Received by hand from Suzanne Stumpf
(SoundEarth Strategies - contractor)
February 20, 2013

SoundEarth Strategies, Inc.
2811 Fairview Avenue East, Suite 2000
Seattle, Washington 98102

July 10, 2012

Mr. Mark Myers
Williams Kastner
601 Union Street, Suite 4100
Seattle, Washington 98111

SUBJECT: LIMITED SUBSURFACE INVESTIGATION
Arnold's Property
631 Queen Anne Avenue North
Seattle, Washington
Project Number: 0320-001-04

Dear Mr. Myers:

SoundEarth Strategies, Inc. (SoundEarth) has prepared this summary letter to document the results of the limited subsurface investigation activities completed by SoundEarth at the Property located at 631 Queen Anne Avenue North in Seattle, Washington (the Property). The primary objective of the limited subsurface investigation was to evaluate the current distribution of gasoline- and diesel-range petroleum hydrocarbons (GRPH and DRPH), benzene, toluene, ethylbenzene, and xylenes (BTEX) in soil beneath the Property subsequent to the remedial actions completed by others.

The following subsections provide a brief background of the Property, describe the field activities conducted to meet the objectives of the investigation, and provide the results of the limited subsurface investigation conducted by SoundEarth in May 2012.

Project Background

The project background and history of the Property presented below are from SAIC's *Final Remedial Investigation and Site Summary Report,* dated August 20, 2007.

A service station operated at the Property from approximately 1927 to 1993. The Property was originally leased to California Petroleum Corporation, which was acquired by the Texaco Corporation in 1929, at which time Texaco entered into a new lease of the Property. In 1954, Texaco purchased the Property and built a new service station. In 1977, the Arnold family purchased the Property but the service station continued operations under the Texaco brand name. The Property was sold by the Arnold family in 1989; however, the purchase and sales agreement was rescinded and the Property was returned to the Arnold family in 1993. Following the return of the Property to the Arnold family, the service station was demolished, seven of the underground storage tanks (USTs) were removed from the Property, and one UST was abandoned in place. Historical configurations of the former Texaco service station and UST locations are shown on Figure 1. The Property is currently occupied by a convenience store.

Releases associated with the historical fueling operations resulted in petroleum impacts to soil and groundwater beneath the Property. Numerous subsurface investigations were completed at the Property and downgradient properties from 1986 to 2004 to assess the extent of soil and groundwater contamination. The Washington State Department of Ecology (Ecology) oversaw remedial investigation activities at the Property from 1986 through 1997 and Texaco began remedial investigation activities in 1999. In 1993, Ecology oversaw the installation of a soil vapor extraction system (SVE) on the eastern and central portions of the Property, which operated intermittently until 1997. In 2003, Chevron Environmental Management Company (EMC) (Texaco was acquired by Chevron) modified and restarted the SVE system, which operated until 2005. A dual-phase extraction (DPE) system that was designed to address both on- and off-Property contamination was installed in 2006 by SAIC, Chevron EMC's consultant and operated through 2008. According to SAIC's *DPE Remediation System, First Quarter 2008 Operations Report,* the DPE system has reportedly removed approximately 45,000 pounds of petroleum hydrocarbons before its shutdown in April 2008.

Geologic and Hydrogeologic Conditions

The geologic and hydrogeologic conditions for the Property presented below are from SAIC's *Final Remedial Investigation and Site Summary Report* dated August 20, 2007.

Previous subsurface investigations indicated the Property is underlain by three major distinct lithologic units, which include the Vashon till, Esperance Sand, and Lawton Clay. The Vashon till units consists of a silty, gravelly sand layer that appears to be glacial till with some overlying fill. This unit is present near the surface at the northeast corner of the Property and tapers out to the southwest. Vashon till overlies the Esperance Sand below the western portion of the Property. The Esperance Sand unit is pervasive beneath the western and southwestern portion of the Property, but tapers out to the northeast. The Lawton Clay unit typically consists of more silt than clay and is encountered approximately 10 feet below ground surface (bgs) in the northeastern portion of the Property and slopes downward to the south-southwest to approximately 30 feet bgs.

Shallow groundwater occurs primarily in sand, or in sand with some silt, that overlies a very thick unit of clayey silt (Lawton Clay). The silt is encountered as shallow as 10 feet bgs in the northern areas of the Property and as deep as 25 feet bgs in the western areas of the Property. A zone of finer-grained soil is present along the western Property boundary, which produces locally perched groundwater. Depth to shallow groundwater typically ranges from 11 to 15 feet bgs on the eastern portion of the Property and 18 to 28 feet bgs on the western portion of the Property. The shallow water-bearing zone in this vicinity is not considered a potable source by the Ecology. The determination of groundwater beneath the Property as non-potable was confirmed in e-mail correspondence between SAIC and Ecology's case manager, Christopher Maurer, dated September 27, 2010.

Field Program

The following scope of work was completed in an effort to evaluate the current soil conditions beneath the Property:

- Preparing a health and safety plan in accordance with Washington State Model Toxics Control Act (MTCA) and Part 1910.120 of Title 29 of the Code of Federal Regulations before initiating field activities.

- Performing a utility locate at the proposed boring locations using a private utility location service and contacting the One-Call Center for utility location.
- Performing a ground-penetrating radar (GPR) survey at the Property.
- Advancing nine soil borings (P01 through P09) using push-probe drilling methods on the Property.
- Submitting select soil samples for laboratory analysis.
- Preparing this letter report.

A detailed description of the limited subsurface investigation field activities is provided in the following subsection.

Field Activities

On May 1, 2012, Underground Detection Services, Inc., of Seattle, Washington, completed the GPR and private utility location surveys in preparation for drilling activities. The GPR survey was conducted to identify whether remediation piping beneath the Property intersected with proposed boring locations. The GPR survey was inconclusive due to the density of the soil and site conditions.

The drilling activities were performed on May 2, 2012. Nine soil borings (P01 through P09) were advanced on the Property (Figure 1). Borings P01 through P09 were completed to assess the extent of residual soil contamination and evaluate the effectiveness of the SVE and DPE remediation systems that previously operated at the Property. Drilling activities were conducted under the supervision of a SoundEarth geologist. Borings P01 through P09 were advanced by Environmental Services Network of Olympia, Washington, using a limited-access direct-push drill rig.

Continuous soil samples were collected from each of the borings at approximately 4- to 5-foot intervals from ground surface to total depths of 24 feet bgs in borings P01 through P07 and P09, and to a total depth of 28 feet bgs in boring P08. Soil samples collected from each of the borings were described in accordance with the Unified Soil Classification System (USCS) and were screened in the field for evidence of potential contamination using visual observations, notations of odor, and by conducting headspace analysis using a photoionization detector (PID) to detect the presence of volatile organic vapors. The odor observations and PID values are presented in Table 1.

Headspace analysis was conducted by placing soil from each sample interval into a resealable plastic bag and allowing the sample to warm for a minimum of 30 seconds. The probe of the PID was then inserted into the bag, and the highest reading obtained over an approximately 30-second interval was recorded. The USCS symbol, visual and olfactory notations for the samples, PID readings, and/or the location of the sample proximate to the soil-groundwater interface were recorded on boring log forms, which are provided in Attachment A.

After the maximum depth was achieved in each sample interval, relatively undisturbed, discrete soil samples were collected from the soil boring and were transferred directly into laboratory-prepared sample containers. Selected soil samples were collected in accordance with U.S. Environmental Protection Agency (EPA) Method 5035A for sampling and analysis of low-level volatile organic

compounds (VOCs). Each container was labeled with a unique sample identification number, placed on ice in a cooler, and transported to Friedman & Bruya, Inc., of Seattle, Washington under standard chain-of-custody protocols for laboratory analysis. Selected soil samples were analyzed for GRPH, DRPH, and oil-range petroleum hydrocarbons (ORPH) by Northwest Total Petroleum Hydrocarbon (NWTPH) Method NWTPH-Gx and NWTPH-Dx, respectively; and VOCs, including benzene, toluene, ethylbenzene, and xylenes by EPA Method 8021B.

Non-dedicated field sampling equipment was cleaned and decontaminated between uses before leaving the Property. Soil cuttings and decontamination washwater were contained on the Property in labeled 16-gallon drums pending waste profiling and proper disposal.

FINDINGS

The findings of the limited subsurface investigation conducted at the Property in May 2012 are summarized below. The soil analytical results for the samples collected during the recent SoundEarth investigation are presented on Figure 2 and in Table 1. Laboratory analytical reports are included in Attachment B. SoundEarth reviewed and compiled the historical soil analytical results for the Property, which are presented on Figure 3.

- Soil encountered beneath the Property generally consists of dense, silty sand with gravel between 8 to 11 feet thick underlain by medium to fine sand with silt and gravel. As shown on Figures 4 and 5, dense silt with fine sand was encountered in some locations between 16 to 24 feet bgs (the maximum depth achieved in those borings). Groundwater was encountered between 11 to 12 feet bgs throughout the Property.
- Soil samples collected from borings P02 through P09 contained concentrations of GRPH above the MTCA Method A cleanup level of 30 milligrams per kilogram (mg/kg). The highest concentration of GRPH detected was 2,500 mg/kg in boring P08 at a depth of 14 feet. With the exception of two shallow soil samples collected from borings P05 and P07, concentrations of GRPH that exceeded the MTCA Method A cleanup level were only encountered in soil samples collected near the soil-groundwater interface at an average depth of 11 feet bgs or within the saturated zone.
- Benzene was detected in soil collected from borings P03 through P08 at concentrations exceeding the MTCA Method A cleanup level of 0.03 mg/kg. The highest concentration of benzene detected was 2.5 mg/kg in soil collected from boring P08 at a depth of 14 feet. With the exception of two shallow soil samples collected from borings P05 and P07, concentrations of benzene that exceeded the MTCA Method A cleanup level were only encountered in soil samples collected near the soil-groundwater interface or within the saturated zone.
- The concentrations of ethylbenzene and total xylenes exceeded their respective MTCA Method A cleanup levels in soil collected from boring P08 at a depth of 14 feet bgs.
- The concentrations of toluene, ethylbenzene, and total xylenes exceeded their respective MTCA Method A cleanup levels in soil collected from boring P09 at a depth of 15 feet bgs.

- DRPH was detected in soil samples collected from borings P02 through P09, but only the soil samples collected from borings, P04, P07, and P08 contained DRPH concentrations that exceeded the MTCA Method A cleanup level of 2,000 mg/kg. The highest concentration of DRPH was 3,300 mg/kg in soil collected from boring P07 at a depth of 20 feet. Each of the soil samples that contained DRPH concentrations exceeding the MTCA Method A cleanup level were collected near the soil-groundwater interface or within the saturated zone.

- Concentrations of ORPH were below the laboratory reporting limit in soil samples collected from borings P01 through P04 and P06 through P09. The soil sample collected from boring P05 at a depth of 4 feet contained a concentration of ORPH that exceeded the laboratory reporting limit, but was below the MTCA Method A cleanup level of 2,000 mg/kg.

- Fill material that included wood, rotten logs, brick, and asphalt fragments was encountered in borings P05 through P09 at approximately 7 to 8 feet bgs and up to 2 feet in thickness. In boring P08, a rotten log was encountered from ground surface to 8 feet bgs.

DATA QUALITY REVIEW

SoundEarth reviewed laboratory quality control data provided with the Friedman & Bruya, Inc. reports to evaluate the usability of the analytical results. SoundEarth reviewed the accuracy and precision data in addition to sample holding times, laboratory method blanks, and laboratory method detection limits, where applicable. DRPH concentrations detected in the soil samples collected from borings P03 and P06 at 4 and 14 feet bgs, respectively, were flagged by the laboratory because their chromatograms resembled another fuel type. The laboratory also flagged the reported benzene concentration in soil samples collected 15 feet bgs in borings P03 and P09 because the results were below normal reporting limits; the value reported is an estimate. All other quality control criteria are acceptable for the samples; therefore, no action is required and analytical results are usable to meet the project objectives. Copies of the laboratory analytical reports are provided in Attachment B.

CONCLUSIONS

Previous investigations conducted by others at the Property have revealed petroleum-contaminated soil beneath much of the Property. The results of the limited subsurface investigation completed in May 2012 indicate that concentrations of GRPH, DRPH, and/or BTEX exceeding their respective MTCA Method A cleanup levels remain in soil beneath approximately two thirds of the Property (Figure 2). The highest concentrations of GRPH, DRPH, and BTEX were detected in soil samples collected near or beneath the soil-groundwater interface, which was encountered at an average depth of approximately 11 feet bgs. The thickness of petroleum-contaminated soil increases from approximately 5 feet beneath the eastern portion of the Property to approximately 15 feet beneath the southwestern portion of the Property (Figures 4 and 5). Petroleum contamination in shallow soil (i.e., less than 10 feet bgs) above the soil-groundwater interface was only encountered in borings P05 and P07. The results of the limited subsurface investigation will be used to generate a preliminary remedial excavation cost estimate to evaluate residual petroleum hydrocarbons beneath the Property.

LIMITATIONS

The findings and conclusions documented in this report have been prepared for the specific application to this project and have been developed in a manner consistent with that level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in the area. Sampling was conducted at widely spaced boring locations and depths, and a potential always remains for unknown, unidentified, or unforeseen subsurface contamination to exist on portions of the Property that were not accessed in the course of this investigation. No warranty, expressed or implied, is made. This report is intended for the exclusive use of the Williams Kastner and Liberty Mutual Insurance Company.

CLOSING

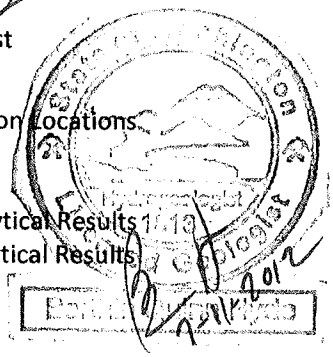
SoundEarth appreciates the opportunity to work with you on this project. Please contact the undersigned at (206) 306-1900 if you have any questions or require additional information.

Respectfully,

SoundEarth Strategies, Inc.

Suzy Stumpf, PE
Associate Engineer

Berthin Q Hyde, LHG
Principal Hydrogeologist



Attachments: Figure 1, Exploration Location Plan with Geologic Cross Section Locations
Figure 2, Soil Analytical Results (May 2, 2012)
Figure 3, Historical Soil Analytical Data
Figure 4, Cross Section A-A' with Current and Historical Analytical Results
Figure 5, Cross Section B-B' with Current and Historical Analytical Results
Table 1, Summary of Soil Analytical Results
A, Boring Logs
B, Laboratory Analytical Reports
Friedman & Bruya, Inc. #205047
Friedman & Bruya, Inc. #205047 (additional)
Friedman & Bruya, Inc. #205050

SES:mdb/hsc

FIGURES

7/6/2012

WEST ROY STREET

SIDEWALK

P.P.

STREET SIGN

A'

P01

P02

P03

P04

P05

P06

P07

P09

P08

B

B'

P.P.

SIDEWALK

DEL ROY APARTMENTS

RETAINING WALL

MANHATTAN EXPRESS CONVENIENCE STORE

FORMER GASOLINE SERVICE STATION (CIRCA 1954)

FORMER CANOPY ADDED 1964

FORMER UST 550 GALLONS

FORMER UST 5,000 GALLONS

FORMER UST 1,000 GALLONS

FORMER UST 500 GALLONS

FORMER UST 2,000 GALLONS

FORMER CANOPY ADDED 1964

FORMER WASH RACK

FORMER HOIST

FORMER GREASE PIT

FORMER LABOR SHOP

OLD ASARCO SEWER

RETAINING WALL

LIGHT POLE

A

MONTEREY APARTMENTS

LINDBERG APARTMENTS

QUEEN ANNE AVENUE NORTH

COUNTERBALANCE PARK

N

LEGEND

MW-24	MONITORING WELL
DPE-5	EXTRACTION WELL
DVP-1	VAPOR PROBE
RW-4	RECOVERY WELL
DB,SP & DP	SOIL BORING
P09	SOIL BORING (SOUNDEARTH 2012)
P.P.	POWER POLE
	REMEDIATION SYSTEM
	COUNTER_BALANCE STREET CAR TUNNELS
	PROPERTY BOUNDARY
	STREET CENTER LINE
GAS	GAS LINE
OHP	OVERHEAD POWER
SS	SEWER LINE
W	WATER LINE
x	FENCING
UST	UNDERGROUND STORAGE TANK
	CROSS SECTION LOCATION
SAIC	SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
SOUNDEARTH	SOUNDEARTH STRATEGIES, INC.

SITE FEATURES FROM SAIC'S FINAL REMEDIAL INVESTIGATION AND SITE SUMMARY REPORT, AUGUST 2007

SoundEarth Strategies
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DATE: 07/06/2012
DRAWN BY: JQC
CHECKED BY: SES
CAD FILE: 0320_001_04_ELP

PROJECT NAME: AMOLD'S PROPERTY
PROJECT NUMBER: 0320-001-04
STREET ADDRESS: 631 QUEEN ANNE AVENUE NORTH
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 10 20 40
APPROXIMATE SCALE IN FEET

FIGURE 1
EXPLORATION LOCATION PLAN WITH GEOLOGIC CROSS SECTION LOCATIONS

P:\0320 ARNOLD'S\0320-001-04\TECHNICAL\CAD\2012\0320_001_04_2012_ELP_F.DWG

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7/6/2012

WEST ROY STREET

Sample Location	Sample Depth	Analytical Results (milligrams per kilogram)						
		G	D	O	B	T	E	X
P06	7	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
	14	65	1,000	<250	0.036	0.22	0.64	1.5
	19	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
	24	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
MTCA Method A		100/30	2,000	2,000	0.03	7	6	9

Sample Location	Sample Depth	Analytical Results (milligrams per kilogram)						
		G	D	O	B	T	E	X
P03	4	17	67	<250	<0.02	<0.02	<0.02	<0.06
	11	110	1,800	<250	<0.02	<0.02	0.026	0.09
	15	590	1,500	<250	0.06	0.82	2.3	8.6
	20	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
	24	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
MTCA Method A		100/30	2,000	2,000	0.03	7	6	9

Sample Location	Sample Depth	Analytical Results (milligrams per kilogram)						
		G	D	O	B	T	E	X
P01	6	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
	11	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
	20	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
MTCA Method A		100/30	2,000	2,000	0.03	7	6	9

Sample Location	Sample Depth	Analytical Results (milligrams per kilogram)						
		G	D	O	B	T	E	X
P07	4	370	350	<250	0.13	0.77	3.0	2.7
	20	<2	3,300	<250	<0.02	<0.02	<0.02	<0.06
	24	3.4	<50	<250	<0.02	<0.02	<0.02	<0.06
MTCA Method A		100/30	2,000	2,000	0.03	7	6	9

DEL ROY APARTMENTS

RETAINING WALL

Sample Location	Sample Depth	Analytical Results (milligrams per kilogram)						
		G	D	O	B	T	E	X
P05	4	380	530	360	0.12	0.82	3.1	3.1
	20	2.5	<50	<250	<0.02	<0.02	<0.02	<0.06
	24	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
MTCA Method A		100/30	2,000	2,000	0.03	7	6	9

DPE-8/MW-22

Sample Location	Sample Depth	Analytical Results (milligrams per kilogram)						
		G	D	O	B	T	E	X
P09	12	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
	15	2,300	<50	<250	<0.02	18	16	27
	24	25	210	<250	<0.02	<0.02	<0.02	<0.06
MTCA Method A		100/30	2,000	2,000	0.03	7	6	9

Sample Location	Sample Depth	Analytical Results (milligrams per kilogram)						
		G	D	O	B	T	E	X
P02	8	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
	11	52	120	<250	<0.02	0.18	0.37	0.53
	20	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
MTCA Method A		100/30	2,000	2,000	0.03	7	6	9

Sample Location	Sample Depth	Analytical Results (milligrams per kilogram)						
		G	D	O	B	T	E	X
P04	8	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
	11	590	2,600	<250	0.60	1.8	2.0	4.6
	24	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
MTCA Method A		100/30	2,000	2,000	0.03	7	6	9

MANHATTAN EXPRESS CONVENIENCE STORE

RETAINING WALL

Sample Location	Sample Depth	Analytical Results (milligrams per kilogram)						
		G	D	O	B	T	E	X
P08	8	<2	<50	<250	<0.02	<0.02	<0.02	<0.06
	14	2,500	2,600	<250	2.5	6.4	26	160
	19	7.5	<50	<250	0.035	<0.02	<0.02	<0.06
	28	<2	<50	<250	0.14	<0.02	<0.02	<0.06
MTCA Method A		100/30	2,000	2,000	0.03	7	6	9

MONTEREY APARTMENTS

LINDBERG APARTMENTS

SIDEWALK

STREET SIGN

P.P.

LIGHT POLE

QUEEN ANNE AVENUE NORTH

N

LEGEND

MW-24	MONITORING WELL
DPE-5	EXTRACTION WELL
DVP-1	VAPOR PROBE
RW-4	RECOVERY WELL
DB,SP & DP	SOIL BORING
P09	SOIL BORING (SOUNDEARTH 2012)
P.P.	POWER POLE
	REMEDIATION SYSTEM
	COUNTER_BALANCE STREET CAR TUNNELS
	PROPERTY BOUNDARY
	STREET CENTER LINE
GAS	GAS LINE
OHP	OVERHEAD POWER
SS	SEWER LINE
W	WATER LINE
x	FENCING
UST	UNDERGROUND STORAGE TANK
D	DIESEL-RANGE PETROLEUM HYDROCARBONS
O	OIL-RANGE PETROLEUM HYDROCARBONS
G	GASOLINE-RANGE PETROLEUM HYDROCARBONS
B	BENZENE
E	ETHYLBENZENE
T	TOLUENE
X	TOTAL XYLENES
MTCA	WASHINGTON STATE MODEL TOXICS CONTROL ACT
RED	DENOTES CONCENTRATION EXCEEDS MTCA METHOD A CLEANUP LEVEL FOR SOIL
<	CONCENTRATION BELOW LABORATORY REPORTING LIMIT
SAIC	SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
SOUNDEARTH	SOUNDEARTH STRATEGIES, INC.

SITE FEATURES FROM SAIC'S FINAL REMEDIAL INVESTIGATION AND SITE SUMMARY REPORT, AUGUST 2007

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DATE: 07/06/2012
DRAWN BY: JQC
CHECKED BY: SES
CAD FILE: 0320_001_04_SD

PROJECT NAME: AMOLD'S PROPERTY
PROJECT NUMBER: 0320-001-04
STREET ADDRESS: 631 QUEEN ANNE AVENUE NORTH
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 10 20 40
APPROXIMATE SCALE IN FEET

FIGURE 2
SOIL ANALYTICAL RESULTS
(MAY 2, 2012)

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7/6/2012

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
DPE-6	17.5	140	420	<1.0	1.8	2.4	13
	20	96	360	<0.5	0.5	0.4	2.1
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
PIT-6	8	330	45	7.0	4.0	5.1	22
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
DP-4	20	90.9	18.4	0.131	0.248	0.851	3.34
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
DB-3	11.0	8.30	10.5	<0.030	<0.050	0.0602	0.176
	31.5	5.74	<10	0.0544	0.309	0.160	0.840
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
PIT-1	12	1,900	270	4.3	8.1	24	130
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
MW-24	9	<1.0	<0.3	<0.0005	<0.001	<0.001	<0.001
	16	11	6.3	0.060	0.082	0.077	0.4
	18.5	3,100	64	1.1	11	6.0	40
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
PIT-4	7	25	47	0.16	0.13	0.09	0.79
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
DP-6	22	7,750	88.7	33	242	83.7	369
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
DPE-7	11.0	440	2,400	<0.2	0.5	1.6	6
	20	1,400	–	<0.100	0.771	7.3	15.25
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
SP-1	19	100	88	0.09	0.3	0.6	3.6
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
DP-7	20	329	788	0.844	4.25	2.61	10.3
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
DPE-5	14	460	2,800	<0.3	<0.3	5.3	<1.5
	17	250	870	<0.5	<1.0	4.8	24
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
PIT-5	11	1,000	610	2.1	2	8.2	62
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
DP-2	14	<5.00	<10	0.0571	<0.0500	<0.0500	<0.100
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
PIT-9	6	17	67	0.35	0.12	0.16	0.72
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
PIT-8	11	1,100	600	1.1	ND	1.7	4.7
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
DP-1	16	<5.00	<10	<0.030	<0.050	0.0568	0.121
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
PIT-7	11	11,000	3,200	23	16	80	240
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
MW-13	14	<5.00	<10	<0.030	<0.050	<0.050	<0.100
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
PIT-10	11	4.4	34	0.18	ND	0.09	0.42
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
DP-3	12	1,140	1,060	2.39	2.01	10.3	20.3
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
PIT-11	11	4,800	4,000	51	16	65	190
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
PIT-3	12	19	36	ND	0.11	0.11	0.70
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
DP-5	14	8,160	1,200	17.4	98.2	97.2	569
MTCA Method A		100/30	2,000	0.03	7	6	9

Sample Location	Sample Depth (feet)	Analytical Results (milligrams per kilogram)					
		G	D	B	T	E	X
PIT-2	12	3.3	34	0.23	ND	0.03	0.12
MTCA Method A		100/30	2,000	0.03	7	6	9

WEST ROY STREET

DEL ROY APARTMENTS

MONTEREY APARTMENTS

SIDEWALK

STREET SIGN

P.P.

APPROXIMATE EXCAVATION BOUNDARY

MANHATTAN EXPRESS

RETAINING WALL

LIGHT POLE

QUEEN ANNE AVENUE NORTH

DB-3, DP-4, PIT-6, PIT-5, DP-2, PIT-9, PIT-8, DP-1, PIT-7, PIT-11, PIT-1, PIT-4, PIT-2, DP-5, DPE-6, DP-3, PIT-10, DB-2/MW-13, MW-24, DP-6, DPE-7, SP-1, PIT-3, DPE-8/MW-22, DP-7, DPE-5

LEGEND

MW-24	MONITORING WELL
DPE-5	EXTRACTION WELL
DVP-1	VAPOR PROBE
RW-4	RECOVERY WELL
DB,SP & DP	SOIL BORING
P09	SOIL BORING (SOUNDEARTH 2012)
PIT-1	EXCAVATION PIT
P.P.	POWER POLE
	REMEDIATION SYSTEM
	COUNTER_BALANCE STREET CAR TUNNELS
	PROPERTY BOUNDARY
	STREET CENTER LINE
GAS	GAS LINE
OHP	OVERHEAD POWER
SS	SEWER LINE
W	WATER LINE
x	FENCING
UST	UNDERGROUND STORAGE TANK
G	GASOLINE-RANGE PETROLEUM HYDROCARBONS
D	DIESEL-RANGE PETROLEUM HYDROCARBONS
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
MTCA	WASHINGTON STATE MODEL TOXICS CONTROL ACT
RED	DENOTES CONCENTRATION EXCEEDS MTCA METHOD A CLEANUP LEVEL FOR SOIL
<	CONCENTRATION BELOW LABORATORY REPORTING LIMIT
ND	NOT DETECTED
–	NOT ANALYZED
SAIC	SCIENCE APPLICATIONS INTERNATIONAL CORPORATION
SOUNDEARTH	SOUNDEARTH STRATEGIES, INC.

