

SAMPLE CHAIN OF CUSTODY ME 12/4/04
 Page # 1 of 2

Send Report To Frank Moerer
 Company AESI
 Address 911 Fifth Ave Ste 100
 City, State, ZIP Kirkland, WA 98033
 Phone # 425 766 5712 Fax #

SAMPLERS (signature) [Signature] PO#
 PROJECT NAME/NO. NatureEdge/KV030772B
 REMARKS

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 24 hours
 Rush charges authorized by
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | Notes | |
|-----------|--------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-------|-----|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | | HFS |
| PC-18 | 16-20 | 12/14 | 0817 | Soil | 1 for 1 jar | X | X | X | | | | |
| PC-18 | 20-24 | | 0823 | | | X | X | X | | | | |
| PC-33 | 16-20 | | 0758 | | | X | X | X | | | | |
| PC-33 | 20-24 | | 0805 | | | X | X | X | | | | |
| PC-47 | 0-4 | | 0957 | | | X | X | X | | | | |
| PC-47 | 4-8 | | 1003 | | | X | X | X | | | | |
| PC-57 | 0-4 | | 1023 | | | X | X | X | | | | |
| PC-57 | 4-8 | | 1032 | | | X | X | X | | | | |
| PC-50 | 0-4 | | 1044 | | | X | X | X | | | | |
| PC-50 | 4-8 | | 1053 | | | X | X | X | | | | |

SIGNATURE
 Relinquished by: [Signature]
 Received by: [Signature]
 Relinquished by:
 Received by:

PRINT NAME
 Frank Moerer
 Frank Badya

COMPANY
 AESI
 FAB

DATE
 12/14/04
 12/14/04

TIME
 1311
 1311

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

412091

SAMPLE CHAIN OF CUSTODY ME 12/4/14

VSZ
EDY

Page # 2 of 2

Send Report To Frank Woelker
 Company AESF
 Address 911 Fifth Ave Ste 100
 City, State, ZIP Kirkland WA 98033
 Phone # 425 766 512 Fax # _____

SAMPLERS (signature) [Signature] PO# _____
 PROJECT NAME/NO. Norridge / K03072B
 REMARKS _____

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 24 hour
 Rush charges authorized by _____
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | Notes |
|-----------|--------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-----------|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | |
| PC-52 0-4 | A-E 11 | 12/4/14 | 1103 | Soil | 1103 | ✓ | ✓ | ✓ | | | ✓ per FM |
| PC-52 4-8 | A-E 12 | | 1109 | | 1109 | ✓ | ✓ | ✓ | | | M 12/4/14 |
| PC-48 0-4 | A-E 17 | | 1121 | | | ✓ | ✓ | ✓ | | | |
| PC-48 4-8 | 14AE | | 1131 | | | ✓ | ✓ | ✓ | | | |
| PC-53 0-4 | 15AE | | 1148 | | | ✓ | ✓ | ✓ | | | |
| PC-53 4-8 | 16AE | | 1155 | | | ✓ | ✓ | ✓ | | | |
| PC-54 0-4 | 17AE | | 1205 | | | ✓ | ✓ | ✓ | | | |
| PC-54 4-8 | 18AE | | 1211 | | | ✓ | ✓ | ✓ | | | |

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|------------------------|---------------|---------|---------|------|
| <u>[Signature]</u> | Frank Woelker | AESF | 12/4/14 | 1311 |
| <u>[Signature]</u> | James Bruch | FB | 12/4/14 | 1311 |
| Relinquished by: _____ | | | | |
| Received by: _____ | | | | |
| Relinquished by: _____ | | | | |
| Received by: _____ | | | | |

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

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

December 9, 2014

Jon Sondergaard, Project Manager
Associated Earth Sciences, Inc.
911 5th Avenue, Suite 100
Kirkland, WA 98033

Dear Mr. Sondergaard:

Included are the results from the testing of material submitted on December 5, 2014 from the North Edge KV030772B, F&BI 412121 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Frank Mocker
AE11209R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 5, 2014 by Friedman & Bruya, Inc. from the Associated Earth Sciences North Edge KV030772B, F&BI 412121 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Associated Earth Sciences</u> |
|----------------------|----------------------------------|
| 412121 -01 | PC-37 4-8 |
| 412121 -02 | PC-37 8-12 |
| 412121 -03 | PC-56 0-4 |
| 412121 -04 | PC-56 4-8 |
| 412121 -05 | PC-49 4-8 |
| 412121 -06 | PC-49 8-12 |
| 412121 -07 | PC-38 4-8 |
| 412121 -08 | PC-38 8-12 |
| 412121 -09 | PC-55 4-8 |
| 412121 -10 | PC-55 8-12 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/09/14
 Date Received: 12/05/14
 Project: North Edge KV030772B, F&BI 412121
 Date Extracted: 12/05/14
 Date Analyzed: 12/05/14, 12/06/14 and 12/08/14

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|-------------------------------------------------|
| PC-37 4-8 412121-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 79 |
| PC-37 8-12 412121-02 1/10 | <0.02 j | 1.4 | 6.4 | 9.2 | 1,600 | 90 |
| PC-56 0-4 412121-03 | 0.042 | 0.11 | <0.02 | <0.06 | <2 | 79 |
| PC-56 4-8 412121-04 1/5 | 0.04 j | 0.37 | <0.1 | 4.4 | 690 | 90 |
| PC-49 4-8 412121-05 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 80 |
| PC-49 8-12 412121-06 | <0.02 | <0.02 | 0.087 | 0.087 | 27 | 91 |
| PC-38 4-8 412121-07 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 79 |
| PC-38 8-12 412121-08 | <0.02 | <0.02 | 0.39 | 0.33 | 100 | 99 |
| PC-55 4-8 412121-09 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 78 |
| PC-55 8-12 412121-10 | <0.02 | 1.4 | <0.02 | 6.9 | 1,100 | ip |
| Method Blank 04-2433 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 79 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/09/14
 Date Received: 12/05/14
 Project: North Edge KV030772B, F&BI 412121
 Date Extracted: 12/05/14
 Date Analyzed: 12/05/14

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 56-165) |
|-----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| PC-37 4-8 412121-01 | <50 | <250 | 102 |
| PC-37 8-12 412121-02 | 1,400 | <250 | 95 |
| PC-56 0-4 412121-03 | <50 | <250 | 96 |
| PC-56 4-8 412121-04 | 620 | <250 | 93 |
| PC-49 4-8 412121-05 | <50 | <250 | 96 |
| PC-49 8-12 412121-06 | <50 | <250 | 101 |
| PC-38 4-8 412121-07 | <50 | <250 | 90 |
| PC-38 8-12 412121-08 | <50 | <250 | 90 |
| PC-55 4-8 412121-09 | <50 | <250 | 89 |
| PC-55 8-12 412121-10 | 1,600 | <250 | 90 |
| Method Blank 04-2449 MB | <50 | <250 | 95 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/09/14

Date Received: 12/05/14

Project: North Edge KV030772B, F&BI 412121

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

Laboratory Code: 412121-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|-----------------|---------------------------|------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery | |
|--------------|-----------------|-------------|------------------|---------------------|
| | | | LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 77 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 78 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 79 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 79 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 95 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/09/14

Date Received: 12/05/14

Project: North Edge KV030772B, F&BI 412121

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

Laboratory Code: 412121-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 96 | 95 | 63-146 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 95 | 79-144 |

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.

