

**DCP O'Connor GAS PLANT CND SITE
FORM 27 SUPPLEMENTAL SUMMARY REPORT
(Doc # 402353521)**

ATTACHMENTS

Tables

- | | |
|---|------------------------------------|
| 1 | Summary of Soil Analytical Results |
|---|------------------------------------|

Figures

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

Appendices

- | | |
|---|-----------------------------------|
| A | Laboratory Analytical Reports |
| - | Origins Laboratory Job #: Y003336 |
| - | Origins Laboratory Job #: Y003372 |
| 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) ²	Comments
CND#1	11/15/2019	-	<0.0500	1.05	0.976	10.40	581	
CND#1	12/12/2019	-	0.003	0.004	<0.002	<0.002	<50.0	
CND#2	11/15/2019	-	4.04	37.2	3.20	24.7	521.2	
CND#2	12/12/2019	-	19.6	84.4	6.99	72.6	69.2	
CND#2	12/26/2019	-	18.0	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	-	1.54	5.58	0.626	4.52	<50.0	
CND#3	12/26/2019	-	14.2	37.9	2.86	20.9	<50.0	
BH01 @ 7'	2/5/2020	1,008	0.260	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	0.558	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
BH06A @ 11'	3/17/2020	1,260	2.90	14.8	2.1	15.3	551	
BH10 @ 5'	3/17/2020	1.5	<0.050	<0.050	<0.050	0.237	<50.0	
BH11 @ 2'	3/17/2020	1,131	0.196	0.548	0.0825	0.597	<50.0	
BH11 @ 8'	3/17/2020	330	<0.050	0.157	<0.050	0.118	<50.0	
BH12 @ 1'	3/18/2020	495	<0.050	<0.050	<0.050	<0.050	<50.0	
BH14 @ 1'	3/18/2020	391	<0.050	0.0730	<0.050	0.102	<50.0	
BH17 @ 1'	3/18/2020	555	<0.050	0.0895	<0.050	0.232	<50.0	
BH18B @ 1'	3/18/2020	930	3.24	17.0	1.66	19.7	466	
COGCC standards for Soil (mg/kg)⁽¹⁾			0.17	85	100	175	500	

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.