SITE FEATURES FROM SAIC'S FINAL REMEDIAL INVESTIGATION AND SITE SUMMARY REPORT, AUGUST 2007

SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

DATE: 07/06/2012
DRAWN BY: JQC
CHECKED BY: SES
CAD FILE: 0320_001_04_HSD

PROJECT NAME: AMOLD'S PROPERTY
PROJECT NUMBER: 0320-001-04
STREET ADDRESS: 631 QUEEN ANNE AVENUE NORTH
CITY, STATE: SEATTLE, WASHINGTON

REGION:

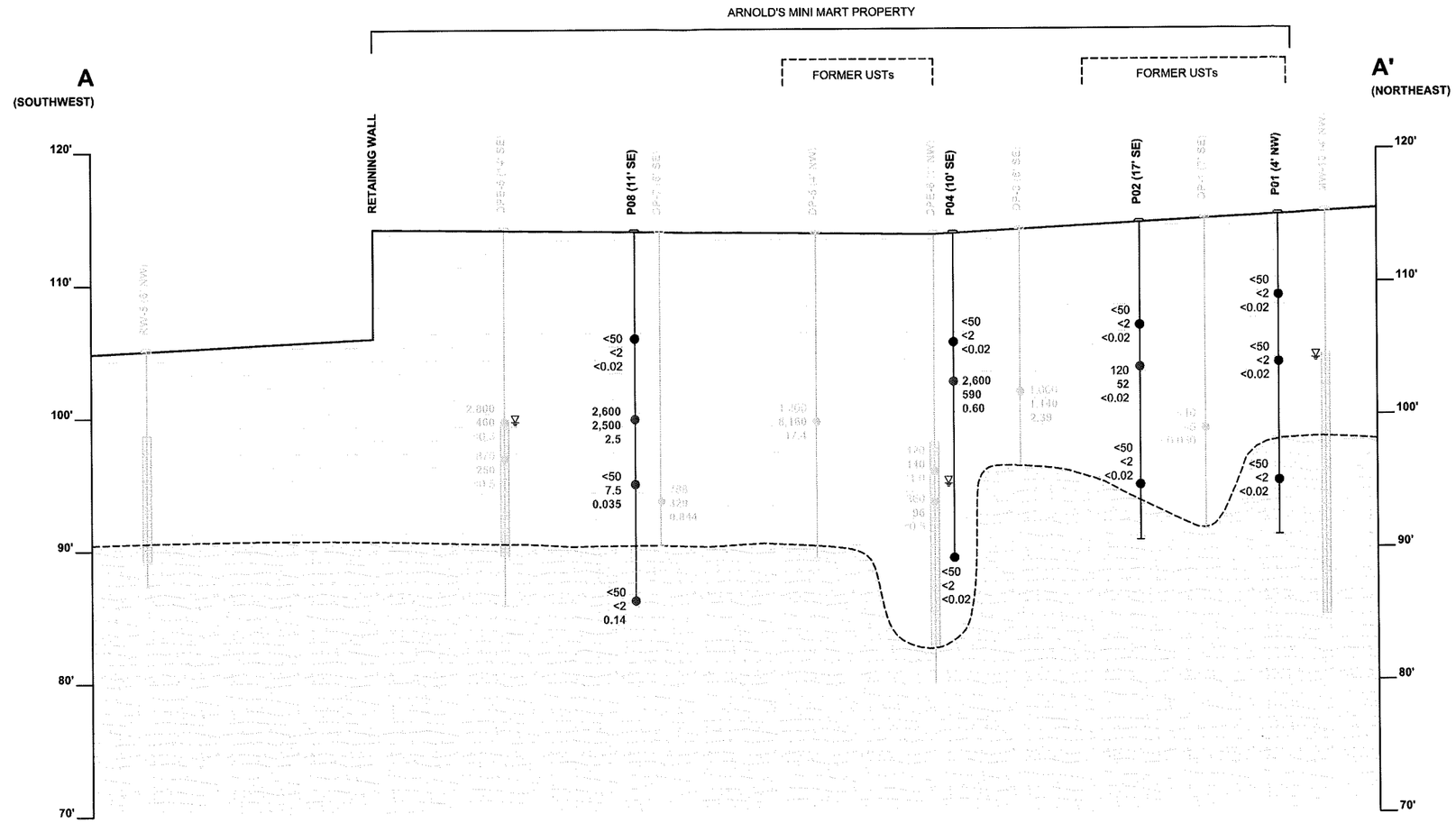
0 10 20 40
APPROXIMATE SCALE IN FEET

FIGURE 3
HISTORICAL SOIL ANALYTICAL DATA

P:\0320 ARNOLD'S\0320-001-04\TECHNICAL\CAD\2012\0320_001_04_2012 HSD F.DWG

WWW.SOUNDEARTHINC.COM

7/6/2012



LEGEND

(14' SE) OFFSET 14' SOUTHEAST MONITORING WELL

SCREEN INTERVAL

GROUNDWATER LEVEL (SAIC, JANUARY 2011)

SILTY SAND AND SAND

SILT AND CLAY

GEOLOGIC CONTACT

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN SOIL (mg/kg):

- CONCENTRATION BELOW MTCA METHOD A CLEANUP LEVEL
- CONCENTRATION ABOVE MTCA METHOD A CLEANUP LEVEL

2,800 DIESEL-RANGE PETROLEUM HYDROCARBONS
460 GASOLINE-RANGE PETROLEUM HYDROCARBONS
<0.3 BENZENE

UST	UNDERGROUND STORAGE TANK
mg/kg	MILLIGRAMS PER KILOGRAM
RED	DENOTES CONCENTRATIONS EXCEEDING MTCA METHOD A CLEANUP LEVELS IN SOIL
<	RESULT BELOW LABORATORY REPORTING LIMITS
MTCA	WASHINGTON STATE MODEL TOXICS CONTROL ACT
SAIC	SAIC ENERGY, ENVIRONMENT, AND INFRASTRUCTURE, LLC

SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

DATE: 07/06/12
DRAWN BY: NAC/JQC
CHECKED BY: PJK/DMM
CAD FILE: 0320_001_04_2012_XAA

PROJECT NAME: AMOLD'S PROPERTY
PROJECT NUMBER: 0320-001-04
STREET ADDRESS: 631 QUEEN ANNE AVENUE NORTH
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 10 20 40
APPROXIMATE HORIZONTAL SCALE IN FEET

FIGURE 4
CROSS SECTION A-A' WITH CURRENT AND HISTORICAL SOIL ANALYTICAL RESULTS

P:\0320 ARNOLD'S\0320-001-04\TECHNICAL\CAD\2012\0320_001_04_2012_XAA_F.DWG

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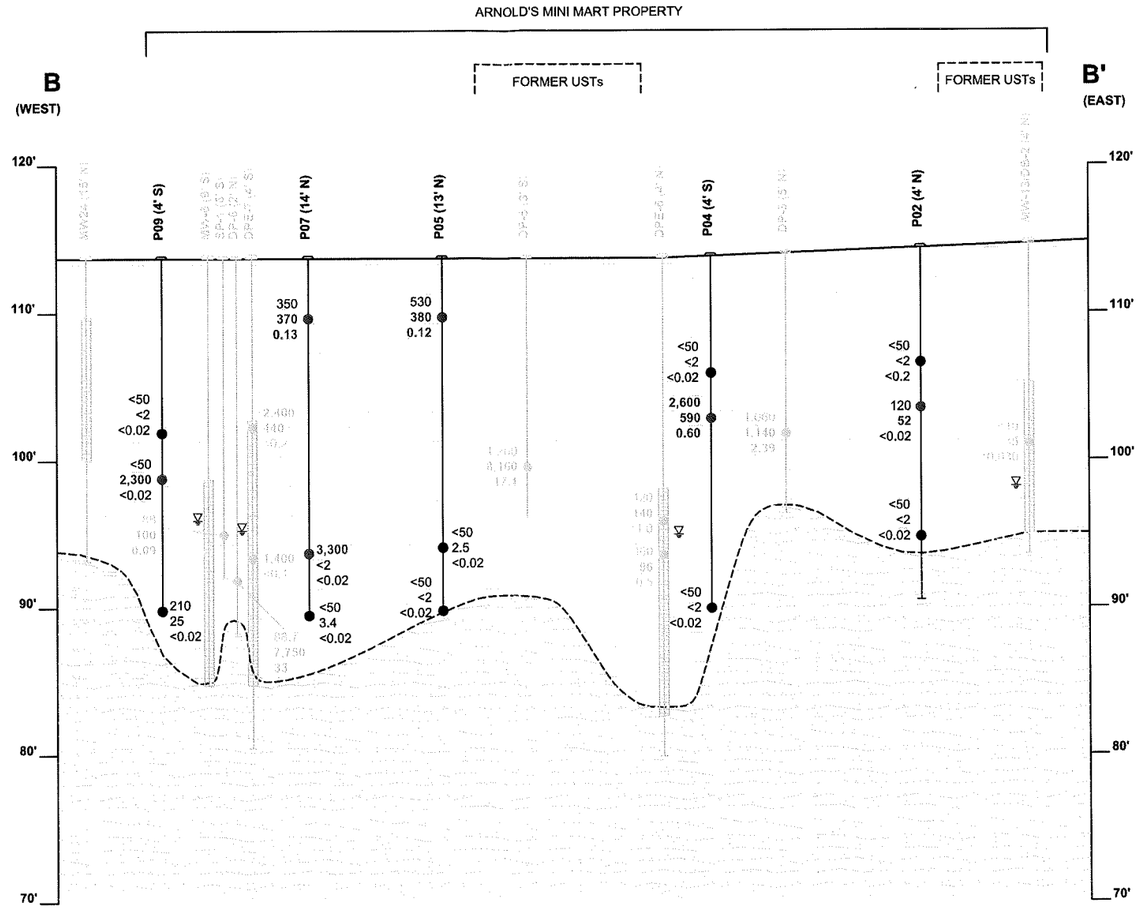
7/6/2012



LEGEND

(15' N) OFFSET 15' NORTH MONITORING WELL

SCREEN INTERVAL

GROUNDWATER LEVEL (SAIC, JANUARY 2011)

SILTY SAND AND SAND

SILT AND CLAY

GEOLOGIC CONTACT

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN SOIL (mg/kg):

- ● CONCENTRATION BELOW MTCA METHOD A CLEANUP LEVEL
- ◉ CONCENTRATION ABOVE MTCA METHOD A CLEANUP LEVEL

2,600 DIESEL-RANGE PETROLEUM HYDROCARBONS
590 GASOLINE-RANGE PETROLEUM HYDROCARBONS
0.60 BENZENE

UST	UNDERGROUND STORAGE TANK
mg/kg	MILLIGRAMS PER KILOGRAM
RED	DENOTES CONCENTRATIONS EXCEEDING MTCA METHOD A CLEANUP LEVELS IN SOIL
<	RESULT BELOW LABORATORY REPORTING LIMITS
MTCA	WASHINGTON STATE MODEL TOXICS CONTROL ACT
SAIC	SAIC ENERGY, ENVIRONMENT, AND INFRASTRUCTURE, LLC

SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

DATE: 07/06/12
DRAWN BY: NAC/JQC
CHECKED BY: PJK/DMM
CAD FILE: 0320_001_04_2012_XBB

PROJECT NAME: AMOLD'S PROPERTY
PROJECT NUMBER: 0320-001-04
STREET ADDRESS: 631 QUEEN ANNE AVENUE NORTH
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 10 20 40
APPROXIMATE HORIZONTAL SCALE IN FEET

FIGURE 5
CROSS SECTION B-B' WITH CURRENT AND HISTORICAL SOIL ANALYTICAL RESULTS

P:\0320 ARNOLD'S\0320-001-04\TECHNICAL\CAD\2012\0320_001_04_2012_XBB_F.DWG

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TABLE

SoundEarth Strategies

Table 1
Summary of Soil Analytical Results
Arnold's Property
631 Queen Anne Avenue North
Seattle, Washington

Sample Location	Sample ID	Sample Date	Sampled By	Sample Depth (feet bgs)	PID (ppmv)	Analytical Results (mg/kg)							Notes
						GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]	Toluene[3]	Ethylbenzene[3]	Total Xylenes[3]	
P01	P01-04	05/02/12	SoundEarth	4	1.1	--	--	--	--	--	--	--	No Odor
	P01-06	05/02/12	SoundEarth	6	3.8	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
	P01-11	05/02/12	SoundEarth	11	11.1	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
	P01-14	05/02/12	SoundEarth	14	44.0	--	--	--	--	--	--	--	Slight-Moderate HC Odor
	P01-20	05/02/12	SoundEarth	20	2.1	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
	P01-24	05/02/12	SoundEarth	24	1.0	--	--	--	--	--	--	--	No Odor
P02	P02-04	05/02/12	SoundEarth	4	1.3	--	--	--	--	--	--	--	No Odor
	P02-08	05/02/12	SoundEarth	8	0.8	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
	P02-11	05/02/12	SoundEarth	11	24.7	52	120	<250	<0.02	0.18	0.37	0.53	Moderate HC Odor
	P02-16	05/02/12	SoundEarth	16	4.3	--	--	--	--	--	--	--	No Odor
	P02-20	05/02/12	SoundEarth	20	2.4	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
	P02-24	05/02/12	SoundEarth	24	0.5	--	--	--	--	--	--	--	No Odor
P03	P03-04	05/02/12	SoundEarth	4	34.5	17	67[x]	<250	<0.02	<0.02	<0.02	<0.06	Moderate HC Odor
	P03-08	05/02/12	SoundEarth	8	2.9	--	--	--	--	--	--	--	No Odor
	P03-11	05/02/12	SoundEarth	11	100.2	110	1,800	<250	<0.02	<0.02	0.026	0.090	Moderate-Strong HC Odor
	P03-15	05/02/12	SoundEarth	15	203.5	590	1,500	<250	0.06[j]	0.82	2.3	8.6	Strong HC Odor
	P03-20	05/02/12	SoundEarth	20	4.0	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
	P03-24	05/02/12	SoundEarth	24	2.7	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
P04	P04-04	05/02/12	SoundEarth	4	1.9	--	--	--	--	--	--	--	No Odor
	P04-08	05/02/12	SoundEarth	8	3.8	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
	P04-11	05/02/12	SoundEarth	11	567.0	590	2,600	<250	0.60	1.8	2.0	4.6	Strong HC Odor
	P04-15	05/02/12	SoundEarth	15	76.2	--	--	--	--	--	--	--	Slight HC Odor
	P04-20	05/02/12	SoundEarth	20	9.5	--	--	--	--	--	--	--	No Odor
	P04-24	05/02/12	SoundEarth	24	2.4	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
P05	P05-04	05/02/12	SoundEarth	4	29.1	380	530	360	0.12	0.82	3.1	3.1	Moderate HC Odor
	P05-08	05/02/12	SoundEarth	8	2.4	--	--	--	--	--	--	--	No Odor
	P05-11	05/02/12	SoundEarth	11	6.2	--	--	--	--	--	--	--	No Odor
	P05-15	05/02/12	SoundEarth	15	12.5	--	--	--	--	--	--	--	No Odor
	P05-20	05/02/12	SoundEarth	20	827.0	2.5	<50	<250	<0.02	<0.02	<0.02	<0.06	Strong HC Odor
	P05-24	05/02/12	SoundEarth	24	3.5	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
P06	P06-04	05/02/12	SoundEarth	4	1.0	--	--	--	--	--	--	--	No Odor
	P06-07	05/02/12	SoundEarth	7	0.8	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
	P06-11	05/02/12	SoundEarth	11	74.3	--	--	--	--	--	--	--	Slight Odor
	P06-14	05/02/12	SoundEarth	14	116.0	65	1,000[x]	<250	0.036	0.22	0.64	1.5	Slight-Moderate HC Odor
	P06-19	05/02/12	SoundEarth	19	PID Inoperable	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
	P06-24	05/02/12	SoundEarth	24		<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
P07	P07-04	05/02/12	SoundEarth	4		370	350	<250	0.13	0.77	3.0	2.7	Slight HC Odor
	P07-08	05/02/12	SoundEarth	8		--	--	--	--	--	--	--	Strong HC Odor
	P07-11	05/02/12	SoundEarth	11		--	--	--	--	--	--	--	Slight-Strong HC Odor
	P07-14	05/02/12	SoundEarth	14	315.0	--	--	--	--	--	--	--	Strong HC Odor
	P07-20	05/02/12	SoundEarth	20	476.0	<2	3,300	<250	<0.02	<0.02	<0.02	<0.06	Strong HC Odor
	P07-24	05/02/12	SoundEarth	24	4.2	3.4	<50	<250	<0.02	<0.02	<0.02	<0.06	Slight HC Odor
P08	P08-08	05/02/12	SoundEarth	8	0.2	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
	P08-11	05/02/12	SoundEarth	11	3.7	--	--	--	--	--	--	--	No Odor
	P08-14	05/02/12	SoundEarth	14	662.0	2,500	2,600	<250	2.5	6.4	26	160	Strong HC Odor
	P08-16	05/02/12	SoundEarth	16	36.0	--	--	--	--	--	--	--	No Odor
	P08-19	05/02/12	SoundEarth	19	298.0	7.5	<50	<250	0.035	<0.02	<0.02	<0.06	Strong HC Odor
	P08-28	05/02/12	SoundEarth	28	2.4	<2	<50	<250	0.14	<0.02	<0.02	<0.06	No Odor
P09	P09-03	05/02/12	SoundEarth	3	0.8	--	--	--	--	--	--	--	No Odor
	P09-08	05/02/12	SoundEarth	8	1.5	--	--	--	--	--	--	--	No Odor
	P09-12	05/02/12	SoundEarth	12	6.5	<2	<50	<250	<0.02	<0.02	<0.02	<0.06	No Odor
	P09-15	05/02/12	SoundEarth	15	177.0	2,300	<50	<250	<0.02[j]	18	16	27	Strong HC Odor
	P09-20	05/02/12	SoundEarth	20	42.3	--	--	--	--	--	--	--	Moderate HC Odor
	P09-24	05/02/12	SoundEarth	24	4.4	25	210	<250	<0.02	<0.02	<0.02	<0.06	No Odor
MTCA Cleanup Level for Soil[a]						100/30[b]	2,000	2,000	0.03	7	6	9	

NOTES:

Red denotes concentration exceeds MTCA cleanup level.

< = not detected at a concentration exceeding the laboratory reporting limit.

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

[1]Analyzed by Method NWTPH-Gx.

[2]Analyzed by Method NWTPH-Dx.

[3]Analyzed by EPA Method 8021B.

[a]MTCA Method A Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340 of the WAC, revised November 2007.

[b]100 mg/kg when benzene is not present and 30 mg/kg when benzene is present.

Laboratory Notes

[j] The result is below normal reporting limits. The value reported is an estimate.

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

-- = not analyzed

mg/kg = milligrams per kilogram

bgs = below ground surface

DRPH = diesel-range petroleum hydrocarbons

EPA = U.S. Environmental Protection Agency

GRPH = gasoline-range petroleum hydrocarbons

HC = hydrocarbon

MTCA = Washington State Model Toxics Control Act

NWTPH = northwest total petroleum hydrocarbon

ORPH = oil-range petroleum hydrocarbons

WAC = Washington Administrative Code

ATTACHMENT A
BORING LOGS

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	3.6' S of MW10
Well Location E/W:	4.2' W of MW10
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P01

Site Address: 631 Queen Anne Avenue North
Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
0						SP		**Asphalt at surface.**	
			80	1.0				**Damp to moist, medium to fine SAND with silt and gravel, light brown, no hydrocarbon odor (10-80-10).**	
				1.1	P01-04				
5						SM		**Damp, dense, silty SAND with gravel, dark brown, no hydrocarbon odor (20-70-10).**	
			80	3.8	P01-06				
				1.9		SP		**Moist, dense, medium to fine SAND with silt and gravel, brown, no hydrocarbon odor (10-85-5).**	
10			70	4.3					
				11.1	P01-11			**Wet, dense, medium to fine SAND with silt and gravel, reddish-brown, no hydrocarbon odor (10-85-5).**	
			100	44	P01-14			**Wet, dense, medium to fine SAND with silt, brownish gray to gray, slight to moderate hydrocarbon odor (5-95-0).**	
15									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	3.6' S of MW10
Well Location E/W:	4.2' W of MW10
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P01

Site Address: 631 Queen Anne Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
15				3.8					
				2.1		ML		**Damp, dense, SILT with fine sand, brown, no hydrocarbon odor (60-40-0).**	
			100						
20				2.1	P01-20				
				1.0				**Damp, dense, SILT with fine sand, gray, no hydrocarbon odor (60-40-0).**	
			100						
				1.0	P01-24				
								Boring terminated at 24' bgs.	
25									
30									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	0' S of MW13
Well Location E/W:	11.5' W of MW13
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P02

Site Address: 631 Queen Anne Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
0						SM		**Asphalt at surface.**	
			80	1.0				**Damp, dense, silty SAND with gravel, brown, no hydrocarbon odor (20-75-5).**	
				1.3	P02-04			**Moist, dense, silty SAND with gravel, brown, no hydrocarbon odor (20-75-5).**	
5			80	1.0					
				0.8	P02-08	SP		**Moist, dense, medium to fine SAND with silt and gravel, brown, no hydrocarbon odor (10-85-5).**	
				2.4					
10			90						
				24.7	P02-11			**Wet, dense, medium to fine SAND with silt and gravel, brown, moderate hydrocarbon odor (10-85-5).**	
				4.3					
			100						
15									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	0' S of MW13
Well Location E/W:	11.5' W of MW13
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P02

Site Address: 631 Queen Anne Avenue North
Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
15				4.3	P02-16				
				1.9					
			--						
20				2.4	P02-20				
				1.0		ML		**Damp, dense, SILT with fine sand, gray, no hydrocarbon odor (60-40-0).**	
			--						
				0.5	P02-24				
								Boring terminated at 24' bgs.	
25									
30									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	2.0' S of MW09
Well Location E/W:	75.2' E of MW09
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P03

Site Address: 631 Queen Anne Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
0						SM		**Asphalt at surface.**	
			80	1.9				**Damp, dense, silty SAND with gravel, brown, no hydrocarbon odor (20-70-10).**	
				34.5	P03-04			**Damp, dense, silty SAND with gravel, dark brown, moderate hydrocarbon odor (20-75-5).**	
5									
			80	4.9				**Damp, dense, silty SAND with gravel, brown, no hydrocarbon odor (20-70-10).**	
				2.9	P03-08	SP		**Moist, dense, medium to fine SAND with silt and gravel, brown, no hydrocarbon odor (5-90-5).**	
				4.6					
10			100						
				100.2	P03-11			**Wet, dense, medium to fine SAND with silt and gravel, gray to brownish gray, moderate to strong hydrocarbon odor (5-90-5).**	
				23.6					
			100						
15									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	2.0' S of MW09
Well Location E/W:	75.2' E of MW09
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P03

Site Address: 631 Queen Anne Avenue North
Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
15				203.5	P03-15				
						ML		**Damp, dense, SILT with fine sand, dark brown, no hydrocarbon odor (60-40-0).**	
				648		SP		**Wet, dense, medium to fine SAND with silt and gravel, gray, strong hydrocarbon odor (10-80-10).**	
			100						
								Wet, dense, medium to fine SAND with silt and gravel, gray, no hydrocarbon odor (10-80-10).	
20				4.0	P03-20			**Wet, dense, medium to fine SAND with silt and gravel, brown, no hydrocarbon odor (10-80-10).**	
				4.0					
			--						
				2.7	P03-24				
								Boring terminated at 24' bgs.	
25									
30									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	7.6' S of DPE-G
Well Location E/W:	10.0' E of DPE-C
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P04

Site Address: 631 Queen Anne Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
0						SM		**Asphalt at surface.**	
			90	1.0				**Damp, dense, silty SAND with gravel, light brown, no hydrocarbon odor (20-70-10).**	
				1.9	P04-04			**Damp, dense, silty SAND with gravel, light brown, no hydrocarbon odor (20-75-5).**	
5			90	2.1					
				3.8	P04-08			**Damp, dense, silty SAND with gravel, light brown, no hydrocarbon odor (20-70-10).**	
				4.6		SP		**Moist, dense, medium to fine SAND with silt and gravel, grayish-brown, no hydrocarbon odor (10-80-10).**	
10			--						
				567	P04-11			**Wet, dense, medium to fine SAND with silt and gravel, gray, strong hydrocarbon odor (10-80-10).**	
			--						
15									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	7.6' S of DPE-G
Well Location E/W:	10.0' E of DPE-C
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P04

Site Address: 631 Queen Anne Avenue North
Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
15				76.2	P04-15			**Wet, dense, medium to fine SAND with silt and gravel, brownish-gray, slight hydrocarbon odor (5-85-10).**	
				63.2					
			100						
								Wet, dense, medium to fine SAND with silt and gravel, brown, no hydrocarbon odor (5-95-0).	
20				9.5	P04-20				
				3.9					
			--						
				2.4	P04-24				
								Boring terminated at 24' bgs.	
25									
30									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	8' N of DPE-6
Well Location E/W:	27.8' W of DPE-6
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P05

Site Address: 631 Queen Anne Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
0			100	1.6		SP		**Asphalt at surface.** **Damp, dense, medium to fine SAND with gravel and silt, light brown, no hydrocarbon odor (10-80-10).**	
5			80	29.1	P05-04	SM		**Damp, dense, silty SAND with gravel, dark brown, moderate hydrocarbon odor (20-75-5).**	
				30.0				**Damp, dense, silty SAND with gravel, dark brown, brick fragments and fill debris towards bottom, no hydrocarbon odor (20-70-10).**	
				2.4	P05-08				
10			--	6.0					
				6.2	P05-11	SP		**Wet, dense, medium to fine SAND with silt and gravel, dark brown to dark gray, slight hydrocarbon odor (10-85-5).**	
				10.3				**Wet, dense, medium to fine SAND with silt, dark brown to dark gray, slight hydrocarbon odor (10-90-0).**	
15			--						

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	8' N of DPE-6
Well Location E/W:	27.8' W of DPE-6
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P05

Site Address: 631 Queen Anne Avenue North
Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
15				12.5	P05-15			**Wet, dense, medium to fine SAND with silt, brown, no hydrocarbon odor (5-95-0).**	
				12.5				**Moist, dense, medium to fine SAND with gravel and silt, brown, no hydrocarbon odor (10-80-10).**	
			--						
								Wet, dense, medium to fine SAND, dark gray, strong hydrocarbon odor (5-95-0).	
20				827	P05-20				
								Wet, dense, medium to fine SAND with silt, grayish-brown, slight hydrocarbon odor (5-95-0).	
			100	46.8					
								Wet, dense, medium to fine SAND with silt, brown, no hydrocarbon odor (5-95-0).	
				3.5	P05-24				
								Boring terminated at 24' bgs.	
25									
30									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs
Sampler Type:	--		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt	
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	--		**Monument Type:**	--	

Notes/Comments:

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	6.6' S of MW09
Well Location E/W:	23.3' W of MW09
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P06

Site Address: 631 Queen Anne Avenue North
Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
0			90	1.0		SM		**Asphalt at surface.** **Damp, dense, silty SAND with gravel and brick fragments, light brown, no hydrocarbon odor (20-70-10).**	
5				1.0	P06-04	ML		**Damp, dense SILT with gravel and fine sand, dark brown, no hydrocarbon odor (40-50-10).**	
			--	1.0		SP		**Damp, dense, medium to fine SAND, light brown, no hydrocarbon odor (5-95-0).**	
				0.8	P06-07	ML		**Damp, dense, SILT with fine sand and wood fragments, dark brown, no hydrocarbon odor (40-50-10).**	
10			--	4.3		SP		**Moist, dense, medium to fine SAND with silt, brown, no hydrocarbon odor (5-95-0).**	
				74.3	P06-11			**Wet, dense, medium to fine SAND with silt brownish grey, slight hydrocarbon odor (10-80-10).**	
15			--	116	P06-14				

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

Sound Earth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	6.6' S of MW09
Well Location E/W:	23.3' W of MW09
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P06

Site Address: 631 Queen Anne Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
15				28.7				**Wet, dense, medium to fine SAND with gravel and silt, brownish gray to gray, slight to moderate hydrocarbon odor (10-80-10).**	
			--						
				PID inoperable	P06-19				
20								**Wet, dense, medium SAND with silt and gravel, gray, no hydrocarbon odor (5-90-5).**	
			--						
				PID inoperable	P06-24				
25								**Boring terminated at 24' bgs.**	
30									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	26' S of MW09
Well Location E/W:	31' W of MW09
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P07

Site Address: 631 Queen Anne Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
0						SM		**Asphalt at surface.**	
			90					**Damp, dense, silty SAND with gravel, light brown, no hydrocarbon odor (20-70-10).**	
				PID Inoperable	P07-04			**Damp, dense, silty SAND with gravel, dark brown, slight hydrocarbon odor (20-75-5).**	
5			90						
				PID Inoperable	P07-08			**Damp, dense, silty SAND with gravel and asphalt debris, dark brown, strong hydrocarbon odor (20-75-5).**	
								Damp, dense, silty SAND with gravel, dark brown, slight hydrocarbon odor (20-75-5).	
10			80			SP		**Wet, dense, medium to fine SAND with silt, dark gray, slight hydrocarbon odor (5-95-0).**	
				PID Inoperable	P07-11				
								Wet, dense, medium to fine SAND, dark gray, strong hydrocarbon odor (5-95-0).	
			100	315	P07-14				
15									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	26' S of MW09
Well Location E/W:	31' W of MW09
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P07

Site Address: 631 Queen Anne Avenue North
Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
15				326				**Wet, dense, medium to fine SAND, reddish-brown, slight hydrocarbon odor (5-95-0).**	
				7.2					
			--					**Silt lens.**	
								Wet, dense, medium to fine SAND, dark gray, strong hydrocarbon odor (5-95-0).	
20				476	P07-20				
			--	285					
				4.2	P07-24			**Wet, dense, medium to fine SAND, gray, slight hydrocarbon odor (5-95-0).**	
								Boring terminated at 24' bgs.	
25									
30									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	4.4' S of NW corner of ramp
Well Location E/W:	4.8' W of NW corner of ramp
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P08

Site Address: 631 Queen Anne Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
0			--			Blank		**Asphalt at surface.** **Rotten log.**	
5			50						
				0.2	P08-08	SM		**Damp, loose, silty SAND with gravel, dark brown, no hydrocarbon odor (20-75-5).** **Moist, dense, silty SAND with gravel, dark brown, no hydrocarbon odor (20-75-5).**	
10			80	0.3		SP		**Wet, dense, medium to fine SAND with silt, brownish-gray, no hydrocarbon odor (5-95-0).**	
				3.7	P08-11				
			75	662	P08-14			**Wet, medium to fine SAND with silt, gray, strong hydrocarbon hydrocarbon odor (5-95-0).**	
15									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	28	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	4.4' S of NW corner of ramp
Well Location E/W:	4.8' W of NW corner of ramp
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P08

