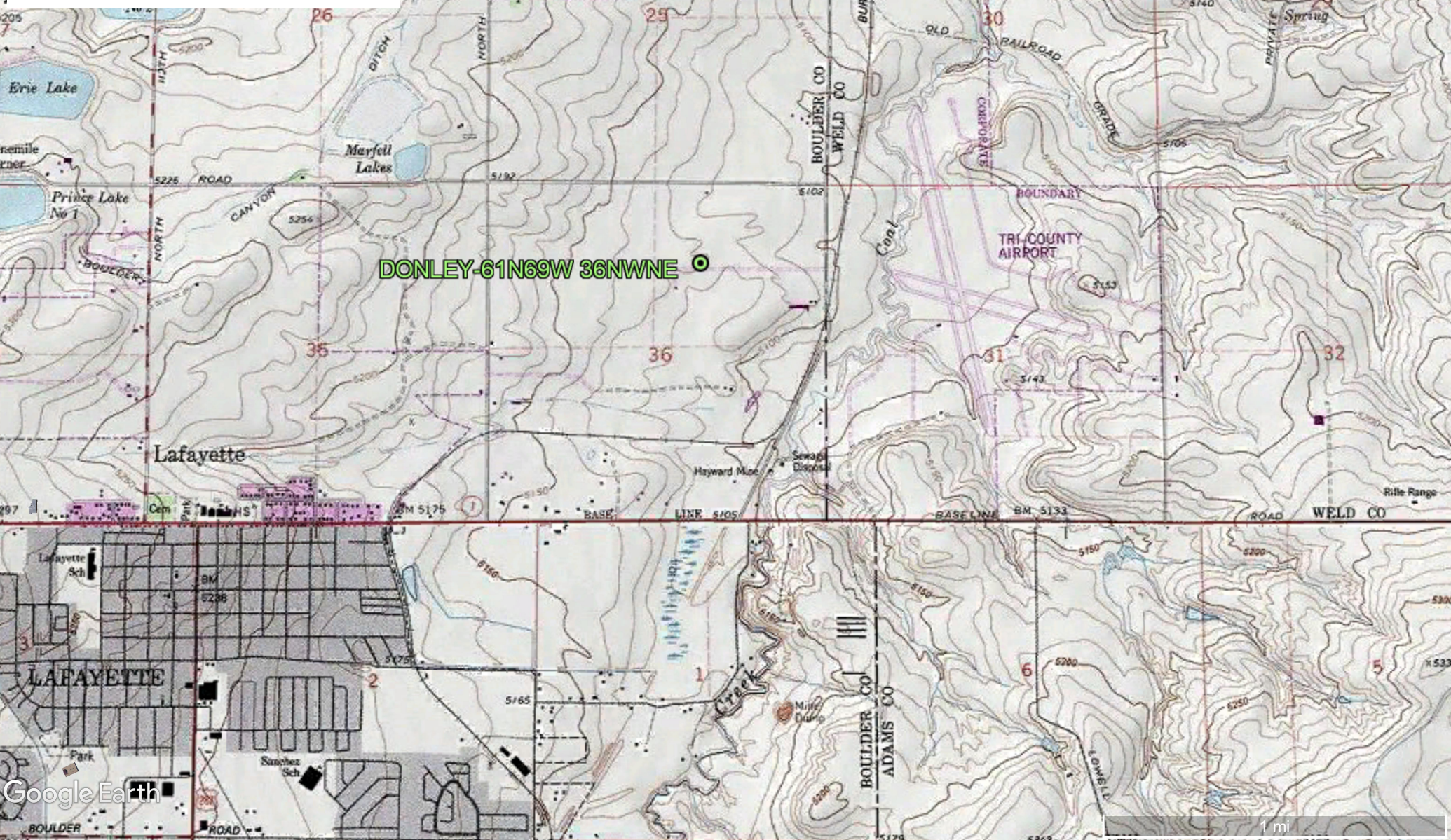


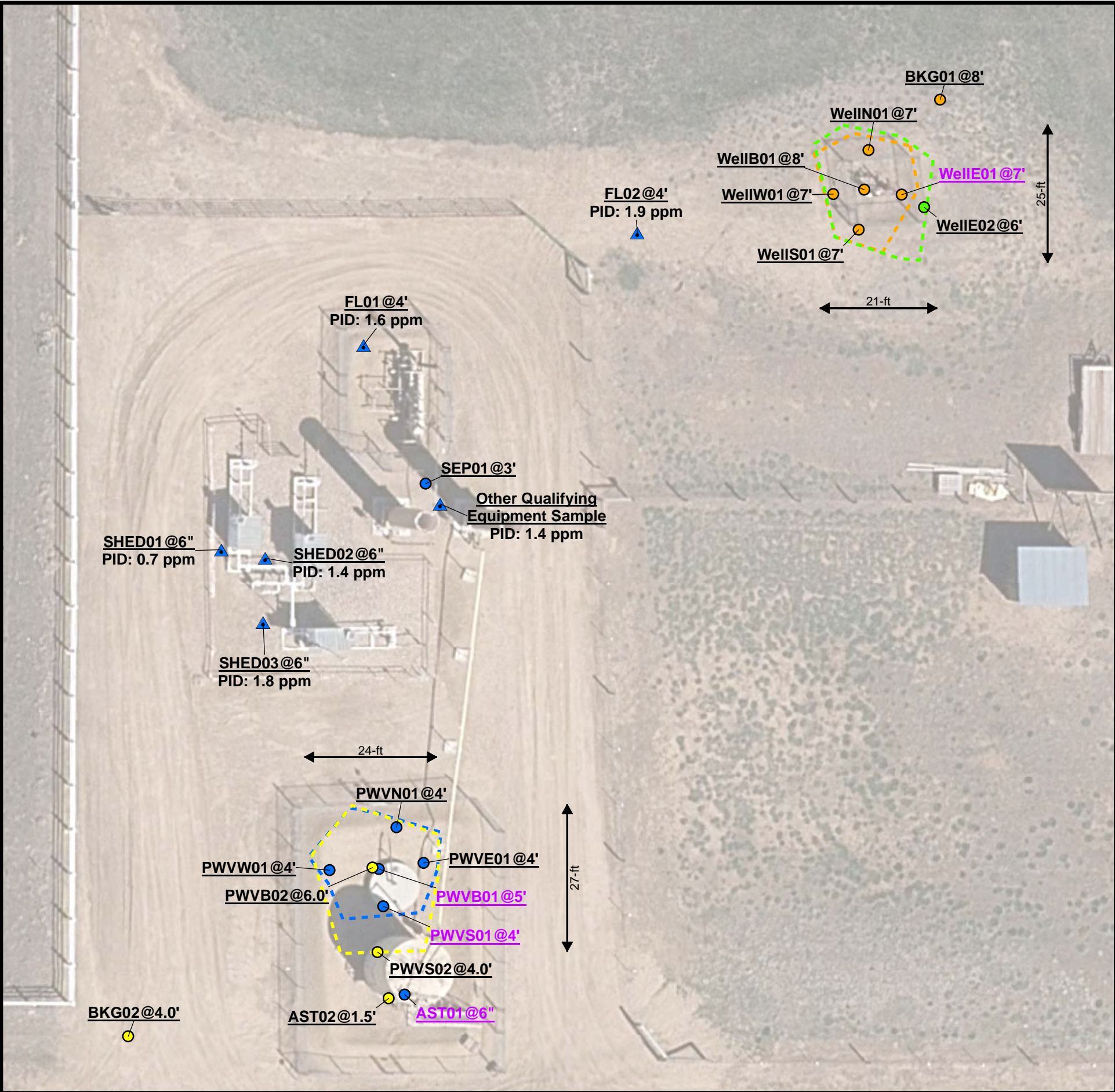


Topographic Location  
Map  
"Donley 1-36"

DONLEY-61N69W 36NWNE



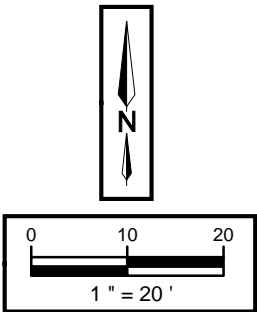




**Civitas Resources, Inc.**  
**Donley 1-36**  
**COGCC Location ID: 321339**  
**Site Diagram**

**Legal Description:** NWNE, Sec 36, T1N R69W  
**County:** Boulder  
**Land Use:** Cropland  
**Topography:** 1-3% Slopes  
**Run-Off Risk:** Low  
**Soil Type:** Ascalon sandy loam  
**Receiving Waters:** Unnamed ditch

- Soil Sample - Laboratory Analysis (7/26/2021)
- Soil Sample - Laboratory Analysis (8/24/2021)
- ▲ Soil Sample - Field-Screen Only (8/24/2021)
- Soil Sample - Laboratory Analysis (8/30/2021)
- Soil Sample - Laboratory Analysis (9/16/2021)
- Excavation Extent (7/26/2021)
- Excavation Extent (8/24/2021)
- Excavation Extent (8/30/2021)
- Excavation Extent (9/16/2021)



\* Sample ID in Purple font indicates a regulatory exceedance.

PID: photoionization detector value  
ppm: parts per million



Sample ID	Latitude NAD83	Longitude NAD83	Sample ID	Latitude NAD83	Longitude NAD83
WellE01@7'	40.011633	-105.062092	SHED03@6"	40.011422	-105.062501
WellN01@7'	40.011655	-105.062114	SHED02@6"	40.011453	-105.062500
WellS01@7'	40.011616	-105.062120	SHED01@6"	40.011458	-105.062528
WellW01@7'	40.011633	-105.062136	SEP01@3'	40.011490	-105.062397
WellB01@8'	40.011636	-105.062116	Other Qualifying Equipment Sample	40.011480	-105.062388
BKG01@8'	40.011680	-105.062068	FL01@4'	40.011559	-105.062437
AST01@6"	40.011238	-105.062411	FL02@4'	40.011614	-105.062262
PWVS01@4'	40.011282	-105.062424	PWVB02@6.0'	40.011301	-105.062431
PWVE01@4'	40.011303	-105.062399	PWVS02@4.0'	40.011259	-105.062428
PWVN01@4'	40.011320	-105.062416	AST02@1.5'	40.011236	-105.062421
PWVB01@5'	40.011300	-105.062427	BKG02@4.0'	40.011217	-105.062588
PWVW01@4'	40.011299	-105.062459	WellE02@6'	40.011627	-105.062078

		Organic Compounds in Soils (mg/kg)								Soil Suitability for Reclamation			
COGCC Allowable Concentration (Soil)→		500	1.2/0.0026(M)	490/0.69(M)	5.8/0.78(M)	58/9.9(M)	30/0.0081(R)	27/0.0087(R)	2/0.0038(R)	<4	<6	(6-8.3)	2
Site Specific Background→										4.1	6.1	8.36	
Sample Date	Sample ID	TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	Benzene	Toluene	Ethylbenzene	Xylenes (sum of o-, m- and p- isomers = total xylenes)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	Electrical Conductivity (EC) (by saturated paste method) (mmhos/cm)	Sodium Adsorption Ratio (SAR) (by saturated paste method) (Calculation)	pH (by saturated paste method) (pH Units)	Boron (hot water soluble soil extract) (mg/L)
7/26/2021	WellB01@8'	39.0	<0.00200	0.00698	<0.00200	0.0239	0.0109	0.0055	<0.00380	0.575	0.986	8.17	0.559
7/26/2021	WellE01@7'	1656.0	0.176	0.656	0.206	3.94	2.26	0.849	0.0246	1.180	1.970	9.23	0.499
7/26/2021	WellN01@7'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	0.508	0.728	8.03	0.318
7/26/2021	WellS01@7'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	0.319	0.267	8.12	<0.200
7/26/2021	WellW01@7'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	0.429	0.401	8.12	<0.200
8/24/2021	PWVB01@5'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	0.675	12.800	9.18	0.418
8/24/2021	PWVS01@4'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	0.510	5.580	8.39	4.14
8/24/2021	PWVE01@4'	NA	NA	NA	NA	NA	NA	NA	NA	0.711	1.160	7.8	0.931
8/24/2021	PWVN01@4'	NA	NA	NA	NA	NA	NA	NA	NA	0.338	0.370	8.03	<0.201
8/24/2021	PWVN01@4'	NA	NA	NA	NA	NA	NA	NA	NA	0.409	1.740	8.16	0.472
8/24/2021	SEP01@3'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	0.388	0.317	8.17	0.26
8/24/2021	AST01@6"	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	0.582	9.650	8.6	0.914
8/30/2021	PWVB02@6.0'	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.320	8.02	NA
8/30/2021	PWVS02@4.0'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.92	1.43
8/30/2021	AST02@1.5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.710	8.02	NA
9/16/2021	WellE02@6'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	1.860	1.120	7.75	0.2



Spatial data collected for this project was acquired using a GPS with submeter accuracy. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. To accurately reflect field conditions, illustrated data may have been manually corrected in order to fit with the aerial imagery reference points and other collected data points.





