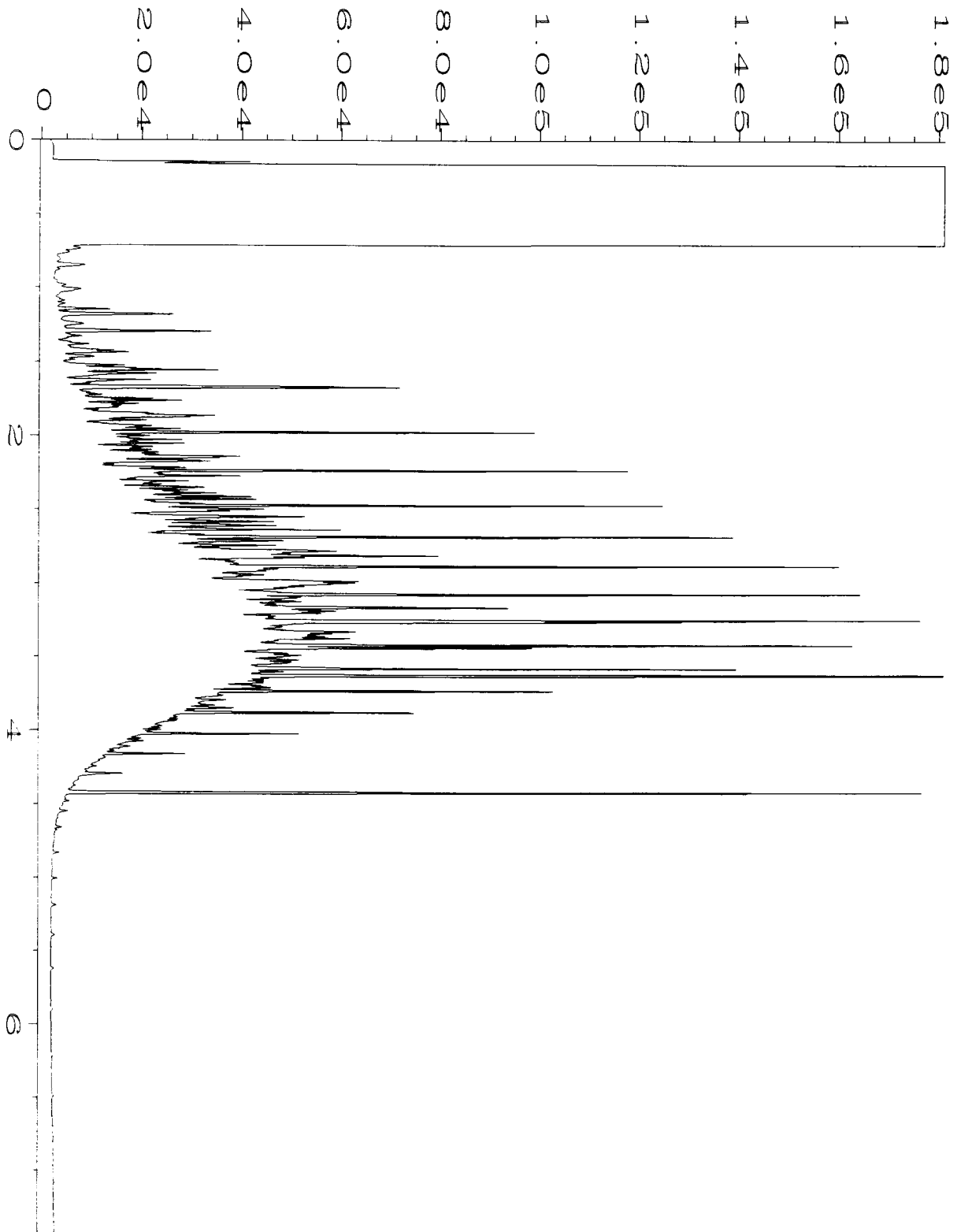
Data File Name	: C:\HPCHEM\4\DATA\03-09-16\019F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 19
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 603160-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 09 Mar 16 12:44 PM	Analysis Method	: DX.MTH
Report Created on:	09 Mar 16 01:16 PM		



Data File Name	: C:\HPCHEM\4\DATA\03-09-16\020F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 20
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 603160-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 09 Mar 16 12:56 PM	Analysis Method	: DX.MTH
Report Created on:	09 Mar 16 01:16 PM		



Data File Name	: C:\HPCHEM\4\DATA\03-09-16\006F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 6
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-468 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 09 Mar 16 10:13 AM	Analysis Method	: DX.MTH
Report Created on:	09 Mar 16 01:16 PM		



Data File Name	: C:\HPCHEM\4\DATA\03-09-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 09 Mar 16 09:39 AM	Analysis Method	: DX.MTH
Report Created on:	09 Mar 16 01:17 PM		



603160

SAMPLE CHAIN OF CUSTODY

ME 3/9/16

D02/VS1

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler  
 Company SoundEarth Strategies, Inc.  
 Address 2811 Fairview Avenue East, Suite 2000  
 City, State, ZIP Seattle, Washington 98102  
 Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) <i>[Signature]</i>	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS 1 low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method	GEMS Y / N

Page # 1 of 1

TURNAROUND TIME  
 Standard (2 Weeks)  
 RUSH 24 hr TAT  
 Rush charges authorized by:  
Chuck Cacek

SAMPLE DISPOSAL  
 Dispose after 30 days  
 Return samples  
 Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED					Notes
								NWTPH-DX	NWTPH-Gx	BTEX by 8021B	CVOCs by 8260B <sup>1</sup>		
VE43-N2-24	VE43-N2	24'	01A-E	3/9/16	0800	SOIL	5	X	X	X			
VE40-N2-22	VE40-N2	22'	02	3/9/16	0825	SOIL	5	X	X	X			
<i>[Signature]</i> 3/9/16													

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>[Signature]</i>	JONATHAN LOEFFLER	SOUNDEARTH	3/9/16	1009
Received by: <i>[Signature]</i>	<i>[Signature]</i>	ERT Inc	3/9/16	1009
Relinquished by:				
Received by:				

Samples received at 4 °C

***Friedman & Bruya, Inc. #603175***

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

March 11, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on March 9, 2016 from the SOU\_1002-003\_20160309, F&BI 603175 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Chuck Cacek, Jonathan Loeffler  
SOU0311R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 9, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160309, F&BI 603175 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
603175 -01	SP01-01
603175 -02	VE5-N3-24

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/11/16

Date Received: 03/09/16

Project: SOU\_1002-003\_20160309, F&BI 603175

Date Extracted: 03/09/16

Date Analyzed: 03/09/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE,  
XYLENES AND TPH AS GASOLINE  
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
VE5-N3-24 603175-02	<0.02	<0.02	<0.02	<0.06	<2	86
Method Blank 06-427 MB	<0.02	<0.02	<0.02	<0.06	<2	90

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/11/16

Date Received: 03/09/16

Project: SOU\_1002-003\_20160309, F&BI 603175

Date Extracted: 03/10/16

Date Analyzed: 03/10/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
SP01-01 603175-01	<50	<250	95
VE5-N3-24 603175-02	<50	<250	95
Method Blank 06-473 MB2	<50	<250	92

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/11/16

Date Received: 03/09/16

Project: SOU\_1002-003\_20160309, F&BI 603175

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE,  
XYLENES, AND TPH AS GASOLINE  
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 603144-03 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	80	69-120
Toluene	mg/kg (ppm)	0.5	87	70-117
Ethylbenzene	mg/kg (ppm)	0.5	86	65-123
Xylenes	mg/kg (ppm)	1.5	85	66-120
Gasoline	mg/kg (ppm)	20	100	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/11/16

Date Received: 03/09/16

Project: SOU\_1002-003\_20160309, F&BI 603175

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 603172-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	112	106	64-133	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	119	58-147



# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

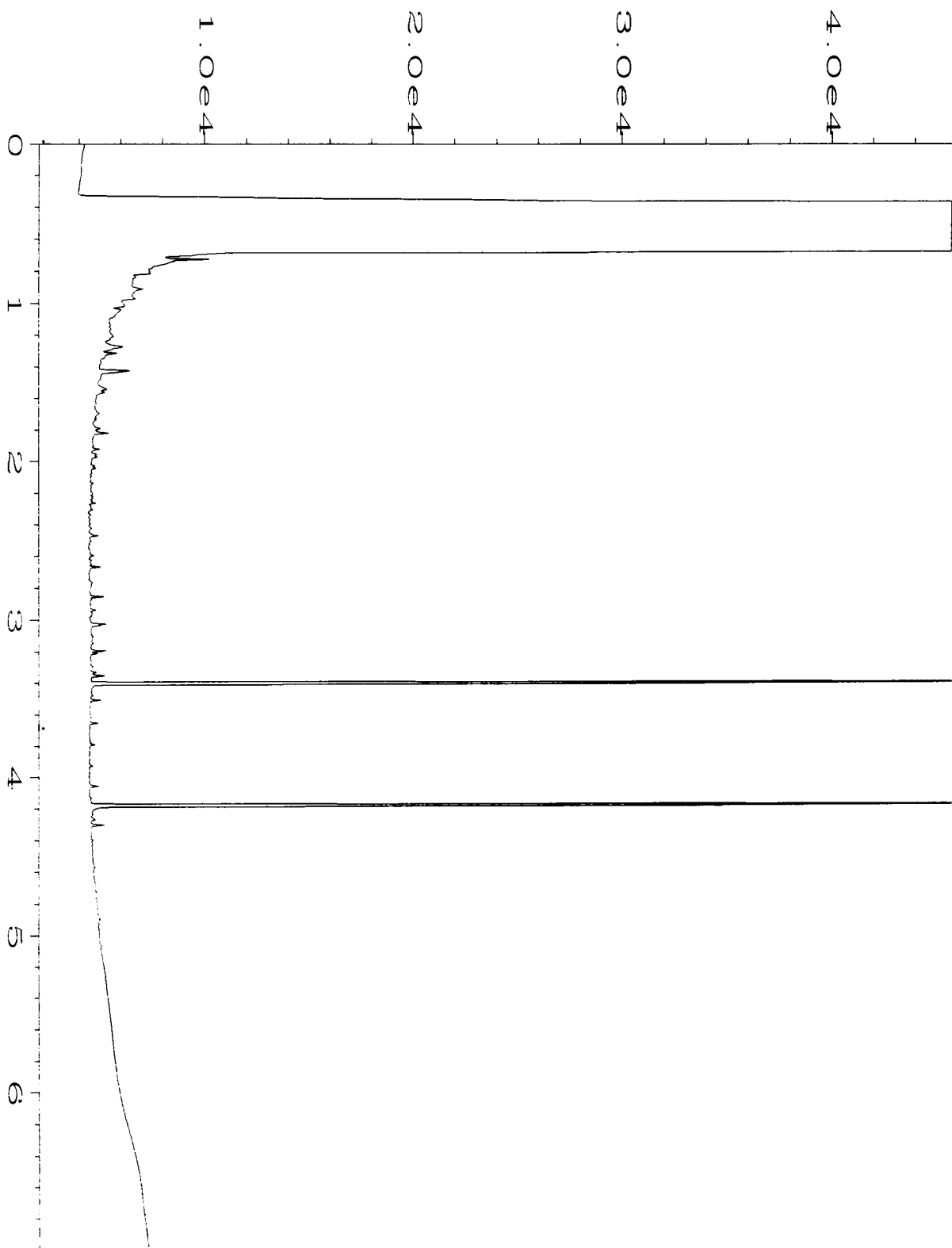
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

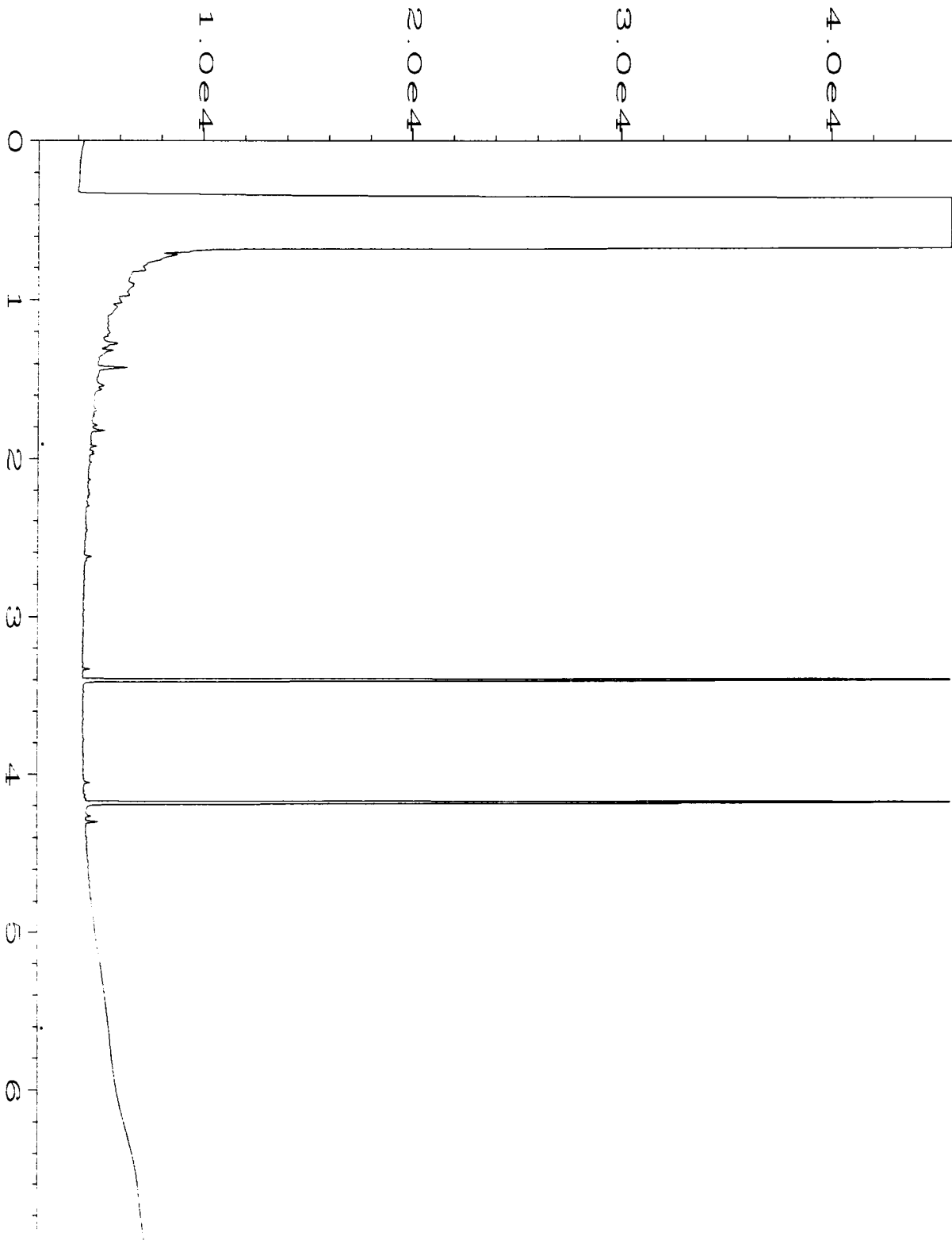
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

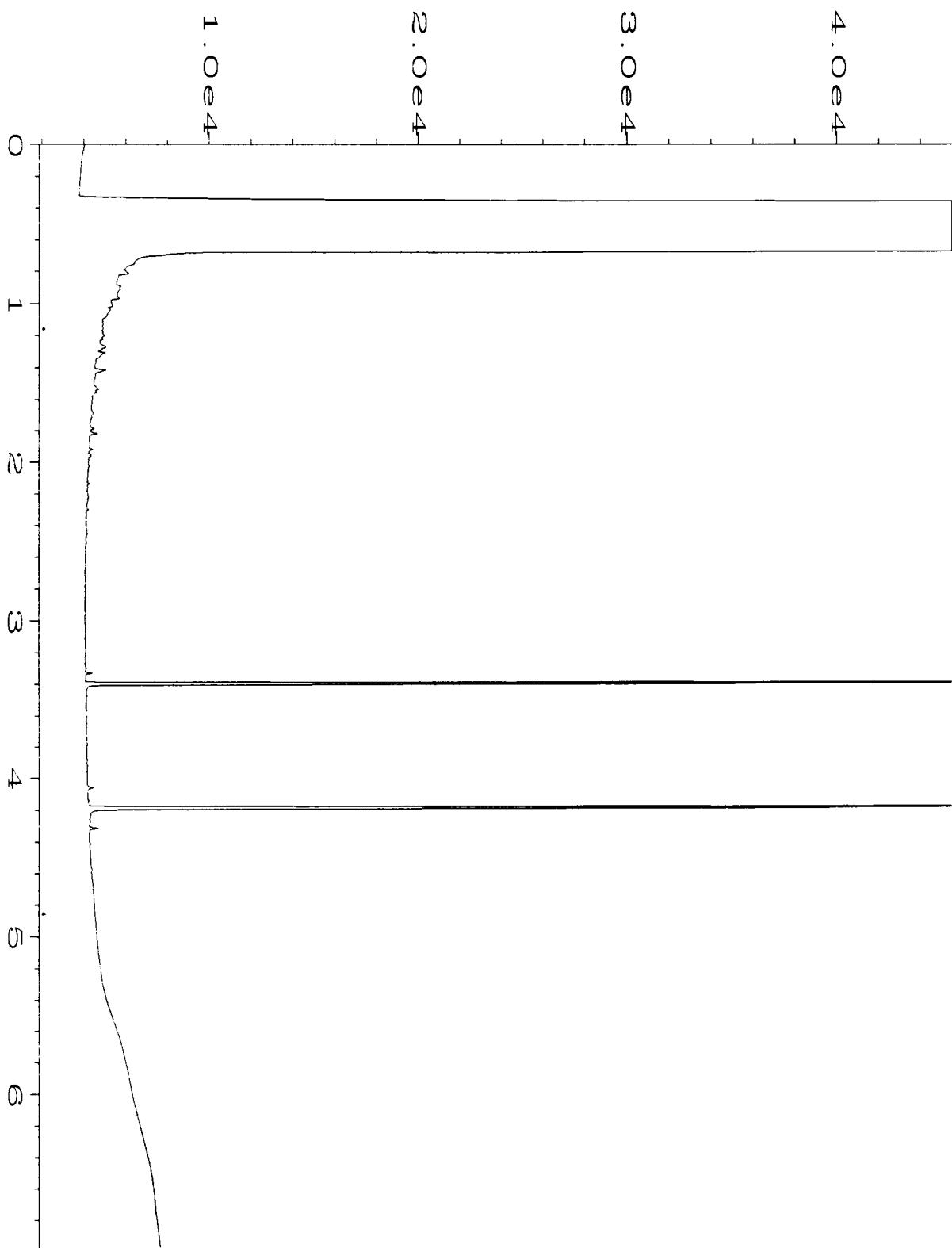
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