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

TURN AROUND TIME
 Standard (2 Weeks)
 RUSH 24 hours
 Rush charges authorized by F.S. Mosker

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

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. NorthEdge/1603072B

PO#

REMARKS

Send Report To Frank Mosker

Company AEST

Address 911 Fifth Ave Ste 100

City, State, ZIP Kirkland WA 98033

Phone # 206 766 5112 Fax #

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | Notes |
|-----------|--------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-----|----------------------------------|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | |
| PC-37 | 01A | 12/5/14 | 0916 | Soil | 1 jar | X | X | X | | | | |
| PC-37 | 02 | | 0924 | | 1 jar | X | X | X | | | | |
| PC-56 | 03 | | 0938 | | | X | X | X | | | | |
| PC-56 | 04 | | 0945 | | | X | X | X | | | | |
| PC-49 | 05 | | 1009 | | | X | X | X | | | | |
| PC-49 | 06 | | 1015 | | | X | X | X | | | | |
| PC-38 | 07 | | 1124 | | | X | X | X | | | | |
| PC-38 | 08 | | 1134 | | | X | X | X | | | | |
| PC-55 | 09 | | 1153 | | | X | X | X | | | | Samples received at <u>41</u> °C |
| PC-55 | 10 | | 1159 | | | X | X | X | | | | |

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

Relinquished by: [Signature]

Received by: [Signature]

Relinquished by: [Signature]

Received by: [Signature]

PRINT NAME: Frank Mosker, Jon Shimazu

COMPANY: AEST, FBI

DATE: 12/5/14

TIME: 1455

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

December 11, 2014

Jon Sondergaard, Project Manager
Associated Earth Sciences, Inc.
911 5th Avenue, Suite 100
Kirkland, WA 98033

Dear Mr. Sondergaard:

Included are the results from the testing of material submitted on December 10, 2014 from the North Edge KV030772B, F&BI 412187 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Frank Mocker
AE11211R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 10, 2014 by Friedman & Bruya, Inc. from the Associated Earth Sciences North Edge KV030772B, F&BI 412187 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Associated Earth Sciences</u> |
|----------------------|----------------------------------|
| 412187 -01 | PC-21 24-28 |
| 412187 -02 | PC-21 28-32 |
| 412187 -03 | PC-22 24-28 |
| 412187 -04 | PC-22 28-32 |
| 412187 -05 | PC-23 24-28 |
| 412187 -06 | PC-23 28-32 |
| 412187 -07 | PC-30 24-28 |
| 412187 -08 | PC-30 28-32 |
| 412187 -09 | PC-28 24-28 |
| 412187 -10 | PC-28 28-32 |
| 412187 -11 | PC-24 24-28 |
| 412187 -12 | PC-24 28-32 |
| 412187 -13 | PC-18 24-28 |
| 412187 -14 | PC-18 28-32 |
| 412187 -15 | PC-32 24-28 |
| 412187 -16 | PC-32 28-32 |
| 412187 -17 | PC-27 24-28 |
| 412187 -18 | PC-27 28-32 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/11/14
 Date Received: 12/10/14
 Project: North Edge KV030772B, F&BI 412187
 Date Extracted: 12/10/14
 Date Analyzed: 12/10/14 and 12/11/14

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING METHODS 8021B AND NWTPH-Gx**
 Results Reported on a Dry Weight Basis
 Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|-----------------------------------------------------|
| PC-21 24-28 412187-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| PC-21 28-32 412187-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| PC-22 24-28 412187-03 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 94 |
| PC-22 28-32 412187-04 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| PC-23 24-28 412187-05 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| PC-23 28-32 412187-06 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| PC-30 24-28 412187-07 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 92 |
| PC-30 28-32 412187-08 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 95 |
| PC-28 24-28 412187-09 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| PC-28 28-32 412187-10 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 92 |
| PC-24 24-28 412187-11 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/11/14
 Date Received: 12/10/14
 Project: North Edge KV030772B, F&BI 412187
 Date Extracted: 12/10/14
 Date Analyzed: 12/10/14 and 12/11/14

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING METHODS 8021B AND NWTPH-Gx**
 Results Reported on a Dry Weight Basis
 Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|-------------------------------------------------|
| PC-24 28-32 412187-12 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 92 |
| PC-18 24-28 412187-13 | <0.02 | <0.02 | 0.13 | 0.11 | 44 | 98 |
| PC-18 28-32 412187-14 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 94 |
| PC-32 24-28 412187-15 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 94 |
| PC-32 28-32 412187-16 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 94 |
| PC-27 24-28 412187-17 | <0.02 | <0.02 | <0.02 | <0.06 | 7.2 | 82 |
| PC-27 28-32 412187-18 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| Method Blank 04-2439 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/11/14
 Date Received: 12/10/14
 Project: North Edge KV030772B, F&BI 412187
 Date Extracted: 12/10/14
 Date Analyzed: 12/10/14

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

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

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 56-165) |
|-----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| PC-21 24-28 412187-01 | <50 | <250 | 116 |
| PC-21 28-32 412187-02 | <50 | <250 | 102 |
| PC-22 24-28 412187-03 | <50 | <250 | 105 |
| PC-22 28-32 412187-04 | <50 | <250 | 108 |
| PC-23 24-28 412187-05 | <50 | <250 | 107 |
| PC-23 28-32 412187-06 | <50 | <250 | 107 |
| PC-30 24-28 412187-07 | <50 | <250 | 110 |
| PC-30 28-32 412187-08 | <50 | <250 | 110 |
| PC-28 24-28 412187-09 | <50 | <250 | 107 |
| PC-28 28-32 412187-10 | <50 | <250 | 108 |
| PC-24 24-28 412187-11 | <50 | <250 | 107 |
| PC-24 28-32 412187-12 | <50 | <250 | 101 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/11/14
Date Received: 12/10/14
Project: North Edge KV030772B, F&BI 412187
Date Extracted: 12/10/14
Date Analyzed: 12/10/14

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 56-165) |
|-----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| PC-18 24-28 412187-13 | 140 | <250 | 117 |
| PC-18 28-32 412187-14 | <50 | <250 | 104 |
| PC-32 24-28 412187-15 | <50 | <250 | 103 |
| PC-32 28-32 412187-16 | <50 | <250 | 122 |
| PC-27 24-28 412187-17 | <50 | <250 | 105 |
| PC-27 28-32 412187-18 | <50 | <250 | 101 |
| Method Blank 04-2475 MB | <50 | <250 | 110 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/11/14

Date Received: 12/10/14

Project: North Edge KV030772B, F&BI 412187

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

Laboratory Code: 412187-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|-----------------|---------------------------|------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery | |
|--------------|-----------------|-------------|------------------|---------------------|
| | | | LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 89 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 89 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 91 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 90 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 95 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/11/14

Date Received: 12/10/14

Project: North Edge KV030772B, F&BI 412187

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

Laboratory Code: 412187-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 96 | 110 | 63-146 | 14 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 98 | 79-144 |

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.

412187

SAMPLE CHAIN OF CUSTODY

ME 12/10/14

US3 / 2 E03

Send Report To Friedman-Moore
 Company AGEST
 Address 911 Fifth Ave Ste 100
 City, State, ZIP Kirkland, WA 98033
 Phone # 425 766 5112 Fax # _____

SAMPLERS (signature) [Signature] PO# _____
 PROJECT NAME/NO. Northridge / 16V030772B
 REMARKS _____

Page # 1 of 1
 TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 24 hour
 Rush charges authorized by F.S. Moorer
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | Notes |
|-----------|-----------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-----|--------------------------|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | |
| PC-21 | 24-28 01E | 12/10/14 | 0826 | Soc1 | 1 each 1 juv | X | X | X | X | | | |
| PC-21 | 28-32 02 | } | 0832 | } | } | X | X | X | X | | | |
| PC-22 | 24-28 03 | | 0839 | | | X | X | X | X | | | |
| PC-22 | 28-32 04 | | 0845 | | | X | X | X | X | | | |
| PC-23 | 24-28 05 | | 0900 | | | X | X | X | X | | | |
| PC-23 | 28-32 06 | | 0908 | | | X | X | X | X | | | |
| PC-30 | 24-28 07 | } | 1108 | } | } | X | X | X | X | | | |
| PC-30 | 28-32 08 | | 1117 | | | X | X | X | X | | | |
| PC-28 | 24-28 09 | | 1129 | | | X | X | X | X | | | |
| PC-28 | 28-32 10 | 1133 | | | | X | 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

Relinquished by: [Signature] SIGNATURE
 Received by: Friedman-Moore PRINT NAME
 Relinquished by: [Signature] SIGNATURE
 Received by: AGEST COMPANY
 Relinquished by: [Signature] SIGNATURE
 Received by: FBI COMPANY
 Relinquished by: _____ SIGNATURE
 Received by: _____ COMPANY
 Relinquished by: _____ SIGNATURE
 Received by: _____ COMPANY

DATE: 12/10/14 TIME: 1352
 DATE: 12/10/14 TIME: 1352

412187

SAMPLE CHAIN OF CUSTODY

MG 12/10/14

vs3/rev 2

Send Report To Frank Moeter

Company AESC

Address 911 Fifth Ave Ste 100

City, State, ZIP Kirkland, WA 98033

Phone # 425 766 5112 Fax #

SAMPLERS Signature

PROJECT NAME/NO. Howards/KV030772B

PO#

REMARKS

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 24 hours
 Rush charges authorized by F.S. Moeter

