

ATTACHMENT A
LABORATORY ANALYTICAL REPORTS

Friedman & Bruya, Inc. #605346

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

May 24, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 18, 2016 from the TOC_01-600_20160519 WORFDB8, F&BI 605346 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Pete Kingston, Jonathan Loeffler
SOU0524R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 18, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160519 WORFDB8, F&BI 605346 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605346 -01	02MW04-20160518
605346 -02	FD02-20160518
605346 -03	02MW13-20160518
605346 -04	02MW05-20160518

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/18/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605346

Date Extracted: 05/19/16

Date Analyzed: 05/19/16

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
02MW04-20160518 605346-01	19	9.5	190	240	3,000	107
FD02-20160518 605346-02	17	3.2	190	240	3,100	110
02MW13-20160518 605346-03	<1	<1	<1	<3	<100	90
02MW05-20160518 605346-04	<1	<1	<1	<3	<100	92
Method Blank 06-999 MB	<1	<1	<1	<3	<100	93

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/18/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605346

Date Extracted: 05/19/16

Date Analyzed: 05/20/16

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

Results Reported as ug/L (ppb)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 41-152)
02MW04-20160518 605346-01	1,200 x	610 x	122
FD02-20160518 605346-02	1,400 x	620 x	133
02MW13-20160518 605346-03	<50	<250	125
02MW05-20160518 605346-04	<50	<250	121
Method Blank 06-1035 MB	<50	<250	138

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/18/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605346

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

Laboratory Code: 605347-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	94	65-118
Toluene	ug/L (ppb)	50	96	72-122
Ethylbenzene	ug/L (ppb)	50	97	73-126
Xylenes	ug/L (ppb)	150	95	74-118
Gasoline	ug/L (ppb)	1,000	94	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/18/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605346

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	121	116	63-142	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

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

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

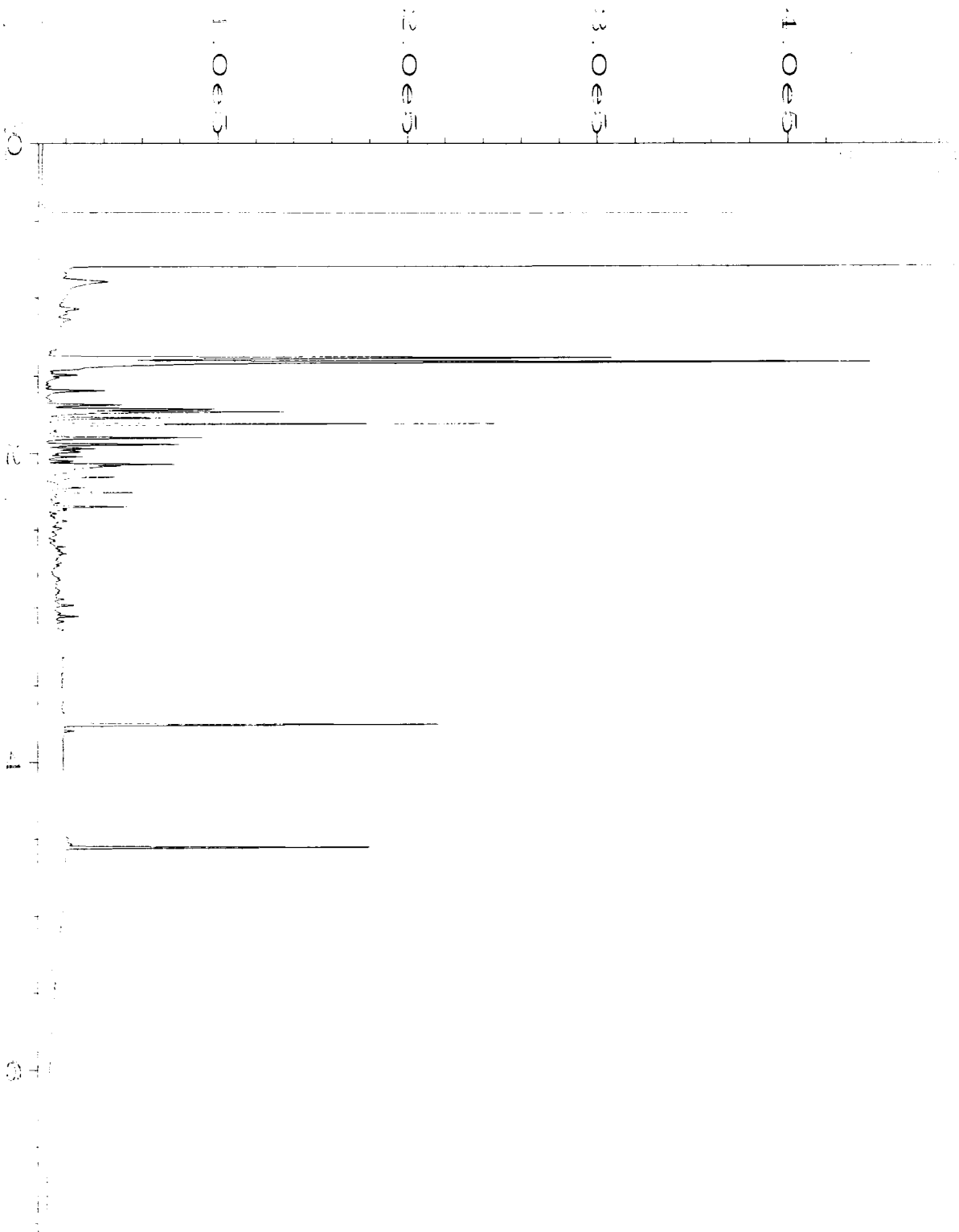
pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

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

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

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

Operator :
Instrument :
Sample Name :
Acquired on :



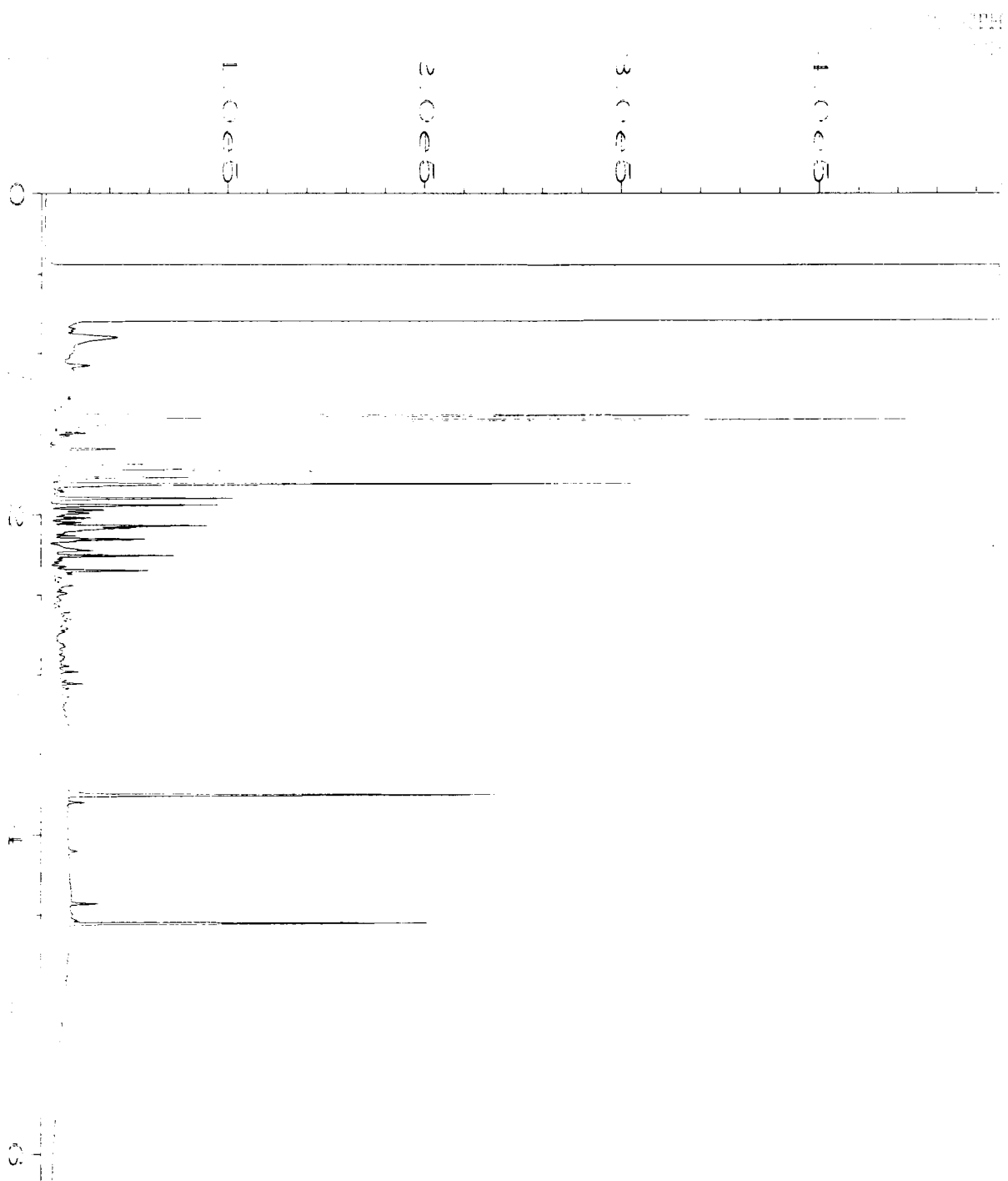
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Operator	: mwdl	Vial Number	: 18
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605346-01	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 May 16 12:08 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:28 AM		

