

Table 1

Soil Analytical Results
Lilli Unit 16-7
Chevron Corporation
Weld County, Colorado

Analyte	COGCC Table 915-1		Sample ID / Results					
			Date	3/2/2022	3/2/2022	3/2/2022	3/2/2022	3/2/2022
	Residential Soil Screening Level Concentrations and Cleanup Concentrations	Protection of Groundwater Soil Screening Level Concentrations	Units	WH-FS-01@6*	WH-SS-01@5*	WH-SS-02@5*	WH-SS-03@5*	WH-SS-04@5*
Soil Suitability for Reclamation								
EC	4	--	mmhos/cm	0.614	0.566	0.638	1.37	0.672
SAR	6	--	--	2.91	5.08	5.57	5.17	2.26
pH	6-8.3	--	--	8.03	8.26	8.19	8.02	7.98
boron	2	--	mg/L	0.237	0.218	0.178	0.160	0.317
Total Petroleum Hydrocarbons								
GRO	--	--	mg/kg	0.294	<0.200	<0.200	<0.200	2.28
DRO	--	--	mg/kg	<25.0	<25.0	<25.0	<25.0	<25.0
ORO	--	--	mg/kg	<100	<100	<100	<100	<100
TPH	500	--	mg/kg	0.294	<125.2	<125.2	<125.2	2.28
Organic Compounds in Soils								
benzene	1.2	0.0026 (M)	mg/kg	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
toluene	490	0.69 (M)	mg/kg	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
ethylbenzene	5.8	0.78 (M)	mg/kg	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
total xylenes	58	9.9 (M)	mg/kg	0.0118	<0.00200	<0.00200	<0.00200	0.206
naphthalene	2	0.0038 (R)	mg/kg	0.00308	0.00138	<0.00067	0.000808	0.0133
1,2,4-trimethylbenzene	30	0.0081 (R)	mg/kg	0.0111	<0.00200	<0.00200	<0.00200	0.0979
1,3,5-trimethylbenzene	27	0.0087 (R)	mg/kg	0.00690	<0.00200	<0.00200	0.00258	0.0895
acenaphthene	360	0.55 (R)	mg/kg	0.000702	<0.00067	<0.00067	0.000361	<0.00067
anthracene	1800	5.8 (R)	mg/kg	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
benz(a)anthracene	1.1	0.011 (R)	mg/kg	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
benzo(a)pyrene	0.11	0.24 (M)	mg/kg	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
benzo(b)fluoranthene	1.1	0.3 (R)	mg/kg	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
benzo(k)fluoranthene	11	2.9 (R)	mg/kg	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
chrysene	110	9 (R)	mg/kg	0.00367	0.00114	<0.00067	0.00121	0.0105
dibenzo(a,h)anthracene	0.11	0.096 (R)	mg/kg	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
fluoranthene	240	8.9 (R)	mg/kg	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
fluorene	240	0.54 (R)	mg/kg	0.00172	0.00076	<0.00067	0.000601	0.0139
indeno(1,2,3-cd)pyrene	1.1	0.98 (R)	mg/kg	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
pyrene	180	1.3 (R)	mg/kg	0.00152	<0.00067	<0.00067	0.00125	<0.00067
1-methylnaphthalene	18	0.006 (R)	mg/kg	0.00896	0.00305	<0.00067	0.00361	0.0738
2-methylnaphthalene	24	0.019 (R)	mg/kg	0.00541	0.00287	<0.00067	0.00217	0.039
Metals in Soils								
arsenic	0.68	0.29 (M)	mg/kg	--	--	--	--	8.41
barium	15000	82 (M)	mg/kg	--	--	--	--	54
cadmium	71	0.38 (M)	mg/kg	--	--	--	--	0.182
chromium (VI)	0.3	0.00067 (R)	mg/kg	--	--	--	--	<0.5
copper	3100	46 (M)	mg/kg	--	--	--	--	7.53
lead	400	14 (M)	mg/kg	--	--	--	--	28
nickel	1500	26 (R)	mg/kg	--	--	--	--	5.85
selenium	390	0.26 (M)	mg/kg	--	--	--	--	0.359
silver	390	0.8 (R)	mg/kg	--	--	--	--	0.0152
zinc	23,000	370(R)	mg/kg	--	--	--	--	26.9

Table 1

Soil Analytical Results
Lilli Unit 16-7
Chevron Corporation
Weld County, Colorado