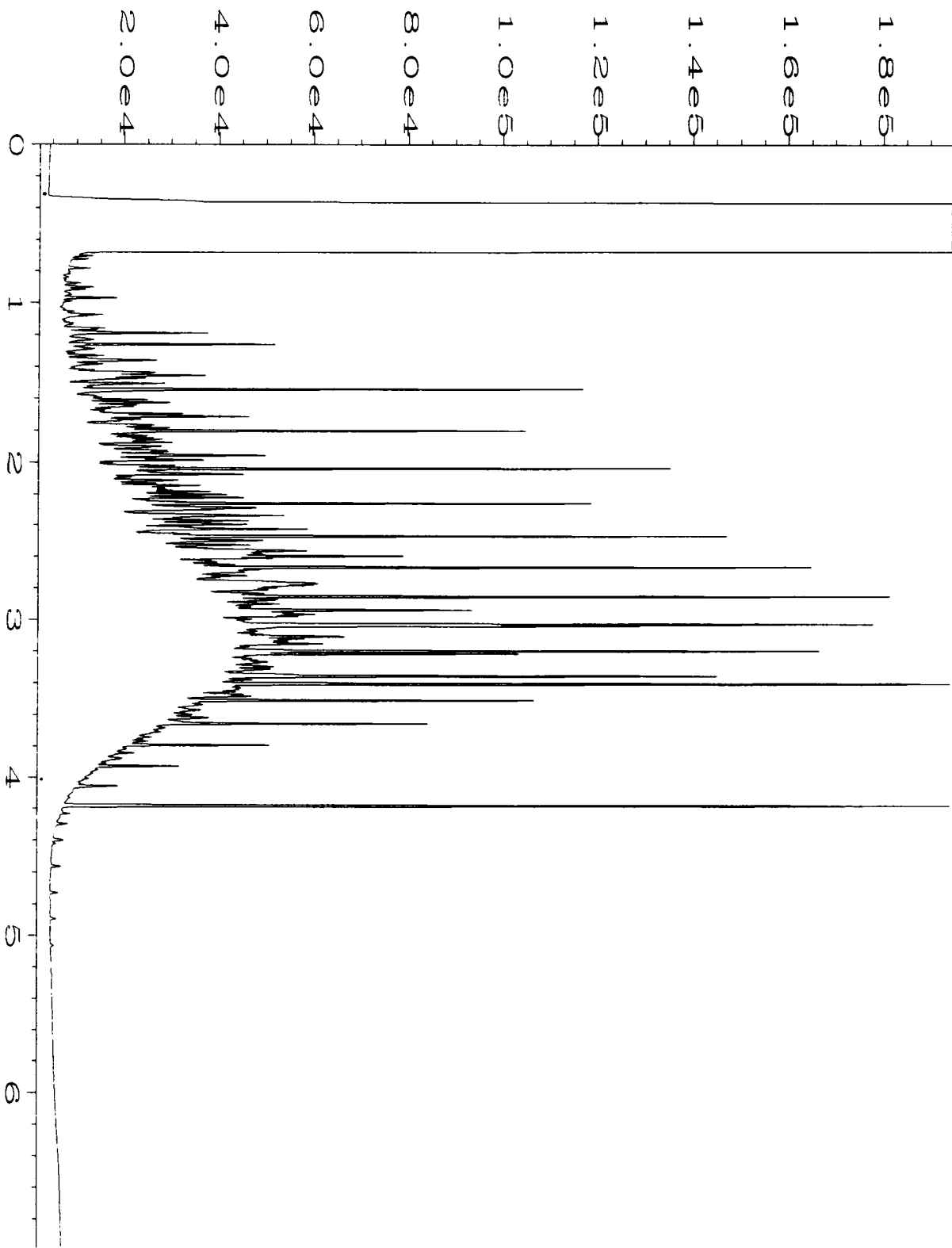
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Operator	: mwdl	Vial Number	: 7
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 603175-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Mar 16 07:53 AM	Analysis Method	: BAKEOUT.MTH
Report Created on:	10 Mar 16 10:32 AM		



Data File Name	: C:\HPCHEM\6\DATA\03-10-16\008F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 8
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 603175-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Mar 16 08:04 AM	Analysis Method	: BAKEOUT.MTH
Report Created on:	10 Mar 16 10:32 AM		



Data File Name	: C:\HPCHEM\6\DATA\03-10-16\006F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 6
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 06-473 mb2	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Mar 16 07:45 AM	Analysis Method	: BAKEOUT.MTH
Report Created on:	10 Mar 16 10:32 AM		



Data File Name	: C:\HPCHEM\6\DATA\03-10-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Mar 16 06:44 AM	Analysis Method	: BAKEOUT.MTH
Report Created on:	10 Mar 16 10:32 AM		

603175

SAMPLE CHAIN OF CUSTODY

ME 03-09-16

VS1 / CI 1

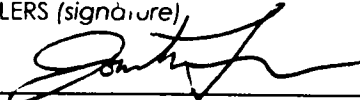
Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler

Company SoundEarth Strategies, Inc.

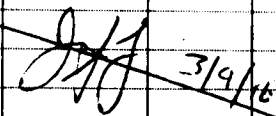
Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # (206) 306-1900 Fax # (206) 306-1907


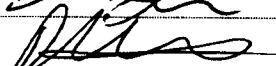
SAMPLERS (signature) 	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS 1 low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method	GEMS Y / N

Page # <u>1</u> of <u>1</u>
TURNAROUND TIME Standard (2 Weeks) X RUSH <u>24 hr TAT</u> Rush charges authorized by: <u>Chuck Cacek</u>
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED				Notes
								NWTPH-DX	NWTPH-GX	BTEX by 8021B	CVOCs by 8260B <sup>1</sup>	
SP01-01	SP01	—	01	3/9/16	1230	SOIL	1	X				
VE5-N3-24	VE5-N3	24'	02A-E	3/9/16	1333	SOIL	5	X	X	X		
												

Samples received at 4 °C

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	JONATHAN LOEFFLER	SOUNDEARTH	3/9/16	1636
Received by: 	Keith Langston	FB Inc	3/9/16	1636
Relinquished by:				
Received by:				

***Friedman & Bruya, Inc. #603241***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

March 17, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on March 14, 2016 from the SOU\_1002-003\_ 20160314, F&BI 603241 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Chuck Cacek, Jonathan Loeffler  
SOU0317R.DOC



FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 14, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160314, F&BI 603241 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
603241 -01	VE6-N11-25
603241 -02	VE7-N11-25
603241 -03	VE38-N5-22

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/17/16

Date Received: 03/14/16

Project: SOU\_ 1002-003\_ 20160314, F&BI 603241

Date Extracted: 03/15/16

Date Analyzed: 03/15/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE,  
XYLENES AND TPH AS GASOLINE  
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
VE6-N11-25 603241-01	<0.02	<0.02	<0.02	<0.06	<2	94
VE7-N11-25 603241-02	<0.02	<0.02	<0.02	<0.06	<2	94
VE38-N5-22 603241-03	<0.02	<0.02	<0.02	<0.06	<2	92
Method Blank 06-435 MB2	<0.02	<0.02	<0.02	<0.06	<2	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/17/16

Date Received: 03/14/16

Project: SOU\_1002-003\_20160314, F&BI 603241

Date Extracted: 03/15/16

Date Analyzed: 03/15/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> (% Recovery) (Limit 48-168)
VE6-N11-25 603241-01	<50	<250	100
VE7-N11-25 603241-02	<50	<250	102
VE38-N5-22 603241-03	<50	<250	98
Method Blank 06-487 MB2	<50	<250	117

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/17/16

Date Received: 03/14/16

Project: SOU\_ 1002-003\_ 20160314, F&BI 603241

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE,  
XYLENES, AND TPH AS GASOLINE  
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	0.5	96	92	69-120	4
Toluene	mg/kg (ppm)	0.5	103	99	70-117	4
Ethylbenzene	mg/kg (ppm)	0.5	104	101	65-123	3
Xylenes	mg/kg (ppm)	1.5	102	99	66-120	3
Gasoline	mg/kg (ppm)	20	95	95	71-131	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/17/16

Date Received: 03/14/16

Project: SOU\_ 1002-003\_ 20160314, F&BI 603241

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 603215-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	99	101	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	98	74-139

# FRIEDMAN & BRUYA, INC.

---

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

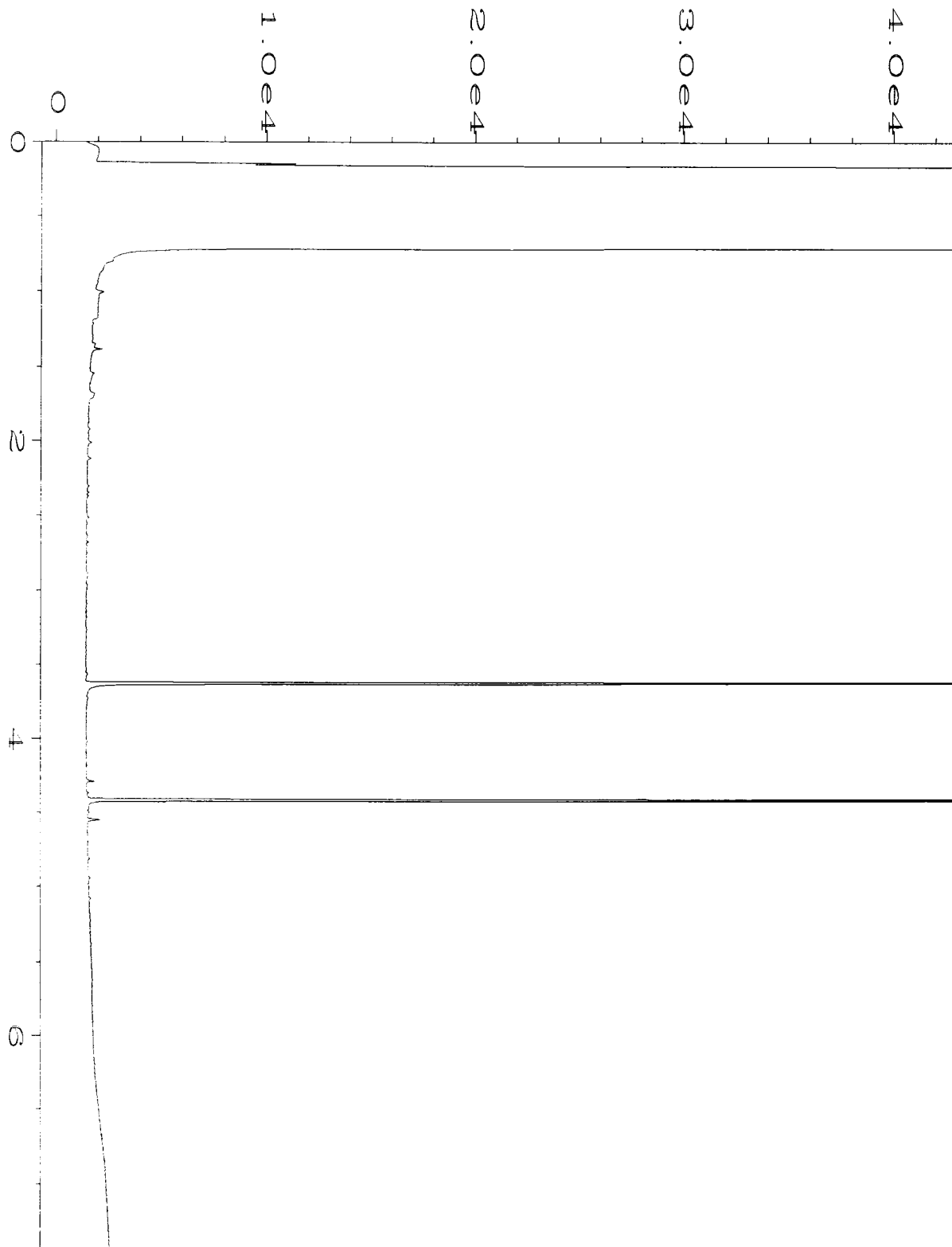
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

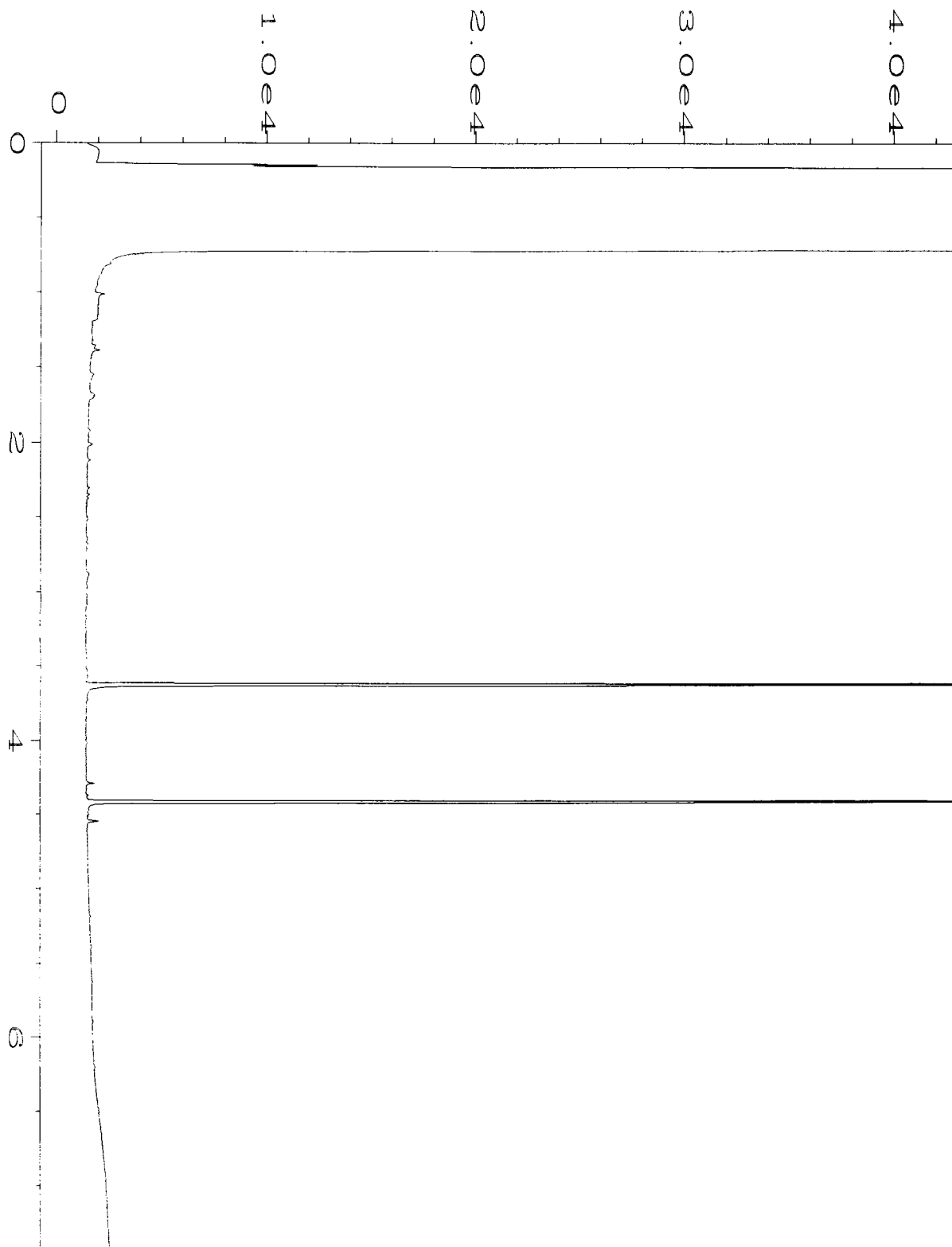
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

