# Wellhead Closure Checklist

## COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

| Additional attachments (optional): | | Pit Closure | | Tank Battery Closure | | Flowline Closure | | Partially Buried Vault Closure |
|---|---|---|---|---|---|---|---|---|

| | | |
|---|---|---|
| *Site Name & COGCC Facility Number:* Lilli Unit #6-9 | *Date:* 3-1-22 | *Remediation Project #:* 21456 |
| *Associated Wells:* 05-123-13275 | *Age of Site:* years | *Number of Photos Attached:* 1 |
| *Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)* 40.678970 / -103.870160 | | *Estimated Facility Size (acres):* |

*General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)*
Good Condition

| | |
|---|---|
| *USCS Soil Type:* CL | *Estimated Depth to Groundwater:* 20'+ |

*Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)*
None observed

*Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)*
None observed

## Wellhead(s)

| | | | | | | |
|---|---|---|---|---|---|---|
| *Well API* | 05-123-13275 | | | | | |
| *Age* | years | | | | | |
| *Condition of surface around wellhead* | Good-Per Crew | | | | | |
| *PID Readings* | N/A-Excavated | upon arrival | | | | |
| *Condition of subsurface (staining present* | Good-no staining/no odor | | | | | |
| *PID Readings* | 0.1 | 2.8 | 0.8 | 0.6 | 3.4 | |
| *Sample taken? Location/Sample ID#* | WH-SS-01@4' | WH-SS-02@4' | WH-SS-03@4' | WH-SS-04@4' | WH-FS-01@5' | |
| *Photo Number(s)* | See photolog | | | | | |

*Other observations regarding wellheads:*

## Summary

*Was impacted soil identified?* (No) Yes - less than 10 cubic yards Yes - more than 10 cubic yards

| | |
|---|---|
| *Total number of samples field screened:* 5 | *Total number of samples collected:* 5 |
| *Highest PID Reading:* 3.4 | *Total number of samples submitted to lab for analysis:* 3.4 |

If more than 10 cubic yards of impacted soil were observed:

| | |
|---|---|
| *Vertical extent:* N/A | *Estimated spill volume:* |
| *Lateral extent:* | *Volume of soil removed:* |
| *Is additional investigation required?* | |

*Was groundwater encountered during the investigation?* (No) Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils

| | |
|---|---|
| *Measured depth to groundwater:* | *Was remedial groundwater removal conducted?* Yes No |
| *Date Groundwater was encountered:* | *Commencement date of removal:* |
| *Sheen on groundwater?* Yes No | *Volume of groundwater removed prior to sampling:* |
| *Free product observed?* Yes No | *Volume of groundwater removed post-sampling:* |
| *Total number of samples collected:* | *Total Volume of groundwater removed:* |
| *Total number of samples submitted to lab for analysis:* | |

# FIGURES

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Map**

Topographic Site Location Map
Lilli Unit #6-9
Closure Assessment
40.678970 / -103.870160
SE NW Sec. 9 T8N R58W 6PM
Weld County, Colorado
API # 05-123-13275
Remediation # 21456

Source: USGS 7.5 Minute Topo

## LEGEND

INITIAL ASSESSMENT BOUNDARIES

SS-02 — APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR

SS-02 — APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHLYBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHLYBENZENE (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM
mg/L = MILLIGRAMS PER LITER
mmhos/cm = MILLIMHOS PER CENTIMETER

NA – NOT ANALYZED

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS – GASOLINE RANGE ORGANICS
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS – DIESEL RANGE ORGANICS
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS – RESIDUAL RANGE ORGANICS

NOTES:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP
LILLI UNIT #6-9
CLOSURE ASSESSMENT
40.678970 / -103.870160
SE¼ NW¼ SEC.9 T8N R58W 6PM
WELD COUNTY, COLORADO
API # 05-123-13275
REMEDIATION # 21456

DATE: 04/29/22
DRAWN BY: RTG
FIG. NO. 3

EAGLE ENVIRONMENTAL CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449

## LEGEND

INITIAL ASSESSMENT BOUNDARIES

SS-02 — APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR

SS-02 — APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

NOTE:
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

NOTE:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP
LILLI UNIT #6-9
CLOSURE ASSESSMENT
40.678970 / -103.870160
SE¼ NW¼ SEC.9 T8N R58W 6PM
WELD COUNTY, COLORADO
API # 05-123-13275
REMEDIATION # 21456

DATE: 04/29/22
DRAWN BY: RTG
FIG. NO. 4

EAGLE ENVIRONMENTAL CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449

# TABLES

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary**

**TABLE 1**
**PHOTOIONIZATION DETECTOR READING SUMMARY**
**LILLI UNIT #6-9**
**CLOSURE ASSESSMENT**
**40.678970 / -103.870160**
**SE1/4 NW1/4 SEC.9 T8N R58W 6PM**
**WELD COUNTY, COLORADO**
**API # 05-123-13275**
**REMEDIATION # 21456**

| **Sample Location** (Latitude/Longitude) | **Date** | **Approximate Depth** (feet) | **PID Reading** (ppm-v) | **Lab Submission** (Y/N) |
|---|---|---|---|---|
| WH-SS-01 @ 4' (40.678994 / -103.870114) | 03/01/22 | 4 | 0.1 | N |
| WH-SS-02 @ 4' (40.678983 / -103.870125) | 03/01/22 | 4 | 2.8 | N |
| WH-SS-03 @ 4' (40.678960 / -103.870145) | 03/01/22 | 4 | 0.8 | N |
| WH-SS-04 @ 4' (40.678964 / -103.870176) | 03/01/22 | 4 | 0.6 | N |
| WH-FS-01 @ 5' (40.678980 / -103.870146) | 03/01/22 | 5 | 3.4 | Y |
| Background-01 @ 2' (40.678929 / -103.870055) | 03/01/22 | 2 | 0.2 | Y |

(Y/N) = Yes or No
ppm-v = parts per million by volume
PID = photoionization detector

EAGLE ENVIRONMENTAL CONSULTING, INC.

