

**DCP O'Connor GAS PLANT CND SITE  
FEBRUARY 2020  
FORM 27 SUPPLEMENTAL SUMMARY REPORT**

**ATTACHMENTS**

**Tables**

- 1 Summary of Soil Analytical Results

**Figures**

- 1 Site Location Map
- 2 Site Overview Map with Soil Sample Locations
- 3 February 2020 Soil Sample Locations and Analytical Results

**Appendices**

- A Laboratory Analytical Reports
  - Origins Laboratory Job #: Y002049
  - Origins Laboratory Job #: Y002242
- B Boring Logs

**TABLE 1**  
**DCP MIDSTREAM - O'CONNOR 1 CND GAS PLANT**  
**SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE**

Sample ID	Date Sampled	PID Reading (PPM)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH (mg/kg) <sup>2</sup>	Comments
CND#1	11/15/2019	-	<0.0500	1.05	0.976	10.40	<b>581</b>	
CND#1	12/12/2019	-	0.003	0.004	<0.002	<0.002	<50.0	
CND#2	11/15/2019	-	<b>4.04</b>	37.2	3.20	24.7	<b>521.2</b>	
CND#2	12/12/2019	-	<b>19.6</b>	84.4	6.99	72.6	69.2	
CND#2	12/26/2019	-	<b>18.0</b>	47.6	2.93	22.0	<50.0	
CND#3	11/15/2019	-	0.499	2.14	0.282	2.26	53.8	
CND#3	12/12/2019	-	<b>1.54</b>	5.58	0.626	4.52	<50.0	
CND#3	12/26/2019	-	<b>14.2</b>	37.9	2.86	20.9	<50.0	
BH01 @ 7'	2/5/2020	1,008	<b>0.260</b>	1.54	0.288	2.18	<50.0	
BH02 @ 3'	2/5/2020	21.6	<0.050	<0.050	<0.050	<0.050	<50.0	
BH03 @ 3'	2/5/2020	55.3	<0.050	<0.050	<0.050	<0.050	<50.0	
BH04 @ 3'	2/5/2020	400.0	<0.050	0.308	0.0630	0.502	<50.0	
BH05 @ 3'	2/5/2020	198.0	0.0545	<0.050	<0.050	<0.050	<50.0	
BH06 @ 5'	2/5/2020	824.0	<b>0.558</b>	1.62	0.170	1.23	<50.0	
BH07 @ 6'	2/18/2020	3.9	<0.050	<0.050	<0.050	<0.050	<50.0	Step out from BH06
BH08 @ 7'	2/18/2020	58.0	0.0766	0.252	0.0225	0.172	<50.0	Step out from BH01
<b>COGCC standards for Soil (mg/kg)<sup>(1)</sup></b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>500</b>	

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 910-1, effective January 30, 2015.

2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

GRO - Gasoline range organics.

