

<i>Third Party Removal Date</i>									
<i>Sample taken? Location/Container</i>	See Below								
<i>PID Readings</i>	0.2								
<i>Photo Number(s)</i>									
Other Facility Equipment									
<i>Equipment type</i>	Emission Control Device								
<i>Equipment Condition Age</i>									
<i>Soil impacts</i>	No Stain/Odor								
<i>PID Readings</i>	0.0								
<i>Sample taken? Location/Container</i>	See Below								
<i>Photo Number(s)</i>									
<i>Other observations regarding other facility or third party equipment:</i>									
Sample taken below meter house and flare. (MH01@0.5' & Flare01@0.5')									
Summary									
<i>Was impacted soil identified?</i>									
<input checked="" type="checkbox"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards									
<i>Total number of samples field screened:</i> 13					<i>Total number of samples collected:</i> 13				
<i>Highest PID Reading:</i> 6.8					<i>Total number of samples submitted to lab for analysis:</i> 7				
<i>If more than 10 cubic yards of impacted soil were observed:</i>									
<i>Vertical extent:</i>					<i>Estimated spill volume:</i>				
<i>Lateral extent:</i>					<i>Volume of soil removed:</i>				
<i>Is additional investigation required?</i>									
<i>Was groundwater encountered during the investigation?</i>									
<input type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils									
<i>Measured depth to groundwater:</i>					<i>Was remedial groundwater removal conducted?</i> Yes No				
<i>Date Groundwater was encountered:</i>					<i>Commencement date of removal:</i>				
<i>Sheen on groundwater?</i> Yes No					<i>Volume of groundwater removed prior to sampling:</i>				
<i>Free product observed?</i> Yes No					<i>Volume of groundwater removed post sampling:</i>				
<i>Total number of samples collected:</i>					<i>Total Volume of groundwater removed:</i>				
<i>Total number of samples submitted to lab for analysis:</i>									

Photographic Log



Equipment ID: SS01		Equipment Type: Partially Buried Vault		Equipment ID: SS02		Equipment Type: Partially Buried Vault	
Material: Concrete		Volume: 100 BBL		Material: Concrete		Volume: 100 BBL	
Contents: Produced Water				Contents: Produced Water			
Notes/Conditions: Loloff 2, 3, B35-19, Photo of SS01@2.5'				Notes/Conditions: Loloff 2, 3, B35-19, Photo of SS02@2.5'			

Photographic Log



Equipment ID: SS03		Equipment Type: Partially Buried Vault			Equipment ID: SS04		Equipment Type: Partially Buried Vault		
Material: Concrete		Volume: 100 BBL	Contents: Produced Water		Material: Concrete		Volume: 100 BBL	Contents: Produced Water	
Notes/Conditions: Loloff 2, 3, B35-19, Photo of SS03@2.5'					Notes/Conditions: Loloff 2, 3, B35-19, Photo of SS04@2.5'				

Photographic Log



Equipment ID: SS05		Equipment Type: Partially Buried Vault			Equipment ID: SS06		Equipment Type: Partially Buried Vault		
Material: Concrete		Volume: 100 BBL	Contents: Produced Water		Material: Concrete		Volume: 100 BBL	Contents: Produced Water	
Notes/Conditions: Loloff 2, 3, B35-19, Photo of SS05@2.5'					Notes/Conditions: Loloff 2, 3, B35-19, Photo of SS06@2.5'				

Photographic Log



Equipment ID: FS01		Equipment Type: Partially Buried Vault			Equipment ID: FS02		Equipment Type: Partially Buried Vault		
Material: Concrete		Volume: 100 BBL	Contents: Produced Water		Material: Concrete		Volume: 100 BBL	Contents: Produced Water	
Notes/Conditions: Loloff 2, 3, B35-19, Photo of FS01@5'					Notes/Conditions: Loloff 2, 3, B35-19, Photo of FS02@5'				

Photographic Log



Equipment ID: MH01		Equipment Type: Meter House			Equipment ID: Flare01		Equipment Type: Emission Control Device		
Material: Steel		Volume: NA	Contents: NA		Material: Steel		Volume: NA	Contents: NA	
Notes/Conditions: Loloff 2, 3, B35-19, Photo of MH01 @0.5					Notes/Conditions: Loloff 2, 3, B35-19, Photo of Flare01 @0.5'				

Photographic Log

					
Equipment ID: AST01	Equipment Type: Above Ground Storage Tank		Equipment ID: SEP01-FL	Equipment Type: Flowline	
Material: Steel	Volume: 300 BBL	Contents: Crude Oil	Material: Steel	Volume: NA	Contents: Oil/Gas/Water
Notes/Conditions: Loloff 2, 3, B35-19, Photo of AST01 @0.5'			Notes/Conditions: Loloff 2, 3, B35-19, Photo of SEP01-FL @3'		

Photographic Log

											
Equipment ID: SEP01-DL		Equipment Type: Dump Line		Equipment ID:		Equipment Type:					
Material: Steel		Volume: NA		Contents: Oil/Gas/Water		Material:		Volume:		Contents:	
Notes/Conditions: Loloff 2, 3, B35-19, Photo of SEP01-DL@3'						Notes/Conditions:					

TABLE 1
SOIL SAMPLE LOCATIONS
NOBLE ENERGY, INC. - LOLOFF 2, 3, B35-19

Soil Sample ID	Date	PID (ppm)	Visual	Olfactory	Sample Type (Grab/Lab)	Latitude ¹	Longitude	PDOP
SS01@2.5'	10/29/21	1.8	No Staining	No Odor	Grab	40.36331150	-104.5220516	1.2
SS02@2.5'	10/29/21	2.7	No Staining	No Odor	Lab	40.36328300	-104.5220314	1.2
SS03@2.5'	10/29/21	1.2	No Staining	No Odor	Grab	40.36324843	-104.5220668	1.1
SS04@2.5'	10/29/21	0.6	No Staining	No Odor	Lab	40.36325027	-104.5221064	1.1
SS05@2.5'	10/29/21	0.2	No Staining	No Odor	Grab	40.36328331	-104.5221196	1.1
SS06@2.5'	10/29/21	0.3	No Staining	No Odor	Grab	40.36330848	-104.5220738	1.1
FS01@5'	10/29/21	6.8	No Staining	No Odor	Lab	40.36328506	-104.5220592	1.1
FS02@5'	10/29/21	1.6	No Staining	No Odor	Lab	40.36327668	-104.5220944	1.1
AST01@0.5'	10/29/21	0.6	No Staining	No Odor	Lab	40.36327334	-104.5221621	1.2
MH01@0.5'	10/29/21	0.2	No Staining	No Odor	Grab	40.36327526	-104.5217686	1.1
SEP01-FL@3'	10/29/21	0.1	No Staining	No Odor	Lab	40.36332845	-104.5217214	1.1
SEP01-DL@3'	10/29/21	0.1	No Staining	No Odor	Lab	40.36330074	-104.5217768	1.1
Flare01@0.5'	10/29/21	0.0	No Staining	No Odor	Lab	40.36337089	-104.5218142	1.1
BG01@3'	02/28/22	0.0	No Staining	No Odor	Lab	40.36332993	-104.5217828	NA
BG01@5'	02/28/22	0.0	No Staining	No Odor	Lab	40.36332993	-104.5217828	NA