Analyte	COGCC Table 915-1		Sample ID / Results						
			Date	3/30/2022	3/30/2022	3/30/2022	3/30/2022	3/30/2022	3/30/2022
	Residential Soil Screening Level Concentrations and Cleanup Concentrations	Protection of Groundwater Soil Screening Level Concentrations	Units	WH-FS-01@7'	WH-SS-04@6'	WH-SS-05@5'	WH-SS-06@5'	WH-SS-07@5'	BG01@5'
Soil Suitability for Reclamation									
EC	4	--	mmhos/cm	1.66	0.555	0.702	1.40	0.63	--
SAR	6	--	--	5.72	4.29	2.39	6.22	3.36	--
pH	6-8.3	--	--	7.77	8.35	7.74	7.97	7.93	7.65
boron	2	--	mg/L	0.161	0.262	0.180	0.139	0.323	--
Total Petroleum Hydrocarbons									
GRO	--	--	mg/kg	<0.200	0.809	<0.200	<0.200	<0.200	--
DRO	--	--	mg/kg	<25.0	167	47.4	<25.0	<25.0	--
ORO	--	--	mg/kg	<100	129	<100	<100	<100	--
TPH	500	--	mg/kg	<125.2	296.81	47.4	<125.2	<125.2	--
Organic Compounds in Soils									
benzene	1.2	0.0026 (M)	mg/kg	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--
toluene	490	0.69 (M)	mg/kg	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--
ethylbenzene	5.8	0.78 (M)	mg/kg	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--
total xylenes	58	9.9 (M)	mg/kg	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--
naphthalene	2	0.0038 (R)	mg/kg	<0.00067	0.00729	<0.00335	<0.00067	<0.00067	--
1,2,4-trimethylbenzene	30	0.0081 (R)	mg/kg	<0.00200	0.00892	<0.00200	<0.00200	<0.00200	--
1,3,5-trimethylbenzene	27	0.0087 (R)	mg/kg	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	--
acenaphthene	360	0.55 (R)	mg/kg	<0.00335	<0.00335	<0.00335	<0.00067	<0.00067	--
anthracene	1800	5.8 (R)	mg/kg	<0.00067	<0.00335	<0.00335	<0.00067	<0.00067	--
benz(a)anthracene	1.1	0.011 (R)	mg/kg	<0.00067	<0.00335	<0.00335	<0.00067	<0.00067	--
benzo(a)pyrene	0.11	0.24 (M)	mg/kg	<0.00067	0.00301	<0.00335	<0.00067	<0.00067	--
benzo(b)fluoranthene	1.1	0.3 (R)	mg/kg	<0.00067	0.00576	<0.00335	<0.00067	<0.00067	--
benzo(k)fluoranthene	11	2.9 (R)	mg/kg	<0.00067	<0.00335	<0.00335	<0.00067	<0.00067	--
chrysene	110	9 (R)	mg/kg	<0.00067	0.0391	0.00319	<0.00067	0.002	--
dibenzo(a,h)anthracene	0.11	0.096 (R)	mg/kg	<0.00067	<0.00335	<0.00335	<0.00067	<0.00067	--
fluoranthene	240	8.9 (R)	mg/kg	<0.00067	0.00274	<0.00335	<0.00067	<0.00067	--
fluorene	240	0.54 (R)	mg/kg	<0.00067	0.055	<0.00335	<0.00067	<0.00067	--
indeno(1,2,3-cd)pyrene	1.1	0.98 (R)	mg/kg	<0.00067	<0.00335	<0.00335	<0.00067	<0.00067	--
pyrene	180	1.3 (R)	mg/kg	<0.00067	0.0179	<0.00335	<0.00067	<0.00067	--
1-methylnaphthalene	18	0.006 (R)	mg/kg	<0.00067	0.106	<0.00335	<0.00067	<0.00067	--
2-methylnaphthalene	24	0.019 (R)	mg/kg	<0.00067	0.0653	<0.00335	<0.00067	<0.00067	--
Metals in Soils									
arsenic	0.68	0.29 (M)	mg/kg	7.22	2.19	--	--	--	0.721
barium	15000	82 (M)	mg/kg	23.8	34.5	--	--	--	--
cadmium	71	0.38 (M)	mg/kg	<0.25	<0.25	--	--	--	--
chromium (VI)	0.3	0.00067 (R)	mg/kg	<0.5	<0.514	--	--	--	--
copper	3100	46 (M)	mg/kg	10.2	8.04	--	--	--	--
lead	400	14 (M)	mg/kg	10.9	11.3	--	--	--	--
nickel	1500	26 (R)	mg/kg	7.64	3.81	--	--	--	--
selenium	390	0.26 (M)	mg/kg	0.331	0.257	--	--	--	0.2
silver	390	0.8 (R)	mg/kg	0.0086	0.0767	--	--	--	--
zinc	23,000	370(R)	mg/kg	36.7	22.4	--	--	--	--

Notes:

COGCC - Colorado Oil and Gas Conservation Commission
 < - indicates result is less than the laboratory reporting limit
 mg/kg - milligrams per kilogram
 EC - electrical conductivity
 SAR - sodium absorption ratio
 mmhos/cm - millimhoes per centimeter
 mg/L - miligrams per liter
 -- - Not applicable or not analyzed