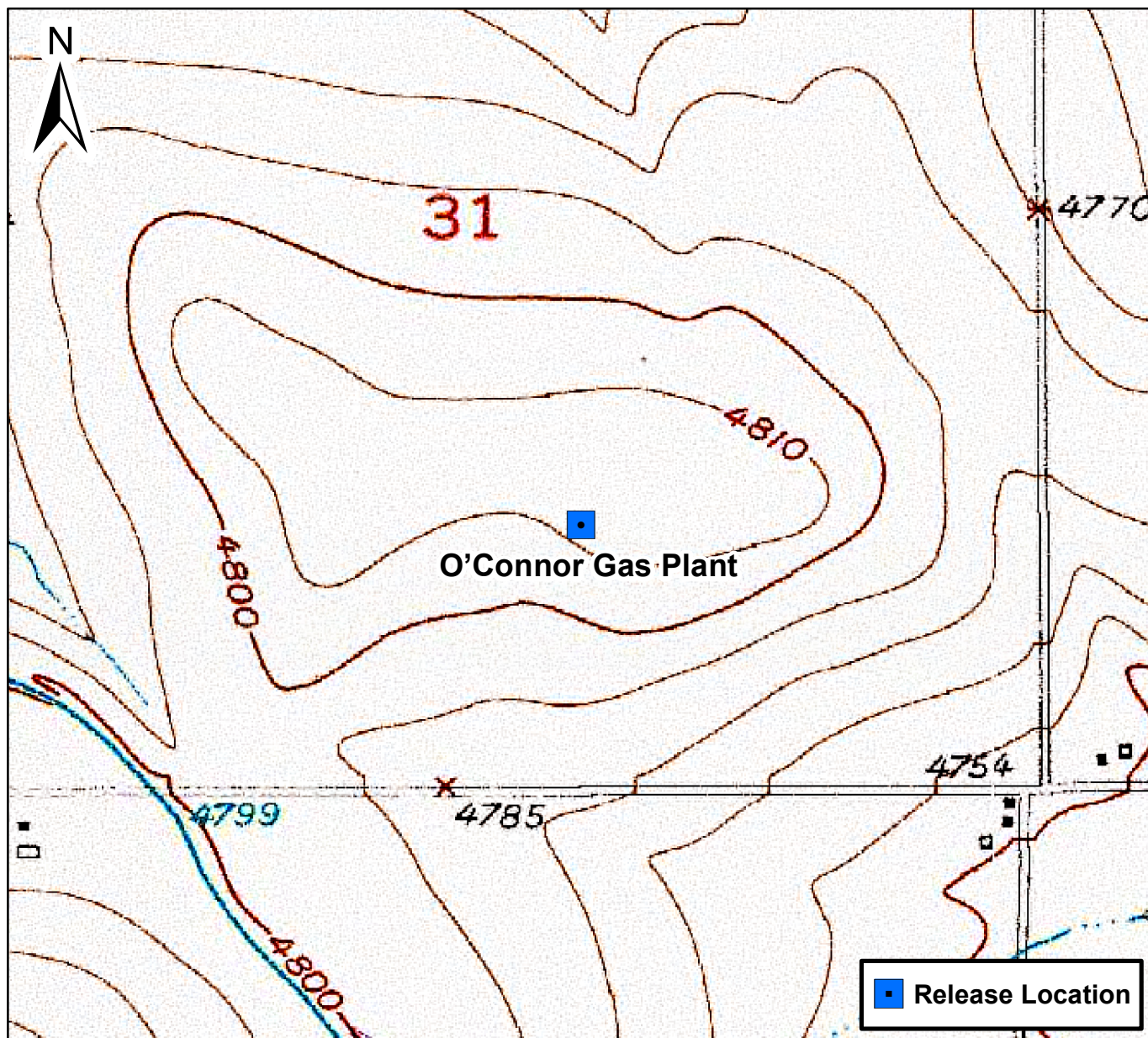
GRO - Gasoline range organics.

DRO - Diesel range organics.

mg/kg= Milligrams per kilogram.