Notes:

PID = Photo-ionization detector

ppm = parts per million

PDOP = Position dilution of precision

HC = Hydrocarbon

NA = Coordinate Georeferenced

1.) Latitude and longitude coordinates will be provided in decimal degrees with an accuracy and precision of 5 decimals of a degree using the North American Datum ("NAD") of 1983

TABLE 2
SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - LOLOFF 2, 3, 835-19

Soil Sample ID	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4 - TMB (mg/kg)	1,3,5 - TMB (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benz(a) (mg/kg)	Benzo(a) (mg/kg)	Benzo(b) (mg/kg)	Benzo(k) (mg/kg)	Chrysene (mg/kg)	A,H (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	Pyrene (mg/kg)	1-M (mg/kg)	2-M (mg/kg)
Residential SSL ²		1.2	490	5.8	58	30	27	2	500			360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
Protection of Groundwater SSL ^{2,3}		0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500			0.55	6	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
SS02@2.5'	10/29/21	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000346	0.000547
SS04@2.5'	10/29/21	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	25.6	<100	<0.00067	<0.00067	<0.00067	0.000207	0.00307	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00031	<0.00067	<0.00067	<0.00067
FS01@5'	10/29/21	<0.00200	<0.00200	<0.00200	<0.00200	0.00256	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00067	0.00129	0.00425	0.00453	0.0123	0.00549	0.0115	0.00147	0.0124	0.000364	0.00426	0.0109	0.000832	0.00141
FS02@5'	10/29/21	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
AST01@0.5'	10/29/21	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00067	<0.00067	<0.00067	<0.00067	0.000424	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000618
SEP01-FL@3'	10/29/21	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	0.00718	0.0183	0.0329	0.0205	0.0253	0.00737	0.0278	0.00221	0.0874	0.00951	0.00955	0.0669	<0.00067	0.00064
SEP01-DL@3'	10/29/21	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00067	<0.00067	<0.00067	<0.00067	0.000389	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000622

Soil Sample ID	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
Residential SSL ²		6 - 8.3	<6	<4mmhos/cm	2
SS02@2.5'	10/29/21	8.14	0.618	0.524	0.199
SS04@2.5'	10/29/21	7.91	0.334	0.659	<0.198
FS01@5'	10/29/21	8.39	1.05	0.471	<0.199
FS02@5'	10/29/21	8.52	3.43	0.559	0.318
AST01@0.5'	10/29/21	7.63	0.676	0.433	<0.198
SEP01-FL@3'	10/29/21	7.94	0.253	0.368	<0.200
SEP01-DL@3'	10/29/21	7.97	0.404	0.398	<0.199
BG01@3'	02/28/22	7.78	NA	NA	NA
BG01@5'	02/28/22	7.67	NA	NA	NA

Soil Sample ID	Date	Arsenic (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)
Residential SSL ²		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Protection of Groundwater		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
SEP01-FL@3'	10/29/21	1.43	56	0.0531	<1.03	4.4	5.89	5.21	0.283	0.0257	23
BG01@3'	02/28/22	1.3	53.9	<0.25	<0.505	4.35	4.25	4.81	0.298	<0.25	17.9

Notes:
1. Compounds referenced from 2 CCR 404-1, Table 915-1, effective January 15, 2021.
2. Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
3. SSLs are applicable if a pathway for communication with groundwater is present.
Definitions:
COGCC = Colorado Oil and Gas Conservation Commission
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
TPH-ORO = Total petroleum hydrocarbons - oil range organics
mg/kg = Milligrams per kilogram
SAR = Sodium Adsorption Ratio
EC = Electrical Conductivity
mmhos/cm = Millimhos per centimeter
mg/L = Milligrams per liter
NA = Not analyzed
< = Analytical result is less than the indicated laboratory reporting limit
Highlighted results are equal to or exceed the COGCC Table 915-1 standard

1,2,4 - TMB = 1,2,4 Trimethylbenzene
1,3,5 - TMB = 1,3,5 Trimethylbenzene
Benz(a) = Benzantracene
Benzo(b) = Benzofluoranthene
Benzo(k) = Benzofluoranthene
Benzo(a) = Benzopyrene
A,H = Dibenzoanthracene
1,2,3-CD = Indenopyrene
1-M = 1-methylnaphthalene
2-M = 2-methylnaphthalene

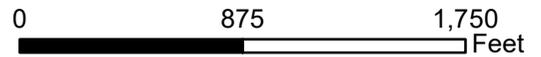
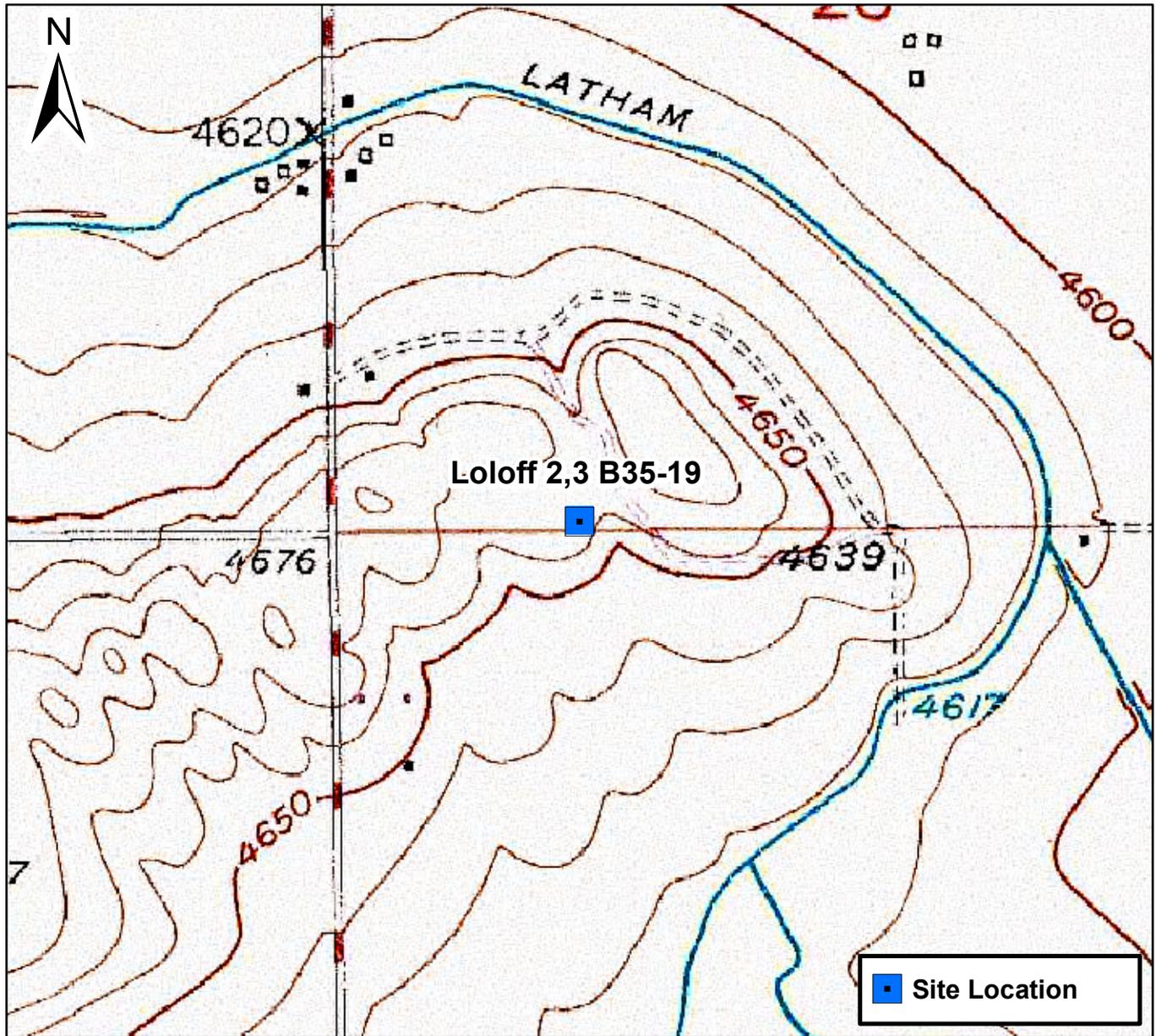