Bold indicates result exceeds applicable standard

GRO - gasoline range organics

DRO - diesel range organics

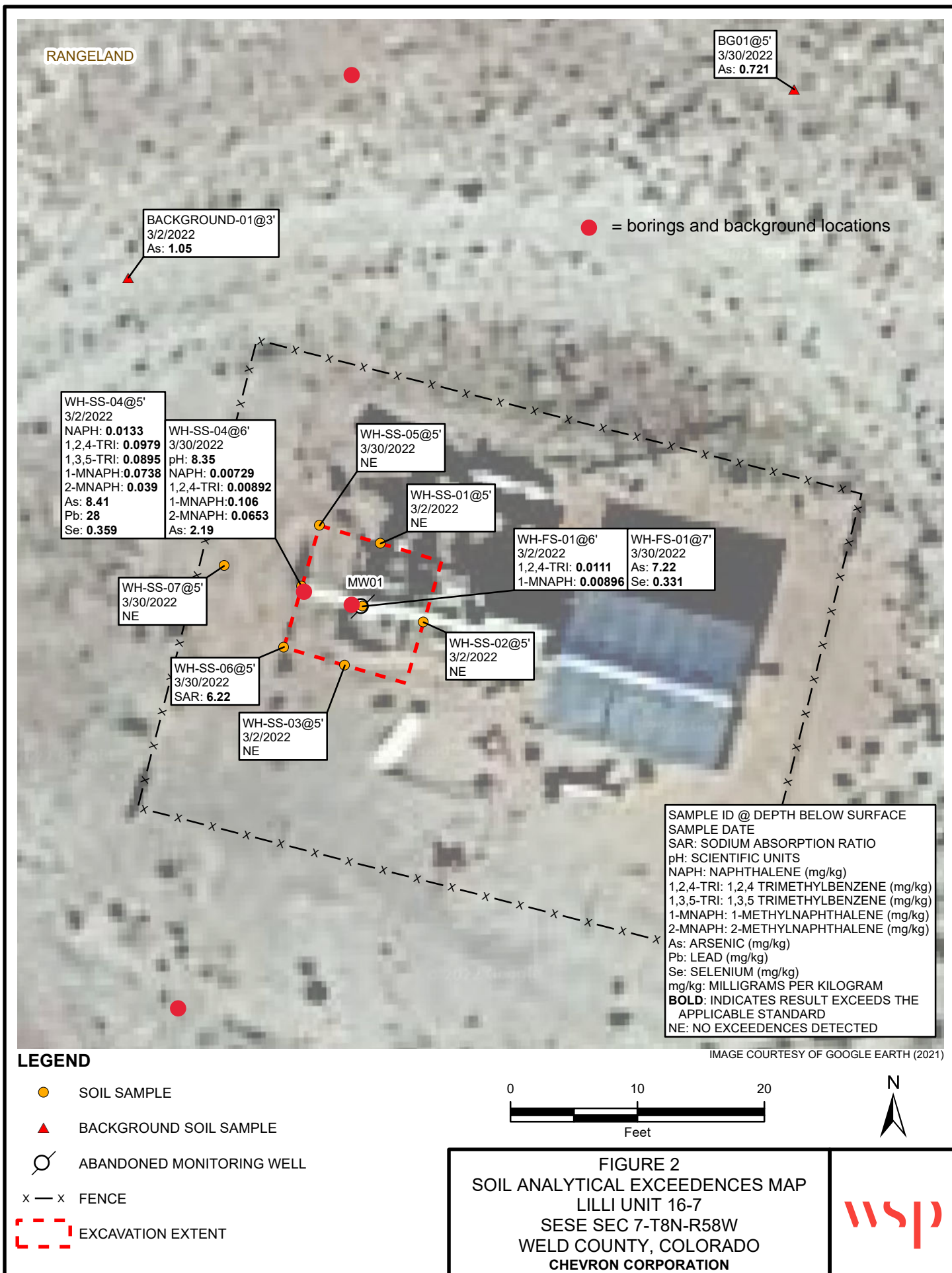
ORO - oil range organics

TPH - total petroleum hydrocarbons, the sum of GRO, DRO, and ORO

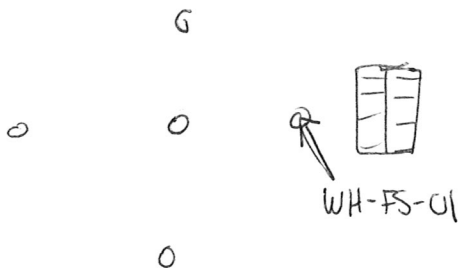
(M) - indicates concentration is derived from the drinking water maximum contaminant level

(R) - indicates concentration is derived from a risk-based approach

* - sampled by Eagle Environmental



Well Location Sketch:



WSP, USA
4600 W. 60th Avenue

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: WH-FS-01		Project: Lili	
Date: 3/30/22		Project Number:	
Logged By: K Malone		Drilled By: Site Services	
Drilling Method: DP, geoprobe		Sampling Method: DP, geoprobe	
Gravel Pack:		Seal:	
Casing Type:		Grout:	
Diameter:		Length:	
Hole Diameter: 2		Depth to Liquid:	
Screen Type:		Total Depth: 7	
Slot:		Depth to Water:	

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
		0.0	No	4, 1030	2		3.9/4	SC	sandy CLAY, f to m; mod brown with some light brown mottling; cohesive, stiff, w/ clay	
		0.0			4				- (3.0) - - - - - SAA except very stiff, pale yellowish brown.	
		0.0	No		6		3/3	CL	- 4.0 - - - - - SAA except CLAY; pale olive	
		0.0			7				7.0	
					8				END of Borehole at 7.0 ft BGS	
					10				filled with bentonite	
					12					
					14					
					16					
					18					

Well Location Sketch:



WSP, USA
4600 W. 60th Avenue

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: WH-SS-04	Project: Lili
Date: 3/30/22	Project Number:
Logged By: K Malone	Drilled By: Site Services
Drilling Method: DP, geoprobe	Sampling Method: cont.
Gravel Pack:	Seal:
Grout:	
Casing Type:	Diameter: Length: Hole Diameter: 2 Depth to Liquid:
Screen Type:	Slot: Diameter: Length: Total Depth: 6 Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
		0.0	NO		2			CL	sandy CLAY, vt to f, trace m; mod brown with some white calcification and light brown mottling; cohesive, firm, w2 PL	
		0.0	NO		4					
		6.3			6				(4.3') SAA except CLAY; light olive, v. stiff	
		61.8			8					
					10					
					12					
					14					
					16					
					18					

Well Location Sketch:

WH-SS-05 →



WSP, USA
4600 W. 60th Avenue

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: WH-SS-05	Project: Lilli
Date: 3/30/22	Project Number:
Logged By: K Malone	Drilled By: Site Service
Drilling Method: DP, geoprobe	Sampling Method: continuous
Elevation:	Detector:
Gravel Pack:	Seal:
Casing Type:	Diameter:
Screen Type:	Slot:
	Length:
	Hole Diameter: 2
	Depth to Liquid:
	Total Depth: 5
	Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	0.0		no	WH-SS-05 @ 5 ft, 1105	2			CL	sandy CLAY, f to m; mod brown with light olive staining; cohesive, firm to stiff, w < PL	
	0.1				4				-(2.5) - - - - - SAA except w < PL	
	0.6				6				END of BHT at 5.0 ft BGS	
					8					
					10					
					12					
					14					
					16					
					18					

filled with bentonite

Well Location Sketch:



WSP, USA
4600 W. 60th Avenue

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: WH-SS-06	Project: Lilli
Date: 3/30/22	Project Number:
Logged By: K Malone	Drilled By: Site Services
Drilling Method: DP, geoprobe	Sampling Method: continuous
Gravel Pack:	Seal:
Casing Type:	Grout:
Diameter:	Length:
Hole Diameter: 2	Depth to Liquid:
Screen Type:	Slot:
Diameter:	Length:
Total Depth: 5	Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	0.0	20		WH-SS-06@5ft, 1130	2			CL	CLAY; light olive; NC, soft to firm; WAPL, (3.6) — — — — —	
	0.0				4				SAA, except < PL.	
	0.0				6				END of BH at 5.0 ft BGS	
					8					
					10				filled with bentonite	
					12					
					14					
					16					
					18					

NOTES:

Well Location Sketch:



WSP, USA
4600 W. 60th Avenue

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: **WH-SS-07** Project: **Lilli**

Date: **3/30/22** Project Number:

Logged By: **K Malone** Drilled By: **Site Services**

Drilling Method: **DP, geoprobe** Sampling Method: **continuous**

Seal: Grout:

Elevation: Detector:

Gravel Pack:

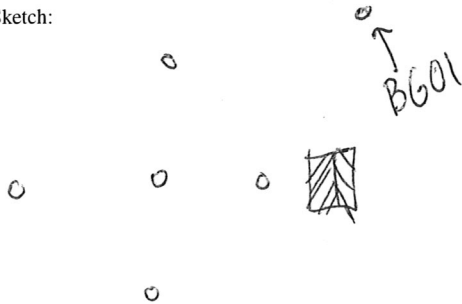
Casing Type: Diameter: Length: Hole Diameter: **2** Depth to Liquid: **-**

