

September 18, 2020

**Olsson Associates**

**Trent Watne**

**1525 Raleigh St, Suite 400**

**Denver**

**CO 80204**

**Project Name - Marcus 11-361HNX**

**Project Number - 020-2680**

Attached are your analytical results for Marcus 11-361HNX received by Origins Laboratory, Inc. September 11, 2020. This project is associated with Origins project number Y009140-01.

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



Olsson Associates

1525 Raleigh St, Suite 400

Denver CO 80204

Trent Watne

Project Number: 020-2680

Project: Marcus 11-361HNX

## CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled            | Date Received    |
|-----------|---------------|--------|-------------------------|------------------|
| Marcus-01 | Y009140-01    | Soil   | September 11, 2020 9:00 | 09/11/2020 10:25 |
| Marcus-02 | Y009140-02    | Soil   | September 11, 2020 9:10 | 09/11/2020 10:25 |
| Marcus-03 | Y009140-03    | Soil   | September 11, 2020 9:20 | 09/11/2020 10:25 |

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Project Number: 020-2680  
Project: Marcus 11-361HNX

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: Y009140

Client: Olsson

Client Project ID: Marcus 11-36

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 9/11/2020

Airbill #: N/A

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

Water

Other:

Cooler Number/Temperature: 1 17.6 °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 <sup>(1)</sup> ?   |     |    |     |                   |
| Is there ice present (document if blue ice is used)   |     |    |     | <u>Some Dry</u>   |
| 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 <sup>(1)</sup> ?   |     |    |     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  |     |    |     |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?  |     |    |     |                   |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?  |     |    |     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   |     |    |     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   |     |    |     |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?   |     |    |     |                   |
| 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 <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 NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH) |     |    |     |                   |
| 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 (Project Manager) JM

9-14-20  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jordan A. Merrill*

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Trent Watne  
Project Number: 020-2680  
Project: Marcus 11-361HNX

## Marcus-01

9/11/2020 9:00:00AM

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

## Origins Laboratory, Inc. Y009140-01 (Soil)

### BTEX/TVPH by EPA 8260D

|                             |      |        |       |    |         |     |            |            |   |
|-----------------------------|------|--------|-------|----|---------|-----|------------|------------|---|
| Benzene                     | ND   | 0.0500 | mg/kg | 25 | B011106 | KDK | 09/11/2020 | 09/11/2020 | U |
| Toluene                     | ND   | 0.0500 | "     | "  | "       | KDK | "          | "          | U |
| Ethylbenzene                | ND   | 0.0500 | "     | "  | "       | KDK | "          | "          | U |
| Xylenes, total              | ND   | 0.0500 | "     | "  | "       | KDK | "          | "          | U |
| Gasoline Range Hydrocarbons | 15.2 | 5.00   | "     | "  | "       | KDK | "          | "          |   |

|                                  |        |        |  |  |   |   |   |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 101 %  | 70-130 |  |  | " | " | " |
| Surrogate: Toluene-d8            | 102 %  | 70-130 |  |  | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 96.5 % | 70-130 |  |  | " | " | " |

### Diesel Range Organics (DRO/TEPH) by EPA 8015D

|                        |        |        |       |   |         |     |            |            |   |
|------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28)       | ND     | 50.0   | mg/kg | 1 | B011107 | TEM | 09/11/2020 | 09/11/2020 | U |
| Surrogate: o-Terphenyl | 72.2 % | 50-150 |       |   | "       | "   | "          |            |   |

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Project Number: 020-2680  
Project: Marcus 11-361HNX

## Marcus-02

9/11/2020 9:10:00AM

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

## Origins Laboratory, Inc. Y009140-02 (Soil)

### BTEX/TVPH by EPA 8260D

|                             |    |        |       |    |         |     |            |            |   |
|-----------------------------|----|--------|-------|----|---------|-----|------------|------------|---|
| Benzene                     | ND | 0.0500 | mg/kg | 25 | B011106 | KDK | 09/11/2020 | 09/11/2020 | U |
| Toluene                     | ND | 0.0500 | "     | "  | "       | KDK | "          | "          | U |
| Ethylbenzene                | ND | 0.0500 | "     | "  | "       | KDK | "          | "          | U |
| Xylenes, total              | ND | 0.0500 | "     | "  | "       | KDK | "          | "          | U |
| Gasoline Range Hydrocarbons | ND | 5.00   | "     | "  | "       | KDK | "          | "          | U |

|                                  |        |        |   |   |   |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 101 %  | 70-130 | " | " | " |
| Surrogate: Toluene-d8            | 100 %  | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 94.8 % | 70-130 | " | " | " |

