

**DCP – MEWBOURN GAS PLANT SITE
FORM 27 SUPPLEMENTAL SUMMARY REPORT**

ATTACHMENTS

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| 2 | PAH Soil Sample Analytical Results Summary Table – January 2021 |
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Table 1
Mewbourn Gas Plant
Table 915 - Volatile Organic Compound Soil Sample Results
Weld County, Colorado

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)		Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	1,3,5-Trimethylbenzene (mg/kg)	Naphthalene (mg/kg)		TPH (mg/kg)
COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ^(1 & 2) (mg/kg)	-	-	-		0.0026 (M)	0.69 (M)	0.78 (M)	9.9 (M)	0.0081 (R)	0.0087 (R)	0.0038 (R)		500
TP05 @ 10'	1/21/2021	Y101215	524.6		0.670	<0.500	2.08	13.8	-	-	-		764
TP05 @ 12'	1/21/2021	Y101215	726.1		43.5	111	28.3	232	53	<0.500	1.62		5210
TP05 @ 20'	1/21/2021	Y101215	1106.0		0.320	<0.0500	1.2	7.72	-	-	-		510
TP06 @ 10'	1/21/2021	Y101215	1518.0		0.35	<0.0500	0.116	<0.0500	-	-	-		1066
TP06 @ 12'	1/21/2021	Y101215	2116.0		0.266	0.112	1.79	2.34	-	-	-		2280
TP06 @ 20'	1/21/2021	Y101215	1590.0		2.98	0.535	21.7	156	-	-	-		8190

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021.

2). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021. The letter “(R)” following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter “(M)” following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

TPH - Total volatile (C6 - C10) and extractable (C10 - C36) hydrocarbons

mg/kg= Milligrams per kilogram.

PPM - Parts per million

PID - Photoionization Detector

Bold values indicate an exceedance of the COGCC soil standards for the Site.

Table 915 note - If the method detection limit (“MDL”) or practical quantitation limit (“PQL”) for a pollutant is higher (less stringent) than a threshold concentration listed in Table 915-1, the Director may allow an Operator to substitute the MDL or PQL for the concentration listed in Table 915-1.

Table 2
Mewbourn Gas Plant
Table 915 - Polyaromatic Hydrocarbon (PAHs) Soil Sample Results
Weld County, Colorado

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benz(a)anthracene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Benzo(a)pyrene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3-cd)pyrene (mg/kg)	1-methylnaphthalene (mg/kg)	2-methylnaphthalene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ^(1 & 2) (mg/kg)	-	-	-	0.55 (R)	5.8 (R)	0.011 (R)	0.3 (R)	2.9 (R)	0.24 (M)	9 (R)	0.096 (R)	8.9 (R)	0.54 (R)	0.98 (R)	0.006 (R)	0.019 (R)	0.0038 (R)	1.3 (R)
TP05 @ 10'	1/21/2021	Y101215	524.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05 @ 12'	1/21/2021	Y101215	726.1	0.535	<0.00889	0.185	<0.00889	<0.00889	<0.00889	<0.00889	<0.00889	<0.00889	0.914	<0.00889	5.5	4.5	1.62	0.0739
TP05 @ 20'	1/21/2021	Y101215	1106.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06 @ 10'	1/21/2021	Y101215	1518.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06 @ 12'	1/21/2021	Y101215	2116.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06 @ 20'	1/21/2021	Y101215	1590.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021.
2). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021. The letter “(R)” following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter “(M)” following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

TPH - Total volatile (C6 - C10) and extractable (C10 - C36) hydrocarbons
mg/kg= Milligrams per kilogram.
PPM - Parts per million
PID - Photoionization Detector

Bold values indicate an exceedance of the COGCC soil standards for the Site.
Table 915 note - If the method detection limit (“MDL”) or practical quantitation limit (“PQL”) for a pollutant is higher (less stringent) than a threshold concentration listed in Table 915-1, the Director may allow an Operator to substitute the MDL or PQL for the concentration listed in Table 915-1.

Table 3
Mewbourn Gas Plant
Table 915 - General Chemistry and Inorganic Soil Sample Results
Weld County, Colorado

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)		pH (pH units)	Specific Conductance (EC) (mmhos/cm)	Sodium Adsorption Ratio (SAR)	Boron (mg/l)		Arsenic ³ (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ^(1 & 2) (mg/kg)	-	-	-		6-8.3	<4 mmhos/cm	<6	2 (mg/L)		0.29 (M)	82 (M)	0.38 (M)	0.00067 (R)	46 (M)	14 (M)	26 (R)	0.26 (M)	0.8 (R)	370 (R)
TP05 @ 10'	1/21/2021	Y101215	524.6		-	-	-	-		-	-	-	-	-	-	-	-	-	-
TP05 @ 12'	1/21/2021	Y101215	726.1		-	-	-	-		1.81	60.500	0.075	<1.0	5.630	4.610	4.970	0.282	0.014	23.800
TP05 @ 20'	1/21/2021	Y101215	1106.0		-	-	-	-		-	-	-	-	-	-	-	-	-	-
TP06 @ 10'	1/21/2021	Y101215	1518.0		-	-	-	-		-	-	-	-	-	-	-	-	-	-
TP06 @ 12'	1/21/2021	Y101215	2116.0		-	-	-	-		-	-	-	-	-	-	-	-	-	-
TP06 @ 20'	1/21/2021	Y101215	1590.0		6.9	0.695	-	-		-	-	-	-	-	-	-	-	-	-

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021.

2). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021. The letter “(R)” following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter “(M)” following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

3). The Arsenic concentration from soil sample TP05@12’ is within known background levels for soil in Weld County, Colorado

TPH - Total volatile (C6 - C10) and extractable (C10 - C36) hydrocarbons

mg/kg= Milligrams per kilogram.

PPM - Parts per million

PID - Photoionization Detector

Bold values indicate an exceedance of the COGCC soil standards for the Site.

Table 915 note - If the method detection limit (“MDL”) or practical quantitation limit (“PQL”) for a pollutant is higher (less stringent) than a threshold concentration listed in Table 915-1, the Director may allow an Operator to substitute the MDL or PQL for the concentration listed in Table 915-1.

TABLE 4
SITE SPECIFIC SOIL SAMPLING AND ANALYSIS PLAN
DCP MIDSTREAM - MEWBOURN GAS PLANT

Site Specific Constituent of Concern for Soil Analysis	COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ^(1 & 2)
Benzene (mg/kg)	0.0026 (M)
Toluene (mg/kg)	0.69 (M)
Ethylbenzene (mg/kg)	0.78 (M)
Total Xylenes (mg/kg)	9.9 (M)
1,2,4 Trimethylbenzene (mg/kg)	0.0081 (R)
TPH (mg/kg)	500
Benz(a)anthracene (mg/kg)	0.011 (R)
Fluorene (mg/kg)	0.54 (R)
1-methylnaphthalene (mg/kg)	0.006 (R)
2-methylnaphthalene (mg/kg)	0.019 (R)
Naphthalene (mg/kg)	0.0038 (R)
EC ³ (mmhos/cm)	<4
SAR ³	<6
pH ³ (SU)	6 - 8.3
Boron ³ (mg/l)	2

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021.

2). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021. The letter "(R)" following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter "(M)" following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

3). EC, SAR, pH, and boron will be analyzed from soil samples collected in the root bearing zone subsequent to invasive remediation activities and prior to reclamation planning.

TPH - Total volatile (C₆ - C₁₀) and extractable (C₁₀ - C₃₆) hydrocarbons

EC - Electrical Conductivity

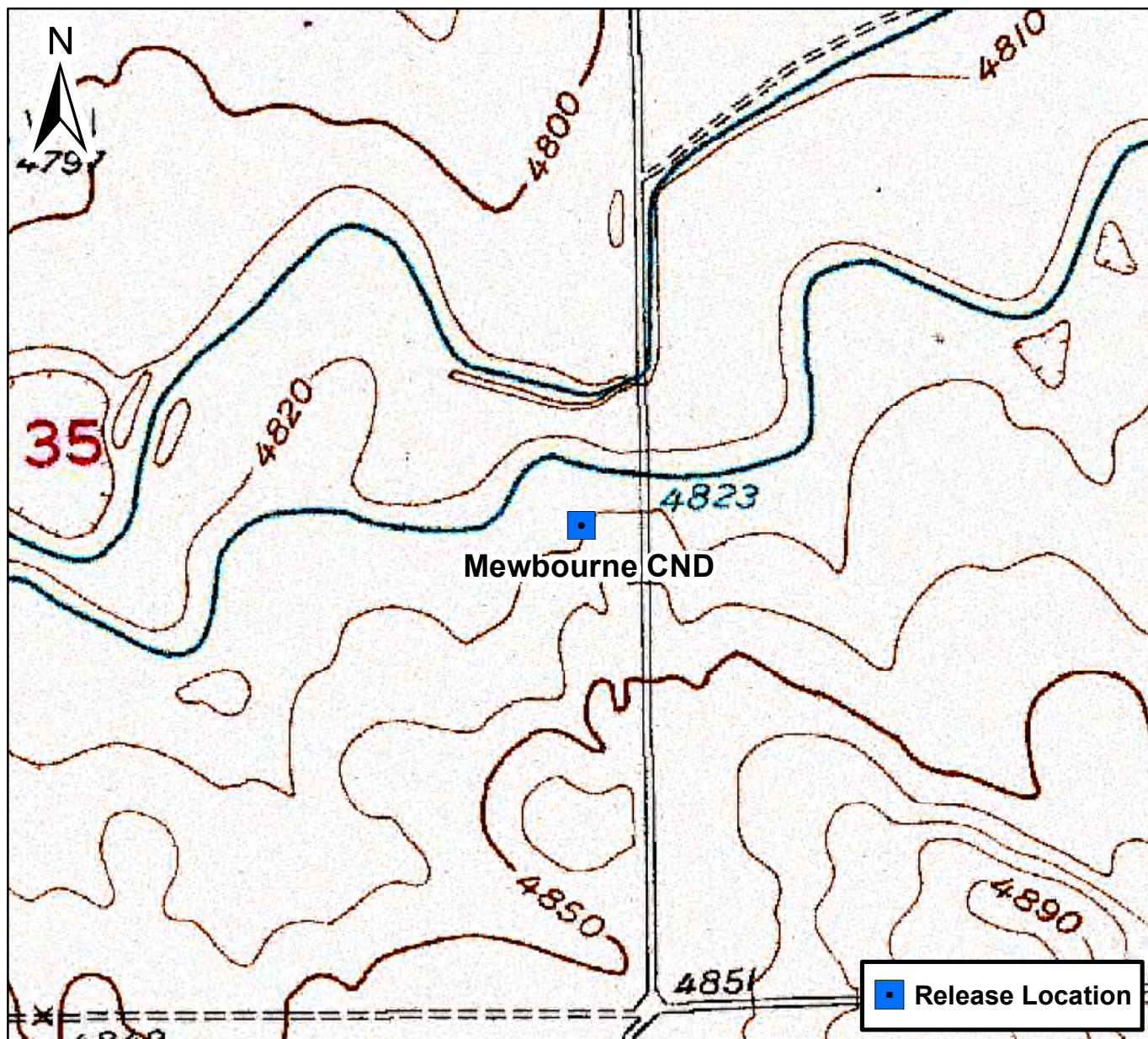
SAR - Sodium adsorption ratio

mg/kg= Milligrams per kilogram.