Instrument

Sample Name

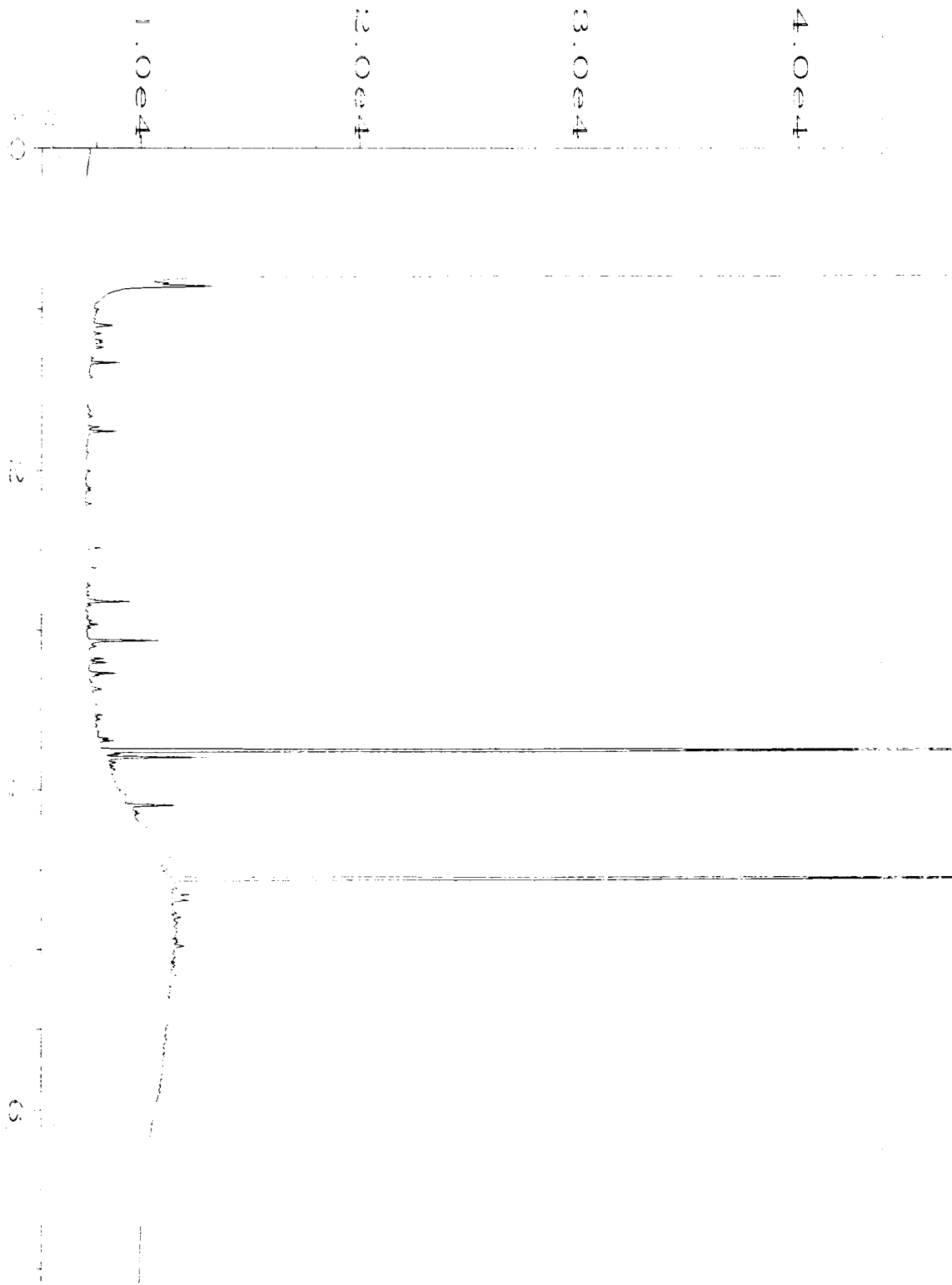
Injection

Sequence



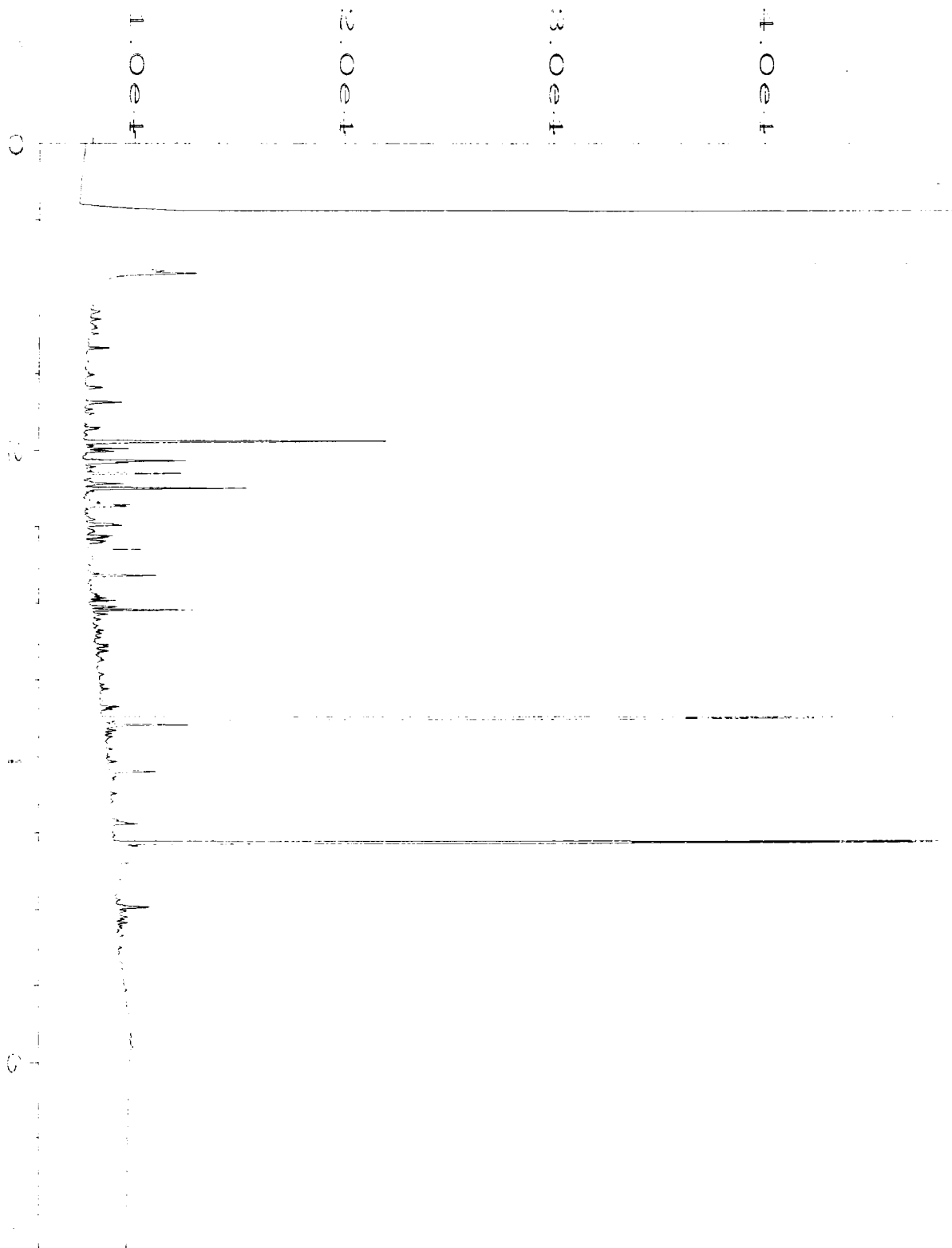
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Operator	: mwdl	Vial Number	: 19
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605346-02	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 May 16 12:19 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:28 AM		

Instrument: GC1
Sample Name: 605346-03
Run Time: 20 May 16 12:31 PM
Acquired on: 23 May 16 09:28 AM



Data File Name	: C:\HPCHEM\1\DATA\05-20-16\020F0401.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 20
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605346-03	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 May 16 12:31 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:28 AM		

Operator
Instrument
Sample Name
Run Time Bar Code



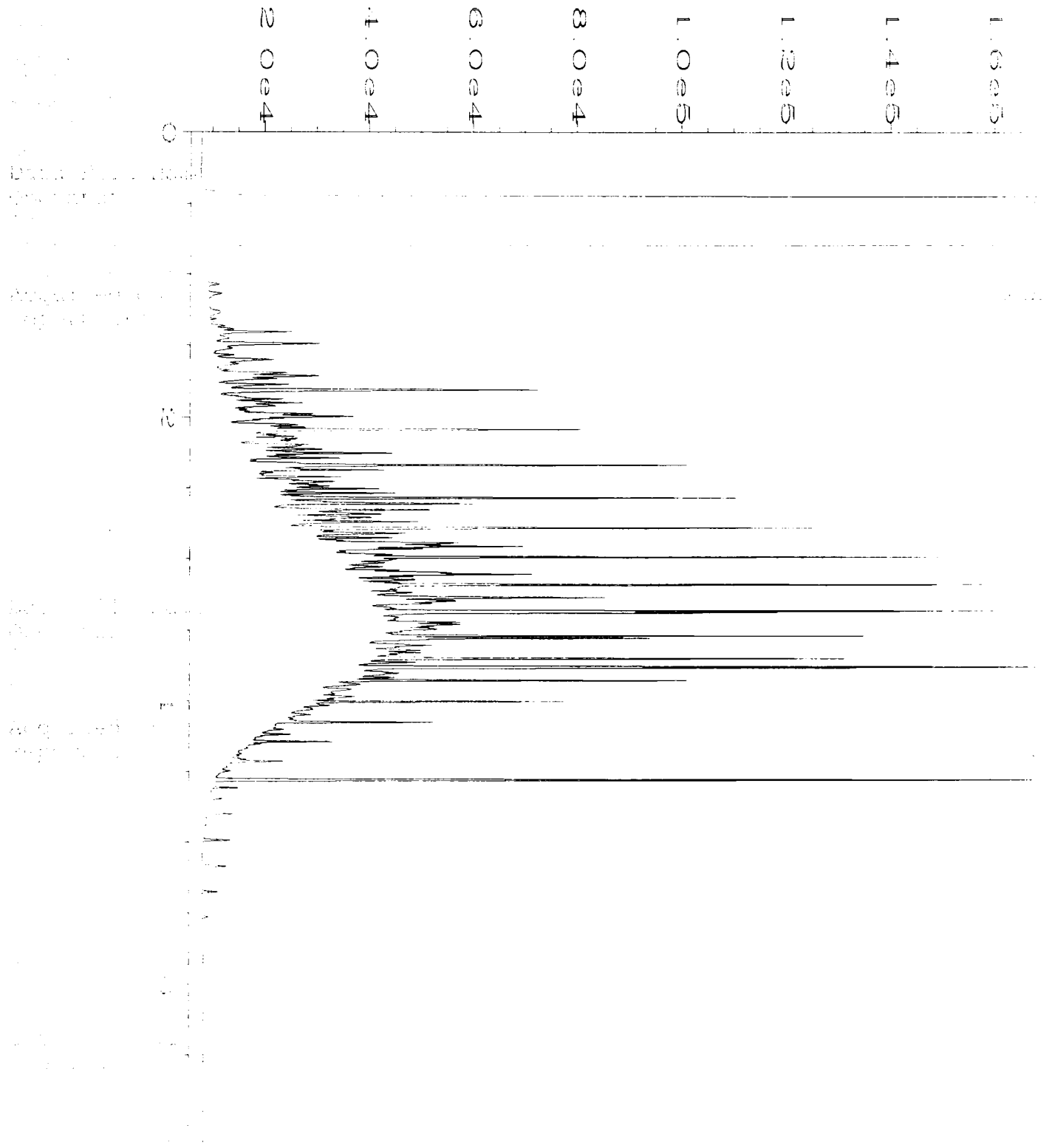
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Operator	: mwdl	Vial Number	: 21
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605346-04	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	: DX.MTH
Acquired on	: 20 May 16 12:42 PM	Analysis Method	: DX.MTH
Report Created on:	: 23 May 16 09:28 AM		

1.0e4
2.0e4
3.0e4
4.0e4

Data File Name
Operator
Sample Name
Run Time
Acquisition

Data File Name
Operator
Sample Name
Run Time
Acquisition

Data File Name : C:\HPCHEM\1\DATA\05-20-16\011F0401.D
Operator : mwdl
Instrument : GC1
Sample Name : 06-1035 mb
Run Time Bar Code:
Acquired on : 20 May 16 10:51 AM
Report Created on: 23 May 16 09:28 AM
Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 4
Instrument Method: DX.MTH
Analysis Method : DX.MTH



Data File Name	: C:\HPCHEM\1\DATA\05-20-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 May 16 06:51 AM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:29 AM		

605346

SAMPLE CHAIN OF CUSTODY

ME 05/18/16 03 / DO3
Page # _____ of _____

Send Report to: nm Brown, cc: Jessica Brown, Pete Kingston, Jennifer Cyr, Jonathan Loeffler

SAMPLERS (signature) <i>Chris Cass</i>	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - East Waterfront Property	PO # 0440-004-42
REMARKS	EIM Y / N

TURNAROUND TIME Standard (2 Weeks) RUSH _____ Rush charges authorized by: _____
SAMPLE DISPOSAL <input checked="" type="checkbox"/> Dispose after 30 days Return samples Will call with instructions

Company Sound Environmental Strategies
Address 2811 Fairview Ave E, Suite 2000
City, State, ZIP Seattle, WA 98102

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPHORPH by NWTPH-Dx	PCP by EPA 8270D (low-level detection limits)	cVOCs by EPA 8260B	Nitrate and Sulfate by EPA 300.0	Methane, Ethane, and Ethene by RSK 175	Notes
02MWD4-20160518	02MWD4	-	01 ^{AS}	05/18/16	1155	Water	4	X	X	X					
FDD2-20160518	FDD2	-	02	05/18/16	0900	↓	4	X	X	X					
02MWD3-20160518	02MWD3	-	03	05/18/16	1315	↓	4	X	X	X					
02MWD4-20160518	02MWD4	-	03	05/18/16	1543	Water	6	X	X	X	X				---
02MWD5-20160518	02MWD5	-	04	05/18/16	1617	Water	4	X	X	X					
													Samples received at	4 °C	

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>Chris Cass</i>	Chris Cass	Sound Earth	05/18/16	1720
Received by: <i>Jan Shihara</i>	Jan Shihara	FB ? I	↓	↓
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605347

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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Seattle, WA 98119-2029
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May 24, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 18, 2016 from the TOC_01-600_20160518 WORFDB8, F&BI 605347 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Pete Kingston, Jonathan Loeffler
SOU0524R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 18, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160518 WORFDB8, F&BI 605347 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605347 -01	02MW03-20160518
605347 -02	02MW07-20160518
605347 -03	02MW08-20160518

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605347

Date Extracted: 05/19/16

Date Analyzed: 05/19/16

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
02MW03-20160518 605347-01	<1	<1	<1	<3	<100	92
02MW07-20160518 605347-02	<1	<1	<1	<3	<100	95
02MW08-20160518 605347-03	<1	<1	<1	<3	<100	91
Method Blank 06-999 MB	<1	<1	<1	<3	<100	93

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605347

Date Extracted: 05/19/16

Date Analyzed: 05/20/16

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 41-152)
02MW03-20160518 605347-01	86 x	<250	126
02MW07-20160518 605347-02	130 x	370 x	127
02MW08-20160518 605347-03	<50	<250	133
Method Blank 06-1035 MB	<50	<250	138

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605347

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

Laboratory Code: 605347-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	94	65-118
Toluene	ug/L (ppb)	50	96	72-122
Ethylbenzene	ug/L (ppb)	50	97	73-126
Xylenes	ug/L (ppb)	150	95	74-118
Gasoline	ug/L (ppb)	1,000	94	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605347

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	121	116	63-142	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