**Description:**

WellN01@7'



**Description:**

WellE01@7'





**Description:**

WellS01@7'





**Description:**

WellW01@7'





**Description:**

WellB01@8'





**Description:**

BKG01@8'





**Description:**

AST01@6"





**Description:**

AST Tank Bottom





Latitude: 40.01125  
Longitude: -105.062437  
Elevation: 1558.76±3 m  
Accuracy: 10.9 m  
Azimuth: 81° (E)  
Pitch: -44.6° (-1.7°)  
Time: 08-24-2021 12:54  
Note: PWVB01@5'

**Description:**

PWVB01@5'





**Description:**

PWVE01@4'





**Description:**

PWVS01@4'





**Description:**

PWVN01@4'





**Description:**

SHED03@6"





**Description:**

SHED01@6"





**Description:**

SHED02@6"





**Description:**

SEP01@3'





**Description:**

FL01@4'





**Description:**

AST02@1.5'





**Description:**

BKG02@6'





**Description:**

PWVB02@6'





**Description:**

PWVS02@4'





**Description:**

WellE02@6'





## Laboratory Results Summary Table

Donley 1-36

Soil - Organics

			Organic Compounds in Soils (mg/kg)							
COGCC Allowable Concentration (Soil) -->			500	1.2/0.0026(M)	490/0.69(M)	5.8/0.78(M)	58/9.9(M)	30/0.0081(R)	27/0.0087(R)	2/0.0038(R)
Site Specific Background -->										
Location	Sample Date	Sample ID	TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	Benzene	Toluene	Ethylbenzene	Xylenes (sum of o-, m- and p- isomers = total xylenes)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene
Donley 1-36	7/26/2021	WellB01@8'	39.0	<0.00200	0.00698	<0.00200	0.0239	0.0109	0.0055	<0.00380
Donley 1-36	7/26/2021	WellE01@7'	1656.0	0.176	0.656	0.206	3.94	2.26	0.849	0.0246
Donley 1-36	7/26/2021	WellN01@7'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
Donley 1-36	7/26/2021	WellS01@7'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
Donley 1-36	7/26/2021	WellW01@7'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
Donley 1-36	9/16/2021	WellE02@6'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067
Donley 1-36	8/24/2021	PWVB01@5'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
Donley 1-36	8/24/2021	PWVS01@4'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
Donley 1-36	8/24/2021	SEP01@3'	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
Donley 1-36	8/24/2021	AST01@6"	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380

### Legend:

COGCC - Colorado Oil and Gas Conservation Commission

Orange Highlight - COGCC Table 915-1 TPH, BTEX, organic, metal exceedance

Yellow Highlight - COGCC Table 915-1 inorganic exceedance

Grey Highlight - below laboratory detection limit

Light Blue Highlight - exceedance of protection of groundwater soil screening level concentrations risk based (R) or MCL based (M)

MCL - maximum contaminant level

NA - not analyzed

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter





# Laboratory Results Summary Table

## Donley 1-36

### Soil - PAH

			Organic Compounds in Soils (mg/kg)													
COGCC Allowable Concentration (Soil) -->			360/0.55(R)	1800/5.8(R)	1.1/0.011(R)	1.1/0.3(R)	11/2.9(R)	0.11/0.24(M)	110/9(R)	0.11/0.096(R)	240/8.9(R)	240/0.54(R)	1.1/0.98(R)	18/0.006(R)	24/0.019(R)	180/1.3(R)
Site Specific Background -->																
Location	Sample Date	Sample ID	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Pyrene
Donley 1-36	7/26/2021	WellN01@7'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000233	0.000567	<0.00067	<0.00067	0.000594	<0.00067	<0.00067	<0.00067	<0.00067
Donley 1-36	7/26/2021	WellS01@7'	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000232	0.000773	<0.00067	<0.00067	0.000661	<0.00067	<0.00067	<0.00067	<0.00067
Donley 1-36	7/26/2021	WellW01@7'	<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
Donley 1-36	9/16/2021	WellE02@6'	<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

**Legend:**

COGCC - Colorado Oil and Gas Conservation Commission

Orange Highlight - COGCC Table 915-1 TPH, BTEX, organic, metal exceedance

Yellow Highlight - COGCC Table 915-1 inorganic exceedance

Grey Highlight - below laboratory detection limit

Light Blue Highlight - exceedance of protection of groundwater soil screening level concentrations risk based (R) or MCL based (M)

MCL - maximum contaminant level

NA - not analyzed

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter





## Laboratory Results Summary Table

### Donley 1-36 Soil - Inorganics

			Soil Suitability for Reclamation				Metals in Soils (mg/kg)									
COGCC Allowable Concentration (Soil) -->			<4	<6	(6-8.3)	2	0.68/0.29(M)	15000/82(M)	71/0.38(M)	0.3/0.00067(R)	3100/46(M)	400/14(M)	1500/26(R)	390/0.26(M)	390/0.8(R)	23000/370(R)
Site Specific Background -->							3.7375	157.5						0.56625		
Location	Sample Date	Sample ID	Electrical Conductivity (EC) (by saturated paste method) (mmhos/cm)	Sodium Adsorption Ratio (SAR) (by saturated paste method) (Calculation)	pH (by saturated paste method) (pH Units)	Boron (hot water soluble soil extract) (mg/L)	Arsenic	Barium	Cadmium	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
Donley 1-36	7/26/2021	WellB01@8'	0.575	0.986	8.17	0.559	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Donley 1-36	7/26/2021	WellE01@7'	1.180	1.970	9.23	0.499	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Donley 1-36	7/26/2021	WellN01@7'	0.508	0.728	8.03	0.318	2.92	145	0.176	<0.5	12.4	19.4	13.8	0.494	0.042	81.3
Donley 1-36	7/26/2021	WellS01@7'	0.319	0.267	8.12	<0.200	2.77	131	0.154	<0.5	11.5	10.8	13.7	0.504	0.0344	42
Donley 1-36	7/26/2021	WellW01@7'	0.429	0.401	8.12	<0.200	2.87	170	0.141	<0.506	13.8	11	16	0.504	0.0507	44.2
Donley 1-36	9/16/2021	WellE02@6'	1.860	1.120	7.75	0.2	3.14	136	0.167	<0.518	12.3	10.3	13.8	0.334	0.0379	49.4
Donley 1-36	8/24/2021	PWVB01@5'	0.675	12.800	9.18	0.418	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Donley 1-36	8/24/2021	PWVS01@4'	0.510	5.580	8.39	4.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Donley 1-36	8/24/2021	PWVE01@4'	0.711	1.160	7.8	0.931	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Donley 1-36	8/24/2021	PWVW01@4'	0.338	0.370	8.03	<0.201	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Donley 1-36	8/24/2021	PWVN01@4'	0.409	1.740	8.16	0.472	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Donley 1-36	8/24/2021	SEP01@3'	0.388	0.317	8.17	0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Donley 1-36	8/24/2021	AST01@6"	0.582	9.650	8.6	0.914	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Donley 1-36	8/30/2021	PWVB02@6.0'	NA	1.320	8.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Donley 1-36	8/30/2021	PWVS02@4.0'	NA	NA	7.92	1.43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Donley 1-36	8/30/2021	AST02@1.5'	NA	5.710	8.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Donley 1-36	7/26/2021	BKG01@8'	0.348	0.300	8.07	<0.200	2.99	126	0.145	<0.505	11.7	9.72	12.6	0.453	0.0432	44.4
Donley 1-36	8/30/2021	BKG02@4.0'	0.869	0.525	7.92	<0.198	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

#### Legend:

COGCC - Colorado Oil and Gas Conservation Commission

Orange Highlight - COGCC Table 915-1 TPH, BTEX, organic, metal exceedance

Yellow Highlight - COGCC Table 915-1 inorganic exceedance

Grey Highlight - below laboratory detection limit

Light Blue Highlight - exceedance of protection of groundwater soil screening level concentrations risk based (R) or MCL based (M)

MCL - maximum contaminant level

NA - not analyzed

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter





August 13, 2021

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - Donley 1-36

Project Number - 744.2101.01-321339

Attached are your analytical results for Donley 1-36 received by Origins Laboratory, Inc. July 27, 2021. This project is associated with Origins project number Y107520-01.

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



Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WellB01@8'	Y107520-01	Soil	July 26, 2021 17:05	07/27/2021 08:25
WellE01@7'	Y107520-02	Soil	July 26, 2021 17:08	07/27/2021 08:25
BKG01@8'	Y107520-03	Soil	July 26, 2021 17:25	07/27/2021 08:25
Well N01@7'	Y107520-04	Soil	July 26, 2021 17:06	07/27/2021 08:25
Well S01@7'	Y107520-05	Soil	July 26, 2021 17:07	07/27/2021 08:25
Well W01@7'	Y107520-06	Soil	July 26, 2021 17:09	07/27/2021 08:25

Per the email from Maggie on 08/05/21, PAH and 915 metals were added to WellN01@7, WellS01@7, and WellW01@7. JEP

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

*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.*



Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

www.originslaboratory.com

page 1 of 7

4107520

ORIGINS LABORATORY, INC

Client: Extraction Oil and Gas

Address: 370 17th Street, Ste. 5300, Denver, CO 80202

Telephone Number: 907-538-7699

Email Address: Apex Companies, DenverRemediation@ApexCos.onmicrosoft.com

Project Manager: Nathan Bennett (XOC), Maggie Graham (Apex)

Project Name: Donley 1-36

Project Number: 744.2101.01-321339

Samples Collected By: Apex Companies, Apex Amendment

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
Well 801 @ 8'	7/26/21	5:05	2	Unpreserved	Soil	Full 915 / Modified 915 (Circle one)	"Modified 915" =
Well 801 @ 7'		5:08	2	HCl	Soil	Modified 915	GBTEX, DRO/ORO
Well 801 @ 8'		5:15	2	HNO <sub>3</sub>	Soil	Modified 915	Naphthalene
Well 801 @ 7'		5:06	1	Other	Soil	Metals 915 + Inorganics	1,2,4 + 1,3,5 Trimethylnaphthalene
Well 801 @ 7'		5:07	1	Other	Soil	Hold	EC, SAR, pH, Boron
Well 801 @ 7'		5:09	1	Other	Soil	Hold	
						NO <sub>2</sub> , SOL, WOI, thinf	Full 915 =
						GC hold for	All above + 915 Metals + 915 PAHs
						Modified 915 per	
						See email from Kym on 7/28/21	
Relinquished By: <i>edall</i>	Date: 7/27/21	Time: 0825				Date: 07-27-21	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By:	Date:	Time:				Date: 07-27-21	

Origins Laboratory, Inc.

*Jefe Pellegrini*

Jen Pellegrini, Project Manager

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.

Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4107520

Client: Apex

Client Project ID: Donley 1-36

Checklist Completed by: JP

Shipped Via: 4D  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/27/21

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.8 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: TA03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JP

Date/Time Reviewed 7/27/21

Origins Laboratory, Inc.

*Jen Pellegrini*

Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

WellB01@8'  
7/26/2021 5:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y107520-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.559	0.200	mg/L	1	B1G2730	07/28/2021	07/28/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	38.1	25.0	mg/kg	1	B1G2702	07/27/2021	07/27/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.2 %	50-150	"	"	"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	0.0109	0.00200	mg/kg	1	B1G2701	07/27/2021	07/27/2021	
Naphthalene	ND	0.00380	"	"	"	"	"	U
1,3,5-Trimethylbenzene	0.00550	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	0.00698	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.919	0.200	"	"	"	"	"	
Xylenes, total	0.0239	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	90.5 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

WellB01@8'  
7/26/2021 5:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y107520-01 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	146 %	70-130				B1G27 01	07/27/2021	07/27/2021	04
Surrogate: 4-Bromofluorobenzene	102 %	70-130				"	"	"	

**Metals by Saturated Paste**

Calcium	1.99	0.0499	meq/L	1	[CALC]	07/28/2021	07/28/2021
Magnesium	1.44	0.0823	"	"	"	"	"
Sodium	1.29	0.0435	"	"	"	"	"

**pH in Soil by EPA 9045D**

pH	8.17		pH Units	1	B1G2807	07/28/2021	07/28/2021
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**SAR by 20B Saturated Paste**

SAR	0.986		SAR	1	B1G2812	07/28/2021	07/28/2021
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.575	0.00500	mmhos/cm	1	B1G2809	07/28/2021	07/28/2021
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

WellE01@7'  
7/26/2021 5:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y107520-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.499	0.200	mg/L	1	B1G2730	07/28/2021	07/28/2021
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	921	25.0	mg/kg	1	B1G2619	07/26/2021	07/27/2021
Residual Range Organics (C28-C40)	590	100	"	"	"	"	"

Surrogate: o-Terphenyl	138 %	50-150	"	"	"
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	2.26	0.0500	mg/kg	25	B1G2701	07/27/2021	07/27/2021
Naphthalene	0.0246	0.0100	"	1	"	"	07/27/2021
1,3,5-Trimethylbenzene	0.849	0.0500	"	25	"	"	07/27/2021
Benzene	0.176	0.00200	"	1	"	"	07/27/2021
Ethylbenzene	0.206	0.0500	"	25	"	"	07/27/2021
Toluene	0.656	0.0500	"	"	"	"	"
Gasoline Range Hydrocarbons	145	5.00	"	"	"	"	07/27/2021
Xylenes, total	3.94	0.0500	"	"	"	"	07/27/2021