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

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | Notes | |
|-----------|--------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-----|-------|--|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | | |
| PC-24 | 24-28 | 11A | 12/10/14 | 0145 | Soil | 1 jar | X | X | X | | | | |
| PC-24 | 28-32 | 12 | 1151 | | | 1 jar | X | X | X | | | | |
| PC-18 | 24-28 | 13 | 1222 | | | | X | X | X | | | | |
| PC-18 | 28-32 | 14 | 1231 | | | | X | X | X | | | | |
| PC-32 | 24-28 | 15 | 1202 | | | | X | X | X | | | | |
| PC-32 | 28-32 | 16 | 1209 | | | | X | X | X | | | | |
| PC-27 | 24-28 | 17 | 1252 | | | | X | X | X | | | | |
| PC-27 | 28-32 | 18 | 1257 | | | | 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

FORMS\COC\COC.DOC

| | | | | | |
|-----------------------------------|-----------|-----------------|---------|----------|------|
| Relinquished by: <u>Signature</u> | SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
| Received by: <u>Signature</u> | | Frank Moeter | AESC | 12/10/14 | 1352 |
| Relinquished by: <u>Signature</u> | | Michael Grayson | FIS Inc | 12/10/14 | 1352 |
| Received by: | | | | | |

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

December 12, 2014

Jon Sondergaard, Project Manager
Associated Earth Sciences, Inc.
911 5th Avenue, Suite 100
Kirkland, WA 98033

Dear Mr. Sondergaard:

Included are the results from the testing of material submitted on December 11, 2014 from the North Edge KV030772B, F&BI 412210 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Frank Mocker
AE11212R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 11, 2014 by Friedman & Bruya, Inc. from the Associated Earth Sciences North Edge KV030772B, F&BI 412210 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Associated Earth Sciences</u> |
|----------------------|----------------------------------|
| 412210 -01 | PC-5 7-11 |
| 412210 -02 | PC-5 11-15 |
| 412210 -03 | PC-39 11-15 |
| 412210 -04 | PC-39 15-19 |
| 412210 -05 | PC-55 11-15 |
| 412210 -06 | PC-55 15-19 |
| 412210 -07 | PC-56 7-11 |
| 412210 -08 | PC-56 11-15 |
| 412210 -09 | PC-53 7-11 |
| 412210 -10 | PC-53 11-15 |
| 412210 -11 | PC-57 11-15 |
| 412210 -12 | PC-57 15-19 |
| 412210 -13 | PC-38 11-15 |
| 412210 -14 | PC-38 15-19 |
| 412210 -15 | PC-46 7-11 |
| 412210 -16 | PC-46 11-15 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/12/14
 Date Received: 12/11/14
 Project: North Edge KV030772B, F&BI 412210
 Date Extracted: 12/11/14
 Date Analyzed: 12/11/14 and 12/12/14

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING METHODS 8021B AND NWTPH-Gx**
 Results Reported on a Dry Weight Basis
 Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|-----------------------------------------------------|
| PC-5 7-11 412210-01 1/2 | <0.02 j | 0.11 | 0.89 | 0.72 | 190 | 103 |
| PC-5 11-15 412210-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| PC-39 11-15 412210-03 | <0.02 | <0.02 | 0.15 | 0.087 | 52 | 96 |
| PC-39 15-19 412210-04 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 92 |
| PC-55 11-15 412210-05 1/2 | <0.02 j | 0.10 | 0.80 | 0.66 | 180 | 98 |
| PC-55 15-19 412210-06 | <0.02 | <0.02 | <0.02 | <0.06 | 5.7 | 93 |
| PC-56 7-11 412210-07 1/2 | <0.02 j | 0.077 | 0.75 | 0.65 | 180 | 101 |
| PC-56 11-15 412210-08 | <0.02 | <0.02 | <0.02 | <0.06 | 3.0 | 92 |
| PC-53 7-11 412210-09 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 92 |
| PC-53 11-15 412210-10 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 93 |
| PC-57 11-15 412210-11 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 91 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/12/14
 Date Received: 12/11/14
 Project: North Edge KV030772B, F&BI 412210
 Date Extracted: 12/11/14
 Date Analyzed: 12/11/14 and 12/12/14

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING METHODS 8021B AND NWTPH-Gx**
 Results Reported on a Dry Weight Basis
 Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|-----------------------------------------------------|
| PC-57 15-19 412210-12 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 80 |
| PC-38 11-15 412210-13 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 91 |
| PC-38 15-19 412210-14 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 92 |
| PC-46 7-11 412210-15 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 79 |
| PC-46 11-15 412210-16 1/2 | <0.02 j | 0.15 | 0.93 | 0.72 | 220 | 91 |
| Method Blank 04-2481 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 91 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/12/14
 Date Received: 12/11/14
 Project: North Edge KV030772B, F&BI 412210
 Date Extracted: 12/11/14
 Date Analyzed: 12/11/14 and 12/12/14

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

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

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168) |
|-----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| PC-5 7-11 412210-01 | 420 | <250 | 118 |
| PC-5 11-15 412210-02 | <50 | <250 | 125 |
| PC-39 11-15 412210-03 | 210 | <250 | 115 |
| PC-39 15-19 412210-04 | <50 | <250 | 117 |
| PC-55 11-15 412210-05 | 610 | <250 | 97 |
| PC-55 15-19 412210-06 | 82 | <250 | 99 |
| PC-56 7-11 412210-07 | 270 | <250 | 95 |
| PC-56 11-15 412210-08 | <50 | <250 | 93 |
| PC-53 7-11 412210-09 | <50 | <250 | 98 |
| PC-53 11-15 412210-10 | <50 | <250 | 96 |
| PC-57 11-15 412210-11 | <50 | <250 | 99 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/12/14
Date Received: 12/11/14
Project: North Edge KV030772B, F&BI 412210
Date Extracted: 12/11/14
Date Analyzed: 12/11/14 and 12/12/14

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168) |
|-----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| PC-57 15-19 412210-12 | <50 | <250 | 97 |
| PC-38 11-15 412210-13 | <50 | <250 | 97 |
| PC-38 15-19 412210-14 | <50 | <250 | 91 |
| PC-46 7-11 412210-15 | <50 | <250 | 98 |
| PC-46 11-15 412210-16 | 1,200 | <250 | 90 |
| Method Blank 04-2490 MB | <50 | <250 | 123 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/12/14

Date Received: 12/11/14

Project: North Edge KV030772B, F&BI 412210

**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: 412210-13 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|-----------------|---------------------------|------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|-----------------|-------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 77 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 78 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 81 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 80 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 90 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/12/14

Date Received: 12/11/14

Project: North Edge KV030772B, F&BI 412210

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

Laboratory Code: 412210-12 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|-----------------|-------------|------------------------|---------------------|----------------------|---------------------|----------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 98 | 106 | 73-135 | 8 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|-----------------|-------------|----------------------|---------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 108 | 74-139 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

SAMPLE CHAIN OF CUSTODY ME 12/11/14
 VS3/A04
 Page # 1 of 2

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. New Medre / KVO3072B
 PO# _____
 REMARKS _____

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 24 hour
 Rush charges authorized by F.S. Mosher
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | Notes | |
|-------------|--------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-------|-----|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | | HFS |
| PC-5 7-11 | A-01 | 12/11/14 | 1043 | Soil | 1 jar | X | X | X | | | | |
| PC-5 11-15 | 02 | | 1053 | | 1 jar | X | X | X | | | | |
| PC-39 11-15 | 03 | | 1139 | | | X | X | X | | | | |
| PC-39 15-19 | 04 | | 1147 | | | X | X | X | | | | |
| PC-55 11-15 | 05 | | 1157 | | | X | X | X | | | | |
| PC-55 15-19 | 06 | | 1211 | | | X | X | X | | | | |
| PC-56 7-11 | 07 | | 1315 | | | X | X | X | | | | |
| PC-56 11-15 | 08 | | 1344 | | | X | X | X | | | | |
| PC-53 7-11 | 09 | | 1222 | | | X | X | X | | | | |
| PC-53 11-15 | 10 | | 1231 | | | X | X | X | | | | |

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|------------------------|--------------|---------|----------|------|
| <u>[Signature]</u> | Frank Mosher | AEST | 12/11/14 | 1447 |
| <u>[Signature]</u> | HONG NGUYEN | FBI | | |
| Relinquished by: _____ | | | | |
| Received by: _____ | | | | |
| Relinquished by: _____ | | | | |
| Received by: _____ | | | | |

412210

SAMPLE CHAIN OF CUSTODY

ME 12/11/14

VS3/A04

Page # 2 of 2

Send Report To Frank Wacker
 Company AGEE
 Address 911 Fifth Ave Ste 100
 City, State, ZIP Kirkland, WA 98033
 Phone # 425 286 5712 Fax # _____