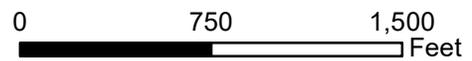
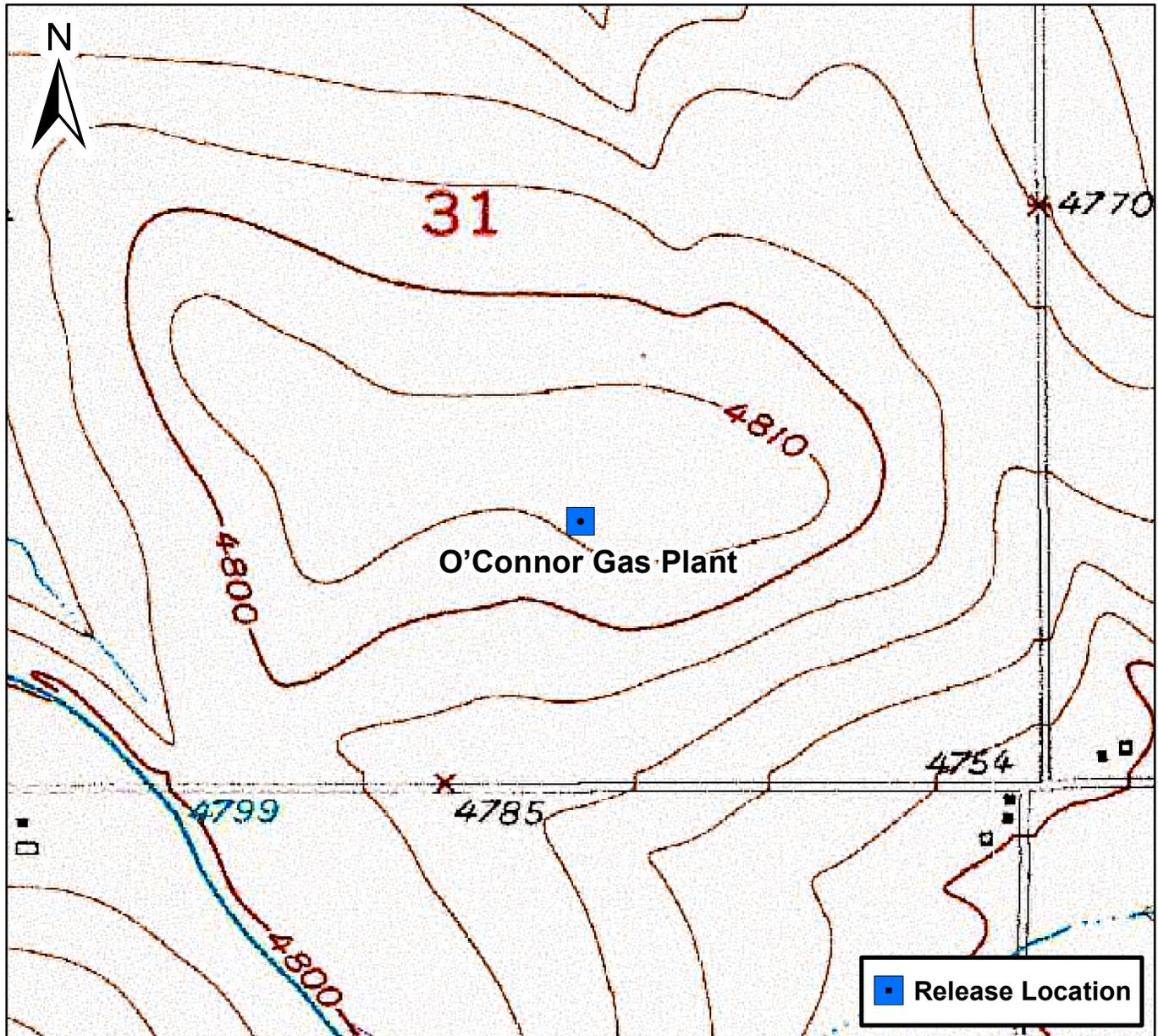
DRO - Diesel range organics.

mg/kg= Milligrams per kilogram.

PID - Photoionization Detector

ppm - Parts per million

NA - Not Analyzed



### Figure 1

Site Location Map  
 O'Connor Gas Plant  
 SWSE S31 T5N R64W  
 Weld County, Colorado