Screen Type: Slot: Diameter: Length: Total Depth: **5** Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
		0.0			2			CL	CLAY, some rf to f sand; mod brown and light olive mottling; cohesive, w~p, soft to firm	
		0.0			4				-(4.1) --- SAA, some white calcification seen	
		0.0			6				END of BH at 5.0ft BGS	
					8					
					10					
					12					
					14					
					16					
					18					

filled with bentonite

Well Location Sketch:



WSP, USA
4600 W. 60th Avenue

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BG01	Project: Lilli
Date: 3/30/22	Project Number:
Logged By: K Malone	Drilled By: Site Services
Drilling Method: DP, geoprobe	Sampling Method: continuous
Gravel Pack:	Seal:
Casing Type:	Grout:
Diameter:	Length:
Hole Diameter: 2	Depth to Liquid:
Screen Type:	Slot:
Diameter:	Length:
Total Depth: 5	Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	0.0		NO	BG01@5ft, 1140	2		5/5	CL	CLAY; light olive NC, very stiff, w/ PL.	
	0.0				4					
					6				END of Boring at 5ft BGS	
					8					
					10					
					12				filled with bentonite	
					14					
					16					
					18					

NOTES:

Page 1 of 1

Client: Nobel Energy

Project Manager: _____

Address: _____

Project Name: Lilli Unit #16-7

Telephone Number: 713-703-8585

Project Number: _____

Email Address: Kelly.malone@wsp.com

Samples Collected By: K Malone

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis				Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other						
WH-FS-01@7 ft	3/30/22	1030	2	X					X				X				1
WH-SS-04@5ft	3/30/22	1055	2	X					X				X				2
WH-SS-05@5ft	3/30/22	1105	2	X					X				X				3
WH-SS-07@5ft	3/30/22	1115	2	X					X				X				4
WH-SS-06@5ft	3/30/22	1130	2	X					X				X				5
BG 01@5ft	3/30/22	1140	2	X					X				X				6
																	7
																	8
																	9
																	10
Relinquished By: <u>Kellym</u>	Date: <u>3/30/22</u>	Time: <u>1720</u>	Received By: <u>K+I</u>				Date: <u>3/30/22</u>	Time: <u>1721</u>	Turnaround Time:								
Relinquished By:	Date:	Time:	Received By:				Date:	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"/>								

Temp Received- 7.1

Date Results Needed





April 20, 2022

WSP USA

Kelly Malone

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - Noble - Lilli Unit #16-7

Project Number - [none]

Attached are your analytical results for Noble - Lilli Unit #16-7 received by Origins Laboratory, Inc. March 30, 2022. This project is associated with Origins project number Y203806-01.

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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Kelly Malone

Project Number: [none]

Project: Noble - Lilli Unit #16-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7ft	Y203806-01	Soil	March 30, 2022 10:30	03/30/2022 17:21
WH-SS-04@6ft	Y203806-02	Soil	March 30, 2022 10:55	03/30/2022 17:21
WH-SS-05@5ft	Y203806-03	Soil	March 30, 2022 11:05	03/30/2022 17:21
WH-SS-07@5ft	Y203806-04	Soil	March 30, 2022 11:15	03/30/2022 17:21
WH-SS-06@5ft	Y203806-05	Soil	March 30, 2022 11:30	03/30/2022 17:21
BG01@5ft	Y203806-06	Soil	March 30, 2022 11:40	03/30/2022 17:21

Chain of Custody Modification Request

On 4/14/2022, Drew Bullinger from WSP USA contacted Jordan Bynon via email regarding Y203806 requesting that sample BG01@5ft be taken off hold and run for pH, Arsenic, and Selenium.

Requested modifications to the chain of custody were made by Jordan Bynon on 4/14/2022.

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.

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Kelly Malone

Project Number: [none]

Project: Noble - Lilli Unit #16-7

www.originslaboratory.com

page 1 of 1

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

ORIGINS
LABORATORY, INC

Client: Nobel Energy

Address: _____

Telephone Number: 713-703-5555

Email Address: Kelly.malone@wsp.com

Project Manager: _____

Project Name: Lilli Unit #16-7

Project Number: _____

Samples Collected By: K. Malone

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
WH-PS-0107A	3/30/22	1030	2	X				X				1
WH-SS-0406A	3/30/22	1055	2	X				X				2
WH-SS-0505A	3/30/22	1105	2	X				X				3
WH-SS-0705A	3/30/22	1115	2	X				X				4
WH-SS-0805A	3/30/22	1130	2	X				X				5
GG0105A	3/30/22	1140	2	X				X				6
												7
												8
												9
												10

Relinquished By: Kelly Malone Date: 3/30/22 Time: 1720

Relinquished By: _____ Date: _____ Time: _____

Received By: KH Date: 3/26/20 Time: 1721

Received By: _____ Date: _____ Time: _____

Turnaround Time: ☐ Same Day ☐ 24 Hr ☐ 48 Hr ☒ Standard

Temp Received: 7.1 Date Results Needed: _____

Origins Laboratory, Inc.

J. Bynon

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.

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Kelly Malone

Project Number: [none]

Project: Noble - Lilli Unit #16-7

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y2038000 Client: WSP
Client Project ID: Lilli Unit 16-7

Checklist Completed by: SL Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 3/31/22 Airbill #: N/A

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

Cooler Number/Temperature: 17.1 °C 1 °C 1 °C 1 °C
(Describe)

Thermometer ID: T004

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 4/1/22

Origins Laboratory, Inc.