### Diesel Range Organics (DRO/TEPH) by EPA 8015D

|                        |        |        |       |   |         |     |            |            |   |
|------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28)       | ND     | 50.0   | mg/kg | 1 | B011107 | TEM | 09/11/2020 | 09/11/2020 | U |
| Surrogate: o-Terphenyl | 62.2 % | 50-150 |       |   | "       |     | "          | "          |   |

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## Marcus-03

9/11/2020 9:20:00AM

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

## Origins Laboratory, Inc. Y009140-03 (Soil)

### BTEX/TVPH by EPA 8260D

|                             |    |        |       |    |         |     |            |            |   |
|-----------------------------|----|--------|-------|----|---------|-----|------------|------------|---|
| Benzene                     | ND | 0.0500 | mg/kg | 25 | B011106 | KDK | 09/11/2020 | 09/11/2020 | U |
| Toluene                     | ND | 0.0500 | "     | "  | "       | KDK | "          | "          | U |
| Ethylbenzene                | ND | 0.0500 | "     | "  | "       | KDK | "          | "          | U |
| Xylenes, total              | ND | 0.0500 | "     | "  | "       | KDK | "          | "          | U |
| Gasoline Range Hydrocarbons | ND | 5.00   | "     | "  | "       | KDK | "          | "          | U |

|                                  |        |        |   |   |   |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 101 %  | 70-130 | " | " | " |
| Surrogate: Toluene-d8            | 101 %  | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 96.4 % | 70-130 | " | " | " |

### Diesel Range Organics (DRO/TEPH) by EPA 8015D

|                        |        |        |       |   |         |     |            |            |   |
|------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28)       | ND     | 50.0   | mg/kg | 1 | B011107 | TEM | 09/11/2020 | 09/11/2020 | U |
| Surrogate: o-Terphenyl | 58.8 % | 50-150 |       |   | "       |     | "          | "          |   |

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Project Number: 020-2680  
Project: Marcus 11-361HNX

**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 B011106 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B011106-BLK1)</b>            |        |                 |       |             | Prepared: 09/11/2020 Analyzed: 09/11/2020 |      |             |     |           |       |
| Benzene                                | ND     | 0.00200         | mg/kg |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 0.13   |                 | "     | 0.125       |   | 103  | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 0.12   |                 | "     | 0.125       |   | 98.6 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.12   |                 | "     | 0.125       |   | 95.0 | 70-130      |     |           |       |

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Project: Marcus 11-361HNX

**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 B011106 - EPA 5030 (soil)**

**LCS (B011106-BS1)**

Prepared: 09/11/2020 Analyzed: 09/11/2020

|                                  |        |         |       |       |  |      |        |  |  |  |
|----------------------------------|--------|---------|-------|-------|--|------|--------|--|--|--|
| Benzene                          | 0.103  | 0.00200 | mg/kg | 0.100 |  | 103  | 70-130 |  |  |  |
| Toluene                          | 0.0993 | 0.00200 | "     | 0.100 |  | 99.3 | 70-130 |  |  |  |
| Ethylbenzene                     | 0.101  | 0.00200 | "     | 0.100 |  | 101  | 70-130 |  |  |  |
| m,p-Xylene                       | 0.197  | 0.00400 | "     | 0.200 |  | 98.4 | 70-130 |  |  |  |
| o-Xylene                         | 0.0952 | 0.00200 | "     | 0.100 |  | 95.2 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12   |         | "     | 0.125 |  | 96.3 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.12   |         | "     | 0.125 |  | 99.7 | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.12   |         | "     | 0.125 |  | 98.8 | 70-130 |  |  |  |

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Project Number: 020-2680  
Project: Marcus 11-361HNX