Site Address: 631 Queen Anne Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 11 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 Construction Detail
15				36.0	P08-16			**Wet, dense, medium to fine SAND, gray, no hydrocarbon odor (5-95-0).**	
				237				**Moist, dense, medium to fine SAND, brown, strong hydrocarbon odor (5-95-0).**	
			90						
				298	P08-19				
20								**Wet, dense, medium to fine SAND, brown, strong hydrocarbon odor (5-95-0).**	
			--	277					
				30.1		ML		**Damp, dense, SILT with fine sand, brown, moderate hydrocarbon odor (60-40-0).**	
25			--	7.0				**Damp, dense, SILT with fine sand, gray, no hydrocarbon odor (70-30-0).**	
				2.4	P08-28				
								Boring terminated at 28' bgs.	
30									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs
Sampler Type:	--		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	28	feet bgs	**Surface Seal:**	Asphalt	
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	--		**Monument Type:**	--	

Notes/Comments:

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	0' N of DPE-7
Well Location E/W:	8.7' W of DPE-7
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P09

Site Address: 631 Queen Anne Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 12 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 Construction Detail
0						SM		**Asphalt at surface.** **Damp, loose, silty SAND with gravel, dark brown, no hydrocarbon odor (20-75-5).**	
			90	0.9		SP		**Damp, loose, medium to fine SAND with silt, light brown, no hydrocarbon odor (5-95-0).**	
				0.8	P09-03	SM		**Damp, loose, silty SAND with gravel, dark brown, no hydrocarbon odor (20-75-5).**	
5			100	0.8					
				1.5	P09-08				
10			--	1.6		SP		**Moist, dense, medium to fine SAND with silt, light brown, no hydrocarbon odor (5-95-0).**	
				6.5	P09-12			**Wet, dense, medium to fine SAND with silt, light brown, no hydrocarbon odor (5-95-0).**	
				16					
15			--						

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Arnold's Property
Project Number:	0320-001
Logged by:	RAH
Date Started:	5/2/12
Surface Conditions:	Asphalt
Well Location N/S:	0' N of DPE-7
Well Location E/W:	8.7' W of DPE-7
Reviewed by:	RKB
Date Completed:	5/2/12

BORING LOG | P09

Site Address: 631 Queen Anne Avenue North, Seattle, Washington

Water Depth At Time of Drilling: 12 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 Construction Detail
15				177	P09-15			**Wet, dense, medium to fine SAND, dark gray, strong hydrocarbon odor (5-95-0).**	
				2.3				**Wet, dense, medium to fine SAND, brown.**	
			90						
								Wet, dense, medium to fine SAND with silt, gray, moderate hydrocarbon odor (5-95-0).	
20				42.3	P09-20				
				4.7				**Wet, dense, medium to fine SAND with silt, light gray to gray, no hydrocarbon odor (5-95-0).**	
			--						
				4.4	P09-24				
25								**Boring terminated at 24' bgs.**	
30									

Drilling Co./Driller:	ESN/Don		**Well/Auger Diameter:**	--/2	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	24	feet bgs	**Surface Seal:**	Asphalt		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

ATTACHMENT B
LABORATORY ANALYTICAL REPORTS

Friedman & Bruya, Inc. #205047

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
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May 11, 2012

Suzy Stumpf, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Stumpf:

Included are the results from the testing of material submitted on May 3, 2012 from the SOU_0320_20120503, F&BI 205047 project. There are 13 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
SOU0511R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on May 3, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0320_20120503, F&BI 205047 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
205047-01	P01-04
205047-02	P01-06
205047-03	P01-11
205047-04	P01-14
205047-05	P01-20
205047-06	P01-24
205047-07	P02-04
205047-08	P02-08
205047-09	P02-11
205047-10	P02-16
205047-11	P02-20
205047-12	P02-24
205047-13	P03-04
205047-14	P03-08
205047-15	P03-11
205047-16	P03-15
205047-17	P03-20
205047-18	P03-24
205047-19	P04-04
205047-20	P04-08
205047-21	P04-11
205047-22	P04-15
205047-23	P04-20
205047-24	P04-24
205047-25	P05-04
205047-26	P05-08
205047-27	P05-11
205047-28	P05-15
205047-29	P05-20
205047-30	P05-24
205047-31	P06-04
205047-32	P06-07
205047-33	P06-11
205047-34	P06-14
205047-35	P06-19

CASE NARRATIVE (continued)

Laboratory ID	SoundEarth Strategies
205047-36	P06-24
205047-37	P07-04
205047-38	P07-08
205047-39	P07-11
205047-40	P07-14
205047-41	P07-20
205047-42	P07-24
205047-43	P08-08
205047-44	P08-11
205047-45	P08-14
205047-46	P08-16
205047-47	P08-19
205047-48	P08-28
205047-49	P09-03
205047-50	P09-08
205047-51	P09-12
205047-52	P09-15
205047-53	P09-20
205047-54	P09-24

All quality control requirements were acceptable.

Date of Report: 05/11/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047
Date Extracted: 05/04/12
Date Analyzed: 05/04/12, 05/05/12, 05/07/12, and 05/08/12

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

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

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 50-132)
P01-06 205047-02	<0.02	<0.02	<0.02	<0.06	<2	96
P01-11 205047-03	<0.02	<0.02	<0.02	<0.06	<2	99
P01-20 205047-05	<0.02	<0.02	<0.02	<0.06	<2	96
P02-08 205047-08	<0.02	<0.02	<0.02	<0.06	<2	95
P02-11 205047-09	<0.02	0.18	0.37	0.53	52	106
P02-20 205047-11	<0.02	<0.02	<0.02	<0.06	<2	94
P03-04 205047-13	<0.02	<0.02	<0.02	<0.06	17	93
P03-11 205047-15	<0.02	<0.02	0.026	0.090	110	93
P03-15 205047-16 1/5	0.06 j	0.82	2.3	8.6	590	108
P03-24 205047-18	<0.02	<0.02	<0.02	<0.06	<2	93

Date of Report: 05/11/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047
Date Extracted: 05/04/12
Date Analyzed: 05/04/12, 05/05/12, 05/07/12, and 05/08/12

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

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

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 50-132)
P04-08 205047-20	<0.02	<0.02	<0.02	<0.06	<2	93
P04-11 205047-21 1/5	0.60	1.8	2.0	4.6	590	102
P04-24 205047-24	<0.02	<0.02	<0.02	<0.06	<2	94
P05-04 205047-25 1/5	0.12	0.82	3.1	3.1	380	115
P05-20 205047-29	<0.02	<0.02	<0.02	<0.06	2.5	95
P05-24 205047-30	<0.02	<0.02	<0.02	<0.06	<2	98
P06-07 205047-32	<0.02	<0.02	<0.02	<0.06	<2	93
P06-14 205047-34	0.036	0.22	0.64	1.5	65	103
P06-24 205047-36	<0.02	<0.02	<0.02	<0.06	<2	95
P07-04 205047-37 1/5	0.13	0.77	3.0	2.7	370	112
P07-20 205047-41	<0.02	<0.02	<0.02	<0.06	<2	94

Date of Report: 05/11/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047
Date Extracted: 05/04/12
Date Analyzed: 05/04/12, 05/05/12, 05/07/12, and 05/08/12

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

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

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 50-132)
P07-24 205047-42	<0.02	<0.02	<0.02	<0.06	3.4	93
P08-08 205047-43	<0.02	<0.02	<0.02	<0.06	<2	96
P08-14 205047-45 1/100	2.5	6.4	26	160	2,500	100
P08-28 205047-48	0.14	<0.02	<0.02	<0.06	<2	92
P09-12 205047-51	<0.02	<0.02	<0.02	<0.06	<2	94
P09-15 205047-52 1/50	<0.02 j	18	16	27	2,300	103
P09-24 205047-54	<0.02	<0.02	<0.02	<0.06	25	95
Method Blank 02-0759 MB	<0.02	<0.02	<0.02	<0.06	<2	91
Method Blank 02-0760 MB	<0.02	<0.02	<0.02	<0.06	<2	92

Date of Report: 05/11/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047
Date Extracted: 05/07/12
Date Analyzed: 05/07/12, 05/08/12, and 05/09/12

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)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
P01-06 205047-02	<50	<250	85
P01-11 205047-03	<50	<250	88
P01-20 205047-05	<50	<250	89
P02-08 205047-08	<50	<250	91
P02-11 205047-09	120	<250	88
P02-20 205047-11	<50	<250	84
P03-04 205047-13	67 x	<250	93
P03-11 205047-15	1,800	<250	89
P03-15 205047-16	1,500	<250	90
P03-24 205047-18	<50	<250	89
P04-08 205047-20	<50	<250	88
P04-11 205047-21	2,600	<250	90

Date of Report: 05/11/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047
Date Extracted: 05/07/12
Date Analyzed: 05/07/12, 05/08/12, and 05/09/12

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)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
P04-24 205047-24	<50	<250	96
P05-04 205047-25	530	360	92
P05-20 205047-29	<50	<250	91
P05-24 205047-30	<50	<250	94
P06-07 205047-32	<50	<250	96
P06-14 205047-34	1,000 x	<250	90
P06-24 205047-36	<50	<250	91
P07-04 205047-37	350	<250	93
P07-20 205047-41	3,300	<250	105
P07-24 205047-42	<50	<250	103
P08-08 205047-43	<50	<250	103
P08-14 205047-45	2,600	<250	115

Date of Report: 05/11/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047
Date Extracted: 05/07/12
Date Analyzed: 05/07/12, 05/08/12, and 05/09/12

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)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
P08-28 205047-48	<50	<250	102
P09-12 205047-51	<50	<250	103
P09-15 205047-52	<50	<250	108
P09-24 205047-54	210	<250	105
Method Blank 02-766 MB	<50	<250	102
Method Blank 02-765 MB	<50	<250	98

Date of Report: 05/11/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047

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: 205047-02 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (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	6	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	68	66-121
Toluene	mg/kg (ppm)	0.5	72	72-128
Ethylbenzene	mg/kg (ppm)	0.5	78	69-132
Xylenes	mg/kg (ppm)	1.5	82	69-131
Gasoline	mg/kg (ppm)	20	110	61-153

Date of Report: 05/11/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047

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: 205047-41 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (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	79	66-121
Toluene	mg/kg (ppm)	0.5	87	72-128
Ethylbenzene	mg/kg (ppm)	0.5	88	69-132
Xylenes	mg/kg (ppm)	1.5	91	69-131
Gasoline	mg/kg (ppm)	20	105	61-153

Date of Report: 05/11/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047

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

Laboratory Code: 205047-42 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	102	99	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	103	79-144

Date of Report: 05/11/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047

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

Laboratory Code: 205047-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	103	103	73-135	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	103	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.

A1 – More than one compound of similar molecule structure was identified with equal probability.

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 this range fell outside of acceptance criteria. The value reported is an estimate.

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

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

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. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

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

j – The result is below normal reporting limits. 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 analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is 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 compound indicated 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.

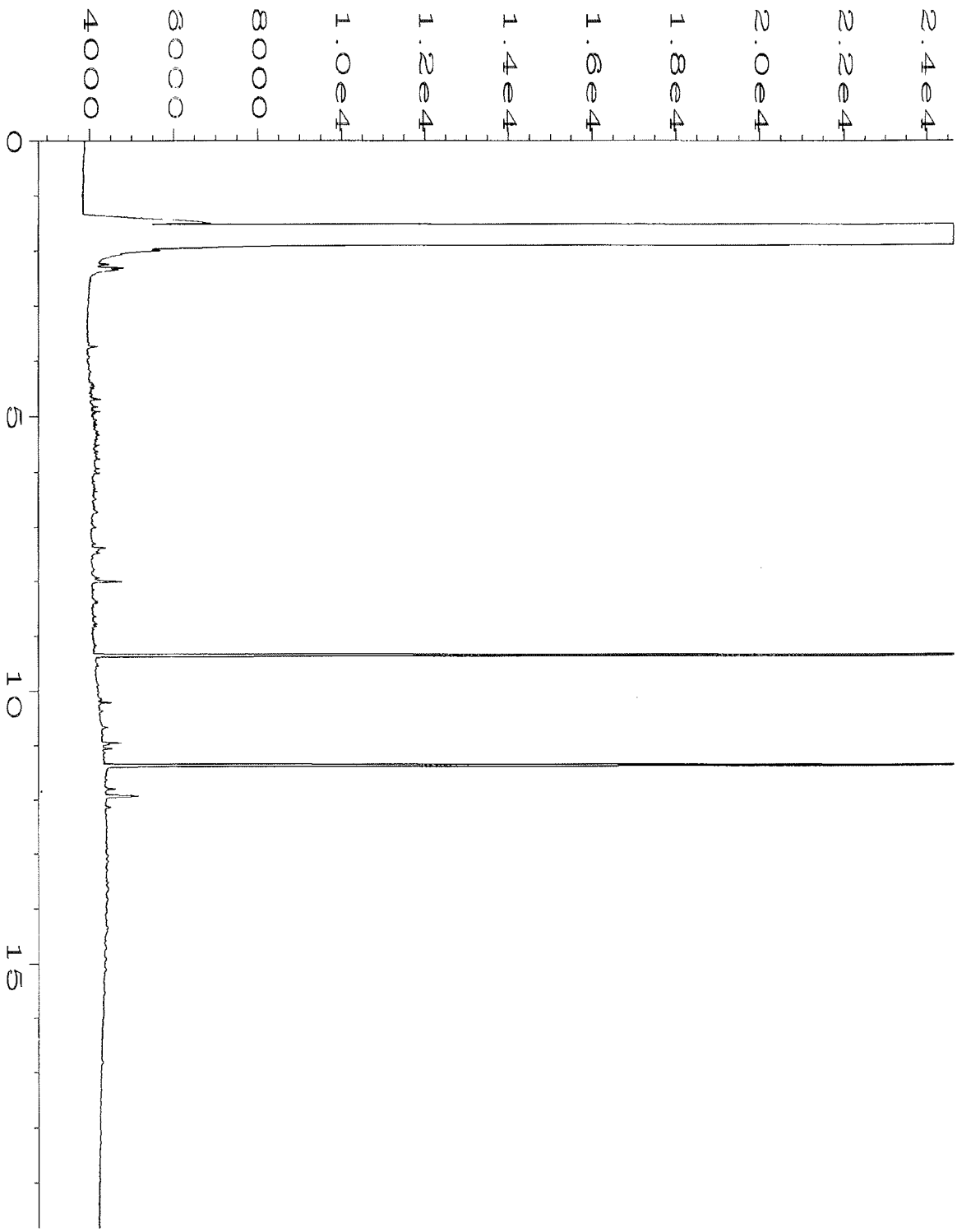
pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

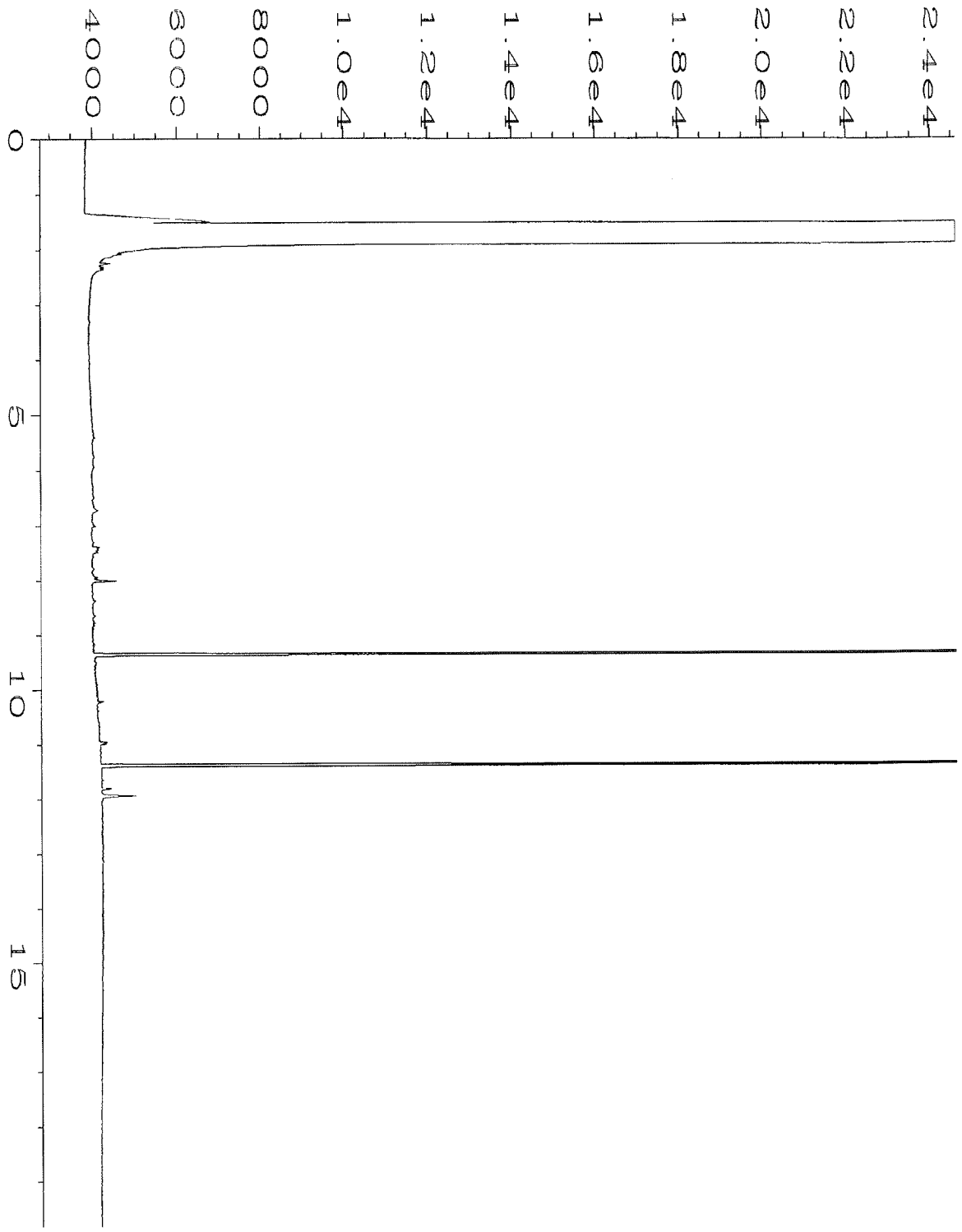
vo - The value reported fell outside the control limits established for this analyte.

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



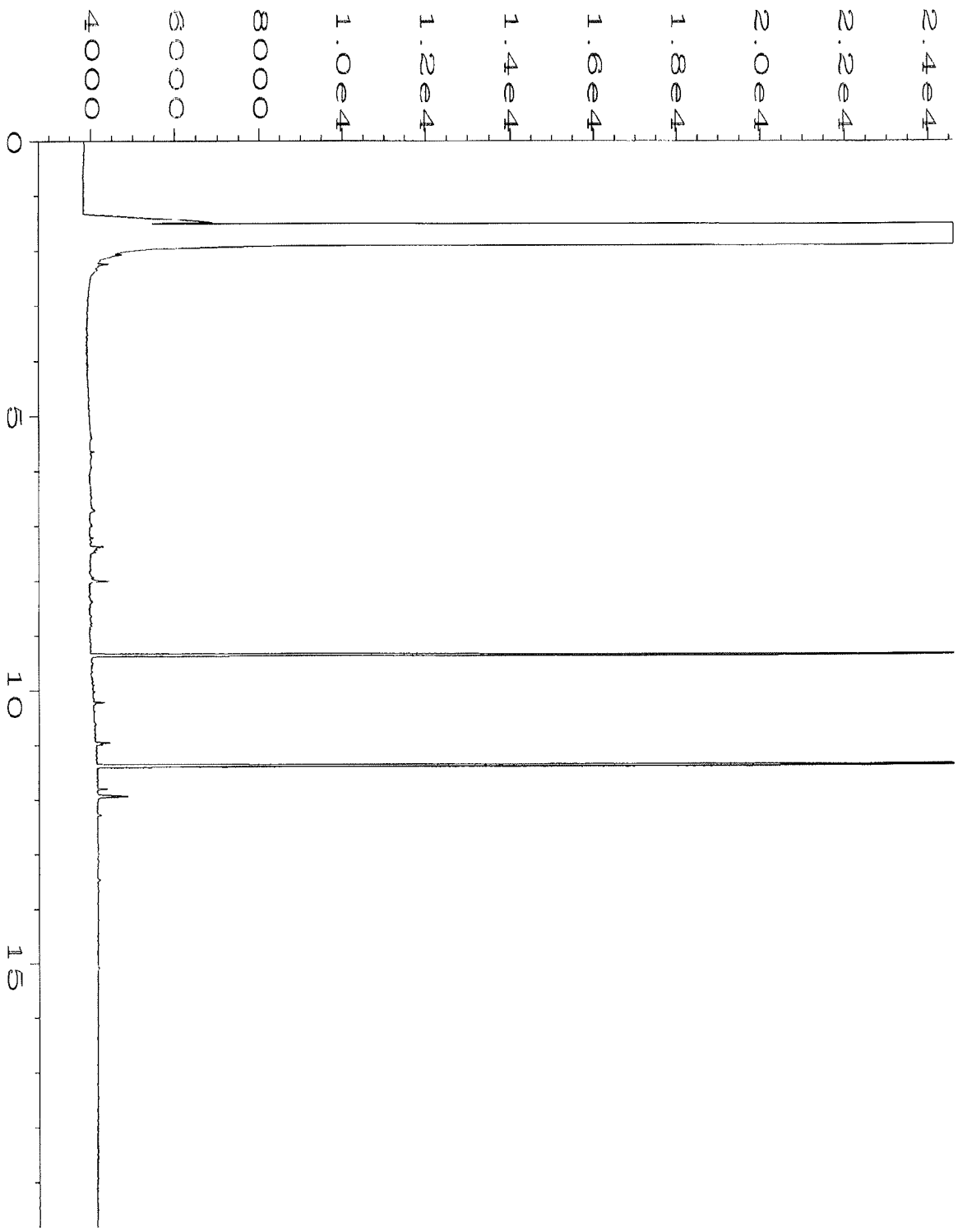
Data File Name : C:\HPCHEM\4\DATA\05-08-12\010F0501.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-02
Run Time Bar Code:
Acquired on : 08 May 12 06:58 PM
Report Created on: 10 May 12 10:25 AM

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 5
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



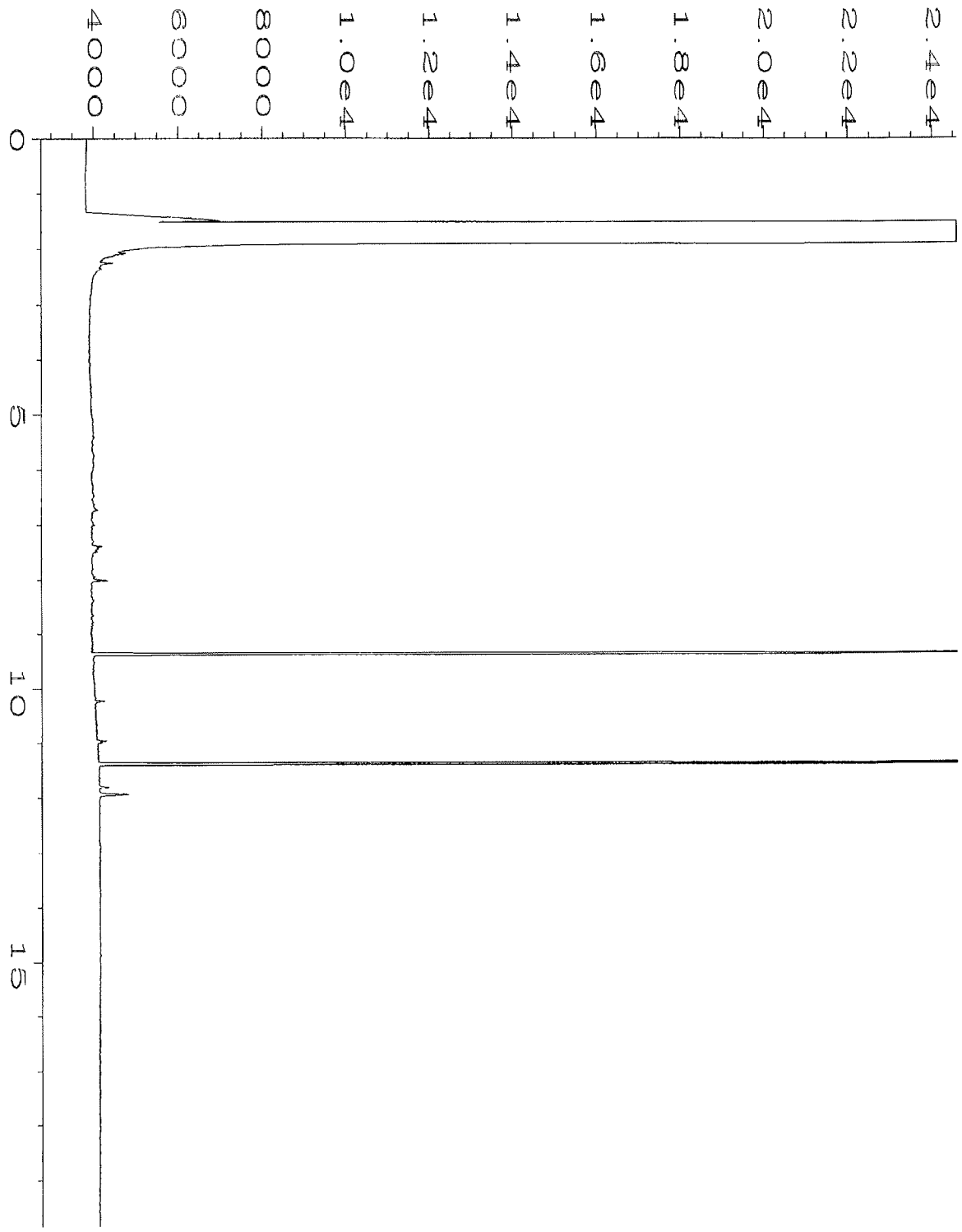
Data File Name : C:\HPCHEM\4\DATA\05-08-12\011F0501.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-03
Run Time Bar Code:
Acquired on : 08 May 12 07:25 PM
Report Created on: 10 May 12 10:25 AM

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 5
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



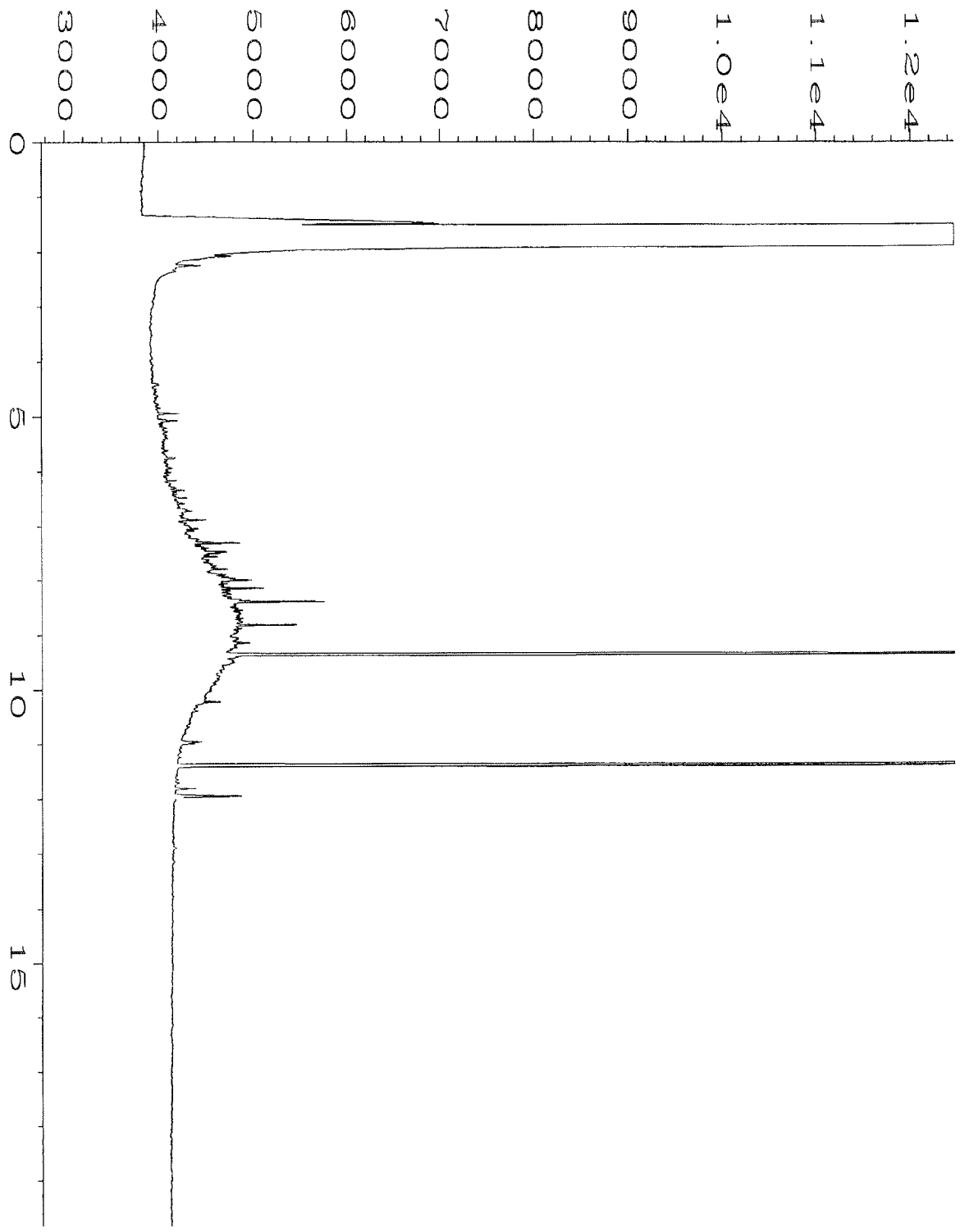
Data File Name : C:\HPCHEM\4\DATA\05-08-12\012F0501.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-05
Run Time Bar Code:
Acquired on : 08 May 12 07:52 PM
Report Created on: 10 May 12 10:25 AM