mmhos/cm - millimhos per centimeter

SU - Standard units

mg/l - Milligrams per liter

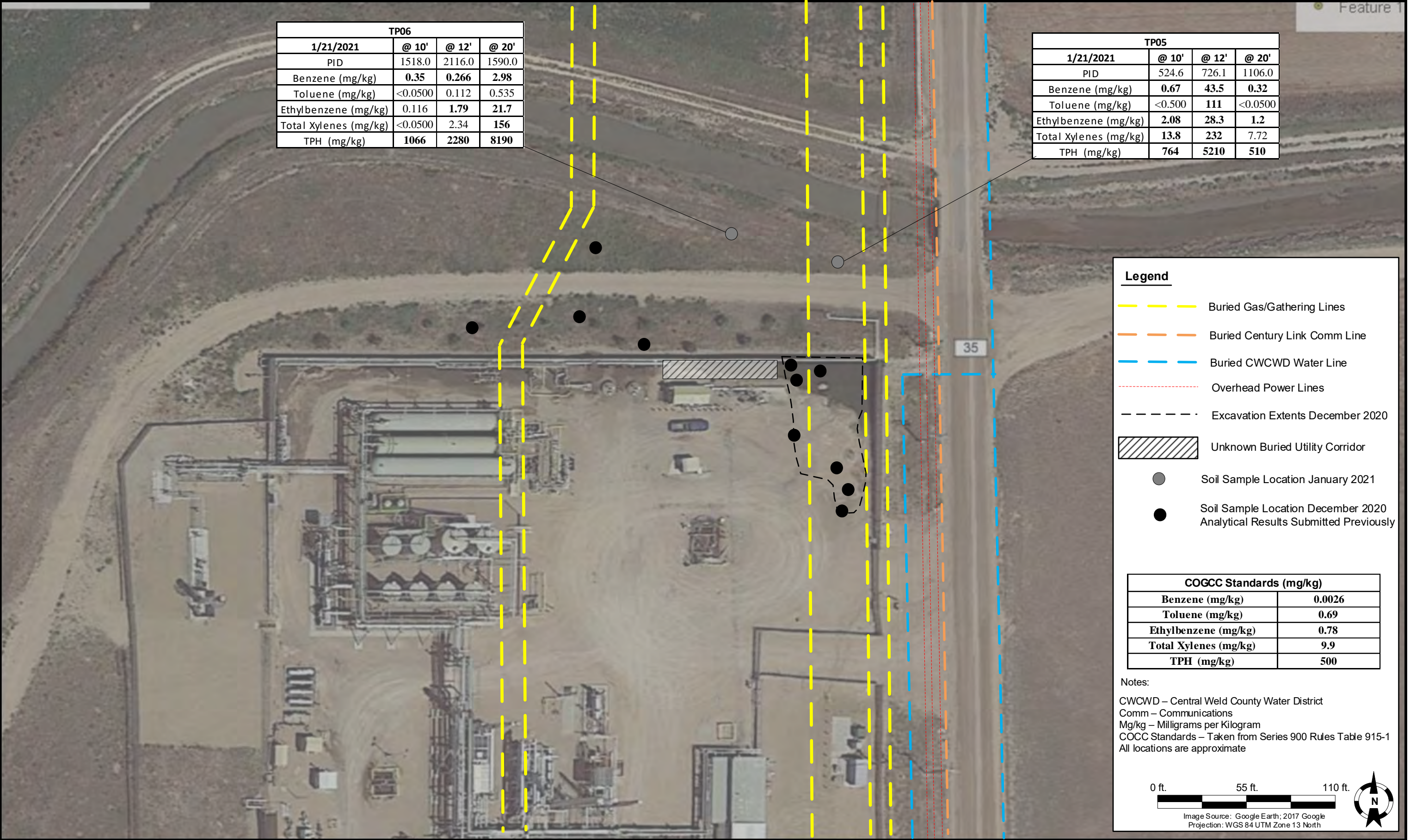


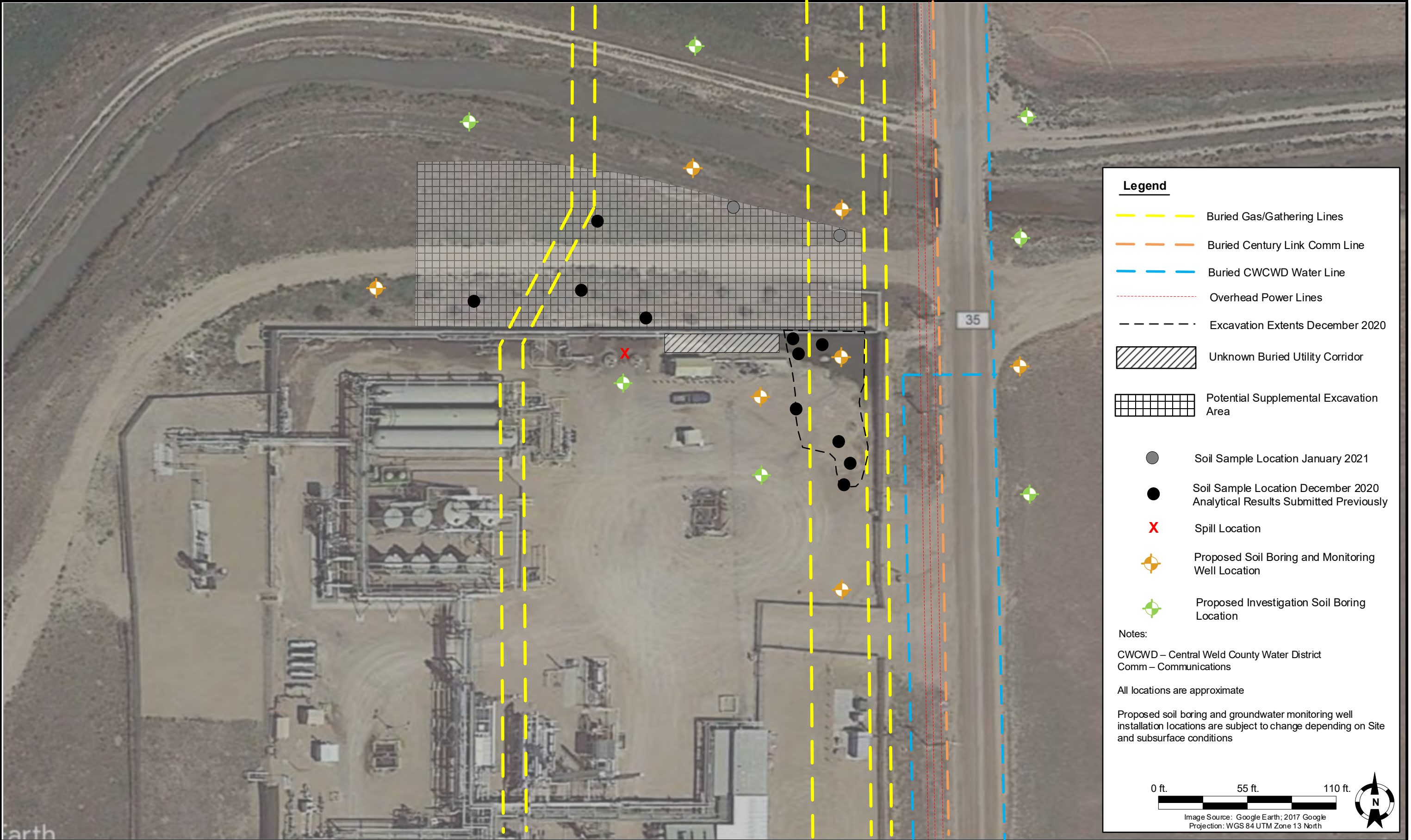
0 750 1,500 Feet

Figure 1

Site Location Map
Mewbourn CND
NESE S35 T4N R66W
Weld County, Colorado









February 02, 2021

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - Mewbourne

Project Number - [none]

Attached are your analytical results for DCP - Mewbourne received by Origins Laboratory, Inc. January 21, 2021. This project is associated with Origins project number Y101215-01.

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 - Mewbourne

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP05@10'	Y101215-01	Soil	January 21, 2021 9:16	01/21/2021 13:56
TP05@12'	Y101215-02	Soil	January 21, 2021 9:20	01/21/2021 13:56
TP05@20'	Y101215-03	Soil	January 21, 2021 9:34	01/21/2021 13:56
TP06@10'	Y101215-04	Soil	January 21, 2021 10:02	01/21/2021 13:56
TP06@12'	Y101215-05	Soil	January 21, 2021 10:06	01/21/2021 13:56
TP06@20'	Y101215-06	Soil	January 21, 2021 10:20	01/21/2021 13:56

Per the email from Jeb Watts on 01/26/21, PAH and 915 metals were added to TP05@12'. Saturated paste pH and EC were added to TP06@20'.

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne



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LABORATORY, INC

page 1 of 1

Client: DCP/Tasman
Address: 6855 W 119th Ave. Broomfield, CO 80020
Telephone Number: 303-487-1228
Email Address: B.Humphrey@tasman-geo.com
S.West@originslab.com

Project Manager: Brian Humphrey / Steve West
Project Name: ~~DCP~~ Mewbourne
Project Number: -
Samples Collected By: GB

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
TP05 @ 10'	1/21/21	0916	1	X					X		X OTEX TPH (Geo + DO)	1
TP05 @ 12'		0920										2
TP05 @ 20'		0934										3
TP06 @ 10'		1002										4
TP06 @ 12'		1006										5
TP06 @ 20'		1020		X				X				6
												7
												8
												9
												10
Relinquished By: 	Date: 1/21/21	Time: 1400		Received By: 		Date: 1/21/21	Time: 1346	Turnaround Time:		Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>		
Relinquished By:	Date:	Time:		Received By:		Date: 1/21/21	Time: 1356					

Date Results Needed

4/9

Origins Laboratory, Inc.

