



April 16, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Dinner #6-34

Project Number - 425777561

Attached are your analytical results for Noble - Dinner #6-34 received by Origins Laboratory, Inc. April 08, 2021. This project is associated with Origins project number Y104150-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: 425777561

Project: Noble - Dinner #6-34

## CROSS REFERENCE REPORT

| Sample ID       | Laboratory ID | Matrix | Date Sampled        | Date Received    |
|-----------------|---------------|--------|---------------------|------------------|
| TB-SS-01@4'     | Y104150-01    | Soil   | April 5, 2021 11:55 | 04/08/2021 15:05 |
| TB-SS-06@0-0.5' | Y104150-02    | Soil   | April 5, 2021 12:22 | 04/08/2021 15:05 |

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

[www.originslaboratory.com](http://www.originslaboratory.com)

page / of

# ORIGINS

Client: Laugh Environmental Institute  
Address: 8000 W. 41th Ave  
Westridge, CO 80033  
Telephone Number: (303) 433-0179  
Email Address: mu302@earthlink.net

Project Manager: Martin Eklund III  
Project Name: DINNER #16-34  
Project Number: —  
Samples Collected By: MM/HB

Fax: 303.265.9645

| Sample ID Description | Date Sampled    | Time Sampled  | Preservative    |             |     |                 |       |             | Matrix        | Analysis   | Sample Instructions   |   |
|-----------------------|-----------------|---------------|-----------------|-------------|-----|-----------------|-------|-------------|---------------|--|---|---|
|                       |                 |               | # of Containers | Unpreserved | HCl | $\text{HNO}_3$  | Other | Groundwater |               |  |   | Air Summa #   |
| TB-SS-C @ 4'          | 4/5/21          | 1155          | 3               | X           |     |                 |       | X           |               |  | 6.0 L EXTRACTED<br>2.0 L FOR<br>GC/MS<br>ANALYSIS<br>1.0 L FOR<br>ICP-MS<br>ANALYSIS<br>1.0 L FOR<br>METALS<br>ANALYSIS | 1<br>GC/MS, H <sub>2</sub> O<br>SATURATED INSIDE PACK |
| TB-SS-C @ 0.5'        | 4/5/21          | 2221          | 3               | X           |     |                 |       | X           |               |  |   | 3   |
|                       |                 |               |                 |             |     |                 |       |             |               |  |   | 4   |
|                       |                 |               |                 |             |     |                 |       |             |               |  |   | 5   |
|                       |                 |               |                 |             |     |                 |       |             |               |  |   | 6   |
|                       |                 |               |                 |             |     |                 |       |             |               |  |   | 7   |
|                       |                 |               |                 |             |     |                 |       |             |               |  |   | 8   |
|                       |                 |               |                 |             |     |                 |       |             |               |  |   | 9   |
|                       |                 |               |                 |             |     |                 |       |             |               |  |   | 10  |
| Requisitioned by:     | Date:<br>4/9/21 | Time:<br>1505 | Received By:    |             |     | Date:<br>4/9/21 |       |             | Time:<br>1505 | Turnaround Time:<br>Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/><br>48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> |   |   |
| Requisitioned by:     | Date:           | Time:         | Received By:    |             |     | Date:           |       |             | Time:         | Standard <input checked="" type="checkbox"/>   |   |   |

Date Results Needed

42

Temp Received.

H: 42577750 |  
AGE: 247027

OK 2.71 to 2.72

Origins Laboratory, Inc.

Men

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

Origins Laboratory F-012207-01-R1  
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y104150 Client: Eagle  
Client Project ID: dinner

Checklist Completed by: SGKDK Shipped Via: HD  
Date/time completed: 04/08/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
Cooler Number/Temperature: 1 / 4.2 °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
Thermometer ID: T003

| Requirement Description  | Yes                                 | No | N/A                                 | Comments (if any) |
|--|-------------------------------------|----|-------------------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |    |                                     |                   |
| Is there ice present (document if blue ice is used)  | <input checked="" type="checkbox"/> |    |                                     |                   |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)  |                                     |    | <input checked="" type="checkbox"/> |                   |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)   |                                     |    | <input checked="" type="checkbox"/> |                   |
| Were all samples received intact <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |    |                                     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |    |                                     |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?   |                                     |    | <input checked="" type="checkbox"/> |                   |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |    |                                     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |    |                                     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |    |                                     |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |    |                                     |                   |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.   |                                     |    | <input checked="" type="checkbox"/> |                   |
| Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with Na <sub>2</sub> CO <sub>3</sub> -NaOH, ZnAc+NaOH) |                                     |    | <input checked="" type="checkbox"/> |                   |
| Additional Comments (if any):  |                                     |    |                                     |                   |

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: jm (Project Manager)

4-9-21  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jordan A. Merrill*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

TB-SS-01@4'  
4/5/2021 11:55:00AM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

AAL, Inc.  
Y104150-01 (Soil)

## Boron (Sorbitol)

|       |     |  |      |   |        |            |            |  |
|-------|-----|--|------|---|--------|------------|------------|--|
| Boron | 0.1 |  | mg/L | 1 | [none] | 04/12/2021 | 04/14/2021 |  |
|-------|-----|--|------|---|--------|------------|------------|--|

## DRO/ORO by EPA 8015D

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B1D0909 | 04/09/2021 | 04/09/2021 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 63.9 % | 50-150 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

## GBTEX+TMBs

|                             |    |         |       |   |         |            |            |   |
|-----------------------------|----|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND | 0.00200 | mg/kg | 1 | B1D0908 | 04/09/2021 | 04/12/2021 | U |
| 1,3,5-Trimethylbenzene      | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND | 0.200   | "     | " | "       | "          | "          | U |
| Xylenes, total              | ND | 0.00200 | "     | " | "       | "          | "          | U |

|                                  |       |        |  |  |   |   |   |  |
|----------------------------------|-------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | 70-130 |  |  | " | " | " |  |
|----------------------------------|-------|--------|--|--|---|---|---|--|