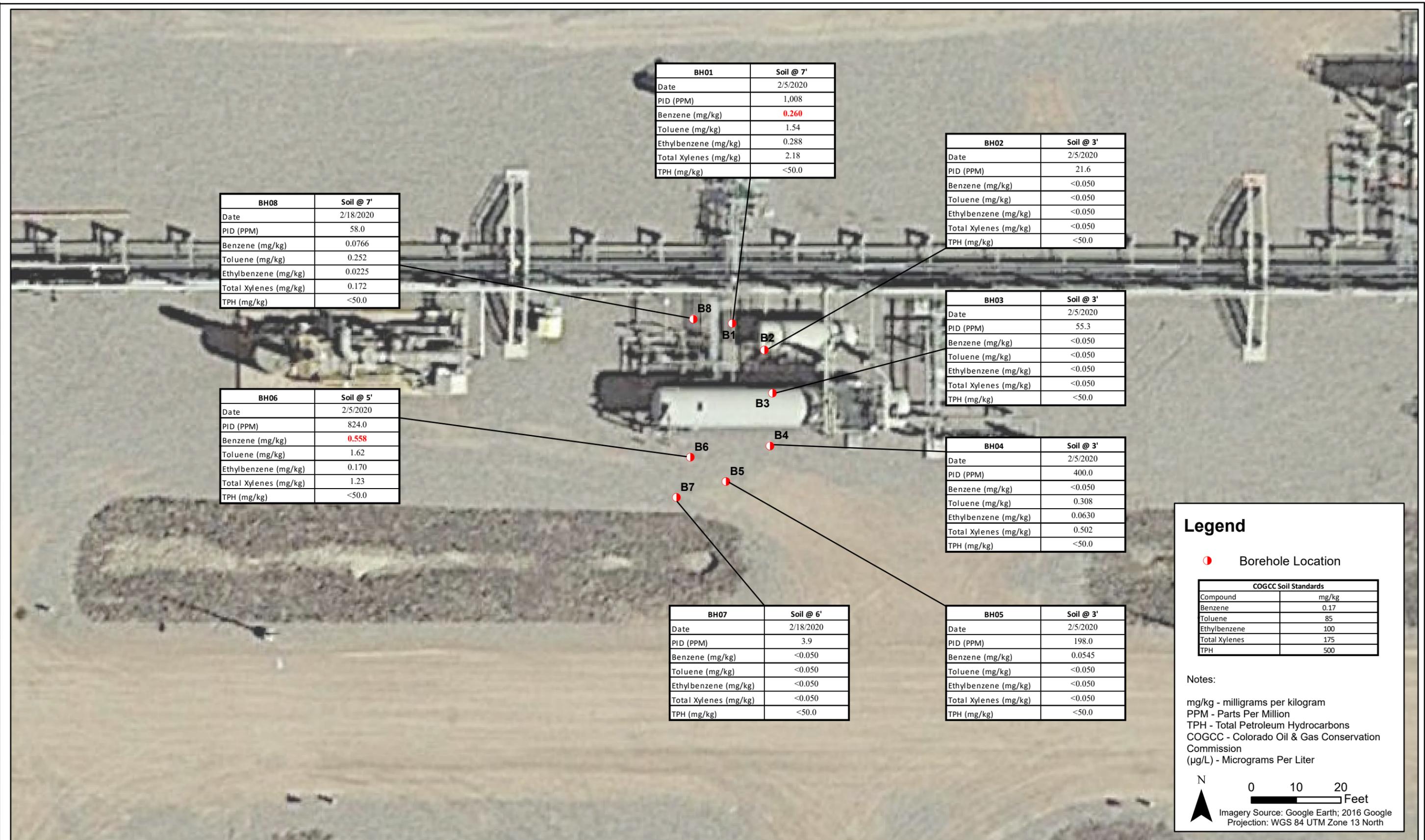
DATE:	February 2020
DESIGNED BY:	B. Humphrey
DRAWN BY:	L. Martin


**TASMAN** Tasman Geosciences, Inc.  
 GEOSCIENCES 6855 W. 119th Ave  
 Broomfield, CO 80020

**DCP Midstream**  
**O'Connor Gas Plant**  
 SWSE, Section 31, Township 5 North, Range 64 West  
 Weld County, Colorado

Site Location Map

Figure  
 1



DATE: February 2020  
DESIGNED BY: B. Humphrey  
DRAWN BY: L. Martin



**DCP Midstream  
O'Connor Gas Plant**  
SWSE, Section 31, Township 5 North, Range 64 West  
Weld County, Colorado

Soil Sample Locations  
and Analytical Results  
(February 5 and 18, 2020)

Figure  
3

February 10, 2020

DCP Midstream

Chandler Cole

3026 4th Ave.