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 5
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH

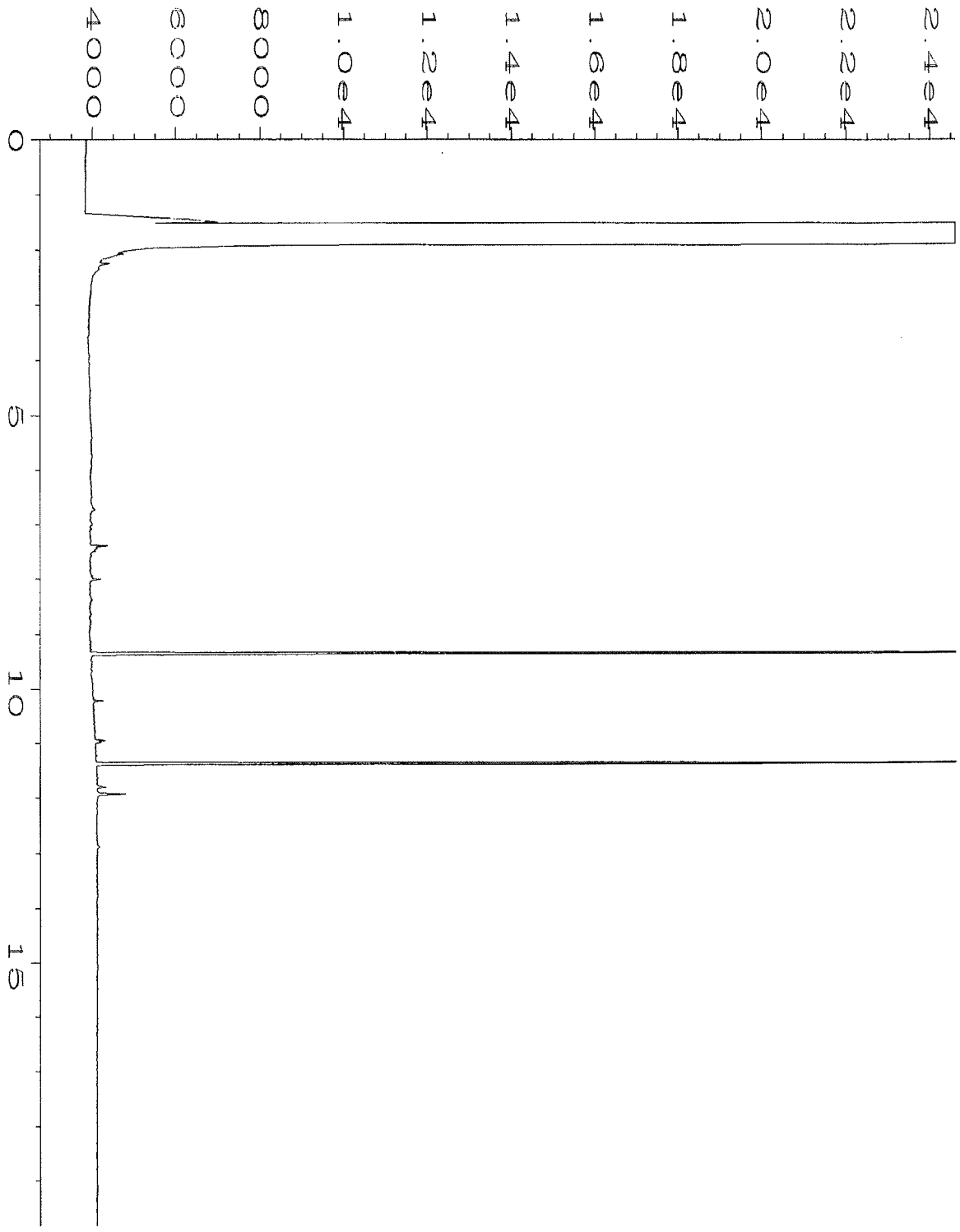


Data File Name : C:\HPCHEM\4\DATA\05-08-12\013F0501.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-08
Run Time Bar Code:
Acquired on : 08 May 12 08:20 PM
Report Created on: 10 May 12 10:25 AM

Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 5
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH

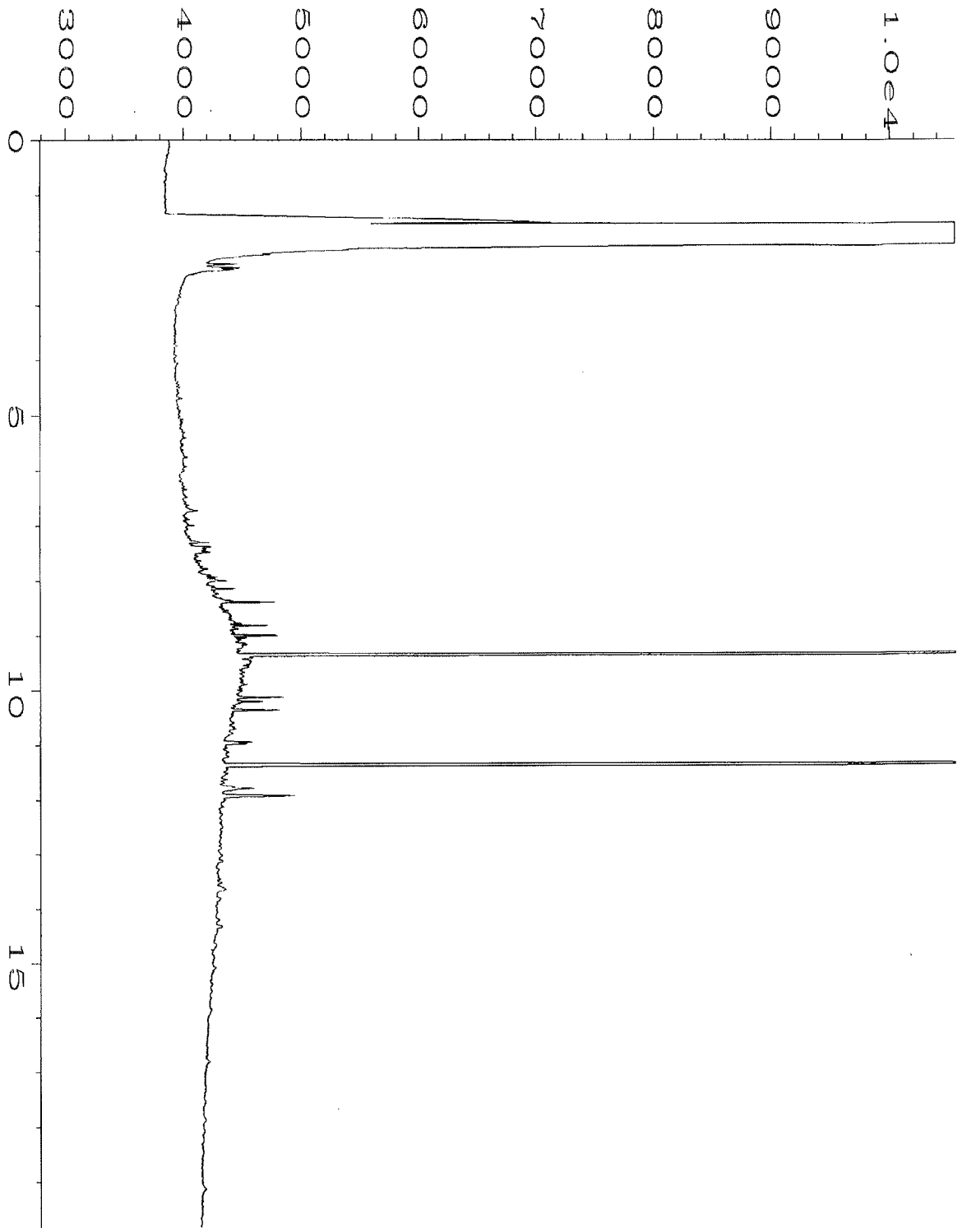


Data File Name	: C:\HPCHEM\4\DATA\05-08-12\014F0501.D		
Operator	: ML	Page Number	: 1
Instrument	: GC#4	Vial Number	: 14
Sample Name	: 205047-09	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 5
Acquired on	: 08 May 12 08:46 PM	Instrument Method	: TPHD.MTH
Report Created on	: 10 May 12 10:25 AM	Analysis Method	: TPHD.MTH



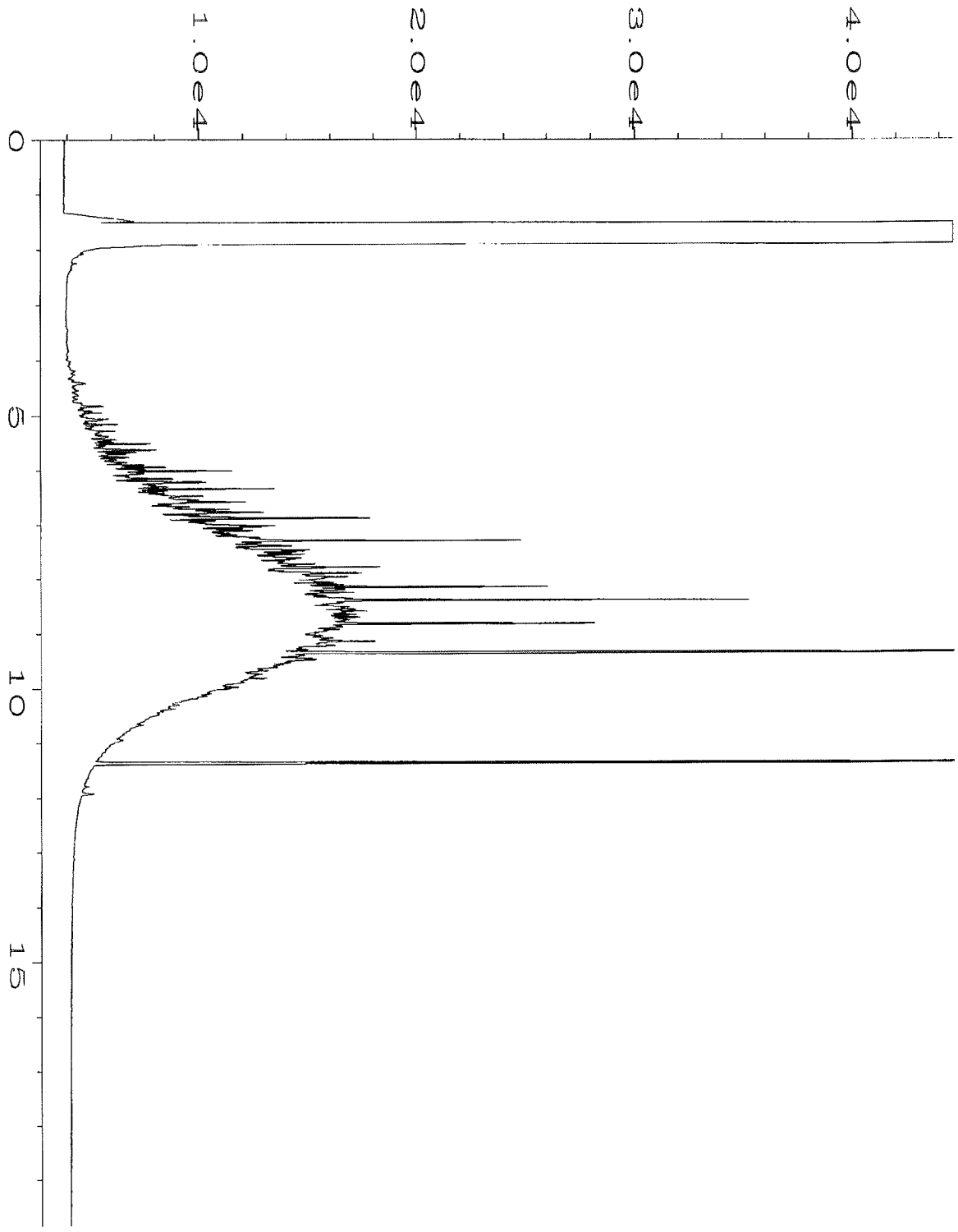
Data File Name : C:\HPCHEM\4\DATA\05-08-12\015F0501.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-11
Run Time Bar Code:
Acquired on : 08 May 12 09:14 PM
Report Created on: 10 May 12 10:25 AM

Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 5
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH

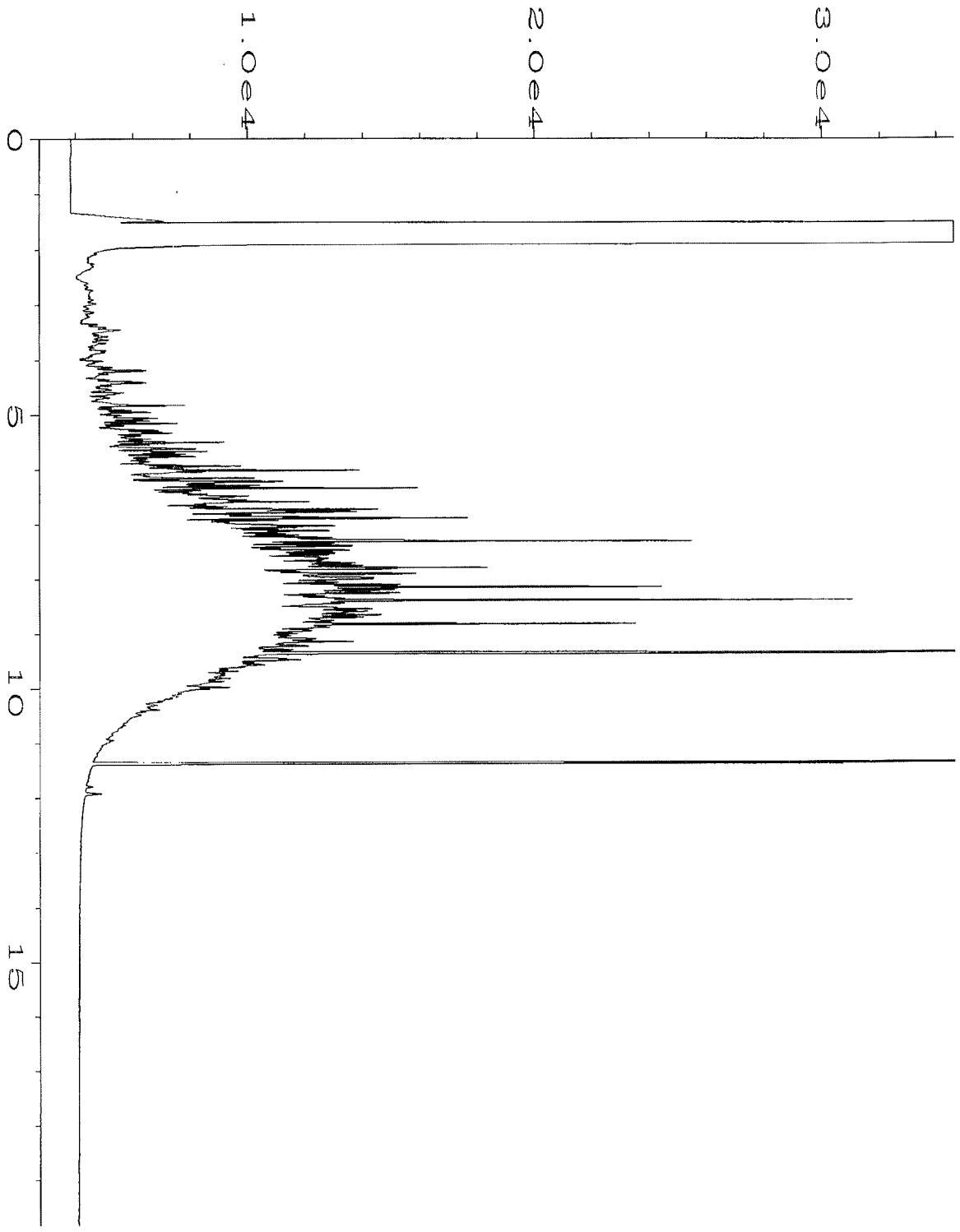


Data File Name : C:\HPCHEM\4\DATA\05-08-12\016F0701.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-13
Run Time Bar Code:
Acquired on : 08 May 12 10:35 PM
Report Created on: 10 May 12 10:26 AM

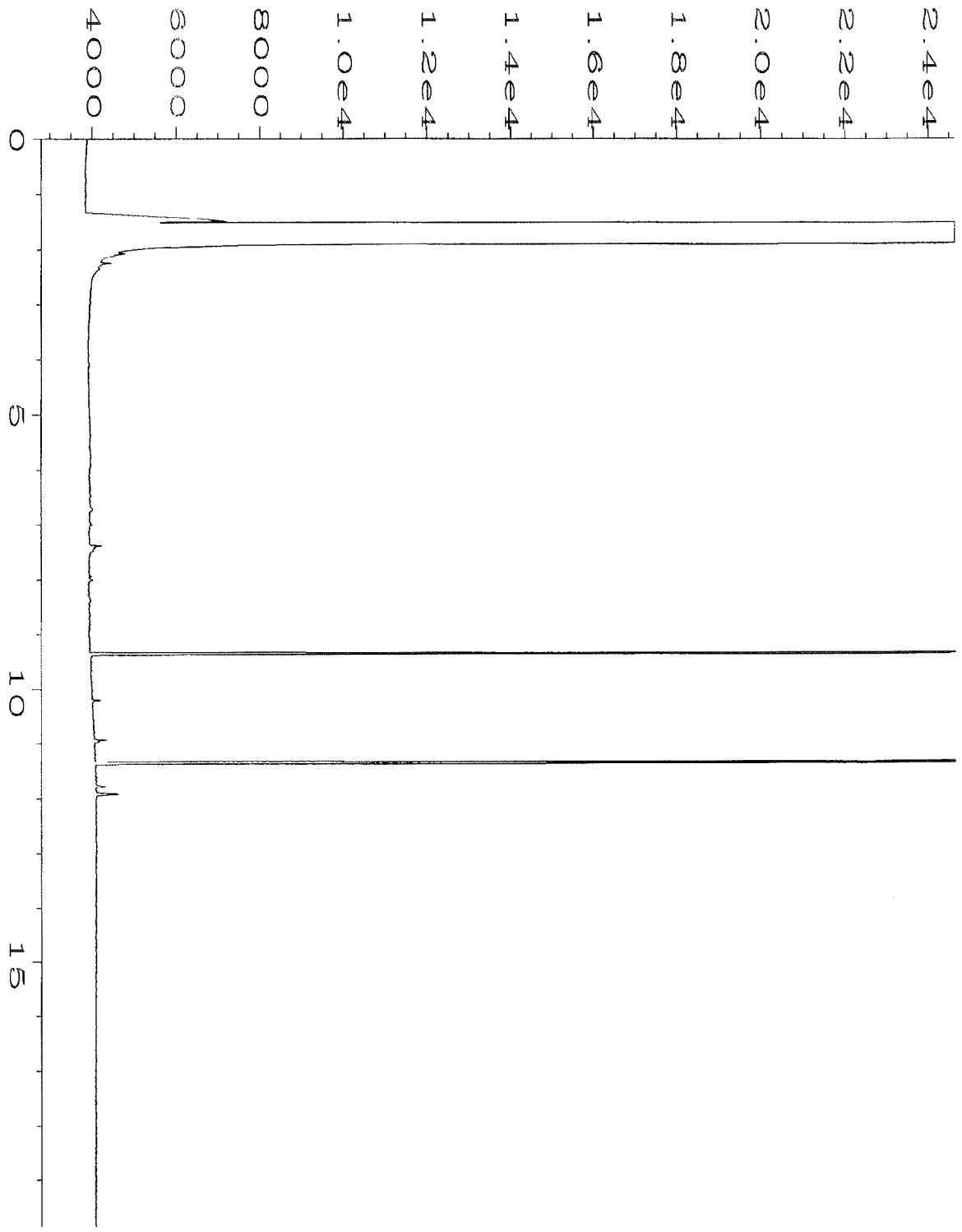
Page Number : 1
Vial Number : 16
Injection Number : 1
Sequence Line : 7
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



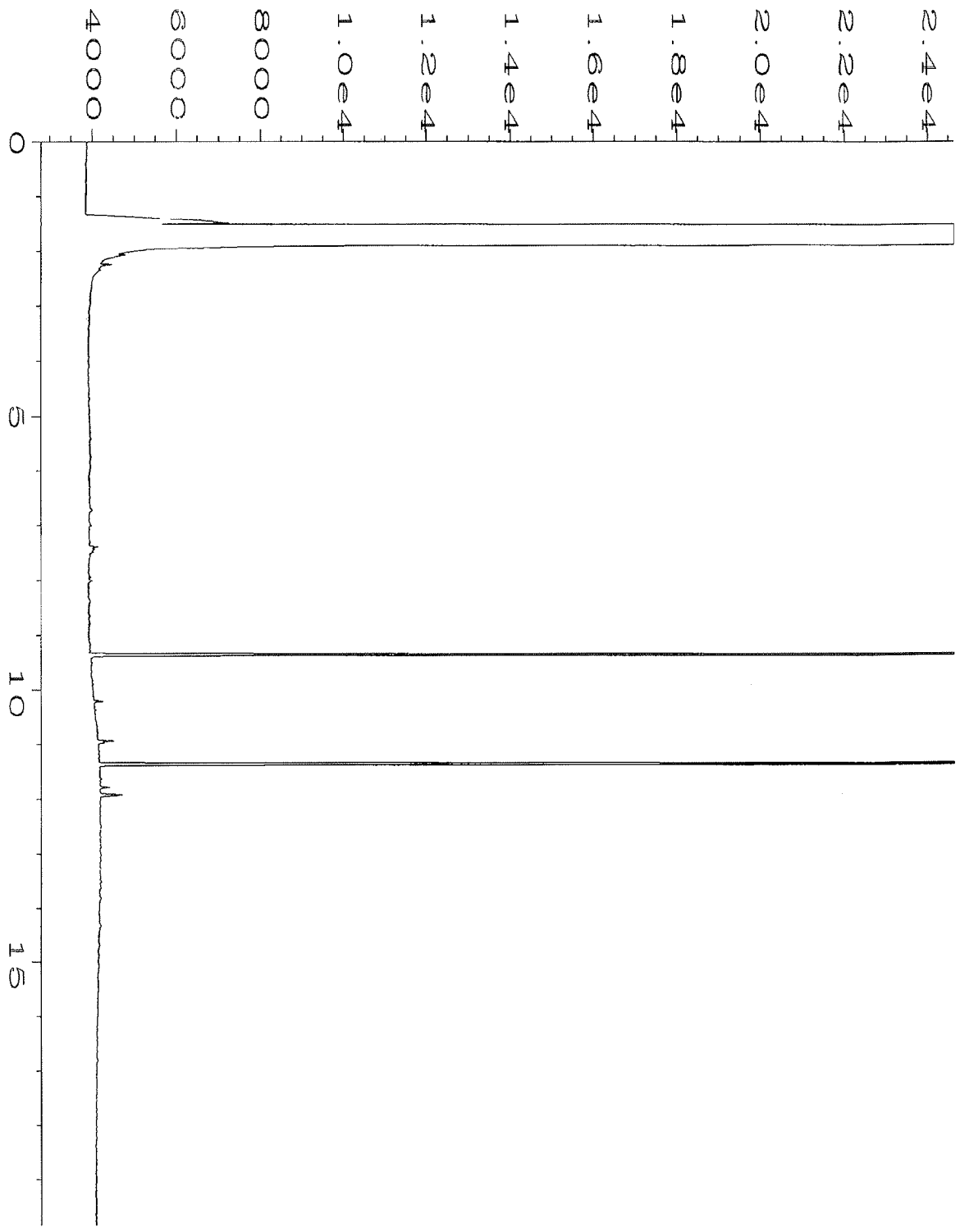
Data File Name	: C:\HPCHEM\4\DATA\05-08-12\017F0701.D		
Operator	: ML	Page Number	: 1
Instrument	: GC#4	Vial Number	: 17
Sample Name	: 205047-15	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 08 May 12 11:02 PM	Instrument Method	: TPHD.MTH
Report Created on	: 10 May 12 10:26 AM	Analysis Method	: TPHD.MTH



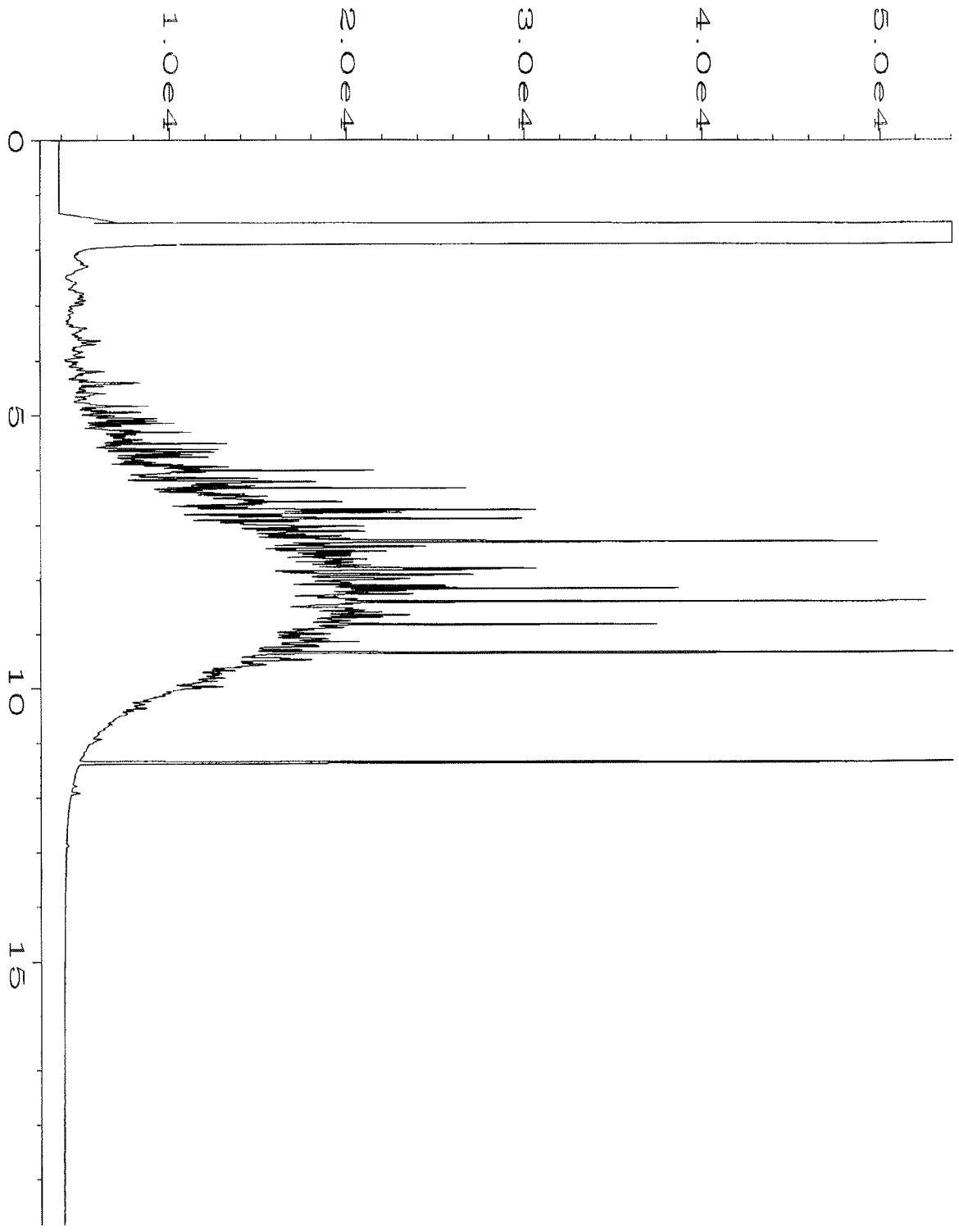
Data File Name	: C:\HPCHEM\4\DATA\05-08-12\018F0701.D		
Operator	: ML	Page Number	: 1
Instrument	: GC#4	Vial Number	: 18
Sample Name	: 205047-16	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 08 May 12 11:29 PM	Instrument Method	: TPHD.MTH
Report Created on	: 10 May 12 10:26 AM	Analysis Method	: TPHD.MTH