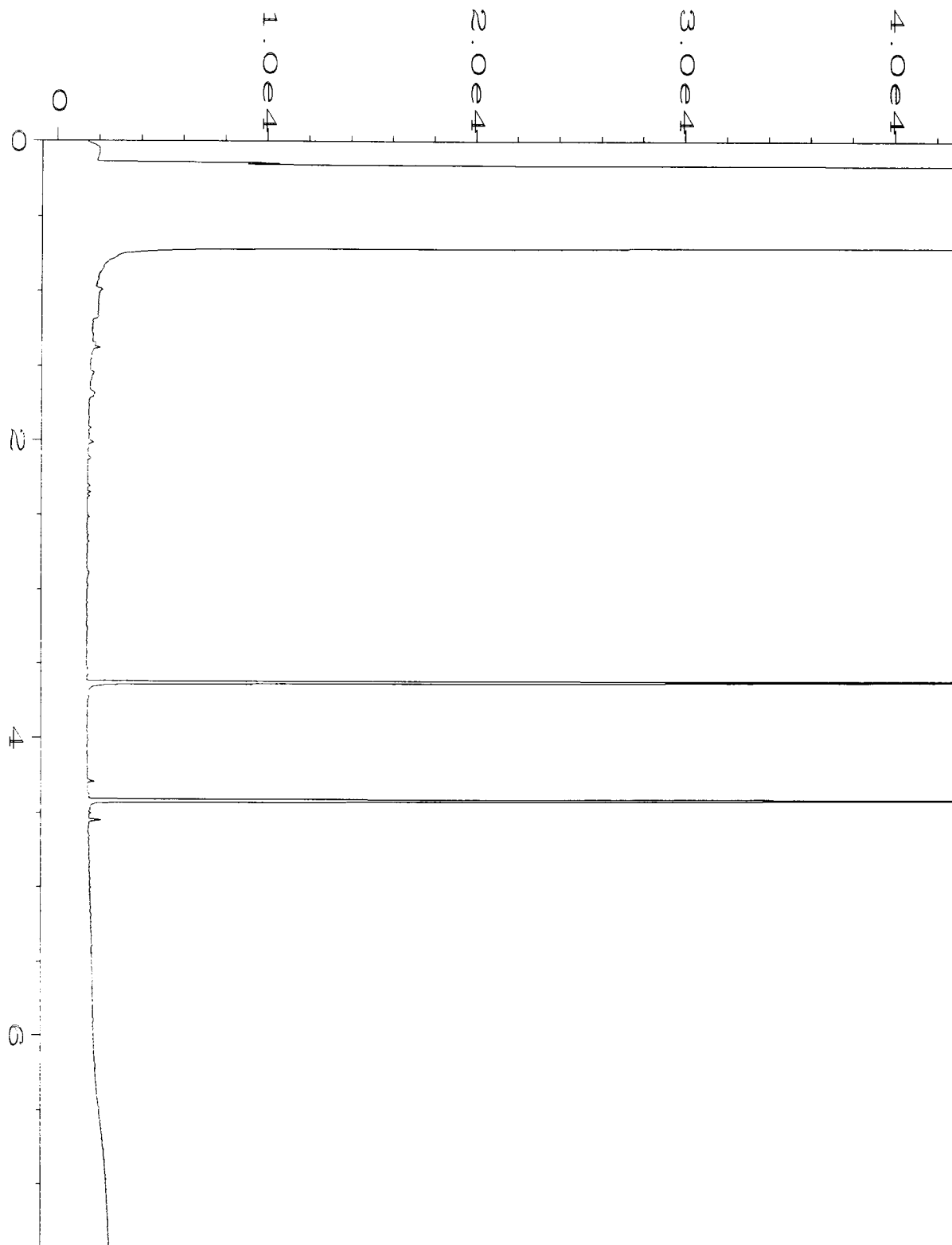


Data File Name	: C:\HPCHEM\4\DATA\03-15-16\017F0501.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 17
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 603241-01	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 15 Mar 16 11:32 AM	Analysis Method	: DX.MTH
Report Created on:	15 Mar 16 11:59 AM		

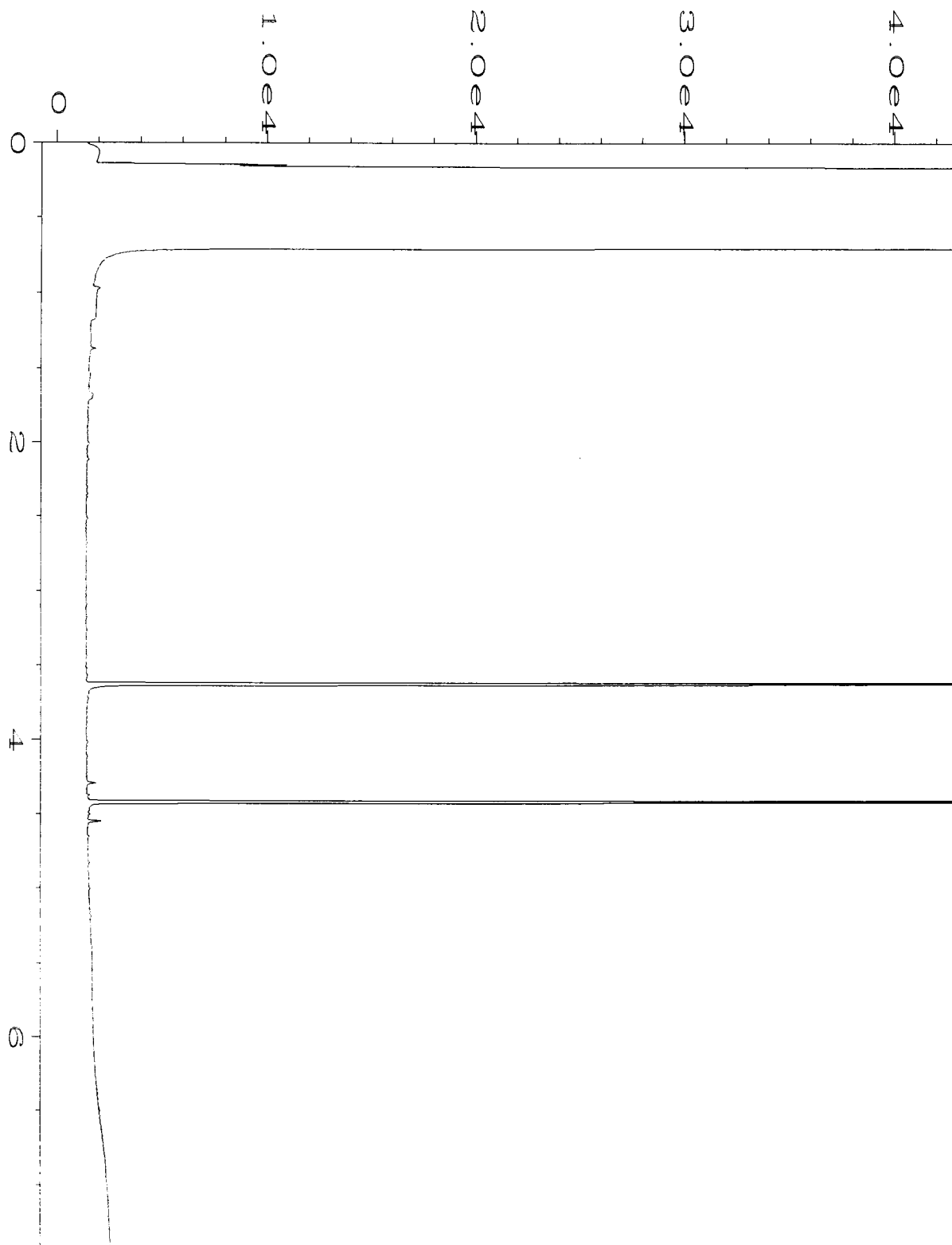


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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 603241-02	Sequence Line	: 5
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 15 Mar 16 11:44 AM	Analysis Method	: DX.MTH
Report Created on:	: 15 Mar 16 11:59 AM		

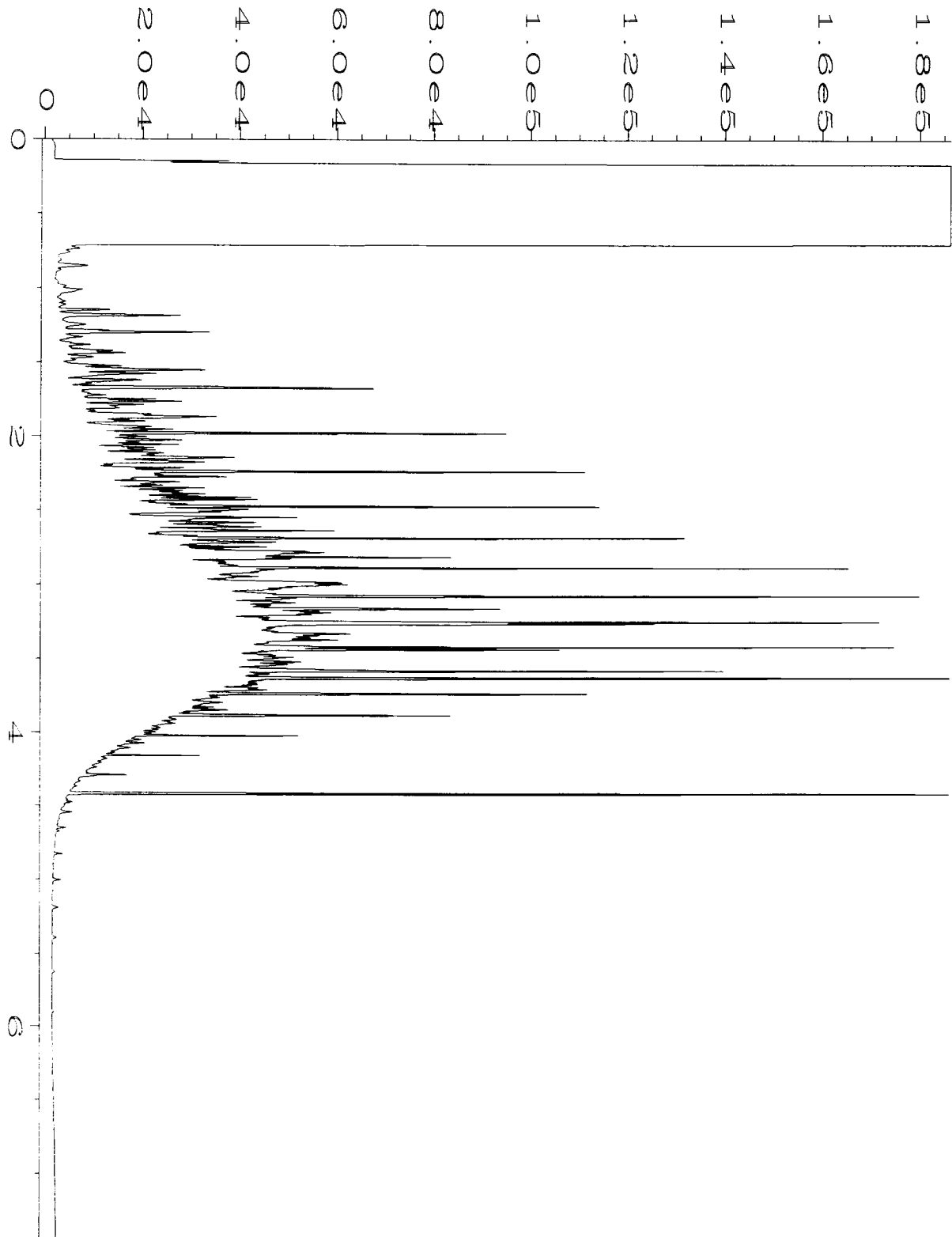




Data File Name	: C:\HPCHEM\4\DATA\03-15-16\019F0501.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 19
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 603241-03	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 15 Mar 16 11:55 AM	Analysis Method	: DX.MTH
Report Created on:	15 Mar 16 12:08 PM		



Data File Name	: C:\HPCHEM\4\DATA\03-15-16\016F0501.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 16
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-487 mb2	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 15 Mar 16 11:20 AM	Analysis Method	: DX.MTH
Report Created on:	15 Mar 16 11:59 AM		



Data File Name	: C:\HPCHEM\4\DATA\03-15-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 15 Mar 16 06:32 AM	Analysis Method	: DX.MTH
Report Created on:	15 Mar 16 12:00 PM		

( 603241 )

### SAMPLE CHAIN OF CUSTODY

ME 03/14/16

USI / DOI

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler  
 Company SoundEarth Strategies, Inc.  
 Address 2811 Fairview Avenue East, Suite 2000  
 City, State, ZIP Seattle, Washington 98102  
 Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. MADISON TACO TIME 1002-003 PO # \_\_\_\_\_

REMARKS low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method GEMS Y / N \_\_\_\_\_

Page # 1 of 1

TURNAROUND TIME  
 Standard (2 Weeks)  
 ✓ RUSH 24 hr TAT  
 Rush charges authorized by: Chuck Cacek

SAMPLE DISPOSAL  
 Dispose after 30 days  
 Return samples  
 Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED					Notes
								NWTPH-DX	NWTPH-GX	BTEX by 8021B	CVOCs by 8260B		
VE6-N11-25	VE6-N11	25'	01A-E	3/14/16	1136	SOIL	5	X	X	X			
VE7-N11-25	VE7-N11	25'	02	3/14/16	1141	SOIL	5	X	X	X			
VE38-N5-22	VE38-N5	22'	03 ✓	3/14/16	1423	SOIL	5	X	X	X			
<del>[Signature] 3/14/16</del>													

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	JON LOEFFLER	SOUND EARTH	3/14/16	1712
Received by: <u>[Signature]</u>	VINGH	FBI	3/14/16	1712
Relinquished by:				
Received by:				
Samples received at <u>3</u> °C				

***Friedman & Bruya, Inc. #604326***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

April 22, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on April 18, 2016 from the SOU\_1002-003\_20160418, F&BI 604326 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Chuck Cacek, Jonathan Loeffler  
SOU0422R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 18, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160418, F&BI 604326 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
604326 -01	VE41-N8-24
604326 -02	VE9-N6-31
604326 -03	VE8-N8-35
604326 -04	VE7-N7-34
604326 -05	VE6-N10-35
604326 -06	VE7-N11-35
604326 -07	VE6-N12-33

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/22/16  
 Date Received: 04/18/16  
 Project: SOU\_1002-003\_20160418, F&BI 604326  
 Date Extracted: 04/20/16  
 Date Analyzed: 04/20/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
 FOR BENZENE, TOLUENE, ETHYLBENZENE,  
 XYLENES AND TPH AS GASOLINE  
 USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
VE41-N8-24 604326-01	<0.02	<0.02	<0.02	<0.06	<2	81
VE9-N6-31 604326-02	<0.02	<0.02	<0.02	<0.06	<2	83
VE8-N8-35 604326-03	<0.02	<0.02	<0.02	<0.06	<2	81
VE7-N7-34 604326-04	<0.02	<0.02	<0.02	<0.06	<2	82
VE6-N10-35 604326-05	<0.02	<0.02	<0.02	<0.06	<2	82
VE7-N11-35 604326-06	<0.02	<0.02	<0.02	<0.06	<2	81
VE6-N12-33 604326-07	<0.02	<0.02	<0.02	<0.06	<2	77
Method Blank 06-776 MB2	<0.02	<0.02	<0.02	<0.06	<2	81



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/22/16  
 Date Received: 04/18/16  
 Project: SOU\_1002-003\_20160418, F&BI 604326  
 Date Extracted: 04/19/16  
 Date Analyzed: 04/19/16

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
 FOR TOTAL PETROLEUM HYDROCARBONS AS  
 DIESEL AND MOTOR OIL  
 USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis  
 Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
VE41-N8-24 604326-01	<50	<250	86
VE9-N6-31 604326-02	<50	<250	102
VE8-N8-35 604326-03	<50	<250	97
VE7-N7-34 604326-04	<50	<250	91
VE6-N10-35 604326-05	<50	<250	90
VE7-N11-35 604326-06	<50	<250	91
VE6-N12-33 604326-07	<50	<250	98
Method Blank 06-769 MB	<50	<250	110

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/22/16

Date Received: 04/18/16

Project: SOU\_1002-003\_20160418, F&BI 604326

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES  
FOR BENZENE, TOLUENE, ETHYLBENZENE,  
XYLENES, AND TPH AS GASOLINE  
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 604332-05 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	86	66-121
Toluene	mg/kg (ppm)	0.5	85	72-128
Ethylbenzene	mg/kg (ppm)	0.5	88	69-132
Xylenes	mg/kg (ppm)	1.5	87	69-131
Gasoline	mg/kg (ppm)	20	95	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/22/16

Date Received: 04/18/16

Project: SOU\_1002-003\_20160418, F&BI 604326

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 604321-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	10,000	<50	115	109	73-135	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	10,000	111	74-139

**Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

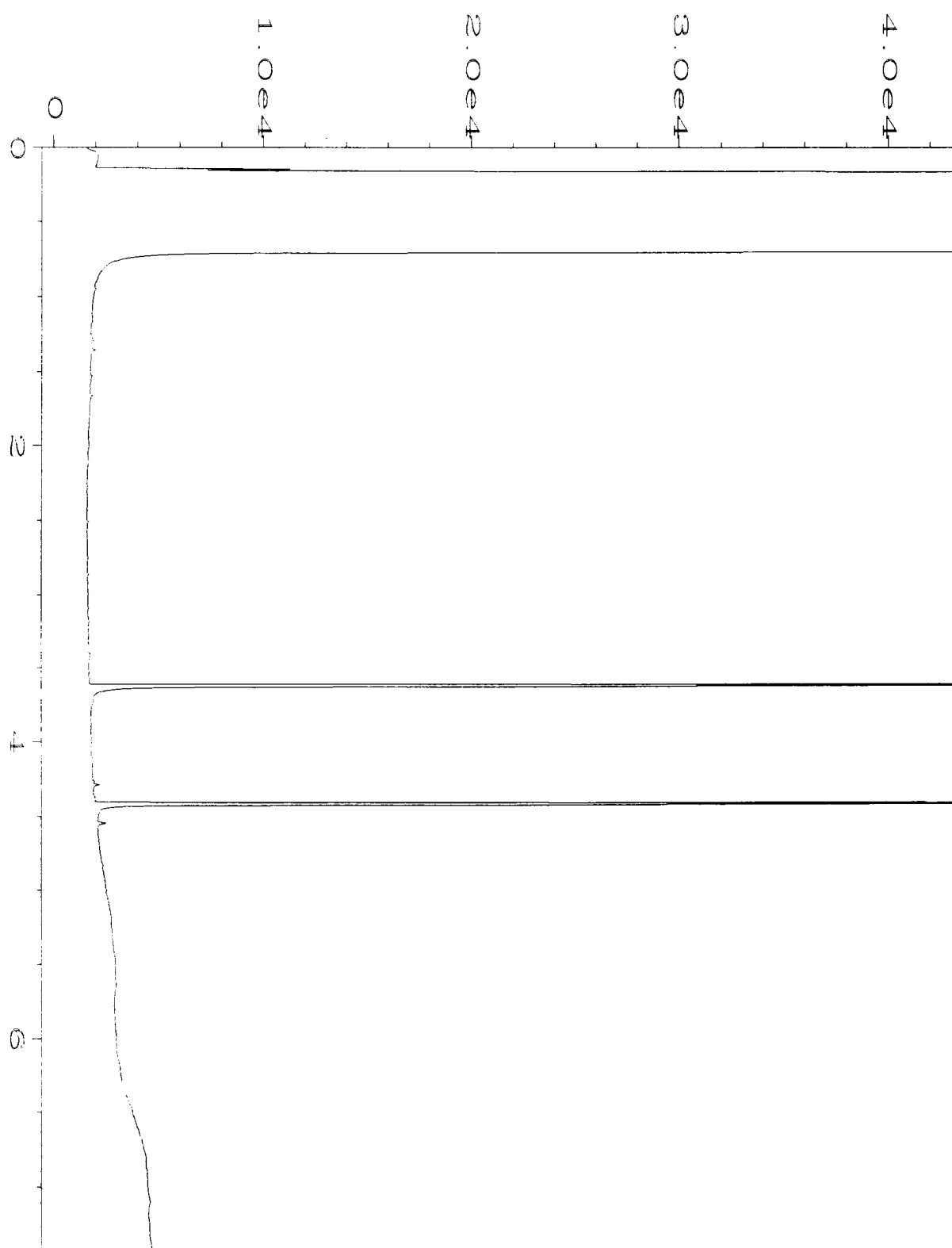
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

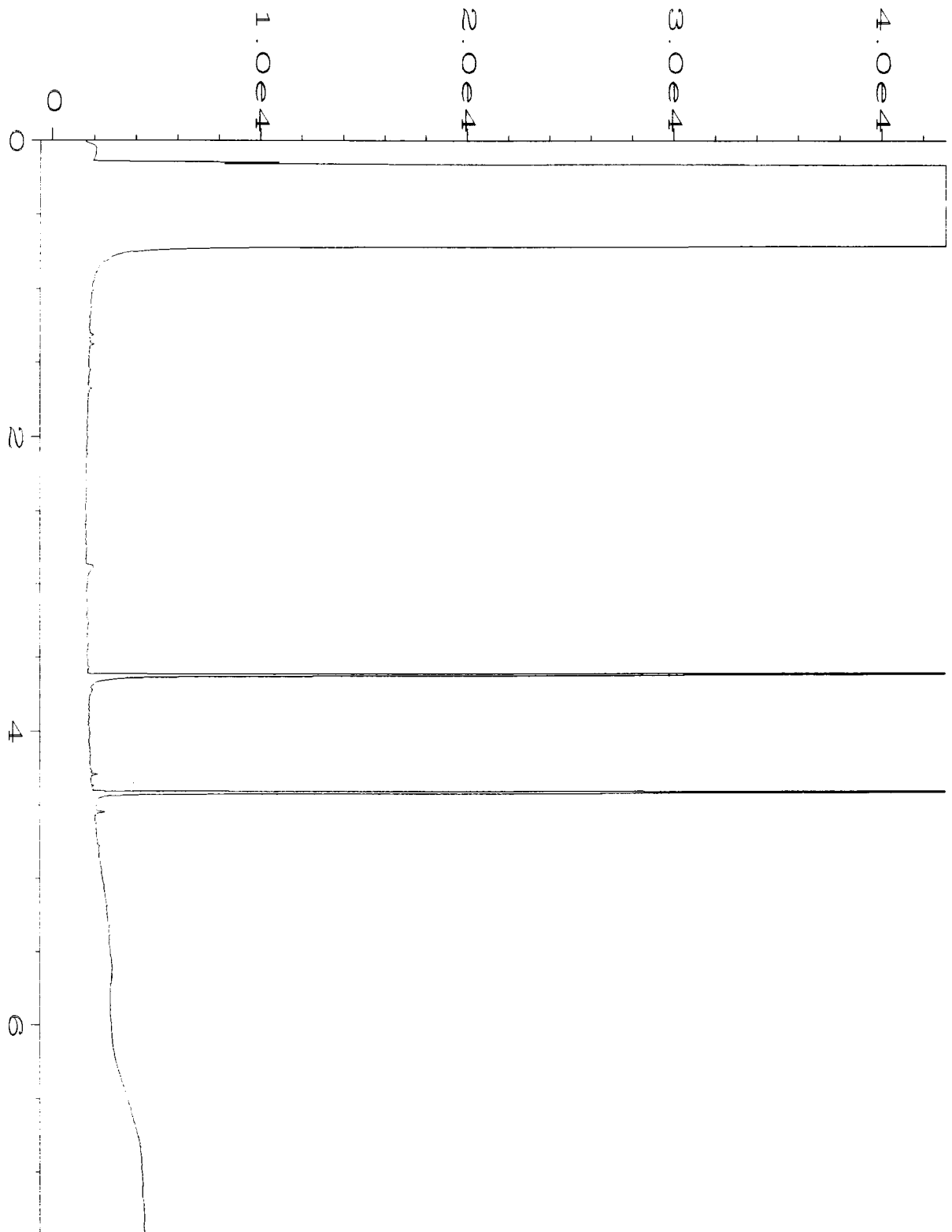
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

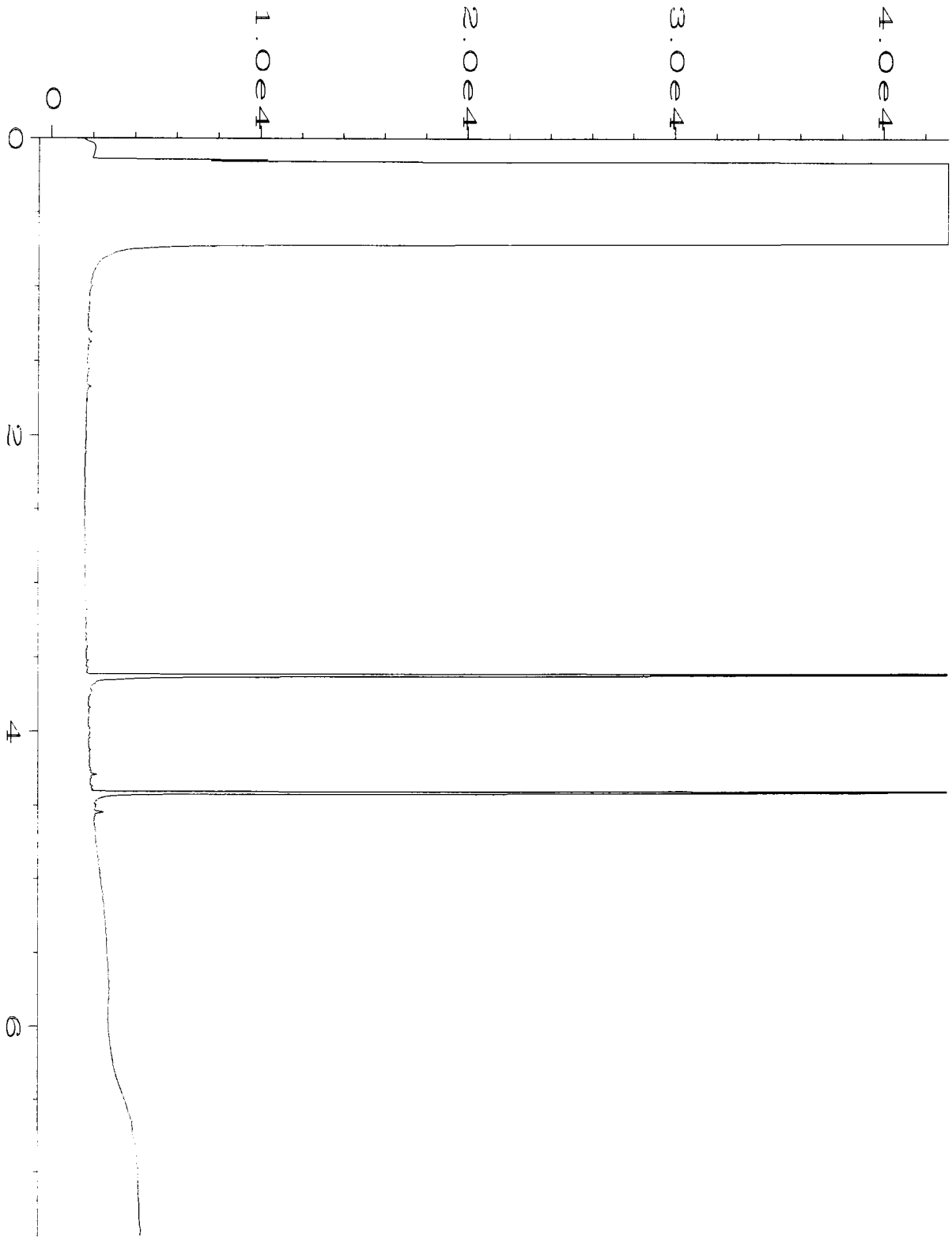
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



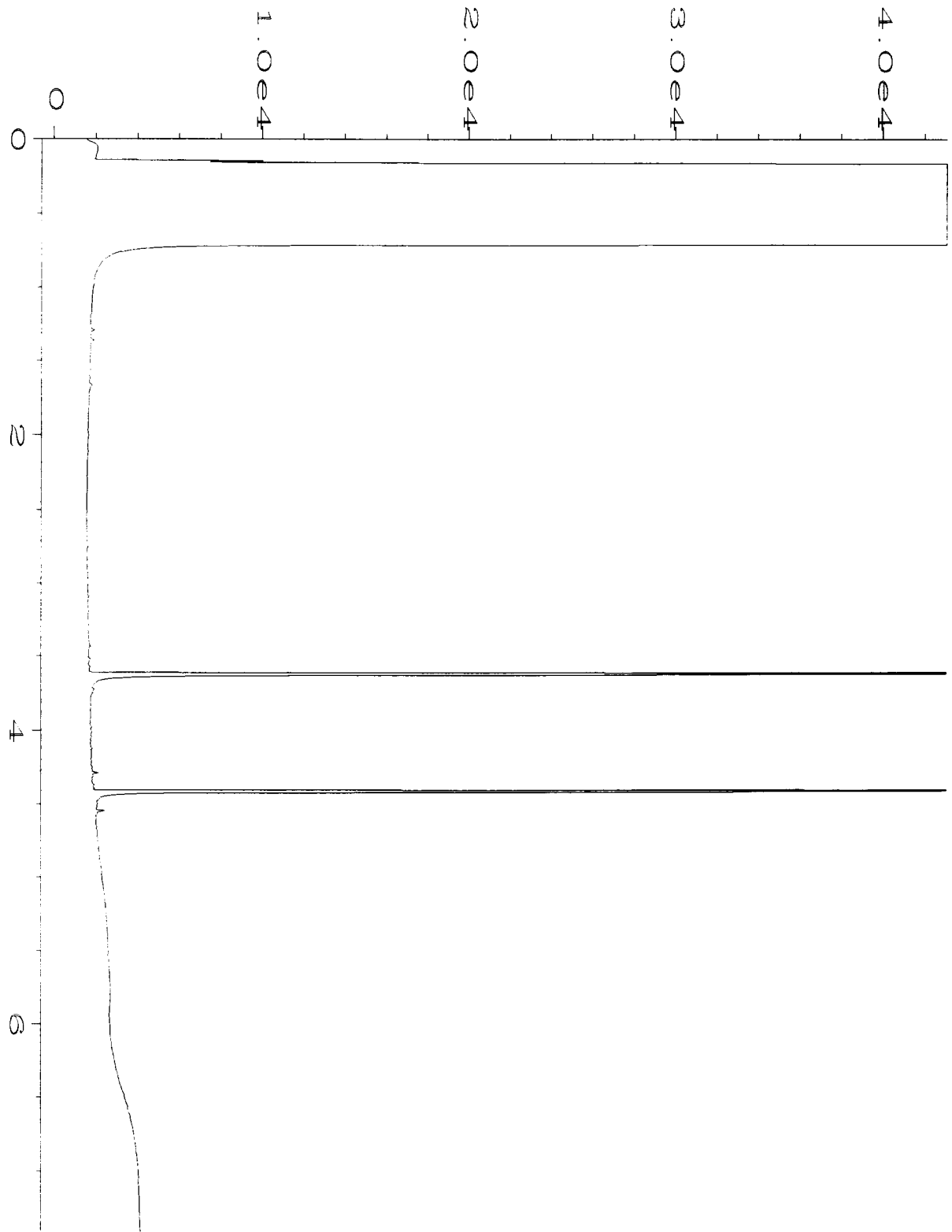
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Operator	: mwdl	Vial Number	: 32
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 604326-01	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Apr 16 03:40 PM	Analysis Method	: DX.MTH
Report Created on:	20 Apr 16 10:08 AM		



Data File Name	: C:\HPCHEM\4\DATA\04-19-16\033F0801.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 33
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 604326-02	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Apr 16 03:52 PM	Analysis Method	: DX.MTH
Report Created on:	20 Apr 16 10:09 AM		

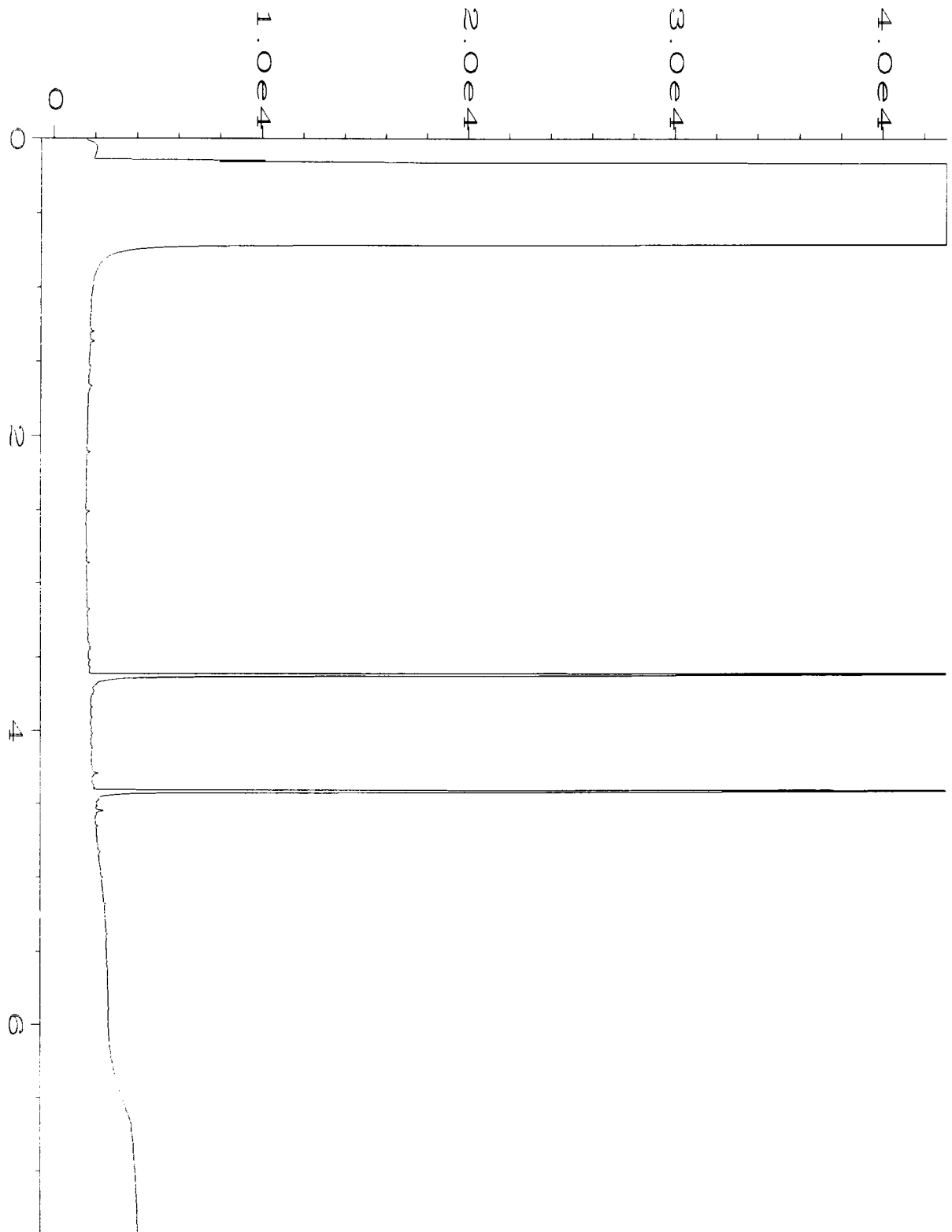


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Operator	: mwdl	Vial Number	: 34
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 604326-03	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Apr 16 04:04 PM	Analysis Method	: DX.MTH
Report Created on:	20 Apr 16 10:09 AM		