**TABLE 2**
**SOIL ANALYTICAL RESULTS SUMMARY**
**LILLI UNIT #6-9**
**CLOSURE ASSESSMENT**
**40.678970 / -103.870160**
**SE1/4 NW1/4 SEC.9 T8N R58W 6PM**
**WELD COUNTY, COLORADO**
**API # 05-123-13275**
**REMEDIATION # 21456**

| Sample Location (Latitude/Longitude) | Date | Approximate Depth (feet) | PID Reading (ppm-v) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | TPH-GRO (mg/kg) | TPH-DRO (mg/kg) | TPH-RRO (mg/kg) | 1,2,4-TMB (mg/kg) | 1,3,5-TMB (mg/kg) | Boron (mg/L) | Specific Conductance (mmhos/cm) | pH (pH units) | SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***COGCC Table 915-1 Residential Screening Levels (mg/kg)*** | | | | **1.20** | **490** | **5.8** | **58** | **500** | | | **30** | **27** | **2** | **<4** | **6-8.3** | **<6** |
| ***COGCC Table 915-1 Protection of Groundwater Soil Screening Levels*** | | | | **0.0026** | **0.69** | **0.78** | **9.9** | **--** | | | **0.0081** | **0.0087** | **--** | **--** | **--** | **--** |
| WH-FS-01 @ 5' | 03/01/22 | 5 | 3.4 | <0.00200 | 0.0124 | <0.00200 | 0.00328 | <0.200 | <25.0 | <100 | <0.00200 | <0.00200 | 0.197 | 0.355 | **9.77** | 0.897 |
| (40.678980 / -103.870146) | | | | | | | | | | | | | | | | |
| Background-01 @ 2' | 03/01/22 | 2 | 0.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 7.79 | NA |
| (40.678929 / -103.870055) | | | | | | | | | | | | | | | | |

COGCC = Colorado Oil and Gas Conservation Commission
mg/kg = milligrams per kilogram
mmhos/cm = millimhos per centimeter
PID = Photoionization Detector
ppm-v = parts per million by volume
mg/L = milligrams per liter
SAR = Sodium Adsoption Ratio
NA = Not Analyzed
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics
TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics
1,2,4-TMB = 1,2,4-Trimethlybenzene
1,3,5-TMB = 1,3,5-Trimethlybenzene
MDL = Minimum Detection Limits
Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit.
Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits

EAGLE ENVIRONMENTAL CONSULTING, INC.

**TABLE 3**
**POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY**
**LILLI UNIT #6-9**
**CLOSURE ASSESSMENT**
**40.678970 / -103.870160**
**SE1/4 NW1/4 SEC.9 T8N R58W 6PM**
**WELD COUNTY, COLORADO**
**API # 05-123-13275**
**REMEDIATION # 21456**

| **Sample Location** (Latitude/Longitude) | **Date** | **Approximate Depth** (feet) | **PID Reading** (ppm-v) | **1-Methyl-naphthalene** (mg/kg) | **2-Methyl-naphthalene** (mg/kg) | **Acenaphthene** (mg/kg) | **Anthracene** (mg/kg) | **Benzo(a)-anthracene** (mg/kg) | **Benzo(a)-pyrene** (mg/kg) | **Benzo(b)-fluoranthene** (mg/kg) | **Benzo(k)-fluoranthene** (mg/kg) | **Chrysene** (mg/kg) | **Dibenzo(a,h)-anthracene** (mg/kg) | **Fluoranthene** (mg/kg) | **Fluorene** (mg/kg) | **Indeno(1,2,3-cd)-pyrene** (mg/kg) | **Naphthalene** (mg/kg) | **Pyrene** (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***COGCC Table 915-1 Residential Screening Levels*** | | | | **18** | **24** | **360** | **1,800** | **1.1** | **0.11** | **1.1** | **11** | **110** | **0.11** | **240** | **240** | **1.1** | **2** | **180** |
| ***COGCC Table 915-1 Protection of Groundwater Soil Screening Levels*** | | | | **0.006** | **0.019** | **0.55** | **5.8** | **0.011** | **0.24** | **0.3** | **2.9** | **9** | **0.096** | **8.9** | **0.54** | **0.98** | **0.0038** | **1.3** |
| WH-FS-01 @ 5' | 03/01/22 | 5 | 3.4 | 0.00321 | 0.00297 | <0.00067 | <0.00067 | <0.00067 | <0.00067 | <0.00067 | <0.00067 | 0.00102 | <0.00067 | <0.00067 | 0.000535 | <0.00067 | 0.00106 | <0.00067 |
| (40.678980 / -103.870146) | | | | | | | | | | | | | | | | | | |

COGCC = Colorado Oil and Gas Conservation Commission PID = Photoionization Detector
mg/kg = milligrams per kilogram ppm-v = parts per million by volume MDL - Minimum Detection Limit
Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit.
Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits

EAGLE ENVIRONMENTAL CONSULTING, INC.