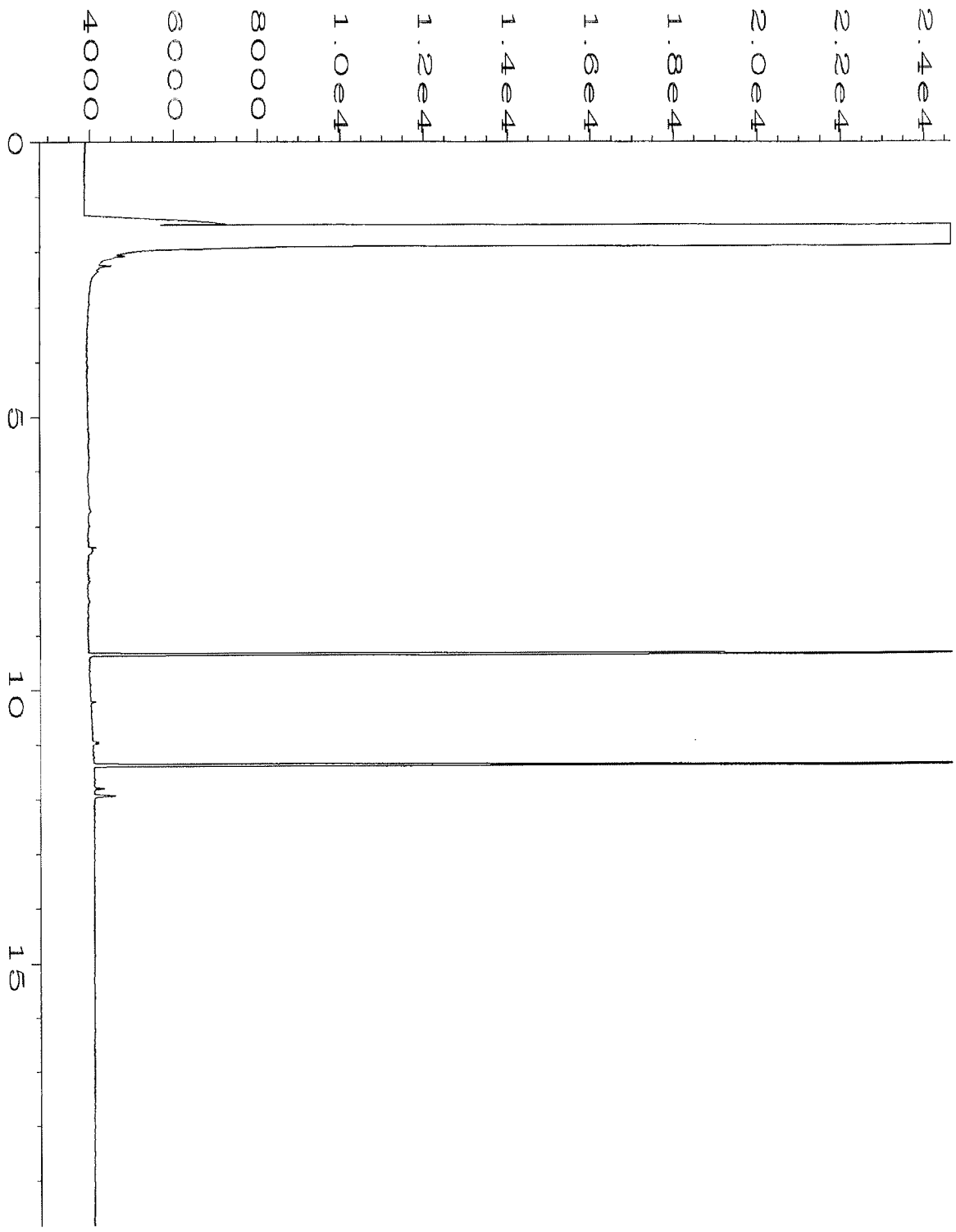
Data File Name	: C:\HPCHEM\4\DATA\05-08-12\019F0701.D		
Operator	: ML	Page Number	: 1
Instrument	: GC#4	Vial Number	: 19
Sample Name	: 205047-18	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 08 May 12 11:56 PM	Instrument Method	: TPHD.MTH
Report Created on	: 10 May 12 10:26 AM	Analysis Method	: TPHD.MTH



Data File Name	: C:\HPCHEM\4\DATA\05-08-12\020F0701.D		
Operator	: ML	Page Number	: 1
Instrument	: GC#4	Vial Number	: 20
Sample Name	: 205047-20	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 09 May 12 00:23 AM	Instrument Method	: TPHD.MTH
Report Created on	: 10 May 12 10:26 AM	Analysis Method	: TPHD.MTH

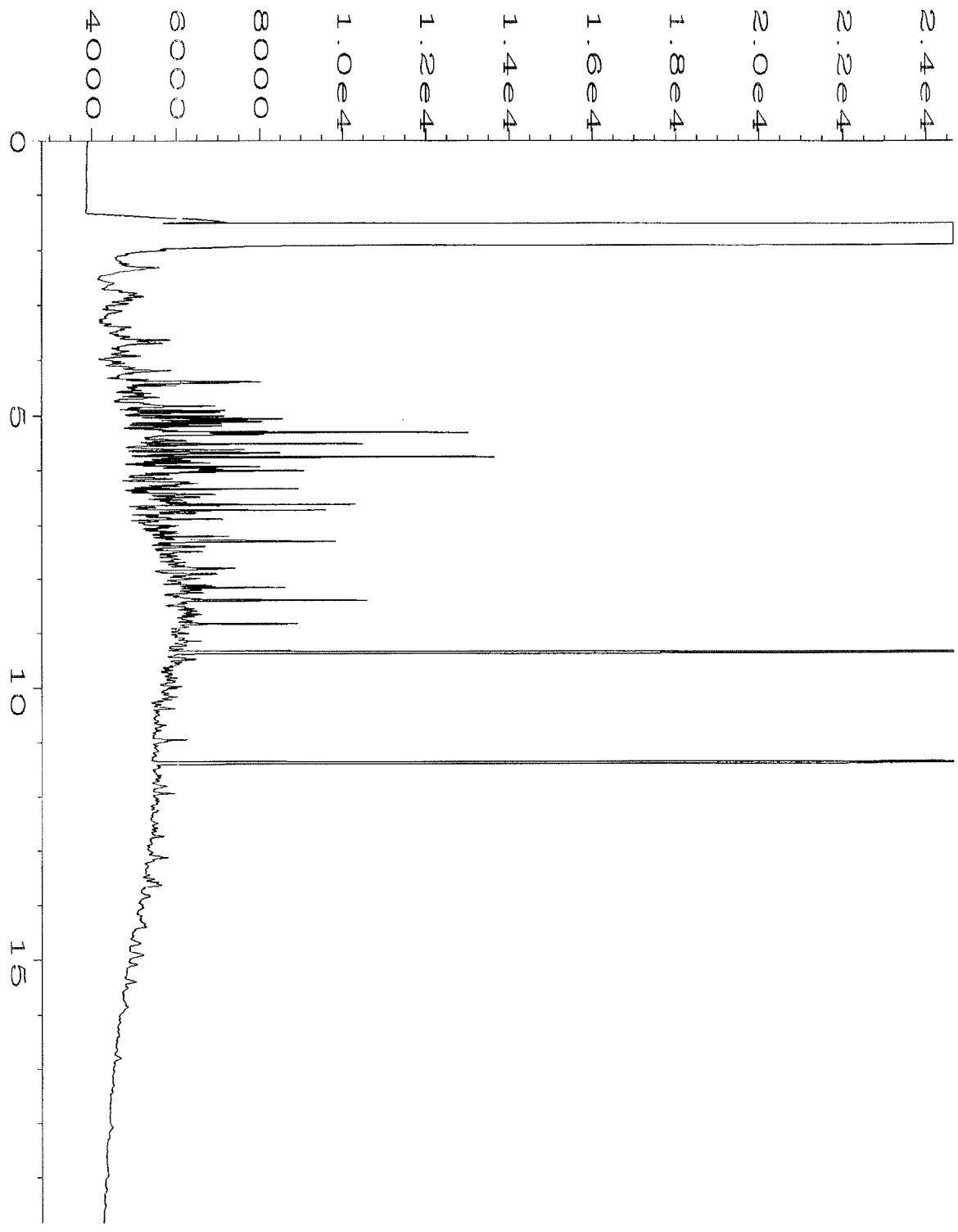


Data File Name	: C:\HPCHEM\4\DATA\05-08-12\021F0701.D		
Operator	: ML	Page Number	: 1
Instrument	: GC#4	Vial Number	: 21
Sample Name	: 205047-21	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 09 May 12 00:50 AM	Instrument Method	: TPHD.MTH
Report Created on	: 10 May 12 10:27 AM	Analysis Method	: TPHD.MTH



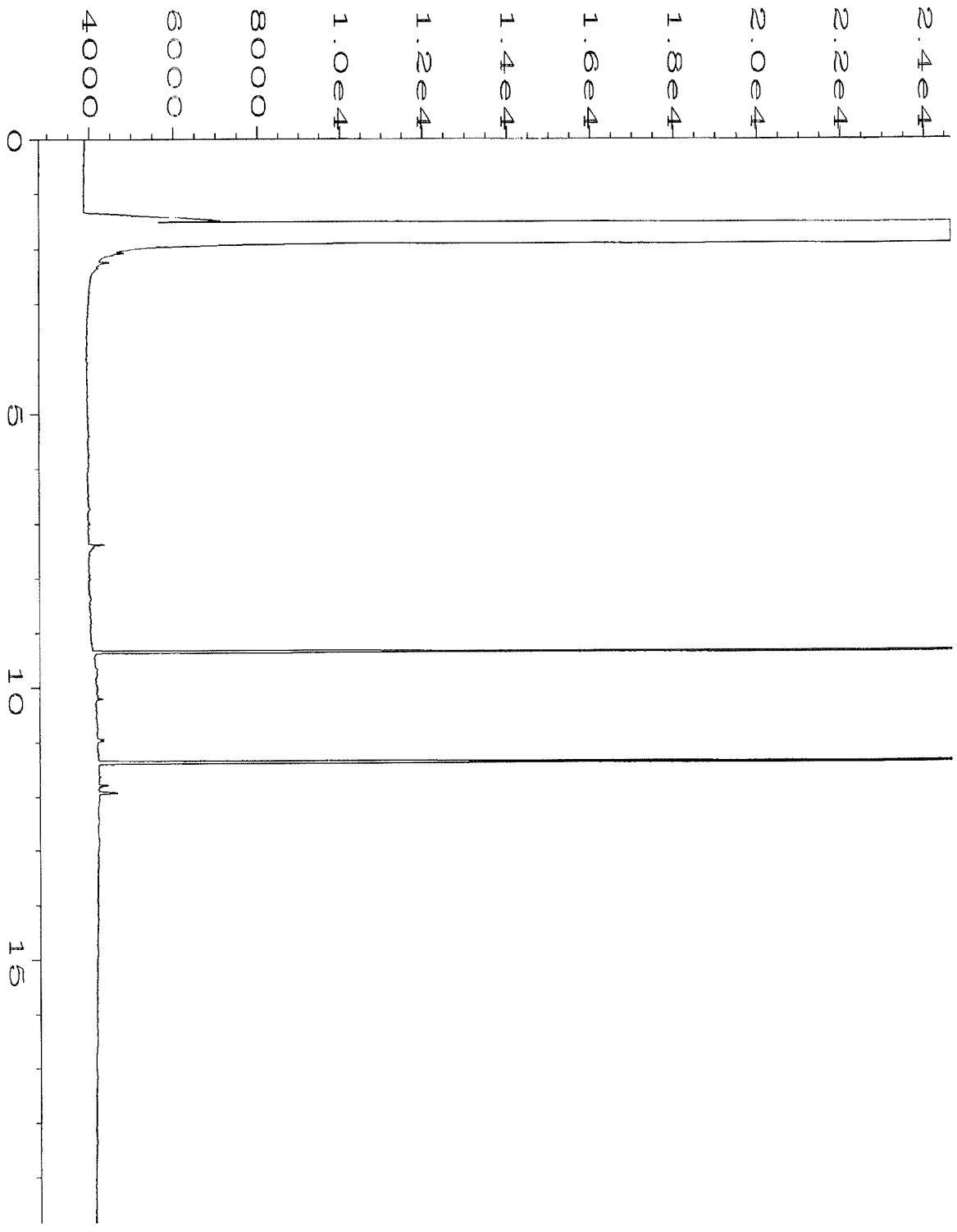
Data File Name : C:\HPCHEM\4\DATA\05-08-12\022F0701.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-24
Run Time Bar Code:
Acquired on : 09 May 12 01:17 AM
Report Created on: 10 May 12 10:27 AM

Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 7
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



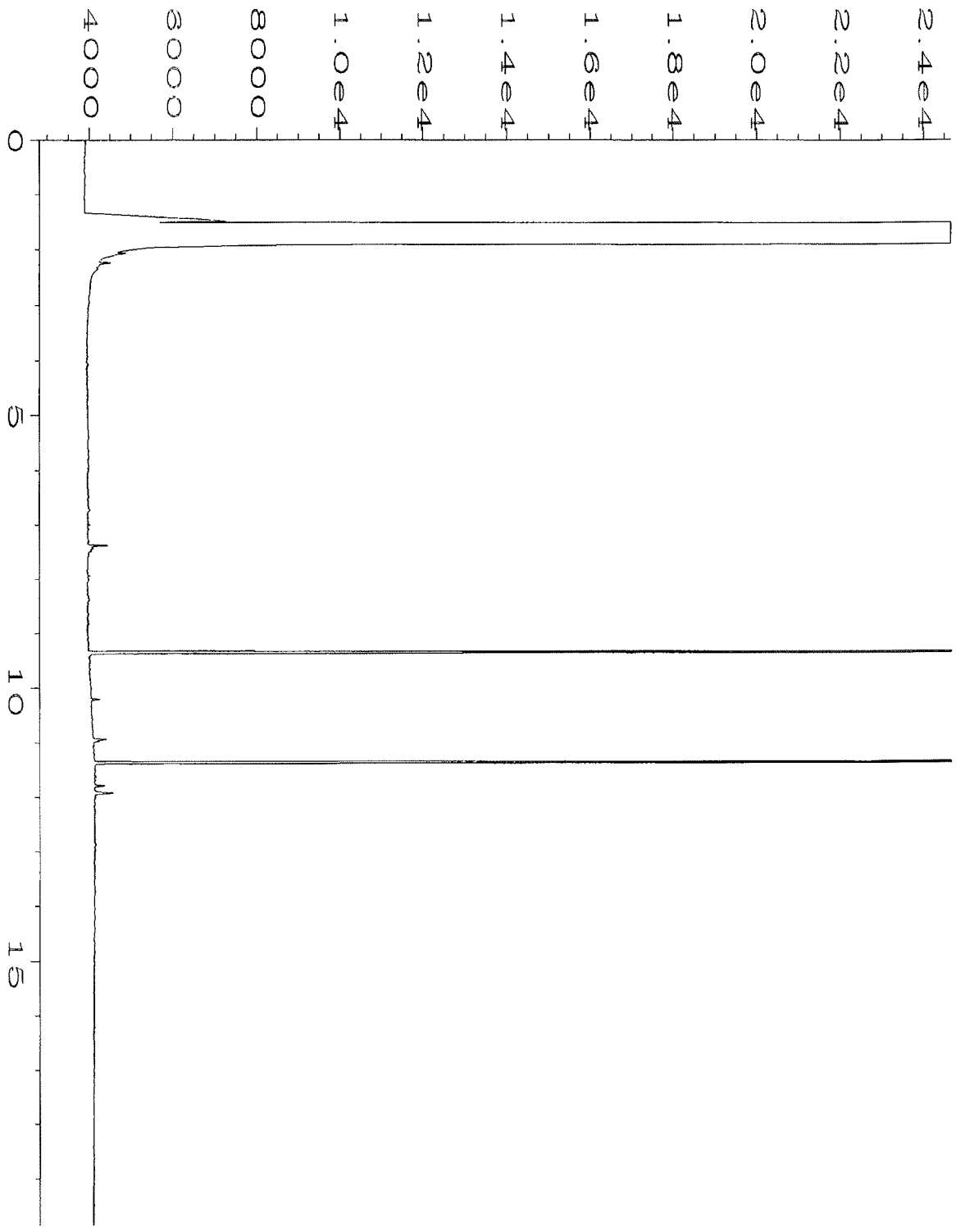
Data File Name : C:\HPCHEM\4\DATA\05-08-12\023F0701.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-25
Run Time Bar Code:
Acquired on : 09 May 12 01:44 AM
Report Created on: 10 May 12 10:27 AM

Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 7
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



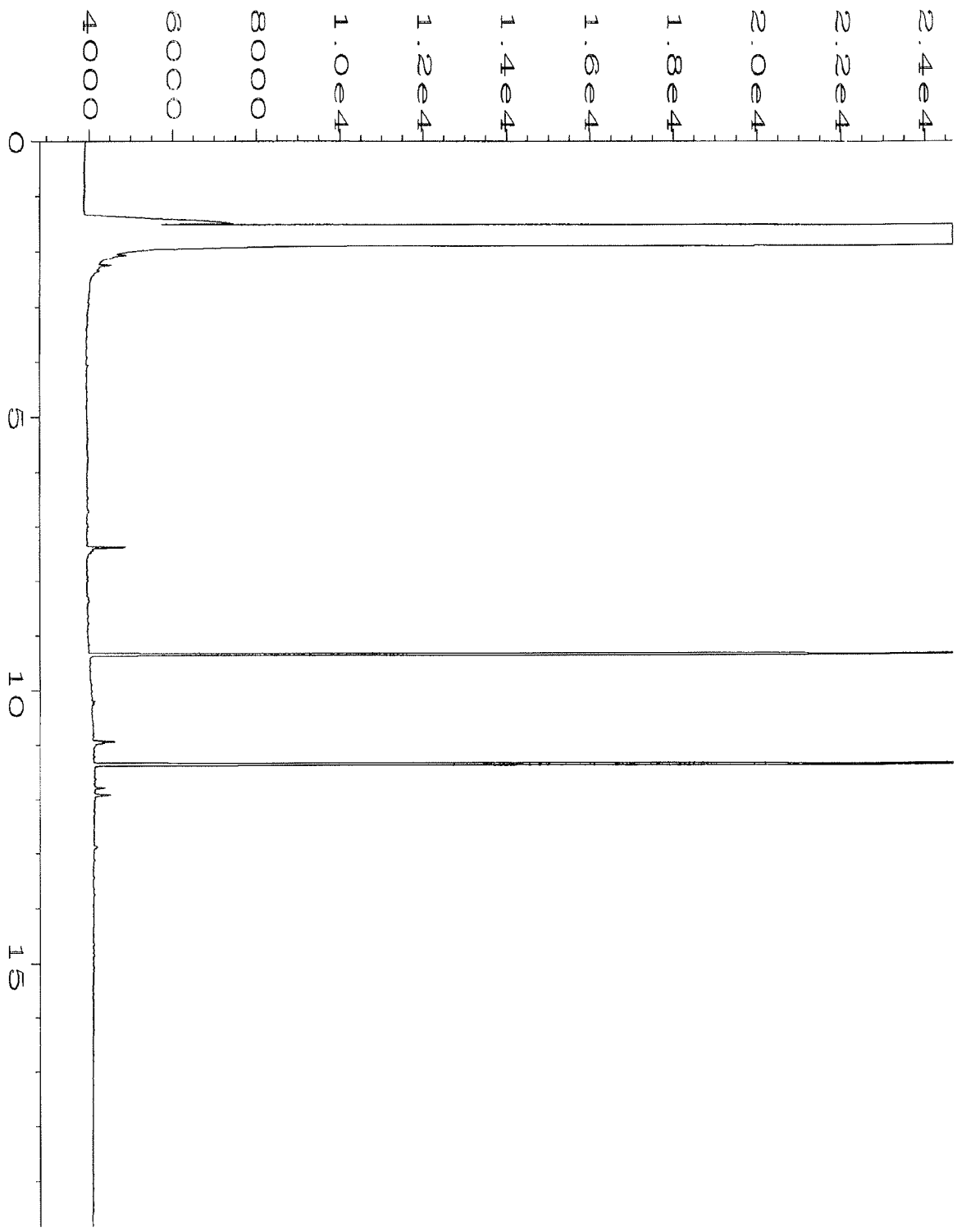
Data File Name : C:\HPCHEM\4\DATA\05-08-12\024F0701.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-29
Run Time Bar Code:
Acquired on : 09 May 12 02:11 AM
Report Created on: 10 May 12 10:27 AM

Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 7
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



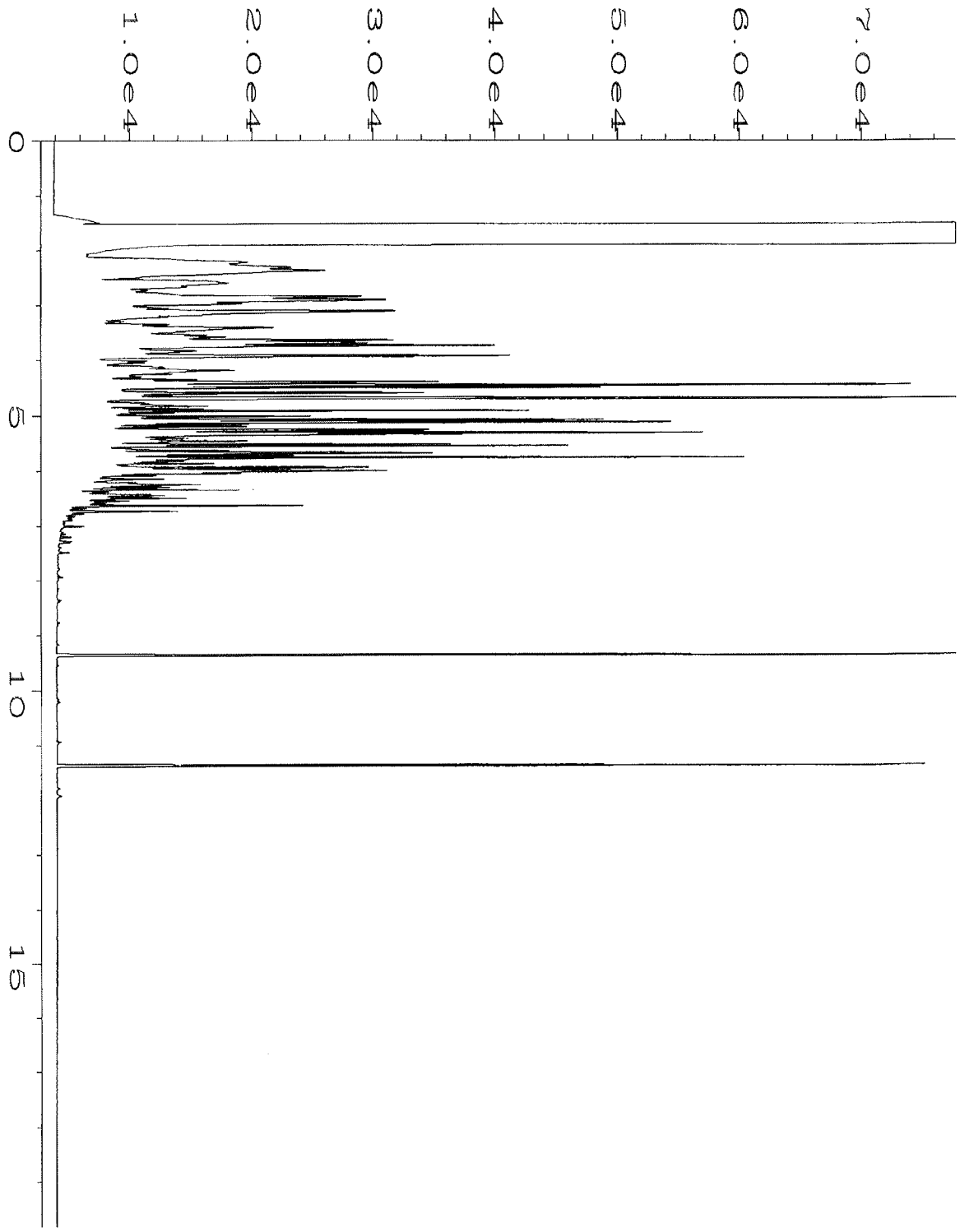
Data File Name : C:\HPCHEM\4\DATA\05-08-12\025F0701.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-30
Run Time Bar Code:
Acquired on : 09 May 12 02:38 AM
Report Created on: 10 May 12 10:27 AM

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 7
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



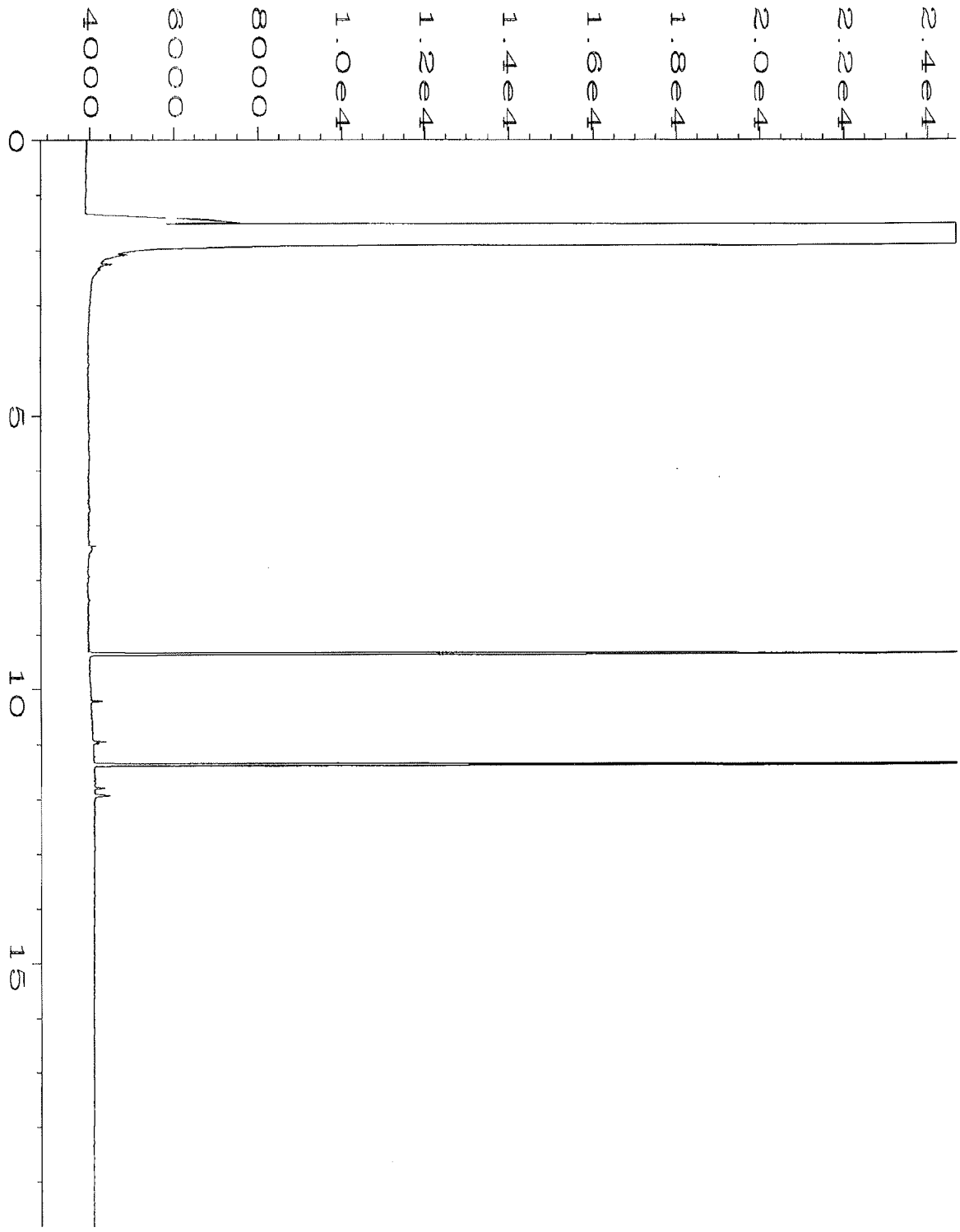
Data File Name : C:\HPCHEM\4\DATA\05-08-12\026F0901.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-32
Run Time Bar Code:
Acquired on : 09 May 12 03:58 AM
Report Created on: 10 May 12 10:27 AM

Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 9
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