Figure 1

Site Location Map
 Loloff 2,3 B35-19
 SWSW S26 T5N R64W
 Weld County, Colorado





DATE:	11/3/2021
DESIGNED BY:	JW
DRAWN BY:	AD



TASMAN Tasman Geosciences, Inc.
6855 W 119th Avenue
Broomfield, CO 80020

Noble Energy, Inc. – DJ Basin
Loloff 2, 3,B35-19
SWSW, Section 26, Township 5 North, Range 64 West
Weld County, Colorado

Tank Battery Closure & Soil
Analytical Results Map
(10/29/2021)

FIGURE 2

November 11, 2021

Tasman Geosciences

Jake Whritenour

6855 West 119th Avenue

Broomfield CO 80020

Project Name - Noble - Loloff 2,3 B35-19

Project Number - 815901465

Attached are your analytical results for Noble - Loloff 2,3 B35-19 received by Origins Laboratory, Inc. October 29, 2021. This project is associated with Origins project number Y111018-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jake Whritenour
Project Number: 815901465
Project: Noble - Loloff 2,3 B35-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS02@2.5'	Y111018-01	Soil	October 29, 2021 12:55	10/29/2021 17:00
SS04@2.5'	Y111018-02	Soil	October 29, 2021 13:05	10/29/2021 17:00
FS01@5'	Y111018-03	Soil	October 29, 2021 13:20	10/29/2021 17:00
FS02@5'	Y111018-04	Soil	October 29, 2021 13:25	10/29/2021 17:00
AS01@0.5'	Y111018-05	Soil	October 29, 2021 13:45	10/29/2021 17:00
SEP01-FL@3'	Y111018-06	Soil	October 29, 2021 14:40	10/29/2021 17:00
SEP01-DL@3'	Y111018-07	Soil	October 29, 2021 14:50	10/29/2021 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

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11019

page 1 of 2

Client: Noble/Tasman Geosciences
 Address: 6855 W 119th Ave
 Telephone Number: 303-827-1511
 Email Address: jwhritenour@tasman-geo.com

Project Manager: Jake Whritenour, Invoice: Luke Frisvold
 Project Name: Loloff 2,3 B35-19
 Project Number: 22-4244-815901465 Job: 247037
 Samples Collected By: Daniel Quast, Hunter Merlo

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis					Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	VOC-q15	PAH-q15	SAR, EC, pH	Boron-Hrus	Hot D		Other	SAR, EC, pH	PH-q15
S50202.5'	10/20/10	1255	2	X				X					X	X	X	X	X	X	SAR, EC, pH by saturated paste Sample Instructions
S50402.5'		1305																	915 metals
F50105'		1320																	added to
F50205'		1325																	SEPOI-FL05 p0c 4
A50100.5'		1345																	Kilian's email
SEPOI-FL03'		1440																	on 1/10
SEPOI-DL03'		1450																	
S50102.5'		1250																	
S50302.5'		1300																	
S50502.5'		1310																	
Relinquished By: [Signature]	Date: 10/20/10	Time: 1700																	
Relinquished By: [Signature]	Date: 10/29/10	Time: 1700																	

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Origins Laboratory, Inc.

[Signature]

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

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

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page 2 of 2

411018

Client: Noble/Tasman Geosciences

Address: 6855 W 119th Ave

Telephone Number: 303-827-1511

Email Address: jwhritenour@tasman-geo.com

Project Manager: Jake Whritenour; Invoice: Wade Firsching

Project Name: Loloff 2,3 B35-19

Project Number: 815901465 Task 247037

Samples Collected By: Daniel Quaja Hunter Merlo

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis					Turnaround Time:			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	VOC-915	TPH-915	SAR, EC, PH	Pres-HHS		HOLD	Sample Instructions	
55062251	10/29/21	1315	2	X					X				X	X	X	X	X	SAR, EC, PH by saturated pesticide Hold All Analytes	24 Hr <input type="checkbox"/>
																			48 Hr <input type="checkbox"/>
																			72 Hr <input type="checkbox"/>
																			Standard <input checked="" type="checkbox"/>
Relinquished By: <i>[Signature]</i>	Date: 10/29/21	Time: 1700																	Date: 10/29/21
Received By: <i>[Signature]</i>	Date: 10/29/21	Time: 1700																	Date: 10/29/21

Origins Laboratory, Inc.

[Signature]

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

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

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

Sample Receipt Checklist

Origins Work Order: Y111018 Client: Tasman
 Client Project ID: Loloff 2-3 B35-19

Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 11/11/21 (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, 16.6 °C 1 °C 1 °C 1 °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>Same Day</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 (> ¼ 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 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"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JM Date/Time Reviewed 11-2-21

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

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

SS02@2.5'
10/29/2021 12:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111018-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.199	mg/L	1	B1K0110	11/01/2021	11/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K0219	11/02/2021	11/06/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 39.9 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1K0220	11/02/2021	11/05/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

SS02@2.5'
10/29/2021 12:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111018-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	97.9 %		70-130			B1K02 20	11/02/2021	11/05/2021	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	3.28		0.499	meq/L	10	[CALC]	11/01/2021	11/02/2021	
Magnesium	1.13		0.823	"	"	"	"	"	
Sodium	0.918		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000346	0.00033	0.00067	mg/Kg	1	L582591	11/03/2021	11/03/2021	J
2-Methylnaphthalene	0.000547	0.00039	0.00067	"	"	"	"	"	J
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	ND	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

SS02@2.5'
10/29/2021 12:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111018-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L582591	11/03/2021	11/03/2021	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	39.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	47.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	31.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.14			pH Units	1	B1K0121	11/01/2021	11/02/2021	
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SAR by 20B Saturated Paste

SAR	0.618			SAR	1	B1K0113	11/01/2021	11/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.524		0.00500	mmhos/cm	1	B1K0313	11/03/2021	11/04/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

SS04@2.5'

10/29/2021 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111018-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.198	mg/L	1	B1K0110	11/01/2021	11/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	25.6		25.0	mg/kg	1	B1K0219	11/02/2021	11/06/2021	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	39.7 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1K0220	11/02/2021	11/05/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

SS04@2.5'