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

**TB-SS-01@4'**  
**4/5/2021 11:55:00AM**

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory, Inc.**  
**Y104150-01 (Soil)**

**GBTEX+TMBs**

|                                 |        |  |        |  |  |             |            |            |  |
|---------------------------------|--------|--|--------|--|--|-------------|------------|------------|--|
| Surrogate: Toluene-d8           | 95.1 % |  | 70-130 |  |  | B1D09<br>08 | 04/09/2021 | 04/12/2021 |  |
| Surrogate: 4-Bromofluorobenzene | 95.4 % |  | 70-130 |  |  | "           | "          | "          |  |

**Metals (Saturated Paste Prep)**

|           |      |  |  |      |   |        |            |            |  |
|-----------|------|--|--|------|---|--------|------------|------------|--|
| Calcium   | 2.07 |  |  | me/L | 1 | [none] | 04/12/2021 | 04/14/2021 |  |
| Magnesium | 0.74 |  |  | "    | " | "      | "          | "          |  |
| Sodium    | 0.34 |  |  | "    | " | "      | "          | "          |  |

**PAH by EPA 8270D SIM**

|                       |          |          |         |       |   |         |            |            |   |
|-----------------------|----------|----------|---------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene   | ND       | 0.00048  | 0.00067 | mg/Kg | 1 | L547059 | 04/14/2021 | 04/14/2021 |   |
| 2-Methylnaphthalene   | ND       | 0.000542 | 0.00067 | "     | " | "       | "          | "          |   |
| Acenaphthene          | ND       | 0.000431 | 0.00067 | "     | " | "       | "          | "          |   |
| Anthracene            | ND       | 0.000426 | 0.00067 | "     | " | "       | "          | "          |   |
| Benzo(a)anthracene    | ND       | 0.000441 | 0.00067 | "     | " | "       | "          | "          |   |
| Benzo(a)pyrene        | 0.000217 | 0.000133 | 0.00067 | "     | " | "       | "          | "          | J |
| Benzo(b)fluoranthene  | ND       | 0.000138 | 0.00067 | "     | " | "       | "          | "          |   |
| Benzo(k)fluoranthene  | ND       | 0.000486 | 0.00067 | "     | " | "       | "          | "          |   |
| Chrysene              | ND       | 0.000256 | 0.00067 | "     | " | "       | "          | "          |   |
| Dibenz(a,h)anthracene | ND       | 0.000279 | 0.00067 | "     | " | "       | "          | "          |   |
| Fluoranthene          | ND       | 0.000529 | 0.00067 | "     | " | "       | "          | "          |   |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

TB-SS-01@4'  
4/5/2021 11:55:00AM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

**Waypoint Analytical, Inc.**  
**Y104150-01 (Soil)**

**PAH by EPA 8270D SIM**

|                        |    |          |         |       |   |         |            |            |
|------------------------|----|----------|---------|-------|---|---------|------------|------------|
| Fluorene               | ND | 0.000501 | 0.00067 | mg/Kg | 1 | L547059 | 04/14/2021 | 04/14/2021 |
| Indeno(1,2,3-cd)pyrene | ND | 0.000344 | 0.00067 | "     | " | "       | "          | "          |
| Naphthalene            | ND | 0.000467 | 0.00067 | "     | " | "       | "          | "          |
| Pyrene                 | ND | 0.000387 | 0.00067 | "     | " | "       | "          | "          |

|                             |        |        |   |   |   |
|-----------------------------|--------|--------|---|---|---|
| Surrogate: 2-Fluorobiphenyl | 46.8 % | 33-115 | " | " | " |
| Surrogate: 4-Terphenyl-d14  | 62.2 % | 33-122 | " | " | " |
| Surrogate: Nitrobenzene-d5  | 42 %   | 29-110 | " | " | " |

**pH in Soil by EPA 9045D**

|    |      |          |   |         |            |            |
|----|------|----------|---|---------|------------|------------|
| pH | 7.06 | pH Units | 1 | B1D1214 | 04/12/2021 | 04/12/2021 |
|----|------|----------|---|---------|------------|------------|

**SAR by 20B Saturated Paste**

|     |      |   |        |            |            |
|-----|------|---|--------|------------|------------|
| SAR | 0.29 | 1 | [none] | 04/12/2021 | 04/14/2021 |
|-----|------|---|--------|------------|------------|

**Specific Conductance by Modified 9050A**

|                           |       |         |          |   |         |            |            |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.327 | 0.00500 | mmhos/cm | 1 | B1D1215 | 04/12/2021 | 04/12/2021 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

**TB-SS-06@0-0.5'**  
**4/5/2021 12:22:00PM**

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

**AAL, Inc.**  
**Y104150-02 (Soil)**

## Boron (Sorbitol)

|       |     |  |      |   |        |            |            |  |
|-------|-----|--|------|---|--------|------------|------------|--|
| Boron | 0.3 |  | mg/L | 1 | [none] | 04/12/2021 | 04/14/2021 |  |
|-------|-----|--|------|---|--------|------------|------------|--|

## DRO/ORO by EPA 8015D

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B1D0909 | 04/09/2021 | 04/09/2021 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 65.3 % | 50-150 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

## GBTEX+TMBs

|                             |         |         |       |   |         |            |            |   |
|-----------------------------|---------|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND      | 0.00200 | mg/kg | 1 | B1D0908 | 04/09/2021 | 04/12/2021 | U |
| 1,3,5-Trimethylbenzene      | ND      | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND      | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND      | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND      | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND      | 0.200   | "     | " | "       | "          | "          | U |
| Xylenes, total              | 0.00560 | 0.00200 | "     | " | "       | "          | "          |   |

|                                  |        |        |  |  |   |   |   |  |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 103 %  | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 95.6 % | 70-130 |  |  | " | " | " |  |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