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	07/27/2021
Surrogate: Toluene-d8	108 %	70-130	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

WellE01@7'  
7/26/2021 5:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y107520-02 (Soil)**

**GBTEX+TMBs**

Surrogate: 4-Bromofluorobenzene	109 %	70-130		B1G27 01	07/27/2021	07/27/2021
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**Metals by Saturated Paste**

Calcium	6.01	0.0499	meq/L	1	[CALC]	07/28/2021	07/28/2021
Magnesium	0.615	0.0823	"	"	"	"	"
Sodium	3.57	0.0435	"	"	"	"	"

**pH in Soil by EPA 9045D**

pH	9.23		pH Units	1	B1G2807	07/28/2021	07/28/2021
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**SAR by 20B Saturated Paste**

SAR	1.97		SAR	1	B1G2812	07/28/2021	07/28/2021
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	1.18	0.00500	mmhos/cm	1	B1G2809	07/28/2021	07/28/2021
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

BKG01@8'

7/26/2021 5:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y107520-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.200	mg/L	1	B1G2730	07/28/2021	07/28/2021
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**Metals by Saturated Paste**

Calcium	2.14	0.0499	meq/L	"	[CALC]	07/28/2021	07/28/2021
Magnesium	0.973	0.0823	"	"	"	"	"
Sodium	0.374	0.0435	"	"	"	"	"

**pH in Soil by EPA 9045D**

pH	8.07		pH Units	1	B1G2807	07/28/2021	07/28/2021
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**SAR by 20B Saturated Paste**

SAR	0.300		SAR	1	B1G2812	07/28/2021	07/28/2021
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.348	0.00500	mmhos/cm	1	B1G2809	07/28/2021	07/28/2021
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**Total Metals by 6020B**

Arsenic	2.99	0.0855	0.25	mg/Kg	5	L566195	07/28/2021	07/29/2021
Barium	126	0.042	0.25	"	"	"	"	"
Cadmium	0.145	0.0259	0.25	"	"	"	"	"
Copper	11.7	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

BKG01@8'

7/26/2021 5:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
Y107520-03 (Soil)

**Total Metals by 6020B**

Lead	9.72	0.031	0.25	mg/Kg	5	L566195	07/28/2021	07/29/2021	
Nickel	12.6	0.0633	0.25	"	"	"	"	"	
Selenium	0.453	0.103	0.25	"	"	"	"	"	
Silver	0.0432	0.0067	0.25	"	"	"	"	"	J
Zinc	44.4	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L566325	07/26/2021	07/29/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager



Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**Well N01@7'**  
**7/26/2021 5:06:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y107520-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.318	0.199	mg/L	1	B1G2915	07/29/2021	07/29/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1G2822	07/28/2021	07/28/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.2 %	50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G2821	"	07/28/2021	U
Naphthalene	ND	0.00380	"	"	"	"	"	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

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**Well N01@7'**  
**7/26/2021 5:06:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y107520-04 (Soil)**

**GBTEX+TMBs**

Surrogate: 1,2-Dichloroethane-d4	96.0 %		70-130			B1G28 21	07/28/2021	07/28/2021	
Surrogate: Toluene-d8	105 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

**Metals by Saturated Paste**

Calcium	2.70		0.0499	meq/L	1	[CALC]	07/29/2021	07/29/2021	
Magnesium	1.39		0.0823	"	"	"	"	"	
Sodium	1.04		0.0435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.000602	0.00048	0.00067	mg/Kg	1	L568122	08/09/2021	08/09/2021	J
2-Methylnaphthalene	0.000732	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000233	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.000567	0.000256	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**Well N01@7'**  
**7/26/2021 5:06:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y107520-04 (Soil)**

**PAH by 8270D SIM**

Fluorene	0.000594	0.000501	0.00067	mg/Kg	1	L568122	08/09/2021	08/09/2021	J
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	60.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	55.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	65.1 %		29-110			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.03			pH Units	1	B1G2905	07/29/2021	07/29/2021	
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**SAR by 20B Saturated Paste**

SAR	0.728			SAR	1	B1G2912	07/29/2021	07/29/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.508		0.00500	mmhos/cm	1	B1G2909	07/29/2021	07/29/2021	
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**Total Metals by 6020B**

Arsenic	2.92	0.0855	0.25	mg/Kg	5	L567935	08/06/2021	08/09/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## Well N01@7'

7/26/2021 5:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc. Y107520-04 (Soil)

### Total Metals by 6020B

Barium	145	0.042	0.25	mg/Kg	5	L567935	08/06/2021	08/09/2021	
Cadmium	0.176	0.0259	0.25	"	"	"	"	"	J
Copper	12.4	0.0806	0.25	"	"	"	"	"	
Lead	19.4	0.031	0.25	"	"	"	"	"	
Nickel	13.8	0.0633	0.25	"	"	"	"	"	
Selenium	0.494	0.103	0.25	"	"	"	"	"	
Silver	0.042	0.0067	0.25	"	"	"	"	"	J
Zinc	81.3	0.534	2.5	"	"	"	"	"	

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L568023	07/26/2021	08/09/2021	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**Well S01@7'**  
**7/26/2021 5:07:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y107520-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.200	mg/L	1	B1G2917	07/29/2021	08/02/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1G2822	07/28/2021	07/28/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	103 %	50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G2821	"	07/28/2021	U
Naphthalene	ND	0.00380	"	"	"	"	"	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

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**Well S01@7'**  
**7/26/2021 5:07:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y107520-05 (Soil)**

**GBTEX+TMBs**

Surrogate: 1,2-Dichloroethane-d4	84.2 %		70-130			B1G28 21	07/28/2021	07/28/2021	
Surrogate: Toluene-d8	114 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %		70-130			"	"	"	

**Metals by Saturated Paste**

Calcium	1.98		0.0499	meq/L	1	[CALC]	07/29/2021	07/29/2021	
Magnesium	0.843		0.0823	"	"	"	"	"	
Sodium	0.317		0.0435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L568122	08/09/2021	08/09/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000232	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.000773	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

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Jen Pellegrini, Project Manager



Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**Well S01@7'**  
**7/26/2021 5:07:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y107520-05 (Soil)**

**PAH by 8270D SIM**

Fluorene	0.000661	0.000501	0.00067	mg/Kg	1	L568122	08/09/2021	08/09/2021	J
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	60.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.9 %	29-110	"	"	"

**pH in Soil by EPA 9045D**

pH	8.12	pH Units	1	B1G2906	07/29/2021	07/29/2021
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**SAR by 20B Saturated Paste**

SAR	0.267	SAR	1	B1G2913	07/29/2021	07/29/2021
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.319	0.00500	mmhos/cm	1	B1G2910	07/29/2021	07/29/2021
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**Total Metals by 6020B**

Arsenic	2.77	0.0855	0.25	mg/Kg	5	L567935	08/06/2021	08/09/2021
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## Well S01@7'

7/26/2021 5:07:00PM

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

Y107520-05 (Soil)

### Total Metals by 6020B

Barium	131	0.042	0.25	mg/Kg	5	L567935	08/06/2021	08/09/2021	
Cadmium	0.154	0.0259	0.25	"	"	"	"	"	J
Copper	11.5	0.0806	0.25	"	"	"	"	"	
Lead	10.8	0.031	0.25	"	"	"	"	"	
Nickel	13.7	0.0633	0.25	"	"	"	"	"	
Selenium	0.504	0.103	0.25	"	"	"	"	"	
Silver	0.0344	0.0067	0.25	"	"	"	"	"	J
Zinc	42	0.534	2.5	"	"	"	"	"	

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L568023	07/26/2021	08/09/2021	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**Well W01@7'**  
**7/26/2021 5:09:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y107520-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.200	mg/L	1	B1G2917	07/29/2021	08/02/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1G2822	07/28/2021	07/28/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.8 %	50-150	"	"	"
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1G2821	"	07/28/2021	U
Naphthalene	ND	0.00380	"	"	"	"	"	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

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**Well W01@7'**  
**7/26/2021 5:09:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y107520-06 (Soil)**

**GBTEX+TMBs**

Surrogate: 1,2-Dichloroethane-d4	82.8 %		70-130			B1G28 21	07/28/2021	07/28/2021	
Surrogate: Toluene-d8	90.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	116 %		70-130			"	"	"	

**Metals by Saturated Paste**

Calcium	2.45		0.0499	meq/L	1	[CALC]	07/29/2021	07/29/2021	
Magnesium	1.41		0.0823	"	"	"	"	"	
Sodium	0.556		0.0435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L568122	08/09/2021	08/09/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**Well W01@7'**  
**7/26/2021 5:09:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y107520-06 (Soil)**

**PAH by 8270D SIM**

Fluoranthene	ND	0.000529	0.00067	mg/Kg	1	L568122	08/09/2021	08/09/2021	
Fluorene	ND	0.000501	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	58.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.4 %		29-110			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.12			pH Units	1	B1G2906	07/29/2021	07/29/2021	
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**SAR by 20B Saturated Paste**

SAR	0.401			SAR	1	B1G2913	07/29/2021	07/29/2021	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.429		0.00500	mmhos/cm	1	B1G2910	07/29/2021	07/29/2021	
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**Total Metals by 6020B**

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**Well W01@7'**  
**7/26/2021 5:09:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y107520-06 (Soil)**

**Total Metals by 6020B**

Arsenic	2.87	0.0855	0.25	mg/Kg	5	L567935	08/06/2021	08/09/2021	
Barium	170	0.042	0.25	"	"	"	"	"	
Cadmium	0.141	0.0259	0.25	"	"	"	"	"	J
Copper	13.8	0.0806	0.25	"	"	"	"	"	
Lead	11	0.031	0.25	"	"	"	"	"	
Nickel	16	0.0633	0.25	"	"	"	"	"	
Selenium	0.504	0.103	0.25	"	"	"	"	"	
Silver	0.0507	0.0067	0.25	"	"	"	"	"	J
Zinc	44.2	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L568023	07/26/2021	08/09/2021	
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Apex Companies, LLC  
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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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 B1G2619 - EPA 3550B										
Blank (B1G2619-BLK1)					Prepared: 07/26/2021 Analyzed: 07/26/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	25.0		90.0	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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 B1G2619 - EPA 3550B

### LCS (B1G2619-BS1)

Prepared: 07/26/2021 Analyzed: 07/26/2021

Diesel (C10-C28)	859	50.0	mg/kg	1000		85.9	70-130			
Residual Range Organics (C28-C40)	909	200	"	1000		90.9	70-130			
Surrogate: o-Terphenyl	44		"	50.0		88.0	50-150			

Origins Laboratory, Inc.



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Apex Companies, LLC  
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Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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 B1G2619 - EPA 3550B

Matrix Spike (B1G2619-MS1)		Source: Y107516-01			Prepared: 07/26/2021 Analyzed: 07/26/2021					
Diesel (C10-C28)	933	50.0	mg/kg	1000	ND	93.3	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	49		"	50.0		98.4	50-150			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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 B1G2619 - EPA 3550B

Matrix Spike Dup (B1G2619-MSD1)		Source: Y107516-01			Prepared: 07/26/2021 Analyzed: 07/26/2021					
Diesel (C10-C28)	895	50.0	mg/kg	1000	ND	89.5	70-130	4.19	35	
Residual Range Organics (C28-C40)	975	200	"	1000	ND	97.5	70-130	5.40	35	
Surrogate: o-Terphenyl	48		"	50.0		96.5	50-150			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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
<b>Batch B1G2701 - EPA 5030 (soil)</b>										
<b>Blank (B1G2701-BLK1)</b>					Prepared: 07/27/2021 Analyzed: 07/27/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							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	0.11		"	0.125		91.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1G2701 - EPA 5030 (soil)</b>										
<b>LCS (B1G2701-BS1)</b>					Prepared: 07/27/2021 Analyzed: 07/27/2021					
1,2,4-Trimethylbenzene	0.0559	0.00200	mg/kg	0.0500		112	70-130			
Naphthalene	0.0496	0.0100	"	0.0500		99.2	70-130			
1,3,5-Trimethylbenzene	0.0550	0.00200	"	0.0500		110	70-130			
Benzene	0.0568	0.00200	"	0.0500		114	70-130			
Ethylbenzene	0.0547	0.00200	"	0.0500		109	70-130			
m,p-Xylene	0.111	0.00400	"	0.100		111	70-130			
o-Xylene	0.0538	0.00200	"	0.0500		108	70-130			
Toluene	0.0545	0.00200	"	0.0500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1G2701 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B1G2701-MS1)</b>		<b>Source: Y107518-01</b>			Prepared: 07/27/2021 Analyzed: 07/27/2021					
1,2,4-Trimethylbenzene	0.0665	0.00200	mg/kg	0.0500	ND	133	70-130			QM-07
Naphthalene	0.0597	0.0100	"	0.0500	0.00288	114	70-130			
1,3,5-Trimethylbenzene	0.0874	0.00200	"	0.0500	ND	175	70-130			QM-07
Benzene	0.0507	0.00200	"	0.0500	ND	101	70-130			
Ethylbenzene	0.0745	0.00200	"	0.0500	ND	149	70-130			QM-07
m,p-Xylene	0.188	0.00400	"	0.100	ND	188	70-130			QM-07
o-Xylene	0.0938	0.00200	"	0.0500	ND	188	70-130			QM-07
Toluene	0.0574	0.00200	"	0.0500	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.5	70-130			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1G2701 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B1G2701-MSD1)</b>		<b>Source: Y107518-01</b>			Prepared: 07/27/2021 Analyzed: 07/27/2021					
1,2,4-Trimethylbenzene	0.0668	0.00200	mg/kg	0.0500	ND	134	70-130	0.510	20	QM-07
Naphthalene	0.0522	0.0100	"	0.0500	0.00288	98.7	70-130	13.3	20	
1,3,5-Trimethylbenzene	0.0614	0.00200	"	0.0500	ND	123	70-130	34.9	20	QR-03
Benzene	0.0547	0.00200	"	0.0500	ND	109	70-130	7.63	20	
Ethylbenzene	0.0559	0.00200	"	0.0500	ND	112	70-130	28.5	20	QR-03
m,p-Xylene	0.118	0.00400	"	0.100	ND	118	70-130	46.3	20	QR-03
o-Xylene	0.0581	0.00200	"	0.0500	ND	116	70-130	47.0	20	QR-03
Toluene	0.0595	0.00200	"	0.0500	ND	119	70-130	3.69	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1G2702 - EPA 3550B</b>										
<b>Blank (B1G2702-BLK1)</b>					Prepared: 07/27/2021 Analyzed: 07/27/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		84.2	50-150			

Origins Laboratory, Inc.