10/29/2021 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111018-02 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.1 %		70-130			B1K02 20	11/02/2021	11/05/2021	
Surrogate: 4-Bromofluorobenzene	98.4 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	3.99		0.499	meq/L	10	[CALC]	11/01/2021	11/02/2021	
Magnesium	1.40		0.823	"	"	"	"	"	
Sodium	0.548		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L582591	11/03/2021	11/03/2021	
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000207	0.00014	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000307	0.00021	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	ND	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

SS04@2.5'

10/29/2021 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111018-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L582591	11/03/2021	11/03/2021	
Indeno(1,2,3-cd)pyrene	0.00031	0.00029	0.00067	"	"	"	"	"	J
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	40.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	45 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	30.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.91			pH Units	1	B1K0121	11/01/2021	11/02/2021	
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SAR by 20B Saturated Paste

SAR	0.334			SAR	1	B1K0113	11/01/2021	11/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.659		0.00500	mmhos/cm	1	B1K0313	11/03/2021	11/04/2021	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

FS01@5'

10/29/2021 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111018-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.199	mg/L	1	B1K0207	11/02/2021	11/03/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K0219	11/02/2021	11/06/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	57.9 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00256		0.00200	mg/kg	1	B1K0220	11/02/2021	11/05/2021	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

FS01@5'

10/29/2021 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111018-03 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.0 %		70-130			B1K02 20	11/02/2021	11/05/2021	
Surrogate: 4-Bromofluorobenzene	99.6 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	2.17		0.499	meq/L	10	[CALC]	11/01/2021	11/02/2021	
Magnesium	0.987		0.823	"	"	"	"	"	
Sodium	1.31		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000832	0.00033	0.00067	mg/Kg	1	L582591	11/03/2021	11/03/2021	
2-Methylnaphthalene	0.00141	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	0.00129	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00425	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00453	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0123	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00549	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.0115	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00147	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	0.0124	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.000364	0.00029	0.00067	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	0.00426	0.00029	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

FS01@5'

10/29/2021 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111018-03 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.000467	0.00067	mg/Kg	1	L582591	11/03/2021	11/03/2021	
Pyrene	0.0109	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	37.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	46.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	30.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.39			pH Units	1	B1K0121	11/01/2021	11/02/2021	
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SAR by 20B Saturated Paste

SAR	1.05			SAR	1	B1K0113	11/01/2021	11/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.471		0.00500	mmhos/cm	1	B1K0313	11/03/2021	11/04/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

FS02@5'

10/29/2021 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111018-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.318		0.199	mg/L	1	B1K0207	11/02/2021	11/03/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K0219	11/02/2021	11/06/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	38.6 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1K0220	11/02/2021	11/05/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

FS02@5'

10/29/2021 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111018-04 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.1 %		70-130			B1K02 20	11/02/2021	11/05/2021	
Surrogate: 4-Bromofluorobenzene	99.9 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	0.559		0.499	meq/L	10	[CALC]	11/01/2021	11/02/2021	
Magnesium	1.56		0.823	"	"	"	"	"	
Sodium	3.54		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L582760	11/03/2021	11/03/2021	
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	ND	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

FS02@5'

10/29/2021 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111018-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L582760	11/03/2021	11/03/2021	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	49.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	60.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	37.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.52			pH Units	1	B1K0121	11/01/2021	11/02/2021	
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SAR by 20B Saturated Paste

SAR	3.43			SAR	1	B1K0113	11/01/2021	11/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.559		0.00500	mmhos/cm	1	B1K0313	11/03/2021	11/04/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

AS101@0.5'

10/29/2021 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111018-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.198	mg/L	1	B1K0207	11/02/2021	11/03/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K0219	11/02/2021	11/04/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	36.3 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1K0220	11/02/2021	11/05/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

AS101@0.5'

10/29/2021 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111018-05 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	97.0 %		70-130			B1K02 20	11/02/2021	11/05/2021	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	2.25		0.499	meq/L	10	[CALC]	11/01/2021	11/02/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.813		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L582760	11/03/2021	11/03/2021	
2-Methylnaphthalene	0.000618	0.00039	0.00067	"	"	"	"	"	J
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000424	0.00021	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	ND	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

AS101@0.5'

10/29/2021 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111018-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L582760	11/03/2021	11/03/2021	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	44.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.63			pH Units	1	B1K0121	11/01/2021	11/02/2021	
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SAR by 20B Saturated Paste

SAR	0.676			SAR	1	B1K0113	11/01/2021	11/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.433		0.00500	mmhos/cm	1	B1K0313	11/03/2021	11/04/2021	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

SEP01-FL@3'
10/29/2021 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111018-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.200	mg/L	1	B1K0207	11/02/2021	11/03/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K0219	11/02/2021	11/06/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	38.6 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1K0220	11/02/2021	11/05/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

SEP01-FL@3'

10/29/2021 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111018-06 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.0 %		70-130			B1K02 20	11/02/2021	11/05/2021	
Surrogate: 4-Bromofluorobenzene	99.6 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	2.36		0.499	meq/L	10	[CALC]	11/01/2021	11/02/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L582760	11/03/2021	11/03/2021	
2-Methylnaphthalene	0.00064	0.00039	0.00067	"	"	"	"	"	J
Acenaphthene	0.00718	0.0003	0.00067	"	"	"	"	"	
Anthracene	0.0183	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0329	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.0205	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0253	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00737	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.0278	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00221	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	0.0874	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.00951	0.00029	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jake Whritenour
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 Project: Noble - Loloff 2,3 B35-19

SEP01-FL@3'
10/29/2021 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111018-06 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00955	0.00029	0.00067	mg/Kg	1	L582760	11/03/2021	11/03/2021	
Naphthalene	0.000842	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.0669	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	44.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.94			pH Units	1	B1K0121	11/01/2021	11/02/2021	
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SAR by 20B Saturated Paste

SAR	0.253			SAR	1	B1K0113	11/01/2021	11/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.368		0.00500	mmhos/cm	1	B1K0313	11/03/2021	11/04/2021	
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Total Metals by 6020B

Arsenic	1.43	0.0855	0.25	mg/Kg	5	L583871	11/10/2021	11/10/2021	
Barium	56	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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Broomfield CO 80020

Jake Whritenour
Project Number: 815901465
Project: Noble - Loloff 2,3 B35-19

SEP01-FL@3'
10/29/2021 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y111018-06 (Soil)

Total Metals by 6020B

Cadmium	0.0531	0.0259	0.25	mg/Kg	5	L583871	11/10/2021	11/10/2021	J
Copper	4.4	0.0806	0.25	"	"	"	"	"	
Lead	5.89	0.031	0.25	"	"	"	"	"	
Nickel	5.21	0.0633	0.25	"	"	"	"	"	
Selenium	0.283	0.103	0.25	"	"	"	"	"	
Silver	0.0257	0.0067	0.25	"	"	"	"	"	J
Zinc	23	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.502	1.03	mg/Kg	2	L583964	10/29/2021	11/10/2021	
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

SEP01-DL@3'
 10/29/2021 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y111018-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.199	mg/L	1	B1K0207	11/02/2021	11/03/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1K0219	11/02/2021	11/06/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	39.7 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1K0220	11/02/2021	11/05/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
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 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

SEP01-DL@3'

10/29/2021 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y111018-07 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	97.2 %		70-130			B1K02 20	11/02/2021	11/05/2021	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	2.31		0.499	meq/L	10	[CALC]	11/01/2021	11/02/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.500		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L582760	11/03/2021	11/03/2021	
2-Methylnaphthalene	0.000622	0.00039	0.00067	"	"	"	"	"	J
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000389	0.00021	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	ND	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	

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 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

SEP01-DL@3'
10/29/2021 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y111018-07 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L582760	11/03/2021	11/03/2021	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	49.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	39.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.97			pH Units	1	B1K0121	11/01/2021	11/02/2021	
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SAR by 20B Saturated Paste

SAR	0.404			SAR	1	B1K0113	11/01/2021	11/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.398		0.00500	mmhos/cm	1	B1K0313	11/03/2021	11/04/2021	
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 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

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 B1K0219 - EPA 3550B										
Blank (B1K0219-BLK1)										
					Prepared: 11/02/2021 Analyzed: 11/09/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.4	50-150			

Origins Laboratory, Inc.