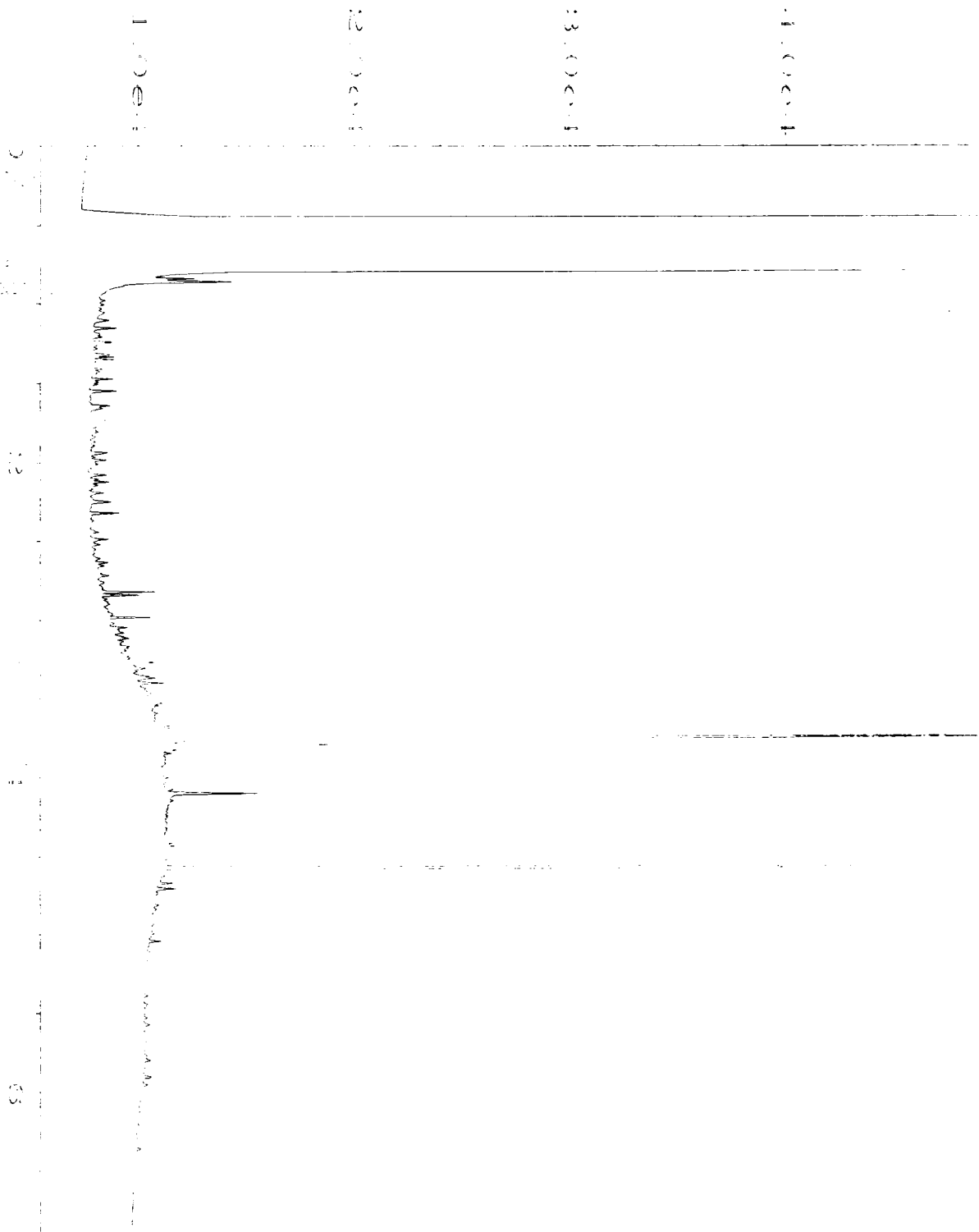
Data Qualifiers & Definitions

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

Printed on: 05/23/16
12:53 PM
Page: 1

Operator: mwdl
Sample Name: 605347-01
Run Time Bar Code: 20 May 16 12:53 PM

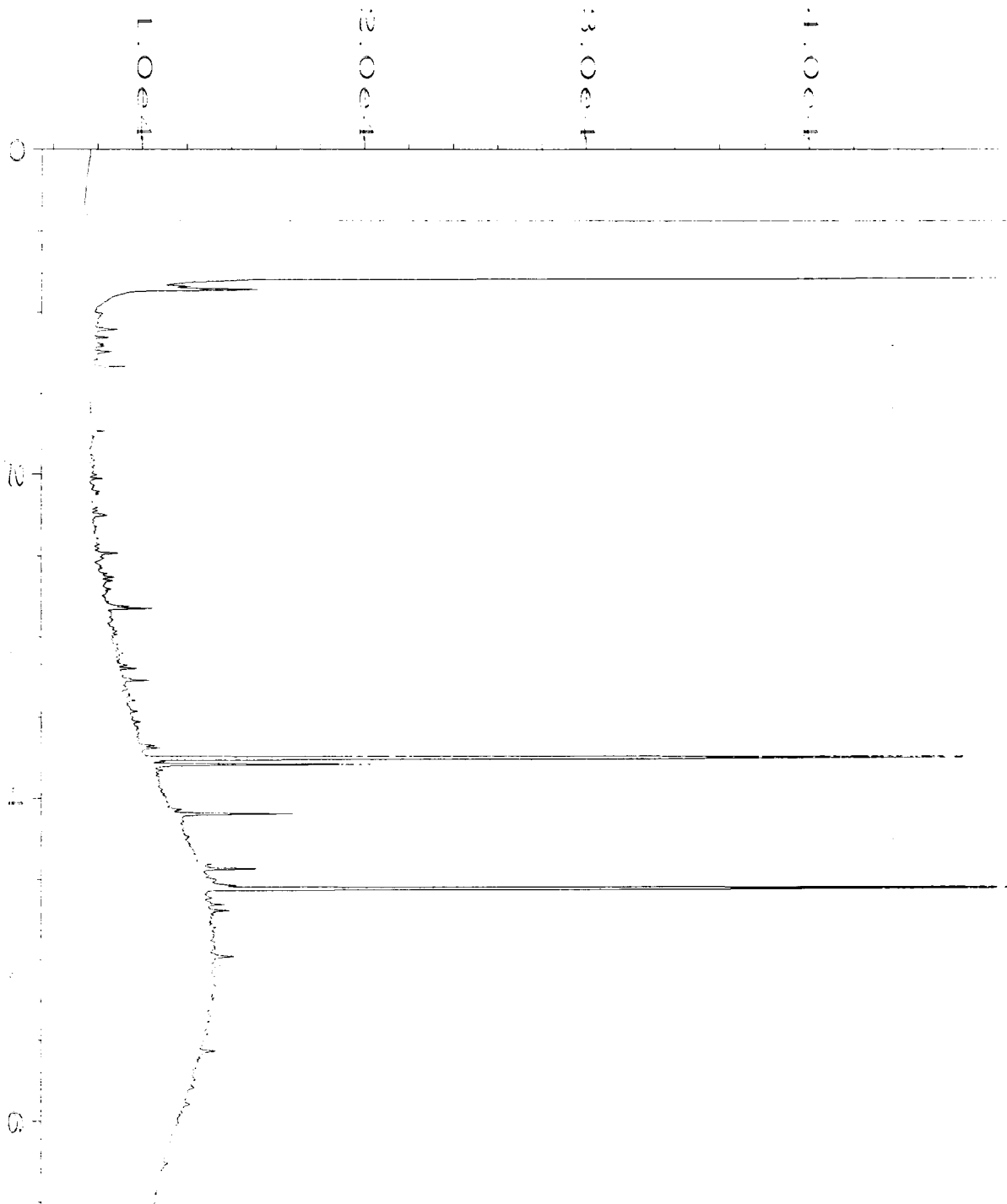
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Injection Number: 1
Sequence Line: 4
Instrument Method: DX.MTH
Analysis Method: DX.MTH



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Operator	: mwdl	Vial Number	: 22
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605347-01	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 May 16 12:53 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:28 AM		

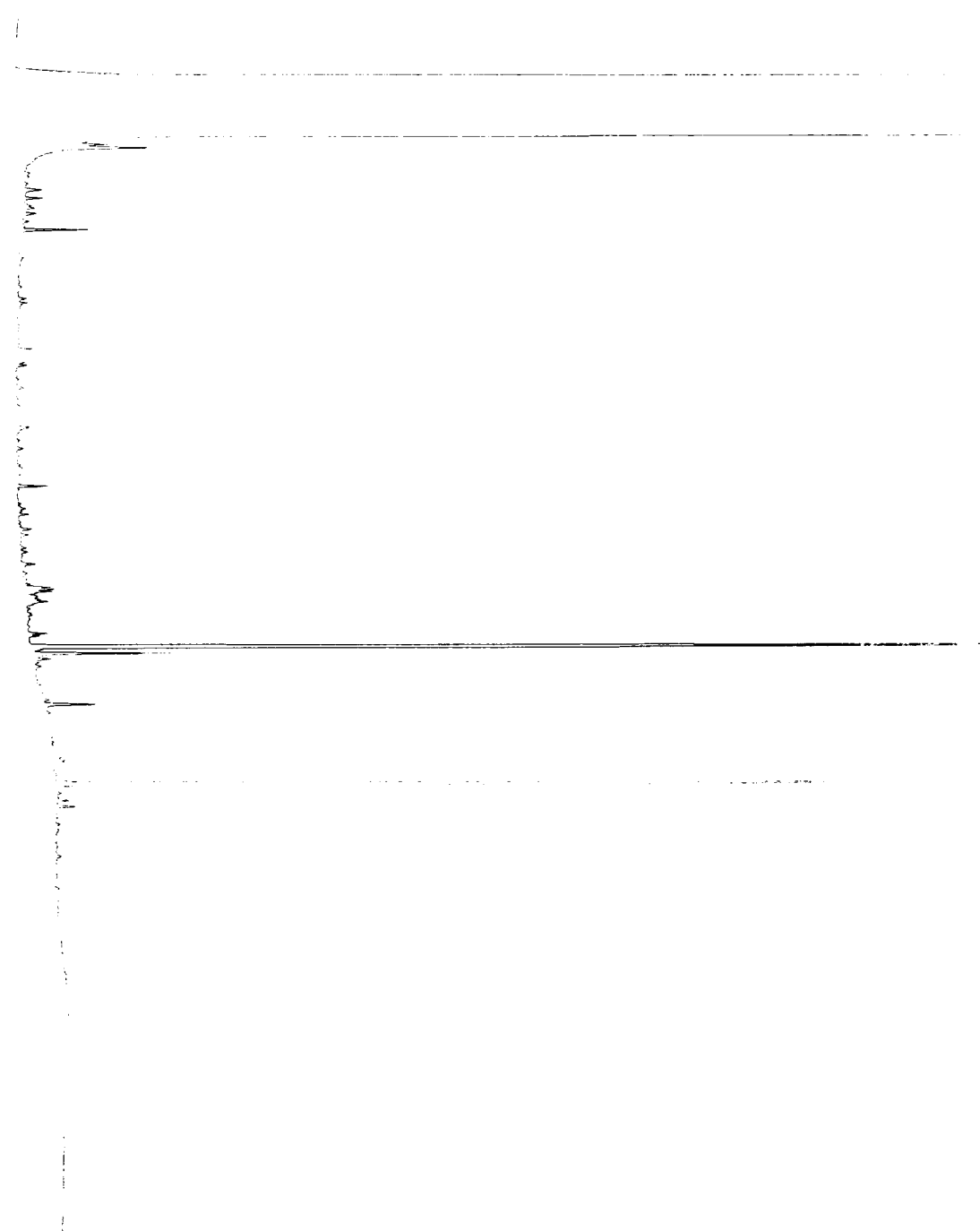
Instrument: GC1
Sample Name: 605347-02
Acquired on: 20 May 16 01:04 PM
Report Created on: 23 May 16 09:28 AM

Page Number: 1
Vial Number: 23
Injection Number: 1
Sequence Line: 4
Instrument Method: DX.MTH
Analysis Method: DX.MTH