Greeley, CO 80631 CO 80631

Project Name - O'Connor 1

Project Number - [none]

Attached are your analytical results for O'Connor 1 received by Origins Laboratory, Inc. February 05, 2020. This project is associated with Origins project number Y002049-01.

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



DCP Midstream  
3026 4th Ave.  
Greeley, CO 80631CO 80631

Chandler Cole  
Project Number: [none]  
Project: O'Connor 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1@7'	Y002049-01	Soil	February 5, 2020 13:21	02/05/2020 16:45
B2@3'	Y002049-02	Soil	February 5, 2020 14:50	02/05/2020 16:45
B3@3'	Y002049-03	Soil	February 5, 2020 14:30	02/05/2020 16:45
B4@3'	Y002049-04	Soil	February 5, 2020 14:15	02/05/2020 16:45
B5@3'	Y002049-05	Soil	February 5, 2020 13:55	02/05/2020 16:45
B6@5'	Y002049-06	Soil	February 5, 2020 13:50	02/05/2020 16:45

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.*



DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y002049

Client: DCP

Client Project ID: O'Connor 1

Checklist Completed by: JG

Shipped Via: HS

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

Date/time completed: 2/6/20

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.1 °C      /      °C      /      °C (Describe)

Thermometer ID: 9003

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<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 NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<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 (Project Manager) JG

2/6/20  
 Date/Time Reviewed

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.

DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**B1@7'**  
**2/5/2020 1:21:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y002049-01 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	0.260	0.0500	mg/kg	25	B0B0603	ZZZ	02/06/2020	02/06/2020	
Toluene	1.54	0.0500	"	"	"	ZZZ	"	"	
Ethylbenzene	0.288	0.0500	"	"	"	ZZZ	"	"	
Xylenes, total	2.18	0.0500	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	38.8	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0604	TEM	02/06/2020	02/06/2020	U
Surrogate: o-Terphenyl	64.9 %	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.

DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**B2@3'**  
**2/5/2020 2:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y002049-02 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0B0603	ZZZ	02/06/2020	02/06/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0604	TEM	02/06/2020	02/07/2020	U
Surrogate: o-Terphenyl	73.0 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**B3@3'**  
**2/5/2020 2:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y002049-03 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0B0603	ZZZ	02/06/2020	02/06/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0604	TEM	02/06/2020	02/07/2020	U
Surrogate: o-Terphenyl	64.7 %	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.

DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**B4@3'**  
**2/5/2020 2:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y002049-04 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0B0603	ZZZ	02/06/2020	02/06/2020	U
Toluene	<b>0.308</b>	0.0500	"	"	"	ZZZ	"	"	
Ethylbenzene	<b>0.0630</b>	0.0500	"	"	"	ZZZ	"	"	
Xylenes, total	<b>0.502</b>	0.0500	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	<b>7.94</b>	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0604	TEM	02/06/2020	02/07/2020	U
Surrogate: o-Terphenyl	65.0 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**B5@3'**  
**2/5/2020 1:55:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y002049-05 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0B0603	ZZZ	02/06/2020	02/06/2020	U
Toluene	<b>0.0545</b>	0.0500	"	"	"	ZZZ	"	"	
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0604	TEM	02/06/2020	02/07/2020	U
Surrogate: o-Terphenyl	58.1 %	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.

DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**B6@5'**  
**2/5/2020 1:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y002049-06 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	0.558	0.0500	mg/kg	25	B0B0603	ZZZ	02/06/2020	02/06/2020	
Toluene	1.62	0.0500	"	"	"	ZZZ	"	"	
Ethylbenzene	0.170	0.0500	"	"	"	ZZZ	"	"	
Xylenes, total	1.23	0.0500	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	11.5	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B0604	TEM	02/06/2020	02/07/2020	U
Surrogate: o-Terphenyl	59.4 %	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.

DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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**Batch B0B0603 - EPA 5030 (soil)**

**Blank (B0B0603-BLK1)**

Prepared: 02/06/2020 Analyzed: 02/06/2020

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	0.12		"	0.125		99.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	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.*

DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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**Batch B0B0603 - EPA 5030 (soil)**

**LCS (B0B0603-BS1)**

Prepared: 02/06/2020 Analyzed: 02/06/2020

Benzene	0.105	0.00200	mg/kg	0.100		105	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	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.*

DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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**Batch B0B0603 - EPA 5030 (soil)**

<b>Matrix Spike (B0B0603-MS1)</b>	<b>Source: Y002049-01</b>			<b>Prepared: 02/06/2020 Analyzed: 02/06/2020</b>						
Benzene	0.109	0.00200	mg/kg	0.100	0.260	NR	70-130			QM-07
Toluene	0.148	0.00200	"	0.100	1.54	NR	70-130			QM-07
Ethylbenzene	0.109	0.00200	"	0.100	0.288	NR	70-130			QM-07
m,p-Xylene	0.246	0.00400	"	0.200	1.66	NR	70-130			QM-07
o-Xylene	0.122	0.00200	"	0.100	0.523	NR	70-130			QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>105</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>97.6</i>	<i>70-130</i>			

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.*

DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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Batch B0B0603 - EPA 5030 (soil)

Matrix Spike Dup (B0B0603-MSD1)	Source: Y002049-01			Prepared: 02/06/2020 Analyzed: 02/06/2020						
Benzene	0.0921	0.00200	mg/kg	0.100	0.260	NR	70-130	16.8	20	QM-07
Toluene	0.120	0.00200	"	0.100	1.54	NR	70-130	21.0	20	QM-07, QR-03
Ethylbenzene	0.0900	0.00200	"	0.100	0.288	NR	70-130	19.2	20	QM-07
m,p-Xylene	0.202	0.00400	"	0.200	1.66	NR	70-130	19.5	20	QM-07
o-Xylene	0.101	0.00200	"	0.100	0.523	NR	70-130	19.1	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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 B0B0604 - EPA 3580</b>										
<b>Blank (B0B0604-BLK1)</b>										
					Prepared: 02/06/2020 Analyzed: 02/06/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	18		"	25.0		72.5	50-150			

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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**Batch B0B0604 - EPA 3580**

**LCS (B0B0604-BS1)**

Prepared: 02/06/2020 Analyzed: 02/06/2020

Diesel (C10-C28)	802	50.0	mg/kg	1000		80.2	70-130			
Surrogate: o-Terphenyl	46		"	50.0		91.5	50-150			

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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**Batch B0B0604 - EPA 3580**

<b>Matrix Spike (B0B0604-MS1)</b>	<b>Source: Y002049-01</b>			Prepared: 02/06/2020 Analyzed: 02/06/2020						
Diesel (C10-C28)	750	50.0	mg/kg	1000	ND	75.0	70-130			
Surrogate: o-Terphenyl	41		"	50.0		81.8	50-150			

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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**Batch B0B0604 - EPA 3580**

<b>Matrix Spike Dup (B0B0604-MSD1)</b>	<b>Source: Y002049-01</b>			<b>Prepared: 02/06/2020 Analyzed: 02/06/2020</b>						
Diesel (C10-C28)	803	50.0	mg/kg	1000	ND	80.3	70-130	6.88	35	
Surrogate: o-Terphenyl	47		"	50.0		94.7	50-150			

Origins Laboratory, Inc.



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DCP Midstream  
3026 4th Ave.  
Greeley, CO 80631CO 80631

Chandler Cole  
Project Number: [none]  
Project: O'Connor 1

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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.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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---

Jen Pellegrini For Noelle Doyle Mathis, President

February 25, 2020

DCP Midstream

Chandler Cole

3026 4th Ave.

Greeley, CO 80631 CO 80631

Project Name - O'Connor 1

Project Number - [none]

Attached are your analytical results for O'Connor 1 received by Origins Laboratory, Inc. February 18, 2020. This project is associated with Origins project number Y002242-01.