# ATTACHMENT A

# Photo Log

# Lilli Unit #6-9

## API # 05-123-13275

## Remediation # 21456

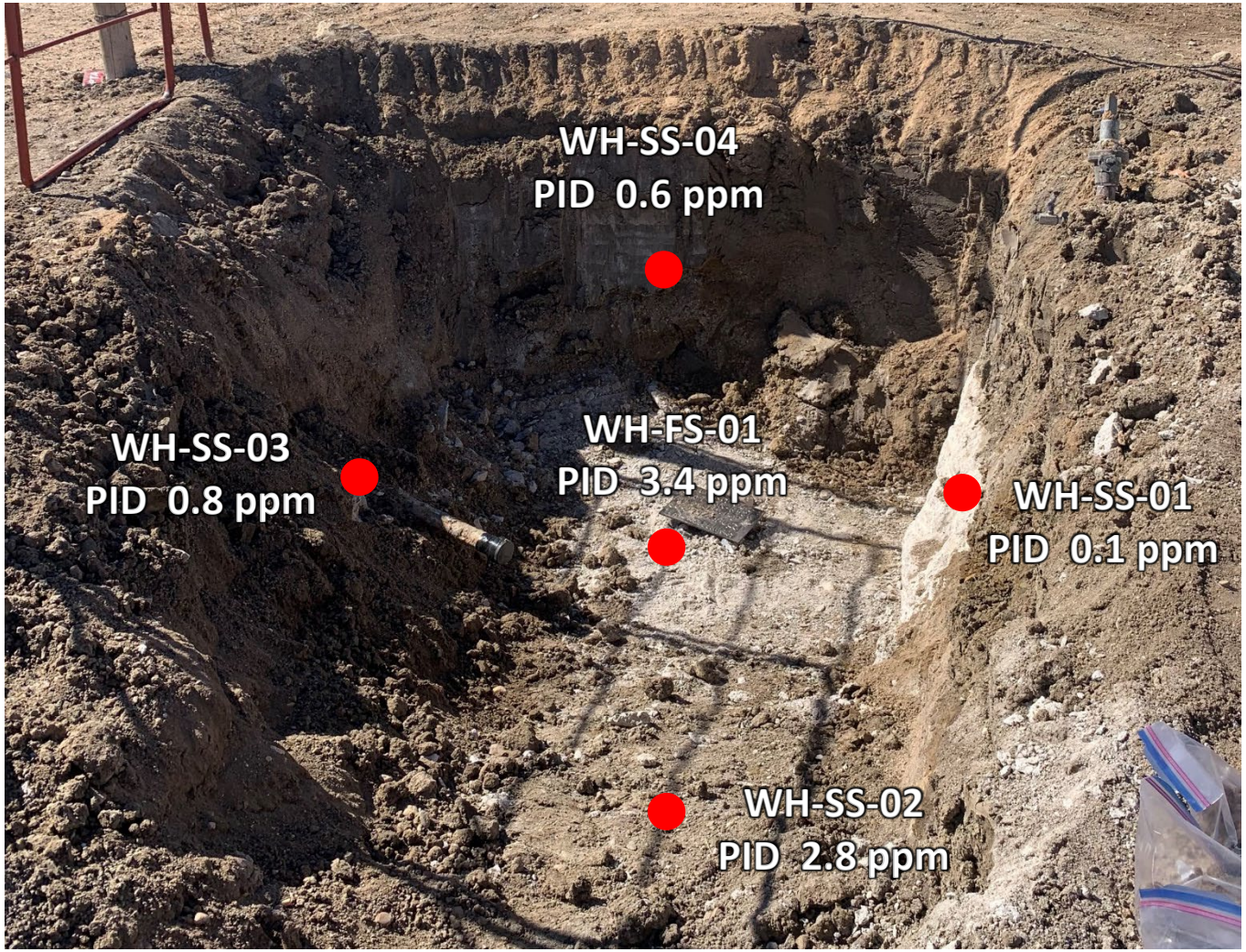
Closure Assessment

March 2022

EAGLE
ENVIRONMENTAL
CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 · F: 303-325-5449

noble energy

# Wellhead Excavation – 03/01/22




Looking west-southwest

No petroleum hydrocarbon staining or odor observed

# ATTACHMENT B

## Laboratory Analytical Reports

ORIGINS LABORATORY, INC

March 11, 2022

**Eagle Environmental Consulting, Inc.**

**Martin C Eckert III**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - Noble - Lilli Unit #6-9** **Project Number - [none]**

Attached are your analytical results for Noble - Lilli Unit #6-9 received by Origins Laboratory, Inc. March 02, 2022. This project is associated with Origins project number Y203046-01.

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

THE NELAC INSTITUTE

ACCREDITED
TESTING CERT # 3494.01

ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| WH-FS-01@5' | Y203046-01 | Soil | March 1, 2022 11:30 | 03/02/2022 10:20 |

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.*

Jordan A. Bynon For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

ORIGINS LABORATORY, INC
www.originslaboratory.com
page 1 of 1

Y203046

Client: Eagle Env Consulting
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-6479
Email Address: mce3@eagle-thum.com

Project Manager: Martin Eckert III
Project Name: Lilli Unit #6-9
Project Number: –
Samples Collected By: RH

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative: Unpreserved | HCl | $HNO_3$ | Other | Matrix: Groundwater | Soil | Air Summa Canister # | Other | Analysis: Gasoline | Diesel | BTEX/MTBE | Chloride | Sample Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 WH-FS@1@5' | 3/1/22 | 1130 | 2 | X | | | | | X | | | X | X | X | X | EC, SAR, pH = saturated paste pH |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | MDL needed |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |

Relinquished By: [signature] Date: 3/1/22 Time: 1000 Received By: [signature] Date: 3/2/22 Time: 1020

Relinquished By: Date: Time: Received By: Date: Time:

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☒

Temp Received- 2.7 Date Results Needed

☆ Bill to C/C ☆ Noble

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

Origins Laboratory, Inc.