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 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

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 B1K0219 - EPA 3550B

LCS (B1K0219-BS1)

Prepared: 11/02/2021 Analyzed: 11/09/2021

Diesel (C10-C28)	795	50.0	mg/kg	1000		79.5	70-130			
Residual Range Organics (C28-C40)	832	200	"	1000		83.2	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.1	50-150			

Origins Laboratory, Inc.



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 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

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 B1K0219 - EPA 3550B

Matrix Spike (B1K0219-MS1)	Source: Y111058-01			Prepared: 11/02/2021 Analyzed: 11/09/2021						
Diesel (C10-C28)	812	50.0	mg/kg	1000	ND	81.2	70-130			
Residual Range Organics (C28-C40)	854	200	"	1000	ND	85.4	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.2	50-150			

Origins Laboratory, Inc.



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 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

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 B1K0219 - EPA 3550B										
Matrix Spike Dup (B1K0219-MSD1)		Source: Y111058-01			Prepared: 11/02/2021 Analyzed: 11/02/2021					
Diesel (C10-C28)	794	50.0	mg/kg	1000	ND	79.4	70-130	2.26	35	
Residual Range Organics (C28-C40)	882	200	"	1000	ND	88.2	70-130	3.20	35	
Surrogate: o-Terphenyl	23		"	49.8		45.7	50-150			QM-07

Origins Laboratory, Inc.



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Tasman Geosciences
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Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

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 B1K0220 - EPA 5030 (soil)

Blank (B1K0220-BLK1)

Prepared: 11/02/2021 Analyzed: 11/05/2021

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
Toluene	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		97.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

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 B1K0220 - EPA 5030 (soil)

LCS (B1K0220-BS1)

Prepared: 11/02/2021 Analyzed: 11/05/2021

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
Naphthalene	0.0855	0.0100	"	0.100		85.5	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1K0220 - EPA 5030 (soil)

Matrix Spike (B1K0220-MS1)	Source: Y111058-01			Prepared: 11/02/2021 Analyzed: 11/05/2021						
1,2,4-Trimethylbenzene	0.0714	0.00200	mg/kg	0.100	ND	71.4	70-130			
Naphthalene	0.0728	0.0100	"	0.100	0.00354	69.3	70-130			QM-07
1,3,5-Trimethylbenzene	0.0743	0.00200	"	0.100	ND	74.3	70-130			
Benzene	0.0849	0.00200	"	0.100	ND	84.9	70-130			
Ethylbenzene	0.0747	0.00200	"	0.100	ND	74.7	70-130			
m,p-Xylene	0.148	0.00400	"	0.200	ND	73.9	70-130			
o-Xylene	0.0785	0.00200	"	0.100	ND	78.5	70-130			
Toluene	0.0783	0.00200	"	0.100	ND	78.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1K0220 - EPA 5030 (soil)

Matrix Spike Dup (B1K0220-MSD1)	Source: Y111058-01			Prepared: 11/02/2021 Analyzed: 11/05/2021						
1,2,4-Trimethylbenzene	0.0831	0.00200	mg/kg	0.100	ND	83.1	70-130	15.2	20	
Naphthalene	0.0761	0.0100	"	0.100	0.00354	72.6	70-130	4.43	20	
1,3,5-Trimethylbenzene	0.0878	0.00200	"	0.100	ND	87.8	70-130	16.7	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	17.8	20	
Ethylbenzene	0.0897	0.00200	"	0.100	ND	89.7	70-130	18.3	20	
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.1	70-130	17.5	20	
o-Xylene	0.0904	0.00200	"	0.100	ND	90.4	70-130	14.2	20	
Toluene	0.0949	0.00200	"	0.100	ND	94.9	70-130	19.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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 Project: Noble - Loloff 2,3 B35-19

Total Metals by 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 L583871 - 3050B

MSD (L 95758-MSD-L583871)		Source: 95758			Prepared: 11/10/2021 Analyzed: 11/10/2021					
Copper	4.66	0.0806	mg/Kg	2.45	2.28	97	75-125	15	80	
Arsenic	3.89	0.0855	"	2.45	2.01	77	75-125	47.8	80	
Cadmium	0.457	0.0259	"	0.49	<0.0259	93	75-125	0.6	80	
Lead	5.93	0.031	"	2.45	3.51	99	75-125	11.4	80	
Nickel	5.32	0.0633	"	2.45	2.89	99	75-125	7.4	80	
Selenium	4.34	0.103	"	4.9	0.198	89	75-125	11.7	80	
Silver	0.491	0.0067	"	0.49	0.00904	100	75-125	7.3	80	
Zinc	36.7	0.534	"	24.5	12.1	100	75-125	2.4	80	
Barium	49.6	0.042	"	4.9	50.9	NR	75-125	0.4	80	*

MS (L 95758-MS-L583871)		Source: 95758			Prepared: 11/10/2021 Analyzed: 11/11/2021					
Arsenic	6.34	0.0855	mg/Kg	2.37	2.01	183	75-125			*
Zinc	37.6	0.534	"	23.7	12.1	108	75-125			
Silver	0.456	0.0067	"	0.473	0.00904	96	75-125			
Selenium	3.86	0.103	"	4.73	0.198	82	75-125			
Nickel	5.73	0.0633	"	2.37	2.89	120	75-125			
Lead	6.65	0.031	"	2.37	3.51	133	75-125			*
Copper	5.42	0.0806	"	2.37	2.28	133	75-125			*
Barium	49.8	0.042	"	4.73	50.9	NR	75-125			*
Cadmium	0.46	0.0259	"	0.473	<0.0259	97	75-125			

LCS (LCS-L583871)		Prepared: 11/10/2021 Analyzed: 11/10/2021								
Barium	4.75	0.042	mg/Kg	5		95	80-120			
Nickel	2.36	0.0633	"	2.5		94	80-120			
Selenium	4.66	0.103	"	5		93	80-120			
Silver	0.473	0.0067	"	0.5		95	80-120			
Lead	2.48	0.031	"	2.5		99	80-120			

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Jake Whritenour
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 Project: Noble - Loloff 2,3 B35-19

Total Metals by 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 L583871 - 3050B

LCS (LCS-L583871)

Prepared: 11/10/2021 Analyzed: 11/10/2021

Zinc	22.6	0.534	mg/Kg	25		90	80-120			
Arsenic	2.47	0.0855	"	2.5		99	80-120			
Copper	2.38	0.0806	"	2.5		95	80-120			
Cadmium	0.483	0.0259	"	0.5		97	80-120			