SAMPLERS (signature) [Signature] PO# _____
 PROJECT NAME/NO. Northridge KV03072B
 REMARKS _____

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 24 hour
 Rush charges authorized by F.S. Wacker
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | Notes |
|-----------|--------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-----|-------|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | |
| PC-57 | 11-15 | 12/11/14 | 1118 | Soil | 1 lot | X | X | X | | | | |
| PC-57 | 15-19 | | 1125 | | | X | X | X | | | | |
| PC-38 | 11-15 | | 1357 | | | X | X | X | | | | |
| PC-38 | 15-19 | | 1404 | | | X | X | X | | | | |
| PC-46 | 7-11 | | 1316 | | | X | X | X | | | | |
| PC-46 | 11-15 | | 1323 | | | X | X | X | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

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

Signature: [Signature]
 Relinquished by: [Signature]
 Received by: [Signature]
 Relinquished by: [Signature]
 Received by: _____

PRINT NAME: Frank Wacker
 COMPANY: AGEE
 DATE: 12/11/14
 TIME: 1447

PRINT NAME: HONG NGUYEN
 COMPANY: FBI
 DATE: ✓
 TIME: ✓

Received at: 3:00

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

December 23, 2014

Jon Sondergaard, Project Manager
Associated Earth Sciences, Inc.
911 5th Avenue, Suite 100
Kirkland, WA 98033

Dear Mr. Sondergaard:

Included are the results from the testing of material submitted on December 15, 2014 from the North Edge KV030772B, F&BI 412254 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Frank Mocker
AE11223R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 15, 2014 by Friedman & Bruya, Inc. from the Associated Earth Sciences North Edge KV030772B, F&BI 412254 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Associated Earth Sciences</u> |
|----------------------|----------------------------------|
| 412254 -01 | SW-8 @ 10' |
| 412254 -02 | SW-9 @ 10' |
| 412254 -03 | SW-10 @ 10' |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14
 Date Received: 12/15/14
 Project: North Edge KV030772B, F&BI 412254
 Date Extracted: 12/16/14
 Date Analyzed: 12/16/14 and 12/17/14

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING METHODS 8021B AND NWTPH-Gx**
 Results Reported on a Dry Weight Basis
 Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|-------------------------------------------------|
| SW-8 @ 10' 412254-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 86 |
| SW-9 @ 10' 412254-02 1/5 | <0.02 j | 0.29 | 2.5 | 2.3 | 680 | 102 |
| SW-10 @ 10' 412254-03 1/5 | <0.02 j | <0.1 | 0.19 | <0.3 | 200 | 88 |
| Method Blank 04-2488 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 82 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14
Date Received: 12/15/14
Project: North Edge KV030772B, F&BI 412254
Date Extracted: 12/15/14
Date Analyzed: 12/15/14

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 56-165) |
|-----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| SW-8 @ 10' 412254-01 | <50 | <250 | 102 |
| SW-9 @ 10' 412254-02 | 1,800 | <250 | 93 |
| SW-10 @ 10' 412254-03 | 890 x | 390 | 99 |
| Method Blank 04-2494 MB | <50 | <250 | 101 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14

Date Received: 12/15/14

Project: North Edge KV030772B, F&BI 412254

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

Laboratory Code: 412254-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|-----------------|---------------------------|------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|-----------------|-------------|-----------------|------------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 79 | 69-120 |
| Toluene | mg/kg (ppm) | 0.5 | 81 | 70-117 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 82 | 65-123 |
| Xylenes | mg/kg (ppm) | 1.5 | 82 | 66-120 |
| Gasoline | mg/kg (ppm) | 20 | 90 | 71-131 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14

Date Received: 12/15/14

Project: North Edge KV030772B, F&BI 412254

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

Laboratory Code: 412231-10 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|-----------------|-------------|------------------------|---------------------|----------------------|---------------------|----------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 111 | 111 | 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 | 110 | 74-139 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

412254

SAMPLE CHAIN OF CUSTODY

ME

12/15/14

USI/A01

Send Report To Franke Mosker
 Company WEST
 Address 911 Fifth Ave Ste 100
 City, State, ZIP Kirkland, WA 98033
 Phone # 425 766 5112 Fax # _____

SAMPLERS (signature) [Signature] of _____
 PROJECT NAME/NO. No An Edge/KV030772B PO# _____
 REMARKS _____

- TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by _____
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | Notes |
|-------------|--------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-----|-------|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | |
| SW-8 @ 10' | 012 | 12/15/14 | 1101 | Soil | 1 | X | X | X | | | | |
| SW-9 @ 10' | 02 | 1155 | 1155 | Soil | 1 | X | X | X | | | | |
| SW-10 @ 10' | 03 | 1330 | 1330 | Soil | 1 | X | X | X | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Samples received at 5 °C

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--------------------|----------------------|-------------|-----------------|-------------|
| <u>[Signature]</u> | <u>Franke Mosker</u> | <u>WEST</u> | <u>12/15/14</u> | <u>1510</u> |
| <u>[Signature]</u> | <u>VINCH</u> | <u>FBI</u> | <u>12/15/14</u> | <u>1510</u> |
| Relinquished by: | | | | |
| Received by: | | | | |
| Relinquished by: | | | | |
| Received by: | | | | |

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

5 °C

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

December 23, 2014

Jon Sondergaard, Project Manager
Associated Earth Sciences, Inc.
911 5th Avenue, Suite 100
Kirkland, WA 98033

Dear Mr. Sondergaard:

Included are the results from the testing of material submitted on December 17, 2014 from the North Edge KV030772B, F&BI 412290 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Frank Mocker
AE11223R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 17, 2014 by Friedman & Bruya, Inc. from the Associated Earth Sciences North Edge KV030772B, F&BI 412290 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Associated Earth Sciences</u> |
|----------------------|----------------------------------|
| 412290 -01 | SW-11 @ 10' |
| 412290 -02 | SW-12 @ 10' |
| 412290 -03 | SW-13 @ 10' |
| 412290 -04 | SW-14 @ 10' |
| 412290 -05 | SW-15 @ 10' |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14

Date Received: 12/17/14

Project: North Edge KV030772B, F&BI 412290

Date Extracted: 12/18/14

Date Analyzed: 12/18/14, 12/19/14, and 12/22/14

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-132) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|-----------------------------------------------------|
| SW-11 @ 10' 412290-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 85 |
| SW-12 @ 10' 412290-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 102 |
| SW-13 @ 10' 412290-03 | <0.02 | <0.02 | <0.02 | 0.10 | <2 | 102 |
| SW-14 @ 10' 412290-04 1/10 | 1.9 | 40 | 21 | 130 | 2,700 | ip |
| SW-15 @ 10' 412290-05 1/5 | <0.02 j | <0.1 | 1.8 | 6.0 | 780 | 132 |
| Method Blank 04-2513 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 107 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14
Date Received: 12/17/14
Project: North Edge KV030772B, F&BI 412290
Date Extracted: 12/17/14
Date Analyzed: 12/17/14

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144) |
|-----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| SW-11 @ 10' 412290-01 | <50 | <250 | 111 |
| SW-12 @ 10' 412290-02 | <50 | <250 | 115 |
| SW-13 @ 10' 412290-03 | <50 | <250 | 112 |
| SW-14 @ 10' 412290-04 | 9,900 | 300 x | 108 |
| SW-15 @ 10' 412290-05 | 6,900 | <250 | 114 |
| Method Blank 04-2522 MB | <50 | <250 | 115 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14

Date Received: 12/17/14

Project: North Edge KV030772B, F&BI 412290

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

Laboratory Code: 412312-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|-----------------|---------------------------|------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|-----------------|-------------|--------------|---------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 90 | 66-121 |
| Toluene | mg/kg (ppm) | 0.5 | 96 | 72-128 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 97 | 69-132 |
| Xylenes | mg/kg (ppm) | 1.5 | 98 | 69-131 |
| Gasoline | mg/kg (ppm) | 20 | 95 | 61-153 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14

Date Received: 12/17/14

Project: North Edge KV030772B, F&BI 412290

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

Laboratory Code: 412280-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 114 | 116 | 64-133 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 117 | 58-147 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

412290
 Send Report To Frank Weeber
 Company AESF
 Address 911 Fifth Ave Ste 100
 City, State, ZIP Portland, WA 98033
 Phone # 257665712 Fax #