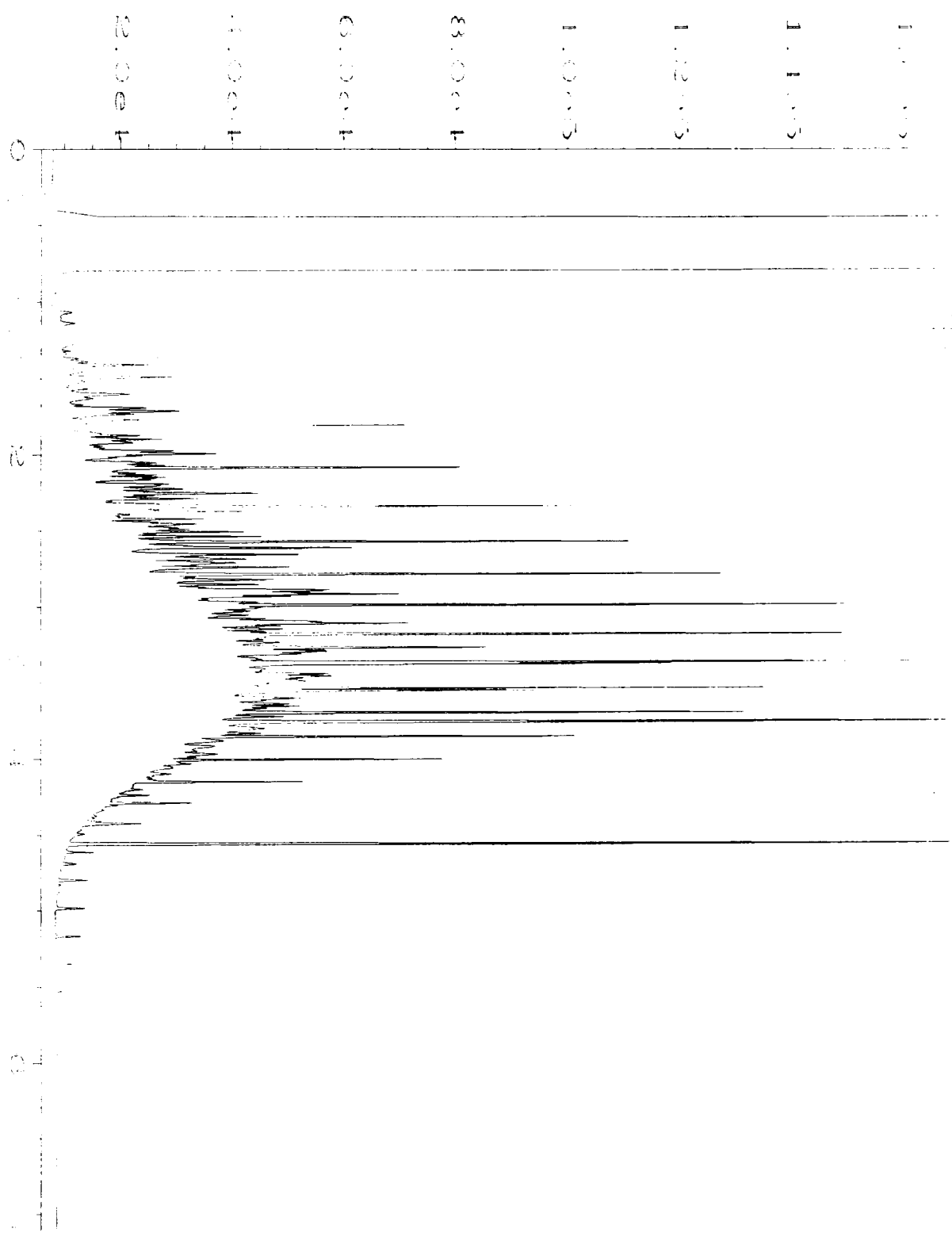
Data File Name	: C:\HPCHEM\1\DATA\05-20-16\023F0401.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 23
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605347-02	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 May 16 01:04 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:28 AM		

1.0e4
2.0e4
3.0e4
4.0e4



Data File Name : C:\HPCHEM\1\DATA\05-20-16\024F0401.D
Operator : mwdl
Instrument : GC1
Sample Name : 605347-03
Run Time Bar Code:
Acquired on : 20 May 16 01:15 PM
Report Created on: 23 May 16 09:28 AM
Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 4
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Data File Name : C:\HPCHEM\1\DATA\05-20-16\003F0201.D
 Operator : mwdl
 Instrument : GC1
 Sample Name : 500 Dx 45-182D
 Run Time Bar Code :
 Acquired on : 20 May 16 06:51 AM
 Report Created on: 23 May 16 09:29 AM



Data File Name	: C:\HPCHEM\1\DATA\05-20-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 May 16 06:51 AM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:29 AM		

605347

SAMPLE CHAIN OF CUSTODY

ME 05/18/16

13/403

Send Report to Tim Brown, CC, Jessica Brown, Pete Kingston, Jennifer Cyr, Jonathan Loeffler

Company Sound Environmental Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) 	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - East Waterfront Property	PO # 0440-004-42
REMARKS	EIM Y / N

Page # 1 of 1

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

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPHORPH by NWTPH-Dx	PCP by EPA 8270D (low-level detection limits)	cVOCs by EPA 8260B	Nitrate and Sulfate by EPA 300.0	Methane, Ethane, and Ethene by RSK 175	Notes
02MW03 - 20160518	02MW03	---	01	5/19/16	1354	GW	4	X	X	X					
02MW07 - 20160518	02MW07	---	02	5/19/16	1248	1	1	X	X	X					
02MW08 - 20160518	02MW08	---	03	5/19/16	1518	1	1	X	X	X					
 Samples received at <u>4</u> °C															

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Kevin Barkett	SES	5/18/16	1720
Received by:	Jan Shimura	FBI	1	6
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605349

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

May 24, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 18, 2016 from the TOC_01-600_20160518 WORFDB8, F&BI 605349 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Jonathan Loeffler, Pete Kingston
SOU0524R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 18, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160518 WORFDB8, F&BI 605349 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
605349 -01

SoundEarth Strategies
02MW14-20160518

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605349

Date Extracted: 05/19/16

Date Analyzed: 05/19/16

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
02MW14-20160518 605349-01	<1	<1	<1	<3	<100	78
Method Blank 06-999 MB	<1	<1	<1	<3	<100	93

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605349

Date Extracted: 05/19/16

Date Analyzed: 05/19/16

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 47-140)
02MW14-20160518 605349-01	<50	<250	118
Method Blank 06-1014 MB	<50	<250	98

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	02MW14-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/20/16	Lab ID:	605349-01
Date Analyzed:	05/20/16	Data File:	052012.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	104	63	127
4-Bromofluorobenzene	105	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	06-1018 mb
Date Analyzed:	05/19/16	Data File:	051919.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605349

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

Laboratory Code: 605347-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	94	65-118
Toluene	ug/L (ppb)	50	96	72-122
Ethylbenzene	ug/L (ppb)	50	97	73-126
Xylenes	ug/L (ppb)	150	95	74-118
Gasoline	ug/L (ppb)	1,000	94	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605349

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	108	100	61-133	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/24/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605349

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

Laboratory Code: 605344-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Vinyl chloride	ug/L (ppb)	50	3.7	109	36-166
Chloroethane	ug/L (ppb)	50	<1	121	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	99	60-136
Methylene chloride	ug/L (ppb)	50	<5	107	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	101	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	100	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	200	92 b	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	90	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	97	60-146
Trichloroethene	ug/L (ppb)	50	190	86 b	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	95	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	50	107	105	50-154	2
Chloroethane	ug/L (ppb)	50	119	117	58-146	2
1,1-Dichloroethene	ug/L (ppb)	50	100	96	67-136	4
Methylene chloride	ug/L (ppb)	50	111	105	39-148	6
trans-1,2-Dichloroethene	ug/L (ppb)	50	102	99	68-128	3
1,1-Dichloroethane	ug/L (ppb)	50	102	99	79-121	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	105	103	80-123	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	94	90	73-132	4
1,1,1-Trichloroethane	ug/L (ppb)	50	100	97	83-130	3
Trichloroethene	ug/L (ppb)	50	102	99	80-120	3
Tetrachloroethene	ug/L (ppb)	50	99	96	76-121	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

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

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

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

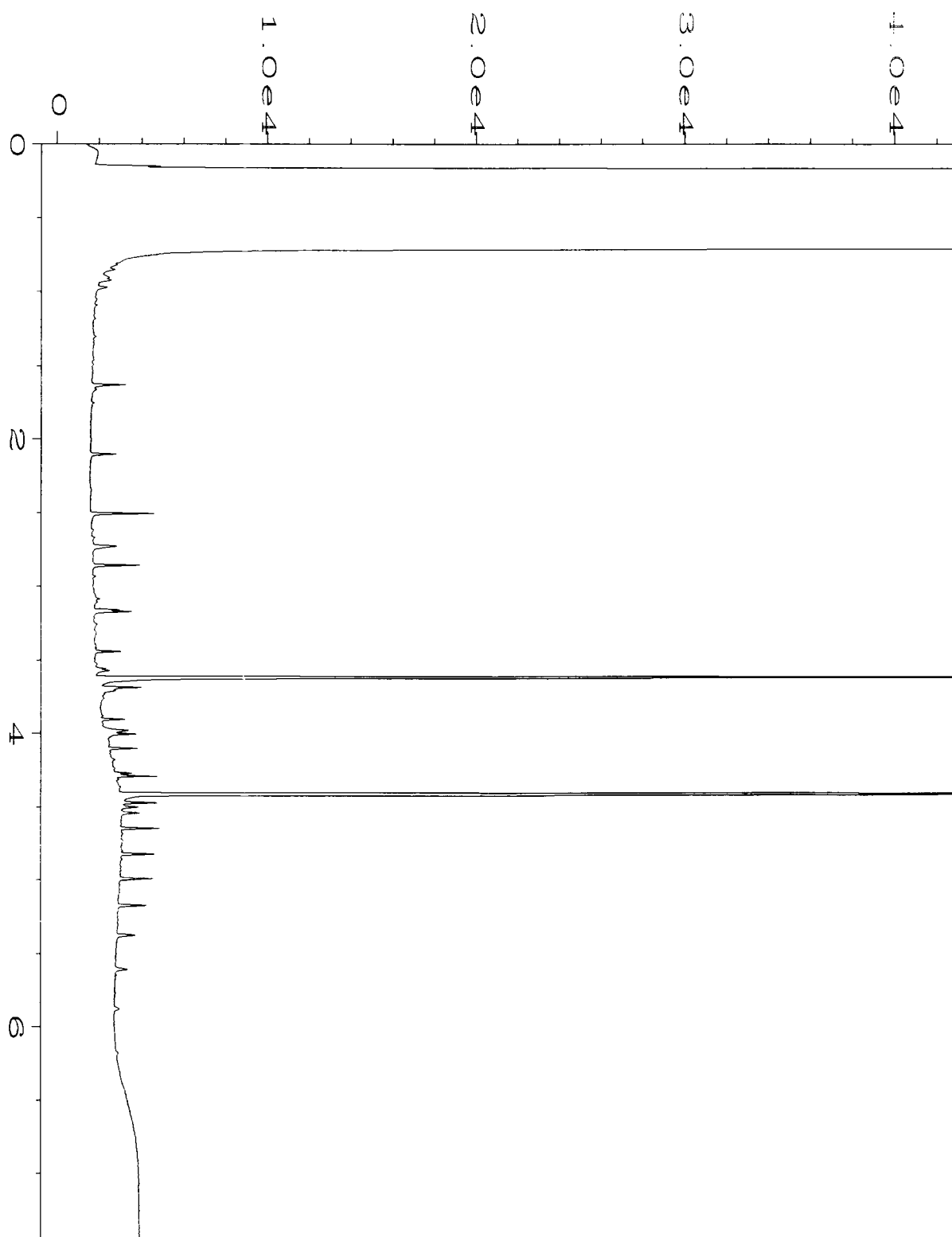
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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

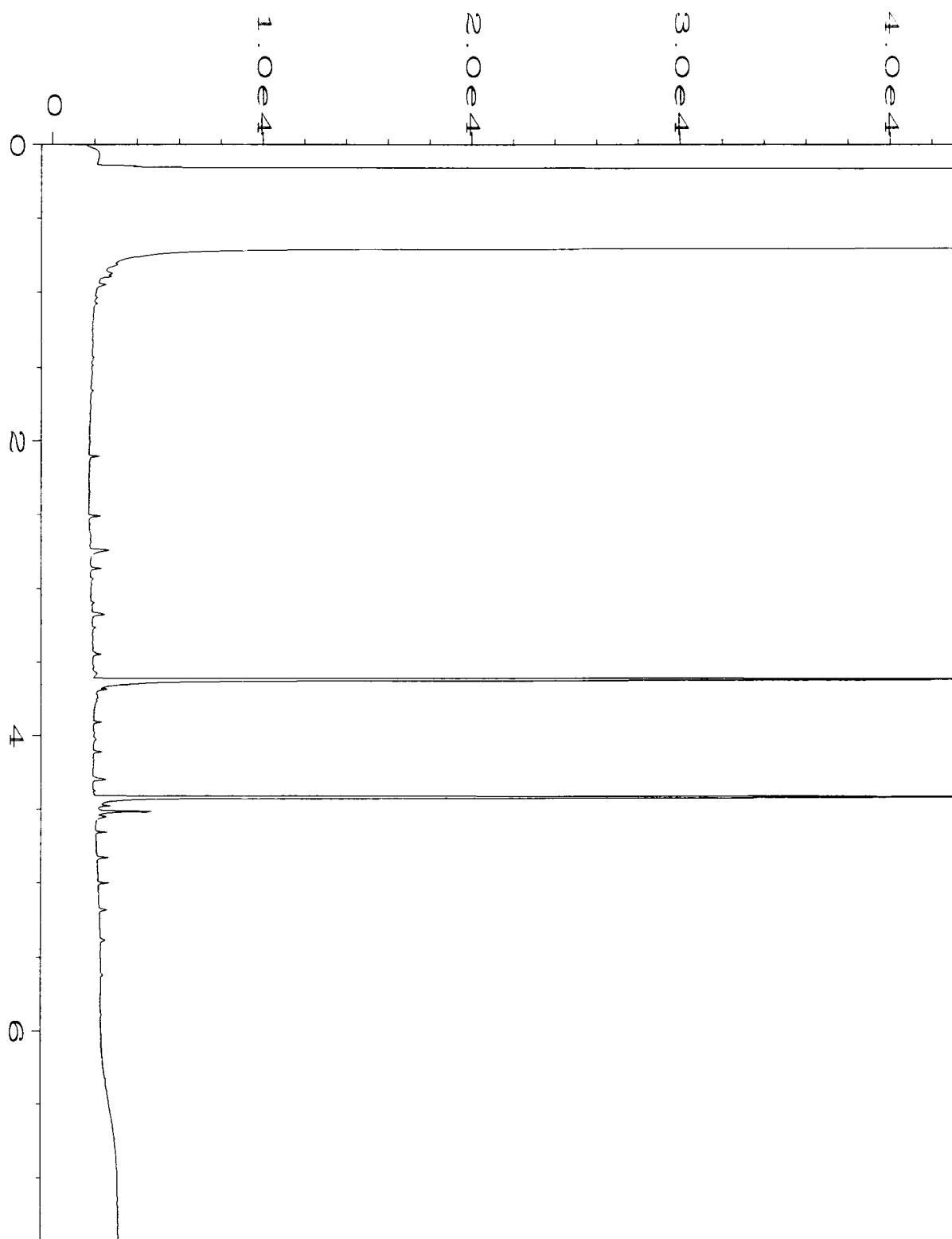
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