LRB (LRB-L583871)

Prepared: 11/10/2021 Analyzed: 11/10/2021

Lead	0.263	0.25	mg/Kg				-			*
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Barium	0.14	0.25	"				-			J
Selenium	ND	0.25	"				-			

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Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L583964 -										
DUP (L 91479-DUP)		Source: Y111018-06			Prepared: Analyzed: 11/10/2021					
Chromium, Hexavalent	ND	0.488	mg/Kg		<1.00		-	0	20	
MS (L 91479-MS)		Source: Y111018-06			Prepared: Analyzed: 11/10/2021					
Chromium, Hexavalent	5.91	0.488	mg/Kg	8.03	<0.488	74	75-125			*
LCS (LCS)		Prepared: Analyzed: 11/10/2021								
Chromium, Hexavalent	6.03	0.244	mg/Kg	8		75	75-125			
LRB (LRB)		Prepared: Analyzed: 11/10/2021								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 Project: Noble - Loloff 2,3 B35-19

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L582760 - 3550B

MSD (L 91477-MSD-L582760)		Source: Y111018-04			Prepared: 11/03/2021 Analyzed: 11/03/2021					
Dibenz(a,h)anthracene	0.109	0.00036	mg/Kg	0.163	<0.000360	66.8	30-130	6.2	30	
Fluoranthene	0.114	0.00039	"	0.163	<0.000390	69.9	30-130	2.6	30	
Fluorene	0.109	0.00029	"	0.163	<0.000290	66.8	30-130	0.9	30	
Indeno(1,2,3-cd)pyrene	0.0935	0.00029	"	0.163	<0.000290	57.3	30-130	7.7	30	
Pyrene	0.113	0.00059	"	0.163	<0.000590	69.3	30-130	1.7	30	
Chrysene	0.11	0.00027	"	0.163	<0.000270	67.4	30-130	0	30	
2-Methylnaphthalene	0.0961	0.00039	"	0.163	<0.000390	58.9	30-130	0.6	30	
Naphthalene	0.0913	0.000467	"	0.163	<0.000467	56	30-130	2.7	30	
Benzo(k)fluoranthene	0.0837	0.00013	"	0.163	<0.000130	51.3	30-130	6.1	30	
Benzo(b)fluoranthene	0.0889	0.00021	"	0.163	<0.000210	54.5	30-130	2.2	30	
Benzo(a)pyrene	0.12	0.00014	"	0.163	<0.000140	73.6	30-130	1.6	30	
Benzo(a)anthracene	0.124	0.00041	"	0.163	<0.000410	76	30-130	2.4	30	
Anthracene	0.107	0.00033	"	0.163	<0.000330	65.6	30-130	0	30	
1-Methylnaphthalene	0.0948	0.00033	"	0.163	<0.000330	58.1	30-130	2	30	
Acenaphthene	0.107	0.0003	"	0.163	<0.000300	65.6	30-130	1.8	30	
Surrogate: Nitrobenzene-d5	36		"	0.327	125	36	29-110			
Surrogate: 4-Terphenyl-d14	61.4		"	0.327	199	61.4	33-122			
Surrogate: 2-Fluorobiphenyl	47.7		"	0.327	164	47.7	33-115			

MS (L 91477-MS-L582760)		Source: Y111018-04			Prepared: 11/03/2021 Analyzed: 11/03/2021					
Anthracene	0.107	0.00033	mg/Kg	0.165	<0.000330	64.8	30-130			
1-Methylnaphthalene	0.0968	0.00033	"	0.165	<0.000330	58.6	30-130			
2-Methylnaphthalene	0.0967	0.00039	"	0.165	<0.000390	58.6	30-130			
Indeno(1,2,3-cd)pyrene	0.101	0.00029	"	0.165	<0.000290	61.2	30-130			
Pyrene	0.111	0.00059	"	0.165	<0.000590	67.2	30-130			
Naphthalene	0.0938	0.000467	"	0.165	<0.000467	56.8	30-130			
Acenaphthene	0.109	0.0003	"	0.165	<0.000300	66	30-130			

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 Project: Noble - Loloff 2,3 B35-19

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L582760 - 3550B

MS (L 91477-MS-L582760)		Source: Y111018-04			Prepared: 11/03/2021 Analyzed: 11/03/2021					
Fluorene	0.108	0.00029	mg/Kg	0.165	<0.000290	65.4	30-130			
Fluoranthene	0.111	0.00039	"	0.165	<0.000390	67.2	30-130			
Dibenz(a,h)anthracene	0.116	0.00036	"	0.165	<0.000360	70.3	30-130			
Chrysene	0.11	0.00027	"	0.165	<0.000270	66.6	30-130			
Benzo(k)fluoranthene	0.089	0.00013	"	0.165	<0.000130	53.9	30-130			
Benzo(b)fluoranthene	0.0909	0.00021	"	0.165	<0.000210	55	30-130			
Benzo(a)pyrene	0.118	0.00014	"	0.165	<0.000140	71.5	30-130			
Benzo(a)anthracene	0.121	0.00041	"	0.165	<0.000410	73.3	30-130			
Surrogate: 2-Fluorobiphenyl	48.1		"	0.33	164	48.1	33-115			
Surrogate: 4-Terphenyl-d14	60.6		"	0.33	199	60.6	33-122			
Surrogate: Nitrobenzene-d5	36.6		"	0.33	125	36.6	29-110			

LCS (LCS-L582760)		Prepared: 11/03/2021 Analyzed: 11/03/2021								
Benzo(b)fluoranthene	0.0997	0.00021	mg/Kg	0.167		59.7	30-130			
Naphthalene	0.0965	0.000467	"	0.167		57.7	30-130			
1-Methylnaphthalene	0.0996	0.00033	"	0.167		59.6	30-130			
Fluorene	0.112	0.00029	"	0.167		67	30-130			
Fluoranthene	0.115	0.00039	"	0.167		68.8	30-130			
Dibenz(a,h)anthracene	0.138	0.00036	"	0.167		82.6	30-130			
Chrysene	0.116	0.00027	"	0.167		69.4	30-130			
Benzo(k)fluoranthene	0.0963	0.00013	"	0.167		57.6	30-130			
Benzo(a)pyrene	0.13	0.00014	"	0.167		77.8	30-130			
Benzo(a)anthracene	0.126	0.00041	"	0.167		75.4	30-130			
Anthracene	0.11	0.00033	"	0.167		65.8	30-130			
Acenaphthene	0.11	0.0003	"	0.167		65.8	30-130			
Pyrene	0.114	0.00059	"	0.167		68.2	30-130			
2-Methylnaphthalene	0.1	0.00039	"	0.167		59.8	30-130			

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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 L582760 - 3550B

LCS (LCS-L582760) Prepared: 11/03/2021 Analyzed: 11/03/2021

Indeno(1,2,3-cd)pyrene	0.117	0.00029	mg/Kg	0.167		70	30-130			
Surrogate: 4-Terphenyl-d14	68.4		"	0.333		68.4	33-122			
Surrogate: 2-Fluorobiphenyl	54.3		"	0.333		54.3	33-115			
Surrogate: Nitrobenzene-d5	40.2		"	0.333		40.2	29-110			