PID - Photoionization Detector

ppm - Parts per million

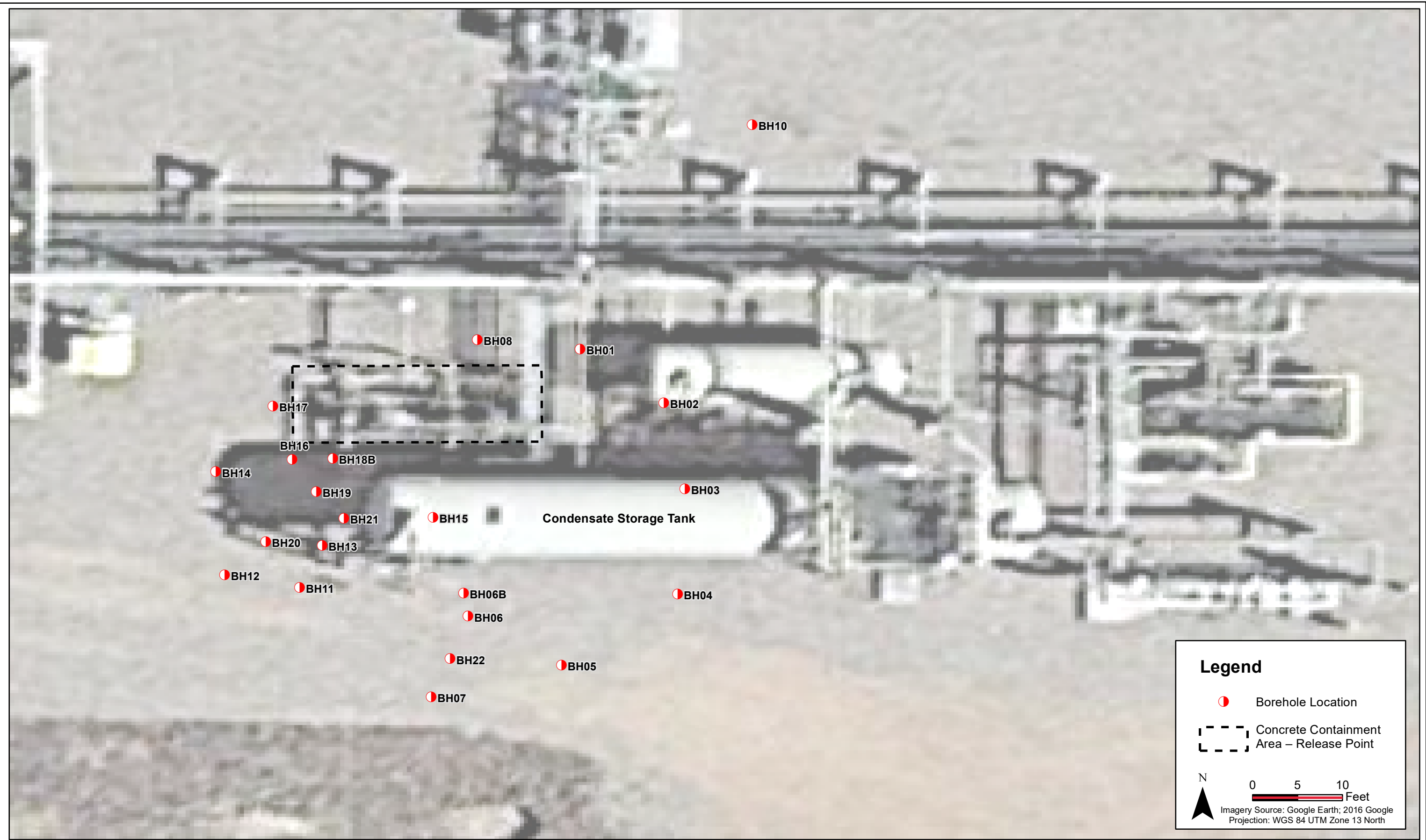


0 750 1,500 Feet

Figure 1

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





DATE:	March 2020
DESIGNED BY:	B. Humphrey
DRAWN BY:	J. Clonts



Tasman Geosciences, Inc.
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 Overview
Map

Figure
2



March 23, 2020

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - O'Connor I Gas Plant

Project Number - [none]

Attached are your analytical results for DCP - O'Connor I Gas Plant received by Origins Laboratory, Inc. March 17, 2020. This project is associated with Origins project number Y003336-01.

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

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

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

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

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

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



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH06A@11.0'	Y003336-01	Soil	March 17, 2020 15:15	03/17/2020 17:00
BH10@5.0'	Y003336-02	Soil	March 17, 2020 14:00	03/17/2020 17:00
BH11@2.0'	Y003336-03	Soil	March 17, 2020 15:30	03/17/2020 17:00
BH11@8.0'	Y003336-04	Soil	March 17, 2020 15:35	03/17/2020 17:00

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.

Jen Pellegrini For Noelle Doyle Mathis, President

Origins Laboratory, Inc.

Jose Pellegrini

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

Origins Laboratory

Origins Work Order: 100338

Checklist Completed by: JG

Date/time completed: 3/17/2020

Matrix(s) Received: (Check all that apply): ☒ Sol/Solid ☒ Water ☐ Other: _____

Cooler Number/Temperature: 1, 5.4 °C _____ °C _____ °C (Describe)

Thermometer ID: T003

Sample Receipt Checklist

Client: Tasman

Client Project ID: O'Connor I Gas Plant

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

Airbill #: N/A

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

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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): [Signature]

Date/Time Reviewed: 3/17/20

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

BH06A@11.0'

3/17/2020 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003336-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	2.90	0.0500	mg/kg	25	B0C1805	KDK	03/18/2020	03/20/2020	
Toluene	14.8	0.500	"	250	"	KDK	"	03/21/2020	
Ethylbenzene	2.09	0.0500	"	25	"	KDK	"	03/20/2020	
Xylenes, total	15.3	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	551	50.0	"	250	"	KDK	"	03/21/2020	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"		03/20/2020	
Surrogate: Toluene-d8	93.1 %	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	B0C1712	TEM	03/17/2020	03/19/2020	U
Surrogate: o-Terphenyl	76.8 %	50-150			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

BH10@5.0'