**TB-SS-06@0-0.5'**  
**4/5/2021 12:22:00PM**

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory, Inc.**  
**Y104150-02 (Soil)**

## GBTEX+TMBs

|                                 |        |        |             |            |            |
|---------------------------------|--------|--------|-------------|------------|------------|
| Surrogate: 4-Bromofluorobenzene | 96.0 % | 70-130 | B1D09<br>08 | 04/09/2021 | 04/12/2021 |
|---------------------------------|--------|--------|-------------|------------|------------|

## Metals (Saturated Paste Prep)

|           |      |      |   |        |            |            |
|-----------|------|------|---|--------|------------|------------|
| Calcium   | 1.26 | me/L | 1 | [none] | 04/12/2021 | 04/14/2021 |
| Magnesium | 0.48 | "    | " | "      | "          | "          |
| Sodium    | 0.31 | "    | " | "      | "          | "          |

## PAH by EPA 8270D SIM

|                        |          |          |         |       |   |         |            |            |
|------------------------|----------|----------|---------|-------|---|---------|------------|------------|
| 1-Methylnaphthalene    | ND       | 0.00048  | 0.00067 | mg/Kg | 1 | L547059 | 04/14/2021 | 04/14/2021 |
| 2-Methylnaphthalene    | ND       | 0.000542 | 0.00067 | "     | " | "       | "          | "          |
| Acenaphthene           | ND       | 0.000431 | 0.00067 | "     | " | "       | "          | "          |
| Anthracene             | ND       | 0.000426 | 0.00067 | "     | " | "       | "          | "          |
| Benzo(a)anthracene     | ND       | 0.000441 | 0.00067 | "     | " | "       | "          | "          |
| Benzo(a)pyrene         | 0.000601 | 0.000133 | 0.00067 | "     | " | "       | "          | " J        |
| Benzo(b)fluoranthene   | 0.000745 | 0.000138 | 0.00067 | "     | " | "       | "          | "          |
| Benzo(k)fluoranthene   | ND       | 0.000486 | 0.00067 | "     | " | "       | "          | "          |
| Chrysene               | 0.000613 | 0.000256 | 0.00067 | "     | " | "       | "          | " J        |
| Dibenz(a,h)anthracene  | ND       | 0.000279 | 0.00067 | "     | " | "       | "          | "          |
| Fluoranthene           | 0.00083  | 0.000529 | 0.00067 | "     | " | "       | "          | "          |
| Fluorene               | ND       | 0.000501 | 0.00067 | "     | " | "       | "          | "          |
| Indeno(1,2,3-cd)pyrene | 0.00047  | 0.000344 | 0.00067 | "     | " | "       | "          | " J        |

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

**TB-SS-06@0-0.5'**  
**4/5/2021 12:22:00PM**

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

**Waypoint Analytical, Inc.**  
**Y104150-02 (Soil)**

## PAH by EPA 8270D SIM

|             |                 |                 |         |       |   |         |            |            |  |
|-------------|-----------------|-----------------|---------|-------|---|---------|------------|------------|--|
| Naphthalene | ND              | 0.000467        | 0.00067 | mg/Kg | 1 | L547059 | 04/14/2021 | 04/14/2021 |  |
| Pyrene      | <b>0.000917</b> | <b>0.000387</b> | 0.00067 | "     | " | "       | "          | "          |  |

|                             |        |  |        |  |  |   |   |   |  |
|-----------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: 2-Fluorobiphenyl | 55.7 % |  | 33-115 |  |  | " | " | " |  |
| Surrogate: 4-Terphenyl-d14  | 69.6 % |  | 33-122 |  |  | " | " | " |  |
| Surrogate: Nitrobenzene-d5  | 47.6 % |  | 29-110 |  |  | " | " | " |  |

## pH in Soil by EPA 9045D

|    |             |  |  |          |   |         |            |            |  |
|----|-------------|--|--|----------|---|---------|------------|------------|--|
| pH | <b>4.34</b> |  |  | pH Units | 1 | B1D1214 | 04/12/2021 | 04/12/2021 |  |
|----|-------------|--|--|----------|---|---------|------------|------------|--|

## SAR by 20B Saturated Paste

|     |             |  |  |  |   |        |            |            |  |
|-----|-------------|--|--|--|---|--------|------------|------------|--|
| SAR | <b>0.33</b> |  |  |  | 1 | [none] | 04/12/2021 | 04/14/2021 |  |
|-----|-------------|--|--|--|---|--------|------------|------------|--|

## Specific Conductance by Modified 9050A

|                           |              |  |         |          |   |         |            |            |  |
|---------------------------|--------------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | <b>0.282</b> |  | 0.00500 | mmhos/cm | 1 | B1D1215 | 04/12/2021 | 04/12/2021 |  |
|---------------------------|--------------|--|---------|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                                | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B1D0908 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B1D0908-BLK1)</b>            |        |                 |       |             | Prepared: 04/09/2021 Analyzed: 04/09/2021 |      |             |     |           |       |
| 1,2,4-Trimethylbenzene                 | ND     | 0.00200         | mg/kg |             |   |      |             |     |           | U     |
| Naphthalene                            | ND     | 0.0100          | "     |             |   |      |             |     |           | U     |
| 1,3,5-Trimethylbenzene                 | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 0.12   |                 | "     | 0.125       |   | 99.4 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 0.13   |                 | "     | 0.125       |   | 100  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.12   |                 | "     | 0.125       |   | 97.7 | 70-130      |     |           |       |