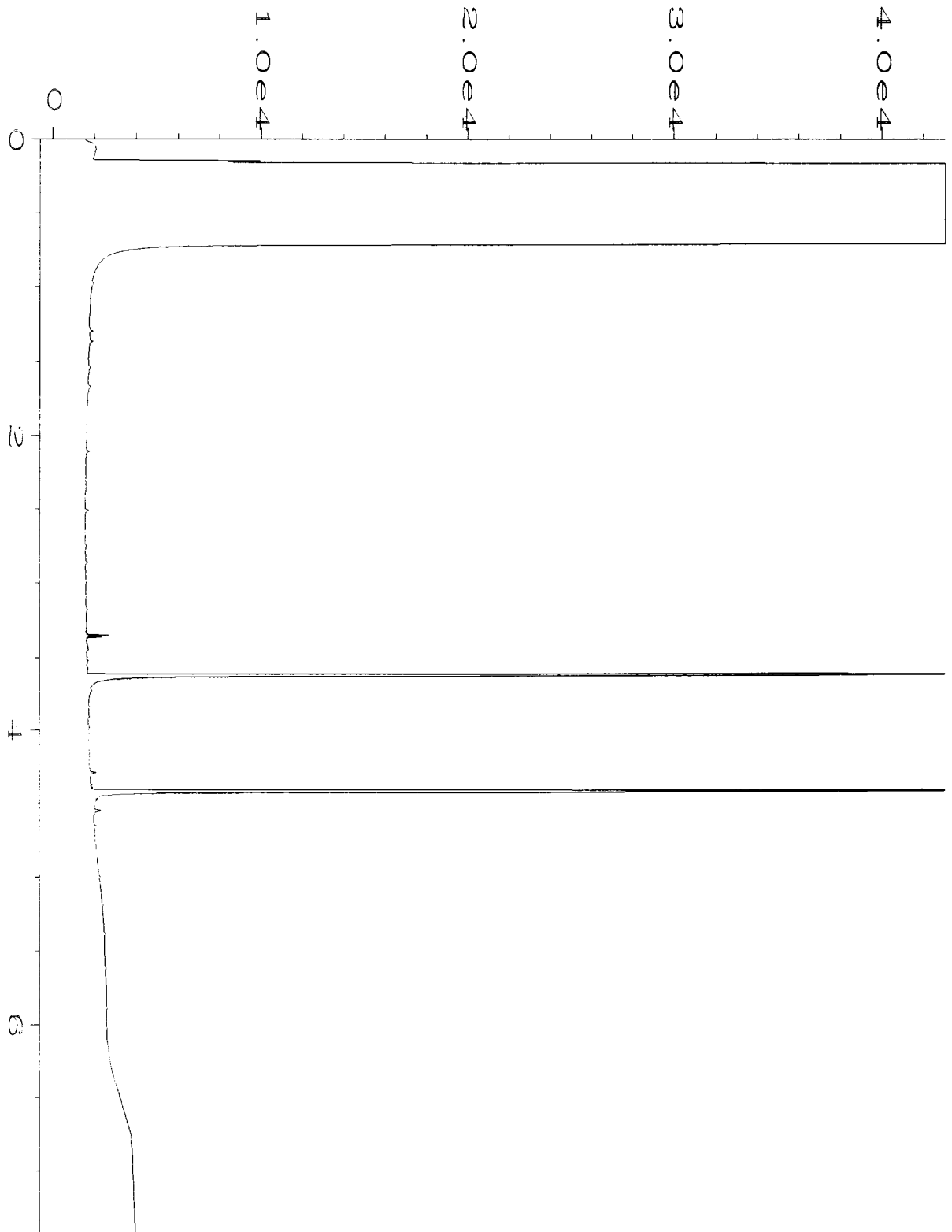


Data File Name	: C:\HPCHEM\4\DATA\04-19-16\035F0801.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 35
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 604326-04	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Apr 16 04:15 PM	Analysis Method	: DX.MTH
Report Created on:	20 Apr 16 10:09 AM		

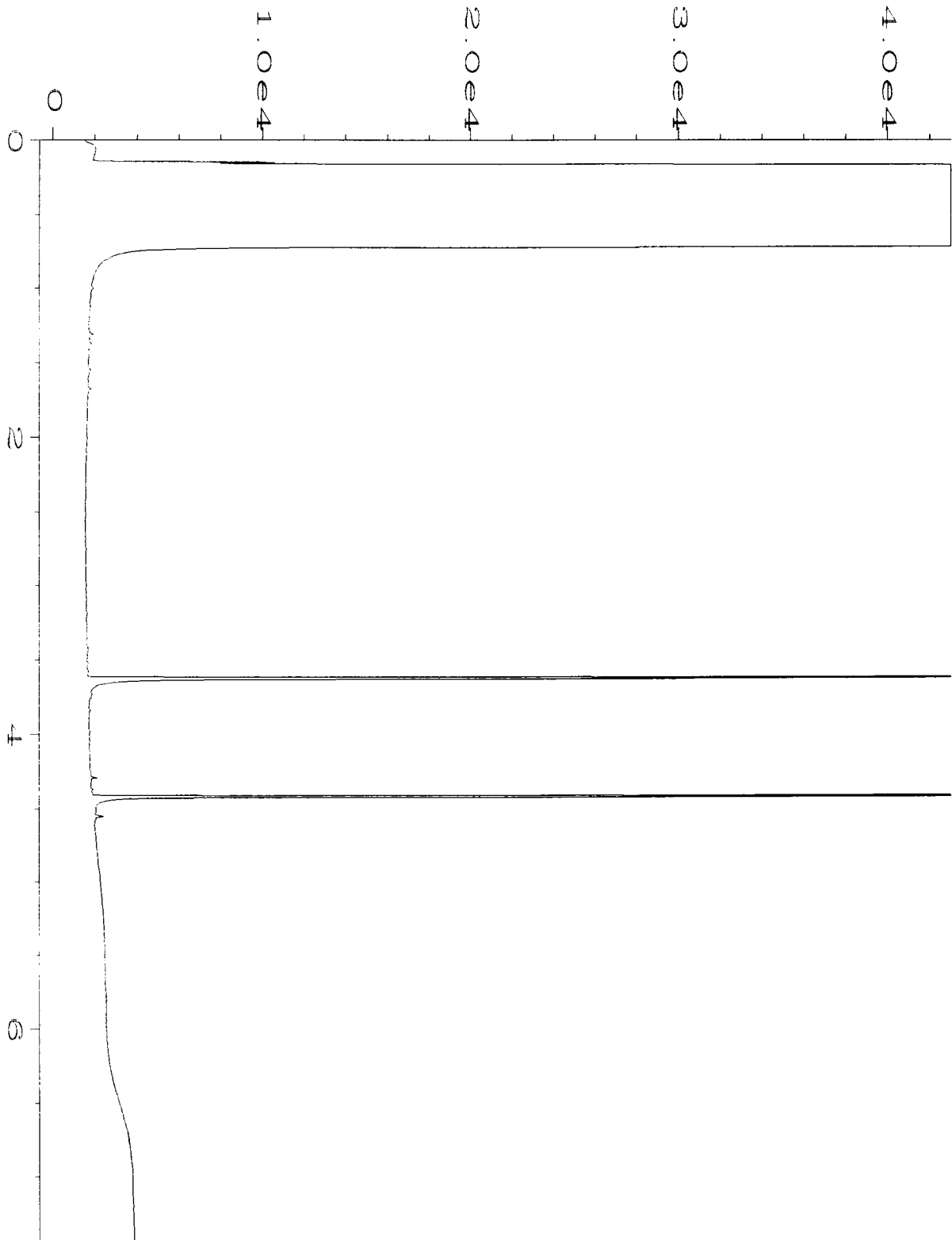




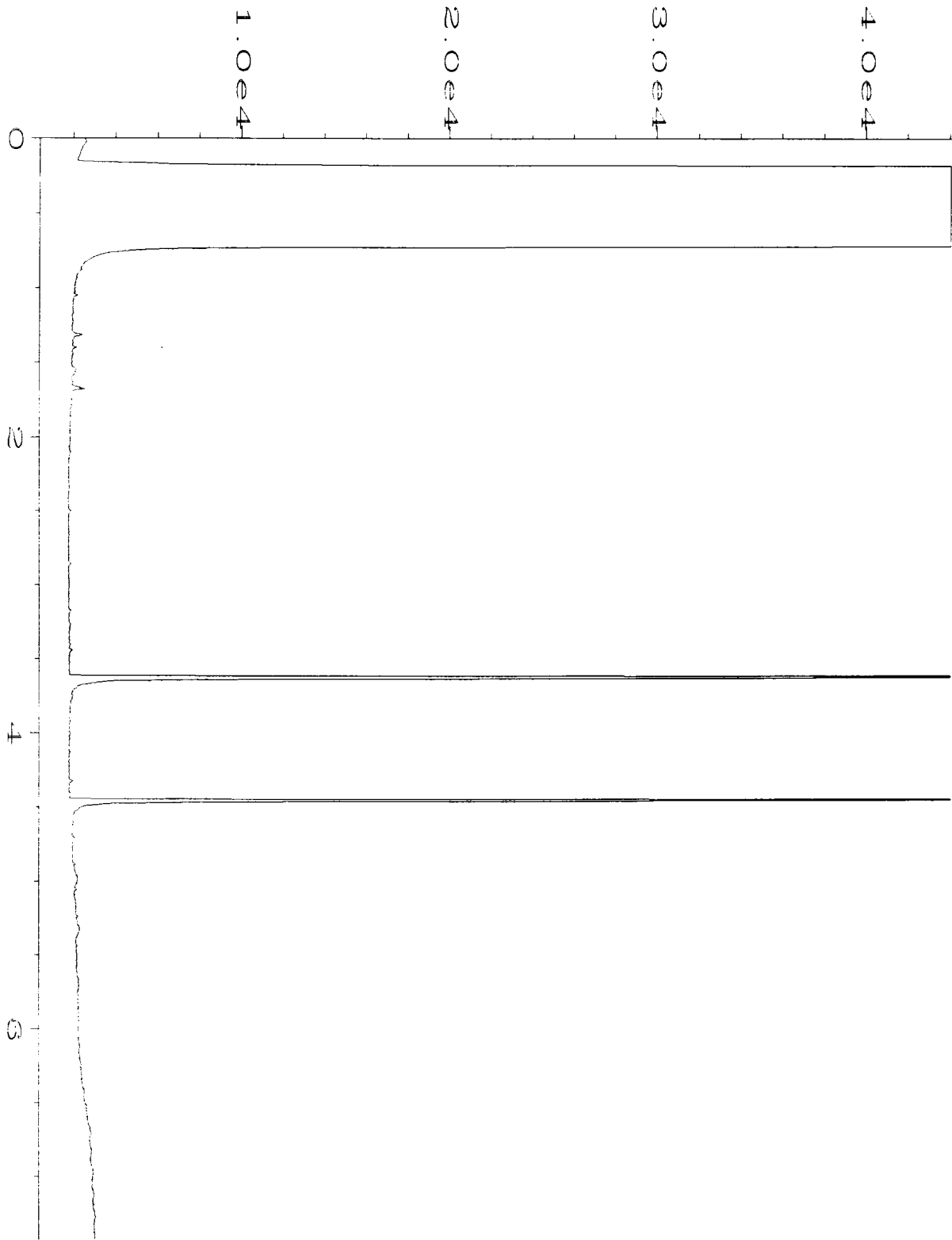
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Operator	: mwdl	Vial Number	: 36
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 604326-05	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Apr 16 04:28 PM	Analysis Method	: DX.MTH
Report Created on:	20 Apr 16 10:09 AM		



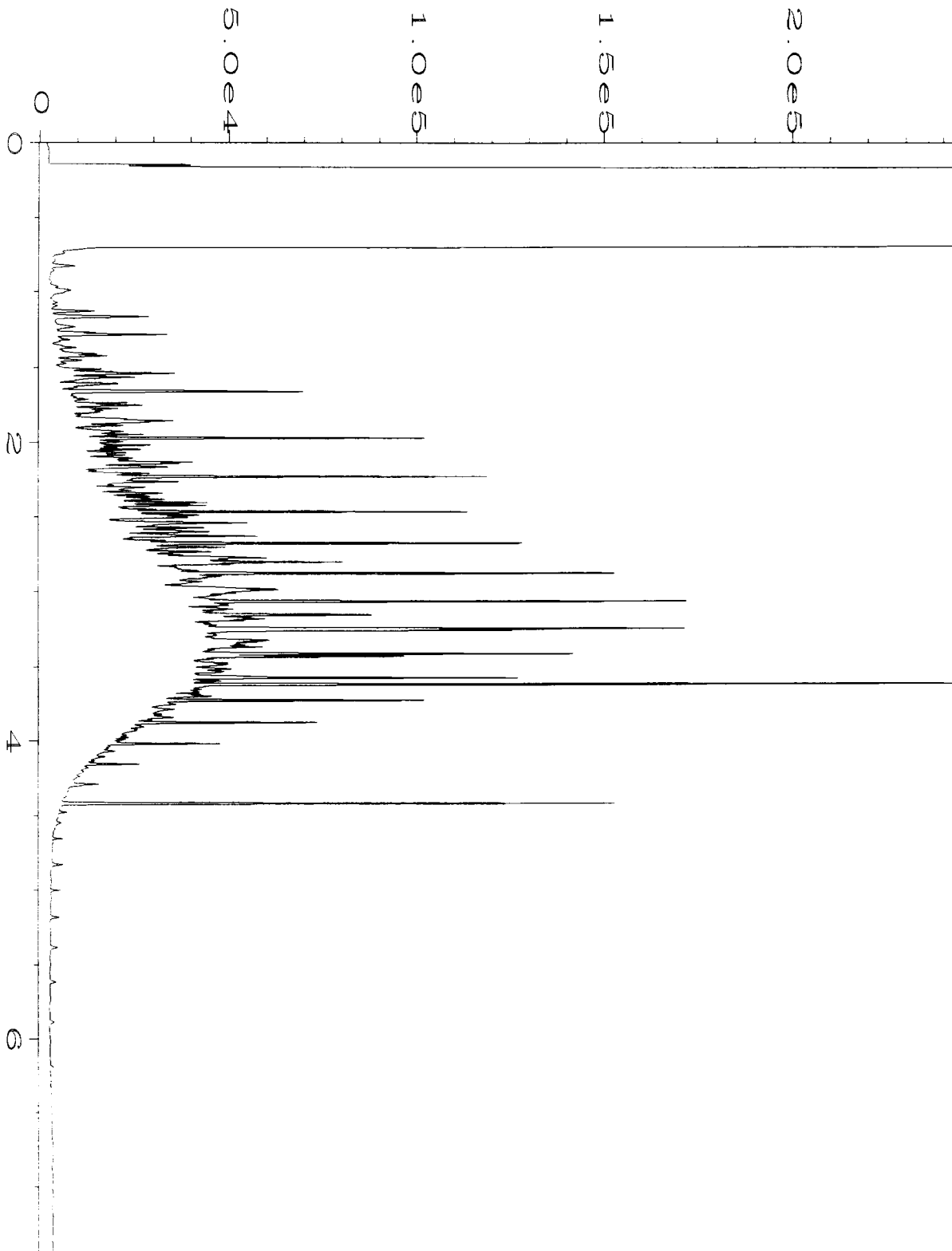
Data File Name	: C:\HPCHEM\4\DATA\04-19-16\037F0801.D	Page Number	: 1
Operator	: mwd1	Vial Number	: 37
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 604326-06	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Apr 16 04:40 PM	Analysis Method	: DX.MTH
Report Created on:	20 Apr 16 10:09 AM		



Data File Name	: C:\HPCHEM\4\DATA\04-19-16\038F0801.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 38
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 604326-07	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Apr 16 04:52 PM	Analysis Method	: DX.MTH
Report Created on:	20 Apr 16 10:10 AM		