LRB (LRB-L582760) Prepared: 11/03/2021 Analyzed: 11/03/2021

Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	45.3		"	0.333		45.3	29-110			
Surrogate: 4-Terphenyl-d14	66.3		"	0.333		66.3	33-122			
Surrogate: 2-Fluorobiphenyl	58.2		"	0.333		58.2	33-115			

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 Project: Noble - Loloff 2,3 B35-19

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 L582591 - 3550B

MSD (L 91816-MSD-L582591)		Source: 91816			Prepared: 11/03/2021 Analyzed: 11/03/2021					
Benzo(k)fluoranthene	0.08	0.00013	mg/Kg	0.165	<0.000130	48.4	30-130	5.8	30	
Naphthalene	0.0638	0.000467	"	0.165	<0.000467	38.6	30-130	14.5	30	
Indeno(1,2,3-cd)pyrene	0.0677	0.00029	"	0.165	<0.000290	41	30-130	12.3	30	
Fluorene	0.073	0.00029	"	0.165	<0.000290	44.2	30-130	16.8	30	
Fluoranthene	0.0877	0.00039	"	0.165	<0.000390	53.1	30-130	7.9	30	
Dibenz(a,h)anthracene	0.0699	0.00036	"	0.165	<0.000360	42.3	30-130	5.1	30	
Chrysene	0.0833	0.00027	"	0.165	<0.000270	50.4	30-130	7.1	30	
Pyrene	0.0878	0.00059	"	0.165	<0.000590	53.2	30-130	7	30	
Benzo(b)fluoranthene	0.0735	0.00021	"	0.165	<0.000210	44.5	30-130	2.8	30	
Benzo(a)pyrene	0.0854	0.00014	"	0.165	<0.000140	51.7	30-130	5.9	30	
Benzo(a)anthracene	0.0811	0.00041	"	0.165	<0.000410	49.1	30-130	7.8	30	
Anthracene	0.0812	0.00033	"	0.165	<0.000330	49.2	30-130	10.8	30	
Acenaphthene	0.0707	0.0003	"	0.165	<0.000300	42.8	30-130	16.7	30	
2-Methylnaphthalene	0.0654	0.00039	"	0.165	<0.000390	39.6	30-130	14.2	30	
1-Methylnaphthalene	0.0701	0.00033	"	0.165	<0.000330	42.4	30-130	6.6	30	
Surrogate: Nitrobenzene-d5	25.1		"	0.33	107	25.1	29-110			*
Surrogate: 2-Fluorobiphenyl	33		"	0.33	133	33	33-115			
Surrogate: 4-Terphenyl-d14	42.7		"	0.33	161	42.7	33-122			

MS (L 91816-MS-L582591)		Source: 91816			Prepared: 11/03/2021 Analyzed: 11/03/2021					
Chrysene	0.0895	0.00027	mg/Kg	0.166	<0.000270	53.9	30-130			
Benzo(b)fluoranthene	0.0756	0.00021	"	0.166	<0.000210	45.5	30-130			
1-Methylnaphthalene	0.0749	0.00033	"	0.166	<0.000330	45.1	30-130			
2-Methylnaphthalene	0.0754	0.00039	"	0.166	<0.000390	45.4	30-130			
Acenaphthene	0.0836	0.0003	"	0.166	<0.000300	50.3	30-130			
Anthracene	0.0905	0.00033	"	0.166	<0.000330	54.5	30-130			
Fluoranthene	0.095	0.00039	"	0.166	<0.000390	57.2	30-130			

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

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

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 L582591 - 3550B

MS (L 91816-MS-L582591)	Source: 91816			Prepared: 11/03/2021 Analyzed: 11/03/2021						
Benzo(a)pyrene	0.0906	0.00014	mg/Kg	0.166	<0.000140	54.5	30-130			
Pyrene	0.0942	0.00059	"	0.166	<0.000590	56.7	30-130			
Benzo(k)fluoranthene	0.0848	0.00013	"	0.166	<0.000130	51	30-130			
Dibenz(a,h)anthracene	0.0736	0.00036	"	0.166	<0.000360	44.3	30-130			
Fluorene	0.0864	0.00029	"	0.166	<0.000290	52	30-130			
Indeno(1,2,3-cd)pyrene	0.0766	0.00029	"	0.166	<0.000290	46.1	30-130			
Naphthalene	0.0738	0.000467	"	0.166	<0.000467	44.4	30-130			
Benzo(a)anthracene	0.0877	0.00041	"	0.166	<0.000410	52.8	30-130			
Surrogate: 2-Fluorobiphenyl	46.5		"	0.331	133	46.5	33-115			
Surrogate: 4-Terphenyl-d14	54.6		"	0.331	161	54.6	33-122			
Surrogate: Nitrobenzene-d5	35.6		"	0.331	107	35.6	29-110			

LCS (LCS-L582591)	Prepared: 11/03/2021 Analyzed: 11/03/2021									
Chrysene	0.0833	0.00027	mg/Kg	0.167		49.8	30-130			
Benzo(a)anthracene	0.082	0.00041	"	0.167		49.1	30-130			
Naphthalene	0.0664	0.000467	"	0.167		39.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0655	0.00029	"	0.167		39.2	30-130			
Fluorene	0.0743	0.00029	"	0.167		44.4	30-130			
Dibenz(a,h)anthracene	0.0668	0.00036	"	0.167		40	30-130			
Benzo(k)fluoranthene	0.0793	0.00013	"	0.167		47.4	30-130			
Fluoranthene	0.0859	0.00039	"	0.167		51.4	30-130			
Benzo(a)pyrene	0.0824	0.00014	"	0.167		49.3	30-130			
Pyrene	0.0859	0.00059	"	0.167		51.4	30-130			
Anthracene	0.0809	0.00033	"	0.167		48.4	30-130			
Acenaphthene	0.0734	0.0003	"	0.167		43.9	30-130			
2-Methylnaphthalene	0.0675	0.00039	"	0.167		40.4	30-130			
1-Methylnaphthalene	0.0724	0.00033	"	0.167		43.3	30-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: 815901465
 Project: Noble - Loloff 2,3 B35-19

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 L582591 - 3550B

LCS (LCS-L582591)

Prepared: 11/03/2021 Analyzed: 11/03/2021

Benzo(b)fluoranthene	0.0756	0.00021	mg/Kg	0.167		45.2	30-130			
Surrogate: Nitrobenzene-d5	33		"	0.333		33	29-110			
Surrogate: 4-Terphenyl-d14	52.2		"	0.333		52.2	33-122			
Surrogate: 2-Fluorobiphenyl	43.8		"	0.333		43.8	33-115			

LRB (LRB-L582591)

Prepared: 11/03/2021 Analyzed: 11/03/2021

Chrysene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	50.1		"	0.333		50.1	33-122			
Surrogate: Nitrobenzene-d5	34.8		"	0.333		34.8	29-110			
Surrogate: 2-Fluorobiphenyl	45.3		"	0.333		45.3	33-115			

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jake Whritenour
Project Number: 815901465
Project: Noble - Loloff 2,3 B35-19

Notes and Definitions

U Sample is Non-Detect.