3/17/2020 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003336-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0C1805	KDK	03/18/2020	03/20/2020	U
Toluene	ND	0.0500	"	"	"	KDK	"	03/21/2020	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	03/20/2020	U
Xylenes, total	0.237	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	03/21/2020	U

Surrogate: 1,2-Dichloroethane-d4	86.2 %	70-130			"	"		03/20/2020	
Surrogate: Toluene-d8	96.0 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	97.5 %	70-130			"	"		"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0C1712	TEM	03/17/2020	03/19/2020	U
Surrogate: o-Terphenyl	61.4 %	50-150			"	"		"	

Origins Laboratory, Inc.



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6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

BH11@2.0'

3/17/2020 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003336-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.196	0.0500	mg/kg	25	B0C1703	KDK	03/17/2020	03/18/2020	
Toluene	0.548	0.0500	"	"	"	KDK	"	"	
Ethylbenzene	0.0825	0.0500	"	"	"	KDK	"	"	
Xylenes, total	0.597	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	19.9	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	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	B0C1712	KDK	03/17/2020	03/18/2020	U
Surrogate: o-Terphenyl	63.6 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

BH11@8.0'

3/17/2020 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003336-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0C1805	KDK	03/18/2020	03/20/2020	U
Toluene	0.157	0.0500	"	"	"	KDK	"	"	
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	0.118	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	5.00	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	86.0 %	70-130			"	"	"
Surrogate: Toluene-d8	95.1 %	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	B0C1712	TEM	03/17/2020	03/19/2020	U
Surrogate: o-Terphenyl	71.7 %	50-150			"	"	"		

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6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1703 - EPA 5030 (soil)										
Blank (B0C1703-BLK1)					Prepared: 03/17/2020 Analyzed: 03/17/2020					
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		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1703 - EPA 5030 (soil)

LCS (B0C1703-BS1)

Prepared: 03/17/2020 Analyzed: 03/17/2020

Benzene	0.0836	0.00200	mg/kg	0.100		83.6	70-130			
Toluene	0.0838	0.00200	"	0.100		83.8	70-130			
Ethylbenzene	0.0819	0.00200	"	0.100		81.9	70-130			
m,p-Xylene	0.172	0.00400	"	0.200		85.8	70-130			
o-Xylene	0.0849	0.00200	"	0.100		84.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1703 - EPA 5030 (soil)

Matrix Spike (B0C1703-MS1)		Source: Y003304-21			Prepared: 03/17/2020 Analyzed: 03/17/2020					
Benzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130			
Toluene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
Ethylbenzene	0.0967	0.00200	"	0.100	ND	96.7	70-130			
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.6	70-130			
o-Xylene	0.0932	0.00200	"	0.100	ND	93.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1703 - EPA 5030 (soil)

Matrix Spike Dup (B0C1703-MSD1)		Source: Y003304-21			Prepared: 03/17/2020 Analyzed: 03/17/2020					
Benzene	0.118	0.00200	mg/kg	0.100	ND	118	70-130	12.1	20	
Toluene	0.108	0.00200	"	0.100	ND	108	70-130	12.2	20	
Ethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130	13.8	20	
m,p-Xylene	0.221	0.00400	"	0.200	ND	110	70-130	12.2	20	
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130	12.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1712 - EPA 3580

Blank (B0C1712-BLK1)

Prepared: 03/17/2020 Analyzed: 03/18/2020

Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	22		"	25.0		87.2	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1712 - EPA 3580

LCS (B0C1712-BS1)

Prepared: 03/17/2020 Analyzed: 03/18/2020

Diesel (C10-C28)	827	50.0	mg/kg	1000		82.7	70-130			
Surrogate: o-Terphenyl	49		"	50.0		98.4	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1712 - EPA 3580

Matrix Spike (B0C1712-MS1)		Source: Y003328-01			Prepared: 03/17/2020 Analyzed: 03/18/2020					
Diesel (C10-C28)	706	50.0	mg/kg	1000	ND	70.6	70-130			
Surrogate: o-Terphenyl	37		"	50.0		74.4	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.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1712 - EPA 3580