J. Bynon

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-FS-01@7ft
3/30/2022 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203806-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.161	0.101	mg/L	1	B2D0110	04/01/2022	04/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C3107	03/31/2022	04/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	109 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D0506	04/05/2022	04/08/2022	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	120 %	70-130			"	"	"	
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-FS-01@7ft

3/30/2022 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203806-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.3 %	70-130	B2D05 06	04/05/2022	04/08/2022
Surrogate: 4-Bromofluorobenzene	97.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	4.31	0.499	meq/L	10	[CALC]	04/01/2022	04/05/2022
Magnesium	2.20	0.823	"	"	"	"	"
Sodium	10.3	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L609198	04/06/2022	04/07/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-FS-01@7ft
3/30/2022 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203806-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L609198	04/06/2022	04/07/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63.1 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	86.2 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	50.8 %		29-110			"	"	"

pH in Soil by 9045D

pH	7.77			pH Units	1	B2D0407	04/04/2022	04/05/2022
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SAR by 20B Saturated Paste

SAR	5.72			SAR	1	B2D0108	04/01/2022	04/05/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.66		0.00500	mmhos/cm	1	B2D0406	04/04/2022	04/05/2022
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Total Metals by 6020B

Arsenic	7.22	0.0855	0.25	mg/Kg	5	L609226	04/06/2022	04/07/2022
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-FS-01@7ft

3/30/2022 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203806-01 (Soil)

Total Metals by 6020B

Barium	23.8	0.042	0.25	mg/Kg	5	L609226	04/06/2022	04/07/2022	
Cadmium	ND	0.0259	0.25	"	"	"	"	"	
Copper	10.2	0.0806	0.25	"	"	"	"	"	
Lead	10.9	0.031	0.25	"	"	"	"	"	
Nickel	7.64	0.0633	0.25	"	"	"	"	"	
Selenium	0.331	0.103	0.25	"	"	"	"	"	
Silver	0.0086	0.0067	0.25	"	"	"	"	"	J
Zinc	36.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L610017	03/30/2022	04/11/2022	
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-SS-04@6ft
3/30/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203806-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.262	0.101	mg/L	1	B2D0110	04/01/2022	04/04/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	167	25.0	mg/kg	1	B2C3107	03/31/2022	04/05/2022
Residual Range Organics (C28-C40)	129	100	"	"	"	"	"

Surrogate: o-Terphenyl	121 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00892	0.00200	mg/kg	1	B2D0506	04/05/2022	04/08/2022
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	0.809	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"
Surrogate: Toluene-d8	93.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-SS-04@6ft

3/30/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203806-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	98.4 %	70-130	B2D0506	04/05/2022	04/08/2022
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Metals by Saturated Paste by EPA 6010

Calcium	1.05	0.499	meq/L	10	[CALC]	04/01/2022	04/05/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.74	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.106	0.00182	0.00335	mg/Kg	5	L609198	04/06/2022	04/07/2022
2-Methylnaphthalene	0.0653	0.00323	0.00335	"	"	"	"	"
Acenaphthene	0.00908	0.00152	0.00335	"	"	"	"	"
Anthracene	ND	0.00167	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"
Benzo(a)pyrene	0.00301	0.00234	0.00335	"	"	"	"	" J
Benzo(b)fluoranthene	0.00576	0.00293	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"
Chrysene	0.0391	0.00312	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"
Fluoranthene	0.00274	0.00197	0.00335	"	"	"	"	" J
Fluorene	0.055	0.00143	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-SS-04@6ft

3/30/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203806-02 (Soil)

PAH by 8270D SIM

Naphthalene	0.00729	0.00242	0.00335	mg/Kg	5	L609198	04/06/2022	04/07/2022	
Pyrene	0.0179	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	64 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	78.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	44.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.35			pH Units	1	B2D0407	04/04/2022	04/05/2022	
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SAR by 20B Saturated Paste

SAR	4.29			SAR	1	B2D0108	04/01/2022	04/05/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.555		0.00500	mmhos/cm	1	B2D0406	04/04/2022	04/05/2022	
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Total Metals by 6020B

Arsenic	2.19	0.0855	0.25	mg/Kg	5	L609226	04/06/2022	04/07/2022	
Barium	34.5	0.042	0.25	"	"	"	"	"	
Cadmium	0.0302	0.0259	0.25	"	"	"	"	"	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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-SS-04@6ft

3/30/2022 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203806-02 (Soil)

Total Metals by 6020B

Copper	8.04	0.0806	0.25	mg/Kg	5	L609226	04/06/2022	04/07/2022	
Lead	11.3	0.031	0.25	"	"	"	"	"	
Nickel	3.81	0.0633	0.25	"	"	"	"	"	
Selenium	0.257	0.103	0.25	"	"	"	"	"	
Silver	0.0767	0.0067	0.25	"	"	"	"	"	J
Zinc	22.4	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L610017	03/30/2022	04/11/2022	
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-SS-05@5ft
3/30/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203806-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.180	0.100	mg/L	1	B2D0110	04/01/2022	04/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	47.4	25.0	mg/kg	1	B2C3107	03/31/2022	04/06/2022	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	115 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D0506	04/05/2022	04/08/2022	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	121 %	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	93.2 %	70-130	"	"	"	"	"	

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-SS-05@5ft

3/30/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203806-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	99.0 %	70-130	B2D05 06	04/05/2022	04/08/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.64	0.499	meq/L	10	[CALC]	04/01/2022	04/05/2022
Magnesium	0.872	0.823	"	"	"	"	"
Sodium	3.17	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L609198	04/06/2022	04/07/2022
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"
Anthracene	ND	0.00167	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"
Chrysene	0.00319	0.00312	0.00335	"	"	"	"	" J
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"
Fluorene	ND	0.00143	0.00335	"	"	"	"	"

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-SS-05@5ft

3/30/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203806-03 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	mg/Kg	5	L609198	04/06/2022	04/07/2022
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"
Pyrene	ND	0.00322	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	45.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.74	pH Units	1	B2D0407	04/04/2022	04/05/2022
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SAR by 20B Saturated Paste

SAR	2.39	SAR	1	B2D0108	04/01/2022	04/05/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.702	0.00500	mmhos/cm	1	B2D0406	04/04/2022	04/05/2022
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-SS-07@5ft

3/30/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203806-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.323	0.101	mg/L	1	B2D0110	04/01/2022	04/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C3107	03/31/2022	04/06/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	110 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D0506	04/05/2022	04/08/2022	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	120 %	70-130	"	"	"
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-SS-07@5ft

3/30/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203806-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.0 %	70-130	B2D0506	04/05/2022	04/08/2022
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.66	0.499	meq/L	10	[CALC]	04/01/2022	04/05/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.59	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L609198	04/06/2022	04/07/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.002	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Kelly Malone

Project Number: [none]

Project: Noble - Lilli Unit #16-7

WH-SS-07@5ft

3/30/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y203806-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L609198	04/06/2022	04/07/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	70.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	82.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.93	pH Units	1	B2D0408	04/04/2022	04/05/2022
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SAR by 20B Saturated Paste