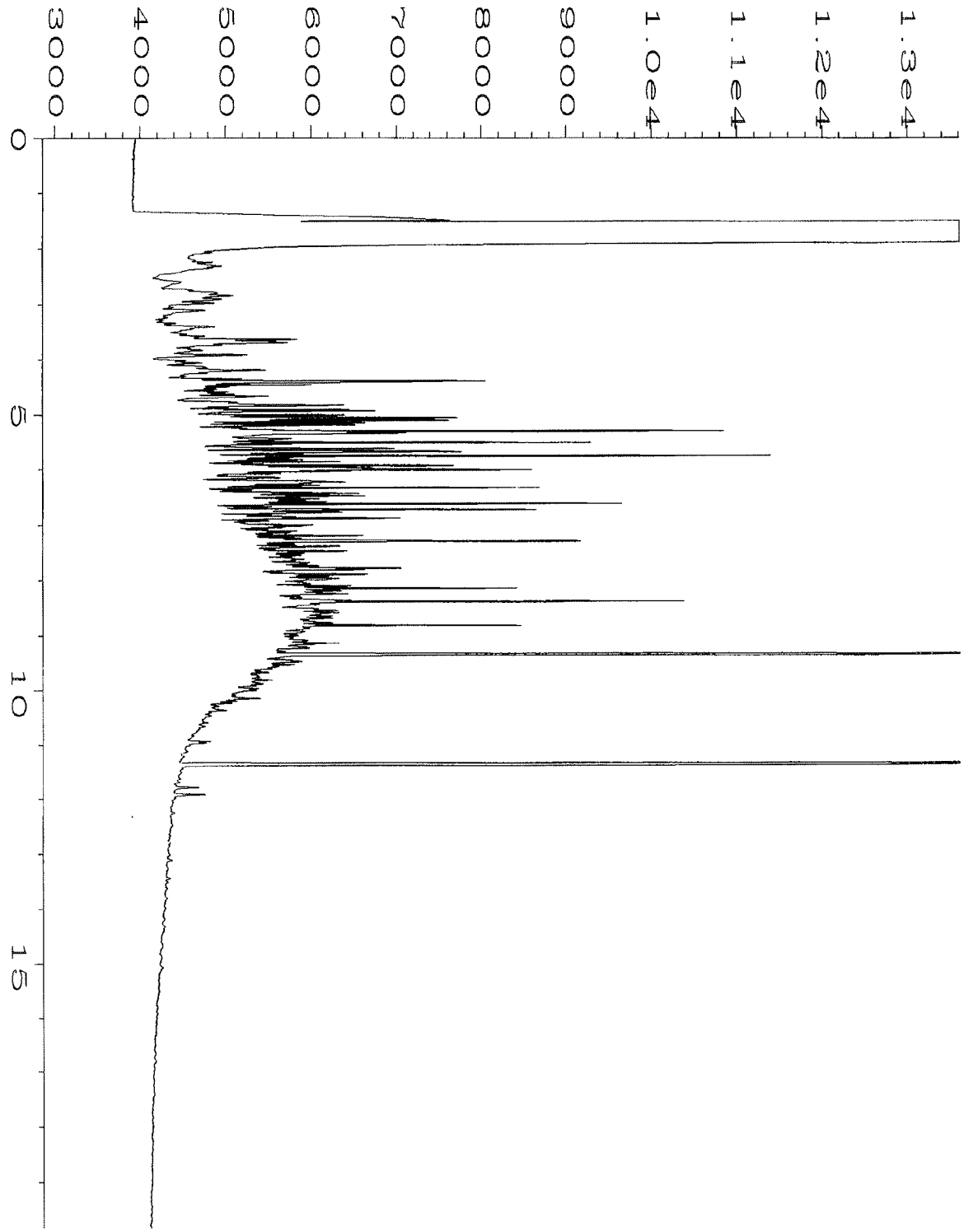
Data File Name : C:\HPCHEM\4\DATA\05-08-12\027F0901.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-34
Run Time Bar Code:
Acquired on : 09 May 12 04:25 AM
Report Created on: 10 May 12 10:27 AM

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 9
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



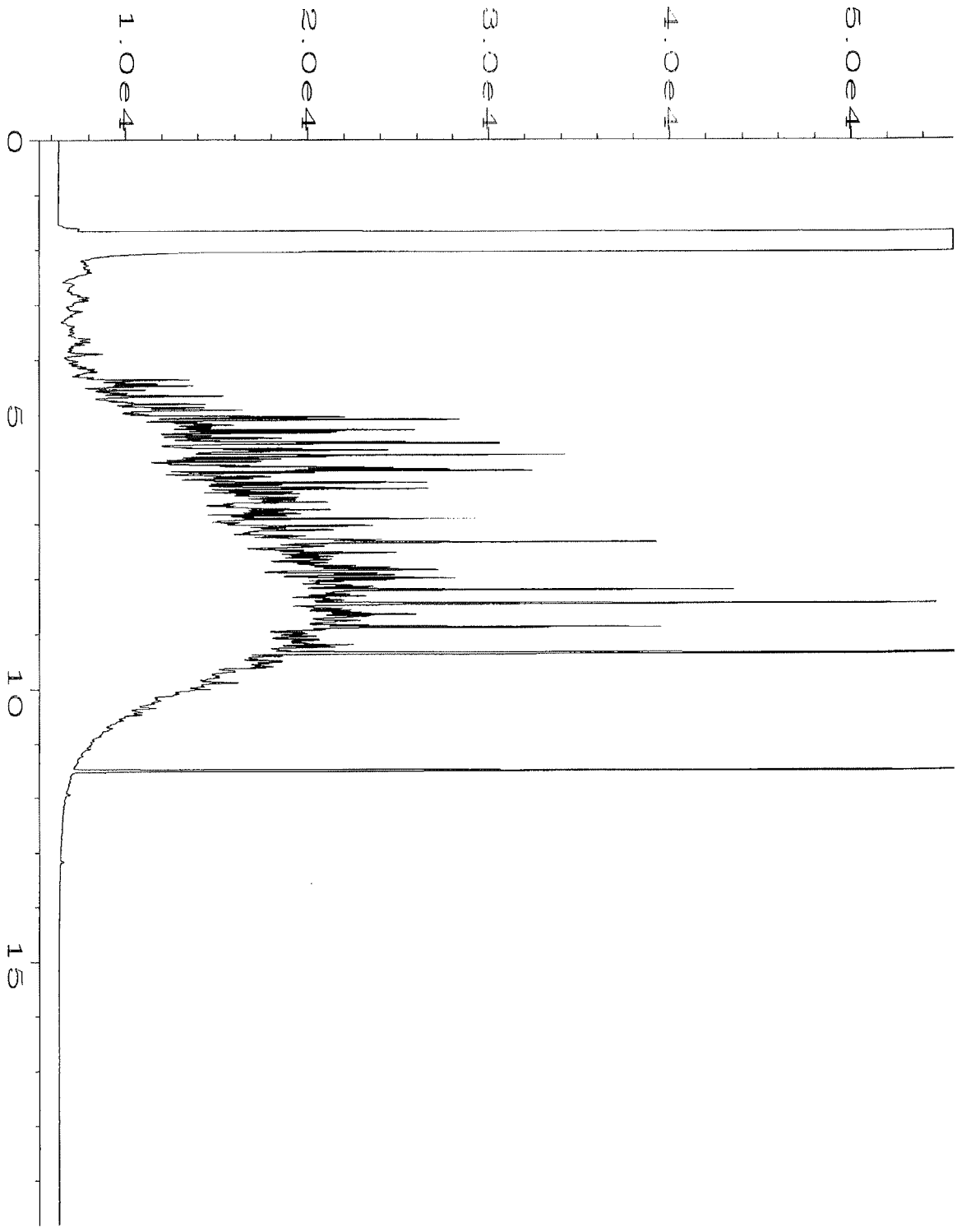
Data File Name : C:\HPCHEM\4\DATA\05-08-12\028F0901.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-36
Run Time Bar Code:
Acquired on : 09 May 12 04:51 AM
Report Created on: 10 May 12 10:28 AM

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 9
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH

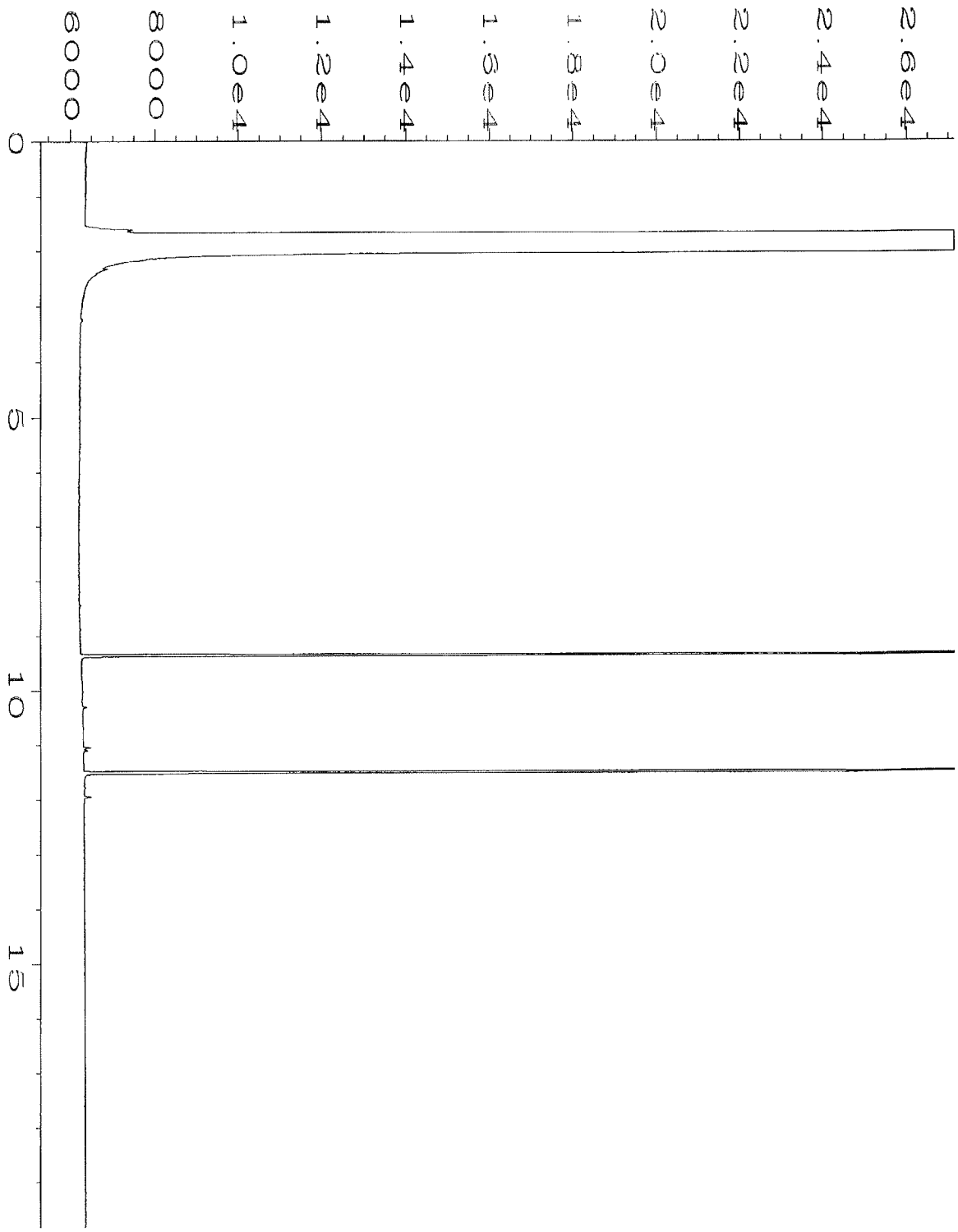


Data File Name : C:\HPCHEM\4\DATA\05-08-12\029F0901.D
Operator : ML
Instrument : GC#4
Sample Name : 205047-37
Run Time Bar Code:
Acquired on : 09 May 12 05:18 AM
Report Created on: 10 May 12 10:28 AM

Page Number : 1
Vial Number : 29
Injection Number : 1
Sequence Line : 9
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH

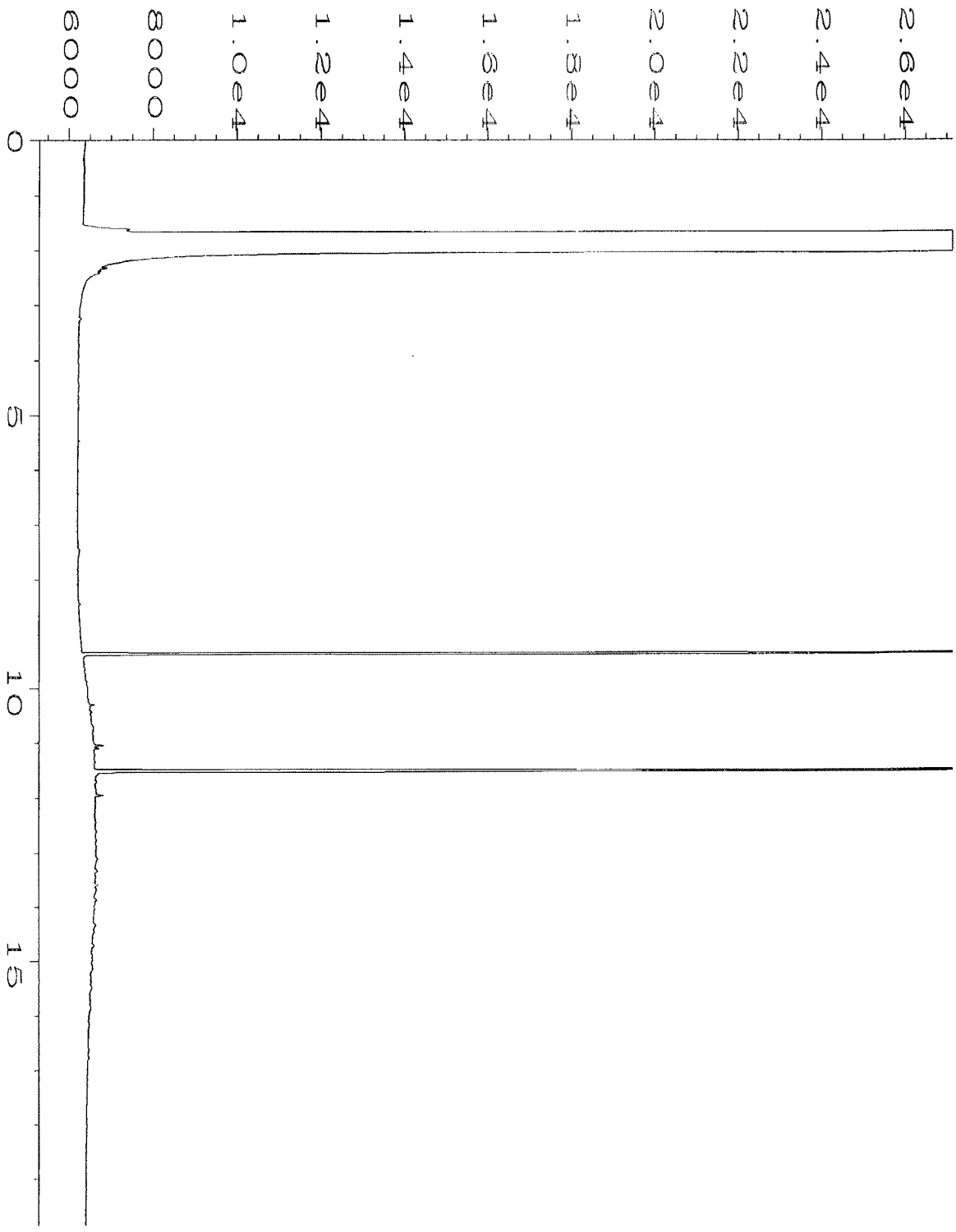


Data File Name	: C:\HPCHEM\1\DATA\05-07-12\021F0701.D		
Operator	: ML	Page Number	: 1
Instrument	: GC1	Vial Number	: 21
Sample Name	: 205047-41	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 07 May 12 09:17 PM	Instrument Method	: TPHD.MTH
Report Created on	: 08 May 12 10:27 AM	Analysis Method	: TPHD.MTH

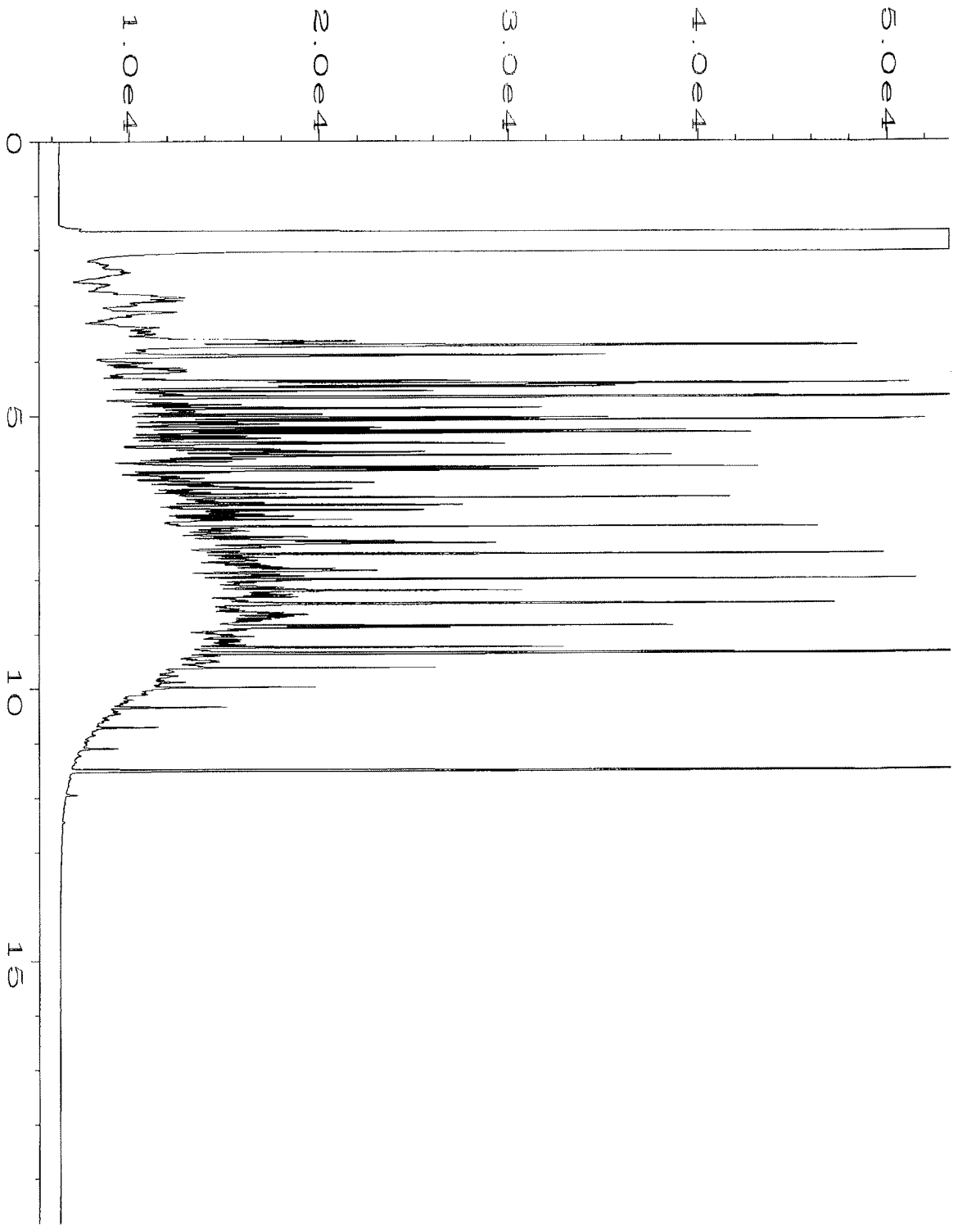


Data File Name : C:\HPCHEM\1\DATA\05-07-12\022F0901.D
Operator : ML
Instrument : GC1
Sample Name : 205047-42
Run Time Bar Code:
Acquired on : 07 May 12 10:42 PM
Report Created on: 08 May 12 10:27 AM

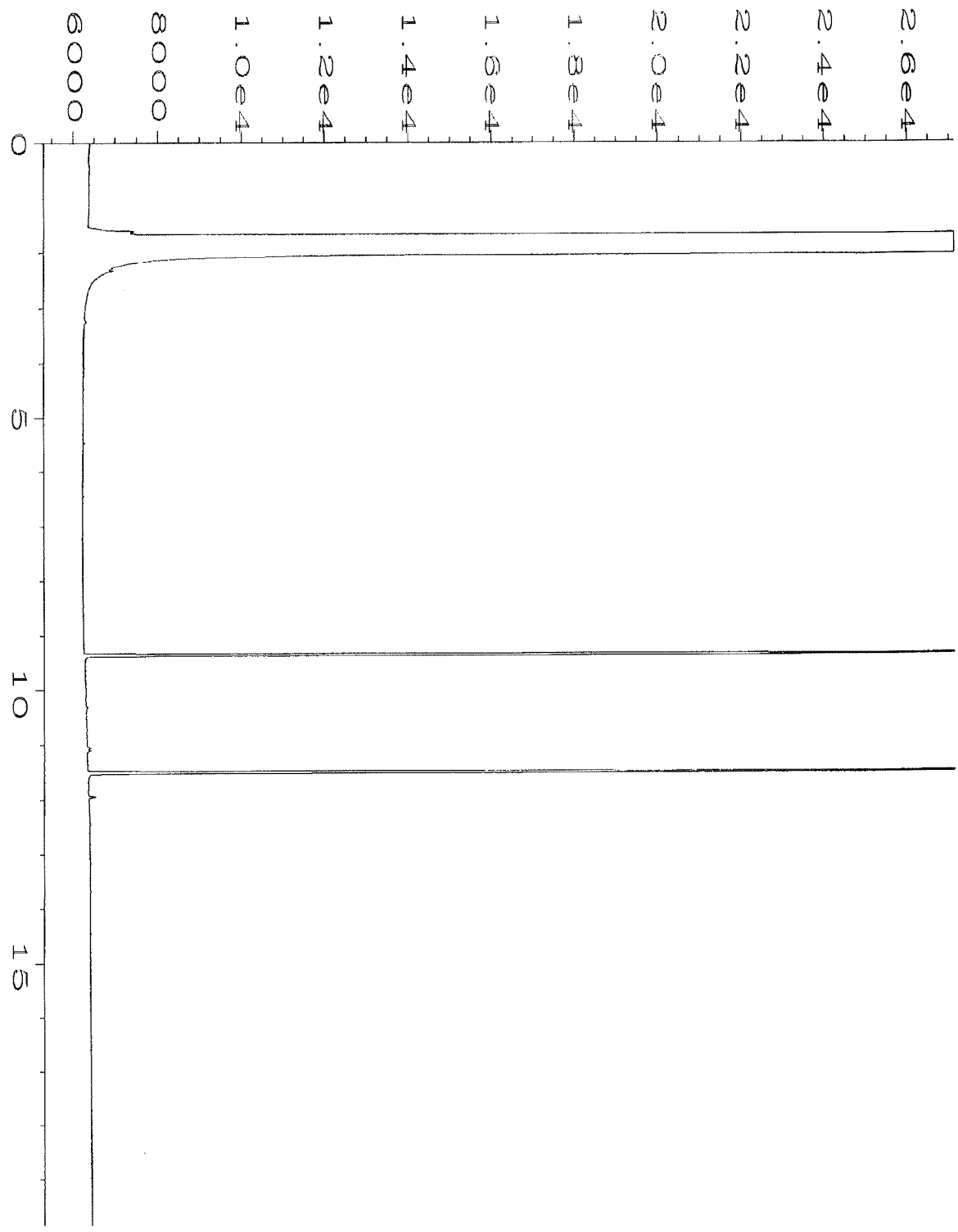
Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 9
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



Data File Name	: C:\HPCHEM\1\DATA\05-07-12\023F0901.D		
Operator	: ML	Page Number	: 1
Instrument	: GC1	Vial Number	: 23
Sample Name	: 205047-43	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 07 May 12 11:10 PM	Instrument Method	: TPHD.MTH
Report Created on	: 08 May 12 10:27 AM	Analysis Method	: TPHD.MTH

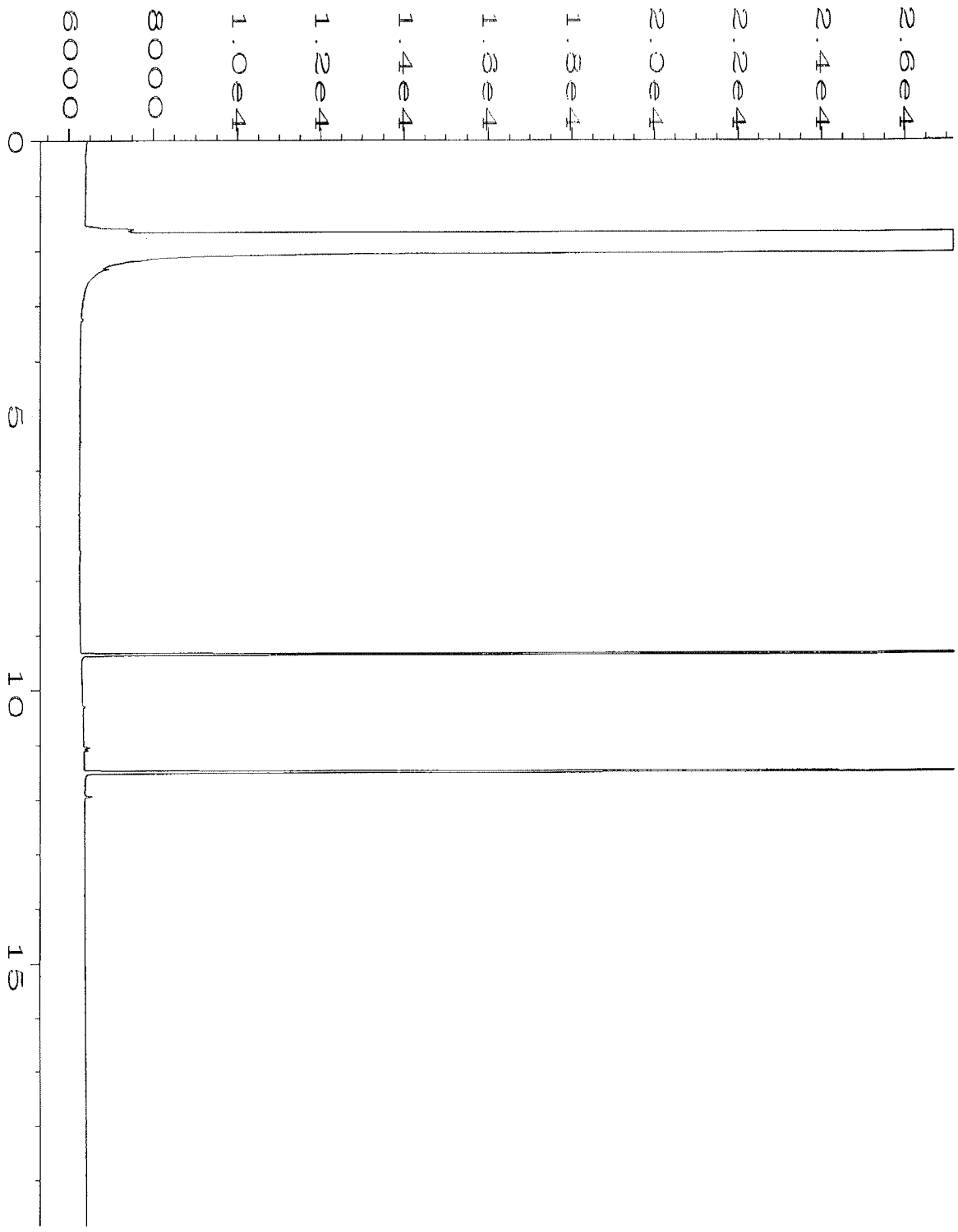


Data File Name	: C:\HPCHEM\1\DATA\05-07-12\024F0901.D		
Operator	: ML	Page Number	: 1
Instrument	: GC1	Vial Number	: 24
Sample Name	: 205047-45	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 07 May 12 11:38 PM	Instrument Method	: TPHD.MTH
Report Created on	: 08 May 12 10:27 AM	Analysis Method	: TPHD.MTH