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B1D0908 - EPA 5030 (soil)**

**LCS (B1D0908-BS1)**

Prepared: 04/09/2021 Analyzed: 04/09/2021

|                                  |        |         |       |        |  |      |        |  |  |  |
|----------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| 1,2,4-Trimethylbenzene           | 0.0572 | 0.00200 | mg/kg | 0.0500 |  | 114  | 70-130 |  |  |  |
| Naphthalene                      | 0.0559 | 0.0100  | "     | 0.0500 |  | 112  | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.0570 | 0.00200 | "     | 0.0500 |  | 114  | 70-130 |  |  |  |
| Benzene                          | 0.0539 | 0.00200 | "     | 0.0500 |  | 108  | 70-130 |  |  |  |
| Ethylbenzene                     | 0.0554 | 0.00200 | "     | 0.0500 |  | 111  | 70-130 |  |  |  |
| m,p-Xylene                       | 0.110  | 0.00400 | "     | 0.100  |  | 110  | 70-130 |  |  |  |
| o-Xylene                         | 0.0567 | 0.00200 | "     | 0.0500 |  | 113  | 70-130 |  |  |  |
| Toluene                          | 0.0531 | 0.00200 | "     | 0.0500 |  | 106  | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12   |         | "     | 0.125  |  | 97.4 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.12   |         | "     | 0.125  |  | 98.4 | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.13   |         | "     | 0.125  |  | 100  | 70-130 |  |  |  |

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                                | Result | Reporting Limit           | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B1D0908 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |     |           |       |
| <b>Matrix Spike (B1D0908-MS1)</b>      |        | <b>Source: Y104141-01</b> |       |             | Prepared: 04/09/2021 Analyzed: 04/09/2021 |      |             |     |           |       |
| 1,2,4-Trimethylbenzene                 | 0.0579 | 0.00200                   | mg/kg | 0.0500      | ND  | 116  | 70-130      |     |           |       |
| Naphthalene                            | 0.0607 | 0.0100                    | "     | 0.0500      | ND  | 121  | 70-130      |     |           |       |
| 1,3,5-Trimethylbenzene                 | 0.0565 | 0.00200                   | "     | 0.0500      | ND  | 113  | 70-130      |     |           |       |
| Benzene                                | 0.0534 | 0.00200                   | "     | 0.0500      | ND  | 107  | 70-130      |     |           |       |
| Ethylbenzene                           | 0.0551 | 0.00200                   | "     | 0.0500      | ND  | 110  | 70-130      |     |           |       |
| m,p-Xylene                             | 0.110  | 0.00400                   | "     | 0.100       | ND  | 110  | 70-130      |     |           |       |
| o-Xylene                               | 0.0545 | 0.00200                   | "     | 0.0500      | ND  | 109  | 70-130      |     |           |       |
| Toluene                                | 0.0528 | 0.00200                   | "     | 0.0500      | ND  | 106  | 70-130      |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 0.13   |                           | "     | 0.125       |   | 101  | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 0.12   |                           | "     | 0.125       |   | 99.0 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.13   |                           | "     | 0.125       |   | 101  | 70-130      |     |           |       |

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                                | Result | Reporting Limit           | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B1D0908 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |      |           |       |
| <b>Matrix Spike Dup (B1D0908-MSD1)</b> |        | <b>Source: Y104141-01</b> |       |             | Prepared: 04/09/2021 Analyzed: 04/09/2021 |      |             |      |           |       |
| 1,2,4-Trimethylbenzene                 | 0.0545 | 0.00200                   | mg/kg | 0.0500      | ND  | 109  | 70-130      | 5.94 | 20        |       |
| Naphthalene                            | 0.0578 | 0.0100                    | "     | 0.0500      | ND  | 116  | 70-130      | 4.86 | 20        |       |
| 1,3,5-Trimethylbenzene                 | 0.0537 | 0.00200                   | "     | 0.0500      | ND  | 107  | 70-130      | 4.97 | 20        |       |
| Benzene                                | 0.0515 | 0.00200                   | "     | 0.0500      | ND  | 103  | 70-130      | 3.59 | 20        |       |
| Ethylbenzene                           | 0.0569 | 0.00200                   | "     | 0.0500      | ND  | 114  | 70-130      | 3.32 | 20        |       |
| m,p-Xylene                             | 0.115  | 0.00400                   | "     | 0.100       | ND  | 115  | 70-130      | 3.99 | 20        |       |
| o-Xylene                               | 0.0582 | 0.00200                   | "     | 0.0500      | ND  | 116  | 70-130      | 6.56 | 20        |       |
| Toluene                                | 0.0509 | 0.00200                   | "     | 0.0500      | ND  | 102  | 70-130      | 3.66 | 20        |       |
| Surrogate: 1,2-Dichloroethane-d4       | 0.12   |                           | "     | 0.125       |   | 98.4 | 70-130      |      |           |       |
| Surrogate: Toluene-d8                  | 0.12   |                           | "     | 0.125       |   | 98.7 | 70-130      |      |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.13   |                           | "     | 0.125       |   | 104  | 70-130      |      |           |       |

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

| Analyte                           | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B1D0909 - EPA 3550B         |        |                 |       |             |   |      |             |     |           |       |
| Blank (B1D0909-BLK1)              |        |                 |       |             | Prepared: 04/09/2021 Analyzed: 04/09/2021 |      |             |     |           |       |
| Diesel (C10-C28)                  | ND     | 25.0            | mg/kg |             |   |      |             |     |           | U     |
| Residual Range Organics (C28-C40) | ND     | 100             | "     |             |   |      |             |     |           | U     |
| Surrogate: o-Terphenyl            | 18     |                 | "     | 25.0        |   | 73.8 | 50-150      |     |           |       |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory, Inc.