SAR	3.36	SAR	1	B2D0109	04/01/2022	04/05/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.634	0.00500	mmhos/cm	1	B2D0409	04/04/2022	04/05/2022
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-SS-06@5ft

3/30/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203806-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.139	0.0994	mg/L	1	B2D0110	04/01/2022	04/04/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C3107	03/31/2022	04/06/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	121 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D0506	04/05/2022	04/08/2022	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	117 %	70-130	"	"	"	"	"	
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-SS-06@5ft

3/30/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203806-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.4 %	70-130	B2D05 06	04/05/2022	04/08/2022
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.25	0.499	meq/L	10	[CALC]	04/01/2022	04/05/2022
Magnesium	1.53	0.823	"	"	"	"	"
Sodium	9.63	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L609198	04/06/2022	04/07/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

WH-SS-06@5ft

3/30/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203806-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L609198	04/06/2022	04/07/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	71.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	48.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.97	pH Units	1	B2D0408	04/04/2022	04/05/2022
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SAR by 20B Saturated Paste

SAR	6.22	SAR	1	B2D0109	04/01/2022	04/05/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.40	0.00500	mmhos/cm	1	B2D0409	04/04/2022	04/05/2022
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

BG01@5ft

3/30/2022 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203806-06 (Soil)

pH in Soil by 9045D

pH	7.62			pH Units	1	B2D1417	04/14/2022	04/15/2022	
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Total Metals by 6020B

Arsenic	0.721	0.0855	0.25	mg/Kg	5	L611404	04/18/2022	04/19/2022	
Selenium	0.2	0.103	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Kelly Malone

Project Number: [none]

Project: Noble - Lilli Unit #16-7

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 B2C3107 - EPA 3550B										
Blank (B2C3107-BLK1)					Prepared: 03/31/2022 Analyzed: 04/05/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	30		"	24.9		120	50-150			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Kelly Malone

Project Number: [none]

Project: Noble - Lilli Unit #16-7

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 B2C3107 - EPA 3550B

LCS (B2C3107-BS1)

Prepared: 03/31/2022 Analyzed: 04/05/2022

Diesel (C10-C28)	1130	50.0	mg/kg	1000		113	70-130			
Residual Range Organics (C28-C40)	1180	200	"	1000		118	70-130			
Surrogate: o-Terphenyl	70		"	49.8		140	50-150			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Kelly Malone

Project Number: [none]

Project: Noble - Lilli Unit #16-7

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 B2C3107 - EPA 3550B

Matrix Spike (B2C3107-MS1)		Source: Y203800-01			Prepared: 03/31/2022 Analyzed: 04/06/2022					
Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Kelly Malone

Project Number: [none]

Project: Noble - Lilli Unit #16-7

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 B2C3107 - EPA 3550B

Matrix Spike Dup (B2C3107-MSD1)		Source: Y203800-01			Prepared: 03/31/2022 Analyzed: 04/05/2022					
Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	70-130	21.9	35	
Residual Range Organics (C28-C40)	1230	200	"	1000	ND	123	70-130	6.19	35	
Surrogate: o-Terphenyl	62		"	49.8		125	50-150			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

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 B2D0506 - EPA 5030 (soil)										
Blank (B2D0506-BLK1)					Prepared: 04/05/2022 Analyzed: 04/07/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Kelly Malone

Project Number: [none]

Project: Noble - Lilli Unit #16-7

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 B2D0506 - EPA 5030 (soil)

LCS (B2D0506-BS1)

Prepared: 04/05/2022 Analyzed: 04/07/2022

1,2,4-Trimethylbenzene	0.0987	0.00200	mg/kg	0.100		98.7	70-130			
1,3,5-Trimethylbenzene	0.0987	0.00200	"	0.100		98.7	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.0959	0.00200	"	0.100		95.9	70-130			
Naphthalene	0.109	0.0100	"	0.100		109	70-130			
Toluene	0.0978	0.00200	"	0.100		97.8	70-130			
o-Xylene	0.0984	0.00200	"	0.100		98.4	70-130			
m,p-Xylene	0.193	0.00400	"	0.200		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Kelly Malone

Project Number: [none]

Project: Noble - Lilli Unit #16-7

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 B2D0506 - EPA 5030 (soil)

Matrix Spike (B2D0506-MS1)		Source: Y203761-02			Prepared: 04/05/2022 Analyzed: 04/07/2022					
1,2,4-Trimethylbenzene	0.0978	0.00200	mg/kg	0.100	ND	97.8	70-130			
1,3,5-Trimethylbenzene	0.0979	0.00200	"	0.100	ND	97.9	70-130			
Benzene	0.0963	0.00200	"	0.100	ND	96.3	70-130			
Ethylbenzene	0.0951	0.00200	"	0.100	ND	95.1	70-130			
Naphthalene	0.112	0.0100	"	0.100	ND	112	70-130			
Toluene	0.0954	0.00200	"	0.100	ND	95.4	70-130			
o-Xylene	0.0973	0.00200	"	0.100	ND	97.3	70-130			
m,p-Xylene	0.190	0.00400	"	0.200	ND	95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Kelly Malone

Project Number: [none]

Project: Noble - Lilli Unit #16-7

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 B2D0506 - EPA 5030 (soil)

Matrix Spike Dup (B2D0506-MSD1)		Source: Y203761-02			Prepared: 04/05/2022 Analyzed: 04/07/2022					
1,2,4-Trimethylbenzene	0.0958	0.00200	mg/kg	0.100	ND	95.8	70-130	2.07	20	
1,3,5-Trimethylbenzene	0.0955	0.00200	"	0.100	ND	95.5	70-130	2.52	20	
Benzene	0.0957	0.00200	"	0.100	ND	95.7	70-130	0.542	20	
Ethylbenzene	0.0924	0.00200	"	0.100	ND	92.4	70-130	2.86	20	
Naphthalene	0.114	0.0100	"	0.100	ND	114	70-130	1.70	20	
Toluene	0.0946	0.00200	"	0.100	ND	94.6	70-130	0.863	20	
o-Xylene	0.0956	0.00200	"	0.100	ND	95.6	70-130	1.70	20	
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.6	70-130	2.68	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

Origins Laboratory, Inc.