ME 12/17/14 vs API
 Page # 1 of 1

SAMPLE CHAIN OF CUSTODY
 SAMPLERS (signature) [Signature] PO#
 PROJECT NAME/NO. North Edge / 15V03072B
 REMARKS

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

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

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | Notes | |
|-------------|--------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-----|-------|--|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | | |
| SW-11 @ 10' | A-01E | 12/16/14 | 0924 | Soil | 1 vent 1 jar | X | X | X | | | | | |
| SW-12 @ 10' | 02 | ~ | 1139 | ~ | ~ | X | X | X | | | | | |
| SW-13 @ 10' | 03 | ~ | 1346 | ~ | ~ | X | X | X | | | | | |
| SW-14 @ 10' | 04 | ~ | 1401 | ~ | ~ | X | X | X | | | | | |
| SW-15 @ 10' | 05 | 12/17/14 | 0726 | Soil | 1 vent 1 jar | X | X | X | | | | | |

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--------------------|---------------|---------|----------|------|
| <u>[Signature]</u> | Frank Weeber | AESF | 12/17/14 | 0935 |
| <u>[Signature]</u> | Matt Langston | F-Store | 12/17/14 | 0935 |
| Relinquished by: | | | | |
| Received by: | | | | |
| Relinquished by: | | | | |
| Received by: | | | | |

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

Samples received at 4 °C

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

December 23, 2014

Jon Sondergaard, Project Manager
Associated Earth Sciences, Inc.
911 5th Avenue, Suite 100
Kirkland, WA 98033

Dear Mr. Sondergaard:

Included are the results from the testing of material submitted on December 17, 2014 from the North Edge KV030772B, F&BI 412300 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Frank Mocker
AE11223R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 17, 2014 by Friedman & Bruya, Inc. from the Associated Earth Sciences North Edge KV030772B, F&BI 412300 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Associated Earth Sciences</u> |
|----------------------|----------------------------------|
| 412300 -01 | SW-5 @ 25' |
| 412300 -02 | SW-16 @ 15' |
| 412300 -03 | SW-1 @ 35' |
| 412300 -04 | SW-2 @ 34' |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14
Date Received: 12/17/14
Project: North Edge KV030772B, F&BI 412300
Date Extracted: 12/18/14
Date Analyzed: 12/18/14

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-132) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|-----------------------------------------------------|
| SW-5 @ 25' 412300-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 100 |
| SW-16 @ 15' 412300-02 | <0.02 | <0.02 | 0.024 | <0.06 | 4.6 | 102 |
| SW-1 @ 35' 412300-03 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 103 |
| SW-2 @ 34' 412300-04 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 96 |
| Method Blank 04-2513 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 107 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14
Date Received: 12/17/14
Project: North Edge KV030772B, F&BI 412300
Date Extracted: 12/18/14
Date Analyzed: 12/18/14

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

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

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168) |
|-----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| SW-5 @ 25' 412300-01 | <50 | <250 | 101 |
| SW-16 @ 15' 412300-02 | <50 | <250 | 93 |
| SW-1 @ 35' 412300-03 | <50 | <250 | 99 |
| SW-2 @ 34' 412300-04 | <50 | <250 | 97 |
| Method Blank 04-2534 MB | <50 | <250 | 95 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14

Date Received: 12/17/14

Project: North Edge KV030772B, F&BI 412300

**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: 412312-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|-----------------|---------------------------|------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery | |
|--------------|-----------------|-------------|------------------|---------------------|
| | | | LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 90 | 66-121 |
| Toluene | mg/kg (ppm) | 0.5 | 96 | 72-128 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 97 | 69-132 |
| Xylenes | mg/kg (ppm) | 1.5 | 98 | 69-131 |
| Gasoline | mg/kg (ppm) | 20 | 95 | 61-153 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14

Date Received: 12/17/14

Project: North Edge KV030772B, F&BI 412300

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

Laboratory Code: 412309-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|-----------------|-------------|------------------------|---------------------|----------------------|---------------------|----------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 260 | 115 | 109 | 73-135 | 5 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|-----------------|-------------|----------------------|---------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 124 | 74-139 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

SAMPLE CHAIN OF CUSTODY ME 12-17-14 A01 / VS1

412 300

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

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. Northridge / KVO 30772B

PO# _____

REMARKS _____

Send Report To Frank Mosher

Company WEST All Fifth Ave Ste 100

Address _____

City, State, ZIP Kirkland, WA 98033

Phone # 425 766 5112 Fax # _____

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | Notes | |
|---------------------------|--------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-------|-----------------|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | | HFS |
| SW-15 @ 10' PV | | 12/17/14 | 0726 | Soil | 1 jar | X | X | X | | | | do not received |
| SW-5 @ 25' | 01A-E | | 1030 | ~ | ~ | X | X | X | | | | |
| SW-16 @ 15' | 02T | | 1400 | ~ | ~ | X | X | X | | | | |
| SW-1 @ 35' | 03T | | 1055 | ~ | ~ | X | X | X | | | | |
| SW-2 @ 35' | 04T | | 1115 | ~ | ~ | X | X | X | | | | |
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Signature [Signature]

PRINT NAME Frank Mosher

COMPANY WEST

DATE 12/17/14

TIME 1510

Relinquished by: _____

Received by: [Signature]

Relinquished by: _____

Received by: _____

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

FORMS\COC\COC.DOC

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

December 23, 2014

Jon Sondergaard, Project Manager
Associated Earth Sciences, Inc.
911 5th Avenue, Suite 100
Kirkland, WA 98033

Dear Mr. Sondergaard:

Included are the results from the testing of material submitted on December 19, 2014 from the North Edge KV030772B, F&BI 412339 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Frank Mocker
AE11223R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 19, 2014 by Friedman & Bruya, Inc. from the Associated Earth Sciences North Edge KV030772B, F&BI 412339 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Associated Earth Sciences</u> |
|----------------------|----------------------------------|
| 412339 -01 | PC-34 16-20' |
| 412339 -02 | PC-34 20-24' |
| 412339 -03 | PC-14 16-20' |
| 412339 -04 | PC-14 20-24' |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14
 Date Received: 12/19/14
 Project: North Edge KV030772B, F&BI 412339
 Date Extracted: 12/19/14
 Date Analyzed: 12/19/14

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING METHODS 8021B AND NWTPH-Gx**
 Results Reported on a Dry Weight Basis
 Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-150) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|-----------------------------------------------------|
| PC-34 16-20' 412339-01 | <0.02 | <0.02 | 0.026 | <0.06 | 13 | 97 |
| PC-34 20-24' 412339-02 | <0.02 | <0.02 | <0.02 | <0.06 | 3.0 | 97 |
| PC-14 16-20' 412339-03 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 97 |
| PC-14 20-24' 412339-04 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 101 |
| Method Blank 04-2514 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 98 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14
Date Received: 12/19/14
Project: North Edge KV030772B, F&BI 412339
Date Extracted: 12/19/14
Date Analyzed: 12/19/14

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 56-165) |
|-----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| PC-34 16-20' 412339-01 | <50 | <250 | 90 |
| PC-34 20-24' 412339-02 | <50 | <250 | 105 |
| PC-14 16-20' 412339-03 | <50 | <250 | 93 |
| PC-14 20-24' 412339-04 | <50 | <250 | 98 |
| Method Blank 04-2544 MB | <50 | <250 | 99 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14

Date Received: 12/19/14

Project: North Edge KV030772B, F&BI 412339

**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: 412318-02 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|-----------------|---------------------------|---------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | 4 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|--------------|-----------------|----------------|----------------------------|------------------------|
| Benzene | mg/kg (ppm) | 0.5 | 96 | 66-121 |
| Toluene | mg/kg (ppm) | 0.5 | 98 | 72-128 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 102 | 69-132 |
| Xylenes | mg/kg (ppm) | 1.5 | 101 | 69-131 |
| Gasoline | mg/kg (ppm) | 20 | 100 | 61-153 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/23/14

Date Received: 12/19/14

Project: North Edge KV030772B, F&BI 412339

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

Laboratory Code: 412339-03 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 112 | 111 | 63-146 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 102 | 79-144 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

Sample Chain of Custody ME 12-19-14
 Page # 1 of 1
 Turnaround Time
 Standard (2 Weeks)
 Rush 24 hours
 Rush charges authorized by F.S. Moller
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. North Edge / KU030720B
 PO# _____
 REMARKS _____