Jordan A. Merrill

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y101215

Client: Tasman

Client Project ID: Mewbourne

Checklist Completed by: SG

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

Date/time completed: 1/21/21

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.9 °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"/>	<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 ⁽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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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) jm

1-22-21
Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Merrill

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

TP05@10'
1/21/2021 9:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y101215-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.670	0.500	mg/kg	250	B1A2101	TEM	01/21/2021	01/21/2021	
Toluene	ND	0.500	"	"	"	TEM	"	"	U
Ethylbenzene	2.08	0.500	"	"	"	TEM	"	"	
Xylenes, total	13.8	0.500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	429	50.0	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.4 %	70-130			"	"	"	

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

Diesel (C10-C28)	335	50.0	mg/kg	1	B1A2102	KDK	01/21/2021	01/22/2021	
Surrogate: o-Terphenyl	110 %	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 - Mewbourne

TP05@12'
1/21/2021 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y101215-02 (Soil)

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

Diesel (C10-C28)	2220	50.0	mg/kg	1	B1A2102	KDK	01/21/2021	01/22/2021
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Surrogate: o-Terphenyl	109 %	50-150			"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	53.0	0.500	mg/kg	250	B1A2101	TEM	01/21/2021	01/21/2021	
1,3,5-Trimethylbenzene	ND	0.500	"	"	"	TEM	"	"	R-01, U
Benzene	43.5	0.500	"	"	"	TEM	"	"	
Ethylbenzene	28.3	0.500	"	"	"	TEM	"	"	
Toluene	111	5.00	"	2500	"	TEM	"	01/22/2021	
Gasoline Range Hydrocarbons	2990	50.0	"	250	"	TEM	"	01/21/2021	
Xylenes, total	233	5.00	"	2500	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130			"	"	"
Surrogate: Toluene-d8	120 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"

Hexavalent Chromium by 7196A

Chromium, Hexavalent	ND	1	mg/Kg	2	L533424		01/21/2021	01/27/2021
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PAH by 8270D SIM

1-Methylnaphthalene	5.5	0.00889	mg/Kg	1	L533436		01/27/2021	01/27/2021
2-Methylnaphthalene	4.53	0.00889	"	"	"		"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

TP05@12'

1/21/2021 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y101215-02 (Soil)

PAH by 8270D SIM

Acenaphthene	0.535	0.00889	mg/Kg	1	L533436		01/27/2021	01/27/2021	
Anthracene	ND	0.00889	"	"	"		"	"	
Benzo(a)anthracene	0.185	0.00889	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00889	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00889	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00889	"	"	"		"	"	
Chrysene	ND	0.00889	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00889	"	"	"		"	"	
Fluoranthene	ND	0.00889	"	"	"		"	"	
Fluorene	0.914	0.00889	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00889	"	"	"		"	"	
Naphthalene	1.62	0.00889	"	"	"		"	"	
Pyrene	0.0739	0.00889	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	87.6 %	33-115		"	"	"
Surrogate: 4-Terphenyl-d14	93.7 %	33-122		"	"	"
Surrogate: Nitrobenzene-d5	82.6 %	29-110		"	"	"

Total Metals by EPA 6020B

Arsenic	1.81	0.25	mg/Kg	5	L533959	02/01/2021	02/01/2021	
Barium	60.5	0.5	"	10	"	"	"	
Cadmium	0.0749	0.25	"	5	"	"	"	J

Origins Laboratory, Inc.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

TP05@12'

1/21/2021 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y101215-02 (Soil)

Total Metals by EPA 6020B

Copper	5.63	0.25	mg/Kg	5	L533959		02/01/2021	02/01/2021	
Lead	4.61	0.25	"	"	"		"	"	
Nickel	4.97	0.25	"	"	"		"	"	
Selenium	0.282	0.25	"	"	"		"	"	
Silver	0.014	0.25	"	"	"		"	"	J
Zinc	23.8	2.5	"	"	"		"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

TP05@20'
1/21/2021 9:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y101215-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.320	0.0500	mg/kg	25	B1A2101	TEM	01/21/2021	01/21/2021	
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	1.20	0.0500	"	"	"	TEM	"	"	
Xylenes, total	7.72	0.0500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	319	5.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	118 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130			"	"	"	

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

Diesel (C10-C28)	191	50.0	mg/kg	1	B1A2102	KDK	01/21/2021	01/22/2021	
Surrogate: o-Terphenyl	109 %	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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

TP06@10'

1/21/2021 10:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y101215-04 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.350	0.0500	mg/kg	25	B1A2101	TEM	01/21/2021	01/22/2021	
Toluene	ND	0.0500	"	"	"	TEM	"	"	U
Ethylbenzene	0.116	0.0500	"	"	"	TEM	"	"	
Xylenes, total	ND	0.0500	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	367	50.0	"	250	"	TEM	"	01/21/2021	

Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130			"	"		01/22/2021	
Surrogate: Toluene-d8	127 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	112 %	70-130			"	"		"	

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

Diesel (C10-C28)	699	50.0	mg/kg	1	B1A2102	KDK	01/21/2021	01/22/2021	
Surrogate: o-Terphenyl	102 %	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 - Mewbourne

TP06@12'

1/21/2021 10:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y101215-05 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	0.266	0.0500	mg/kg	25	B1A2101	TEM	01/21/2021	01/21/2021
Toluene	0.112	0.0500	"	"	"	TEM	"	"
Ethylbenzene	1.79	0.0500	"	"	"	TEM	"	"
Xylenes, total	2.34	0.0500	"	"	"	TEM	"	"
Gasoline Range Hydrocarbons	1250	50.0	"	250	"	TEM	"	01/22/2021

Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130			"	"		01/21/2021
Surrogate: Toluene-d8	107 %	70-130			"	"		01/22/2021
Surrogate: 4-Bromofluorobenzene	129 %	70-130			"	"		01/21/2021

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

Diesel (C10-C28)	1030	50.0	mg/kg	1	B1A2102	KDK	01/21/2021	01/22/2021
Surrogate: o-Terphenyl	102 %	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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

TP06@20'

1/21/2021 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y101215-06 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	2.98	0.500	mg/kg	250	B1A2101	TEM	01/21/2021	01/21/2021	
Toluene	0.535	0.500	"	"	"	TEM	"	"	
Ethylbenzene	21.7	0.500	"	"	"	TEM	"	"	
Xylenes, total	156	0.500	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	3730	50.0	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	131 %	70-130			"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	4460	50.0	mg/kg	1	B1A2102	KDK	01/21/2021	01/22/2021	
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Surrogate: o-Terphenyl	123 %	50-150			"	"	"	"	
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pH in Soil by EPA 9045D

pH	6.91		pH Units	1	B1A2707	DJL	01/27/2021	01/27/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.695	0.00500	mmhos/cm	"	B1A2708	DJL	01/27/2021	01/27/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

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 B1A2101 - EPA 5030 (soil)										
Blank (B1A2101-BLK1)					Prepared: 01/21/2021 Analyzed: 01/21/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
m,p-Xylene	ND	0.00400	"							U
o-Xylene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.3	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 - Mewbourne

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 B1A2101 - EPA 5030 (soil)

LCS (B1A2101-BS1)

Prepared: 01/21/2021 Analyzed: 01/21/2021

1,2,4-Trimethylbenzene	0.0953	0.00200	mg/kg	0.100		95.3	70-130			
Naphthalene	0.111	0.0100	"	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.0966	0.00200	"	0.100		96.6	70-130			
Benzene	0.0903	0.00200	"	0.100		90.3	70-130			
Ethylbenzene	0.0986	0.00200	"	0.100		98.6	70-130			
m,p-Xylene	0.199	0.00400	"	0.200		99.5	70-130			
o-Xylene	0.0998	0.00200	"	0.100		99.8	70-130			
Toluene	0.0954	0.00200	"	0.100		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	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 - Mewbourne

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 B1A2101 - EPA 5030 (soil)

Matrix Spike (B1A2101-MS1)		Source: Y101220-01			Prepared: 01/21/2021 Analyzed: 01/21/2021					
1,2,4-Trimethylbenzene	0.120	0.00200	mg/kg	0.100	120	70-130				
Naphthalene	0.113	0.0100	"	0.100	113	70-130				
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100	113	70-130				
Benzene	0.0901	0.00200	"	0.100	90.1	70-130				
Ethylbenzene	0.107	0.00200	"	0.100	107	70-130				
m,p-Xylene	0.248	0.00400	"	0.200	124	70-130				
o-Xylene	0.104	0.00200	"	0.100	104	70-130				
Toluene	0.0999	0.00200	"	0.100	99.9	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	109	70-130				
Surrogate: Toluene-d8	0.14		"	0.125	108	70-130				
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.5	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 - Mewbourne

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 B1A2101 - EPA 5030 (soil)										
Matrix Spike Dup (B1A2101-MSD1)										
		Source: Y101220-01								
					Prepared: 01/21/2021	Analyzed: 01/21/2021				
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130	17.6	20	
Naphthalene	0.0981	0.0100	"	0.100		98.1	70-130	13.9	20	
1,3,5-Trimethylbenzene	0.0968	0.00200	"	0.100		96.8	70-130	15.6	20	
Benzene	0.0745	0.00200	"	0.100		74.5	70-130	19.0	20	
Ethylbenzene	0.0898	0.00200	"	0.100		89.8	70-130	17.3	20	
m,p-Xylene	0.208	0.00400	"	0.200		104	70-130	17.6	20	
o-Xylene	0.0860	0.00200	"	0.100		86.0	70-130	19.4	20	
Toluene	0.0829	0.00200	"	0.100		82.9	70-130	18.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	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 - Mewbourne

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 B1A2102 - EPA 3550B

Blank (B1A2102-BLK1)

Prepared: 01/21/2021 Analyzed: 01/21/2021

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	52		"	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 - Mewbourne

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 B1A2102 - EPA 3550B

LCS (B1A2102-BS1)

Prepared: 01/21/2021 Analyzed: 01/21/2021

Diesel (C10-C28)	1060	50.0	mg/kg	1000	106	70-130				
Surrogate: o-Terphenyl	56		"	50.0	112	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 - Mewbourne

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 B1A2102 - EPA 3550B

Matrix Spike (B1A2102-MS1)		Source: Y101204-01			Prepared: 01/21/2021 Analyzed: 01/21/2021					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	23.9	103	70-130			
Surrogate: o-Terphenyl	52		"	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 - Mewbourne

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 B1A2102 - EPA 3550B

Matrix Spike Dup (B1A2102-MSD1)		Source: Y101204-01			Prepared: 01/21/2021 Analyzed: 01/21/2021					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	23.9	99.2	70-130	3.21	35	
Surrogate: o-Terphenyl	49		"	50.0		97.2	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 - Mewbourne