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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

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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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 B2D0406 - NO PREP

Blank (B2D0406-BLK1)

Prepared: 04/04/2022 Analyzed: 04/05/2022

Specific Conductance (EC) 0.000800 0.00500 mmhos/cm

Duplicate (B2D0406-DUP1)

Source: Y203798-03

Prepared: 04/04/2022 Analyzed: 04/05/2022

Specific Conductance (EC) 1.05 0.00500 mmhos/cm 1.14 8.17 25

Batch B2D0407 - NO PREP

Duplicate (B2D0407-DUP1)

Source: Y203798-03

Prepared: 04/04/2022 Analyzed: 04/05/2022

pH 7.39 pH Units 7.39 0.00 25

Batch B2D0408 - NO PREP

Duplicate (B2D0408-DUP1)

Source: Y203806-04

Prepared: 04/04/2022 Analyzed: 04/05/2022

pH 7.90 pH Units 7.93 0.379 25

Batch B2D0409 - NO PREP

Blank (B2D0409-BLK1)

Prepared: 04/04/2022 Analyzed: 04/05/2022

Specific Conductance (EC) 0.000800 0.00500 mmhos/cm

Duplicate (B2D0409-DUP1)

Source: Y203806-04

Prepared: 04/04/2022 Analyzed: 04/05/2022

Specific Conductance (EC) 0.622 0.00500 mmhos/cm 0.634 1.85 25

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

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 B2D1417 - NO PREP

Duplicate (B2D1417-DUP1)

Source: Y204256-01

Prepared: 04/14/2022 Analyzed: 04/15/2022

pH	7.62		pH Units	7.92				3.86	25	
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WSP USA
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Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

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
Batch L611404 - 3050B										
MSD (L 94010-MSD-L611404)			Source: 94010		Prepared: 04/18/2022 Analyzed: 04/19/2022					
Selenium	3.54	0.103	mg/Kg	4.6	0.324	70	75-125	17	80	*
Arsenic	5.03	0.0855	"	2.3	3.12	83	75-125	9.3	80	
MS (L 94010-MS-L611404)			Source: 94010		Prepared: 04/18/2022 Analyzed: 04/19/2022					
Arsenic	4.58	0.0855	mg/Kg	2.48	3.12	59	75-125			*
Selenium	4.2	0.103	"	4.95	0.324	78	75-125			
LCS (LCS-L611404)			Prepared: 04/18/2022 Analyzed: 04/19/2022							
Arsenic	2.57	0.0855	mg/Kg	2.5		103	80-120			
Selenium	5.33	0.103	"	5		107	80-120			
LRB (LRB-L611404)			Prepared: 04/18/2022 Analyzed: 04/19/2022							
Arsenic	ND	0.25	mg/Kg				-			
Selenium	ND	0.25	"				-			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

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 L609198 - 3550B

MSD (L 96233-MSD-L609198)		Source: 96233			Prepared: 04/06/2022 Analyzed: 04/07/2022					
Fluorene	0.13	0.00143	mg/Kg	0.165	0.0224	65.2	30-130	3.1	30	
1-Methylnaphthalene	0.119	0.00182	"	0.165	0.0156	62.6	30-130	6	30	
2-Methylnaphthalene	0.112	0.00323	"	0.165	0.0113	61	30-130	4.5	30	
Naphthalene	0.106	0.00242	"	0.165	0.00333	62.2	30-130	2.8	30	
Benzo(a)anthracene	0.118	0.00247	"	0.165	<0.00247	71.5	30-130	0	30	
Indeno(1,2,3-cd)pyrene	0.0838	0.00314	"	0.165	<0.00314	50.7	30-130	5.2	30	
Benzo(k)fluoranthene	0.108	0.00219	"	0.165	<0.00219	65.4	30-130	0.9	30	
Fluoranthene	0.117	0.00197	"	0.165	0.00258	69.3	30-130	2.5	30	
Anthracene	0.115	0.00167	"	0.165	<0.00167	69.6	30-130	1.7	30	
Dibenz(a,h)anthracene	0.104	0.00307	"	0.165	<0.00307	63	30-130	1.9	30	
Pyrene	0.123	0.00322	"	0.165	0.0049	71.5	30-130	2.4	30	
Chrysene	0.122	0.00312	"	0.165	<0.00312	73.9	30-130	5.9	30	
Benzo(a)pyrene	0.119	0.00234	"	0.165	0.00384	69.7	30-130	1.6	30	
Benzo(b)fluoranthene	0.0996	0.00293	"	0.165	0.00348	58.2	30-130	0.4	30	
Acenaphthene	0.108	0.00152	"	0.165	0.00241	63.9	30-130	1.8	30	
Surrogate: Nitrobenzene-d5	72.7		"	0.33	155	72.7	29-110			
Surrogate: 4-Terphenyl-d14	83.3		"	0.33	266	83.3	33-122			
Surrogate: 2-Fluorobiphenyl	64.8		"	0.33	210	64.8	33-115			

MS (L 96233-MS-L609198)		Source: 96233			Prepared: 04/06/2022 Analyzed: 04/07/2022					
Fluoranthene	0.12	0.00197	mg/Kg	0.164	0.00258	71.5	30-130			
Pyrene	0.12	0.00322	"	0.164	0.0049	70.1	30-130			
Naphthalene	0.103	0.00242	"	0.164	0.00333	60.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0883	0.00314	"	0.164	<0.00314	53.8	30-130			
Fluorene	0.126	0.00143	"	0.164	0.0224	63.1	30-130			
1-Methylnaphthalene	0.112	0.00182	"	0.164	0.0156	58.7	30-130			
Chrysene	0.115	0.00312	"	0.164	<0.00312	70.1	30-130			

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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

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 L609198 - 3550B

MS (L 96233-MS-L609198)		Source: 96233			Prepared: 04/06/2022 Analyzed: 04/07/2022					
Benzo(k)fluoranthene	0.107	0.00219	mg/Kg	0.164	<0.00219	65.2	30-130			
Benzo(b)fluoranthene	0.1	0.00293	"	0.164	0.00348	58.8	30-130			
Benzo(a)anthracene	0.118	0.00247	"	0.164	<0.00247	71.9	30-130			
Anthracene	0.113	0.00167	"	0.164	<0.00167	68.9	30-130			
Acenaphthene	0.106	0.00152	"	0.164	0.00241	63.1	30-130			
2-Methylnaphthalene	0.107	0.00323	"	0.164	0.0113	58.3	30-130			
Benzo(a)pyrene	0.117	0.00234	"	0.164	0.00384	69	30-130			
Dibenz(a,h)anthracene	0.102	0.00307	"	0.164	<0.00307	62.1	30-130			
Surrogate: 2-Fluorobiphenyl	61		"	0.329	210	61	33-115			
Surrogate: Nitrobenzene-d5	69.3		"	0.329	155	69.3	29-110			
Surrogate: 4-Terphenyl-d14	77.8		"	0.329	266	77.8	33-122			