Matrix Spike Dup (B0C1712-MSD1)		Source: Y003328-01			Prepared: 03/17/2020 Analyzed: 03/18/2020					
Diesel (C10-C28)	923	50.0	mg/kg	1000	ND	92.3	70-130	26.6	35	
Surrogate: o-Terphenyl	53		"	50.0		106	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1805 - EPA 5030 (soil)										
Blank (B0C1805-BLK1)					Prepared: 03/18/2020 Analyzed: 03/20/2020					
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		98.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1805 - EPA 5030 (soil)										
LCS (B0C1805-BS1)					Prepared: 03/18/2020 Analyzed: 03/20/2020					
Benzene	0.109	0.00200	mg/kg	0.100		109	70-130			
Toluene	0.0981	0.00200	"	0.100		98.1	70-130			
Ethylbenzene	0.0949	0.00200	"	0.100		94.9	70-130			
m,p-Xylene	0.190	0.00400	"	0.200		94.8	70-130			
o-Xylene	0.0904	0.00200	"	0.100		90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1805 - EPA 5030 (soil)

Matrix Spike (B0C1805-MS1)		Source: Y003338-01			Prepared: 03/18/2020 Analyzed: 03/20/2020					
Benzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
Toluene	0.0902	0.00200	"	0.100	ND	90.2	70-130			
Ethylbenzene	0.0919	0.00200	"	0.100	ND	91.9	70-130			
m,p-Xylene	0.182	0.00400	"	0.200	ND	90.8	70-130			
o-Xylene	0.0891	0.00200	"	0.100	ND	89.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1805 - EPA 5030 (soil)

Matrix Spike Dup (B0C1805-MSD1)		Source: Y003338-01			Prepared: 03/18/2020 Analyzed: 03/20/2020					
Benzene	0.127	0.00200	mg/kg	0.100	ND	127	70-130	18.6	20	
Toluene	0.110	0.00200	"	0.100	ND	110	70-130	19.5	20	
Ethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130	20.5	20	QR-03
m,p-Xylene	0.222	0.00400	"	0.200	ND	111	70-130	20.0	20	
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130	20.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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.

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.



March 19, 2020

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - O'Connor I Gas Plant

Project Number - [none]

Attached are your analytical results for DCP - O'Connor I Gas Plant received by Origins Laboratory, Inc. March 18, 2020. This project is associated with Origins project number Y003372-01.

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

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

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

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

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

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



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH12@1.0'	Y003372-01	Soil	March 18, 2020 15:00	03/18/2020 17:05
BH14@1.0'	Y003372-02	Soil	March 18, 2020 15:10	03/18/2020 17:05
BH17@1.0'	Y003372-03	Soil	March 18, 2020 15:15	03/18/2020 17:05
BH18B@1.0'	Y003372-04	Soil	March 18, 2020 15:20	03/18/2020 17:05

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

Origins Laboratory, Inc.

Jeff Pellipini

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

Origins Laboratory

Sample Receipt Checklist

Origins Work Order: Y003372

Client: Tasman

Client Project ID: O'Connor I Gas Plant

Checklist Completed by: JG

Date/time completed: 3/18/2020

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

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 7.8 °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⁾ ?		<input checked="" type="checkbox"/>		<u>Some Dry</u>
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> ¾ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcooled analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
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): [Signature]

Date/Time Reviewed: 3/18/20

Origins Laboratory, Inc.

Jefe Pellegrini

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

BH12@1.0'

3/18/2020 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003372-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	BOC1812	KDK	03/18/2020	03/18/2020	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	111 %	70-130	"	"	"
Surrogate: Toluene-d8	107 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	BOC1811	TEM	03/18/2020	03/18/2020	U
Surrogate: o-Terphenyl	60.1 %	50-150			"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

BH14@1.0'

3/18/2020 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003372-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0C1812	KDK	03/18/2020	03/18/2020	U
Toluene	0.0730	0.0500	"	"	"	KDK	"	"	
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	0.102	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

109 % 70-130
117 % 70-130
103 % 70-130

" "
" "
" "

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0C1811	TEM	03/18/2020	03/18/2020	U
Surrogate: o-Terphenyl	62.6 %	50-150			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

BH17@1.0'