**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 B011106 - EPA 5030 (soil)**

| Matrix Spike (B011106-MS1)       |        | Source: Y009140-01 |       |       | Prepared: 09/11/2020 Analyzed: 09/11/2020 |      |        |  |  |  |
|----------------------------------|--------|--------------------|-------|-------|---|------|--------|--|--|--|
| Benzene                          | 0.0802 | 0.00200            | mg/kg | 0.100 | ND  | 80.2 | 70-130 |  |  |  |
| Toluene                          | 0.0780 | 0.00200            | "     | 0.100 | ND  | 78.0 | 70-130 |  |  |  |
| Ethylbenzene                     | 0.0766 | 0.00200            | "     | 0.100 | ND  | 76.6 | 70-130 |  |  |  |
| m,p-Xylene                       | 0.152  | 0.00400            | "     | 0.200 | ND  | 75.9 | 70-130 |  |  |  |
| o-Xylene                         | 0.0737 | 0.00200            | "     | 0.100 | ND  | 73.7 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12   |                    | "     | 0.125 |   | 96.6 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.13   |                    | "     | 0.125 |   | 101  | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.12   |                    | "     | 0.125 |   | 98.1 | 70-130 |  |  |  |

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Project Number: 020-2680  
Project: Marcus 11-361HNX

**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 B011106 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |      |           |       |
| <b>Matrix Spike Dup (B011106-MSD1)</b> |        | <b>Source: Y009140-01</b> |       |             | Prepared: 09/11/2020 Analyzed: 09/11/2020 |      |             |      |           |       |
| Benzene                                | 0.105  | 0.00200                   | mg/kg | 0.100       | ND  | 105  | 70-130      | 26.4 | 20        | QR-03 |
| Toluene                                | 0.101  | 0.00200                   | "     | 0.100       | ND  | 101  | 70-130      | 25.7 | 20        | QR-03 |
| Ethylbenzene                           | 0.100  | 0.00200                   | "     | 0.100       | ND  | 100  | 70-130      | 26.7 | 20        | QR-03 |
| m,p-Xylene                             | 0.195  | 0.00400                   | "     | 0.200       | ND  | 97.7 | 70-130      | 25.1 | 20        | QR-03 |
| o-Xylene                               | 0.0952 | 0.00200                   | "     | 0.100       | ND  | 95.2 | 70-130      | 25.4 | 20        | QR-03 |
| Surrogate: 1,2-Dichloroethane-d4       | 0.12   |                           | "     | 0.125       |   | 98.3 | 70-130      |      |           |       |
| Surrogate: Toluene-d8                  | 0.13   |                           | "     | 0.125       |   | 101  | 70-130      |      |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.12   |                           | "     | 0.125       |   | 97.9 | 70-130      |      |           |       |

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**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 B011107 - EPA 3550B

Blank (B011107-BLK1)

Prepared: 09/11/2020 Analyzed: 09/11/2020

|                        |    |      |       |      |  |      |        |  |  |   |
|------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28)       | ND | 25.0 | mg/kg |      |  |      |        |  |  | U |
| Surrogate: o-Terphenyl | 16 |      | "     | 25.0 |  | 64.7 | 50-150 |  |  |   |

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**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 B011107 - EPA 3550B

**LCS (B011107-BS1)**

Prepared: 09/11/2020 Analyzed: 09/11/2020

|                        |     |      |       |      |  |      |        |  |  |  |
|------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)       | 897 | 50.0 | mg/kg | 1000 |  | 89.7 | 70-130 |  |  |  |
| Surrogate: o-Terphenyl | 39  |      | "     | 50.0 |  | 79.0 | 50-150 |  |  |  |

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**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 B011107 - EPA 3550B**

| Matrix Spike (B011107-MS1) |     | Source: Y009140-01 |       |      | Prepared: 09/11/2020 Analyzed: 09/11/2020 |      |        |  |  |  |
|----------------------------|-----|--------------------|-------|------|---|------|--------|--|--|--|
| Diesel (C10-C28)           | 893 | 50.0               | mg/kg | 1000 | ND  | 89.3 | 70-130 |  |  |  |
| Surrogate: o-Terphenyl     | 40  |                    | "     | 50.0 |   | 80.6 | 50-150 |  |  |  |

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## 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 B011107 - EPA 3550B

| Matrix Spike Dup (B011107-MSD1) |     | Source: Y009140-01 |       |      | Prepared: 09/11/2020 Analyzed: 09/11/2020 |      |        |      |    |  |
|---------------------------------|-----|--------------------|-------|------|---|------|--------|------|----|--|
| Diesel (C10-C28)                | 856 | 50.0               | mg/kg | 1000 | ND  | 85.6 | 70-130 | 4.31 | 35 |  |
| Surrogate: o-Terphenyl          | 38  |                    | "     | 50.0 |   | 75.3 | 50-150 |      |    |  |

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### Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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