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Apex Companies, LLC  
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Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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 B1G2702 - EPA 3550B

LCS (B1G2702-BS1)

Prepared: 07/27/2021 Analyzed: 07/27/2021

Diesel (C10-C28)	1050	50.0	mg/kg	1000		105	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000		116	70-130			
Surrogate: o-Terphenyl	57		"	50.0		115	50-150			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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 B1G2702 - EPA 3550B

Matrix Spike (B1G2702-MS1)		Source: Y107520-01			Prepared: 07/27/2021 Analyzed: 07/27/2021					
Diesel (C10-C28)	947	50.0	mg/kg	1000	ND	94.7	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	29.1	102	70-130			
Surrogate: o-Terphenyl	52		"	50.0		104	50-150			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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 B1G2702 - EPA 3550B

Matrix Spike Dup (B1G2702-MSD1)		Source: Y107520-01			Prepared: 07/27/2021 Analyzed: 07/27/2021					
Diesel (C10-C28)	942	50.0	mg/kg	1000	ND	94.2	70-130	0.563	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	29.1	101	70-130	1.12	35	
Surrogate: o-Terphenyl	50		"	50.0		100	50-150			

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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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
<b>Batch B1G2821 - EPA 5030 (soil)</b>										
<b>Blank (B1G2821-BLK1)</b>					Prepared: 07/28/2021 Analyzed: 07/28/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							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	0.11		"	0.125	90.1		70-130			
Surrogate: Toluene-d8	0.15		"	0.125	116		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	112		70-130			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1G2821 - EPA 5030 (soil)</b>										
<b>LCS (B1G2821-BS1)</b>					Prepared: 07/28/2021 Analyzed: 07/28/2021					
1,2,4-Trimethylbenzene	0.0524	0.00200	mg/kg	0.0500		105	70-130			
Naphthalene	0.0496	0.0100	"	0.0500		99.1	70-130			
1,3,5-Trimethylbenzene	0.0512	0.00200	"	0.0500		102	70-130			
Benzene	0.0493	0.00200	"	0.0500		98.6	70-130			
Ethylbenzene	0.0475	0.00200	"	0.0500		95.0	70-130			
m,p-Xylene	0.101	0.00400	"	0.100		101	70-130			
o-Xylene	0.0481	0.00200	"	0.0500		96.1	70-130			
Toluene	0.0487	0.00200	"	0.0500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1G2821 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B1G2821-MS1)</b>		<b>Source: Y107570-01</b>			Prepared: 07/28/2021 Analyzed: 07/28/2021					
1,2,4-Trimethylbenzene	0.0530	0.00200	mg/kg	0.0500	0.0215	63.1	70-130			QM-07
Naphthalene	0.0545	0.0100	"	0.0500	0.00172	106	70-130			
1,3,5-Trimethylbenzene	0.0504	0.00200	"	0.0500	0.00280	95.3	70-130			
Benzene	0.0494	0.00200	"	0.0500	0.00296	92.8	70-130			
Ethylbenzene	0.0401	0.00200	"	0.0500	0.0167	46.7	70-130			QM-07
m,p-Xylene	0.0840	0.00400	"	0.100	0.00894	75.0	70-130			
o-Xylene	0.0432	0.00200	"	0.0500	ND	86.4	70-130			
Toluene	0.0593	0.00200	"	0.0500	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.15		"	0.125		118	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1G2821 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B1G2821-MSD1)</b>		<b>Source: Y107570-01</b>			Prepared: 07/28/2021 Analyzed: 07/28/2021					
1,2,4-Trimethylbenzene	0.0533	0.00200	mg/kg	0.0500	0.0215	63.6	70-130	0.527	20	QM-07
Naphthalene	0.0562	0.0100	"	0.0500	0.00172	109	70-130	3.07	20	
1,3,5-Trimethylbenzene	0.0534	0.00200	"	0.0500	0.00280	101	70-130	5.70	20	
Benzene	0.0513	0.00200	"	0.0500	0.00296	96.6	70-130	3.82	20	
Ethylbenzene	0.0414	0.00200	"	0.0500	0.0167	49.4	70-130	3.29	20	QM-07
m,p-Xylene	0.0876	0.00400	"	0.100	0.00894	78.7	70-130	4.27	20	
o-Xylene	0.0540	0.00200	"	0.0500	ND	108	70-130	22.2	20	QR-03
Toluene	0.0644	0.00200	"	0.0500	ND	129	70-130	8.15	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.9	70-130			
Surrogate: Toluene-d8	0.15		"	0.125		119	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1G2822 - EPA 3550B</b>										
<b>Blank (B1G2822-BLK1)</b>					Prepared: 07/28/2021 Analyzed: 07/28/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.5	50-150			

Origins Laboratory, Inc.



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Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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 B1G2822 - EPA 3550B

### LCS (B1G2822-BS1)

Prepared: 07/28/2021 Analyzed: 07/28/2021

Diesel (C10-C28)	961	50.0	mg/kg	1000		96.1	70-130			
Residual Range Organics (C28-C40)	971	200	"	1000		97.1	70-130			
Surrogate: o-Terphenyl	52		"	50.0		103	50-150			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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 B1G2822 - EPA 3550B

Matrix Spike (B1G2822-MS1)		Source: Y107570-01			Prepared: 07/28/2021 Analyzed: 07/28/2021					
Diesel (C10-C28)	985	50.0	mg/kg	1000	ND	98.5	70-130			
Residual Range Organics (C28-C40)	966	200	"	1000	ND	96.6	70-130			
Surrogate: o-Terphenyl	51		"	50.0		103	50-150			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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 B1G2822 - EPA 3550B										
Matrix Spike Dup (B1G2822-MSD1)		Source: Y107570-01			Prepared: 07/28/2021 Analyzed: 07/28/2021					
Diesel (C10-C28)	916	50.0	mg/kg	1000	ND	91.6	70-130	7.24	35	
Residual Range Organics (C28-C40)	852	200	"	1000	ND	85.2	70-130	12.5	35	
Surrogate: o-Terphenyl	46		"	50.0		91.9	50-150			

Origins Laboratory, Inc.



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Project Number: 744.2101.01-321339  
Project: Donley 1-36

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B1G2730 - Default Prep Metals

##### Blank (B1G2730-BLK1)

Prepared: 07/28/2021 Analyzed: 07/28/2021

Boron	ND	0.200	mg/L
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#### Batch B1G2912 - Default Prep Metals

##### Blank (B1G2912-BLK1)

Prepared: 07/29/2021 Analyzed: 07/29/2021

SAR	0.00		SAR
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#### Batch B1G2913 - Default Prep Metals

##### Blank (B1G2913-BLK1)

Prepared: 07/29/2021 Analyzed: 07/29/2021

SAR	0.00		SAR
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#### Batch B1G2915 - Default Prep Metals

##### Blank (B1G2915-BLK1)

Prepared: 07/29/2021 Analyzed: 07/29/2021

Boron	ND	0.200	mg/L
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#### Batch B1G2917 - Default Prep Metals

##### Blank (B1G2917-BLK1)

Prepared: 07/29/2021 Analyzed: 08/02/2021

Boron	ND	0.200	mg/L
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Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1G2807 - NO PREP</b>										
<b>Duplicate (B1G2807-DUP1)</b>		<b>Source: Y107518-01</b>			Prepared: 07/28/2021 Analyzed: 07/28/2021					
pH	8.03		pH Units		8.04			0.124	25	
<b>Batch B1G2809 - NO PREP</b>										
<b>Blank (B1G2809-BLK1)</b>		Prepared: 07/28/2021 Analyzed: 07/28/2021								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B1G2809-DUP1)</b>		<b>Source: Y107518-01</b>			Prepared: 07/28/2021 Analyzed: 07/28/2021					
Specific Conductance (EC)	3.03	0.00500	mmhos/cm		2.99			1.38	25	
<b>Batch B1G2905 - NO PREP</b>										
<b>Duplicate (B1G2905-DUP1)</b>		<b>Source: Y107541-01</b>			Prepared: 07/29/2021 Analyzed: 07/29/2021					
pH	8.62		pH Units		8.55			0.815	25	
<b>Batch B1G2906 - NO PREP</b>										
<b>Duplicate (B1G2906-DUP1)</b>		<b>Source: Y107542-03</b>			Prepared: 07/29/2021 Analyzed: 07/29/2021					
pH	8.15		pH Units		8.14			0.123	25	
<b>Batch B1G2909 - NO PREP</b>										
<b>Blank (B1G2909-BLK1)</b>		Prepared: 07/29/2021 Analyzed: 07/29/2021								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							

Origins Laboratory, Inc.



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Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1G2909 - NO PREP</b>										
<b>Duplicate (B1G2909-DUP1)</b>		<b>Source: Y107541-01</b>			Prepared: 07/29/2021 Analyzed: 07/29/2021					
Specific Conductance (EC)	0.694	0.00500	mmhos/cm		0.758			8.95	25	
<b>Batch B1G2910 - NO PREP</b>										
<b>Blank (B1G2910-BLK1)</b>		Prepared: 07/29/2021 Analyzed: 07/29/2021								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B1G2910-DUP1)</b>		<b>Source: Y107542-03</b>			Prepared: 07/29/2021 Analyzed: 07/29/2021					
Specific Conductance (EC)	4.52	0.00500	mmhos/cm		4.67			3.35	25	

Origins Laboratory, Inc.