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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Classical Chemistry Parameters - 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 B1A2707 - NO PREP

Duplicate (B1A2707-DUP1)		Source: Y101288-01		Prepared: 01/27/2021 Analyzed: 01/27/2021						
pH	7.08		pH Units		7.30			3.06	25	

Batch B1A2708 - NO PREP

Blank (B1A2708-BLK1)		Prepared: 01/27/2021 Analyzed: 01/27/2021								
Specific Conductance (EC)	0.00430	0.00500	mmhos/cm							
Duplicate (B1A2708-DUP1)		Source: Y101288-01		Prepared: 01/27/2021 Analyzed: 01/27/2021						
Specific Conductance (EC)	0.293	0.00500	mmhos/cm		0.250			15.8	25	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

Total Metals by EPA 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L533959 - 3050B										
MSD (L 89921-MSD-L533959)			Source: Y101215-02		Prepared: 02/01/2021 Analyzed: 02/01/2021					
Barium	70.3	0.082	mg/Kg	4.79	60.5	204	75-125	5.9	80	I*
Cadmium	0.526	0.0391	"	0.479	0.0749	110	75-125	4.8	80	
Copper	7.77	0.118	"	2.4	5.63	89	75-125	2.2	80	
Lead	7.17	0.0115	"	2.4	4.61	107	75-125	11	80	
Nickel	7.34	0.0743	"	2.4	4.97	99	75-125	2	80	
Selenium	4.06	0.102	"	4.79	0.282	79	75-125	1.9	80	
Silver	0.458	0.0025	"	0.479	0.014	96	75-125	1	80	
Zinc	46.3	0.438	"	24	23.8	94	75-125	3.3	80	
Arsenic	3.67	0.0433	"	2.4	1.81	78	75-125	2.6	80	
MS (L 89921-MS-L533959)			Source: Y101215-02		Prepared: 02/01/2021 Analyzed: 02/01/2021					
Lead	8.01	0.0115	mg/Kg	2.44	4.61	140	75-125			*
Nickel	7.49	0.0743	"	2.44	4.97	103	75-125			
Selenium	4.14	0.102	"	4.87	0.282	79	75-125			
Silver	0.463	0.0025	"	0.487	0.014	95	75-125			
Zinc	47.9	0.438	"	24.4	23.8	99	75-125			
Barium	74.6	0.082	"	4.87	60.5	289	75-125			I*
Copper	7.95	0.118	"	2.44	5.63	95	75-125			
Cadmium	0.552	0.0391	"	0.487	0.0749	113	75-125			
Arsenic	3.77	0.0433	"	2.44	1.81	80	75-125			
LCS (LCS-L533959)			Prepared: 02/01/2021 Analyzed: 02/01/2021							
Barium	4.83	0.041	mg/Kg	5		97	80-120			
Lead	2.37	0.0115	"	2.5		95	80-120			
Nickel	2.28	0.0743	"	2.5		91	80-120			
Selenium	4.68	0.102	"	5		94	80-120			
Silver	0.464	0.0025	"	0.5		93	80-120			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

Total Metals by EPA 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L533959 - 3050B

LCS (LCS-L533959)

Prepared: 02/01/2021 Analyzed: 02/01/2021

Zinc	21.9	0.438	mg/Kg	25		88	80-120			
Cadmium	0.462	0.0391	"	0.5		92	80-120			
Arsenic	2.24	0.0433	"	2.5		90	80-120			
Copper	2.27	0.118	"	2.5		91	80-120			

LRB (LRB-L533959)

Prepared: 02/01/2021 Analyzed: 02/01/2021

Arsenic	ND	0.25	mg/Kg				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

Hexavalent Chromium by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L533424 -										
DUP (L 89330-DUP)	Source: 89330				Prepared: Analyzed: 01/27/2021					
Chromium, Hexavalent	<0.574	0.574	mg/Kg		ND	-		0	20	
MS (L 89330-MS)	Source: 89330				Prepared: Analyzed: 01/27/2021					
Chromium, Hexavalent	6.24	0.574	mg/Kg	7.78	ND	80	75-125			
LCS (LCS)					Prepared: Analyzed: 01/27/2021					
Chromium, Hexavalent	7.36	0.287	mg/Kg	8		92	75-125			
LRB (LRB)					Prepared: Analyzed: 01/27/2021					
Chromium, Hexavalent	<0.287	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L533436 - 3550B