Data File Name	: C:\HPCHEM\4\DATA\04-19-16\006F0301.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 6
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-769 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Apr 16 09:43 AM	Analysis Method	: DX.MTH
Report Created on:	20 Apr 16 10:10 AM		



Data File Name	: C:\HPCHEM\4\DATA\04-19-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Apr 16 06:37 AM	Analysis Method	: DX.MTH
Report Created on:	20 Apr 16 10:10 AM		

604326

SAMPLE CHAIN OF CUSTODY ME 04/18/16

B02 / VS2

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) 	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method	GEMS Y / N

Page # 1 or 1

TURNAROUND TIME

Standard (2 Weeks)  
 RUSH

Rush charges authorized by:

---

SAMPLE DISPOSAL

Dispose after 30 days  
Return samples  
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED				Notes
								NWTPH-DX	NWTPH-GX	BTEX by 8021B	CVOCs by 8260B	
VE41-N8-24	VE41-N8	24'	01A-E	4/15/16	1447	SOIL	5	X	X	X		
VE9-N6-31	VE9-N6	31'	02		1454		5	X	X	X		
VE8-N8-35	VE8-N8	35'	03		1502		5	X	X	X		
VE7-N7-34	VE7-N7	34'	04		1507		5	X	X	X		
VE6-N10-35	VE6-N10	35'	05		1515		5	X	X	X		
VE7-N11-35	VE7-N11	35'	06		1518		5	X	X	X		
VE6-N12-33	VE6-N12	33'	07		1522		5	X	X	X		
										Samples received at 4 °C		

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JONATHAN LOEFFLER	SOUNDEARTH	4/18/16	1633
Received by:	Eric Love	F&B	4/18/16	1633
Relinquished by:				
Received by:				

**APPENDIX D**  
**DEWATERING WELL BORING LOGS**



**Project:** Madison Taco Time  
**Project Number:** 1002-003-05  
**Logged by:** JSL  
**Date Started:** 02/06/16  
**Surface Conditions:** Exposed Soil  
**Well Location N/S:** --  
**Well Location E/W:** --  
**Reviewed by:** CCC  
**Date Completed:** 02/06/16

**BORING LOG** | **DW01**  
 DW01

**Site Address:** 1420 East Madison  
 Seattle, Washington

Water Depth At Time of Drilling 28 feet bgs  
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
0								Drill cuttings 0 to 5 feet below ground surface (bgs): Moist, silty SAND with some gravel, gray, no hydrocarbon odor (20-70-10).	
5								Drill cutting 5 to 10 feet bgs: Moist, silty SAND with some gravel, gray, no hydrocarbon odor (20-65-15).	
10								Drill cuttings 10 to 15 feet bgs: Moist, silty SAND with some gravel, gray, no hydrocarbon odor (20-65-15).	
15									

<b>Drilling Co./Driller:</b> Kulchin/Alan <b>Drilling Equipment:</b> Solid-stem auger rig <b>Sampler Type:</b> None <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 40.3 feet bgs <b>Total Well Depth:</b> 40.3 feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> 12/30 inches <b>Well Screened Interval:</b> 20.3-40.3 feet bgs <b>Screen Slot Size:</b> 0.03 inches <b>Filter Pack Used:</b> Pea Gravel <b>Surface Seal:</b> Soil <b>Annular Seal:</b> Soil <b>Monument Type:</b> None	<b>Notes/Comments:</b> Lithologic descriptions based on soil cuttings. Well installed 5 feet below Madison Street sidewalk on the southeast corner of the Property. Well completed with 3 feet of stick-up above ground surface.
<b>Page:</b>		<b>1 of 3</b>





**Project:** Madison Taco Time  
**Project Number:** 1002-003-05  
**Logged by:** JSL  
**Date Started:** 02/06/16  
**Surface Conditions:** Exposed Soil  
**Well Location N/S:** --  
**Well Location E/W:** --  
**Reviewed by:** CCC  
**Date Completed:** 02/06/16

**BORING LOG** | **DW01**  
 DW01

Site Address: 1420 East Madison  
 Seattle, Washington

Water Depth At Time of Drilling 28 feet bgs  
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
------------------	----------	------------	------------	------------	-----------	------------	---------	------------------------	-----------------------------

15								<b>Drill cuttings 15 to 20 feet bgs: Moist, silty SAND with some gravel, gray, no hydrocarbon odor (25-65-10).</b>	
20								<b>Drill cuttings 20 to 25 feet bgs: Moist to wet, silty SAND with some gravel, gray, no hydrocarbon odor (25-65-10).</b> <b>Wet soil lense from 21 to 22 feet bgs.</b>	
25								<b>Drill cuttings 25 to 28 feet bgs: Moist, silty SAND with some gravel, gray, no hydrocarbon odor (20-70-10).</b>	
30								<b>Wet at 28 feet bgs.</b> <b>Drill cuttings 28 to 30 feet bgs: Wet, SAND with some silt, gray, no hydrocarbon odor (10-90-0).</b>	

<b>Drilling Co./Driller:</b> Kulchin/Alan <b>Drilling Equipment:</b> Solid-stem auger rig <b>Sampler Type:</b> None <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 40.3 feet bgs <b>Total Well Depth:</b> 40.3 feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> 12/30 inches <b>Well Screened Interval:</b> 20.3-40.3 feet bgs <b>Screen Slot Size:</b> 0.03 inches <b>Filter Pack Used:</b> Pea Gravel <b>Surface Seal:</b> Soil <b>Annular Seal:</b> Soil <b>Monument Type:</b> None	<b>Notes/Comments:</b> Lithologic descriptions based on soil cuttings. Well installed 5 feet below Madison Street sidewalk on the southeast corner of the Property. Well completed with 3 feet of stick-up above ground surface.
<b>Page:</b>		<b>2 of 3</b>



**Project:** Madison Taco Time  
**Project Number:** 1002-003-05  
**Logged by:** JSL  
**Date Started:** 02/06/16  
**Surface Conditions:** Exposed Soil  
**Well Location N/S:** --  
**Well Location E/W:** --  
**Reviewed by:** CCC  
**Date Completed:** 02/06/16

**BORING LOG** | **DW01**  
 DW01

Site Address: 1420 East Madison  
 Seattle, Washington

Water Depth At Time of Drilling 28 feet bgs  
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
30								Drill cuttings 30 to 35 feet bgs: Wet, SAND with some silt, gray, no hydrocarbon odor (15-85-0).	
35							Drill cuttings 35 to 40 feet bgs: Wet, SAND with some silt, gray, no hydrocarbon odor (15-85-0).		
40							Boring terminated at 40.3 feet bgs. Completed as twelve-inch-diameter dewatering well DW01 to a depth of 40.3 feet bgs, screened from 20.3 to 40.3 feet bgs with pea gravel from 16 to 40.3 feet bgs, native soil seal from 0 to 16 feet bgs, and finished with three feet of stick-up above ground surface.		
45									

**Drilling Co./Driller:** Kulchin/Alan  
**Drilling Equipment:** Solid-stem auger rig  
**Sampler Type:** None  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 40.3 feet bgs  
**Total Well Depth:** 40.3 feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** 12/30 inches  
**Well Screened Interval:** 20.3-40.3 feet bgs  
**Screen Slot Size:** 0.03 inches  
**Filter Pack Used:** Pea Gravel  
**Surface Seal:** Soil  
**Annular Seal:** Soil  
**Monument Type:** None

**Notes/Comments:**  
 Lithologic descriptions based on soil cuttings. Well installed 5 feet below Madison Street sidewalk on the southeast corner of the Property. Well completed with 3 feet of stick-up above ground surface.



**Project:** Madison Taco Time  
**Project Number:** 1002-003-05  
**Logged by:** JSL  
**Date Started:** 02/06/16  
**Surface Conditions:** Exposed Soil  
**Well Location N/S:** --  
**Well Location E/W:** --  
**Reviewed by:** CCC  
**Date Completed:** 02/06/16

**BORING LOG** | **DW02**  
 DW02

**Site Address:** 1420 East Madison  
 Seattle, Washington

Water Depth At Time of Drilling 31 feet bgs  
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
0								Drill cuttings 0 to 4 feet below ground surface (bgs): Moist, silty SAND with some gravel, numerous brick fragments and organic debris, brown, no hydrocarbon odor (25-65-10) (FILL).	
5								Drill cutting 4 to 10 feet bgs: Moist, silty SAND with some gravel, gray, no hydrocarbon odor (20-70-10).	
10								Drill cuttings 10 to 15 feet bgs: Moist, silty SAND with some gravel, gray, no hydrocarbon odor (20-70-10).	
15									

**Drilling Co./Driller:** Kulchin/Alan  
**Drilling Equipment:** Solid-stem auger rig  
**Sampler Type:** None  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 40 feet bgs  
**Total Well Depth:** 40 feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** 12/30 inches  
**Well Screened Interval:** 20-40 feet bgs  
**Screen Slot Size:** 0.03 inches  
**Filter Pack Used:** Pea Gravel  
**Surface Seal:** Soil  
**Annular Seal:** Soil  
**Monument Type:** None

**Notes/Comments:**  
 Lithologic descriptions based on soil cuttings. Well installed 4 feet below Madison Street sidewalk on the southeast corner of the Property. Well completed with 3 feet of stick-up above ground surface.



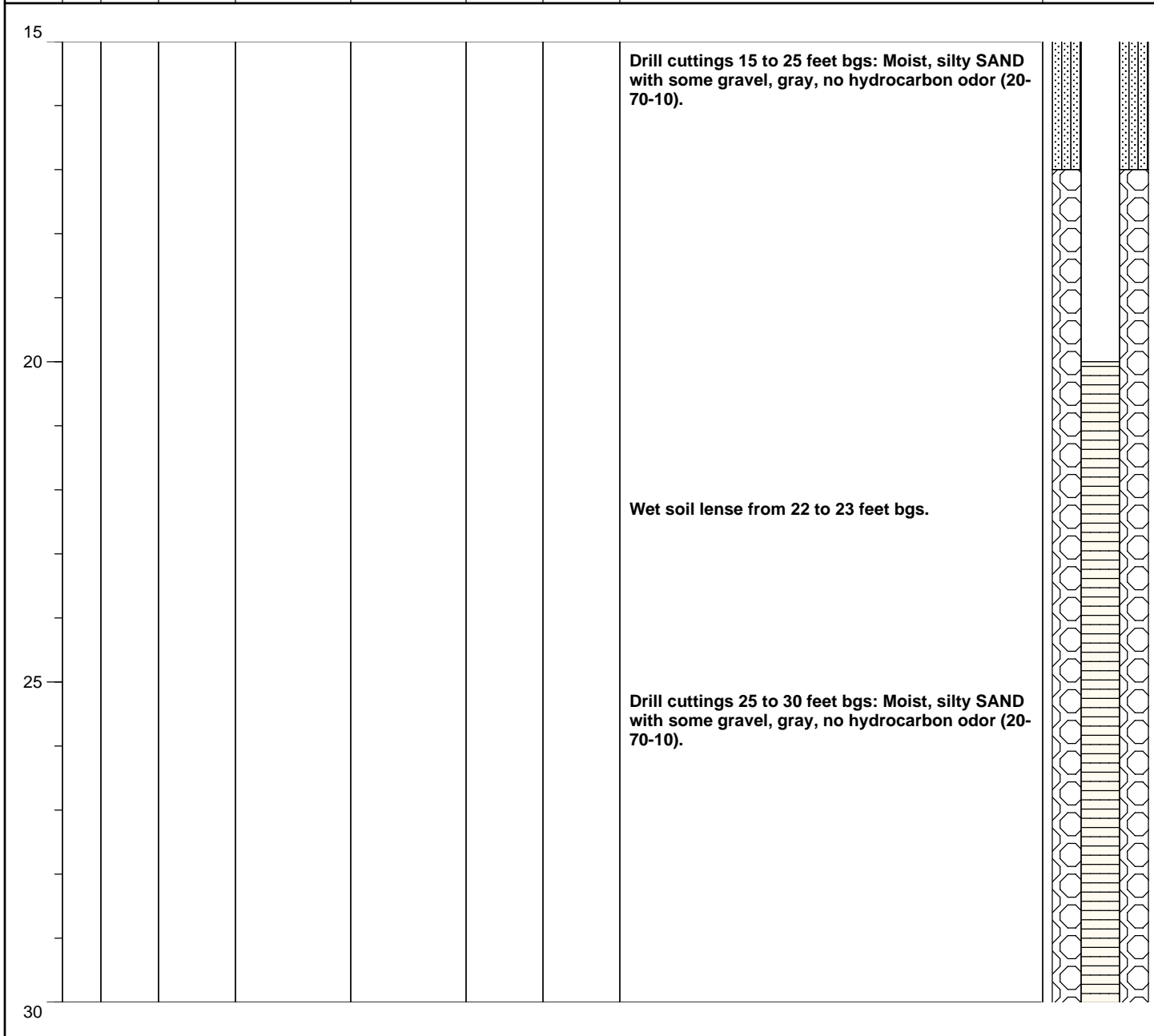
**Project:** Madison Taco Time  
**Project Number:** 1002-003-05  
**Logged by:** JSL  
**Date Started:** 02/06/16  
**Surface Conditions:** Exposed Soil  
**Well Location N/S:** --  
**Well Location E/W:** --  
**Reviewed by:** CCC  
**Date Completed:** 02/06/16

**BORING LOG** | **DW02**  
 DW02

**Site Address:** 1420 East Madison  
 Seattle, Washington

Water Depth At Time of Drilling 31 feet bgs  
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
------------------	----------	------------	------------	------------	-----------	------------	---------	------------------------	-----------------------------



<b>Drilling Co./Driller:</b> Kulchin/Alan <b>Drilling Equipment:</b> Solid-stem auger rig <b>Sampler Type:</b> None <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 40 feet bgs <b>Total Well Depth:</b> 40 feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> 12/30 inches <b>Well Screened Interval:</b> 20-40 feet bgs <b>Screen Slot Size:</b> 0.03 inches <b>Filter Pack Used:</b> Pea Gravel <b>Surface Seal:</b> Soil <b>Annular Seal:</b> Soil <b>Monument Type:</b> None	<b>Notes/Comments:</b> Lithologic descriptions based on soil cuttings. Well installed 4 feet below Madison Street sidewalk on the southeast corner of the Property. Well completed with 3 feet of stick-up above ground surface.
<b>Page:</b>		<b>2 of 3</b>



**Project:** Madison Taco Time  
**Project Number:** 1002-003-05  
**Logged by:** JSL  
**Date Started:** 02/06/16  
**Surface Conditions:** Exposed Soil  
**Well Location N/S:** --  
**Well Location E/W:** --  
**Reviewed by:** CCC  
**Date Completed:** 02/06/16

**BORING LOG** | **DW02**  
 DW02

**Site Address:** 1420 East Madison  
 Seattle, Washington

Water Depth At Time of Drilling 31 feet bgs  
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
30								Drill cuttings 30 to 35 feet bgs: Wet, SAND with some silt, gray, no hydrocarbon odor (10-90-0).	
35								Drill cuttings 35 to 40 feet bgs: Wet, SAND with some silt, gray, no hydrocarbon odor (10-90-0).	
40								Boring terminated at 40 feet bgs. Completed as twelve-inch-diameter dewatering well DW02 to a depth of 40 feet bgs, screened from 20 to 40 feet bgs with pea gravel from 17 to 40 feet bgs, native soil seal from 0 to 17 feet bgs, and finished with three feet of stick-up above ground surface.	
45									

**Drilling Co./Driller:** Kulchin/Alan  
**Drilling Equipment:** Solid-stem auger rig  
**Sampler Type:** None  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 40 feet bgs  
**Total Well Depth:** 40 feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** 12/30 inches  
**Well Screened Interval:** 20-40 feet bgs  
**Screen Slot Size:** 0.03 inches  
**Filter Pack Used:** Pea Gravel  
**Surface Seal:** Soil  
**Annular Seal:** Soil  
**Monument Type:** None

**Notes/Comments:**  
 Lithologic descriptions based on soil cuttings. Well installed 4 feet below Madison Street sidewalk on the southeast corner of the Property. Well completed with 3 feet of stick-up above ground surface.