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | Notes |
|--------------|--------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-----|-------|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | |
| PC-34 16-20' | 61A-E | 12/19/14 | 0739 | 50-1 | 1 cap 1 jar | X | X | X | X | | | |
| PC-34 20-24' | 62 | ✓ | 0747 | ✓ | ✓ | X | X | X | X | | | |
| PC-14 16-20' | 63 | ✓ | 0803 | ✓ | ✓ | X | X | X | X | | | |
| PC-14 20-24' | 64 | ✓ | 0817 | ✓ | ✓ | X | X | X | X | | | |
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| Signature | Print Name | Company | Date | Time |
|------------------------|----------------------|-------------|-----------------|-------------|
| <u>[Signature]</u> | <u>Frank Moore</u> | <u>NECF</u> | <u>12/19/14</u> | <u>0858</u> |
| <u>[Signature]</u> | <u>James Br.../e</u> | <u>NECF</u> | <u>12/19</u> | <u>0855</u> |
| Relinquished by: _____ | | | | |
| Received by: _____ | | | | |
| Relinquished by: _____ | | | | |
| Received by: _____ | | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

January 6, 2015

Jon Sondergaard, Project Manager
Associated Earth Sciences, Inc.
911 5th Avenue, Suite 100
Kirkland, WA 98033

Dear Mr. Sondergaard:

Included are the results from the testing of material submitted on December 31, 2014 from the North Edge KV030772B, F&BI 412450 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Frank Mocker
AE10106R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 31, 2014 by Friedman & Bruya, Inc. from the Associated Earth Sciences North Edge KV030772B, F&BI 412450 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Associated Earth Sciences</u> |
|----------------------|----------------------------------|
| 412450 -01 | Com1 |
| 412450 -02 | SW-7@25' |
| 412450 -03 | Com2 |
| 412450 -04 | PC-51 11-15 |
| 412450 -05 | PC-51 15-19 |
| 412450 -06 | PC-58 11-15 |
| 412450 -07 | PC-58 15-19 |
| 412450 -08 | PC-56 15-19 |
| 412450 -09 | PC-55 19-23 |
| 412450 -10 | PC-55 23-27 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/06/15
 Date Received: 12/31/14
 Project: North Edge KV030772B, F&BI 412450
 Date Extracted: 12/31/14
 Date Analyzed: 12/31/14

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-132) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|-------------------------------------------------|
| Com1 412450-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 104 |
| SW-7@25' 412450-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 98 |
| Com2 412450-03 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 106 |
| PC-51 11-15 412450-04 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 105 |
| PC-51 15-19 412450-05 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 109 |
| PC-58 11-15 412450-06 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 112 |
| PC-58 15-19 412450-07 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 107 |
| PC-56 15-19 412450-08 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 107 |
| PC-55 19-23 412450-09 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 107 |
| PC-55 23-27 412450-10 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 105 |
| Method Blank 04-2584 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 108 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/06/15
Date Received: 12/31/14
Project: North Edge KV030772B, F&BI 412450
Date Extracted: 12/31/14
Date Analyzed: 12/31/14 and 01/02/15

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

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

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 56-165) |
|-----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| Com1 412450-01 | <50 | <250 | 107 |
| SW-7@25' 412450-02 | <50 | <250 | 101 |
| Com2 412450-03 | <50 | <250 | 97 |
| PC-51 11-15 412450-04 | <50 | <250 | 111 |
| PC-51 15-19 412450-05 | <50 | <250 | 112 |
| PC-58 11-15 412450-06 | <50 | <250 | 113 |
| PC-58 15-19 412450-07 | <50 | <250 | 108 |
| PC-56 15-19 412450-08 | <50 | <250 | 106 |
| PC-55 19-23 412450-09 | <50 | <250 | 107 |
| PC-55 23-27 412450-10 | <50 | <250 | 112 |
| Method Blank 04-2585 MB | <50 | <250 | 106 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/06/15

Date Received: 12/31/14

Project: North Edge KV030772B, F&BI 412450

**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: 412450-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|-----------------|---------------------------|------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery | |
|--------------|-----------------|-------------|------------------|---------------------|
| | | | LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 90 | 66-121 |
| Toluene | mg/kg (ppm) | 0.5 | 91 | 72-128 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 92 | 69-132 |
| Xylenes | mg/kg (ppm) | 1.5 | 92 | 69-131 |
| Gasoline | mg/kg (ppm) | 20 | 95 | 61-153 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/06/15

Date Received: 12/31/14

Project: North Edge KV030772B, F&BI 412450

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

Laboratory Code: 412450-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 90 | 90 | 63-146 | 0 |

Laboratory Code: Laboratory Control Sample

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

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.

412450

SAMPLE CHAIN OF CUSTODY ME 12-31-14 A02 / 152

Send Report To Franke Moeler
 Company AREST
 Address 911 Fifth Ave Ste 100
 City, State, ZIP Kirkland, WA 98033
 Phone # 425 266 5114 Fax # _____

SAMPLERS (signature) [Signature] Page # 1 of 1
 PROJECT NAME/NO. North Edge / 15030772B PO# _____
 REMARKS _____

TURNAROUND TIME _____
 Standard (2 Weeks)
 RUSH 24 hour See Below
 Rush charges authorized by R.S. Moeler
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | Notes |
|-------------|--------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-----|------------------|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | |
| Com 1 | 01A-E | 12/29/14 | 0910 | Soil | 1 unit | X | X | X | | | | Standard 2 weeks |
| SW-7@25' | 02 | 12/30/14 | 0730 | Soil | 1 unit | X | X | X | | | | |
| COM 2 | 03 | } | 0740 | } | } | X | X | X | | | | Rush 24 hour |
| PC-51 11-15 | 04 | | 1204 | | | X | X | X | | | | |
| PC-51 15-19 | 05 | } | 1214 | } | } | X | X | X | | | | |
| PC-58 11-15 | 06 | | 1232 | | | X | X | X | | | | |
| PC-58 15-19 | 07 | } | 1241 | } | } | X | X | X | | | | |
| PC-56 15-19 | 08 | | 1613 | | | X | X | X | | | | |
| PC-55 19-23 | 09 | } | 1621 | } | } | X | X | X | | | | |
| PC-55 23-27 | 10 | | 1630 | | | X | X | X | | | | |

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

Relinquished by: [Signature] SIGNATURE
 Received by: [Signature] PRINT NAME
 Relinquished by: [Signature] COMPANY
 Received by: [Signature] DATE
 Relinquished by: [Signature] TIME
 Received by: [Signature] SAMPLES RECEIVED AT

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

January 6, 2015

Jon Sondergaard, Project Manager
Associated Earth Sciences, Inc.
911 5th Avenue, Suite 100
Kirkland, WA 98033

Dear Mr. Sondergaard:

Included are the results from the testing of material submitted on December 31, 2014 from the North Edge KV030772B, F&BI 412456 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Frank Mocker
AE10106R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 31, 2014 by Friedman & Bruya, Inc. from the Associated Earth Sciences North Edge KV030772B, F&BI 412456 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Associated Earth Sciences</u> |
|----------------------|----------------------------------|
| 412456 -01 | SW-13 @ 19' |
| 412456 -02 | SW-14 @ 19' |
| 412456 -03 | SW-15 @ 19' |
| 412456 -04 | Com 3 |
| 412456 -05 | SW-8 @ 25' |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/06/15
 Date Received: 12/31/14
 Project: North Edge KV030772B, F&BI 412456
 Date Extracted: 12/31/14
 Date Analyzed: 01/01/15

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-132) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|-----------------------------------------------------|
| SW-13 @ 19' 412456-01 | 0.071 | 0.077 | <0.02 | 0.12 | <2 | 106 |
| SW-14 @ 19' 412456-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 109 |
| SW-15 @ 19' 412456-03 | <0.02 | <0.02 | <0.02 | <0.06 | 2.4 | 112 |
| Com 3 412456-04 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 105 |
| SW-8 @ 25' 412456-05 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 109 |
| Method Blank 04-2584 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 108 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/06/15
Date Received: 12/31/14
Project: North Edge KV030772B, F&BI 412456
Date Extracted: 01/02/15
Date Analyzed: 01/02/15

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168) |
|-----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| SW-13 @ 19' 412456-01 | <50 | <250 | 101 |
| SW-14 @ 19' 412456-02 | <50 | <250 | 99 |
| SW-15 @ 19' 412456-03 | <50 | <250 | 92 |
| Com 3 412456-04 | <50 | <250 | 98 |
| SW-8 @ 25' 412456-05 | <50 | <250 | 100 |
| Method Blank 05-008 MB | <50 | <250 | 98 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/06/15