JBynon

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Jordan A. Bynon For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y203046
Client: Eagle
Client Project ID: Lilli Unit 6-9
Checklist Completed by: JG
Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 3/2/22
Airbill #: N/A
Matrix(s) Received: (Check all that apply): X Soil/Solid ____ Water ____ Other: ____
Cooler Number/Temperature: 1 / 2.7 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C (Describe)
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[1]? | ✓ | | | |
| Is there ice present (document if blue ice is used) | ✓ | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | ✓ | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | ✓ | | |
| Were all samples received intact[1]? | ✓ | | | |
| Was adequate sample volume provided[1]? | ✓ | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present[1]? | | ✓ | | |
| Is a chain-of-custody (COC) present and filled out completely[1]? | ✓ | | | |
| Does the COC agree with the number and type of sample bottles received[1]? | ✓ | | | |
| Do the sample IDs on the bottle labels match the COC[1]? | ✓ | | | |
| Is the COC properly relinquished by the client with date and time recorded[1]? | ✓ | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.** | | | ✓ | |
| Are samples preserved that require preservation and was it checked [1]? *(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 HNO3, HCL, H2SO4) / ( pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)* | | | ✓ | |

Additional Comments (if any):

[1] *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 (Project Manager) JM

Date/Time Reviewed 3-3-22

Origins Laboratory, Inc.

JBynon

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Jordan A. Bynon For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

**WH-FS-01@5'**
**3/1/2022 11:30:00AM**

## Origins Laboratory, Inc.
**Y203046-01 (Soil)**

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **Boron (DTPA Sorbitol)** | | | | | | | | | |
| Boron | **0.197** | | 0.0983 | mg/L | 1 | B2C0302 | 03/03/2022 | 03/04/2022 | |
| **DRO/ORO by EPA 8015D** | | | | | | | | | |
| Diesel (C10-C28) | ND | | 25.0 | mg/kg | 1 | B2C0406 | 03/04/2022 | 03/10/2022 | U |
| Residual Range Organics (C28-C40) | ND | | 100 | " | " | " | " | " | U |
| *Surrogate: o-Terphenyl* | *69.6 %* | | *50-150* | | | " | " | " | |
| **GBTEX+TMBs by 8260D** | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | | 0.00200 | mg/kg | 1 | B2C0223 | 03/02/2022 | 03/04/2022 | U |
| 1,3,5-Trimethylbenzene | ND | | 0.00200 | " | " | " | " | " | U |
| Benzene | ND | | 0.00200 | " | " | " | " | " | U |
| Ethylbenzene | ND | | 0.00200 | " | " | " | " | " | U |
| Toluene | **0.0124** | | 0.00200 | " | " | " | " | " | |
| Xylenes, total | **0.00328** | | 0.00200 | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | | 0.200 | " | " | " | " | " | U |
| *Surrogate: 1,2-Dichloroethane-d4* | *101 %* | | *70-130* | | | " | " | " | |
| *Surrogate: Toluene-d8* | *105 %* | | *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.*

Jordan A. Bynon For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

**WH-FS-01@5'**
**3/1/2022 11:30:00AM**

## Origins Laboratory, Inc.
**Y203046-01 (Soil)**

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **GBTEX+TMBs by 8260D** | | | | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *96.5 %* | | *70-130* | | | *B2C0223* | *03/02/2022* | *03/04/2022* | |
| **Metals by Saturated Paste by EPA 6010** | | | | | | | | | |
| Calcium | **1.97** | | 0.499 | meq/L | 10 | [CALC] | 03/03/2022 | 03/04/2022 | |
| Magnesium | ND | | 0.823 | " | " | " | " | " | |
| Sodium | **0.931** | | 0.435 | " | " | " | " | " | |
| **PAH by 8270D SIM** | | | | | | | | | |
| 1-Methylnaphthalene | **0.00321** | **0.000364** | 0.00067 | mg/Kg | 1 | L602915 | 03/04/2022 | 03/04/2022 | |
| 2-Methylnaphthalene | **0.00297** | **0.000645** | 0.00067 | " | " | " | " | " | |
| Acenaphthene | ND | 0.000304 | 0.00067 | " | " | " | " | " | |
| Anthracene | ND | 0.000334 | 0.00067 | " | " | " | " | " | |
| Benzo(a)anthracene | ND | 0.000493 | 0.00067 | " | " | " | " | " | |
| Benzo(a)pyrene | ND | 0.000468 | 0.00067 | " | " | " | " | " | |
| Benzo(b)fluoranthene | ND | 0.000585 | 0.00067 | " | " | " | " | " | |
| Benzo(k)fluoranthene | ND | 0.000437 | 0.00067 | " | " | " | " | " | |
| Chrysene | **0.00102** | **0.000624** | 0.00067 | " | " | " | " | " | |
| Dibenz(a,h)anthracene | ND | 0.000614 | 0.00067 | " | " | " | " | " | |
| Fluoranthene | ND | 0.000394 | 0.00067 | " | " | " | " | " | |
| Fluorene | **0.000535** | **0.000286** | 0.00067 | " | " | " | " | " | J |

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Jordan A. Bynon For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