| Analyte                           | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B1D0909 - EPA 3550B         |        |                 |       |             |   |      |             |     |           |       |
| LCS (B1D0909-BS1)                 |        |                 |       |             | Prepared: 04/09/2021 Analyzed: 04/09/2021 |      |             |     |           |       |
| Diesel (C10-C28)                  | 928    | 50.0            | mg/kg | 1000        |   | 92.8 | 70-130      |     |           |       |
| Residual Range Organics (C28-C40) | 885    | 200             | "     | 1000        |   | 88.5 | 70-130      |     |           |       |
| Surrogate: o-Terphenyl            | 39     |                 | "     | 50.0        |   | 78.1 | 50-150      |     |           |       |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B1D0909 - EPA 3550B**

| Matrix Spike (B1D0909-MS1)        |     | Source: Y104141-01 |       |      | Prepared: 04/09/2021 Analyzed: 04/09/2021 |      |        |  |  |  |
|-----------------------------------|-----|--------------------|-------|------|---|------|--------|--|--|--|
| Diesel (C10-C28)                  | 930 | 50.0               | mg/kg | 1000 | ND  | 93.0 | 70-130 |  |  |  |
| Residual Range Organics (C28-C40) | 879 | 200                | "     | 1000 | ND  | 87.9 | 70-130 |  |  |  |
| Surrogate: o-Terphenyl            | 37  |                    | "     | 50.0 |   | 74.7 | 50-150 |  |  |  |

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B1D0909 - EPA 3550B**

| Matrix Spike Dup (B1D0909-MSD1)   |     | Source: Y104141-01 |       |      | Prepared: 04/09/2021 Analyzed: 04/09/2021 |      |        |      |    |  |
|-----------------------------------|-----|--------------------|-------|------|---|------|--------|------|----|--|
| Diesel (C10-C28)                  | 867 | 50.0               | mg/kg | 1000 | ND  | 86.7 | 70-130 | 6.96 | 35 |  |
| Residual Range Organics (C28-C40) | 812 | 200                | "     | 1000 | ND  | 81.2 | 70-130 | 7.83 | 35 |  |
| Surrogate: o-Terphenyl            | 34  |                    | "     | 50.0 |   | 68.4 | 50-150 |      |    |  |

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

## Saturated Paste - Quality Control

### Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

#### Batch B1D1214 - NO PREP

##### Duplicate (B1D1214-DUP1)

Source: Y104141-01

Prepared: 04/12/2021 Analyzed: 04/12/2021

|    |      |  |          |  |      |  |  |      |    |  |
|----|------|--|----------|--|------|--|--|------|----|--|
| pH | 7.23 |  | pH Units |  | 7.15 |  |  | 1.11 | 25 |  |
|----|------|--|----------|--|------|--|--|------|----|--|

#### Batch B1D1215 - NO PREP

##### Blank (B1D1215-BLK1)

Prepared: 04/12/2021 Analyzed: 04/12/2021

|                           |         |         |          |  |  |  |  |  |  |  |
|---------------------------|---------|---------|----------|--|--|--|--|--|--|--|
| Specific Conductance (EC) | 0.00210 | 0.00500 | mmhos/cm |  |  |  |  |  |  |  |
|---------------------------|---------|---------|----------|--|--|--|--|--|--|--|

##### Duplicate (B1D1215-DUP1)

Source: Y104141-01

Prepared: 04/12/2021 Analyzed: 04/12/2021

|                           |       |         |          |  |       |  |  |      |    |  |
|---------------------------|-------|---------|----------|--|-------|--|--|------|----|--|
| Specific Conductance (EC) | 0.243 | 0.00500 | mmhos/cm |  | 0.237 |  |  | 2.42 | 25 |  |
|---------------------------|-------|---------|----------|--|-------|--|--|------|----|--|

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

**PAH by EPA 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch L547059 - 3550B**

| MSD (L 90686-MSD-L547059)   |        | Source: Y104150-01 |       |       | Prepared: 04/14/2021 Analyzed: 04/14/2021 |      |        |     |    |  |
|-----------------------------|--------|--------------------|-------|-------|---|------|--------|-----|----|--|
| Chrysene                    | 0.119  | 0.000256           | mg/Kg | 0.165 | <0.000256                                 | 72.1 | 30-130 | 0.8 | 30 |  |
| 1-Methylnaphthalene         | 0.1    | 0.00048            | "     | 0.165 | <0.000480                                 | 60.6 | 30-130 | 2.1 | 30 |  |
| 2-Methylnaphthalene         | 0.101  | 0.000542           | "     | 0.165 | <0.000542                                 | 61.2 | 30-130 | 3.6 | 30 |  |
| Acenaphthene                | 0.115  | 0.000431           | "     | 0.165 | <0.000431                                 | 69.6 | 30-130 | 2.6 | 30 |  |
| Anthracene                  | 0.119  | 0.000426           | "     | 0.165 | <0.000426                                 | 72.1 | 30-130 | 0.8 | 30 |  |
| Benzo(a)anthracene          | 0.109  | 0.000441           | "     | 0.165 | <0.000441                                 | 66   | 30-130 | 1.8 | 30 |  |
| Pyrene                      | 0.118  | 0.000387           | "     | 0.165 | <0.000387                                 | 71.5 | 30-130 | 0.8 | 30 |  |
| Naphthalene                 | 0.0939 | 0.000467           | "     | 0.165 | <0.000467                                 | 56.9 | 30-130 | 2.3 | 30 |  |
| Indeno(1,2,3-cd)pyrene      | 0.0918 | 0.000344           | "     | 0.165 | <0.000344                                 | 55.6 | 30-130 | 7.6 | 30 |  |
| Fluorene                    | 0.117  | 0.000501           | "     | 0.165 | <0.000501                                 | 70.9 | 30-130 | 2.5 | 30 |  |
| Fluoranthene                | 0.117  | 0.000529           | "     | 0.165 | <0.000529                                 | 70.9 | 30-130 | 2.5 | 30 |  |
| Dibenz(a,h)anthracene       | 0.0997 | 0.000279           | "     | 0.165 | <0.000279                                 | 60.4 | 30-130 | 7   | 30 |  |
| Benzo(b)fluoranthene        | 0.0868 | 0.000138           | "     | 0.165 | <0.000138                                 | 52.6 | 30-130 | 6.2 | 30 |  |
| Benzo(k)fluoranthene        | 0.106  | 0.000486           | "     | 0.165 | <0.000486                                 | 64.2 | 30-130 | 0   | 30 |  |
| Benzo(a)pyrene              | 0.119  | 0.000133           | "     | 0.165 | 0.000217                                  | 72.1 | 30-130 | 0   | 30 |  |
| Surrogate: 2-Fluorobiphenyl | 58.1   |                    | "     | 0.33  | 156                                       | 58.1 | 33-115 |     |    |  |
| Surrogate: 4-Terphenyl-d14  | 60.9   |                    | "     | 0.33  | 207                                       | 60.9 | 33-122 |     |    |  |
| Surrogate: Nitrobenzene-d5  | 49.6   |                    | "     | 0.33  | 140                                       | 49.6 | 29-110 |     |    |  |