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



DCP Midstream  
3026 4th Ave.  
Greeley, CO 80631CO 80631

Chandler Cole  
Project Number: [none]  
Project: O'Connor 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B7@6'	Y002242-01	Soil	February 18, 2020 13:56	02/18/2020 17:30
B8@7'	Y002242-02	Soil	February 18, 2020 15:25	02/18/2020 17:30

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y002242

Client: DCP Midstream

Client Project ID: O'Connor 1

Checklist Completed by: JG

Shipped Via: \_\_\_\_\_  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/19/20

Airbill #: \_\_\_\_\_

Matrix(s) Received: (Check all that apply):  Soil/Solid \_\_\_\_\_ Water \_\_\_\_\_ Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 3.1 °C \_\_\_\_\_ / \_\_\_\_\_ °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? <b>If yes, contact client and note in narrative.</b>			<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 NaAsO <sub>2</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 (Project Manager) JG

Date/Time Reviewed 2/20/20

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.

DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**B7@6'**  
**2/18/2020 1:56:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y002242-01 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0B1906	KDK	02/19/2020	02/21/2020	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	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B1907	KDK	02/19/2020	02/19/2020	U
Surrogate: o-Terphenyl	78.0 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**B8@7'**  
**2/18/2020 3:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y002242-02 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	0.0766	0.00200	mg/kg	1	B0B1906	KDK	02/19/2020	02/19/2020	
Toluene	0.252	0.00200	"	"	"	KDK	"	"	
Ethylbenzene	0.0225	0.00200	"	"	"	KDK	"	"	
Xylenes, total	0.172	0.00200	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	2.14	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0B1907	KDK	02/19/2020	02/19/2020	U
Surrogate: o-Terphenyl	76.5 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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**Batch B0B1906 - EPA 5030 (soil)**

**Blank (B0B1906-BLK1)**

Prepared: 02/19/2020 Analyzed: 02/19/2020

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		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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**Batch B0B1906 - EPA 5030 (soil)**

**LCS (B0B1906-BS1)**

Prepared: 02/19/2020 Analyzed: 02/19/2020

Benzene	0.103	0.00200	mg/kg	0.100		103	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
Ethylbenzene	0.111	0.00200	"	0.100		111	70-130			
m,p-Xylene	0.230	0.00400	"	0.200		115	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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Batch B0B1906 - EPA 5030 (soil)

Matrix Spike (B0B1906-MS1)	Source: Y002242-01			Prepared: 02/19/2020 Analyzed: 02/19/2020						
Benzene	0.0902	0.00200	mg/kg	0.100	ND	90.2	70-130			
Toluene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
Ethylbenzene	0.0903	0.00200	"	0.100	ND	90.3	70-130			
m,p-Xylene	0.191	0.00400	"	0.200	ND	95.3	70-130			
o-Xylene	0.0910	0.00200	"	0.100	ND	91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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**Batch B0B1906 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B0B1906-MSD1)</b>	<b>Source: Y002242-01</b>			<b>Prepared: 02/19/2020 Analyzed: 02/19/2020</b>						
Benzene	0.0915	0.00200	mg/kg	0.100	ND	91.5	70-130	1.39	20	
Toluene	0.0966	0.00200	"	0.100	ND	96.6	70-130	0.475	20	
Ethylbenzene	0.0927	0.00200	"	0.100	ND	92.7	70-130	2.60	20	
m,p-Xylene	0.194	0.00400	"	0.200	ND	97.0	70-130	1.80	20	
o-Xylene	0.0928	0.00200	"	0.100	ND	92.8	70-130	2.00	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.14</i>		<i>"</i>	<i>0.125</i>		<i>108</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>100</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>104</i>	<i>70-130</i>			

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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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 B0B1907 - EPA 3580</b>										
<b>Blank (B0B1907-BLK1)</b>										
					Prepared: 02/19/2020 Analyzed: 02/19/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	20		"	25.0		79.7	50-150			

