

June 26, 2024

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - PDC - Wells Ranch 34F

Project Number - [none]

Attached are your analytical results for PDC - Wells Ranch 34F received by Origins Laboratory, Inc. June 05, 2024. This project is associated with Origins project number Y406123-01.

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



Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-07-3	Y406123-01	Soil	June 5, 2024 0:00	06/05/2024 17:00
SS-02-3	Y406123-03	Soil	June 5, 2024 0:00	06/05/2024 17:00

#### Chain of Custody Modification Request

On 6/13/2024, Paul Henehan from Fremont contacted Jennifer Pellegrini via email regarding Y406123 requesting that sample SS-02-3 be taken off hold for full 915 on a same day TAT.

Requested modifications to the chain of custody were made by Jennifer Pellegrini on 6/13/2024.

Origins Laboratory, Inc.



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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: 4406123

Client: Fremont

Client Project ID: Wells Ranch 34F

Checklist Completed by: UT/1

Shipped Via: FW

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

Date/time completed: 6/5/12

Airbill #: N/A

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

Cooler Number/Temperature: 1, 10.1 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7005

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>CD</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"/>		<u>no sample times</u>
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) UT/1

Date/Time Reviewed 6/5/12

Origins Laboratory, Inc.

*J. Bynon*

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

SS-07-3

6/5/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406123-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.867	0.100	mg/L	1	B4F0617	06/06/2024	06/07/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0540	06/05/2024	06/06/2024	Ua
Residual Range Organics (C28-C40)	112	100	"	"	"	"	"	

Surrogate: o-Terphenyl	92.6 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0530	06/05/2024	06/06/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	78.0 %	70-130			"	"	"	
Surrogate: Toluene-d8	72.4 %	70-130			"	"	"	

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

SS-07-3

6/5/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y406123-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 73.0 % 70-130 B4F05 30 06/05/2024 06/06/2024

## Metals by Saturated Paste by EPA 6010

Calcium	1.57	0.499	meq/L	10	[CALC]	06/06/2024	06/07/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.79	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F0551	06/05/2024	06/07/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	0.009	0.005	"	"	"	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

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## SS-07-3

6/5/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406123-01 (Soil)

### PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4F0551	06/05/2024	06/07/2024	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	91.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	107 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.60	pH Units	1	B4F0622	06/06/2024	06/07/2024
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### SAR by 20B Saturated Paste

SAR	1.76	0.0100	SAR	1	B4F0611	06/06/2024	06/07/2024
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.367	0.00500	mmhos/cm	1	B4F0622	06/06/2024	06/07/2024
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### Table 915 metals by EPA 6020B

Arsenic	2.36	0.256	mg/kg	10	B4F0554	06/05/2024	06/06/2024
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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## SS-07-3

6/5/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406123-01 (Soil)

### Table 915 metals by EPA 6020B

Barium	101	8.82	mg/kg	10	B4F0554	06/05/2024	06/06/2024
Cadmium	0.374	0.0882	"	"	"	"	"
Copper	23.0	8.82	"	"	"	"	"
Lead	16.2	0.882	"	"	"	"	"
Nickel	8.96	0.882	"	"	"	"	"
Selenium	0.430	0.229	"	"	"	"	"
Silver	0.105	0.0882	"	"	"	"	"
Zinc	53.4	32.6	"	"	"	"	"

### Total Metals by 7196A

Hexavalent Chromium	ND	0.122	0.305	mg/kg dry	1	2626865	06/14/2024	06/17/2024	U
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Project: PDC - Wells Ranch 34F

## SS-02-3

6/5/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406123-03 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.589	0.101	mg/L	1	B4F1409	06/14/2024	06/17/2024	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F1302	06/13/2024	06/13/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.0 %	50-150			"	"	"	
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F1333	06/13/2024	06/13/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	
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8305 6th St, PO Box 1289

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Project Number: [none]