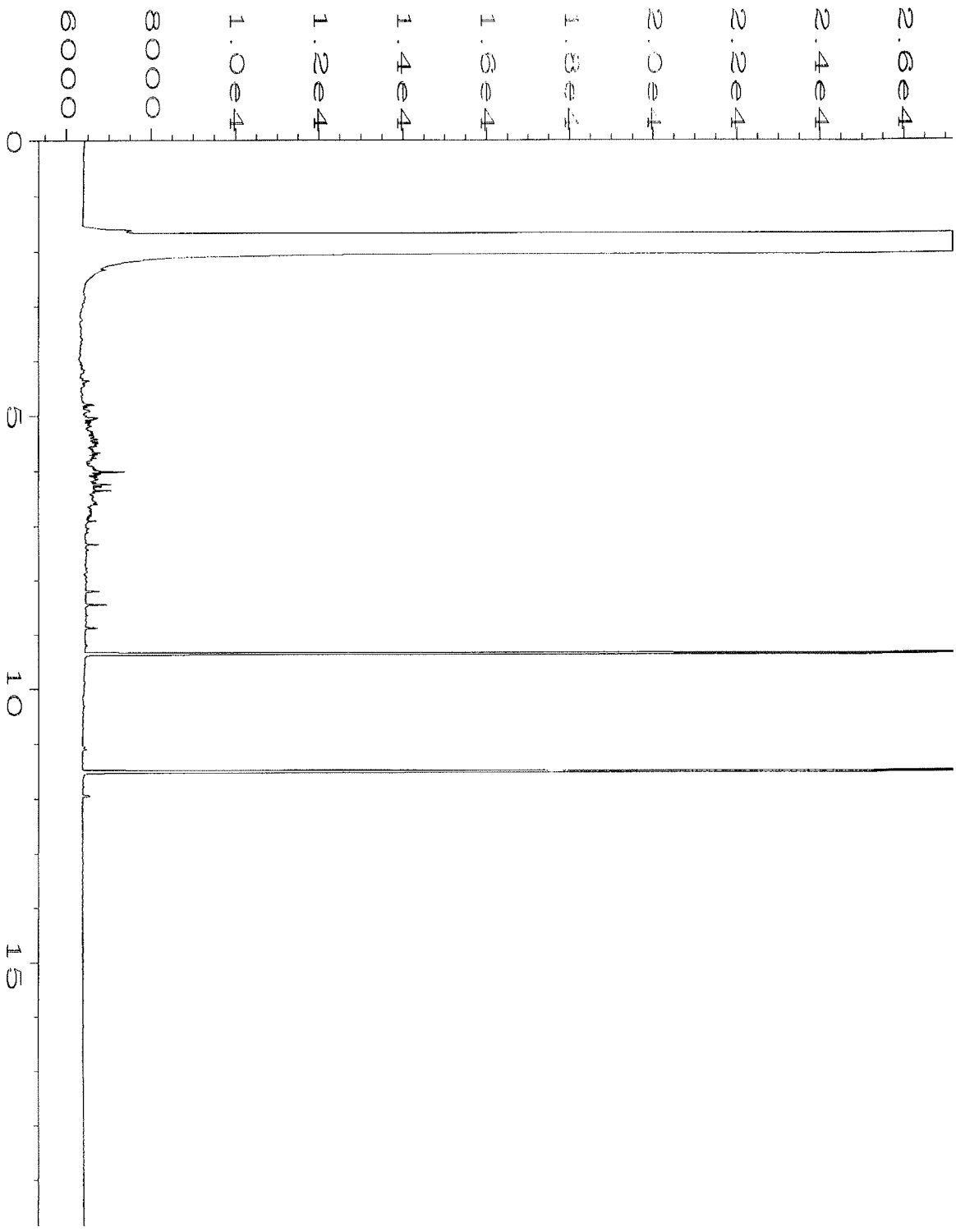
Data File Name : C:\HPCHEM\1\DATA\05-07-12\025F0901.D
Operator : ML
Instrument : GC1
Sample Name : 205047-48
Run Time Bar Code:
Acquired on : 08 May 12 00:07 AM
Report Created on: 08 May 12 10:27 AM

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 9
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



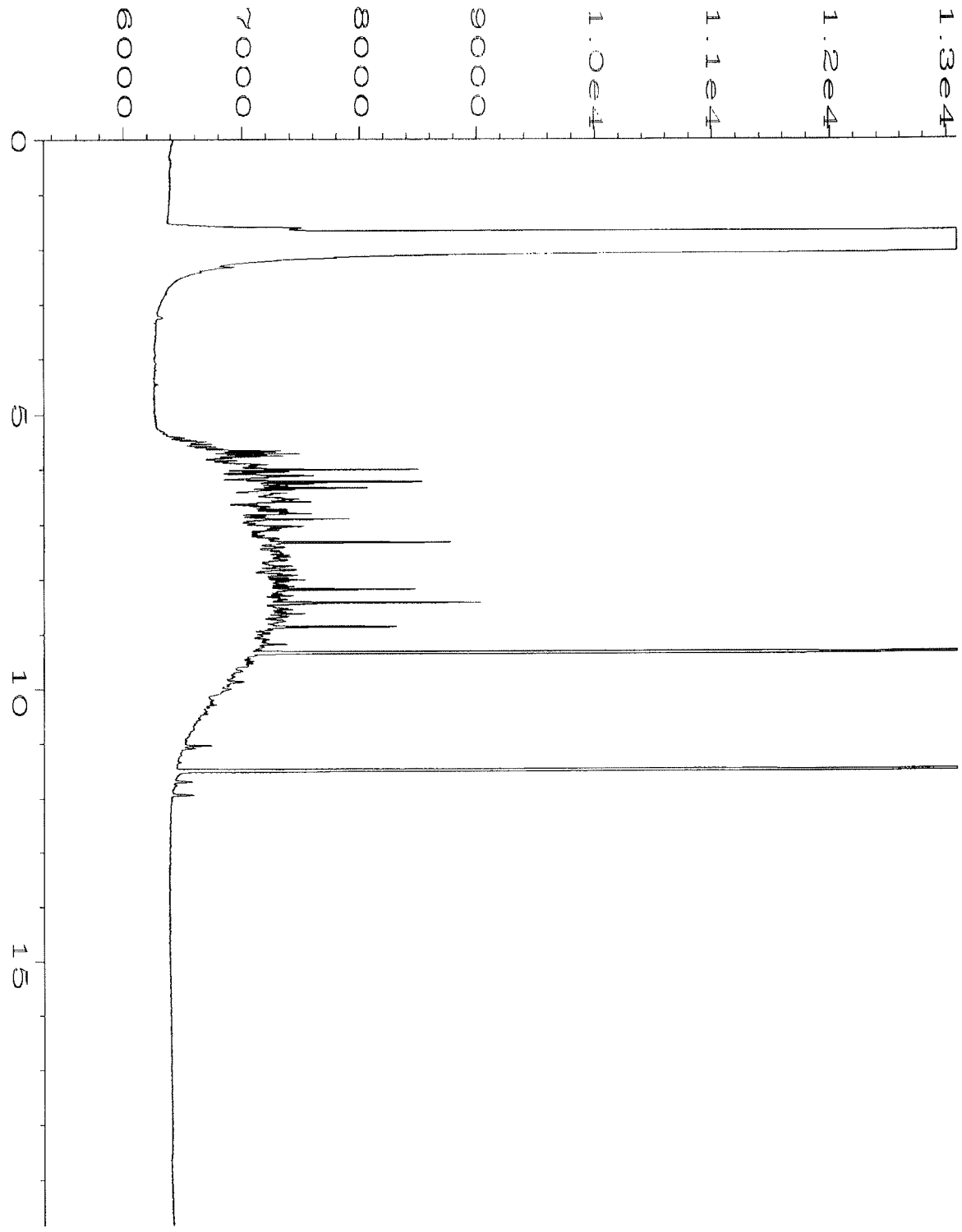
Data File Name : C:\HPCHEM\1\DATA\05-07-12\026F0901.D
Operator : ML
Instrument : GC1
Sample Name : 205047-51
Run Time Bar Code:
Acquired on : 08 May 12 00:35 AM
Report Created on: 08 May 12 10:27 AM

Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 9
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



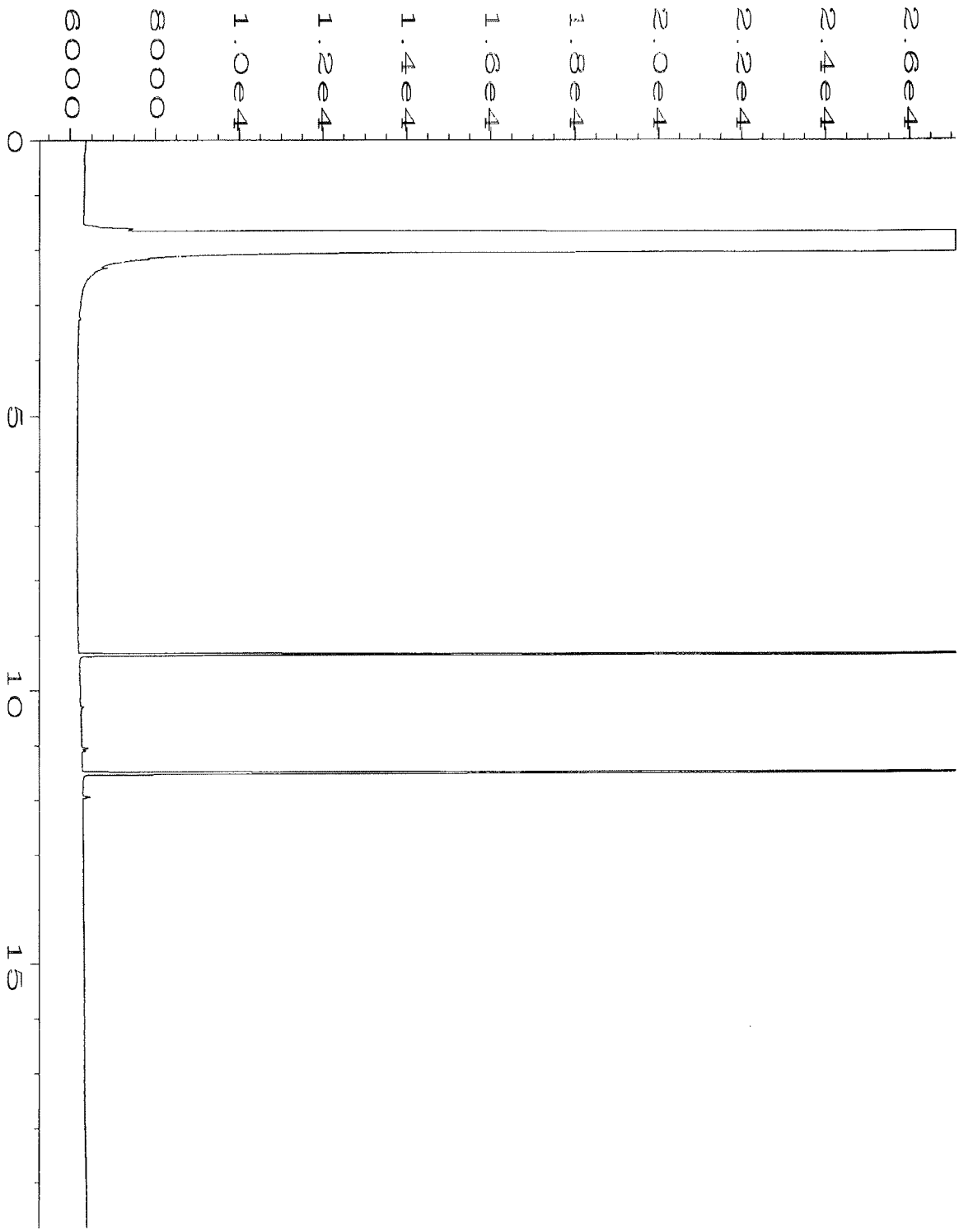
Data File Name : C:\HPCHEM\1\DATA\05-07-12\027F0901.D
Operator : ML
Instrument : GC1
Sample Name : 205047-52
Run Time Bar Code:
Acquired on : 08 May 12 01:03 AM
Report Created on: 08 May 12 10:27 AM

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 9
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH

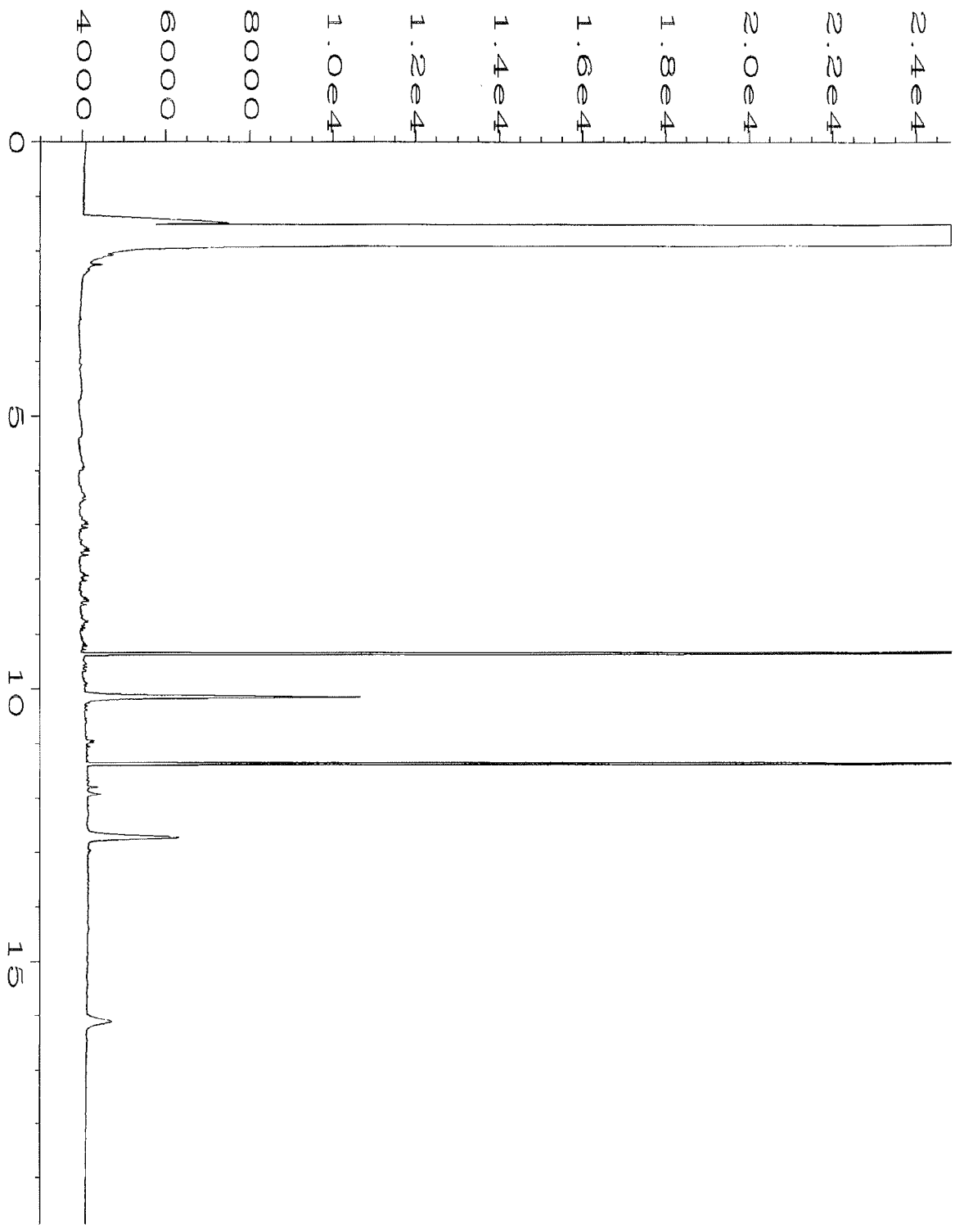


Data File Name : C:\HPCHEM\1\DATA\05-07-12\028F0901.D
Operator : ML
Instrument : GC1
Sample Name : 205047-54
Run Time Bar Code:
Acquired on : 08 May 12 01:31 AM
Report Created on: 08 May 12 10:27 AM

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 9
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH

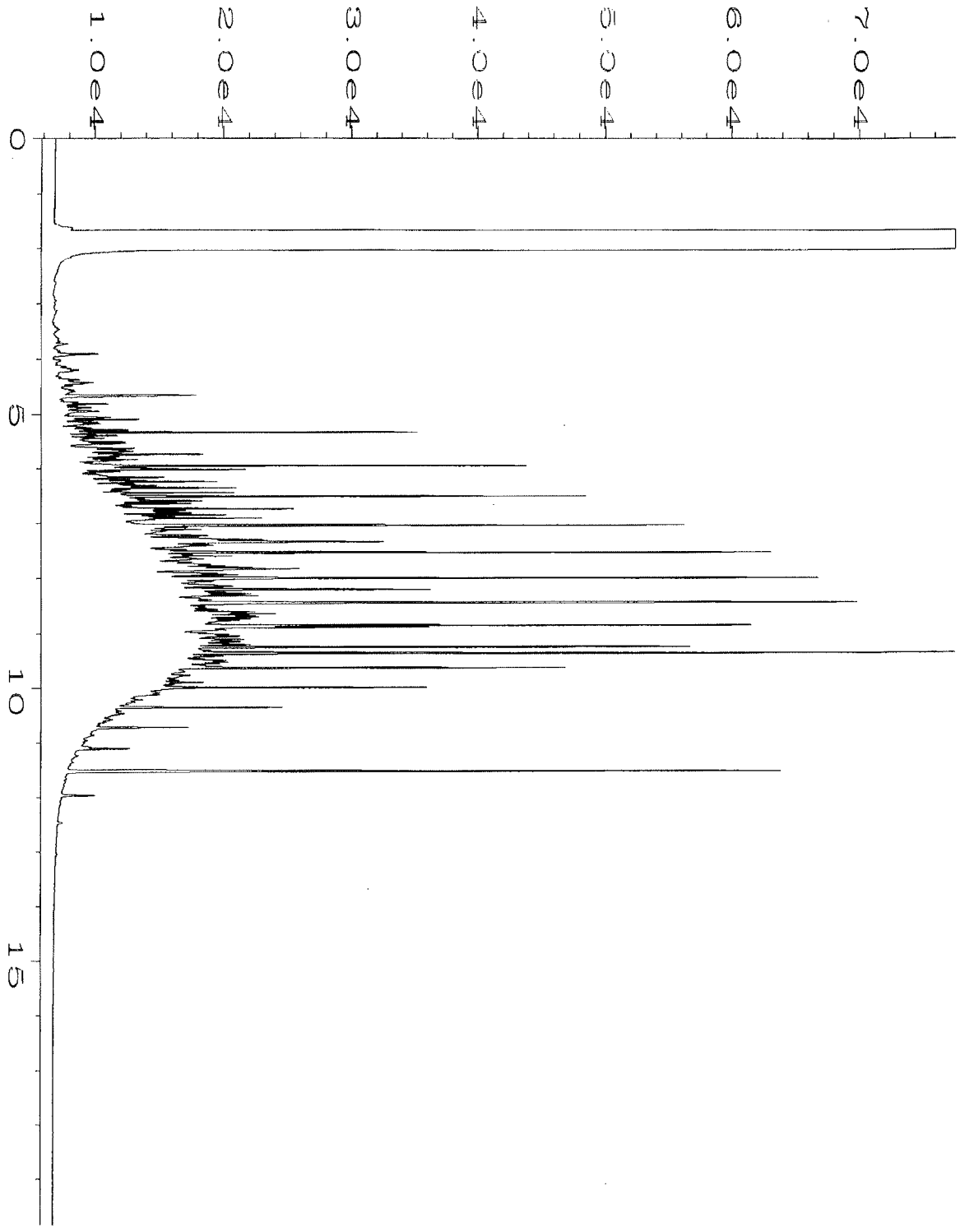


Data File Name	: C:\HPCHEM\1\DATA\05-07-12\017F0701.D		
Operator	: ML	Page Number	: 1
Instrument	: GC1	Vial Number	: 17
Sample Name	: 02-766 mb	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 07 May 12 07:23 PM	Instrument Method	: TPHD.MTH
Report Created on	: 08 May 12 10:26 AM	Analysis Method	: TPHD.MTH



Data File Name : C:\HPCHEM\4\DATA\05-09-12\006F0401.D
Operator : ML
Instrument : GC#4
Sample Name : 02-705 MB
Run Time Bar Code:
Acquired on : 09 May 12 02:58 PM
Report Created on: 10 May 12 10:24 AM

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 4
Instrument Method: TPHD.MTH
Analysis Method : TPHD.MTH



Data File Name	: C:\HPCHEM\1\DATA\05-07-12\003F0201.D		
Operator	: ML	Page Number	: 1
Instrument	: GC1	Vial Number	: 3
Sample Name	: 500 WADF 37-06B	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 2
Acquired on	: 07 May 12 09:10 AM	Instrument Method	: TPHD.MTH
Report Created on	: 08 May 12 10:26 AM	Analysis Method	: TPHD.MTH

205047

SAMPLE CHAIN OF CUSTODY

ME 05-43-12

B05/VS4

Page # 1 of 5

Send Report To Suzy Stauf

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

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

SAMPLERS (signature)

PROJECT NAME/NO. 0320

PO #

REMARKS

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: NWTPH-Dx	NWTPH-Gx/BTEX	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals			Notes
P01-04	P01	04	01 A-E	5-2-12	0710	Soil	5									Hold
P01-06		06	02		0715		5	X	X							
P01-11		11	03		0720		5	X	X							
P01-14		14	04		0730		5									Hold
P01-20		20	05		0745		5	X	X							
P01-24		24	06		0800		5									Hold
P02-04	P02	04	07		0815		5									Hold
P02-08		08	08		0820		5	X	X							
P02-11		11	09		0825		5	X	X							
P02-16		16	10		0830		5									Hold
P02-20		20	11		0835		5	X	X							
P02-24		24	12		0845		5									Hold
P03-04	P03	04	13		0905		5	X	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:		Robert A. Hayden	SES	5-3-12	1045
Received by:		Nhan Phan	FEBI	5-3-12	1045
Relinquished by:					
Received by:					

FORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 2 °C

205047

SAMPLE CHAIN OF CUSTODY

ME 05-03-12

BOS/VSL4

Send Report To Suzy Stanf
Company SES
Address 2811 Fairview ave E Suite 2000
City, State, ZIP Seattle WA 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)

PROJECT NAME/NO. 0320

PO #

REMARKS

GEMS Y / N

Page # 2 of 5

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: NWTPH-Dx	NWTPH-Gx/BTEX	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals			Notes
P03-08	P03	08	14 AE	5-2-12	0910	Soil	5									Hold
P03-11		11	15		0915		5	X	X							
P03-15		15	16		0920		5	X	X							
P03-20		20	17		0935		5									Hold
P03-24		24	18		0945		5	X	X							
P04-04	P04	04	19		1005		5									Hold
P04-08		08	20		1010		5	X	X							
P04-11		11	21		1015		5	X	X							
P04-15		15	22		1020		5									Hold
P04-20		20	23		1035		5									Hold
P04-24		24	24		1045		5	X	X							
P05-04	P05	04	25		1110		5	X	X							
P05-08		08	26		1115		5									

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hanlon	SES	5-3-12	1045
Received by:	Nhan Pham	FEBI	5-3-12	1045
Relinquished by:				
Received by:				

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

Samples received at 2 °C

205047

SAMPLE CHAIN OF CUSTODY

ME 05-03-12 B05/V84

Send Report To Suzy Stark
Company SES
Address 2811 Fairview Ave E Suite 2000
City, State, ZIP Seattle WA 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)
PROJECT NAME/NO. 0320
PO #
REMARKS
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: NWTPH-Dx	NWTPH-Gx/BTEX	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals			Notes
P05-11	P05	11	27 ME	5-2-12	1120	Soil	5									Hold
P05-15		15	28		1130		5									Hold
P05-20		20	29		1145		5	X	X							
P05-24		24	30		1155		5	X	X							
P06-04	P06	04	31		1220		5									Hold
P06-07		07	32		1225		5	X	X							
P06-11		11	33		1230		5									Hold
P06-14		14	34		1235		5	X	X							
P06-19		19	35		1245		5									Hold
P06-24		24	36		1255		5	X	X							
P07-04	P07	04	37		1315		5	X	X							
P07-08		08	38		1320		5									Hold
P07-11		11	39		1325		5									Hold

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert de Mayo	SES	5-3-12	1045
Received by:	Phan Phan	FEBI	5-3-12	1045
Relinquished by:				
Received by:				

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

Samples received at 2 °C

205047

SAMPLE CHAIN OF CUSTODY

ME 05-03-12 B05/VS4

Page # 4 of 5

Send Report To Suzy Stumf

Company SES

Address 2811 Fairview ave E Suite 2000

City, State, ZIP Seattle WA 98102

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

SAMPLERS (signature)

PROJECT NAME/NO. 0320

PO #

REMARKS

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: NWTPH-Dx	NWTPH-Gx / BTEX	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals			Notes
P07-14	P07	14	40 A-E	5-2-12	1330	Soil	5									Hold
P07-20	|	20	41	|	1335	|	5	X	X							
P07-24	|	24	42	|	1345	|	5	X	X							
P08-08	P08	08	43	|	1405	|	5	X	X							
P08-11	|	11	44	|	1410	|	5									Hold
P08-14	|	14	45	|	1420	|	5	X	X							
P08-16	|	16	46	|	1415	|	5									Hold
P08-19	|	19	47	|	1425	|	5									Hold
P08-28	|	28	48	|	1445	|	5	X	X							
P09-03	P09	03	49	|	1505	|	5									Hold
P09-08	|	08	50	|	1510	|	5									Hold
P09-12	|	12	51	|	1515	|	5	X	X							
P09-15	|	15	52	|	1520	|	5	X	X							

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A Hershberger	SES	5-3-12	1045
Received by:	Khan Phan	FEBI	5-3-12	1045
Relinquished by:				
Received by:				

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

Samples received at 2 °C

205047

SAMPLE CHAIN OF CUSTODY

ME 05-03-12 BOS/KSY

Send Report To Suzy Stuntz
Company SES
Address 2811 Fairview ave E Suite 2000
City, State, ZIP Seattle WA 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature)
PROJECT NAME/NO. 0320
PO #
REMARKS
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: NWTPH-Dx	NWTPH-Gx / BTEX	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals			Notes
POG-20	POG	20	53	5-2-12	1530	Soil	5									Hold
POG-24	1	24	54	1	1540	1	5	X	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:		Robt A. Hudson	SES	5-3-12	1045
Received by:		Nhan Phan	FEBI	5-3-12	1045
Relinquished by:					
Received by:					

Samples received at 2 °C

Friedman & Bruya, Inc. #205047 (additional)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

May 22, 2012

Suzy Stumpf, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Stumpf:

Included are the additional results from the testing of material submitted on May 3, 2012 from the SOU_0320_20120503, F&BI 205047 project. There are 7 pages included in this report.

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
SOU0522R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on May 3, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0320_20120503, F&BI 205047 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
205047-01	P01-04
205047-02	P01-06
205047-03	P01-11
205047-04	P01-14
205047-05	P01-20
205047-06	P01-24
205047-07	P02-04
205047-08	P02-08
205047-09	P02-11
205047-10	P02-16
205047-11	P02-20
205047-12	P02-24
205047-13	P03-04
205047-14	P03-08
205047-15	P03-11
205047-16	P03-15
205047-17	P03-20
205047-18	P03-24
205047-19	P04-04
205047-20	P04-08
205047-21	P04-11
205047-22	P04-15
205047-23	P04-20
205047-24	P04-24
205047-25	P05-04
205047-26	P05-08
205047-27	P05-11
205047-28	P05-15
205047-29	P05-20
205047-30	P05-24
205047-31	P06-04
205047-32	P06-07
205047-33	P06-11
205047-34	P06-14
205047-35	P06-19

CASE NARRATIVE (continued)

Laboratory ID	SoundEarth Strategies
205047-36	P06-24
205047-37	P07-04
205047-38	P07-08
205047-39	P07-11
205047-40	P07-14
205047-41	P07-20
205047-42	P07-24
205047-43	P08-08
205047-44	P08-11
205047-45	P08-14
205047-46	P08-16
205047-47	P08-19
205047-48	P08-28
205047-49	P09-03
205047-50	P09-08
205047-51	P09-12
205047-52	P09-15
205047-53	P09-20
205047-54	P09-24

All quality control requirements were acceptable.

Date of Report: 05/22/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047
Date Extracted: 05/16/12
Date Analyzed: 05/16/12

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

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

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 50-132)
P03-20 205047-17	<0.02	<0.02	<0.02	<0.06	<2	92
P06-19 205047-35	<0.02	<0.02	<0.02	<0.06	<2	94
P08-19 205047-47	0.035	<0.02	<0.02	<0.06	7.5	93
Method Blank 02-0846 MB	<0.02	<0.02	<0.02	<0.06	<2	91

Date of Report: 05/22/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047
Date Extracted: 05/15/12
Date Analyzed: 05/16/12

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)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
P03-20 205047-17	<50	<250	111
P06-19 205047-35	<50	<250	111
P08-19 205047-47	<50	<250	109
Method Blank 02-840 MB	<50	<250	109

Date of Report: 05/22/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047

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: 205047-35 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (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	66-121
Toluene	mg/kg (ppm)	0.5	86	72-128
Ethylbenzene	mg/kg (ppm)	0.5	85	69-132
Xylenes	mg/kg (ppm)	1.5	87	69-131
Gasoline	mg/kg (ppm)	20	95	61-153

Date of Report: 05/22/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205047

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

Laboratory Code: 205205-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	94	93	64-133	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	100	58-147

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.

A1 – More than one compound of similar molecule structure was identified with equal probability.

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 this range fell outside of acceptance criteria. The value reported is an estimate.

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

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

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. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

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

j – The result is below normal reporting limits. 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 analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is 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 compound indicated 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.