| MS (L 90686-MS-L547059) |        | Source: Y104150-01 |       |       | Prepared: 04/14/2021 Analyzed: 04/14/2021 |      |        |  |  |  |
|-------------------------|--------|--------------------|-------|-------|---|------|--------|--|--|--|
| Benzo(a)pyrene          | 0.119  | 0.000133           | mg/Kg | 0.163 | 0.000217                                  | 73   | 30-130 |  |  |  |
| Chrysene                | 0.118  | 0.000256           | "     | 0.163 | <0.000256                                 | 72.3 | 30-130 |  |  |  |
| Pyrene                  | 0.119  | 0.000387           | "     | 0.163 | <0.000387                                 | 73   | 30-130 |  |  |  |
| Naphthalene             | 0.0917 | 0.000467           | "     | 0.163 | <0.000467                                 | 56.2 | 30-130 |  |  |  |
| Indeno(1,2,3-cd)pyrene  | 0.0991 | 0.000344           | "     | 0.163 | <0.000344                                 | 60.7 | 30-130 |  |  |  |
| Fluorene                | 0.114  | 0.000501           | "     | 0.163 | <0.000501                                 | 69.9 | 30-130 |  |  |  |
| Fluoranthene            | 0.12   | 0.000529           | "     | 0.163 | <0.000529                                 | 73.6 | 30-130 |  |  |  |

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

**PAH by EPA 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch L547059 - 3550B**

| MS (L 90686-MS-L547059)     |        | Source: Y104150-01 |       |       | Prepared: 04/14/2021 Analyzed: 04/14/2021 |      |        |  |  |  |
|-----------------------------|--------|--------------------|-------|-------|---|------|--------|--|--|--|
| Dibenz(a,h)anthracene       | 0.107  | 0.000279           | mg/Kg | 0.163 | <0.000279                                 | 65.6 | 30-130 |  |  |  |
| Benzo(b)fluoranthene        | 0.0924 | 0.000138           | "     | 0.163 | <0.000138                                 | 56.6 | 30-130 |  |  |  |
| Benzo(a)anthracene          | 0.111  | 0.000441           | "     | 0.163 | <0.000441                                 | 68   | 30-130 |  |  |  |
| Anthracene                  | 0.118  | 0.000426           | "     | 0.163 | <0.000426                                 | 72.3 | 30-130 |  |  |  |
| Acenaphthene                | 0.112  | 0.000431           | "     | 0.163 | <0.000431                                 | 68.7 | 30-130 |  |  |  |
| 2-Methylnaphthalene         | 0.0974 | 0.000542           | "     | 0.163 | <0.000542                                 | 59.7 | 30-130 |  |  |  |
| Benzo(k)fluoranthene        | 0.106  | 0.000486           | "     | 0.163 | <0.000486                                 | 65   | 30-130 |  |  |  |
| 1-Methylnaphthalene         | 0.0979 | 0.00048            | "     | 0.163 | <0.000480                                 | 60   | 30-130 |  |  |  |
| Surrogate: Nitrobenzene-d5  | 49.2   |                    | "     | 0.327 | 140                                       | 49.2 | 29-110 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 57.7   |                    | "     | 0.327 | 156                                       | 57.7 | 33-115 |  |  |  |
| Surrogate: 4-Terphenyl-d14  | 62.6   |                    | "     | 0.327 | 207                                       | 62.6 | 33-122 |  |  |  |

**LCS (LCS-L547059)**

Prepared: 04/14/2021 Analyzed: 04/14/2021

|                        |        |          |       |       |  |      |        |  |  |  |
|------------------------|--------|----------|-------|-------|--|------|--------|--|--|--|
| Dibenz(a,h)anthracene  | 0.0972 | 0.000279 | mg/Kg | 0.167 |  | 58.2 | 30-130 |  |  |  |
| Fluoranthene           | 0.125  | 0.000529 | "     | 0.167 |  | 74.8 | 30-130 |  |  |  |
| Pyrene                 | 0.126  | 0.000387 | "     | 0.167 |  | 75.4 | 30-130 |  |  |  |
| Fluorene               | 0.117  | 0.000501 | "     | 0.167 |  | 70   | 30-130 |  |  |  |
| Indeno(1,2,3-cd)pyrene | 0.0959 | 0.000344 | "     | 0.167 |  | 57.4 | 30-130 |  |  |  |
| Chrysene               | 0.121  | 0.000256 | "     | 0.167 |  | 72.4 | 30-130 |  |  |  |
| Naphthalene            | 0.093  | 0.000467 | "     | 0.167 |  | 55.6 | 30-130 |  |  |  |
| Benzo(b)fluoranthene   | 0.103  | 0.000138 | "     | 0.167 |  | 61.6 | 30-130 |  |  |  |
| Benzo(a)pyrene         | 0.119  | 0.000133 | "     | 0.167 |  | 71.2 | 30-130 |  |  |  |
| Benzo(a)anthracene     | 0.116  | 0.000441 | "     | 0.167 |  | 69.4 | 30-130 |  |  |  |
| Acenaphthene           | 0.114  | 0.000431 | "     | 0.167 |  | 68.2 | 30-130 |  |  |  |
| 2-Methylnaphthalene    | 0.0992 | 0.000542 | "     | 0.167 |  | 59.4 | 30-130 |  |  |  |
| 1-Methylnaphthalene    | 0.0989 | 0.00048  | "     | 0.167 |  | 59.2 | 30-130 |  |  |  |
| Anthracene             | 0.124  | 0.000426 | "     | 0.167 |  | 74.2 | 30-130 |  |  |  |