**WH-FS-01@5'**
**3/1/2022 11:30:00AM**

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **Waypoint Analytical, Inc.** | | | | | | | | | |
| **Y203046-01 (Soil)** | | | | | | | | | |
| **PAH by 8270D SIM** | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.000627 | 0.00067 | mg/Kg | 1 | L602915 | 03/04/2022 | 03/04/2022 | |
| Naphthalene | **0.00106** | **0.000484** | 0.00067 | " | " | " | " | " | |
| Pyrene | ND | 0.000643 | 0.00067 | " | " | " | " | " | |
| *Surrogate: 2-Fluorobiphenyl* | *64.7 %* | | *33-115* | | | " | " | " | |
| *Surrogate: 4-Terphenyl-d14* | *77.9 %* | | *33-122* | | | " | " | " | |
| *Surrogate: Nitrobenzene-d5* | *56.8 %* | | *29-110* | | | " | " | " | |
| **pH in Soil by 9045D** | | | | | | | | | |
| pH | **9.77** | | | pH Units | 1 | B2C0303 | 03/03/2022 | 03/04/2022 | |
| **SAR by 20B Saturated Paste** | | | | | | | | | |
| SAR | **0.897** | | | SAR | 1 | B2C0301 | 03/03/2022 | 03/04/2022 | |
| **Specific Conductance Mod. 9050A** | | | | | | | | | |
| Specific Conductance (EC) | **0.355** | | 0.00500 | mmhos/cm | 1 | B2C0304 | 03/03/2022 | 03/04/2022 | |

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## 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 B2C0223 - EPA 5030 (soil)** | | | | | | | | | | |
| **Blank (B2C0223-BLK1)** | | | | | Prepared: 03/02/2022 Analyzed: 03/03/2022 | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | | | | | | | U |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | | | | | | | U |
| Benzene | ND | 0.00200 | " | | | | | | | U |
| Ethylbenzene | ND | 0.00200 | " | | | | | | | U |
| Naphthalene | ND | 0.00380 | " | | | | | | | U |
| Toluene | ND | 0.00200 | " | | | | | | | U |
| Xylenes, total | ND | 0.00200 | " | | | | | | | U |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | | | | | | | U |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.10* | | *"* | *0.125* | | *83.6* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.13* | | *"* | *0.125* | | *105* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *0.12* | | *"* | *0.125* | | *92.7* | *70-130* | | | |

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## 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 B2C0223 - EPA 5030 (soil)** | | | | | | | | | | |
| **LCS (B2C0223-BS1)** | | | | | Prepared: 03/02/2022 Analyzed: 03/03/2022 | | | | | |
| 1,2,4-Trimethylbenzene | 0.0922 | 0.00200 | mg/kg | 0.100 | | 92.2 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0906 | 0.00200 | " | 0.100 | | 90.6 | 70-130 | | | |
| Benzene | 0.0838 | 0.00200 | " | 0.100 | | 83.8 | 70-130 | | | |
| Ethylbenzene | 0.0873 | 0.00200 | " | 0.100 | | 87.3 | 70-130 | | | |
| Naphthalene | 0.0919 | 0.0100 | " | 0.100 | | 91.9 | 70-130 | | | |
| Toluene | 0.0830 | 0.00200 | " | 0.100 | | 83.0 | 70-130 | | | |
| o-Xylene | 0.0875 | 0.00200 | " | 0.100 | | 87.5 | 70-130 | | | |
| m,p-Xylene | 0.178 | 0.00400 | " | 0.200 | | 89.2 | 70-130 | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.10* | | *"* | *0.125* | | *82.0* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.12* | | *"* | *0.125* | | *96.9* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *0.12* | | *"* | *0.125* | | *98.0* | *70-130* | | | |

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## 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 B2C0223 - EPA 5030 (soil)** | | | | | | | | | | |
| **Matrix Spike (B2C0223-MS1)** | | **Source: Y202572-01** | | | Prepared: 03/02/2022 Analyzed: 03/03/2022 | | | | | |
| 1,2,4-Trimethylbenzene | 0.590 | 0.00200 | mg/kg | 0.100 | ND | 590 | 70-130 | | | QM-02 |
| 1,3,5-Trimethylbenzene | 0.182 | 0.00200 | " | 0.100 | 0.152 | 30.1 | 70-130 | | | QM-02 |
| Benzene | 0.0767 | 0.00200 | " | 0.100 | 0.00354 | 73.2 | 70-130 | | | |
| Ethylbenzene | 0.250 | 0.00200 | " | 0.100 | 0.184 | 66.0 | 70-130 | | | QM-02 |
| Naphthalene | 0.325 | 0.0100 | " | 0.100 | 0.310 | 15.1 | 70-130 | | | QM-02 |
| Toluene | 0.117 | 0.00200 | " | 0.100 | 0.0486 | 68.4 | 70-130 | | | QM-02 |
| o-Xylene | 0.525 | 0.00200 | " | 0.100 | ND | 525 | 70-130 | | | QM-02 |
| m,p-Xylene | 0.725 | 0.00400 | " | 0.200 | 0.658 | 33.2 | 70-130 | | | QM-02 |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.12* | | *"* | *0.125* | | *92.4* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.13* | | *"* | *0.125* | | *108* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *0.21* | | *"* | *0.125* | | *166* | *70-130* | | | *QM-02* |

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## 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 B2C0223 - EPA 5030 (soil)** | | | | | | | | | | |
| **Matrix Spike Dup (B2C0223-MSD1)** | | **Source: Y202572-01** | | | Prepared: 03/02/2022 Analyzed: 03/03/2022 | | | | | |
| 1,2,4-Trimethylbenzene | 0.776 | 0.00200 | mg/kg | 0.100 | ND | 776 | 70-130 | 27.3 | 20 | QM-02 |
| 1,3,5-Trimethylbenzene | 0.255 | 0.00200 | " | 0.100 | 0.152 | 103 | 70-130 | 33.3 | 20 | QM-02 |
| Benzene | 0.0801 | 0.00200 | " | 0.100 | 0.00354 | 76.6 | 70-130 | 4.33 | 20 | |
| Ethylbenzene | 0.345 | 0.00200 | " | 0.100 | 0.184 | 161 | 70-130 | 32.0 | 20 | QM-02 |
| Naphthalene | 0.410 | 0.0100 | " | 0.100 | 0.310 | 101 | 70-130 | 23.3 | 20 | QM-02 |
| Toluene | 0.128 | 0.00200 | " | 0.100 | 0.0486 | 79.9 | 70-130 | 9.35 | 20 | |
| o-Xylene | 0.727 | 0.00200 | " | 0.100 | ND | 727 | 70-130 | 32.3 | 20 | QM-02 |
| m,p-Xylene | 1.02 | 0.00400 | " | 0.200 | 0.658 | 182 | 70-130 | 34.2 | 20 | QM-02 |
| *Surrogate: 1,2-Dichloroethane-d4* | *0.11* | | *"* | *0.125* | | *88.6* | *70-130* | | | |
| *Surrogate: Toluene-d8* | *0.13* | | *"* | *0.125* | | *107* | *70-130* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *0.23* | | *"* | *0.125* | | *181* | *70-130* | | | *QM-02* |