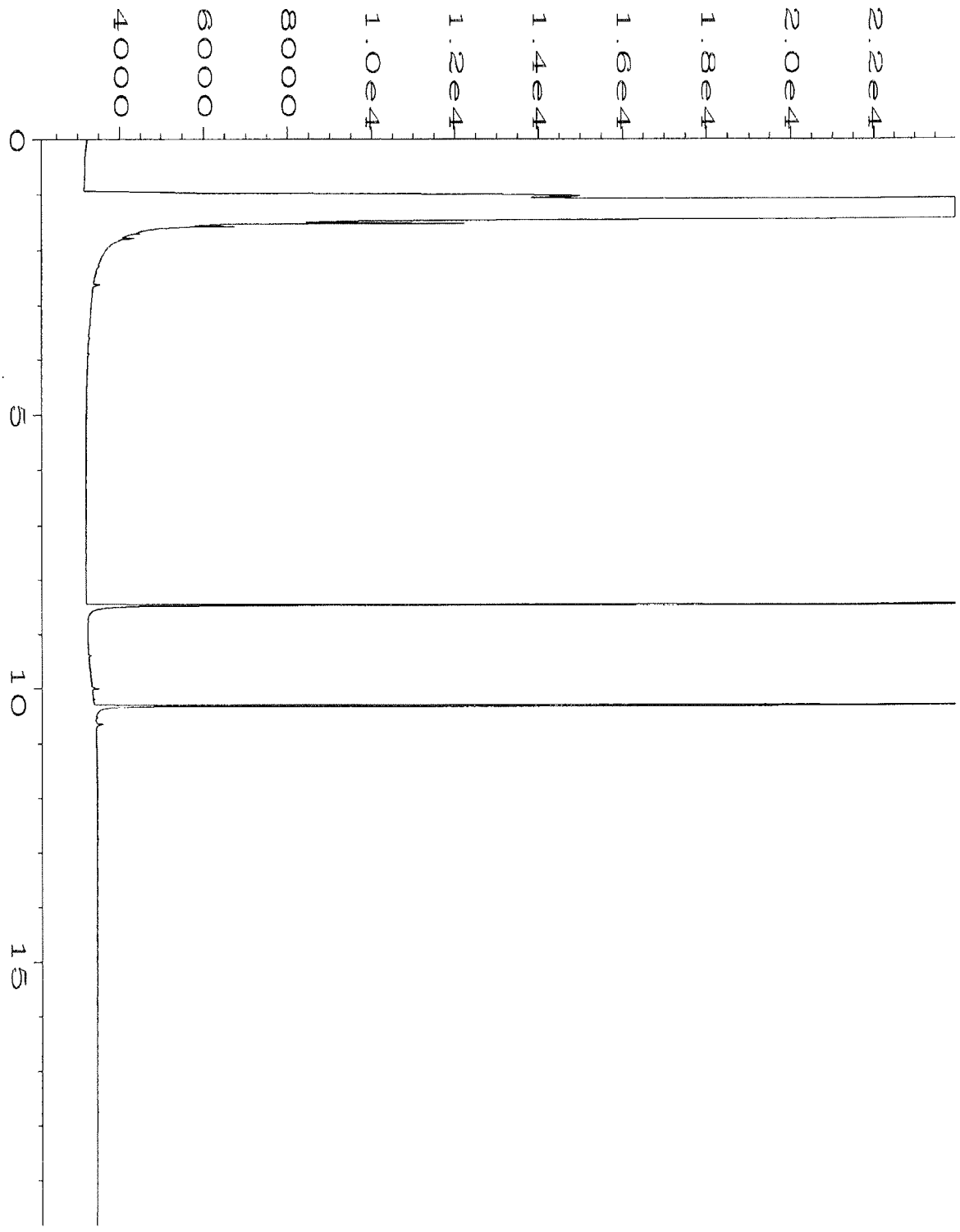
pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

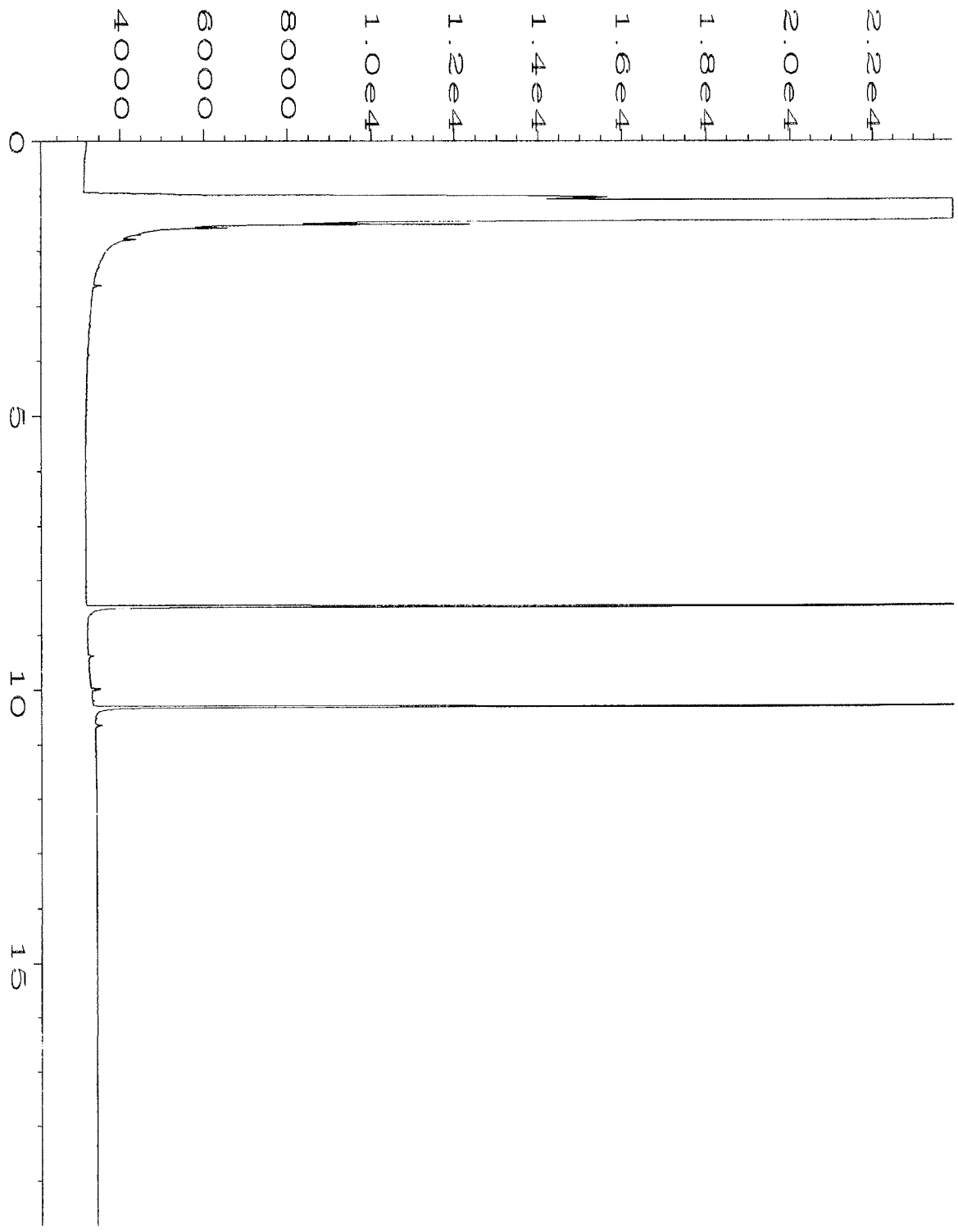
vo - The value reported fell outside the control limits established for this analyte.

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

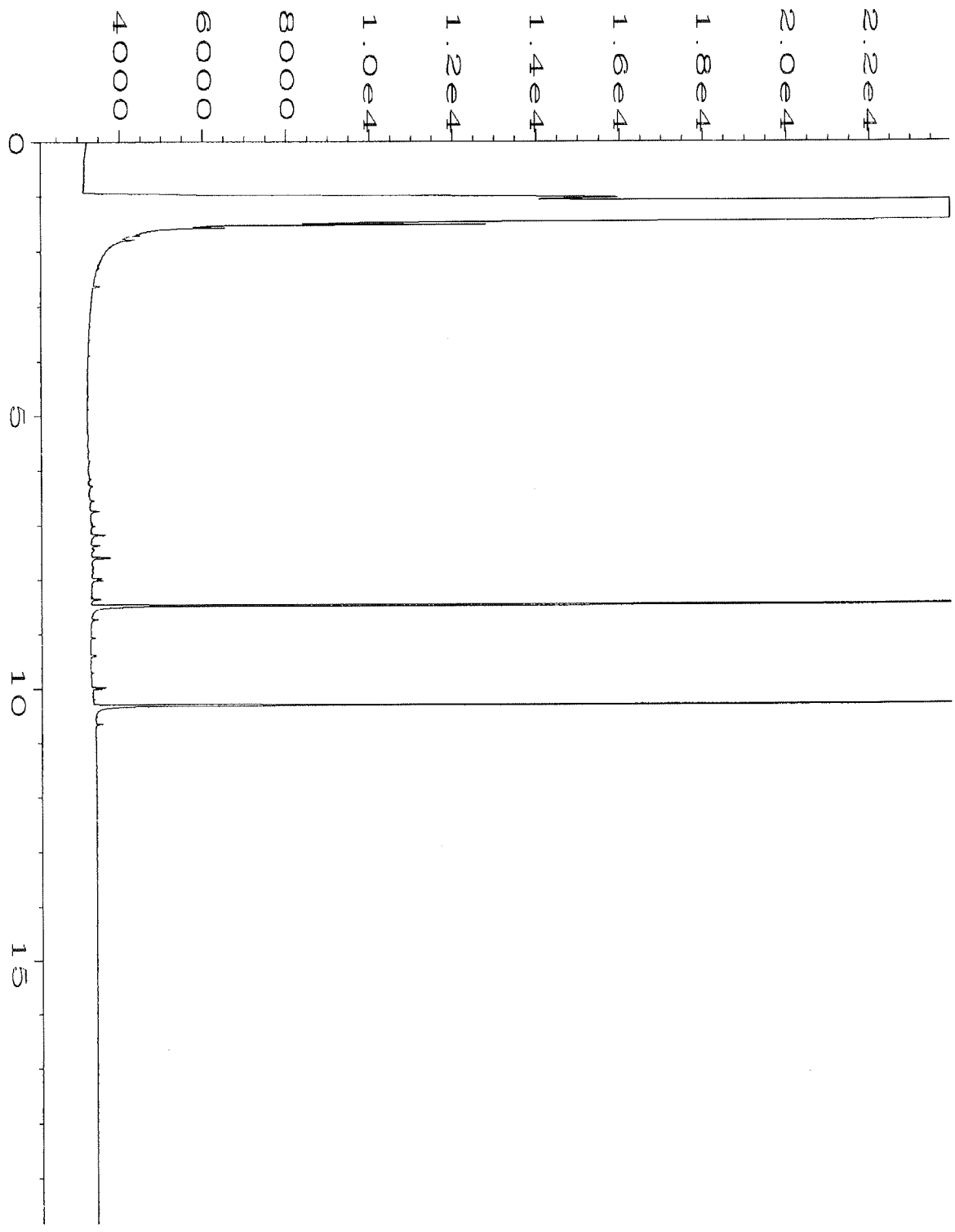


Data File Name : C:\HPCHEM\6\DATA\05-15-12\032F0901.D
Operator : mwdl
Instrument : GC #6
Sample Name : 205047-17
Run Time Bar Code:
Acquired on : 16 May 12 03:36 AM
Report Created on: 16 May 12 09:30 AM

Page Number : 1
Vial Number : 32
Injection Number : 1
Sequence Line : 9
Instrument Method: TPHD.MTH
Analysis Method : BAKEOUT.MTH

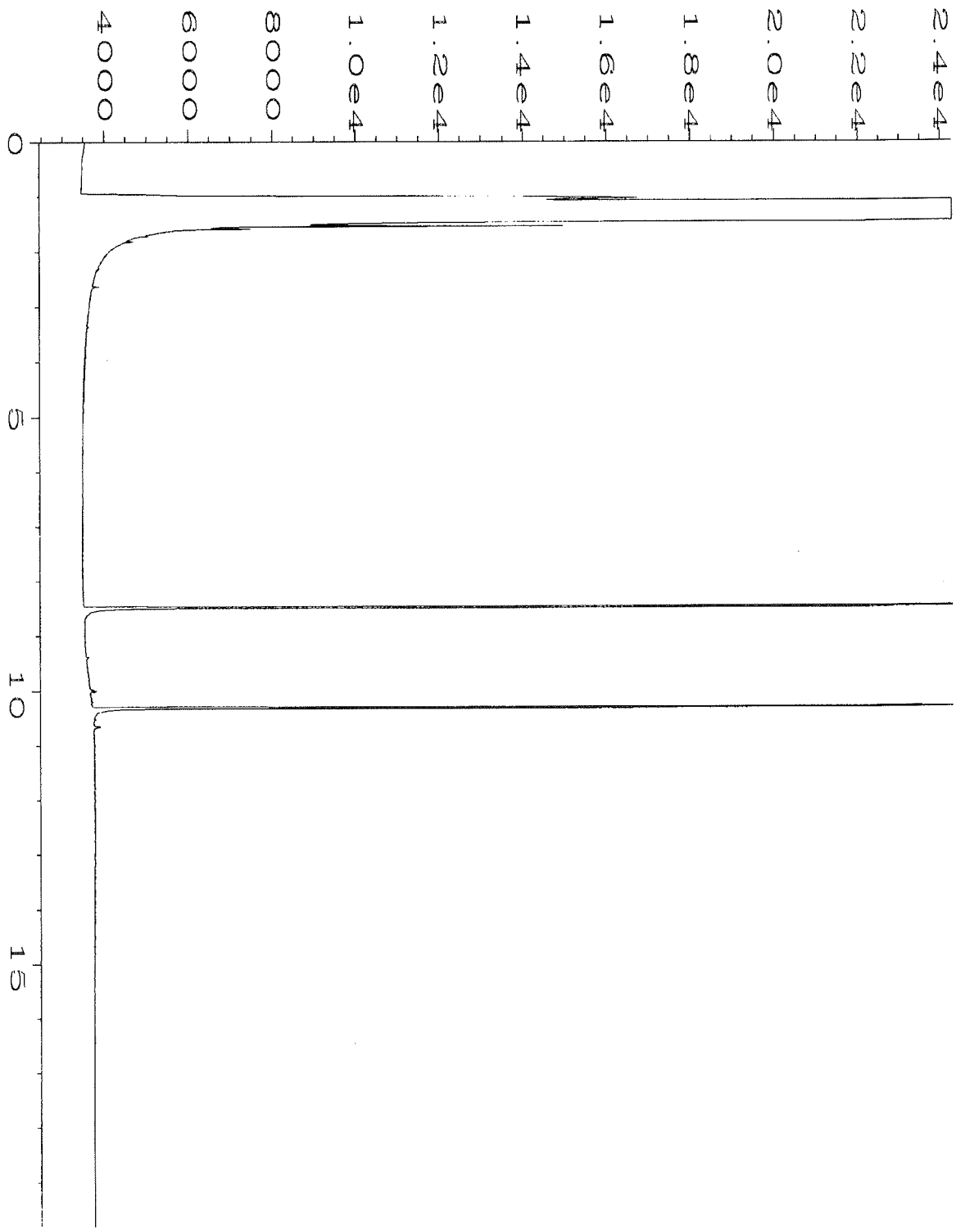


Data File Name	: C:\HPCHEM\6\DATA\05-15-12\033F0901.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 33
Sample Name	: 205047-35	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 16 May 12 04:02 AM	Instrument Method	: TPHD.MTH
Report Created on	: 16 May 12 09:31 AM	Analysis Method	: BAKEOUT.MTH



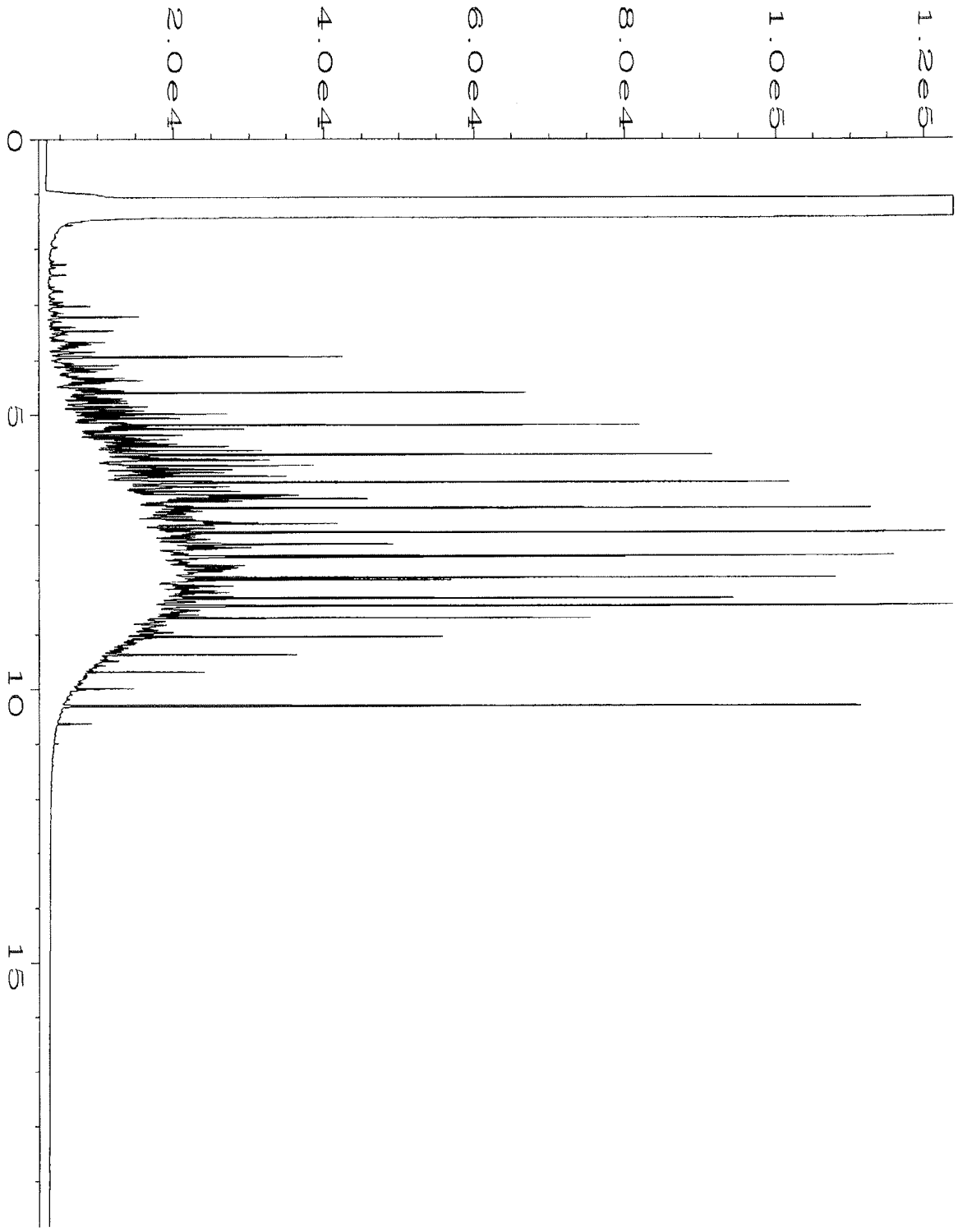
Data File Name : C:\HPCHEM\6\DATA\05-15-12\034F0901.D
Operator : mwdl
Instrument : GC #6
Sample Name : 205047-47
Run Time Bar Code:
Acquired on : 16 May 12 04:28 AM
Report Created on: 16 May 12 09:31 AM

Page Number : 1
Vial Number : 34
Injection Number : 1
Sequence Line : 9
Instrument Method: TPHD.MTH
Analysis Method : BAKEOUT.MTH



Data File Name : C:\HPCHEM\6\DATA\05-15-12\011F0501.D
Operator : mwdl
Instrument : GC #6
Sample Name : 02-840 mb
Run Time Bar Code:
Acquired on : 15 May 12 04:39 PM
Report Created on: 16 May 12 09:30 AM

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 5
Instrument Method: TPHD.MTH
Analysis Method : BAKEOUT.MTH



Data File Name	: C:\HPCHEM\6\DATA\05-15-12\003F0201.D		
Operator	: mwdl	Page Number	: 1
Instrument	: GC #6	Vial Number	: 3
Sample Name	: 500 WADF 37-06B	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 2
Acquired on	: 15 May 12 09:48 AM	Instrument Method	: TPHD.MTH
Report Created on	: 16 May 12 09:30 AM	Analysis Method	: BAKEOUT.MTH

205047

SAMPLE CHAIN OF CUSTODY ME 05-03-12

B05/VS4

Page # 1 of 5

Send Report To Suzy Stauf

Company SES

Address 2811 Fairview Ave E Suite 2000

City, State, ZIP Seattle WA 98102

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

SAMPLERS (Signature)

PROJECT NAME/NO. 0320

PO #

REMARKS

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: NWTPH-Dx	NWTPH-Gx/BTEX	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals			Notes
P01-04	P01	04	01 A-E	5-2-12	0710	Soil	5									Hold
P01-06		06	02		0715		5	X	X							
P01-11		11	03		0720		5	X	X							
P01-14		14	04		0730		5									Hold
P01-20		20	05		0745		5	X	X							
P01-24		24	06		0800		5									Hold
P02-04	P02	04	07		0815		5									Hold
P02-08		08	08		0820		5	X	X							
P02-11		11	09		0825		5	X	X							
P02-16		16	10		0830		5									Hold
P02-20		20	11		0835		5	X	X							
P02-24		24	12		0845		5									Hold
P03-04	P03	04	13		0905		5	X	X							

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A. Hardaway	SES	5-3-12	1045
Received by:	Nhan Phan	FedEx	5-3-12	1045
Relinquished by:				
Received by:				

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

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205047

SAMPLE CHAIN OF CUSTODY

ME 05-03-12

BOS/VR4

Page # 2 of 5

Send Report To Suzy Stauf

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

SAMPLERS (signature) [signature]

PROJECT NAME/NO. 0320

PO #

REMARKS

GEMS Y / N

TURNAROUND TIME
☑ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
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☐ 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	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals			Notes
P03-08	P03	08	14	5-2-12	0910	Soil	5									Hold
P03-11		11	15		0915		5	X	X							
P03-15		15	16		0920		5	X	X							
P03-20		20	17		0935		5	X	X							Hold
P03-24		24	18		0945		5	X	X							
P04-04	P04	04	19		1005		5									Hold
P04-08		08	20		1010		5	X	X							
P04-11		11	21		1015		5	X	X							
P04-15		15	22		1020		5									Hold
P04-20		20	23		1035		5									Hold
P04-24		24	24		1045		5	X	X							
P05-04	P05	04	25		1110		5	X	X							
P05-08	1	08	26		1115		5									

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [signature]	Robert A Hoshaw	SES	5-3-12	1045
Received by: [signature]	Nhan Pham	FEBI	5-3-12	1045
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
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SAMPLE CHAIN OF CUSTODY

ME 05-03-12 B05/V84

Send Report To Suzy Stauf
Company SES
Address 2811 Fairview Ave E Suite 2000
City, State, ZIP Seattle WA 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) [signature]
PROJECT NAME/NO. 0320
PO #
REMARKS
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: NWTPH-Dx	NWTPH-Gx / BTEX	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals			Notes
P05-11	P05	11	27 AE	5-2-12	1125	Soil	5									Hold
P05-15		15	28		1130		5									Hold
P05-20		20	29		1145		5	X	X							
P05-24		24	30		1155		5	X	X							
P06-04	P06	04	31		1220		5									Hold
P06-07		07	32		1225		5	X	X							
P06-11		11	33		1230		5									Hold
P06-14		14	34		1235		5	X	X							
P06-19		19	35		1245		5	(X)	(X)							Hold
P06-24		24	36		1255		5	X	X							
P07-04	P07	04	37		1315		5	X	X							
P07-08		08	38		1320		5									Hold
P07-11		11	39		1325		5									Hold

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [signature]	Robert A. Hughes	SES	5-3-12	1045
Received by: [signature]	Phan Phan	FEBI	5-3-12	1045
Relinquished by:				
Received by:				

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

Samples received at 2 °C

205047

SAMPLE CHAIN OF CUSTODY

ME 05-03-12 B05/VS4

Page # 4 of 5

Send Report To Suzy Stumf
Company SES
Address 2811 Fairview Ave E Suite 2000
City, State, ZIP Seattle WA 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (Signature)
PROJECT NAME/NO. 0320
PO #
REMARKS
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: NWTPH-Dx	NWTPH-Gx / BTEX	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals			Notes
P07-14	P07	14	40	5-2-12	1330	Soil	5									Hold
P07-20		20	41		1335		5	X	X							
P07-24		24	42		1345		5	X	X							
P08-08	P08	08	43		1405		5	X	X							
P08-11		11	44		1410		5									Hold
P08-14		14	45		1420		5	X	X							
P08-16		16	46		1415		5									Hold
P08-19		19	47		1425		5	(X)	(X)							Hold
P08-28		28	48		1445		5	X	X							
P09-03	P09	03	49		1505		5									Hold
P09-08		08	50		1510		5									Hold
P09-12		12	51		1515		5	X	X							
P09-15		15	52		1520		5	X	X							

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Robert A Humphrey	SES	5-3-12	1045
Received by:	Khan Phan	FCBI	5-3-12	1045
Relinquished by:				
Received by:				

RMB\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 2 °C

205047

SAMPLE CHAIN OF CUSTODY

ME 05-03-12 BOE/KEY

Send Report To Suzy Stumf
Company SFS
Address 2811 Fairview Ave E Suite 2000
City, State, ZIP Seattle WA 98102
Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature): [signature]

PROJECT NAME/NO.: 0320

PO #:

REMARKS:

GEMS Y / N

Page # 5 of 5

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: NWTPH-Dx	NWTPH-Gx / BTEX	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals			Notes
POA-20	POA	20	53	5-2-12	1530	Soil	5									Hold
POA-24	1	24	54	1	1540	1	5	X	X							

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [signature]	Rob A. Hudson	SFS	5-3-12	1045
Received by: [signature]	Nhan Phan	FedEx	5-3-12	1045
Relinquished by:				
Received by:				

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

Samples received at 2 °C

Friedman & Bruya, Inc. #205050

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

May 10, 2012

Suzy Stumpf, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Stumpf:

Included are the results from the testing of material submitted on May 3, 2012 from the SOU_0320_20120503, F&BI 205050 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
SOU0510R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on May 3, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0320_20120503, F&BI 205050 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
205050-01	Composite-20120502

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Composite-20120502	Client:	SoundEarth Strategies
Date Received:	05/03/12	Project:	SOU_0320_20120503, F&BI 205050
Date Extracted:	05/04/12	Lab ID:	205050-01
Date Analyzed:	05/04/12	Data File:	205050-01.011
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	95	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	13.9
Arsenic	1.51
Selenium	<1
Silver	<1
Cadmium	<1
Barium	42.6
Lead	4.32

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_0320_20120503, F&BI 205050
Date Extracted:	05/04/12	Lab ID:	I2-288 mb
Date Analyzed:	05/04/12	Data File:	I2-288 mb.015
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	93	60	125
Holmium	93	60	125

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

Date of Report: 05/10/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205050
Date Extracted: 05/04/12
Date Analyzed: 05/07/12

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

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

Sample ID Laboratory ID	Total Mercury
Composite-20120502 205050-01	<0.1
Method Blank	<0.1

Date of Report: 05/10/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205050

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

Laboratory Code: 205050-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/kg (ppm)	50	13.9	99 b	97 b	63-120	2 b
Arsenic	mg/kg (ppm)	10	1.51	99	98	56-125	1
Selenium	mg/kg (ppm)	5	<1	93	93	64-118	0
Silver	mg/kg (ppm)	10	<1	102	101	83-112	1
Cadmium	mg/kg (ppm)	10	<1	105	103	85-117	2
Barium	mg/kg (ppm)	50	42.6	111 b	121 b	65-132	9 b
Lead	mg/kg (ppm)	50	4.32	99	98	64-139	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	mg/kg (ppm)	50	102	81-117
Arsenic	mg/kg (ppm)	10	96	79-112
Selenium	mg/kg (ppm)	5	99	83-113
Silver	mg/kg (ppm)	10	100	85-113
Cadmium	mg/kg (ppm)	10	103	88-114
Barium	mg/kg (ppm)	50	101	87-113
Lead	mg/kg (ppm)	50	101	83-118

Date of Report: 05/10/12
Date Received: 05/03/12
Project: SOU_0320_20120503, F&BI 205050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 205050-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	mg/kg (ppm)	0.125	<0.1	90	103	54-156	13

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/kg (ppm)	0.125	101	73-131

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.

A1 – More than one compound of similar molecule structure was identified with equal probability.

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 this range fell outside of acceptance criteria. The value reported is an estimate.

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

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

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. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

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

j – The result is below normal reporting limits. 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 analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is 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 compound indicated 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 in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

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.

205058

SAMPLE CHAIN OF CUSTODY

ME 05-03-12

BEI

Send Report To: Suzy Stumf
Company: SES
Address: 2811 Fairview Ave E Suite 2000
City, State, ZIP: Seattle WA 98102
Phone #: 206-306-1900 Fax #: 206-306-1907

SAMPLERS (signature):

PROJECT NAME/NO.: 0320

PO #:

REMARKS:

GEMS Y / N

Page # 1 of

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: NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	RCRA-8 Metals			Notes
Composite-205058	P01-P09	—	01	5-2-12	1350	So. 1	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:		Robert A. Honshuyar	SES	5-3-12	1045
Received by:		Nhan Phan	FEBI	5/3/12	1045
Relinquished by:					
Received by:					

ORMS\COC\SESGEMSR1.DOC (Revision 1)

Samples received at 2 °C