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Project Number: 744.2101.01-321339  
Project: Donley 1-36

**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 L568122 - 3550B**

MSD (L 87606-MSD-L568122)		Source: Y107520-04			Prepared: 08/09/2021 Analyzed: 08/09/2021					
Fluorene	0.115	0.000501	mg/Kg	0.165	0.000594	69.6	30-130	0.8	30	
Indeno(1,2,3-cd)pyrene	0.101	0.000344	"	0.165	87606	61.2	30-130	2.6	30	
Pyrene	0.114	0.000387	"	0.165	87606	69	30-130	1.7	30	
Benzo(k)fluoranthene	0.0861	0.000486	"	0.165	87606	52.1	30-130	1	30	
Chrysene	0.131	0.000256	"	0.165	0.000567	79.3	30-130	0	30	
Benzo(b)fluoranthene	0.0904	0.000138	"	0.165	87606	54.7	30-130	6.2	30	
Naphthalene	0.108	0.000467	"	0.165	87606	65.4	30-130	0.9	30	
Benzo(a)pyrene	0.117	0.000133	"	0.165	0.000233	70.9	30-130	5	30	
Benzo(a)anthracene	0.122	0.000441	"	0.165	87606	73.9	30-130	5.5	30	
Acenaphthene	0.103	0.000431	"	0.165	87606	62.4	30-130	0	30	
2-Methylnaphthalene	0.111	0.000542	"	0.165	0.000732	66.8	30-130	2.7	30	
1-Methylnaphthalene	0.109	0.00048	"	0.165	0.000602	66	30-130	0	30	
Dibenz(a,h)anthracene	0.107	0.000279	"	0.165	87606	64.8	30-130	5.4	30	
Anthracene	0.121	0.000426	"	0.165	87606	73.3	30-130	4	30	
Fluoranthene	0.113	0.000529	"	0.165	87606	68.4	30-130	2.6	30	
Surrogate: Nitrobenzene-d5	66		"	0.33	213	66	29-110			
Surrogate: 4-Terphenyl-d14	65.4		"	0.33	181	65.4	33-122			
Surrogate: 2-Fluorobiphenyl	67.8		"	0.33	197	67.8	33-115			

MS (L 87606-MS-L568122)		Source: Y107520-04			Prepared: 08/09/2021 Analyzed: 08/09/2021					
Fluorene	0.114	0.000501	mg/Kg	0.164	0.000594	69.5	30-130			
Chrysene	0.131	0.000256	"	0.164	0.000567	79.8	30-130			
Pyrene	0.116	0.000387	"	0.164	87606	70.7	30-130			
Dibenz(a,h)anthracene	0.113	0.000279	"	0.164	87606	68.9	30-130			
Fluoranthene	0.116	0.000529	"	0.164	87606	70.7	30-130			
Benzo(b)fluoranthene	0.0962	0.000138	"	0.164	87606	58.6	30-130			
Benzo(a)pyrene	0.123	0.000133	"	0.164	0.000233	75	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**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 L568122 - 3550B**

MS (L 87606-MS-L568122)		Source: Y107520-04			Prepared: 08/09/2021 Analyzed: 08/09/2021					
Benzo(a)anthracene	0.129	0.000441	mg/Kg	0.164	87606	78.6	30-130			
Acenaphthene	0.103	0.000431	"	0.164	87606	62.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0984	0.000344	"	0.164	87606	60	30-130			
2-Methylnaphthalene	0.108	0.000542	"	0.164	0.000732	65.4	30-130			
1-Methylnaphthalene	0.109	0.00048	"	0.164	0.000602	66.4	30-130			
Benzo(k)fluoranthene	0.087	0.000486	"	0.164	87606	53	30-130			
Naphthalene	0.109	0.000467	"	0.164	87606	66.4	30-130			
Anthracene	0.126	0.000426	"	0.164	87606	76.8	30-130			
Surrogate: 4-Terphenyl-d14	68.2		"	0.328	181	68.2	33-122			
Surrogate: 2-Fluorobiphenyl	66.4		"	0.328	197	66.4	33-115			
Surrogate: Nitrobenzene-d5	66.7		"	0.328	213	66.7	29-110			

LCS (LCS-L568122)		Prepared: 08/09/2021 Analyzed: 08/09/2021								
Naphthalene	0.113	0.000467	mg/Kg	0.167		67.6	30-130			
Benzo(b)fluoranthene	0.0783	0.000138	"	0.167		46.8	30-130			
1-Methylnaphthalene	0.113	0.00048	"	0.167		67.6	30-130			
2-Methylnaphthalene	0.114	0.000542	"	0.167		68.2	30-130			
Acenaphthene	0.112	0.000431	"	0.167		67	30-130			
Anthracene	0.125	0.000426	"	0.167		74.8	30-130			
Pyrene	0.111	0.000387	"	0.167		66.4	30-130			
Benzo(a)pyrene	0.123	0.000133	"	0.167		73.6	30-130			
Benzo(k)fluoranthene	0.0854	0.000486	"	0.167		51.1	30-130			
Chrysene	0.133	0.000256	"	0.167		79.6	30-130			
Dibenz(a,h)anthracene	0.0932	0.000279	"	0.167		55.8	30-130			
Fluoranthene	0.114	0.000529	"	0.167		68.2	30-130			
Fluorene	0.117	0.000501	"	0.167		70	30-130			
Indeno(1,2,3-cd)pyrene	0.079	0.000344	"	0.167		47.3	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**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
<b>Batch L568122 - 3550B</b>										
<b>LCS (LCS-L568122)</b>					Prepared: 08/09/2021 Analyzed: 08/09/2021					
Benzo(a)anthracene	0.13	0.000441	mg/Kg	0.167		77.8	30-130			
Surrogate: 2-Fluorobiphenyl	75.6		"	0.333		75.6	33-115			
Surrogate: 4-Terphenyl-d14	68.7		"	0.333		68.7	33-122			
Surrogate: Nitrobenzene-d5	75		"	0.333		75	29-110			
<b>LRB (LRB-L568122)</b>					Prepared: 08/09/2021 Analyzed: 08/09/2021					
1-Methylnaphthalene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	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	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	69.9		"	0.333		69.9	29-110			
Surrogate: 4-Terphenyl-d14	65.4		"	0.333		65.4	33-122			
Surrogate: 2-Fluorobiphenyl	71.1		"	0.333		71.1	33-115			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**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 L567935 - 3050B**

<b>MSD (L 87652-MSD-L567935)</b>		<b>Source: 87652</b>			Prepared: 08/06/2021 Analyzed: 08/09/2021					
Silver	0.471	0.0067	mg/Kg	0.494	0.0148	95	75-125	9.7	80	
Arsenic	3.15	0.0855	"	2.47	1.44	69	75-125	4	80	*
Barium	106	0.042	"	4.94	95.3	217	75-125	19.5	80	*
Cadmium	0.593	0.0259	"	0.494	0.114	120	75-125	11.2	80	
Copper	8.61	0.0806	"	2.47	5.32	133	75-125	0.2	80	*
Lead	10.4	0.031	"	2.47	6.34	164	75-125	6.6	80	*
Selenium	4.05	0.103	"	4.94	0.419	73	75-125	4	80	I*
Zinc	49.5	0.534	"	24.7	21.7	113	75-125	3.9	80	
Nickel	8.14	0.0633	"	2.47	4.95	129	75-125	1	80	*
<b>MS (L 87652-MS-L567935)</b>		<b>Source: 87652</b>			Prepared: 08/06/2021 Analyzed: 08/09/2021					
Silver	0.427	0.0067	mg/Kg	0.475	0.0148	90	75-125			
Barium	129	0.042	"	4.75	95.3	709	75-125			*
Cadmium	0.53	0.0259	"	0.475	0.114	112	75-125			
Copper	8.59	0.0806	"	2.38	5.32	138	75-125			*
Lead	9.73	0.031	"	2.38	6.34	143	75-125			*
Selenium	3.89	0.103	"	4.75	0.419	73	75-125			I*
Nickel	8.23	0.0633	"	2.38	4.95	138	75-125			*
Zinc	47.6	0.534	"	23.8	21.7	109	75-125			
Arsenic	3.28	0.0855	"	2.38	1.44	77	75-125			
<b>LCS (LCS-L567935)</b>		Prepared: 08/06/2021 Analyzed: 08/09/2021								
Silver	0.454	0.0067	mg/Kg	0.5		91	80-120			
Zinc	22.8	0.534	"	25		91	80-120			
Selenium	4.59	0.103	"	5		92	80-120			
Nickel	2.51	0.0633	"	2.5		100	80-120			
Lead	2.41	0.031	"	2.5		96	80-120			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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 L567935 - 3050B

#### LCS (LCS-L567935)

Prepared: 08/06/2021 Analyzed: 08/09/2021

Cadmium	0.463	0.0259	mg/Kg	0.5		93	80-120			
Barium	5.28	0.042	"	5		106	80-120			
Arsenic	2.48	0.0855	"	2.5		99	80-120			
Copper	2.39	0.0806	"	2.5		96	80-120			

#### LRB (LRB-L567935)

Prepared: 08/06/2021 Analyzed: 08/09/2021

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

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**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
<b>Batch L568023 -</b>										
<b>DUP (L 87606-DUP)</b>	<b>Source: Y107520-04</b>				Prepared: Analyzed: 08/09/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		87606	-		0	20	
<b>MS (L 87606-MS)</b>	<b>Source: Y107520-04</b>				Prepared: Analyzed: 08/09/2021					
Chromium, Hexavalent	3.78	0.244	mg/Kg	7.77	87606	49	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 08/09/2021					
Chromium, Hexavalent	6.86	0.244	mg/Kg	8		86	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 08/09/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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
<b>Batch L566195 - 3050B</b>										
<b>MSD (L 99466-MSD-L566195)</b>			<b>Source: 99466</b>		Prepared: 07/28/2021 Analyzed: 07/29/2021					
Cadmium	0.628	0.0259	mg/Kg	0.481	0.0773	131	75-125	20.3	80	*
Silver	0.511	0.0067	"	0.481	0.0179	106	75-125	14.9	80	
Selenium	5.35	0.103	"	4.81	0.991	91	75-125	19.2	80	
Nickel	8.67	0.0633	"	2.4	5.01	152	75-125	15.9	80	*
Zinc	45.6	0.534	"	24	18.6	112	75-125	6.8	80	
Barium	43.8	0.042	"	4.81	35.1	181	75-125	5.5	80	*
Arsenic	3.77	0.0855	"	2.4	1.23	106	75-125	22	80	
Copper	7.67	0.0806	"	2.4	4.75	121	75-125	6.1	80	
Lead	9.81	0.031	"	2.4	5.02	199	75-125	27.8	80	*
<b>MS (L 99466-MS-L566195)</b>			<b>Source: 99466</b>		Prepared: 07/28/2021 Analyzed: 07/29/2021					
Cadmium	0.512	0.0259	mg/Kg	0.465	0.0773	110	75-125			
Zinc	42.6	0.534	"	23.3	18.6	103	75-125			
Silver	0.44	0.0067	"	0.465	0.0179	95	75-125			
Selenium	4.41	0.103	"	4.65	0.991	74	75-125			*
Nickel	7.39	0.0633	"	2.33	5.01	102	75-125			
Copper	7.21	0.0806	"	2.33	4.75	106	75-125			
Barium	46.3	0.042	"	4.65	35.1	241	75-125			*
Arsenic	3.02	0.0855	"	2.33	1.23	77	75-125			
Lead	7.41	0.031	"	2.33	5.02	103	75-125			
<b>LCS (LCS-L566195)</b>			Prepared: 07/28/2021 Analyzed: 07/29/2021							
Arsenic	2.36	0.0855	mg/Kg	2.5		94	80-120			
Selenium	4.86	0.103	"	5		97	80-120			
Silver	0.485	0.0067	"	0.5		97	80-120			
Nickel	2.31	0.0633	"	2.5		92	80-120			
Zinc	23.1	0.534	"	25		92	80-120			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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 L566195 - 3050B

#### LCS (LCS-L566195)

Prepared: 07/28/2021 Analyzed: 07/29/2021

Lead	2.43	0.031	mg/Kg	2.5		97	80-120			
Barium	4.7	0.042	"	5		94	80-120			
Copper	2.34	0.0806	"	2.5		94	80-120			
Cadmium	0.465	0.0259	"	0.5		93	80-120			

#### LRB (LRB-L566195)

Prepared: 07/28/2021 Analyzed: 07/29/2021

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

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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
<b>Batch L566325 -</b>										
<b>DUP (L 88972-DUP)</b>	<b>Source: 88972</b>				Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		88972	-		0	20	
<b>MS (L 88972-MS)</b>	<b>Source: 88972</b>				Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	ND	0.245	mg/Kg	8.07	88972	0	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	6.75	0.244	mg/Kg	8		84	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 07/29/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

### Notes and Definitions

- U Sample is Non-Detect.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Estimated Value. Analyte below reported quantitation limit.
- I\* [Undefined]
- \* 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, Project Manager

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September 03, 2021

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - Donley 1-36

Project Number - 744.2101.01-321339

Attached are your analytical results for Donley 1-36 received by Origins Laboratory, Inc. August 30, 2021. This project is associated with Origins project number Y108612-01.

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

Apex Companies, LLC

4150 Darley Avenue, Suite 1

Boulder CO 80305

Maggie Graham

Project Number: 744.2101.01-321339

Project: Donley 1-36

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWVB02@6.0'	Y108612-01	Soil	August 30, 2021 14:11	08/30/2021 15:32
PWVS02@4.0'	Y108612-02	Soil	August 30, 2014 14:14	08/30/2021 15:32
AST02@1.5'	Y108612-03	Soil	August 30, 2021 14:28	08/30/2021 15:32
BKG02@4.0'	Y108612-04	Soil	August 30, 2021 14:36	08/30/2021 15:32

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36



4108612

page of

Client: Apex Companies LLC  
Address: 1746 Cole Blvd  
Lakewood, CO 80401  
Telephone Number: (720) 501-5065  
Email Address: Maggie.Graham@apexco.com

Project Manager: Maggie Graham  
Project Name: Donley 1-36 Facility  
Project Number:  
Samples Collected By: Jeff Griggs  
Client: X06

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa	Other	SA, PH	SA, PH	SA, PH		
PLV0206.0'	08/30/21	1411	2	X					X						1	Sample Instructions
PWV0204.0'	↓	1414	2	↓						X					2	
AST0201.5'	↓	1428	2	↓							X				3	
BKG0204.0'	↓	1436	2	↓								X			4	
															5	
															6	
															7	
															8	
															9	
															10	
Relinquished By: 	Date: 08/30/21	Time: 1536		Received By: 	Date: 8/30/21	Time: 1532		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>								
Relinquished By:	Date:	Time:		Received By:	Date:	Time:										

Date Results Needed

Temp Received: 17.4

Origins Laboratory, Inc.