**Project:** Madison Taco Time  
**Project Number:** 1002-003-05  
**Logged by:** JSL  
**Date Started:** 02/06/16  
**Surface Conditions:** Exposed Soil  
**Well Location N/S:** --  
**Well Location E/W:** --  
**Reviewed by:** CCC  
**Date Completed:** 02/06/16

**BORING LOG** | **DW03**  
 DW03

**Site Address:** 1420 East Madison  
 Seattle, Washington

Water Depth At Time of Drilling -- feet bgs  
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
------------------	----------	------------	------------	------------	-----------	------------	---------	------------------------	-----------------------------

0								<p>Drill cuttings 0 to 4 feet below ground surface (bgs): Moist, silty SAND with some gravel, numerous brick fragments and organic debris, dark brown, no hydrocarbon odor (40-50-10) (FILL).</p>	
5								<p>Drill cutting 4 to 10 feet bgs: Moist, silty SAND with some gravel, gray, no hydrocarbon odor (25-60-15).</p>	
10								<p>Drill cuttings 10 to 15 feet bgs: Moist, silty SAND with some gravel, gray, no hydrocarbon odor (20-70-10).</p>	
15									

<b>Drilling Co./Driller:</b> Kulchin/Alan <b>Drilling Equipment:</b> Solid-stem auger rig <b>Sampler Type:</b> None <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 40 feet bgs <b>Total Well Depth:</b> 40 feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> 12/30 inches <b>Well Screened Interval:</b> 20-40 feet bgs <b>Screen Slot Size:</b> 0.03 inches <b>Filter Pack Used:</b> Pea Gravel <b>Surface Seal:</b> Soil <b>Annular Seal:</b> Soil <b>Monument Type:</b> None	<b>Notes/Comments:</b> Lithologic descriptions based on soil cuttings. Well installed 4 feet below Madison Street sidewalk on the southeast corner of the Property. Driller noted petroleum odor in borehole during pouring of filter-pack.
<b>Page:</b>		<b>1 of 3</b>



**Project:** Madison Taco Time  
**Project Number:** 1002-003-05  
**Logged by:** JSL  
**Date Started:** 02/06/16  
**Surface Conditions:** Exposed Soil  
**Well Location N/S:** --  
**Well Location E/W:** --  
**Reviewed by:** CCC  
**Date Completed:** 02/06/16

**BORING LOG** | **DW03**  
 DW03

Site Address: 1420 East Madison  
 Seattle, Washington

Water Depth At Time of Drilling -- feet bgs  
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
------------------	----------	------------	------------	------------	-----------	------------	---------	------------------------	-----------------------------

15								<b>Drill cuttings 15 to 20 feet bgs: Moist, silty SAND with some gravel, gray, no hydrocarbon odor (20-70-10).</b>	
20								<b>Drill cutting 20 to 25 feet bgs: Moist, SAND with some silt and gravel, gray, no hydrocarbon odor (10-80-10).</b>	
25								<b>Drill cuttings 25 to 30 feet bgs: Moist to wet, SAND with some silt, gray, no hydrocarbon odor (10-90-0).</b>	
30									

<b>Drilling Co./Driller:</b> Kulchin/Alan <b>Drilling Equipment:</b> Solid-stem auger rig <b>Sampler Type:</b> None <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 40 feet bgs <b>Total Well Depth:</b> 40 feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> 12/30 inches <b>Well Screened Interval:</b> 20-40 feet bgs <b>Screen Slot Size:</b> 0.03 inches <b>Filter Pack Used:</b> Pea Gravel <b>Surface Seal:</b> Soil <b>Annular Seal:</b> Soil <b>Monument Type:</b> None	<b>Notes/Comments:</b> Lithologic descriptions based on soil cuttings. Well installed 4 feet below Madison Street sidewalk on the southeast corner of the Property. Driller noted petroleum odor in borehole during pouring of filter-pack.
<b>Page:</b>		<b>2 of 3</b>



**Project:** Madison Taco Time  
**Project Number:** 1002-003-05  
**Logged by:** JSL  
**Date Started:** 02/06/16  
**Surface Conditions:** Exposed Soil  
**Well Location N/S:** --  
**Well Location E/W:** --  
**Reviewed by:** CCC  
**Date Completed:** 02/06/16

**BORING LOG** | **DW03**  
 DW03

**Site Address:** 1420 East Madison  
 Seattle, Washington

Water Depth At Time of Drilling -- feet bgs  
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
30								Drill cuttings 30 to 40 feet bgs: Moist, SAND with some silt, gray, no hydrocarbon odor (10-90-0).	
35									
40								Boring terminated at 40 feet bgs. Completed as twelve-inch-diameter dewatering well DW03 to a depth of 40 feet bgs, screened from 20 to 40 feet bgs with pea gravel from 17 to 40 feet bgs, native soil seal from 0 to 17 feet bgs, and finished with two feet of stick-up above ground surface.	
45									

**Drilling Co./Driller:** Kulchin/Alan  
**Drilling Equipment:** Solid-stem auger rig  
**Sampler Type:** None  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 40 feet bgs  
**Total Well Depth:** 40 feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** 12/30 inches  
**Well Screened Interval:** 20-40 feet bgs  
**Screen Slot Size:** 0.03 inches  
**Filter Pack Used:** Pea Gravel  
**Surface Seal:** Soil  
**Annular Seal:** Soil  
**Monument Type:** None

**Notes/Comments:**  
 Lithologic descriptions based on soil cuttings. Well installed 4 feet below Madison Street sidewalk on the southeast corner of the Property. Driller noted petroleum odor in borehole during pouring of filter-pack.





**Project:** Madison Taco Time  
**Project Number:** 1002-003-05  
**Logged by:** AFH  
**Date Started:** 02/08/16  
**Surface Conditions:** Exposed Soil  
**Well Location N/S:** --  
**Well Location E/W:** --  
**Reviewed by:** CCC  
**Date Completed:** 02/08/16

**BORING LOG** | **DW04**  
 DW04

**Site Address:** 1420 East Madison  
 Seattle, Washington

Water Depth At Time of Drilling 23 feet bgs  
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
0								Drill cuttings 0 to 5 feet below ground surface (bgs): Moist, silty SAND with some gravel, no hydrocarbon odor (20-65-15).	
5				0.0				Drill cutting 5 to 10 feet bgs: Moist, silty SAND with some gravel, no hydrocarbon odor (20-65-15).	
10				0.3				Drill cuttings 10 to 15 feet bgs: Moist, silty SAND with some gravel, gray, no hydrocarbon odor (20-65-15).	
15				0.2	DW04-15				

**Drilling Co./Driller:** Kulchin/Alan  
**Drilling Equipment:** Solid-stem auger rig  
**Sampler Type:** None  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 36 feet bgs  
**Total Well Depth:** 36 feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** 12/30 inches  
**Well Screened Interval:** 16-36 feet bgs  
**Screen Slot Size:** 0.03 inches  
**Filter Pack Used:** Pea Gravel  
**Surface Seal:** Soil  
**Annular Seal:** Soil  
**Monument Type:** None

**Notes/Comments:**  
 Lithologic descriptions based on soil cuttings. Well completed with 2.5 feet of stick-up above ground surface.



**Project:** Madison Taco Time  
**Project Number:** 1002-003-05  
**Logged by:** AFH  
**Date Started:** 02/08/16  
**Surface Conditions:** Exposed Soil  
**Well Location N/S:** --  
**Well Location E/W:** --  
**Reviewed by:** CCC  
**Date Completed:** 02/08/16

**BORING LOG** | **DW04**  
 DW04

**Site Address:** 1420 East Madison  
 Seattle, Washington

Water Depth At Time of Drilling 23 feet bgs  
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
15								<p><b>Drill cuttings 15 to 20 feet bgs: Moist, silty SAND with some gravel, no hydrocarbon odor (20-65-15).</b></p> <p><b>Drill cutting 20 to 25 feet bgs: Moist to wet, silty SAND with some gravel, light brown, no hydrocarbon odor (20-65-15).</b></p> <p><b>Soil cuttings become wet between 23 and 25 feet bgs.</b></p> <p><b>Drill cuttings 25 to 30 feet bgs: Wet, SAND with some silt and trace gravel, gray-brown, no hydrocarbon odor (15-80-5).</b></p>	
20			0.2						
25				0.4	DW04-25				
30				0.3					

**Drilling Co./Driller:** Kulchin/Alan  
**Drilling Equipment:** Solid-stem auger rig  
**Sampler Type:** None  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 36 feet bgs  
**Total Well Depth:** 36 feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** 12/30 inches  
**Well Screened Interval:** 16-36 feet bgs  
**Screen Slot Size:** 0.03 inches  
**Filter Pack Used:** Pea Gravel  
**Surface Seal:** Soil  
**Annular Seal:** Soil  
**Monument Type:** None

**Notes/Comments:**  
 Lithologic descriptions based on soil cuttings. Well completed with 2.5 feet of stick-up above ground surface.



**Project:** Madison Taco Time  
**Project Number:** 1002-003-05  
**Logged by:** AFH  
**Date Started:** 02/08/16  
**Surface Conditions:** Exposed Soil  
**Well Location N/S:** --  
**Well Location E/W:** --  
**Reviewed by:** CCC  
**Date Completed:** 02/08/16

**BORING LOG** | **DW04**  
 DW04

Site Address: 1420 East Madison  
 Seattle, Washington

Water Depth At Time of Drilling 23 feet bgs  
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Detail/ Water Depth
30								Drill cuttings 30 to 35 feet bgs: Wet, SAND with some silt, gray-brown, no hydrocarbon odor (15-85-0).	
35				0.5 0.4	DW04-35			Drill cuttings 35 to 36 feet bgs: Wet, SAND with some silt and trace gravel, gray-brown, no hydrocarbon odor (15-80-5).	
40								Boring terminated at 36 feet bgs. Completed as twelve-inch-diameter dewatering well DW04 to a depth of 36 feet bgs, screened from 16 to 36 feet bgs with pea gravel from 0 to 36 feet bgs, and finished with two and a half feet of stick-up above ground surface.	
45									

**Drilling Co./Driller:** Kulchin/Alan  
**Drilling Equipment:** Solid-stem auger rig  
**Sampler Type:** None  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 36 feet bgs  
**Total Well Depth:** 36 feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** 12/30 inches  
**Well Screened Interval:** 16-36 feet bgs  
**Screen Slot Size:** 0.03 inches  
**Filter Pack Used:** Pea Gravel  
**Surface Seal:** Soil  
**Annular Seal:** Soil  
**Monument Type:** None

**Notes/Comments:**  
 Lithologic descriptions based on soil cuttings. Well completed with 2.5 feet of stick-up above ground surface.

**APPENDIX E**  
**DEWATERING SYSTEM DRAINAGE AS-BUILT DESIGN**

**Subject:** SOG Additional Footing Drains and Waterproofing  
**Project:** Broadcast Apartments  
**Address:** 1420 East Madison  
Seattle WA 98122  
**Phone:**  
**To:** Trent Mummery  
1420 East Madison Street LLC  
**From:** Matt Sullivan  
W.G. Clark Construction Co.

**Fax:**

**Date:** Apr 22, 2016  
**Job:** 769  
**Required:** Apr 29, 2016  
**Estimated Cost Impact:**  
**Estimated Days**

**Co-**

**Contact:**

**Co-Author RFI**

**Reference:**

Location Document Returned to	Est. Cost Log Comment RFI Notice Sent	TBD
-------------------------------------	---	-----

**Request:**

Per Owner request, additional footing drains and waterproofing to be added at the SOG walls per the attached document.  
The footing drains and waterproofing are required based on water levels encountered during site excavation.

**Suggestion:**

**Answer:**  **Accept Suggestion**

**Answered By:**

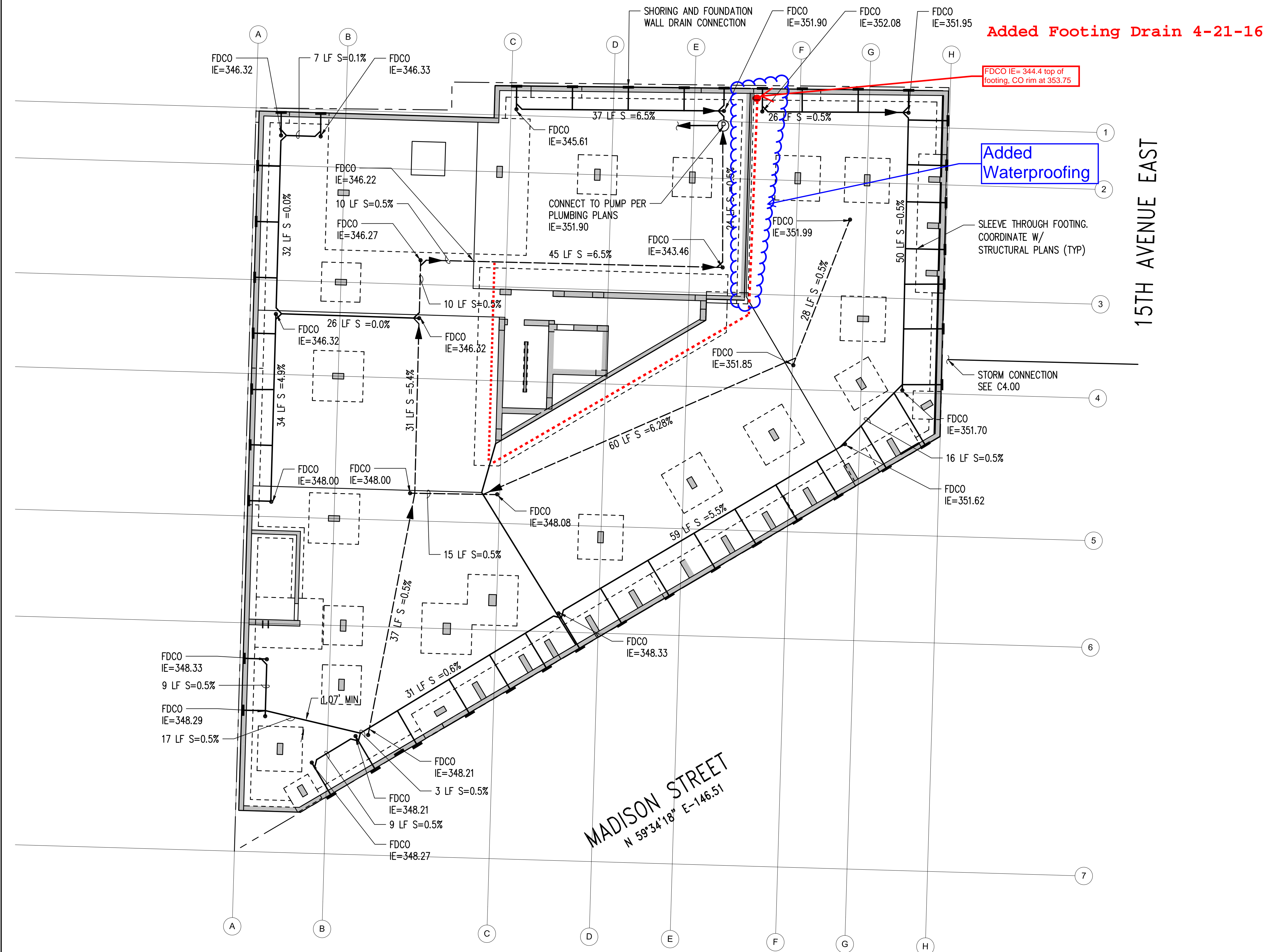
**Signed:** \_\_\_\_\_

**Date:**

**Distribution:**

Contact	Company
Jeff Oaklief	Johnson Architecture & Planning
Steve Johnson	Johnson Architecture & Planning
Veronica Park	Johnson Architecture & Planning
Greg Jasper	W.G. Clark Construction Co.
Jim Lindholm	W.G. Clark Construction Co.
Rob Fitzgerald	W.G. Clark Construction Co.

Jun 01, 2015 - 4:27pm - Theé&dc  
 Johnson Architects P. Seattle, 1/19/15, 12:45 PM  
 Z:\14400-114400\114270 (1420 E Madison)\CAD\Design\03-51Site\EMAD-C300-FD.dwg



**NOTES:**

- SEE SHORING FOR DESIGN OF SHORING SYSTEM.
- SUBSURFACE DRAIN SYSTEM IS INTENDED AS PRECAUTIONARY. ANY GROUNDWATER COLLECTED WILL BE INCIDENTAL AND IS EXPECTED AT LESS THAN 2 GPM. AS SUCH FLOW CONTROL IS NOT REQUIRED PER SPU DIRECTOR'S RULE 2010-13.
- THIS PLAN MEETS THE MINIMUM REQUIREMENTS FOR GROUNDWATER CONTROL AS RECOMMENDED IN THE GEOTECHNICAL ENGINEERING DESIGN REPORT BY AESI. THE CONTRACTOR SHALL VERIFY LOCATIONS WITH THE OWNER'S GEOTECHNICAL REPRESENTATIVE IN THE FIELD, AND ADJUST OR INCREASE THEM TO OBTAIN FULL COVERAGE FOR GROUNDWATER CONTROL.
- FOUNDATIONS, FOOTING, AND SHORING ARE SHOWN FOR GRAPHICAL REPRESENTATIONS ONLY. SEE STRUCTURAL AND SHORING FOR INFORMATION.
- INVERT ELEVATIONS FOR PIPES BELOW SLAB ON GRADE SHALL BE A MINIMUM 22 INCHES BELOW BOTTOM OF SLAB, UNLESS NOTED OTHERWISE.
- PIPE UNDER BUILDING SLABS SHALL BE SCHEDULE 40 PVC PER ASTM D 2665.
- CONTRACTOR SHALL PROVIDE SLEEVES, AS REQUIRED, FOR PVC PIPE CROSSING THROUGH OR UNDER CONCRETE WALLS AND FOUNDATION ELEMENTS. CONTRACTOR SHALL COORDINATE THE LOCATION OF SLEEVES WITH THE STRUCTURAL ENGINEER.
- TRENCHING AND BEDDING FOR SERVICE DRAINS SHALL BE PER COS STD PLANS 284 AND 285.
- ROOF DRAINS SHALL BE TIGHT LINED INTO A SEPARATE DRAINAGE SYSTEM BY PLUMBING.
- EXCAVATIONS FOR DRAINAGE SYSTEM THAT EXTEND BELOW THE 1:1 LOAD ZONE OF THE ADJACENT FOOTING SHALL BE BACKFILLED WITH CONTROLLED DENSITY FILL (CDF). SEE STRUCTURAL FOR FOOTING LOCATIONS AND SIZES.
- ALL STORM DRAIN CATCH BASIN AND MANHOLE OUTLET PIPES SHALL BE FITTED WITH OUTLET TRAPS PER COS STD PLAN 267.