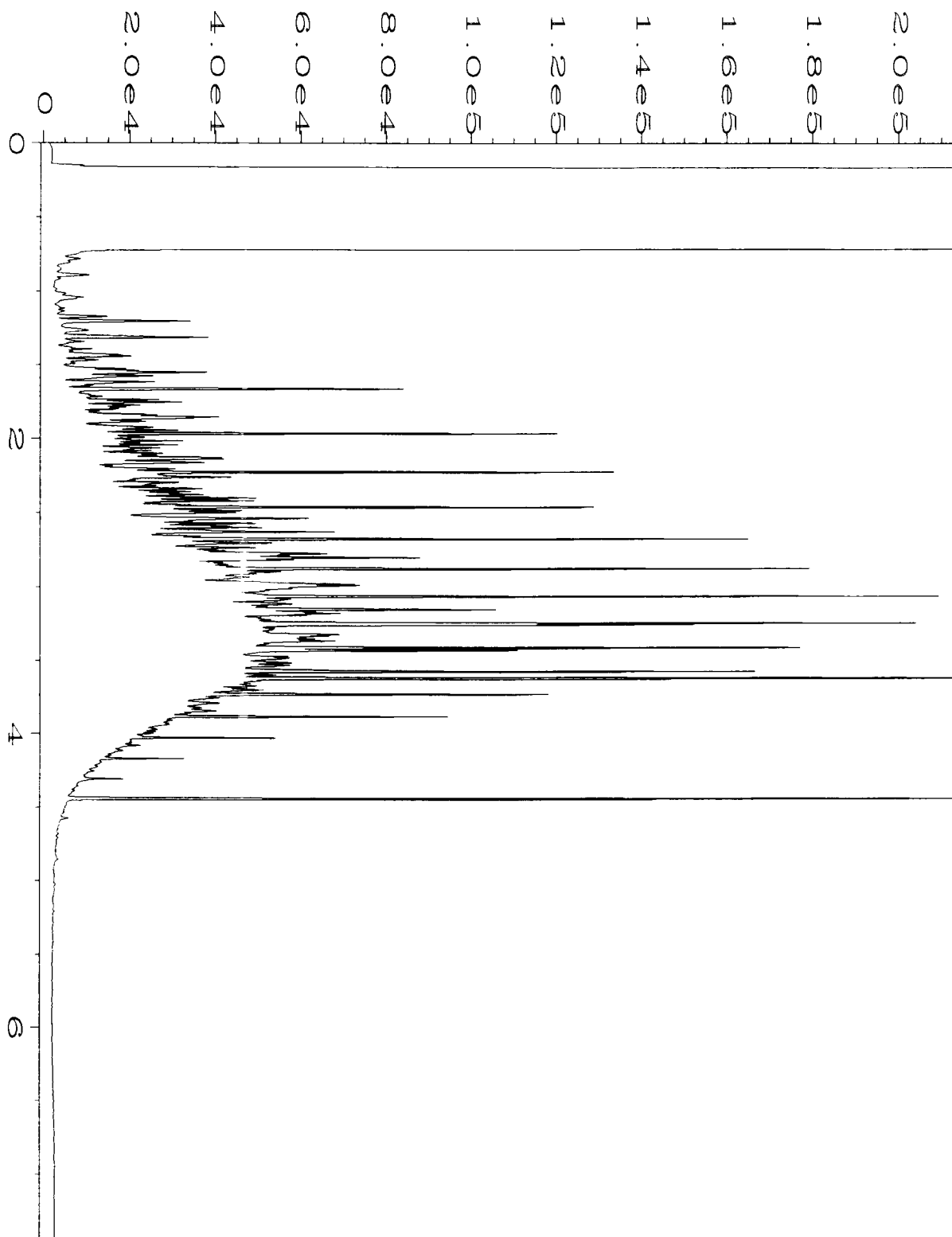
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Data File Name	: C:\HPCHEM\4\DATA\05-19-16\040F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 40
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605349-01	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 06:52 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:34 AM		



Data File Name	: C:\HPCHEM\4\DATA\05-19-16\019F0401.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 19
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-1014 mb	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 01:07 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:35 AM		



Data File Name	: C:\HPCHEM\4\DATA\05-19-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 06:53 AM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:36 AM		

605349

SAMPLE CHAIN OF CUSTODY

ME 05/18/16

11/DO31

Send Report To Jim Brown, cc: Jessica Brown, Jennifer Cyr, Pete Kingston, Courtney Schaumberg, Jonathan Loeffler

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) <i>Chris Case</i>	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - ASKO Property	PO # 0440-004-41
REMARKS	EIM Y

Page # 1 of 1

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

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPHORPH by NWTPH-Dx	cVOCs by EPA 8260C	Methane, Ethane, and Ethene by RSK 175	Sulfate, Nitrate, Nitrite, Total P, Hardness, and Alkalinity	Total Fe and Total Mn	Sulfide, TKN, and Fe 2+	Notes	
02MW14-20160518	02MW14	-	A-05F	05/18/16	1443	water	6	X	X	X	X						
<p><i>COC 05/18/16</i></p> <p>Samples received at <u>4</u> °C</p>																	

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>Chris Case</i>	Chris Case	SoundEarth	05/18/16	1720
Received by: <i>Jon Shikman</i>	Jon Shikman	FB&I	1	1
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605371

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

May 25, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 19, 2016 from the TOC_01-600_20160519 WORFDB8, F&BI 605371 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Jonathan Loeffler, Pete Kingston
SOU0525R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 19, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160519 WORFDB8, F&BI 605371 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
605371 -01

SoundEarth Strategies
02MW15-20160519

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605371

Date Extracted: 05/20/16

Date Analyzed: 05/20/16

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
02MW15-20160519 605371-01	<1	<1	<1	<3	<100	91
Method Blank 06-1001 MB	<1	<1	<1	<3	<100	92

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605371

Date Extracted: 05/23/16

Date Analyzed: 05/23/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 47-140)
02MW15-20160519 605371-01	110 x	<250	123
Method Blank 06-1042 MB	<50	<250	115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605371

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

Laboratory Code: 605375-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	98	65-118
Toluene	ug/L (ppb)	50	100	72-122
Ethylbenzene	ug/L (ppb)	50	101	73-126
Xylenes	ug/L (ppb)	150	99	74-118
Gasoline	ug/L (ppb)	1,000	95	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605371

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

Laboratory Code: Laboratory Control Sample

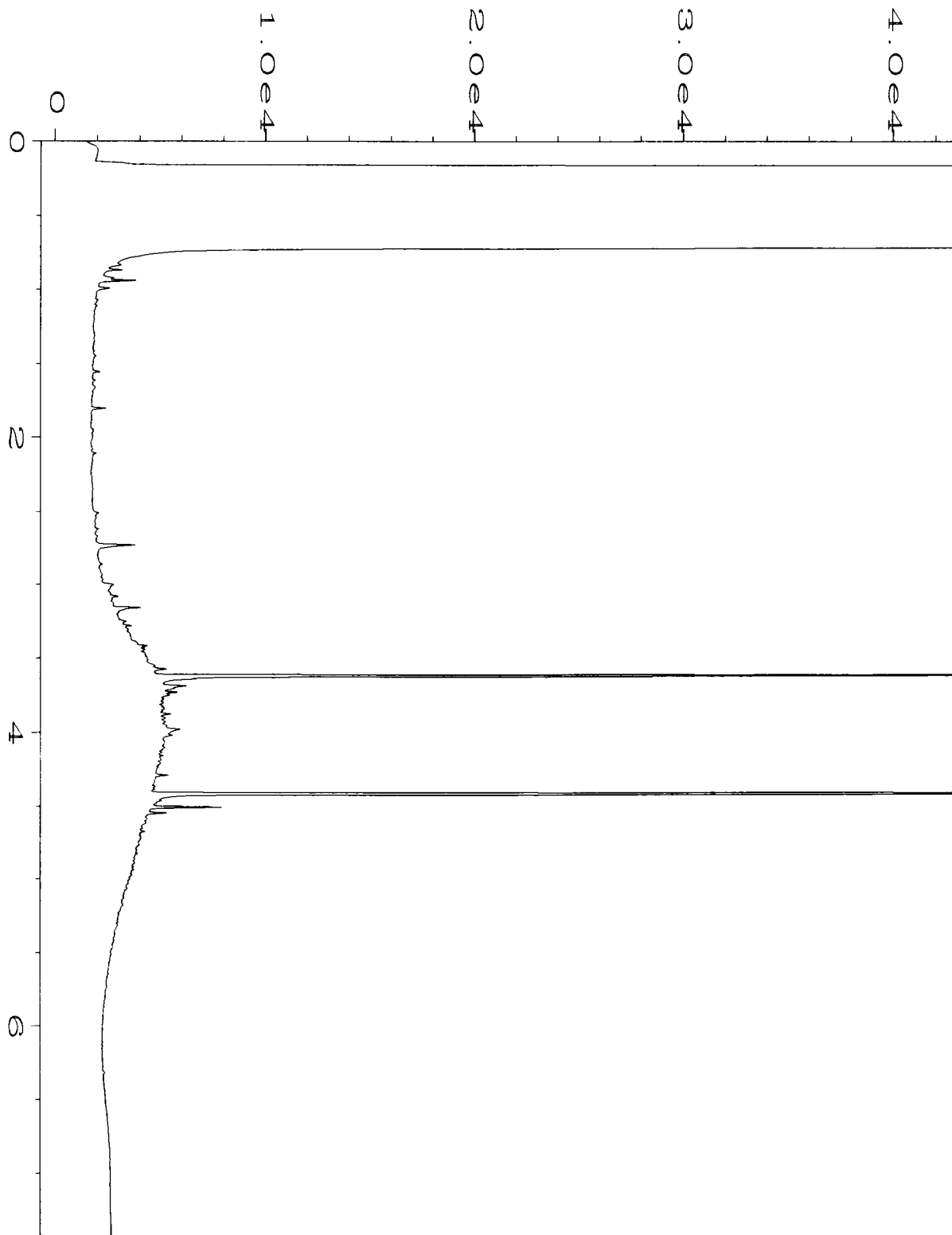
Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	113	112	61-133	1

FRIEDMAN & BRUYA, INC.