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Apex Companies, LLC

4150 Darley Avenue, Suite 1

Boulder CO 80305

Maggie Graham

Project Number: 744.2101.01-321339

Project: Donley 1-36

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: 4108612

Client: Apex Companies

Client Project ID: Donley 1-36 Facility

Checklist Completed by: KH

Shipped Via: HD

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

Date/time completed: 2/30/12

Airbill #: NA

Matrix(s) Received: (Check all that apply):

☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1 / 17.4 °C /    °C /    °C

Thermometer ID: T063

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.

*Jordan A. Merrill*

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

Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

PWVB02@6.0'

8/30/2021 2:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108612-01 (Soil)**

**Metals by Saturated Paste**

Calcium	1.55	0.499	meq/L	10	[CALC]	JMA	08/31/2021	09/02/2021
Magnesium	1.05	0.823	"	"	"	JMA	"	"
Sodium	1.50	0.435	"	"	"	JMA	"	"

**pH in Soil by 9045D**

pH	8.02		pH Units	1	B1H3108	JSM	08/31/2021	09/01/2021
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**SAR by 20B Saturated Paste**

SAR	1.32		SAR	10	B1H3105	JMA	08/31/2021	09/02/2021
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Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

PWVS02@4.0'

8/30/2014 2:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108612-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.43	0.198	mg/L	1	B1H3102	JMA	08/31/2021	08/31/2021	
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**pH in Soil by 9045D**

pH	7.92		pH Units	1	B1H3108	JSM	08/31/2021	09/01/2021	
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Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

AST02@1.5'  
8/30/2021 2:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y108612-03 (Soil)

**Metals by Saturated Paste**

Calcium	1.79	0.499	meq/L	10	[CALC]	JMA	08/31/2021	09/02/2021
Magnesium	ND	0.823	"	"	"	JMA	"	"
Sodium	6.22	0.435	"	"	"	JMA	"	"

**pH in Soil by 9045D**

pH	8.02		pH Units	1	B1H3108	JSM	08/31/2021	09/01/2021
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**SAR by 20B Saturated Paste**

SAR	5.71		SAR	10	B1H3105	JMA	08/31/2021	09/02/2021
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Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**BKG02@4.0'**

**8/30/2021 2:36:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108612-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.198	mg/L	1	B1H3102	JMA	08/31/2021	08/31/2021
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**Metals by Saturated Paste**

Calcium	3.77	0.499	meq/L	10	[CALC]	JMA	08/31/2021	09/02/2021
Magnesium	3.30	0.823	"	"	"	JMA	"	"
Sodium	0.987	0.435	"	"	"	JMA	"	"

**pH in Soil by 9045D**

pH	7.92		pH Units	1	B1H3108	JSM	08/31/2021	09/01/2021
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**SAR by 20B Saturated Paste**

SAR	0.525		SAR	10	B1H3105	JMA	08/31/2021	09/02/2021
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.869	0.00500	mmhos/cm	1	B1H3111	JSM	08/31/2021	09/01/2021
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Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1H3108 - NO PREP</b>										
<b>Duplicate (B1H3108-DUP1)</b>		<b>Source: Y108614-01</b>			Prepared: 08/31/2021 Analyzed: 09/01/2021					
pH	7.86		pH Units		7.80			0.766	25	
<b>Batch B1H3111 - NO PREP</b>										
<b>Blank (B1H3111-BLK1)</b>		Prepared: 08/31/2021 Analyzed: 09/01/2021								
Specific Conductance (EC)	0.00230	0.00500	mmhos/cm							
<b>Duplicate (B1H3111-DUP1)</b>		<b>Source: Y108584-01</b>			Prepared: 08/31/2021 Analyzed: 09/01/2021					
Specific Conductance (EC)	0.761	0.00500	mmhos/cm		0.840			9.87	25	

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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





September 07, 2021

Apex Companies, LLC  
Maggie Graham  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

**Project Name - Donley 1-36**

**Project Number - 744.2101.01-321339**

Attached are your analytical results for Donley 1-36 received by Origins Laboratory, Inc. August 24, 2021. This project is associated with Origins project number Y108484-01.

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

Apex Companies, LLC

4150 Darley Avenue, Suite 1

Boulder CO 80305

Maggie Graham

Project Number: 744.2101.01-321339

Project: Donley 1-36

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWVB01@5'	Y108484-01	Soil	August 24, 2021 11:50	08/24/2021 14:10
PWVS01@4'	Y108484-02	Soil	August 24, 2021 11:54	08/24/2021 14:10
PWVE01@4'	Y108484-03	Soil	August 24, 2021 11:55	08/24/2021 14:10
PWVW01@4'	Y108484-04	Soil	August 24, 2021 11:57	08/24/2021 14:10
PWVN01@4'	Y108484-05	Soil	August 24, 2021 11:52	08/24/2021 14:10
SEP01@3'	Y108484-06	Soil	August 24, 2021 11:59	08/24/2021 14:10
AST01@6"	Y108484-07	Soil	August 24, 2021 12:01	08/24/2021 14:10

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

1108484

page 1 of 1

Client: Extraction Oil and Gas  
Address: 376 17th St, Ste S306  
Denver, CO, 80202  
Telephone Number: 907-538-7699  
Email Address: Denver.Reproduction@ApexGas.com

Project Manager: Maggie Graham  
Project Name: Donley 1-36 TR  
Project Number: 744.2101.01-321339  
Samples Collected By: Alex Alvarado, Apex Companies LLC

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa	Other			
PWV Sol @ 4'	8/24/21	11:56	2									X	Hold	6/8TEX, DRO/DRO 1
PWV Sol @ 4'		11:54	2									X		Naphthalene 2
PWV Sol @ 4'		11:55	1									X		1,2,4 + 1,3,5 Trimethylbenzene 3
PWV Sol @ 4'		11:57	1									X		EC, SAR, pH, Boron 4
PWV Sol @ 4'		11:52	1									X		5
SEP01 @ 3'		11:59	2									X		pH, EC, SAR, Boron 6
AST01 @ 6"	✓	12:01	2									X		added to all Hold 7
														Samples per file 8
														email from Maggie 9
Relinquished By: <u>adad</u>	Date: <u>8/24/21</u>	Time: <u>14:10</u>		Received By: <u>[Signature]</u>	Date: <u>8/24/21</u>	Time: <u>14:10</u>		Turnaround Time: <u>24 Hr</u> <input type="checkbox"/> <u>48 Hr</u> <input type="checkbox"/> <u>72 Hr</u> <input type="checkbox"/> <u>Standard</u> <input type="checkbox"/>						

Date Results Needed

Temp Received- 15.8

Origins Laboratory, Inc.

*Jordan A. Merrill*

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y108484 Client: Apex  
Client Project ID: Donley 1-36

Checklist Completed by: JG Shipped Via: HD  
Date/time completed: 8/24/21 (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 15.8 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C  
Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 8/24/21

Origins Laboratory, Inc.

[Signature]

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

PWVB01@5'

8/24/2021 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108484-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.418	0.199	mg/L	1	B1H2501	JMA	08/25/2021	08/25/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2418	KDK	08/24/2021	08/24/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	78.7 %	50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2417	KDK	08/24/2021	08/24/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130			"	"	"
Surrogate: Toluene-d8	97.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

PWVB01@5'

8/24/2021 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108484-01 (Soil)**

**Metals by Saturated Paste**

Calcium	0.319	0.0499	meq/L	1	[CALC]	CJM	08/25/2021	08/25/2021
Magnesium	0.355	0.0823	"	"	"	CJM	"	"
Sodium	7.43	0.0435	"	"	"	CJM	"	"

**pH in Soil by 9045D**

pH	9.18		pH Units	1	B1H2503	DTP	08/25/2021	08/25/2021
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**SAR by 20B Saturated Paste**

SAR	12.8		SAR	1	B1H2507	CJM	08/25/2021	08/25/2021
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.675	0.00500	mmhos/cm	1	B1H2505	DTP	08/25/2021	08/25/2021
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Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

PWVS01@4'

8/24/2021 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108484-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	4.14	0.202	mg/L	1	B1H2501	JMA	08/25/2021	08/25/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2418	KDK	08/24/2021	08/24/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	84.7 %	50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2417	KDK	08/24/2021	08/25/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.3 %	70-130			"	"	"
Surrogate: Toluene-d8	97.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"	"

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

PWVS01@4'

8/24/2021 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108484-02 (Soil)**

**Metals by Saturated Paste**

Calcium	0.806	0.0499	meq/L	1	[CALC]	CJM	08/25/2021	08/25/2021
Magnesium	0.190	0.0823	"	"	"	CJM	"	"
Sodium	3.95	0.0435	"	"	"	CJM	"	"

**pH in Soil by 9045D**

pH	8.39		pH Units	1	B1H2503	DTP	08/25/2021	08/25/2021
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**SAR by 20B Saturated Paste**

SAR	5.58		SAR	1	B1H2507	CJM	08/25/2021	08/25/2021
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.510	0.00500	mmhos/cm	1	B1H2505	DTP	08/25/2021	08/25/2021
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Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

PWVE01@4'

8/24/2021 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108484-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.931	0.198	mg/L	1	B110209	JMA	09/02/2021	09/02/2021
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**Metals by Saturated Paste**

Calcium	1.55	0.499	meq/L	10	[CALC]	JMA	09/02/2021	09/02/2021
Magnesium	ND	0.823	"	"	"	JMA	"	"
Sodium	1.15	0.435	"	"	"	JMA	"	"

**pH in Soil by 9045D**

pH	7.80		pH Units	1	B110201	JSM	09/02/2021	09/02/2021
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**SAR by 20B Saturated Paste**

SAR	1.16		SAR	1	B110207	JMA	09/02/2021	09/02/2021
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.711	0.00500	mmhos/cm	1	B110205	JSM	09/02/2021	09/02/2021
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Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

PWVW01@4'

8/24/2021 11:57:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108484-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.201	mg/L	1	B110209	JMA	09/02/2021	09/02/2021
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**Metals by Saturated Paste**

Calcium	1.88	0.499	meq/L	10	[CALC]	JMA	09/02/2021	09/02/2021
Magnesium	0.831	0.823	"	"	"	JMA	"	"
Sodium	ND	0.435	"	"	"	JMA	"	"

**pH in Soil by 9045D**

pH	8.03		pH Units	1	B110201	JSM	09/02/2021	09/02/2021
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**SAR by 20B Saturated Paste**

SAR	0.370		SAR	1	B110207	JMA	09/02/2021	09/02/2021
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.338	0.00500	mmhos/cm	1	B110205	JSM	09/02/2021	09/02/2021
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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

PWVN01@4'

8/24/2021 11:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108484-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.472	0.197	mg/L	1	B110209	JMA	09/02/2021	09/02/2021
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**Metals by Saturated Paste**

Calcium	1.34	0.499	meq/L	10	[CALC]	JMA	09/02/2021	09/02/2021
Magnesium	ND	0.823	"	"	"	JMA	"	"
Sodium	1.75	0.435	"	"	"	JMA	"	"

**pH in Soil by 9045D**

pH	8.16		pH Units	1	B110201	JSM	09/02/2021	09/02/2021
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**SAR by 20B Saturated Paste**

SAR	1.74		SAR	1	B110207	JMA	09/02/2021	09/02/2021
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.409	0.00500	mmhos/cm	1	B110205	JSM	09/02/2021	09/02/2021
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Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

SEP01@3'

8/24/2021 11:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108484-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.260	0.200	mg/L	1	B1H2501	JMA	08/25/2021	08/25/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2418	KDK	08/24/2021	08/24/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	72.0 %	50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2417	KDK	08/24/2021	08/25/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130			"	"	"
Surrogate: Toluene-d8	97.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

SEP01@3'

8/24/2021 11:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108484-06 (Soil)**

**Metals by Saturated Paste**

Calcium	2.33	0.0499	meq/L	1	[CALC]	CJM	08/25/2021	08/25/2021
Magnesium	0.880	0.0823	"	"	"	CJM	"	"
Sodium	0.402	0.0435	"	"	"	CJM	"	"

**pH in Soil by 9045D**

pH	8.17		pH Units	1	B1H2503	DTP	08/25/2021	08/25/2021
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**SAR by 20B Saturated Paste**

SAR	0.317		SAR	1	B1H2507	CJM	08/25/2021	08/25/2021
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.388	0.00500	mmhos/cm	1	B1H2505	DTP	08/25/2021	08/25/2021
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Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

AST01@6"

8/24/2021 12:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108484-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.914	0.199	mg/L	1	B1H2501	JMA	08/25/2021	08/25/2021	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2418	KDK	08/24/2021	08/24/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	84.4 %	50-150			"	"	"	
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**GBTEX+TMBs**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2417	KDK	08/24/2021	08/25/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.3 %	70-130			"	"	"
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

AST01@6"

8/24/2021 12:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y108484-07 (Soil)**

**Metals by Saturated Paste**

Calcium	0.609	0.0499	meq/L	1	[CALC]	CJM	08/25/2021	08/25/2021
Magnesium	0.330	0.0823	"	"	"	CJM	"	"
Sodium	6.61	0.0435	"	"	"	CJM	"	"