**LEGEND**

- 4" SOLID WALL DRAIN COLLECTION PIPE
- - - 4" PERFORATED SCHEDULE 40 PVC COLLECTION PIPE
- FOUNDATION DRAIN CLEANOUT (FDCO)
- Ⓟ SUMP PUMP, SEE PLUMBING

**JOHNSON**  
 ARCHITECTURE  
 & PLANNING LLC  
 2124 THIRD AVENUE, SUITE 200  
 SEATTLE, WA 98121 206-448-7580

**1420 East Madison Street LLC**  
 1510 14th Ave., Ste B  
 Seattle WA 98122

**kpff**  
 1601 5th Avenue, Suite 1600  
 Seattle, WA 98101  
 206.622.5822  
 www.kpff.com

NO.	DESCRIPTION	DATE
<b>REVISIONS</b>		
PROJECT NO:	2014-06 PERMIT #6327097	
DATE:	02/03/2015	
DRAWN BY:	KWP	
APPROVAL:	TJE, RMK	



**Broadcast Apartments**  
 1420 East Madison St.  
 Seattle WA 98122

**FOUNDATION DRAINAGE PLAN**

GMP  
 SHEET NO:

**C3.00**

DPD APPROVAL STAMP:

  
 0 5 10 20  
 1 inch = 10 feet  




**From:** [Trent Mummery](#)  
**To:** [Matt Sullivan](#)  
**Subject:** RE: 769WGCMS RFI 0084 SOG Additional Footing Drains and Waterproofing  
**Date:** Wednesday, April 27, 2016 7:35:28 AM

---

Approved, thanks.

Trent Mummery  
The Metropolitan Companies  
206-234-6543  
[www.metropolitancos.com](http://www.metropolitancos.com)

---

**From:** Matt Sullivan [mailto:MSullivan@wgclark.com]  
**Sent:** Monday, April 25, 2016 10:16 AM  
**To:** Trent Mummery <trent@metropolitancos.com>  
**Subject:** FW: 769WGCMS RFI 0084 SOG Additional Footing Drains and Waterproofing

Trent,

RFI for the added SOG footing drains and waterproofing as discussed at last week's OAC.

Let me know if you have any questions.

Thanks,

**Matt Sullivan**

Project Engineer

**W.G. CLARK CONSTRUCTION CO.** | P (206)812-3854 C (206)330-6834 | [www.wgclark.com](http://www.wgclark.com)

---

**From:** Hikuu I/O [mailto:hikuuio@hikuucloud.com]  
**Sent:** Monday, April 25, 2016 10:15 AM  
**To:** Matt Sullivan <MSullivan@wgclark.com>  
**Subject:** 769WGCMS RFI 0084 SOG Additional Footing Drains and Waterproofing

**RFI 0084**

From	Matt Sullivan
To	Matt Sullivan
CC	
Project	Broadcast Apartments
Subject	SOG Additional Footing Drains and Waterproofing

**Subject:** SOG Additional Footing Drains and Waterproofing  
**Date Required:** 2016-05-02  
**Cost Impact:** Potentially  
**Cost Amount:**  
**Question:** Per Owner request, additional footing drains and waterproofing to be added at the SOG walls per the attached document.

The footing drains and waterproofing are required based on water levels encountered during site excavation.

**Suggestion:**

**Answer:**

[Click here](#) to access this RFI on-line, or simply reply to this email with your comments and any required attachments.

---

Note: Please ensure that you leave "**769WGCMS RFI 0084**" in the subject line of all emails you send related to this RFI. Replies must be **above** the original message. Attachments will also be accepted.

---



**APPENDIX F**  
**LABORATORY ANALYTICAL REPORTS FOR GROUNDWATER**

***Friedman & Bruya, Inc. #602242***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

February 23, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on February 15, 2016 from the SOU\_1002-003\_ 20160215, F&BI 602242 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0223R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 15, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160215, F&BI 602242 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
602242 -01	DW02-20160215
602242 -02	DW03-20160215

The 8260C trichloroethene laboratory control sample exceeded the acceptance criteria. This analyte was not detected in the samples, therefore the data were acceptable.

All other quality control requirements were acceptable.

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DW02-20160215	Client:	SoundEarth Strategies
Date Received:	02/15/16	Project:	F&BI 602242
Date Extracted:	02/16/16	Lab ID:	602242-01
Date Analyzed:	02/16/16	Data File:	021606.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	85	117
Toluene-d8	103	91	108
4-Bromofluorobenzene	102	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	5.7
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DW03-20160215	Client:	SoundEarth Strategies
Date Received:	02/15/16	Project:	F&BI 602242
Date Extracted:	02/16/16	Lab ID:	602242-02
Date Analyzed:	02/16/16	Data File:	021607.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	85	117
Toluene-d8	105	91	108
4-Bromofluorobenzene	101	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	2.3
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	F&BI 602242
Date Extracted:	02/16/16	Lab ID:	06-0251 mb
Date Analyzed:	02/16/16	Data File:	021605.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	85	117
Toluene-d8	103	91	108
4-Bromofluorobenzene	101	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/23/16

Date Received: 02/15/16

Project: SOU\_1002-003\_20160215, F&BI 602242

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 602242-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	114	61-139
Chloroethane	ug/L (ppb)	50	<1	110	55-149
1,1-Dichloroethene	ug/L (ppb)	50	<1	108	71-123
Methylene chloride	ug/L (ppb)	50	<5	113	61-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	106	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<1	104	79-113
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	106	63-126
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	5.7	96	70-119
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	115	75-121
Trichloroethene	ug/L (ppb)	50	<1	109	75-109
Tetrachloroethene	ug/L (ppb)	50	<1	98	72-113

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	50	112	109	70-119	3
Chloroethane	ug/L (ppb)	50	108	107	66-149	1
1,1-Dichloroethene	ug/L (ppb)	50	106	105	75-119	1
Methylene chloride	ug/L (ppb)	50	117	116	63-132	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	104	103	76-118	1
1,1-Dichloroethane	ug/L (ppb)	50	104	101	80-116	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	105	103	80-112	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	95	92	79-109	3
1,1,1-Trichloroethane	ug/L (ppb)	50	115	112	80-116	3
Trichloroethene	ug/L (ppb)	50	109 vo	106	77-108	3
Tetrachloroethene	ug/L (ppb)	50	97	96	78-109	1



# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

602242

**SAMPLE CHAIN OF CUSTODY**

ME 02/15/16

Page # 1 of 1 VI

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler  
 Company SoundEarth Strategies, Inc.  
 Address 2811 Fairview Avenue East, Suite 2000  
 City, State, ZIP Seattle, Washington 98102  
 Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) 	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method	GEMS Y / N

TURNAROUND TIME Standard (2 Weeks) X RUSH <u>24hr TAT</u> Rush charges authorized by: <u>Chuck Cacek</u>
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED				Notes
								NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	CVOCs by 8260B	
DW02-20160215	DW02	—	01 A-D	2/15/16	1434	H <sub>2</sub> O	4				X	
DW03-20160215	DW03	—	02 A-D	2/15/16	1525	H <sub>2</sub> O	4				X	

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JONATHAN LOEFFLER	SOUNDEARTH	2/15/16	1627
Received by:	VINH	FBI	2/15/16	1628
Relinquished by:				
Received by:		Samples received at	6	°C

***Friedman & Bruya, Inc. #604418***

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

April 29, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on April 25, 2016 from the SOU\_1002-003\_20160425, F&BI 604418 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Chuck Cacek, Jonathan Loeffler  
SOU0429R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 25, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160425, F&BI 604418 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID  
604418 -01

SoundEarth Strategies  
DW02-20160422

All quality control requirements were acceptable.

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	DW02-20160422	Client:	SoundEarth Strategies
Date Received:	04/25/16	Project:	SOU_1002-003_ 20160425
Date Extracted:	04/25/16	Lab ID:	604418-01
Date Analyzed:	04/25/16	Data File:	042520.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)
1,2-Dichloroethane (EDC)	<0.1

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1002-003_ 20160425
Date Extracted:	04/25/16	Lab ID:	06-0799 mb
Date Analyzed:	04/25/16	Data File:	042519.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)
1,2-Dichloroethane (EDC)	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/29/16

Date Received: 04/25/16

Project: SOU\_1002-003\_ 20160425, F&BI 604418

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR VOLATILES BY EPA METHOD 8260C SIM**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
1,2-Dichloroethane (EDC)	ug/L (ppb)	2	102	100	70-130	2



# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

604418

SAMPLE CHAIN OF CUSTODY

ME 04/25/16

Send Report to John Funderburk, Chuck Cacek; cc: Jonathan Loeffler
Company SoundEarth Strategies, Inc.
Address 2811 Fairview Avenue East, Suite 2000
City, State, ZIP Seattle, Washington 98102
Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) Jonathan Loeffler
PROJECT NAME/NO. MADISON TACO TIME 1002-003
REMARKS low level detection limit of 0.01 mg/kg for EDC. Direct Sparge Method

Page # 1 or 17
TURNAROUND TIME
Standard (2 Weeks)
RUSH 3-day TAT
Rush charges authorized by: Chuck Cacek
SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

Table with columns: Sample ID, Sample Location, Sample Depth, Lab ID, Date Sampled, Time Sampled, Matrix, # of jars, NWTPH-DX, NWTPH-Gx, BTEX by 8021B, CVOcs by 8260B, EDC by 8260C, Notes. Row 1: DW02-20160422, DW02, —, DA-C, 4/22/16, 1427, H2O, 4, X EDC by 8260C.

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Table with columns: SIGNATURE, PRINT NAME, COMPANY, DATE, TIME. Rows for Relinquished by (Jonathan Loeffler) and Received by (Nhan Phan). Includes 'Samples received at 2 °C'.

***Friedman & Bruya, Inc. #605181***

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

May 19, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on May 11, 2016 from the SOU\_1002-003-05\_20160511, F&BI 605181 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Chuck Cacek, Jonathan Loeffler  
SOU0519R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 11, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003-05\_ 20160511, F&BI 605181 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605181 -01	DW03-20160510
605181 -02	DW02-20160510
605181 -03	DW05-20160510

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DW03-20160510	Client:	SoundEarth Strategies
Date Received:	05/11/16	Project:	SOU_1002-003-05_ 20160511
Date Extracted:	05/11/16	Lab ID:	605181-01
Date Analyzed:	05/11/16	Data File:	051128.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	104	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DW02-20160510	Client:	SoundEarth Strategies
Date Received:	05/11/16	Project:	SOU_1002-003-05_20160511
Date Extracted:	05/11/16	Lab ID:	605181-02
Date Analyzed:	05/11/16	Data File:	051129.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DW05-20160510	Client:	SoundEarth Strategies
Date Received:	05/11/16	Project:	SOU_1002-003-05_20160511
Date Extracted:	05/11/16	Lab ID:	605181-03
Date Analyzed:	05/11/16	Data File:	051130.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	100	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1



# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1002-003-05_ 20160511
Date Extracted:	05/11/16	Lab ID:	06-909 mb
Date Analyzed:	05/11/16	Data File:	051111.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/19/16

Date Received: 05/11/16

Project: SOU\_1002-003-05\_ 20160511, F&BI 605181

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 605163-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	0.69	115	36-166
Chloroethane	ug/L (ppb)	50	<1	123	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	100	60-136
Methylene chloride	ug/L (ppb)	50	<5	104	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	102	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	101	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	103	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	94	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	98	60-146
Trichloroethene	ug/L (ppb)	50	<1	98	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	94	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	114	116	50-154	2
Chloroethane	ug/L (ppb)	50	127	126	58-146	1
1,1-Dichloroethene	ug/L (ppb)	50	104	105	67-136	1
Methylene chloride	ug/L (ppb)	50	113	112	39-148	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	108	108	68-128	0
1,1-Dichloroethane	ug/L (ppb)	50	107	106	79-121	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	110	109	80-123	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	99	73-132	0
1,1,1-Trichloroethane	ug/L (ppb)	50	104	105	83-130	1
Trichloroethene	ug/L (ppb)	50	104	104	80-120	0
Tetrachloroethene	ug/L (ppb)	50	97	98	76-121	1

# FRIEDMAN & BRUYA, INC.

---

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- fc - The compound is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the analyte is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

605181

SAMPLE CHAIN OF CUSTODY ME5/11/16

Page # 1 VI of 1

Send Report To John Funderburk, Chuck Cacek; cc: Jonathan Loeffler

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) 	
PROJECT NAME/NO. MADISON TACO TIME 1002-003-05	PO #
REMARKS	GEMS Y / N

TURNAROUND TIME Standard (2 Weeks) RUSH 3 day TAT Rush charges authorized by:
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED				Notes
								NWTPH-DX	NWTPH-Gx	BTEX by 8021B	CVOCs by 8260B	
DW03-20160510	DW03	---	01A	5/10/16	1945	H <sub>2</sub> O	4				X	
DW02-20160510	DW02	---	02	I	2000	I	4				X	
DW05-20160510	DW05	---	03	I	2030	I	4				X	
<del> 5/10/16</del>												

Samples received at 5 °C

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JON LOEFFLER	SOUNDEARTH	5/11/16	0938
Received by:	Nhan Phan	FERT	5/11/16	0938
Relinquished by:				
Received by:				

***Friedman & Bruya, Inc. #605325***

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

May 24, 2016

John Funderburk, Project Manager  
SoundEarth Strategies  
2811 Fairview Ave. East, Suite 2000  
Seattle, WA 98102

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on May 17, 2016 from the SOU\_1002-003\_20160517, F&BI 605325 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Chuck Cacek, Jonathan Loeffler  
SOU0524R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 17, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU\_1002-003\_ 20160517, F&BI 605325 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605325 -01	DW05-20160517
605325 -02	DW02-20160517
605325 -03	DW03-20160517

All quality control requirements were acceptable.

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DW05-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	SOU_1002-003_20160517, F&BI 605325
Date Extracted:	05/18/16	Lab ID:	605325-01
Date Analyzed:	05/18/16	Data File:	051817.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	108	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1



# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DW02-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	SOU_1002-003_20160517, F&BI 605325
Date Extracted:	05/18/16	Lab ID:	605325-02
Date Analyzed:	05/18/16	Data File:	051818.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	57	121
Toluene-d8	107	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DW03-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	SOU_1002-003_20160517, F&BI 605325
Date Extracted:	05/18/16	Lab ID:	605325-03
Date Analyzed:	05/18/16	Data File:	051819.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	107	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1002-003_ 20160517, F&BI 605325
Date Extracted:	05/18/16	Lab ID:	06-972 mb
Date Analyzed:	05/18/16	Data File:	051808.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	107	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/17/16

Project: SOU\_1002-003\_20160517, F&BI 605325

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR VOLATILES BY EPA METHOD 8260C**

Laboratory Code: 605307-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	96	36-166
Chloroethane	ug/L (ppb)	50	<1	109	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	91	60-136
Methylene chloride	ug/L (ppb)	50	<5	99	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	95	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	95	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	89	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	94	60-146
Trichloroethene	ug/L (ppb)	50	<1	96	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	93	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	109	111	50-154	2
Chloroethane	ug/L (ppb)	50	120	124	58-146	3
1,1-Dichloroethene	ug/L (ppb)	50	102	104	67-136	2
Methylene chloride	ug/L (ppb)	50	109	113	39-148	4
trans-1,2-Dichloroethene	ug/L (ppb)	50	103	107	68-128	4
1,1-Dichloroethane	ug/L (ppb)	50	103	106	79-121	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	107	111	80-123	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	96	100	73-132	4
1,1,1-Trichloroethane	ug/L (ppb)	50	102	105	83-130	3
Trichloroethene	ug/L (ppb)	50	103	106	80-120	3
Tetrachloroethene	ug/L (ppb)	50	92	97	76-121	5

# FRIEDMAN & BRUYA, INC.

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## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

**SAMPLE CHAIN OF CUSTODY** ME 5/17/16

V3 Page # 1 of 1

605325  
 Send Report To John Fonderburk, Chuck Cacek; cc: Jonathan Loeffler  
 Company SoundEarth Strategies, Inc.  
 Address 2811 Fairview Avenue East, Suite 2000  
 City, State, ZIP Seattle, Washington 98102  
 Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) 	
PROJECT NAME/NO. MADISON TACO TIME 1002-003	PO #
REMARKS - low level detection limit of - 0.01 mg/kg for EDC. Direct Spurge Method	GEMS Y / N

TURNAROUND TIME Standard (2 Weeks) *RUSH 3-day TAT Rush charges authorized by: Chuck Cacek
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	ANALYSES REQUESTED					Notes
								NWTPH-DX	NWTPH-Gx	BTEX by 8021B	CVOCs by 8260B's		
DW05-20160517	DW05	—	01A-D	5/17/16	1520	H2O	4				X		
DW02-20160517	DW02	—	02	↓	1536	↓	4				X		
DW03-20160517	DW03	—	03	↓	1605	↓	4				X		
5/17/16													
Samples received at <u>5</u> °C													

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	JONATHAN LOEFFLER	SOUNDEARTH	5/17/16	1811
Received by:	Jen Shuman	FB&I	↓	↓
Relinquished by:				
Received by:				