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Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## 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 B2C0406 - EPA 3550B** | | | | | | | | | | |
| **Blank (B2C0406-BLK1)** | | | | | Prepared: 03/04/2022 Analyzed: 03/07/2022 | | | | | |
| Diesel (C10-C28) | ND | 25.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | | | | | | | U |
| *Surrogate: o-Terphenyl* | *35* | | *"* | *24.9* | | *140* | *50-150* | | | |

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## 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 B2C0406 - EPA 3550B** | | | | | | | | | | |
| **LCS (B2C0406-BS1)** | | | | | Prepared: 03/04/2022 Analyzed: 03/09/2022 | | | | | |
| Diesel (C10-C28) | 1010 | 50.0 | mg/kg | 1000 | | 101 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 887 | 200 | " | 1000 | | 88.7 | 70-130 | | | |
| *Surrogate: o-Terphenyl* | *43* | | *"* | *49.8* | | *87.2* | *50-150* | | | |

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ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## 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 B2C0406 - EPA 3550B** | | | | | | | | | | |
| **Matrix Spike (B2C0406-MS1)** | | **Source: Y202582-01** | | | Prepared: 03/04/2022 Analyzed: 03/09/2022 | | | | | |
| Diesel (C10-C28) | 1090 | 50.0 | mg/kg | 1000 | ND | 109 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 961 | 200 | " | 1000 | ND | 96.1 | 70-130 | | | |
| *Surrogate: o-Terphenyl* | *48* | | *"* | *49.8* | | *97.0* | *50-150* | | | |

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## 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 B2C0406 - EPA 3550B** | | | | | | | | | | |
| **Matrix Spike Dup (B2C0406-MSD1)** | | **Source: Y202582-01** | | | Prepared: 03/04/2022 Analyzed: 03/09/2022 | | | | | |
| Diesel (C10-C28) | 991 | 50.0 | mg/kg | 1000 | ND | 99.1 | 70-130 | 9.25 | 35 | |
| Residual Range Organics (C28-C40) | 887 | 200 | " | 1000 | ND | 88.7 | 70-130 | 7.97 | 35 | |
| *Surrogate: o-Terphenyl* | *40* | | *"* | *49.8* | | *80.9* | *50-150* | | | |

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## 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 B2C0303 - NO PREP** | | | | | | | | | | |
| **Duplicate (B2C0303-DUP1)** | | **Source: Y203042-01** | | | Prepared: 03/03/2022 Analyzed: 03/04/2022 | | | | | |
| pH | 7.99 | | pH Units | | 8.11 | | | 1.49 | 25 | |
| **Batch B2C0304 - NO PREP** | | | | | | | | | | |
| **Blank (B2C0304-BLK1)** | | | | | Prepared: 03/03/2022 Analyzed: 03/04/2022 | | | | | |
| Specific Conductance (EC) | 0.00100 | 0.00500 | mmhos/cm | | | | | | | |
| **Duplicate (B2C0304-DUP1)** | | **Source: Y203042-01** | | | Prepared: 03/03/2022 Analyzed: 03/04/2022 | | | | | |
| Specific Conductance (EC) | 0.294 | 0.00500 | mmhos/cm | | 0.371 | | | 23.3 | 25 | |