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: 425777561  
Project: Noble - Dinner #6-34

**PAH by EPA 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch L547059 - 3550B**

**LCS (LCS-L547059)**

Prepared: 04/14/2021 Analyzed: 04/14/2021

|                             |       |          |       |       |  |      |        |  |  |  |
|-----------------------------|-------|----------|-------|-------|--|------|--------|--|--|--|
| Benzo(k)fluoranthene        | 0.123 | 0.000486 | mg/Kg | 0.167 |  | 73.6 | 30-130 |  |  |  |
| Surrogate: Nitrobenzene-d5  | 53.1  |          | "     | 0.333 |  | 53.1 | 29-110 |  |  |  |
| Surrogate: 4-Terphenyl-d14  | 67.8  |          | "     | 0.333 |  | 67.8 | 33-122 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 59.4  |          | "     | 0.333 |  | 59.4 | 33-115 |  |  |  |

**LRB (LRB-L547059)**

Prepared: 04/14/2021 Analyzed: 04/14/2021

|                             |      |         |       |       |  |      |        |  |  |  |
|-----------------------------|------|---------|-------|-------|--|------|--------|--|--|--|
| Chrysene                    | ND   | 0.00067 | mg/Kg |       |  |      | -      |  |  |  |
| Dibenz(a,h)anthracene       | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Fluoranthene                | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Fluorene                    | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Benzo(k)fluoranthene        | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Naphthalene                 | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Indeno(1,2,3-cd)pyrene      | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Benzo(b)fluoranthene        | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Benzo(a)pyrene              | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Benzo(a)anthracene          | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Acenaphthene                | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| 2-Methylnaphthalene         | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| 1-Methylnaphthalene         | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Pyrene                      | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Anthracene                  | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Surrogate: Nitrobenzene-d5  | 53.7 |         | "     | 0.333 |  | 53.7 | 29-110 |  |  |  |
| Surrogate: 4-Terphenyl-d14  | 63.9 |         | "     | 0.333 |  | 63.9 | 33-122 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 60.9 |         | "     | 0.333 |  | 60.9 | 33-115 |  |  |  |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: 425777561

Project: Noble - Dinner #6-34

### Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



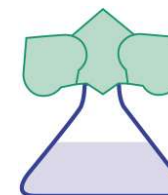
*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# American Agricultural Laboratory, Inc.