LCS (LCS-L609198)

Prepared: 04/06/2022 Analyzed: 04/07/2022

Dibenz(a,h)anthracene	0.095	0.000614	mg/Kg	0.167		56.8	30-130
Fluoranthene	0.106	0.000394	"	0.167		63.4	30-130
Fluorene	0.0998	0.000286	"	0.167		59.7	30-130
Indeno(1,2,3-cd)pyrene	0.085	0.000627	"	0.167		50.8	30-130
Naphthalene	0.0924	0.000484	"	0.167		55.3	30-130
Chrysene	0.102	0.000624	"	0.167		61	30-130
Pyrene	0.108	0.000643	"	0.167		64.6	30-130
Benzo(k)fluoranthene	0.0989	0.000437	"	0.167		59.2	30-130
Benzo(b)fluoranthene	0.0981	0.000585	"	0.167		58.7	30-130
Benzo(a)pyrene	0.0988	0.000468	"	0.167		59.1	30-130
Benzo(a)anthracene	0.104	0.000493	"	0.167		62.2	30-130
Acenaphthene	0.0927	0.000304	"	0.167		55.5	30-130
2-Methylnaphthalene	0.0907	0.000645	"	0.167		54.3	30-130
1-Methylnaphthalene	0.09	0.000364	"	0.167		53.8	30-130

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

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
Batch L609198 - 3550B										
LCS (LCS-L609198)					Prepared: 04/06/2022 Analyzed: 04/07/2022					
Anthracene	0.0991	0.000334	mg/Kg	0.167		59.3	30-130			
Surrogate: 4-Terphenyl-d14	77.4		"	0.333		77.4	33-122			
Surrogate: Nitrobenzene-d5	67.5		"	0.333		67.5	29-110			
Surrogate: 2-Fluorobiphenyl	59.1		"	0.333		59.1	33-115			
LRB (LRB-L609198)					Prepared: 04/06/2022 Analyzed: 04/07/2022					
Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	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	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	62.1		"	0.333		62.1	33-115			
Surrogate: 4-Terphenyl-d14	77.4		"	0.333		77.4	33-122			
Surrogate: Nitrobenzene-d5	69		"	0.333		69	29-110			

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Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L609226 - 3050B										
MSD (L 89095-MSD-L609226)			Source: 89095		Prepared: 04/06/2022 Analyzed: 04/07/2022					
Zinc	71.9	0.534	mg/Kg	23.3	49.8	95	75-125	0.6	80	
Arsenic	4.43	0.0855	"	2.33	3.23	52	75-125	0.6	80	*
Silver	0.54	0.0067	"	0.465	0.0898	97	75-125	3.2	80	
Selenium	3.69	0.103	"	4.65	0.391	71	75-125	6.1	80	*
Nickel	12	0.0633	"	2.33	9.82	94	75-125	1.6	80	
Lead	14.2	0.031	"	2.33	12.5	73	75-125	3.4	80	*
Copper	13.5	0.0806	"	2.33	11.5	86	75-125	0.7	80	
Barium	102	0.042	"	4.65	111	NR	75-125	1.9	80	*
Cadmium	0.707	0.0259	"	0.465	0.276	93	75-125	2.8	80	
MS (L 89095-MS-L609226)			Source: 89095		Prepared: 04/06/2022 Analyzed: 04/07/2022					
Selenium	3.47	0.103	mg/Kg	4.6	0.391	67	75-125			*
Arsenic	4.4	0.0855	"	2.3	3.23	51	75-125			*
Barium	100	0.042	"	4.6	111	NR	75-125			*
Cadmium	0.687	0.0259	"	0.46	0.276	89	75-125			
Copper	13.6	0.0806	"	2.3	11.5	91	75-125			
Nickel	12.2	0.0633	"	2.3	9.82	104	75-125			
Silver	0.558	0.0067	"	0.46	0.0898	102	75-125			
Zinc	72.4	0.534	"	23	49.8	98	75-125			
Lead	14.7	0.031	"	2.3	12.5	96	75-125			
LCS (LCS-L609226)			Prepared: 04/06/2022 Analyzed: 04/07/2022							
Barium	5.03	0.042	mg/Kg	5		101	80-120			
Zinc	25	0.534	"	25		100	80-120			
Silver	0.515	0.0067	"	0.5		103	80-120			
Selenium	5.01	0.103	"	5		100	80-120			
Nickel	2.5	0.0633	"	2.5		100	80-120			

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Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

Total Metals by 6020B - 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 L609226 - 3050B

LCS (LCS-L609226)

Prepared: 04/06/2022 Analyzed: 04/07/2022

Cadmium	0.501	0.0259	mg/Kg	0.5		100	80-120			
Arsenic	2.55	0.0855	"	2.5		102	80-120			
Lead	2.44	0.031	"	2.5		98	80-120			
Copper	2.41	0.0806	"	2.5		96	80-120			

LRB (LRB-L609226)

Prepared: 04/06/2022 Analyzed: 04/07/2022

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

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Kelly Malone
Project Number: [none]
Project: Noble - Lilli Unit #16-7

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L610017 -										
DUP (L 89100-DUP)	Source: 89100				Prepared: Analyzed: 04/11/2022					
Chromium, Hexavalent	ND	1.22	mg/Kg		<2.50	-		0	20	
MS (L 89100-MS)	Source: 89100				Prepared: Analyzed: 04/11/2022					
Chromium, Hexavalent	4.55	1.22	mg/Kg	7.89	<1.22	58	75-125			*
LCS (LCS)					Prepared: Analyzed: 04/11/2022					
Chromium, Hexavalent	6.64	0.244	mg/Kg	8		83	75-125			
LRB (LRB)					Prepared: Analyzed: 04/11/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Kelly Malone

Project Number: [none]

Project: Noble - Lilli Unit #16-7

Notes and Definitions

U Sample is Non-Detect.

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.

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