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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**Batch B0B1907 - EPA 3580**

**LCS (B0B1907-BS1)**

Prepared: 02/19/2020 Analyzed: 02/19/2020

Diesel (C10-C28)	879	50.0	mg/kg	1000		87.9	70-130			
Surrogate: o-Terphenyl	47		"	50.0		94.9	50-150			

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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**Batch B0B1907 - EPA 3580**

<b>Matrix Spike (B0B1907-MS1)</b>	<b>Source: Y002242-01</b>			Prepared: 02/19/2020 Analyzed: 02/19/2020						
Diesel (C10-C28)	1170	50.0	mg/kg	1000	ND	117	70-130			
Surrogate: o-Terphenyl	63		"	50.0		125	50-150			

Origins Laboratory, Inc.



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DCP Midstream  
 3026 4th Ave.  
 Greeley, CO 80631CO 80631

Chandler Cole  
 Project Number: [none]  
 Project: O'Connor 1

**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
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**Batch B0B1907 - EPA 3580**

<b>Matrix Spike Dup (B0B1907-MSD1)</b>	<b>Source: Y002242-01</b>			<b>Prepared: 02/19/2020 Analyzed: 02/19/2020</b>						
Diesel (C10-C28)	841	50.0	mg/kg	1000	ND	84.1	70-130	33.0	35	
Surrogate: o-Terphenyl	49		"	50.0		97.2	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.*

DCP Midstream  
3026 4th Ave.  
Greeley, CO 80631CO 80631

Chandler Cole  
Project Number: [none]  
Project: O'Connor 1

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**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

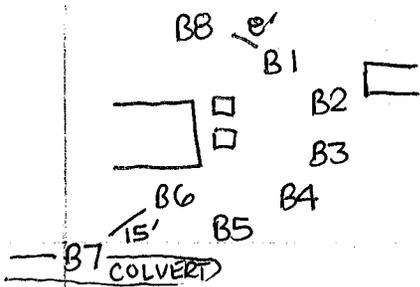
RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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B1 40.35344°N, 104.58693°W

0-3'	hydrovac	PID
3'	clayey sands, fine grained, med plasticity	2,030 ppm
4'	clayey sands, fine grained, med plasticity	1,895 ppm
5'	clays, fine grained, high plasticity	1,538 ppm
6'	" " "	2,120 ppm
7'	" " "	1,008 ppm TD

B2 40.35346°N, 104.58692°W

0-3'	hydrovac	
3'	clayey sands, fine grained, med. plasticity	21.6 ppm TD

B3 40.35340°N, 104.58694°W

0-3'	hydrovac	
3'	clayey sands, fine grained, med. plasticity	55.3 ppm TD

B4 40.35338°N, 104.58695°W

0-3'	hydrovac	
3'	clayey sands, fine grained, med. plasticity	400 ppm TD

B5 40.35337°N, 104.58699°W

0-3'	hydrovac	
3'	clayey sands, fine grained, med. plasticity	198 ppm TD

B6

0-3'	hydrovac	
3'	clayey sands, fine grained, med. plasticity	2,228 ppm
4'	clay, fine grained, high plasticity	1,595 ppm
5'	" " "	824 ppm TD

	40.35343°N, 104.58711°W	PID
B7		
1'	clayey sands, fine grained, med plasticity	4.85 ppm
2'	" " " "	5.8 ppm
3'	" " " "	5.2 ppm
4'	" " " "	5.8 ppm
5'	" " " "	4.8 ppm
6'	" " " "	3.9 ppm TD

	40.35345°N, 104.58702°W	
B8		
1'	clayey sands, fine grained, med plasticity	640 ppm
2'	" " " "	775 ppm
3'	" " " "	210 ppm
4'	sands, fine grained, no plasticity	175 ppm
5'	clayey sands, fine grained, med. plasticity	145 ppm
6'	" " " "	81 ppm
7'	" " " "	58 ppm TD