Date Received: 12/31/14

Project: North Edge KV030772B, F&BI 412456

**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: 412450-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|-----------------|---------------------------|------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery | |
|--------------|-----------------|-------------|------------------|---------------------|
| | | | LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 90 | 66-121 |
| Toluene | mg/kg (ppm) | 0.5 | 91 | 72-128 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 92 | 69-132 |
| Xylenes | mg/kg (ppm) | 1.5 | 92 | 69-131 |
| Gasoline | mg/kg (ppm) | 20 | 95 | 61-153 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/06/15

Date Received: 12/31/14

Project: North Edge KV030772B, F&BI 412456

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

Laboratory Code: 412456-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|-----------------|-------------|------------------------|---------------------|----------------------|---------------------|----------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 93 | 95 | 73-135 | 2 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|-----------------|-------------|----------------------|---------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 95 | 74-139 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

412456

SAMPLE CHAIN OF CUSTODY

ME 12-14-31-14 A02/v81

Page # 1 of 1

Send Report To Frank Moser
 Company WEST
 Address 911 Fifth Ave Ste 100
 City, State, ZIP Kirkland WA 98033
 Phone # 425 766 5112 Fax # _____

SAMPLERS (signature) [Signature] PO# _____
 PROJECT NAME/NO. NorthEdge/KV0307725
 REMARKS _____

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH 24 hour 3 Business
 Rush charges authorized by _____
 SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | Notes | |
|-----------|--------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-------|--------------------|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | | HFS |
| SW-13@19' | 01A-E | 12/31/14 | 0730 | Soil | 1 cut 1 jar | X | X | X | | | | } RUSA est hour |
| SW-14@19' | 02 | | 0737 | | | X | X | X | | | | |
| SW-15@19' | 03 | | 0750 | | | X | X | X | | | | |
| COM 3 | 04 | | 0840 | | | X | X | X | | | | |
| SW-8@25' | 05 | | 1050 | | | X | X | X | | | | |

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

FORMS/COC/DOC

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|------------------------|-------------|---------|----------|------|
| <u>[Signature]</u> | Frank Moser | WEST | 12/31/14 | 1345 |
| <u>[Signature]</u> | D & W | WEST | 11 | 1345 |
| Relinquished by: _____ | | | | |
| Received by: _____ | | | | |
| Relinquished by: _____ | | | | |
| Received by: _____ | | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

January 8, 2015

Jon Sondergaard, Project Manager
Associated Earth Sciences, Inc.
911 5th Avenue, Suite 100
Kirkland, WA 98033

Dear Mr. Sondergaard:

Included are the results from the testing of material submitted on January 2, 2015 from the North Edge KV030772B, F&BI 501009 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Frank Mocker
AE10108R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 2, 2015 by Friedman & Bruya, Inc. from the Associated Earth Sciences North Edge KV030772B, F&BI 501009 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Associated Earth Sciences</u> |
|----------------------|----------------------------------|
| 501009 -01 | Com 4 |
| 501009 -02 | SW-9 @ 25 |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/08/15
Date Received: 01/02/15
Project: North Edge KV030772B, F&BI 501009
Date Extracted: 01/06/15
Date Analyzed: 01/06/15

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-132) |
|-----------------------------------|----------------|----------------|--------------------------|--------------------------|---------------------------|-----------------------------------------------------|
| Com 4 501009-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 95 |
| SW-9 @ 25 501009-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 96 |
| Method Blank 05-0014 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 100 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/08/15
Date Received: 01/02/15
Project: North Edge KV030772B, F&BI 501009
Date Extracted: 01/05/15
Date Analyzed: 01/05/15

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144) |
|-----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| Com 4 501009-01 | <50 | <250 | 92 |
| SW-9 @ 25 501009-02 | <50 | <250 | 105 |
| Method Blank 05-011 MB | <50 | <250 | 105 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/08/15

Date Received: 01/02/15

Project: North Edge KV030772B, F&BI 501009

**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: 501008-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|-----------------|---------------------------|------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery | |
|--------------|-----------------|-------------|------------------|---------------------|
| | | | LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 86 | 66-121 |
| Toluene | mg/kg (ppm) | 0.5 | 89 | 72-128 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 91 | 69-132 |
| Xylenes | mg/kg (ppm) | 1.5 | 90 | 69-131 |
| Gasoline | mg/kg (ppm) | 20 | 90 | 61-153 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/08/15

Date Received: 01/02/15

Project: North Edge KV030772B, F&BI 501009

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

Laboratory Code: 501004-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|--------------------|----------------|------------------------------|---------------------------|----------------------------|------------------------|-------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 108 | 98 | 64-133 | 10 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|--------------------|----------------|----------------------------|------------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 108 | 58-147 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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

501009

SAMPLE CHAIN OF CUSTODY

ME 01-02-15

VSI

Page # 1 of 801

Send Report To Frank Mocker
 Company AGSI
 Address 911 Fifth Ave Ste 100
 City, State, ZIP Kirkland, WA 98033
 Phone # 4257665112 Fax # _____

SAMPLERS (signature) [Signature] PO# _____
 PROJECT NAME/NO. Northridge/KVU30772B
 REMARKS _____

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

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

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | Notes | |
|-----------|--------|--------------|--------------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-------|-----|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | | HFS |
| Com 4 | 01A | 1/2/15 | 1346 | Soil | 1 lot | X | X | | | | | |
| SW-9025 | 02A | " | 1402 | " | " | X | X | | | | | |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |

Samples received at 4 °C

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

| RELINQUISHED BY | SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|------------------|--------------------|--------------|---------|--------|------|
| Relinquished by: | <u>[Signature]</u> | Frank Mocker | AGSI | 1/2/15 | 1605 |
| Received by: | <u>[Signature]</u> | VIAH | FBI | 1/2/15 | 1605 |
| Relinquished by: | | | | | |
| Received by: | | | | | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

January 8, 2015

Jon Sondergaard, Project Manager
Associated Earth Sciences, Inc.
911 5th Avenue, Suite 100
Kirkland, WA 98033

Dear Mr. Sondergaard:

Included are the results from the testing of material submitted on January 5, 2015 from the North Edge KV030772B, F&BI 501017 project. There are 11 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Frank Mocker
AE10108R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on January 5, 2015 by Friedman & Bruya, Inc. from the Associated Earth Sciences North Edge KV030772B, F&BI 501017 project. Samples were logged in under the laboratory ID's listed below.

| <u>Laboratory ID</u> | <u>Associated Earth Sciences</u> |
|----------------------|----------------------------------|
| 501017 -01 | Com 14 |
| 501017 -02 | Com 22 @ 41 |
| 501017 -03 | Com 24 @ 47 |
| 501017 -04 | Com 15 |
| 501017 -05 | Com 23 @ 44' |

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/08/15
 Date Received: 01/05/15
 Project: North Edge KV030772B, F&BI 501017
 Date Extracted: 01/05/15
 Date Analyzed: 01/05/15

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Total Xylenes</u> | <u>Gasoline Range</u> | <u>Surrogate (% Recovery)</u> (Limit 50-132) |
|-----------------------------------|----------------|----------------|----------------------|----------------------|-----------------------|-------------------------------------------------|
| Com 14 501017-01 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 101 |
| Com 22 @ 41 501017-02 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 94 |
| Com 24 @ 47 501017-03 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 98 |
| Com 15 501017-04 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 97 |
| Com 23 @ 44' 501017-05 | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 101 |
| Method Blank 05-0014 MB | <0.02 | <0.02 | <0.02 | <0.06 | <2 | 100 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/08/15
Date Received: 01/05/15
Project: North Edge KV030772B, F&BI 501017
Date Extracted: 01/05/15
Date Analyzed: 01/05/15