**pH in Soil by 9045D**

pH	8.60		pH Units	1	B1H2503	DTP	08/25/2021	08/25/2021
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**SAR by 20B Saturated Paste**

SAR	9.65		SAR	1	B1H2507	CJM	08/25/2021	08/25/2021
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.582	0.00500	mmhos/cm	1	B1H2505	DTP	08/25/2021	08/25/2021
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Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1H2417 - EPA 5030 (soil)</b>										
<b>Blank (B1H2417-BLK1)</b>					Prepared: 08/24/2021 Analyzed: 08/24/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							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		92.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1H2417 - EPA 5030 (soil)</b>										
<b>LCS (B1H2417-BS1)</b>					Prepared: 08/24/2021 Analyzed: 08/24/2021					
1,2,4-Trimethylbenzene	0.0510	0.00200	mg/kg	0.0500		102	70-130			
Naphthalene	0.0577	0.0100	"	0.0500		115	70-130			
1,3,5-Trimethylbenzene	0.0501	0.00200	"	0.0500		100	70-130			
Benzene	0.0518	0.00200	"	0.0500		104	70-130			
Ethylbenzene	0.0498	0.00200	"	0.0500		99.6	70-130			
m,p-Xylene	0.102	0.00400	"	0.100		102	70-130			
o-Xylene	0.0526	0.00200	"	0.0500		105	70-130			
Toluene	0.0510	0.00200	"	0.0500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1H2417 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B1H2417-MS1)</b>		<b>Source: Y108473-01</b>			Prepared: 08/24/2021 Analyzed: 08/24/2021					
1,2,4-Trimethylbenzene	0.0468	0.00200	mg/kg	0.0500	0.000440	92.6	70-130			
Naphthalene	0.0413	0.0100	"	0.0500	ND	82.6	70-130			
1,3,5-Trimethylbenzene	0.0457	0.00200	"	0.0500	ND	91.4	70-130			
Benzene	0.0510	0.00200	"	0.0500	ND	102	70-130			
Ethylbenzene	0.0475	0.00200	"	0.0500	ND	94.9	70-130			
m,p-Xylene	0.0998	0.00400	"	0.100	ND	99.8	70-130			
o-Xylene	0.0483	0.00200	"	0.0500	ND	96.6	70-130			
Toluene	0.0524	0.00200	"	0.0500	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1H2417 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B1H2417-MSD1)</b>		<b>Source: Y108473-01</b>			Prepared: 08/24/2021 Analyzed: 08/24/2021					
1,2,4-Trimethylbenzene	0.0512	0.00200	mg/kg	0.0500	0.000440	102	70-130	9.14	20	
Naphthalene	0.0419	0.0100	"	0.0500	ND	83.8	70-130	1.49	20	
1,3,5-Trimethylbenzene	0.0515	0.00200	"	0.0500	ND	103	70-130	11.8	20	
Benzene	0.0565	0.00200	"	0.0500	ND	113	70-130	10.2	20	
Ethylbenzene	0.0547	0.00200	"	0.0500	ND	109	70-130	14.1	20	
m,p-Xylene	0.114	0.00400	"	0.100	ND	114	70-130	13.1	20	
o-Xylene	0.0556	0.00200	"	0.0500	ND	111	70-130	14.0	20	
Toluene	0.0550	0.00200	"	0.0500	ND	110	70-130	4.81	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1H2418 - EPA 3550B</b>										
<b>Blank (B1H2418-BLK1)</b>					Prepared: 08/24/2021 Analyzed: 08/24/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		82.5	50-150			

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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 B1H2418 - EPA 3550B										
LCS (B1H2418-BS1)					Prepared: 08/24/2021 Analyzed: 08/24/2021					
Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	964	200	"	1000		96.4	70-130			
Surrogate: o-Terphenyl	44		"	50.0		88.0	50-150			

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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 B1H2418 - EPA 3550B

Matrix Spike (B1H2418-MS1)		Source: Y108473-01			Prepared: 08/24/2021 Analyzed: 08/24/2021					
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000	75.9	92.7	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.4	50-150			

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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 B1H2418 - EPA 3550B

Matrix Spike Dup (B1H2418-MSD1)		Source: Y108473-01			Prepared: 08/24/2021 Analyzed: 08/24/2021					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130	6.14	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	75.9	98.3	70-130	5.51	35	
Surrogate: o-Terphenyl	43		"	50.0		85.0	50-150			

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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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## 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 B1H2503 - NO PREP

Duplicate (B1H2503-DUP1)		Source: Y108473-01		Prepared: 08/25/2021 Analyzed: 08/25/2021	
pH	8.53	pH Units	8.31	2.61	

#### Batch B1H2505 - NO PREP

Blank (B1H2505-BLK1)				Prepared: 08/25/2021 Analyzed: 08/25/2021	
Specific Conductance (EC)	0.00250	0.00500	mmhos/cm		
Duplicate (B1H2505-DUP1)		Source: Y108473-01		Prepared: 08/25/2021 Analyzed: 08/25/2021	
Specific Conductance (EC)	3.00	0.00500	mmhos/cm	2.83	5.95

#### Batch B1I0201 - NO PREP

Duplicate (B1I0201-DUP1)		Source: Y109004-01		Prepared: 09/02/2021 Analyzed: 09/02/2021	
pH	7.76	pH Units	7.93	2.17	

#### Batch B1I0205 - NO PREP

Blank (B1I0205-BLK1)				Prepared: 09/02/2021 Analyzed: 09/02/2021	
Specific Conductance (EC)	0.00250	0.00500	mmhos/cm		
Duplicate (B1I0205-DUP1)		Source: Y109019-01		Prepared: 09/02/2021 Analyzed: 09/02/2021	
Specific Conductance (EC)	10.3	0.00500	mmhos/cm	9.25	11.2

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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September 22, 2021

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - Donley 1-36

Project Number - 744.2101.01-321339

Attached are your analytical results for Donley 1-36 received by Origins Laboratory, Inc. September 16, 2021. This project is associated with Origins project number Y109320-01.

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

Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Well E02@6'	Y109320-01	Soil	September 16, 2021 12:18	09/16/2021 15:27

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

www.originslaboratory.com

1/09320

page ☐ of ☐

**ORIGINS**  
LABORATORY, INC

Client: Extraction Oil and Gas  
Address: 370 17th Street, Ste. 5300, Denver, CO 80202

Project Manager: Nathan Bennett (XOG), Maggie Graham (Apex)  
Project Name: Donley 1-36  
Project Number: 744.2101.01- 321339  
Samples Collected by: Apex Companies,

Telephone Number: 907-538-7699  
Email Address: Apex Companies,  
DenverRemediation@ApexCos.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #			
Well E02-06'	9/16	12:18	2						X			Full 915 / Modified 915 (Circle one) Full 915	"Modified 915" = 1
													GIBTEX, DROORO 2
													Naphthalene 3
													1,2,4 + 1,5, 5 Trimethylnaphthalene 4
													EC, SAR, pH, Baran 5
													6
													Full 915= 7
													All above + 915 Metals = 915 PAHs 8
													9
													10
Relinquished By: <i>adp</i>	Date: 9/16/21	Time: 15:25		Received By: <i>AG</i>	Date: 9/16/21	Time: 15:27		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>					
Relinquished By:	Date:	Time:		Received By:	Date:	Time:							

Date Results Needed

5.4

Origins Laboratory, Inc.

*Jefe Pellegrini*

Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y109320

Client: Apex

Client Project ID: Donley 1-36

Checklist Completed by: JG

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

Date/time completed: 9/16/21

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

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid

Water \_\_\_\_\_ Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 5.4 °C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 9/16/21

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## Well E02@6'

9/16/2021 12:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y109320-01 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.200	0.200	mg/L	1	B111709	09/17/2021	09/17/2021	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B111620	09/16/2021	09/16/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.1 %	50-150	"	"	"	"	"	
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### GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B111619	09/16/2021	09/16/2021	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	106 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## Well E02@6'

9/16/2021 12:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y109320-01 (Soil)

### GBTEX+TMBs

Surrogate: Toluene-d8	98.2 %		70-130			B11161 9	09/16/2021	09/16/2021	
Surrogate: 4-Bromofluorobenzene	97.9 %		70-130			"	"	"	

### Metals by Saturated Paste

Calcium	9.92		0.499	meq/L	10	[CALC]	09/17/2021	09/20/2021	
Magnesium	7.20		0.823	"	"	"	"	"	
Sodium	3.28		0.435	"	"	"	"	"	

### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	0.00067	mg/Kg	1	L574860	09/20/2021	09/20/2021	
2-Methylnaphthalene	ND	0.00067	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.00067	0.00067	"	"	"	"	"	
Anthracene	ND	0.00067	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00067	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00067	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00067	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00067	0.00067	"	"	"	"	"	
Chrysene	ND	0.00067	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00067	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00067	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## Well E02@6'

9/16/2021 12:18:00PM

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

Y109320-01 (Soil)

### PAH by 8270D SIM

Fluorene	ND	0.00067	0.00067	mg/Kg	1	L574860	09/20/2021	09/20/2021
Indeno(1,2,3-cd)pyrene	ND	0.00067	0.00067	"	"	"	"	"
Naphthalene	ND	0.00067	0.00067	"	"	"	"	"
Pyrene	ND	0.00067	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	72.6 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	77.5 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	68.9 %		29-110			"	"	"

### pH in Soil by 9045D

pH	7.75			pH Units	1	B111702	09/17/2021	09/17/2021
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### SAR by 20B Saturated Paste

SAR	1.12			SAR	1	B111712	09/17/2021	09/20/2021
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.86		0.00500	mmhos/cm	1	B111706	09/17/2021	09/17/2021
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### Total Metals by 6020B

Arsenic	3.14	0.25	0.25	mg/Kg	5	L574678	09/17/2021	09/20/2021
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## Well E02@6'

9/16/2021 12:18:00PM

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

Y109320-01 (Soil)

### Total Metals by 6020B

Barium	136	0.25	0.25	mg/Kg	5	L574678	09/17/2021	09/20/2021
Cadmium	0.167	0.25	0.25	"	"	"	"	"
Copper	12.3	0.25	0.25	"	"	"	"	"
Lead	10.3	0.25	0.25	"	"	"	"	"
Nickel	13.8	0.25	0.25	"	"	"	"	"
Selenium	0.334	0.25	0.25	"	"	"	"	"
Silver	0.0379	0.25	0.25	"	"	"	"	"
Zinc	49.4	2.5	2.5	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.518	0.518	mg/Kg	1	L574871	09/16/2021	09/20/2021
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B111619 - EPA 5030 (soil)</b>										
<b>Blank (B111619-BLK1)</b>					Prepared: 09/16/2021 Analyzed: 09/16/2021					
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	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B111619 - EPA 5030 (soil)</b>										
<b>LCS (B111619-BS1)</b>					Prepared: 09/16/2021 Analyzed: 09/16/2021					
1,2,4-Trimethylbenzene	0.0453	0.00200	mg/kg	0.0500		90.6	70-130			
Naphthalene	0.0513	0.0100	"	0.0500		103	70-130			
1,3,5-Trimethylbenzene	0.0445	0.00200	"	0.0500		89.0	70-130			
Benzene	0.0410	0.00200	"	0.0500		82.0	70-130			
Ethylbenzene	0.0417	0.00200	"	0.0500		83.3	70-130			
m,p-Xylene	0.0868	0.00400	"	0.100		86.8	70-130			
o-Xylene	0.0448	0.00200	"	0.0500		89.6	70-130			
Toluene	0.0426	0.00200	"	0.0500		85.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**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 B111619 - EPA 5030 (soil)**

Matrix Spike (B111619-MS1)		Source: Y109320-01			Prepared: 09/16/2021 Analyzed: 09/16/2021					
1,2,4-Trimethylbenzene	0.0459	0.00200	mg/kg	0.0500	ND	91.8	70-130			
Naphthalene	0.0518	0.0100	"	0.0500	ND	104	70-130			
1,3,5-Trimethylbenzene	0.0443	0.00200	"	0.0500	ND	88.7	70-130			
Benzene	0.0434	0.00200	"	0.0500	ND	86.8	70-130			
Ethylbenzene	0.0421	0.00200	"	0.0500	ND	84.3	70-130			
m,p-Xylene	0.0885	0.00400	"	0.100	ND	88.5	70-130			
o-Xylene	0.0456	0.00200	"	0.0500	ND	91.2	70-130			
Toluene	0.0442	0.00200	"	0.0500	ND	88.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B111619 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B111619-MSD1)</b>		<b>Source: Y109320-01</b>			Prepared: 09/16/2021 Analyzed: 09/16/2021					
1,2,4-Trimethylbenzene	0.0421	0.00200	mg/kg	0.0500	ND	84.2	70-130	8.68	20	QR-02
Naphthalene	0.0404	0.0100	"	0.0500	ND	80.8	70-130	24.9	20	
1,3,5-Trimethylbenzene	0.0418	0.00200	"	0.0500	ND	83.7	70-130	5.80	20	
Benzene	0.0374	0.00200	"	0.0500	ND	74.7	70-130	14.9	20	
Ethylbenzene	0.0397	0.00200	"	0.0500	ND	79.4	70-130	5.91	20	
m,p-Xylene	0.0826	0.00400	"	0.100	ND	82.6	70-130	6.85	20	
o-Xylene	0.0420	0.00200	"	0.0500	ND	84.0	70-130	8.31	20	
Toluene	0.0396	0.00200	"	0.0500	ND	79.3	70-130	10.9	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B111620 - EPA 3550B</b>										
<b>Blank (B111620-BLK1)</b>					Prepared: 09/16/2021 Analyzed: 09/16/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	25.0		81.3	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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 B111620 - EPA 3550B

LCS (B111620-BS1)

Prepared: 09/16/2021 Analyzed: 09/16/2021

Diesel (C10-C28)	883	50.0	mg/kg	1000		88.3	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	46		"	50.0		91.8	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

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 B111620 - EPA 3550B

Matrix Spike (B111620-MS1)		Source: Y109320-01			Prepared: 09/16/2021 Analyzed: 09/16/2021					
Diesel (C10-C28)	904	50.0	mg/kg	1000	ND	90.4	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	58.6	96.3	70-130			
Surrogate: o-Terphenyl	50		"	50.0		99.0	50-150			

Origins Laboratory, Inc.