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

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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 10, 2022

Tasman Geosciences

Jake Whritenour

6855 West 119th Avenue

Broomfield CO 80020

Project Name - Noble - Loloff 2,3 B35-19

Project Number - [none]

Attached are your analytical results for Noble - Loloff 2,3 B35-19 received by Origins Laboratory, Inc. February 28, 2022. This project is associated with Origins project number Y203003-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jake Whritenour
Project Number: [none]
Project: Noble - Loloff 2,3 B35-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG01@3'	Y203003-01	Soil	February 28, 2022 11:35	02/28/2022 16:30
BG01@5'	Y203003-02	Soil	February 28, 2022 11:40	02/28/2022 16:30

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Jake Whritenour
 Project Number: [none]
 Project: Noble - Loloff 2,3 B35-19

www.originslaboratory.com

page 1 of 1

1725000

ORIGINS
LABORATORY, INC

Client: Mobility/Tasman

Address: 6855 W. 119th Ave

Telephone Number: 303-887-1511

Email Address: JWhritenour@tasman-geo.com

Project Manager: Jake Whritenour

Project Name: Loloff 2,3, B35-19

Project Number: _____

Samples Collected By: Harley Marks

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9445

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other	
B601031	2/28/22	1135	2	X				X					1	
B601051	2/28/22	1146	2	X				X					2	
													3	
													4	
													5	
													6	
													7	
													8	
													9	
													10	

Relinquished By: <u>[Signature]</u>	Date: <u>2/28/22</u>	Time: <u>1130</u>	Received By: <u>[Signature]</u>	Date: <u>2/28/22</u>	Time: <u>1630</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

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

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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

Jake Whritenour
 Project Number: [none]
 Project: Noble - Loloff 2,3 B35-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y203003 Client: Tasman
 Checklist Completed by: SG Client Project ID: Loloff 2,3 B35-19
 Date/time completed: 3/1/22 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NTA
 Matrix(es) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: L, 13.3 °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 ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Same Day</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 (> ¼ 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 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"/>	
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) JP Date/Time Reviewed 3/2/22

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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

Jake Whritenour
 Project Number: [none]
 Project: Noble - Loloff 2,3 B35-19

BG01@3'

2/28/2022 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203003-01 (Soil)

pH in Soil by 9045D

pH	7.78			pH Units	1	B2C0204	03/02/2022	03/03/2022	
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Total Metals by 6020B

Arsenic	1.3	0.0855	0.25	mg/Kg	5	L602557	03/02/2022	03/07/2022	
Barium	53.9	0.042	0.25	"	"	"	"	"	
Cadmium	ND	0.0259	0.25	"	"	"	"	"	
Copper	4.35	0.0806	0.25	"	"	"	"	"	
Lead	4.25	0.031	0.25	"	"	"	"	"	
Nickel	4.81	0.0633	0.25	"	"	"	"	"	
Selenium	0.298	0.103	0.25	"	"	"	"	"	
Silver	ND	0.0067	0.25	"	"	"	"	"	
Zinc	17.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L603495	02/28/2022	03/08/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Jake Whritenour
Project Number: [none]
Project: Noble - Loloff 2,3 B35-19

BG01@5'

2/28/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203003-02 (Soil)

pH in Soil by 9045D

pH	7.67			pH Units	1	B2C0204	03/02/2022	03/03/2022	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Jake Whritenour
 Project Number: [none]
 Project: Noble - Loloff 2,3 B35-19

Saturated Paste - 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 B2C0204 - NO PREP

Duplicate (B2C0204-DUP1)

Source: Y202612-09

Prepared: 03/02/2022 Analyzed: 03/03/2022

pH	9.02		pH Units		9.10			0.883	25	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Jake Whritenour
 Project Number: [none]
 Project: Noble - Loloff 2,3 B35-19

Total Metals by 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 L602557 - 3050B

MSD (L 99871-MSD-L602557)		Source: 99871			Prepared: 03/02/2022 Analyzed: 03/07/2022					
Zinc	61	0.534	mg/Kg	23.7	39.3	92	75-125	200	80	
Arsenic	4.96	0.0855	"	2.37	2.93	86	75-125	200	80	
Barium	93.1	0.042	"	4.73	112	NR	75-125	200	80	*
Cadmium	0.567	0.0259	"	0.473	0.122	94	75-125	200	80	
Copper	9.65	0.0806	"	2.37	7.72	82	75-125	1.5	80	
Lead	10.6	0.031	"	2.37	8.49	89	75-125	200	80	
Nickel	12.1	0.0633	"	2.37	10.1	84	75-125	4.8	80	
Selenium	3.85	0.103	"	4.73	0.281	75	75-125	200	80	
Silver	0.52	0.0067	"	0.473	0.0456	100	75-125	200	80	

MS (L 99871-MS-L602557)		Source: 99871			Prepared: 03/02/2022 Analyzed: 03/09/2022					
Zinc	60.6	0.534	mg/Kg	24.7	37.7	93	75-125			
Silver	0.516	0.0067	"	0.495	0.0436	96	75-125			
Selenium	3.87	0.103	"	4.95	0.325	72	75-125			*
Nickel	12.7	0.0633	"	2.47	10.1	105	75-125			
Lead	10.9	0.031	"	2.47	8.52	96	75-125			
Copper	9.8	0.0806	"	2.47	7.72	84	75-125			
Cadmium	0.609	0.0259	"	0.495	0.131	97	75-125			
Arsenic	5.03	0.0855	"	2.47	3.19	74	75-125			*
Barium	116	0.042	"	4.95	114	40	75-125			*

LCS (LCS-L602557)		Prepared: 03/02/2022 Analyzed: 03/07/2022								
Cadmium	0.513	0.0259	mg/Kg	0.5		103	80-120			
Copper	2.56	0.0806	"	2.5		102	80-120			
Lead	2.46	0.031	"	2.5		98	80-120			
Nickel	2.66	0.0633	"	2.5		106	80-120			
Selenium	5.04	0.103	"	5		101	80-120			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Loloff 2,3 B35-19

Total Metals by 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 L602557 - 3050B

LCS (LCS-L602557)

Prepared: 03/02/2022 Analyzed: 03/07/2022

Silver	0.515	0.0067	mg/Kg	0.5		103	80-120			
Zinc	24.5	0.534	"	25		98	80-120			
Barium	5.14	0.042	"	5		103	80-120			
Arsenic	2.46	0.0855	"	2.5		98	80-120			

LRB (LRB-L602557)

Prepared: 03/02/2022 Analyzed: 03/07/2022

Barium	0.0611	0.25	mg/Kg				-			J
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Copper	ND	0.25	"				-			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Jake Whritenour
 Project Number: [none]
 Project: Noble - Loloff 2,3 B35-19

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L603495 -										
DUP (L 99333-DUP)		Source: 99333			Prepared: Analyzed: 03/08/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		99333		-	0	20	
MS (L 99333-MS)		Source: 99333			Prepared: Analyzed: 03/08/2022					
Chromium, Hexavalent	7.26	0.25	mg/Kg	8.22	99333	88	75-125			
LCS (LCS)		Prepared: Analyzed: 03/08/2022								
Chromium, Hexavalent	7.31	0.244	mg/Kg	8		91	75-125			
LRB (LRB)		Prepared: Analyzed: 03/08/2022								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Jake Whritenour
Project Number: [none]
Project: Noble - Loloff 2,3 B35-19

Notes and Definitions

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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