700 West D Street / PO Box 370 / McCook, Nebraska 69001

Office: 308-345-3670 / FAX: 308-345-7880

www.AmAgLab.com



95029

ORIGINS LABORATORY INC

1725 ELK PLACE

DENVER CO 80211

NAME : ORIGINS

DATE RECEIVED: 04/12/2021

DATE REPORTED: 04/14/2021

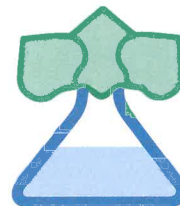
| SOIL TEST RESULTS                    |                          |                          |                     |  |                                     |                      |   |                |                    |                          |  |               |             |           |                 |   |    |
|--------------------------------------|--------------------------|--------------------------|---------------------|--|-------------------------------------|----------------------|---|----------------|--------------------|--------------------------|--|---------------|-------------|-----------|-----------------|---|----|
| LAB<br>NUMBER                        | FIELD<br>IDENTIFICATION  | SAMPLE<br>IDENTIFICATION | Depth<br>Inches     | pH                                     |                                     | EL                   | SOLUBLE<br>SALTS<br>mod. SP<br>mmhos/cm | OM<br>LOI<br>% | NITRATE-N<br>(FIA) |                          | PHOSPHORUS   |               |             |           |                 |   |    |
|                                      |                          |                          |                     | 1 : 1<br>Soil                          | Buffer<br>Woodruff                  |                      |   |                | ppm                | lbs/A                    | P1<br>ppm  | Bicarb<br>ppm | P2<br>ppm   | M2<br>ppm | M3<br>ppm       |   |    |
| 3331147                              | Y104150                  | 01                       | 0-8                 |  |                                     |                      |   |                |                    |                          |  |               |             |           |                 |   |    |
| 3331148                              | Y104150                  | 02                       | 0-8                 |  |                                     |                      |   |                |                    |                          |  |               |             |           |                 |   |    |
|                                      |                          |                          |                     |  |                                     |                      |   |                |                    |                          |  |               |             |           |                 |   |    |
| LAB<br>NUMBER                        | SULFATE-S<br>Ca-P<br>ppm | NH4OAc (Exchangeable)    |                     |  |                                     | DTPA                 |   |                |                    | BORON<br>Sorbitol<br>ppm | EST. CATION<br>EXCHANGE<br>CAPACITY (CEC)<br>me/100g | % SATURATION  |             |           |                 |   |    |
|                                      |                          | K<br>ppm                 | Ca<br>ppm           | Mg<br>ppm                              | Na<br>ppm                           | Zn<br>ppm            | Fe<br>ppm                               | Mn<br>ppm      | Cu<br>ppm          |                          |  | BASE          | H           | Ca        | Mg              | K   | Na |
| 3331147                              |                          |                          |                     |  |                                     |                      |   |                |                    | 0.1                      |  |               |             |           |                 |   |    |
| 3331148                              |                          |                          |                     |  |                                     |                      |   |                |                    | 0.3                      |  |               |             |           |                 |   |    |
|                                      |                          |                          |                     |  |                                     |                      |   |                |                    |                          |  |               |             |           |                 |   |    |
| LAB<br>NUMBER                        | SOLUBLE (SAT. EXT.)      |                          |                     | SODIUM<br>ADSORPTION<br>RATIO<br>(SAR) | EXCH.<br>SODIUM<br>PERCENT<br>(ESP) | GYPSUM<br>REQ<br>T/A | PARTICLE SIZE ANALYSIS                  |                |                    |                          | CHLORIDE   |               | EXCH. NH4-N |           | ALUMINUM<br>ppm | TOTAL<br>N<br>%                               |    |
|                                      | Ca<br>me/L               | Mg<br>me/L               | Na<br>me/L          |  |                                     |                      | SAND<br>%                               | SILT<br>%      | CLAY<br>%          | SOIL<br>TEXTURE          | ppm  | lbs/A         | ppm         | lbs/A     |                 |   |    |
| 3331147                              | 2.07                     | 0.74                     | 0.34                | 0.29                                   | 1                                   | 0                    |   |                |                    |                          |  |               |             |           |                 |   |    |
| 3331148                              | 1.26                     | 0.48                     | 0.31                | 0.33                                   | 1                                   | 0                    |   |                |                    |                          |  |               |             |           |                 |   |    |
|                                      |                          |                          |                     |  |                                     |                      |   |                |                    |                          |  |               |             |           |                 |   |    |
| SUGGESTED FERTILIZER RECOMMENDATIONS |                          |                          |                     |  |                                     |                      |   |                |                    |                          |  |               |             |           |                 | LIME REC<br>60% ECCE<br>T/A                   |    |
| LAB<br>NUMBER                        | FIELD<br>IDENTIFICATION  | SAMPLE<br>IDENTIFICATION | CROP TO BE<br>GROWN | YIELD<br>GOAL                          | N                                   | P2O5                 | K2O                                     | S              | Zn                 | MgO                      | Fe   | Mn            | Cu          | B         | Cl              |   |    |
| 3331147                              | Y104150                  | 01                       |                     |  |                                     |                      |   |                |                    |                          |  |               |             |           |                 |   |    |
| 3331148                              | Y104150                  | 02                       |                     |  |                                     |                      |   |                |                    |                          |  |               |             |           |                 |   |    |
|                                      |                          |                          |                     |  |                                     |                      |   |                |                    |                          |  |               |             |           |                 |   |    |
| Approved By: Bob Olsen               |                          |                          |                     |  |                                     |                      |   |                |                    |                          |  |               |             |           |                 | Analysis By: American Agricultural Lab        |    |
|                                      |                          |                          |                     |  |                                     |                      |   |                |                    |                          |  |               |             |           |                 | Recommendations By: American Agricultural Lab |    |

# American Agricultural Laboratory, Inc.

700 West D St. / P.O. Box 370 / McCook, Nebraska 69001

Office: 308-345-3670 / FAX: 308-345-7880 / [www.AmAgLab.com](http://www.AmAgLab.com)

*"Analysis You Can Grow With"®*



ORIGINS LABORATORY INC  
1725 ELK PLACE  
DENVER, CO 80211

DATE RECEIVED: 4/12/2021  
DATE REPORTED: 4/14/2021  
ACCOUNT NO: 95029  
GROWER: ORIGINS

## SOIL BORON REPORT

| Lab #   | Field ID | Sample ID | B, mg/L |
|---------|----------|-----------|---------|
| 3331147 | Y104150  | 1         | 0.1     |
| 3331148 | Y104150  | 2         | 0.3     |

*Pat Olson*

### Method Used:

Provin, T., and H. Zhang. 2014. DTPA and DTPA-Sorbitol Extraction of Micronutrients.  
Soil Test Methods From the Southeastern United States 2014



**Your Lab's letterhead here...**

Address

City, St. Zip

Phone/Fax

## SUBCONTRACT ORDER

### Sending Laboratory:

Origins Laboratory, Inc.  
1725 West Elk Place  
Denver, CO 80211  
Phone: 303.433.1322  
Fax: 303.265.9645

Project Manager: Noelle Doyle Mathis

### Subcontracted Laboratory:

American Agricultural Laboratory, Inc  
210 East 1st Street  
McCook, NE 69001  
Phone: (308) 345-3670  
Fax: (308) 345-7880

### Work Order: Y104150

| Analysis | Due | Expires | Comments |
|----------|-----|---------|----------|
|----------|-----|---------|----------|

**Sample ID: Y104150-01** Soil Sampled: 04/05/2021 11:55

|                            |            |                  |
|----------------------------|------------|------------------|
| SAR (Saturated Paste Prep) | 04/16/2021 | 04/06/2021 11:55 |
| Boron (DTPA Sorbitol)      | 04/16/2021 | 04/06/2021 11:55 |

Containers Supplied:

**Sample ID: Y104150-02** Soil Sampled: 04/05/2021 12:22

|                            |            |                  |
|----------------------------|------------|------------------|
| SAR (Saturated Paste Prep) | 04/16/2021 | 04/06/2021 12:22 |
| Boron (DTPA Sorbitol)      | 04/16/2021 | 04/06/2021 12:22 |

Containers Supplied:

APR 12 2021

Released By

Date

4/9/21

Received By

Date

4/12/21