3/18/2020 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003372-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B0C1812	KDK	03/18/2020	03/18/2020	U
Toluene	0.0895	0.0500	"	"	"	KDK	"	"	
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	0.232	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	120 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0C1811	TEM	03/18/2020	03/18/2020	U
Surrogate: o-Terphenyl	63.8 %	50-150			"	"	"		

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

BH18B@1.0'
3/18/2020 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y003372-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	3.24	0.0500	mg/kg	25	B0C1812	KDK	03/18/2020	03/19/2020
Toluene	17.0	0.500	"	250	"	KDK	"	03/18/2020
Ethylbenzene	1.66	0.0500	"	25	"	KDK	"	03/19/2020
Xylenes, total	19.7	0.0500	"	"	"	KDK	"	"
Gasoline Range Hydrocarbons	362	5.00	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
Surrogate: Toluene-d8	127 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"

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

Diesel (C10-C28)	104	50.0	mg/kg	1	B0C1811	TEM	03/18/2020	03/18/2020
Surrogate: o-Terphenyl	63.6 %	50-150			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1811 - EPA 3580

Blank (B0C1811-BLK1)

Prepared: 03/18/2020 Analyzed: 03/18/2020

Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	18		"	25.0		73.0	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1811 - EPA 3580

LCS (B0C1811-BS1)

Prepared: 03/18/2020 Analyzed: 03/18/2020

Diesel (C10-C28)	864	50.0	mg/kg				70-130			
Surrogate: o-Terphenyl	53		"	50.0		106	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1811 - EPA 3580

Matrix Spike (B0C1811-MS1)		Source: Y003363-02			Prepared: 03/18/2020 Analyzed: 03/18/2020					
Diesel (C10-C28)	815	50.0	mg/kg		ND		70-130			
Surrogate: o-Terphenyl	47		"	50.0		93.9	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1811 - EPA 3580

Matrix Spike Dup (B0C1811-MSD1)		Source: Y003363-02			Prepared: 03/18/2020 Analyzed: 03/18/2020					
Diesel (C10-C28)	865	50.0	mg/kg		ND		70-130	5.98	35	
Surrogate: o-Terphenyl	51		"	50.0		103	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1812 - EPA 5030 (soil)										
Blank (B0C1812-BLK1)					Prepared: 03/18/2020 Analyzed: 03/18/2020					
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	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1812 - EPA 5030 (soil)										
LCS (B0C1812-BS1)					Prepared: 03/18/2020 Analyzed: 03/18/2020					
Benzene	0.120	0.00200	mg/kg	0.100		120	70-130			
Toluene	0.118	0.00200	"	0.100		118	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
m,p-Xylene	0.236	0.00400	"	0.200		118	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.8	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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1812 - EPA 5030 (soil)

Matrix Spike (B0C1812-MS1)		Source: Y003371-01			Prepared: 03/18/2020 Analyzed: 03/18/2020					
Benzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
Toluene	0.108	0.00200	"	0.100	0.0105	98.0	70-130			
Ethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
m,p-Xylene	0.221	0.00400	"	0.200	ND	110	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

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 B0C1812 - EPA 5030 (soil)

Matrix Spike Dup (B0C1812-MSD1)		Source: Y003371-01			Prepared: 03/18/2020 Analyzed: 03/18/2020					
Benzene	0.0996	0.00200	mg/kg	0.100	ND	99.6	70-130	2.66	20	
Toluene	0.121	0.00200	"	0.100	0.0105	111	70-130	11.2	20	
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	5.95	20	
m,p-Xylene	0.209	0.00400	"	0.200	ND	104	70-130	5.58	20	
o-Xylene	0.0995	0.00200	"	0.100	ND	99.5	70-130	5.30	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		114	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - O'Connor I Gas Plant

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

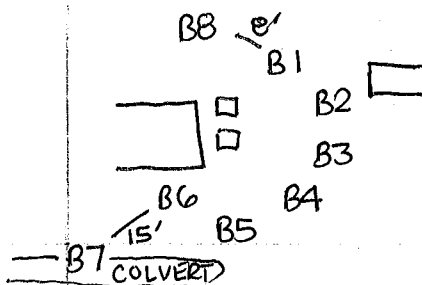
RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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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