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch L602915 - 3550B** | | | | | | | | | | |
| **MSD (L 99873-MSD-L602915)** | | **Source: 99873** | | | Prepared: 03/04/2022 Analyzed: 03/04/2022 | | | | | |
| Indeno(1,2,3-cd)pyrene | 0.0995 | 0.000627 | mg/Kg | 0.165 | <0.000627 | 60.3 | 30-130 | 5.3 | 30 | |
| Fluorene | 0.11 | 0.000286 | " | 0.165 | <0.000286 | 66.6 | 30-130 | 3.5 | 30 | |
| Fluoranthene | 0.129 | 0.000394 | " | 0.165 | <0.000394 | 78.1 | 30-130 | 11.6 | 30 | |
| Dibenz(a,h)anthracene | 0.132 | 0.000614 | " | 0.165 | <0.000614 | 80 | 30-130 | 2.2 | 30 | |
| Chrysene | 0.129 | 0.000624 | " | 0.165 | <0.000624 | 78.1 | 30-130 | 6.7 | 30 | |
| Benzo(k)fluoranthene | 0.11 | 0.000437 | " | 0.165 | <0.000437 | 66.6 | 30-130 | 12.7 | 30 | |
| Benzo(b)fluoranthene | 0.114 | 0.000585 | " | 0.165 | <0.000585 | 69 | 30-130 | 1.7 | 30 | |
| Acenaphthene | 0.0986 | 0.000304 | " | 0.165 | <0.000304 | 59.7 | 30-130 | 4.3 | 30 | |
| Anthracene | 0.114 | 0.000334 | " | 0.165 | <0.000334 | 69 | 30-130 | 5.1 | 30 | |
| Benzo(a)anthracene | 0.124 | 0.000493 | " | 0.165 | <0.000493 | 75.1 | 30-130 | 0.8 | 30 | |
| Benzo(a)pyrene | 0.132 | 0.000468 | " | 0.165 | <0.000468 | 80 | 30-130 | 7.2 | 30 | |
| Naphthalene | 0.108 | 0.000484 | " | 0.165 | <0.000484 | 65.4 | 30-130 | 0.9 | 30 | |
| Pyrene | 0.13 | 0.000643 | " | 0.165 | <0.000643 | 78.7 | 30-130 | 10.9 | 30 | |
| 2-Methylnaphthalene | 0.086 | 0.000645 | " | 0.165 | <0.000645 | 52.1 | 30-130 | 17 | 30 | |
| 1-Methylnaphthalene | 0.0959 | 0.000364 | " | 0.165 | <0.000364 | 58.1 | 30-130 | 15.4 | 30 | |
| *Surrogate: 4-Terphenyl-d14* | *90* | | *"* | *0.33* | *280* | *90* | *33-122* | | | |
| *Surrogate: Nitrobenzene-d5* | *53.3* | | *"* | *0.33* | *194* | *53.3* | *29-110* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *52.4* | | *"* | *0.33* | *219* | *52.4* | *33-115* | | | |
| **MS (L 99873-MS-L602915)** | | **Source: 99873** | | | Prepared: 03/04/2022 Analyzed: 03/04/2022 | | | | | |
| Dibenz(a,h)anthracene | 0.135 | 0.000614 | mg/Kg | 0.165 | <0.000614 | 81.8 | 30-130 | | | |
| Chrysene | 0.138 | 0.000624 | " | 0.165 | <0.000624 | 83.6 | 30-130 | | | |
| Benzo(a)anthracene | 0.123 | 0.000493 | " | 0.165 | <0.000493 | 74.5 | 30-130 | | | |
| Fluoranthene | 0.145 | 0.000394 | " | 0.165 | <0.000394 | 87.8 | 30-130 | | | |
| Indeno(1,2,3-cd)pyrene | 0.105 | 0.000627 | " | 0.165 | <0.000627 | 63.6 | 30-130 | | | |
| Naphthalene | 0.109 | 0.000484 | " | 0.165 | <0.000484 | 66 | 30-130 | | | |
| Pyrene | 0.145 | 0.000643 | " | 0.165 | <0.000643 | 87.8 | 30-130 | | | |

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch L602915 - 3550B** | | | | | | | | | | |
| **MS (L 99873-MS-L602915)** | | **Source: 99873** | | | Prepared: 03/04/2022 Analyzed: 03/04/2022 | | | | | |
| Acenaphthene | 0.103 | 0.000304 | mg/Kg | 0.165 | <0.000304 | 62.4 | 30-130 | | | |
| Benzo(k)fluoranthene | 0.125 | 0.000437 | " | 0.165 | <0.000437 | 75.7 | 30-130 | | | |
| Fluorene | 0.114 | 0.000286 | " | 0.165 | <0.000286 | 69 | 30-130 | | | |
| Anthracene | 0.12 | 0.000334 | " | 0.165 | <0.000334 | 72.7 | 30-130 | | | |
| 2-Methylnaphthalene | 0.102 | 0.000645 | " | 0.165 | <0.000645 | 61.8 | 30-130 | | | |
| 1-Methylnaphthalene | 0.112 | 0.000364 | " | 0.165 | <0.000364 | 67.8 | 30-130 | | | |
| Benzo(a)pyrene | 0.142 | 0.000468 | " | 0.165 | <0.000468 | 86 | 30-130 | | | |
| Benzo(b)fluoranthene | 0.116 | 0.000585 | " | 0.165 | <0.000585 | 70.3 | 30-130 | | | |
| *Surrogate: Nitrobenzene-d5* | *61.5* | | *"* | *0.33* | *194* | *61.5* | *29-110* | | | |
| *Surrogate: 4-Terphenyl-d14* | *99.6* | | *"* | *0.33* | *280* | *99.6* | *33-122* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *67.2* | | *"* | *0.33* | *219* | *67.2* | *33-115* | | | |
| **LCS (LCS-L602915)** | | | | | Prepared: 03/04/2022 Analyzed: 03/04/2022 | | | | | |
| Fluoranthene | 0.13 | 0.000394 | mg/Kg | 0.167 | | 77.8 | 30-130 | | | |
| Benzo(k)fluoranthene | 0.137 | 0.000437 | " | 0.167 | | 82 | 30-130 | | | |
| Naphthalene | 0.114 | 0.000484 | " | 0.167 | | 68.2 | 30-130 | | | |
| Pyrene | 0.134 | 0.000643 | " | 0.167 | | 80.2 | 30-130 | | | |
| Fluorene | 0.114 | 0.000286 | " | 0.167 | | 68.2 | 30-130 | | | |
| Dibenz(a,h)anthracene | 0.141 | 0.000614 | " | 0.167 | | 84.4 | 30-130 | | | |
| Chrysene | 0.131 | 0.000624 | " | 0.167 | | 78.4 | 30-130 | | | |
| 1-Methylnaphthalene | 0.114 | 0.000364 | " | 0.167 | | 68.2 | 30-130 | | | |
| Benzo(a)pyrene | 0.132 | 0.000468 | " | 0.167 | | 79 | 30-130 | | | |
| Benzo(a)anthracene | 0.122 | 0.000493 | " | 0.167 | | 73 | 30-130 | | | |
| Anthracene | 0.121 | 0.000334 | " | 0.167 | | 72.4 | 30-130 | | | |
| Acenaphthene | 0.103 | 0.000304 | " | 0.167 | | 61.6 | 30-130 | | | |
| 2-Methylnaphthalene | 0.108 | 0.000645 | " | 0.167 | | 64.6 | 30-130 | | | |
| Indeno(1,2,3-cd)pyrene | 0.107 | 0.000627 | " | 0.167 | | 64 | 30-130 | | | |