MSD (L 89351-MSD-L533436)		Source: 89351			Prepared: 01/27/2021 Analyzed: 01/27/2021					
Benzo(b)fluoranthene	0.138	0.000138	mg/Kg	0.163	ND	84.6	30-130	18.1	30	
Dibenz(a,h)anthracene	0.118	0.000279	"	0.163	ND	72.3	30-130	8.8	30	
Pyrene	0.146	0.000387	"	0.163	ND	89.5	30-130	10.8	30	
Naphthalene	0.13	0.000467	"	0.163	ND	79.7	30-130	12.2	30	
Indeno(1,2,3-cd)pyrene	0.112	0.000344	"	0.163	ND	68.7	30-130	8.3	30	
Fluorene	0.135	0.000501	"	0.163	ND	82.8	30-130	13.4	30	
Fluoranthene	0.15	0.000529	"	0.163	ND	92	30-130	10.5	30	
1-Methylnaphthalene	0.137	0.00048	"	0.163	ND	84	30-130	14	30	
Chrysene	0.14	0.000256	"	0.163	ND	85.8	30-130	9.7	30	
2-Methylnaphthalene	0.139	0.000542	"	0.163	ND	85.2	30-130	13	30	
Acenaphthene	0.133	0.000431	"	0.163	ND	81.5	30-130	14.5	30	
Anthracene	0.14	0.000426	"	0.163	ND	85.8	30-130	12.9	30	
Benzo(a)anthracene	0.144	0.000441	"	0.163	ND	88.3	30-130	10.9	30	
Benzo(a)pyrene	0.148	0.000133	"	0.163	ND	90.7	30-130	9.9	30	
Benzo(k)fluoranthene	0.123	0.000486	"	0.163	ND	75.4	30-130	1.6	30	
Surrogate: Nitrobenzene-d5	88.3		"	0.327	258	88.3	29-110			
Surrogate: 4-Terphenyl-d14	107		"	0.327	308	107	33-122			
Surrogate: 2-Fluorobiphenyl	101		"	0.327	288	101	33-115			

MS (L 89351-MS-L533436)		Source: 89351			Prepared: 01/27/2021 Analyzed: 01/27/2021					
Chrysene	0.127	0.000256	mg/Kg	0.167	ND	76	30-130			
Fluorene	0.118	0.000501	"	0.167	ND	70.6	30-130			
Indeno(1,2,3-cd)pyrene	0.103	0.000344	"	0.167	ND	61.6	30-130			
Fluoranthene	0.135	0.000529	"	0.167	ND	80.8	30-130			
Dibenz(a,h)anthracene	0.108	0.000279	"	0.167	ND	64.6	30-130			
Pyrene	0.131	0.000387	"	0.167	ND	78.4	30-130			
Benzo(k)fluoranthene	0.121	0.000486	"	0.167	ND	72.4	30-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L533436 - 3550B

MS (L 89351-MS-L533436)		Source: 89351			Prepared: 01/27/2021 Analyzed: 01/27/2021					
Naphthalene	0.115	0.000467	mg/Kg	0.167	ND	68.8	30-130			
1-Methylnaphthalene	0.119	0.00048	"	0.167	ND	71.2	30-130			
2-Methylnaphthalene	0.122	0.000542	"	0.167	ND	73	30-130			
Acenaphthene	0.115	0.000431	"	0.167	ND	68.8	30-130			
Anthracene	0.123	0.000426	"	0.167	ND	73.6	30-130			
Benzo(a)anthracene	0.129	0.000441	"	0.167	ND	77.2	30-130			
Benzo(a)pyrene	0.134	0.000133	"	0.167	ND	80.2	30-130			
Benzo(b)fluoranthene	0.115	0.000138	"	0.167	ND	68.8	30-130			
Surrogate: Nitrobenzene-d5	75		"	0.333	258	75	29-110			
Surrogate: 2-Fluorobiphenyl	81.3		"	0.333	288	81.3	33-115			
Surrogate: 4-Terphenyl-d14	90.3		"	0.333	308	90.3	33-122			

LCS (LCS-L533436)

Prepared: 01/27/2021 Analyzed: 01/27/2021

Fluoranthene	0.124	0.000529	mg/Kg	0.167		74.2	30-130
Benzo(k)fluoranthene	0.114	0.000486	"	0.167		68.2	30-130
Naphthalene	0.106	0.000467	"	0.167		63.4	30-130
Fluorene	0.109	0.000501	"	0.167		65.2	30-130
Dibenz(a,h)anthracene	0.0958	0.000279	"	0.167		57.3	30-130
Chrysene	0.117	0.000256	"	0.167		70	30-130
Pyrene	0.122	0.000387	"	0.167		73	30-130
1-Methylnaphthalene	0.11	0.00048	"	0.167		65.8	30-130
Benzo(a)pyrene	0.121	0.000133	"	0.167		72.4	30-130
Benzo(a)anthracene	0.12	0.000441	"	0.167		71.8	30-130
Anthracene	0.114	0.000426	"	0.167		68.2	30-130
Acenaphthene	0.106	0.000431	"	0.167		63.4	30-130
2-Methylnaphthalene	0.113	0.000542	"	0.167		67.6	30-130
Indeno(1,2,3-cd)pyrene	0.0921	0.000344	"	0.167		55.1	30-130

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Brian Humphrey
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Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L533436 - 3550B

LCS (LCS-L533436)

Prepared: 01/27/2021 Analyzed: 01/27/2021

Benzo(b)fluoranthene	0.105	0.000138	mg/Kg	0.167		62.8	30-130			
Surrogate: Nitrobenzene-d5	72		"	0.333		72	29-110			
Surrogate: 4-Terphenyl-d14	89.1		"	0.333		89.1	33-122			
Surrogate: 2-Fluorobiphenyl	78.9		"	0.333		78.9	33-115			

LRB (LRB-L533436)

Prepared: 01/27/2021 Analyzed: 01/27/2021

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	71.4		"	0.333		71.4	29-110			
Surrogate: 4-Terphenyl-d14	89.1		"	0.333		89.1	33-122			
Surrogate: 2-Fluorobiphenyl	79.5		"	0.333		79.5	33-115			

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Notes and Definitions

- U Sample is Non-Detect.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- J Estimated Value. Analyte below reported quantitation limit.
- I* Recoveries affected by interferences or high background. QC Failure.
- * QC Failure
- 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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