B7 40.35343°N, 104.58711°W PID

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

B8 40.35345°N, 104.58702°W

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



Borehole Logging Form

SITE NAME: DCP O'Connor I

CLIENT NAME: DCP Midstream

Date Started: 3/17/20

Location: BH06A

Date Completed: 3/17/20

TOC Elevation: (NA)

DTW: NA

Type of Drill: Hand Auger

Geologist: J. Carrington

Bit Size: 2"

Project Manager: B. Humphrey

Drilling Company: Tasman Geosciences

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1			0				Gravel, road base, silty sands
2			1				Sandy silt w/ clay moist, dark brown light TPT odor, w/ gravels as above, less gravels
3			1				As above
4			100	809		ML	Clayey silt, dark brown, light moisture moderate TPT odor, no stain.
5			100	927		ML	As above
6			100	747		ML	As above, pa
7			100	908		ML	clayey silt, brown, non plastic, moist/ light, cohesive, TPT odor, no stain
8			100	951		ML	As above
9			100	920		ML	clayey silt, yellow brown, low plasticity, light moisture, iron staining, TPT odor
10			50	1260	yes @ 11.0' 15-15	CL	clay, grey, yellow brown, low moisture, crumbly, low plastic, hard, TPT odor.
11			0				Note: No recovery beyond 11'
12							Refusal of hand auger at hard - clay pen.
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24							
25							

Previously removed via hydraulic
1 gen observations



Borehole Logging Form

SITE NAME: O'Connor I / DCP

CLIENT NAME: DCP Midstream

Date Started: 3/17/20

Location: BH 10 (North of Pipe Rack)

Date Completed: 3/17/20

TOC Elevation: NA

DTW: NA

Type of Drill: Hand Auger

Geologist: J. Carrington

Bit Size: 2"

Project Manager: B. Humphrey

Drilling Company: Tasman Geosciences

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1			100	1.5		GM	Gravels, road base, rock, silty sands
2				1.0		ML	Dark Brown, moist, no odor
3				2.1		ML	Sandy silt w/ clay, Brown to dark brown, mud moisture,
4				2.0		ML	clayey silt, fine sands, plastic, moist, no odor, isolated rock
5				1.5	Yes @ 5.0'	ML	As above
6				1.5	Yes @ 5.0' At 14.0m (46')		Note: Rocks > 2" dispersed in soils preventing hand augering
7							- Attempted 5' locations in close proximity, 5' logs were deepest extent.
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Borehole Logging Form

SITE NAME: O'Connor I CLIENT NAME: DCP Midstream

Date Started: 3/17/20 Location: BH 11
Date Completed: 3/17/20 TOC Elevation: (NA) DTW: NA
Type of Drill: Hand Auger Geologist: J. Carrington
Bit Size: 2" Project Manager: B. Humphrey

Drilling Company: Tasman Geosciences

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1			100	575		GM	Gravels, road base fill, rock, silty sands, moist, TPH odor
2				1131	yes @ 2.0'	ML	Sandy silty, w/ clay, moist, brown, TPH odor, no stain.
3				153		ML	As above, no odor TPH,
4				195		ML	As above, TPH odor
5				327		ML/CL	clayey silty, Brown, low plasticity, light TPH odor
6				210		ML/CL	As above no TPH odor
7				321		ML/CL	As above
8				330	yes @ 8.0'	ML/CL	As above
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Borehole Logging Form

SITE NAME: O'Connor I

CLIENT NAME: DCP Midstream

Date Started: 3/18/20

Location: BH 21

Date Completed: 3/18/20

TOC Elevation: NA

DTW: NA

Type of Drill: Hand Auger

Geologist: J. Carrington

Bit Size: 2"

Project Manager: B. Humphrey

Drilling Company: Tasman Geosciences

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1			100	465		GM	Gravels, rock base, fill, rock silty sands, moist TPH odor
2				614		ML	Sandy silts, w/ clay, moist, brown/Dark TPH odor
3				338		ML	As above
4				796		ML/CL	clayey silt, Brown, moist light moist, TPH odor
5				855		ML/CL	As above
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