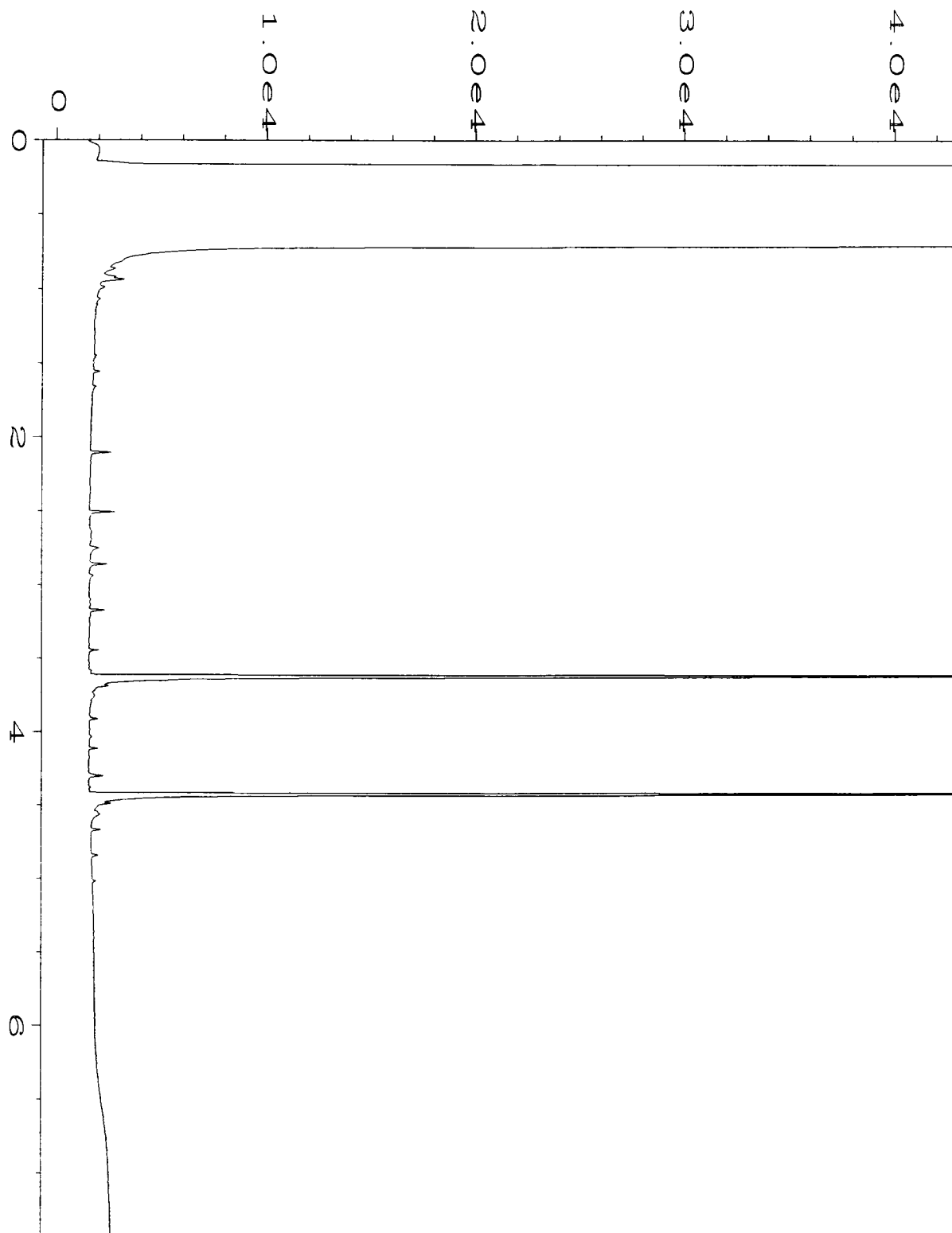
ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

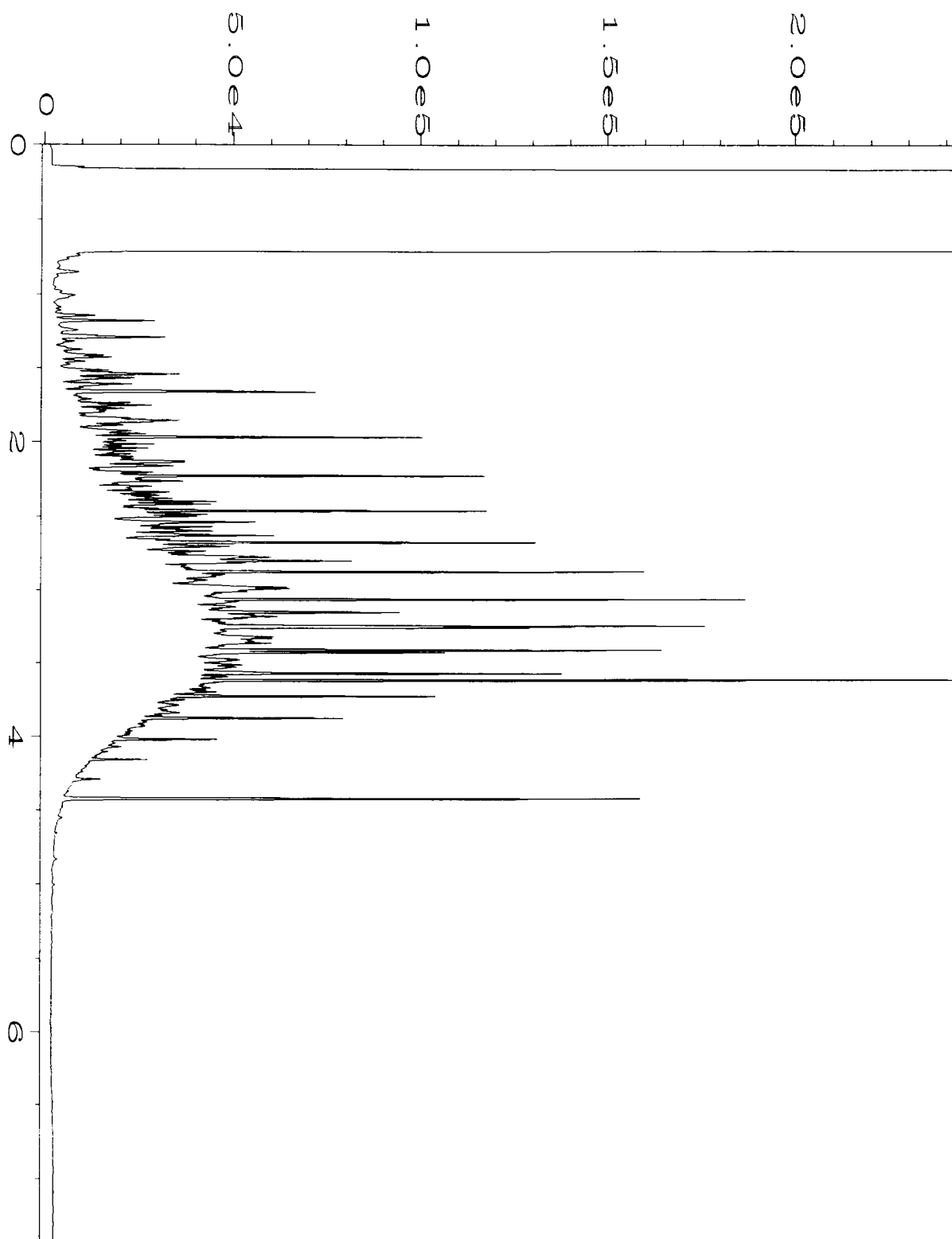
- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not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



Data File Name	: C:\HPCHEM\4\DATA\05-23-16\021F0601.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 21
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605371-01	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 23 May 16 01:10 PM	Analysis Method	: DX.MTH
Report Created on:	24 May 16 01:16 PM		



Data File Name	: C:\HPCHEM\4\DATA\05-23-16\018F0601.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 18
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-1042 mb	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 23 May 16 12:35 PM	Analysis Method	: DX.MTH
Report Created on:	24 May 16 01:16 PM		



Data File Name	: C:\HPCHEM\4\DATA\05-23-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 23 May 16 06:46 AM	Analysis Method	: DX.MTH
Report Created on:	24 May 16 01:16 PM		

SAMPLE CHAIN OF CUSTODY

ME 05/19/16

1 of 1
41/DO3

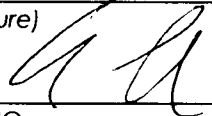
605371

Send Report To Jim Brown, CC. Jessica Brown, Pete Kingston, Jennifer Cyr, Jonathan Loeffler

Company Sound Environmental Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) 	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal – East Waterfront Property	PO # 0440-004-42
REMARKS	EIM Y / N

Page # _____ of _____

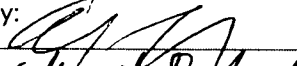
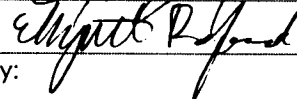
TURNAROUND TIME

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	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	PCP by EPA 8270D (low-level detection limits)	cVOCs by EPA 8260B	Nitrate and Sulfate by EPA 300.0	Methane, Ethane, and Ethene by RSK 175	Notes
02MWIS-20160519	02MWIS	10	01A-D	5/19/16	1507	H2O	4	X	X	X					
Samples received at <u>3</u> °C															

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Liz Farber	SES	5/19/16	1650
Received by: 	Elizabeth Redford	F&B	5/19/16	1656
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605374

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

May 25, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 19, 2016 from the TOC_01-600_20160519 WORFDB8, F&BI 605374 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Jonathan Loeffler, Pete Kingston
SOU0525R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 19, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160519 WORFDB8, F&BI 605374 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605374 -01	02MW10-20160519
605374 -02	02MW07-20160519
605374 -03	02MW01-20160519
605374 -04	02MW06-20160519
605374 -05	02MW16-20160519

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605374

Date Extracted: 05/20/16

Date Analyzed: 05/20/16

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

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
02MW10-20160519 605374-01	<1	<1	<1	<3	<100	79
02MW07-20160519 605374-02	<1	<1	<1	<3	<100	83
02MW01-20160519 605374-03	<1	<1	<1	<3	<100	81
02MW06-20160519 605374-04	<1	<1	<1	<3	<100	81
02MW16-20160519 605374-05	<1	<1	<1	<3	<100	82
Method Blank 06-1002 MB	<1	<1	<1	<3	<100	80

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605374

Date Extracted: 05/23/16

Date Analyzed: 05/23/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 47-140)
02MW10-20160519 605374-01	<50	<250	105
02MW07-20160519 605374-02	160 x	<250	112
02MW01-20160519 605374-03	88 x	<250	104
02MW06-20160519 605374-04	260 x	<250	113
02MW16-20160519 605374-05	220 x	<250	106
Method Blank 06-1042 MB	<50	<250	115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605374

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

Laboratory Code: 605374-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	98	72-119
Toluene	ug/L (ppb)	50	103	71-113
Ethylbenzene	ug/L (ppb)	50	106	72-114
Xylenes	ug/L (ppb)	150	96	72-113
Gasoline	ug/L (ppb)	1,000	94	70-119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605374

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

Laboratory Code: Laboratory Control Sample

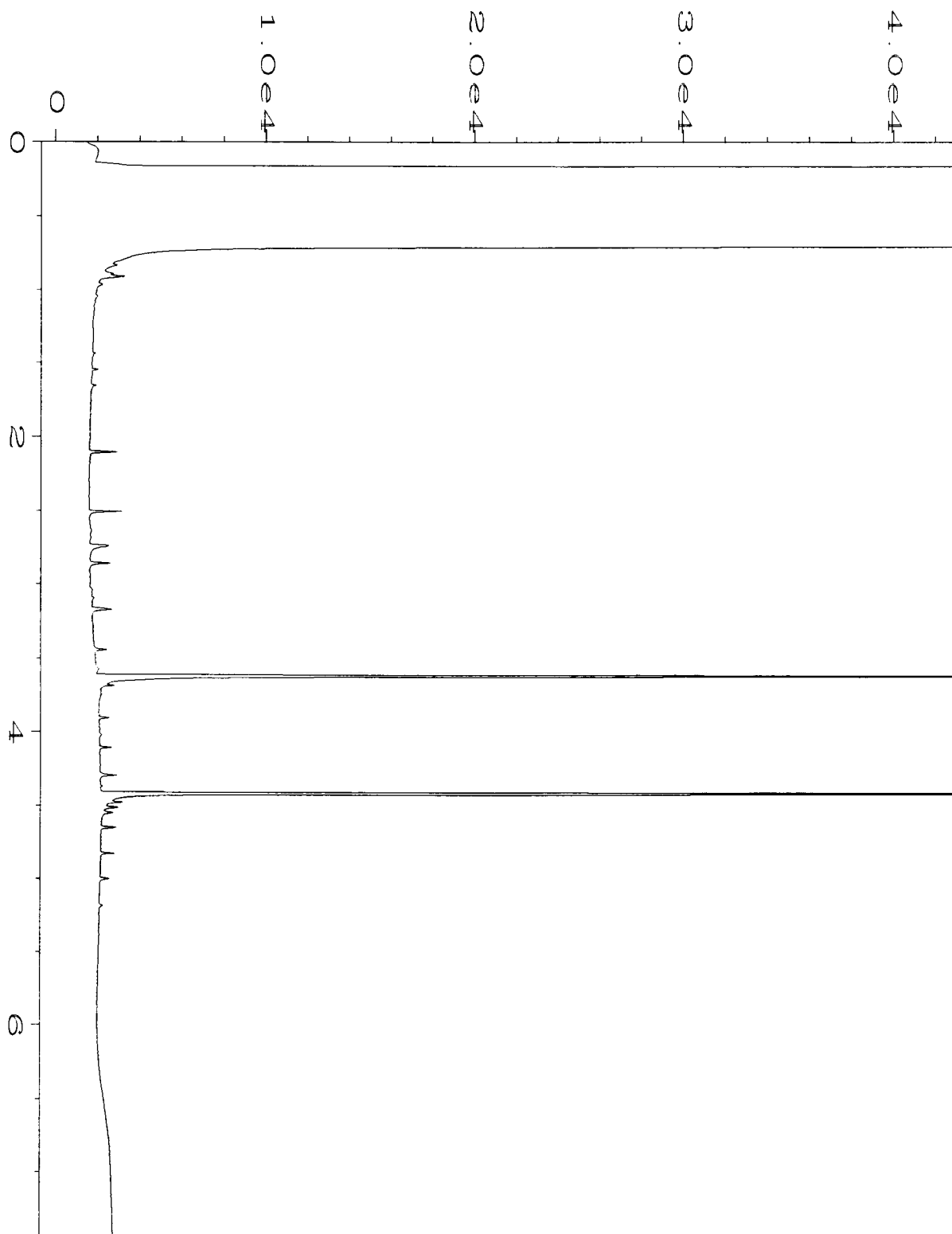
Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	113	112	61-133	1

FRIEDMAN & BRUYA, INC.