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4150 Darley Avenue, Suite 1  
Boulder CO 80305

Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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
<b>Batch B111620 - EPA 3550B</b>										
<b>Matrix Spike Dup (B111620-MSD1)</b>		<b>Source: Y109320-01</b>			Prepared: 09/16/2021 Analyzed: 09/16/2021					
Diesel (C10-C28)	721	50.0	mg/kg	1000	ND	72.1	70-130	22.6	35	
Residual Range Organics (C28-C40)	780	200	"	1000	58.6	72.1	70-130	26.8	35	
Surrogate: o-Terphenyl	40		"	50.0		79.2	50-150			

Origins Laboratory, Inc.



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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B111709 - Default Prep Metals

##### Blank (B111709-BLK1)

Prepared: 09/17/2021 Analyzed: 09/17/2021

Boron	ND	0.200	mg/L							U
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#### Batch B111712 - Default Prep Metals

##### Blank (B111712-BLK1)

Prepared: 09/17/2021 Analyzed: 09/20/2021

SAR	0.00		SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Project: Donley 1-36

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B1I1702 - NO PREP</b>										
<b>Duplicate (B1I1702-DUP1)</b>		<b>Source: Y109294-01</b>			Prepared: 09/17/2021 Analyzed: 09/17/2021					
pH	7.71		pH Units		7.60			1.44	25	
<b>Batch B1I1706 - NO PREP</b>										
<b>Blank (B1I1706-BLK1)</b>		Prepared: 09/17/2021 Analyzed: 09/17/2021								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
<b>Duplicate (B1I1706-DUP1)</b>		<b>Source: Y109323-09</b>			Prepared: 09/17/2021 Analyzed: 09/17/2021					
Specific Conductance (EC)	0.137	0.00500	mmhos/cm		0.139			1.37	25	

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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**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 L574860 - 3550B**

MSD (L 87522-MSD-L574860)		Source: 87522			Prepared: 09/20/2021 Analyzed: 09/20/2021					
Fluorene	0.0899	0.00029	mg/Kg	0.166	87522	54.1	30-130	11.6	30	
Pyrene	0.124	0.00059	"	0.166	87522	74.6	30-130	5.8	30	
Naphthalene	0.0775	0.000467	"	0.166	0.000618	46.6	30-130	2.2	30	
Fluoranthene	0.0996	0.00039	"	0.166	87522	60	30-130	15.2	30	
Anthracene	0.0929	0.00033	"	0.166	87522	55.9	30-130	1.1	30	
1-Methylnaphthalene	0.0833	0.00033	"	0.166	0.000508	50.1	30-130	0	30	
Indeno(1,2,3-cd)pyrene	0.0921	0.00029	"	0.166	87522	55.4	30-130	8.4	30	
Acenaphthene	0.0855	0.0003	"	0.166	87522	51.5	30-130	2	30	
2-Methylnaphthalene	0.0833	0.00039	"	0.166	0.00109	49.5	30-130	1.4	30	
Benzo(a)anthracene	0.101	0.00041	"	0.166	87522	60.8	30-130	6.8	30	
Benzo(a)pyrene	0.104	0.00014	"	0.166	87522	62.6	30-130	1.9	30	
Benzo(b)fluoranthene	0.0896	0.00021	"	0.166	87522	53.9	30-130	2.2	30	
Benzo(k)fluoranthene	0.0896	0.00013	"	0.166	87522	53.9	30-130	10.9	30	
Chrysene	0.0954	0.00027	"	0.166	87522	57.4	30-130	2.1	30	
Dibenz(a,h)anthracene	0.0942	0.00036	"	0.166	87522	56.7	30-130	8.8	30	
Surrogate: Nitrobenzene-d5	62.8		"	0.331	212	62.8	29-110			
Surrogate: 2-Fluorobiphenyl	64		"	0.331	201	64	33-115			
Surrogate: 4-Terphenyl-d14	106		"	0.331	223	106	33-122			

MS (L 87522-MS-L574860)		Source: 87522			Prepared: 09/20/2021 Analyzed: 09/20/2021					
Anthracene	0.094	0.00033	mg/Kg	0.163	87522	57.6	30-130			
Benzo(a)pyrene	0.102	0.00014	"	0.163	87522	62.5	30-130			
Benzo(b)fluoranthene	0.0916	0.00021	"	0.163	87522	56.1	30-130			
Benzo(a)anthracene	0.0943	0.00041	"	0.163	87522	57.8	30-130			
Acenaphthene	0.0838	0.0003	"	0.163	87522	51.4	30-130			
2-Methylnaphthalene	0.0845	0.00039	"	0.163	0.00109	51.1	30-130			
1-Methylnaphthalene	0.0833	0.00033	"	0.163	0.000508	51.1	30-130			

Origins Laboratory, Inc.



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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**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 L574860 - 3550B**

MS (L 87522-MS-L574860)		Source: 87522			Prepared: 09/20/2021 Analyzed: 09/20/2021					
Indeno(1,2,3-cd)pyrene	0.0846	0.00029	mg/Kg	0.163	87522	51.9	30-130			
Chrysene	0.0975	0.00027	"	0.163	87522	59.8	30-130			
Dibenz(a,h)anthracene	0.0862	0.00036	"	0.163	87522	52.8	30-130			
Fluorene	0.101	0.00029	"	0.163	87522	61.9	30-130			
Naphthalene	0.0758	0.000467	"	0.163	0.000618	46.5	30-130			
Pyrene	0.117	0.00059	"	0.163	87522	71.7	30-130			
Benzo(k)fluoranthene	0.0803	0.00013	"	0.163	87522	49.2	30-130			
Fluoranthene	0.116	0.00039	"	0.163	87522	71.1	30-130			
Surrogate: 4-Terphenyl-d14	97.8		"	0.327	223	97.8	33-122			
Surrogate: 2-Fluorobiphenyl	65.4		"	0.327	201	65.4	33-115			
Surrogate: Nitrobenzene-d5	62.9		"	0.327	212	62.9	29-110			

LCS (LCS-L574860)		Prepared: 09/20/2021 Analyzed: 09/20/2021								
Fluorene	0.116	0.00029	mg/Kg	0.167		69.4	30-130			
2-Methylnaphthalene	0.106	0.00039	"	0.167		63.4	30-130			
Acenaphthene	0.113	0.0003	"	0.167		67.6	30-130			
Benzo(a)anthracene	0.127	0.00041	"	0.167		76	30-130			
Benzo(a)pyrene	0.135	0.00014	"	0.167		80.8	30-130			
Benzo(b)fluoranthene	0.109	0.00021	"	0.167		65.2	30-130			
Benzo(k)fluoranthene	0.107	0.00013	"	0.167		64	30-130			
Chrysene	0.119	0.00027	"	0.167		71.2	30-130			
1-Methylnaphthalene	0.106	0.00033	"	0.167		63.4	30-130			
Fluoranthene	0.115	0.00039	"	0.167		68.8	30-130			
Indeno(1,2,3-cd)pyrene	0.126	0.00029	"	0.167		75.4	30-130			
Naphthalene	0.105	0.000467	"	0.167		62.8	30-130			
Pyrene	0.137	0.00059	"	0.167		82	30-130			
Dibenz(a,h)anthracene	0.131	0.00036	"	0.167		78.4	30-130			

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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**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 L574860 - 3550B**

**LCS (LCS-L574860)**

Prepared: 09/20/2021 Analyzed: 09/20/2021

Anthracene	0.122	0.00033	mg/Kg	0.167		73	30-130			
Surrogate: 2-Fluorobiphenyl	78.9		"	0.333		78.9	33-115			
Surrogate: 4-Terphenyl-d14	113		"	0.333		113	33-122			
Surrogate: Nitrobenzene-d5	85.8		"	0.333		85.8	29-110			

**LRB (LRB-L574860)**

Prepared: 09/20/2021 Analyzed: 09/20/2021

Acenaphthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	81.6		"	0.333		81.6	33-115			
Surrogate: 4-Terphenyl-d14	93		"	0.333		93	33-122			
Surrogate: Nitrobenzene-d5	73.2		"	0.333		73.2	29-110			

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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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
<b>Batch L574678 - 3050B</b>										
<b>MSD (L 88920-MSD-L574678)</b>			<b>Source: 88920</b>		Prepared: 09/17/2021 Analyzed: 09/20/2021					
Barium	39	0.042	mg/Kg	4.98	27.7	227	75-125	17.8	80	*
Copper	6.92	0.0806	"	2.49	2.77	167	75-125	38.8	80	*
Arsenic	2.67	0.0855	"	2.49	0.539	86	75-125	0.7	80	
Cadmium	0.559	0.0259	"	0.498	0.0649	112	75-125	8	80	
Nickel	4.67	0.0633	"	2.49	1.94	110	75-125	11.3	80	
Selenium	4.04	0.103	"	4.98	0.3	75	75-125	5.7	80	
Silver	0.542	0.0067	"	0.498	0.0271	109	75-125	10.6	80	
Zinc	44.6	0.534	"	24.9	14.8	120	75-125	18.8	80	
Lead	9.22	0.031	"	2.49	4.25	200	75-125	42.4	80	*
<b>MS (L 88920-MS-L574678)</b>			<b>Source: 88920</b>		Prepared: 09/17/2021 Analyzed: 09/20/2021					
Copper	4.67	0.0806	mg/Kg	2.41	2.77	79	75-125			
Lead	5.99	0.031	"	2.41	4.25	72	75-125			*
Nickel	4.17	0.0633	"	2.41	1.94	93	75-125			
Selenium	4.28	0.103	"	4.81	0.3	83	75-125			
Silver	0.487	0.0067	"	0.481	0.0271	101	75-125			
Cadmium	0.516	0.0259	"	0.481	0.0649	107	75-125			
Barium	32.6	0.042	"	4.81	27.7	102	75-125			
Arsenic	2.69	0.0855	"	2.41	0.539	89	75-125			
Zinc	36.9	0.534	"	24.1	14.8	92	75-125			
<b>LCS (LCS-L574678)</b>			Prepared: 09/17/2021 Analyzed: 09/20/2021							
Arsenic	2.45	0.0855	mg/Kg	2.5		98	80-120			
Selenium	5.01	0.103	"	5		100	80-120			
Silver	0.479	0.0067	"	0.5		96	80-120			
Zinc	22.7	0.534	"	25		91	80-120			
Lead	2.35	0.031	"	2.5		94	80-120			

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4150 Darley Avenue, Suite 1  
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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## 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 L574678 - 3050B

#### LCS (LCS-L574678)

Prepared: 09/17/2021 Analyzed: 09/20/2021

Copper	2.27	0.0806	mg/Kg	2.5		91	80-120			
Nickel	2.29	0.0633	"	2.5		92	80-120			
Barium	4.91	0.042	"	5		98	80-120			
Cadmium	0.461	0.0259	"	0.5		92	80-120			

#### LRB (LRB-L574678)

Prepared: 09/17/2021 Analyzed: 09/21/2021

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

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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

**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
<b>Batch L574871 -</b>										
<b>DUP (L 88248-DUP)</b>		<b>Source: 88248</b>			Prepared: Analyzed: 09/20/2021					
Chromium, Hexavalent	ND	0.502	mg/Kg		88248	-		0	20	
<b>MS (L 88248-MS)</b>		<b>Source: 88248</b>			Prepared: Analyzed: 09/20/2021					
Chromium, Hexavalent	6.2	0.507	mg/Kg	8.31	88248	75	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 09/20/2021					
Chromium, Hexavalent	7.33	0.244	mg/Kg	8		92	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 09/20/2021					
Chromium, Hexavalent	0.493	0.5	mg/Kg				-			J

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Apex Companies, LLC  
4150 Darley Avenue, Suite 1  
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Maggie Graham  
Project Number: 744.2101.01-321339  
Project: Donley 1-36

## Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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Jen Pellegrini, Project Manager

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