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch L602915 - 3550B** | | | | | | | | | | |
| **LCS (LCS-L602915)** | | | | | Prepared: 03/04/2022 Analyzed: 03/04/2022 | | | | | |
| Benzo(b)fluoranthene | 0.107 | 0.000585 | mg/Kg | 0.167 | | 64 | 30-130 | | | |
| *Surrogate: Nitrobenzene-d5* | *67.2* | | " | *0.333* | | *67.2* | *29-110* | | | |
| *Surrogate: 4-Terphenyl-d14* | *97.5* | | " | *0.333* | | *97.5* | *33-122* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *81* | | " | *0.333* | | *81* | *33-115* | | | |
| **LRB (LRB-L602915)** | | | | | Prepared: 03/04/2022 Analyzed: 03/04/2022 | | | | | |
| Chrysene | ND | 0.00067 | mg/Kg | | | | - | | | |
| Dibenz(a,h)anthracene | ND | 0.00067 | " | | | | - | | | |
| Fluoranthene | ND | 0.00067 | " | | | | - | | | |
| Fluorene | ND | 0.00067 | " | | | | - | | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.00067 | " | | | | - | | | |
| Benzo(k)fluoranthene | ND | 0.00067 | " | | | | - | | | |
| Naphthalene | 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* | *66.6* | | " | *0.333* | | *66.6* | *29-110* | | | |
| *Surrogate: 4-Terphenyl-d14* | *95.4* | | " | *0.333* | | *95.4* | *33-122* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *81* | | " | *0.333* | | *81* | *33-115* | | | |

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## Notes and Definitions

U Sample is Non-Detect.

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

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.

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Jordan A. Bynon For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

March 18, 2022

**Eagle Environmental Consulting, Inc.**

**Martin C Eckert III**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - Noble - Lilli Unit #6-9** **Project Number - [none]**

Attached are your analytical results for Noble - Lilli Unit #6-9 received by Origins Laboratory, Inc. March 11, 2022. This project is associated with Origins project number Y203321-01.

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

THE NELAC INSTITUTE

ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| Background-01@2' | Y203321-01 | Soil | March 1, 2022 11:32 | 03/11/2022 14:37 |

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

ORIGINS LABORATORY, INC

www.originslaboratory.com

page 1 of 1

Y20332

Client: Eagle Env. Consulting
Address: 8000 W 44th Ave
Wheat Ridge, Co 80033
Telephone Number: 303-433-0479
Email Address: me3@eagle-envirio.com

Project Manager: Martin Eckert III
Project Name: Lilli Unit #6-9
Project Number: —
Samples Collected By: RH

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative: Unpreserved | HCl | $HNO_3$ | Other | Matrix: Groundwater | Soil | Air Summa Canister # | Other | Analysis: pH, pOHS D | | | | | | | | | Sample Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Background-0 to 2' | 3/1/22 | 1132 | 1 | X | | | | | X | | | X | | | | | | | | | Saturated paste prep |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | |

Relinquished By: [signature] Date: 3/1/22 Time: 1437
Received By: [signature] Date: 3/1/22 Time: 1437
Relinquished By: Date: Time:
Received By: Date: Time:

Temp Received- 4.8
Date Results Needed
Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☑

Bill to Cole

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

Origins Laboratory, Inc.

JBynon

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Jordan A. Bynon For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: V203321
Client: Eagle
Client Project ID: Lilli Unit 6-9

Checklist Completed by: JG
Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 3/14/22
Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid ____ Water ____ Other: ____

Cooler Number/Temperature: 1 / 4.8 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C (Describe)

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[1]? | ✓ | | | |
| Is there ice present (document if blue ice is used) | ✓ | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | ✓ | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | ✓ | | |
| Were all samples received intact[1]? | ✓ | | | |
| Was adequate sample volume provided[1]? | ✓ | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present[1]? | | ✓ | | |
| Is a chain-of-custody (COC) present and filled out completely[1]? | ✓ | | | |
| Does the COC agree with the number and type of sample bottles received[1]? | ✓ | | | |
| Do the sample IDs on the bottle labels match the COC[1]? | ✓ | | | |
| Is the COC properly relinquished by the client with date and time recorded[1]? | ✓ | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.** | | | ✓ | |
| Are samples preserved that require preservation and was it checked[1]? *(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 HNO3, HCL, H2SO4) / ( pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)* | | | ✓ | |

Additional Comments (if any):

[1] *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.*

JB
Reviewed by (Project Manager)

3-15-22
Date/Time Reviewed

Origins Laboratory, Inc.

JBynon

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Jordan A. Bynon For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

**Background-01@2'**
**3/1/2022 11:32:00AM**

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

## Origins Laboratory, Inc.
**Y203321-01 (Soil)**

### pH in Soil by 9045D

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| pH | **7.79** | | pH Units | 1 | B2C1419 | ACC | 03/14/2022 | 03/15/2022 | |

Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## Saturated Paste - Quality Control
## Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B2C1419 - NO PREP** | | | | | | | | | | |
| **Duplicate (B2C1419-DUP1)** | | **Source: Y203318-01** | | | Prepared: 03/14/2022 Analyzed: 03/15/2022 | | | | | |
| pH | 7.64 | | pH Units | | 7.81 | | | 2.20 | 25 | |

Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #6-9

## Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

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