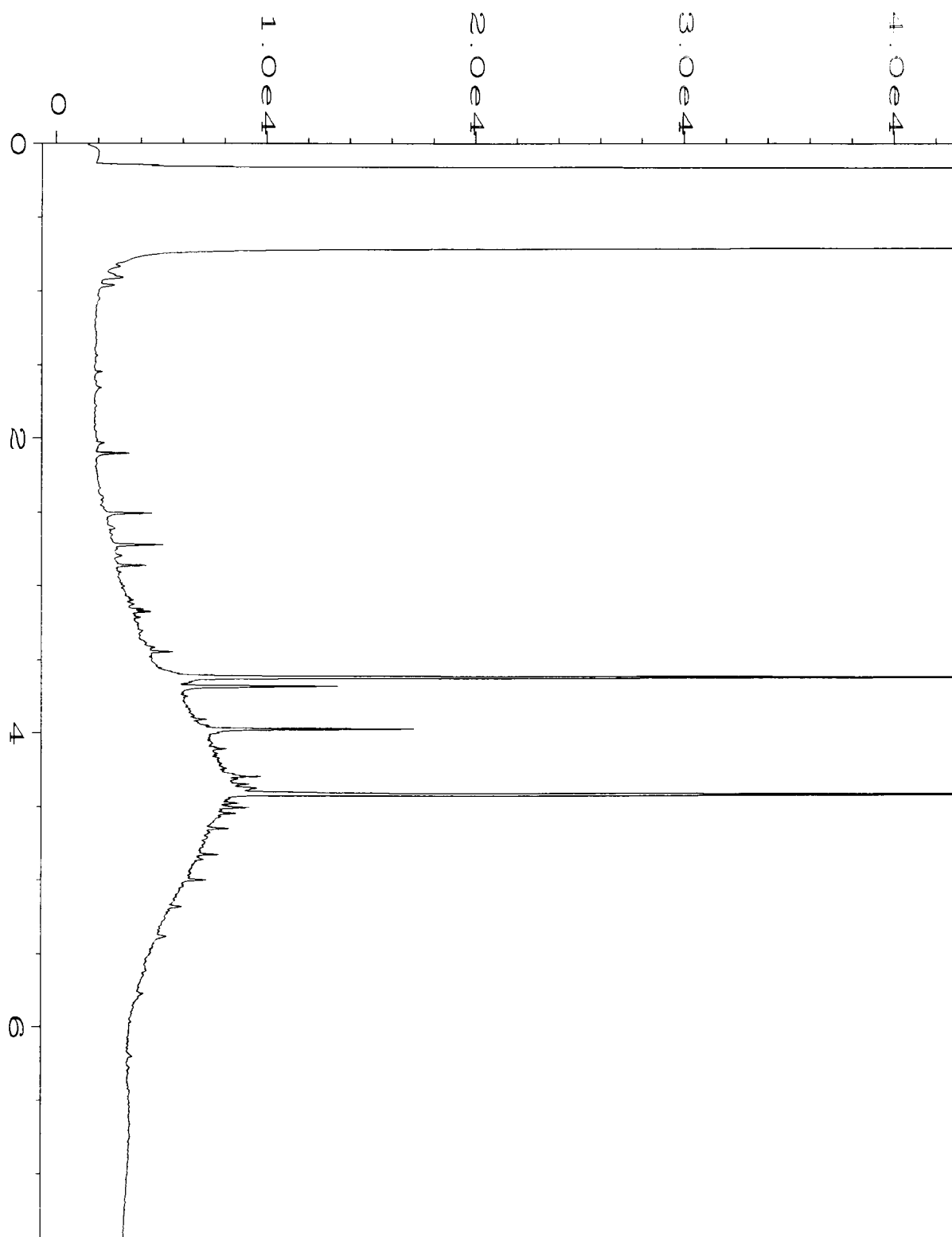
ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

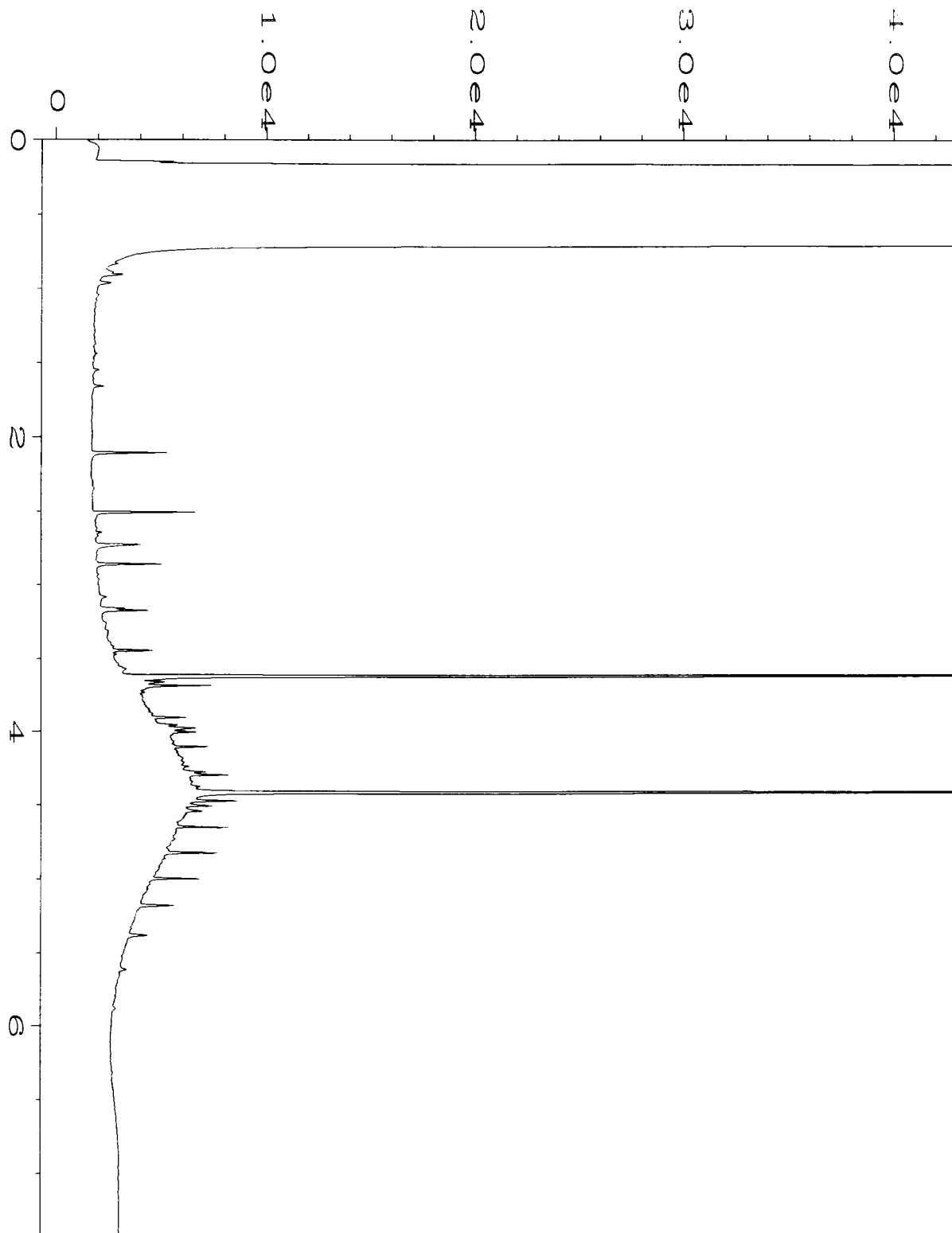
- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not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



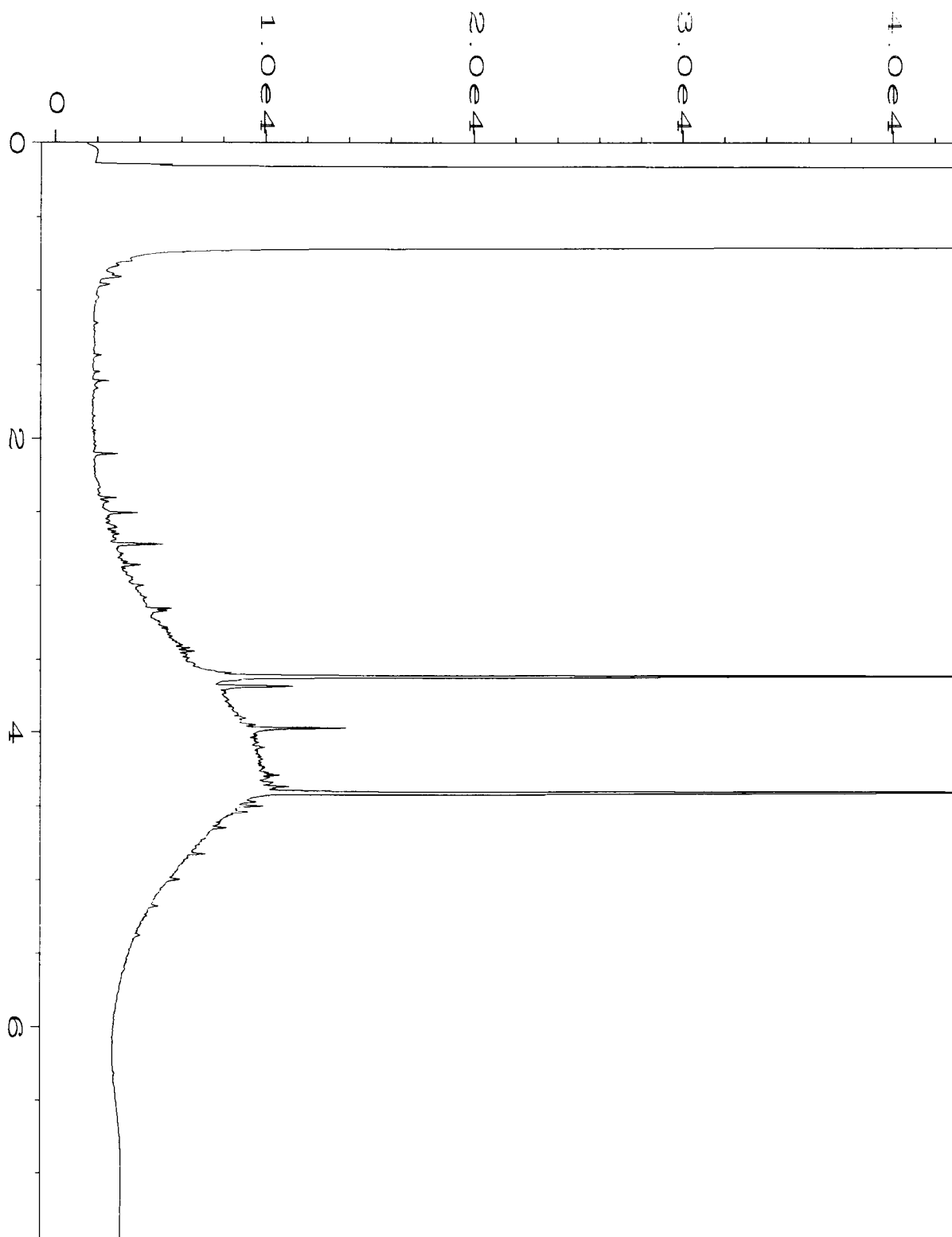
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Operator	: mwdl	Vial Number	: 23
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605374-01	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 23 May 16 01:33 PM	Analysis Method	: DX.MTH
Report Created on:	24 May 16 01:18 PM		