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

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

| <u>Sample ID</u> Laboratory ID | <u>Diesel Range</u> (C ₁₀ -C ₂₅) | <u>Motor Oil Range</u> (C ₂₅ -C ₃₆) | <u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168) |
|-----------------------------------|------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| Com 14 501017-01 | <50 | <250 | 100 |
| Com 22 @ 41 501017-02 | <50 | <250 | 108 |
| Com 24 @ 47 501017-03 | <50 | <250 | 95 |
| Com 15 501017-04 | <50 | <250 | 93 |
| Com 23 @ 44' 501017-05 | <50 | <250 | 98 |
| Method Blank 05-024 MB | <50 | <250 | 108 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

| | | | |
|-------------------|------------------------|-------------|-----------------------------------|
| Client Sample ID: | Com 14 | Client: | Associated Earth Sciences |
| Date Received: | 01/05/15 | Project: | North Edge KV030772B, F&BI 501017 |
| Date Extracted: | 01/05/15 | Lab ID: | 501017-01 1/5 |
| Date Analyzed: | 01/05/15 | Data File: | 010515.D |
| Matrix: | Soil | Instrument: | GCMS6 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|------------------------|-------------|--------------|--------------|
| Anthracene-d10 | 118 | 50 | 150 |
| Benzo(a)anthracene-d12 | 127 | 35 | 159 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

| | | | |
|-------------------|------------------------|-------------|-----------------------------------|
| Client Sample ID: | Com 15 | Client: | Associated Earth Sciences |
| Date Received: | 01/05/15 | Project: | North Edge KV030772B, F&BI 501017 |
| Date Extracted: | 01/05/15 | Lab ID: | 501017-04 1/5 |
| Date Analyzed: | 01/05/15 | Data File: | 010516.D |
| Matrix: | Soil | Instrument: | GCMS6 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|------------------------|-------------|--------------|--------------|
| Anthracene-d10 | 123 | 50 | 150 |
| Benzo(a)anthracene-d12 | 123 | 35 | 159 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

| | | | |
|-------------------|------------------------|-------------|-----------------------------------|
| Client Sample ID: | Com 23 @ 44' | Client: | Associated Earth Sciences |
| Date Received: | 01/05/15 | Project: | North Edge KV030772B, F&BI 501017 |
| Date Extracted: | 01/05/15 | Lab ID: | 501017-05 1/5 |
| Date Analyzed: | 01/05/15 | Data File: | 010517.D |
| Matrix: | Soil | Instrument: | GCMS6 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|------------------------|-------------|--------------|--------------|
| Anthracene-d10 | 120 | 50 | 150 |
| Benzo(a)anthracene-d12 | 118 | 35 | 159 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

| | | | |
|-------------------|------------------------|-------------|-----------------------------------|
| Client Sample ID: | Method Blank | Client: | Associated Earth Sciences |
| Date Received: | Not Applicable | Project: | North Edge KV030772B, F&BI 501017 |
| Date Extracted: | 01/05/15 | Lab ID: | 05-010 mb 1/5 |
| Date Analyzed: | 01/05/15 | Data File: | 010505.D |
| Matrix: | Soil | Instrument: | GCMS6 |
| Units: | mg/kg (ppm) Dry Weight | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|------------------------|-------------|-----------------|-----------------|
| Anthracene-d10 | 104 | 50 | 150 |
| Benzo(a)anthracene-d12 | 106 | 35 | 159 |

| Compounds: | Concentration mg/kg (ppm) |
|------------------------|------------------------------|
| Naphthalene | <0.01 |
| Acenaphthylene | <0.01 |
| Acenaphthene | <0.01 |
| Fluorene | <0.01 |
| Phenanthrene | <0.01 |
| Anthracene | <0.01 |
| Fluoranthene | <0.01 |
| Pyrene | <0.01 |
| Benz(a)anthracene | <0.01 |
| Chrysene | <0.01 |
| Benzo(a)pyrene | <0.01 |
| Benzo(b)fluoranthene | <0.01 |
| Benzo(k)fluoranthene | <0.01 |
| Indeno(1,2,3-cd)pyrene | <0.01 |
| Dibenz(a,h)anthracene | <0.01 |
| Benzo(g,h,i)perylene | <0.01 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/08/15

Date Received: 01/05/15

Project: North Edge KV030772B, F&BI 501017

**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: 501008-01 (Duplicate)

| Analyte | Reporting Units | Sample Result (Wet Wt) | Duplicate Result (Wet Wt) | RPD (Limit 20) |
|--------------|-----------------|---------------------------|------------------------------|-------------------|
| Benzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Toluene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Ethylbenzene | mg/kg (ppm) | <0.02 | <0.02 | nm |
| Xylenes | mg/kg (ppm) | <0.06 | <0.06 | nm |
| Gasoline | mg/kg (ppm) | <2 | <2 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent | |
|--------------|-----------------|-------------|--------------|---------------------|
| | | | Recovery LCS | Acceptance Criteria |
| Benzene | mg/kg (ppm) | 0.5 | 86 | 66-121 |
| Toluene | mg/kg (ppm) | 0.5 | 89 | 72-128 |
| Ethylbenzene | mg/kg (ppm) | 0.5 | 91 | 69-132 |
| Xylenes | mg/kg (ppm) | 1.5 | 90 | 69-131 |
| Gasoline | mg/kg (ppm) | 20 | 90 | 61-153 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/08/15

Date Received: 01/05/15

Project: North Edge KV030772B, F&BI 501017

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

Laboratory Code: 501017-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet Wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|-----------------|-----------------|-------------|------------------------|---------------------|----------------------|---------------------|----------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | <50 | 99 | 100 | 73-135 | 1 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|-----------------|-----------------|-------------|----------------------|---------------------|
| Diesel Extended | mg/kg (ppm) | 5,000 | 107 | 74-139 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/08/15

Date Received: 01/05/15

Project: North Edge KV030772B, F&BI 501017

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL
SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM**

Laboratory Code: 501017-05 1/5 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Acceptance Criteria |
|------------------------|--------------------|----------------|------------------------------|---------------------------|------------------------|
| Naphthalene | mg/kg (ppm) | 0.17 | <0.01 | 89 | 44-129 |
| Acenaphthylene | mg/kg (ppm) | 0.17 | <0.01 | 89 | 52-121 |
| Acenaphthene | mg/kg (ppm) | 0.17 | <0.01 | 90 | 51-123 |
| Fluorene | mg/kg (ppm) | 0.17 | <0.01 | 92 | 37-137 |
| Phenanthrene | mg/kg (ppm) | 0.17 | <0.01 | 90 | 45-124 |
| Anthracene | mg/kg (ppm) | 0.17 | <0.01 | 90 | 32-124 |
| Fluoranthene | mg/kg (ppm) | 0.17 | <0.01 | 96 | 50-125 |
| Pyrene | mg/kg (ppm) | 0.17 | <0.01 | 90 | 41-135 |
| Benz(a)anthracene | mg/kg (ppm) | 0.17 | <0.01 | 89 | 23-144 |
| Chrysene | mg/kg (ppm) | 0.17 | <0.01 | 93 | 45-122 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.17 | <0.01 | 97 | 31-144 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.17 | <0.01 | 99 | 45-130 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.17 | <0.01 | 88 | 39-128 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.17 | <0.01 | 76 | 28-146 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.17 | <0.01 | 75 | 46-129 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.17 | <0.01 | 79 | 37-133 |

Laboratory Code: Laboratory Control Sample 1/5

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|------------------------|--------------------|----------------|----------------------------|-----------------------------|------------------------|-------------------|
| Naphthalene | mg/kg (ppm) | 0.17 | 91 | 93 | 58-121 | 2 |
| Acenaphthylene | mg/kg (ppm) | 0.17 | 88 | 92 | 54-121 | 4 |
| Acenaphthene | mg/kg (ppm) | 0.17 | 93 | 96 | 54-123 | 3 |
| Fluorene | mg/kg (ppm) | 0.17 | 89 | 95 | 56-127 | 7 |
| Phenanthrene | mg/kg (ppm) | 0.17 | 93 | 95 | 55-122 | 2 |
| Anthracene | mg/kg (ppm) | 0.17 | 89 | 92 | 50-120 | 3 |
| Fluoranthene | mg/kg (ppm) | 0.17 | 89 | 95 | 54-129 | 7 |
| Pyrene | mg/kg (ppm) | 0.17 | 101 | 101 | 53-127 | 0 |
| Benz(a)anthracene | mg/kg (ppm) | 0.17 | 86 | 87 | 51-115 | 1 |
| Chrysene | mg/kg (ppm) | 0.17 | 95 | 97 | 55-129 | 2 |
| Benzo(b)fluoranthene | mg/kg (ppm) | 0.17 | 96 | 95 | 56-123 | 1 |
| Benzo(k)fluoranthene | mg/kg (ppm) | 0.17 | 95 | 99 | 54-131 | 4 |
| Benzo(a)pyrene | mg/kg (ppm) | 0.17 | 84 | 84 | 51-118 | 0 |
| Indeno(1,2,3-cd)pyrene | mg/kg (ppm) | 0.17 | 80 | 79 | 49-148 | 1 |
| Dibenz(a,h)anthracene | mg/kg (ppm) | 0.17 | 80 | 74 | 50-141 | 8 |
| Benzo(g,h,i)perylene | mg/kg (ppm) | 0.17 | 87 | 85 | 52-131 | 2 |

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.