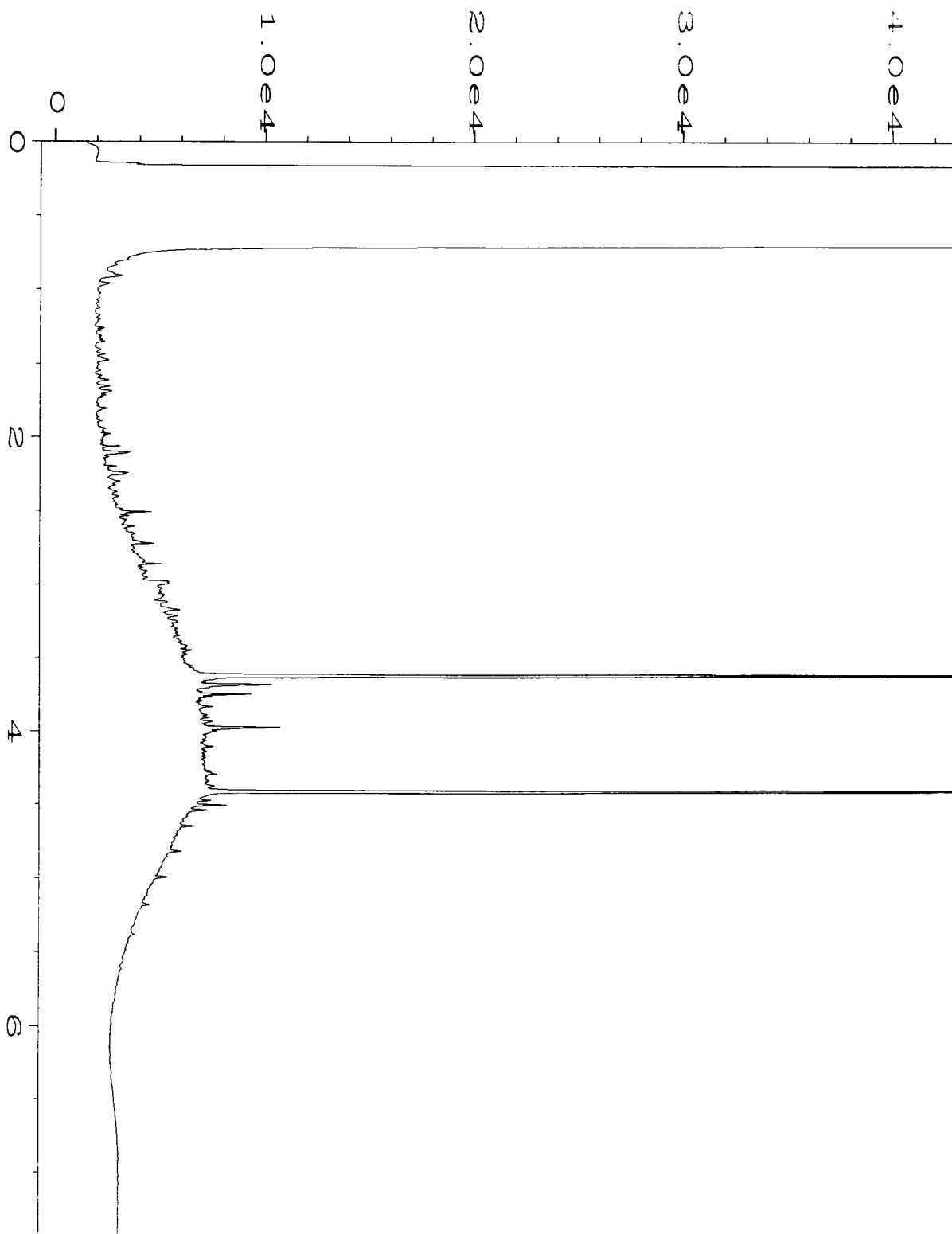
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Operator	: mwdl	Vial Number	: 24
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605374-02	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 23 May 16 01:45 PM	Analysis Method	: DX.MTH
Report Created on:	24 May 16 01:18 PM		



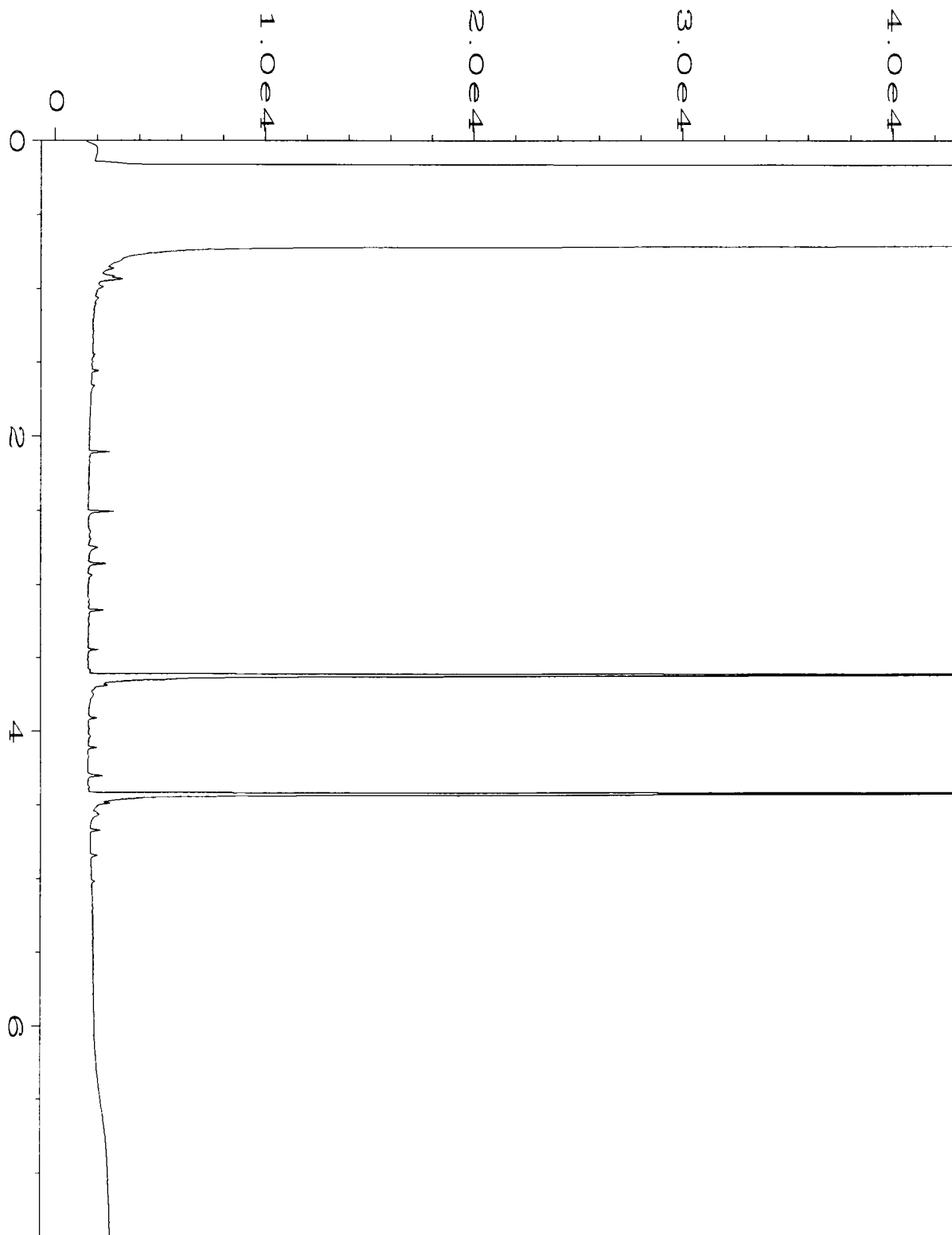
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Operator	: mwdl	Vial Number	: 25
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605374-03	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 23 May 16 01:56 PM	Analysis Method	: DX.MTH
Report Created on:	24 May 16 01:19 PM		



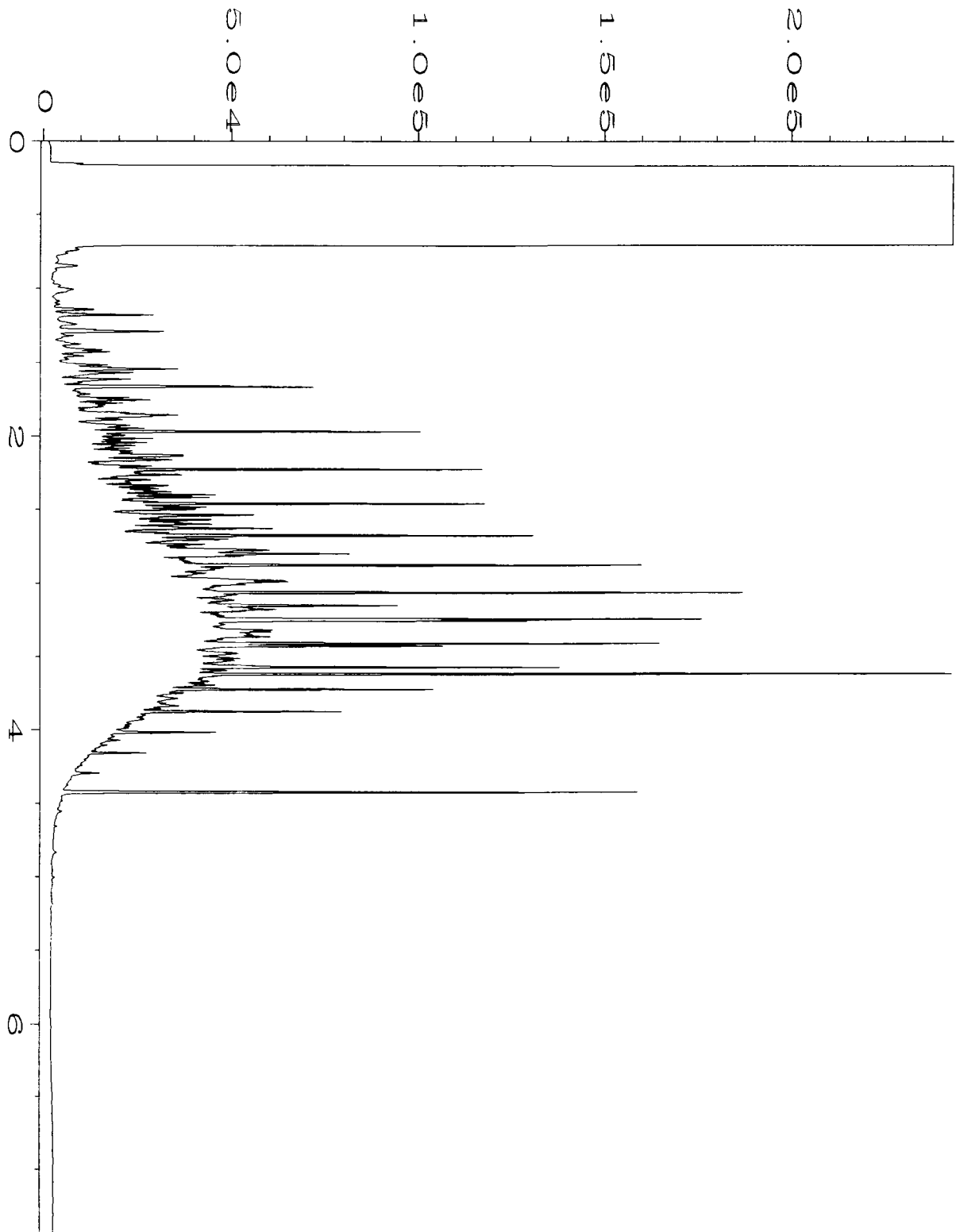
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Operator	: mwdl	Vial Number	: 26
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605374-04	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 23 May 16 02:08 PM	Analysis Method	: DX.MTH
Report Created on:	24 May 16 01:19 PM		



Data File Name	: C:\HPCHEM\4\DATA\05-23-16\027F0601.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 27
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605374-05	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 23 May 16 02:20 PM	Analysis Method	: DX.MTH
Report Created on:	24 May 16 01:19 PM		



Data File Name	: C:\HPCHEM\4\DATA\05-23-16\018F0601.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 18
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-1042 mb	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 23 May 16 12:35 PM	Analysis Method	: DX.MTH
Report Created on:	24 May 16 01:19 PM		



Data File Name	: C:\HPCHEM\4\DATA\05-23-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 23 May 16 06:46 AM	Analysis Method	: DX.MTH
Report Created on:	24 May 16 01:19 PM		

605374

SAMPLE CHAIN OF CUSTODY

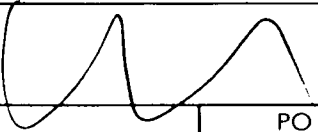
ME 05/19/16
 Page # 1 of 1
 TURNAROUND TIME 1/1/16

Send Report To: Tim Brown, cc: Jessica Brown, Pete Kingston, Jennifer Cyr, Jonathan Loeffler

Company Sound Environmental Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

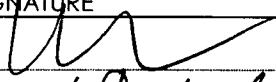
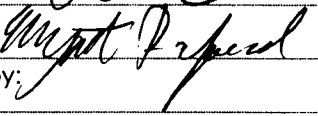
SAMPLERS (signature) 	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - East Waterfront Property	PO # 0440-004-42
REMARKS	EIM Y / N

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	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	PCP by EPA 8270D (low-level detection limits)	cVOCs by EPA 8260B	Nitrate and Sulfate by EPA 300.0	Methane, Ethane, and Ethene by RSK 175	Notes
02MW10-20160519	02MW10	5	81 A-D	5/19/16	1000	water	4	X	X	X					
02MW07-20160519	02MW07	5.2	02	5/19/16	1105	water	4	X	X	X					
02MW01-20160519	02MW01	15	03	5/19/16	1145	water	4	X	X	X					
02MW06-20160519	02MW06	15	04	5/19/16	1240	water	4	X	X	X					
02MW16-20160519	02MW16	11	05	5/19/16	1335	water	4	X	X	X					
CS 5/19/16															
Samples received at 3 °C															

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	Courtney Schaumburg	SoundEarth	5/19/16	1650
	Elizabeth Radford	F&B	5/19/16	1650
Relinquished by:				
Received by:				