Project: PDC - Wells Ranch 34F

SS-02-3

6/5/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y406123-03 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.1 %	70-130	B4F1333	06/13/2024	06/13/2024
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	1.93	0.499	meq/L	10	[CALC]	06/14/2024	06/18/2024
Magnesium	0.859	0.823	"	"	"	"	"
Sodium	0.950	0.435	"	"	"	"	"

## PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F1327	06/13/2024	06/15/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: PDC - Wells Ranch 34F

## SS-02-3

6/5/2024 12:00:00AM

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

Y406123-03 (Soil)

### PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4F1327	06/13/2024	06/15/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	89.4 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.32	pH Units	1	B4F1417	06/14/2024	06/18/2024
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### SAR by 20B Saturated Paste

SAR	0.805	0.0100	SAR	1	B4F1413	06/14/2024	06/18/2024
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.401	0.00500	mmhos/cm	1	B4F1417	06/14/2024	06/18/2024
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### Table 915 metals by EPA 6020B

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8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

SS-02-3

6/5/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y406123-03 (Soil)

## Table 915 metals by EPA 6020B

Arsenic	2.13	0.262	mg/kg	10	B4F1334	06/13/2024	06/14/2024
Barium	82.0	9.05	"	"	"	"	"
Cadmium	0.255	0.0905	"	"	"	"	"
Copper	16.6	9.05	"	"	"	"	"
Lead	11.6	0.905	"	"	"	"	"
Nickel	6.55	0.905	"	"	"	"	"
Selenium	0.301	0.235	"	"	"	"	"
Silver	ND	0.0905	"	"	"	"	"
Zinc	36.9	33.5	"	"	"	"	"

## Total Metals by 7196A

Hexavalent Chromium	ND	0.178	0.445	mg/kg dry	1	2631209	06/25/2024	06/26/2024	U
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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

**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 B4F0530 - EPA 5030 (soil)</b>										
<b>Blank (B4F0530-BLK1)</b>					Prepared: 06/05/2024 Analyzed: 06/05/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

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8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: PDC - Wells Ranch 34F

**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 B4F0530 - EPA 5030 (soil)**

**LCS (B4F0530-BS1)**

Prepared: 06/05/2024 Analyzed: 06/05/2024

1,2,4-Trimethylbenzene	0.0982	0.00200	mg/kg	0.100		98.2	70-130			
1,3,5-Trimethylbenzene	0.0987	0.00200	"	0.100		98.7	70-130			
Benzene	0.0948	0.00200	"	0.100		94.8	70-130			
Ethylbenzene	0.0945	0.00200	"	0.100		94.5	70-130			
Naphthalene	0.0974	0.00380	"	0.100		97.4	70-130			
Toluene	0.0911	0.00200	"	0.100		91.1	70-130			
o-Xylene	0.0866	0.00200	"	0.100		86.6	70-130			
m,p-Xylene	0.182	0.00400	"	0.200		91.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

**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 B4F0530 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B4F0530-MS1)</b>		<b>Source: Y406082-01</b>			Prepared: 06/05/2024 Analyzed: 06/05/2024					
1,2,4-Trimethylbenzene	0.131	0.00200	mg/kg	0.100	0.0128	118	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100	0.00302	114	70-130			
Benzene	0.119	0.00200	"	0.100	ND	119	70-130			
Ethylbenzene	0.112	0.00200	"	0.100	0.000720	111	70-130			
Naphthalene	0.112	0.00380	"	0.100	0.00206	110	70-130			
Toluene	0.114	0.00200	"	0.100	ND	114	70-130			
o-Xylene	0.114	0.00200	"	0.100	0.00226	111	70-130			
m,p-Xylene	0.223	0.00400	"	0.200	0.00286	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0530 - EPA 5030 (soil)										
Matrix Spike Dup (B4F0530-MSD1)		Source: Y406082-01			Prepared: 06/05/2024 Analyzed: 06/05/2024					
1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100	0.0128	99.8	70-130	15.0	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	0.00302	98.4	70-130	14.4	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	15.8	20	
Ethylbenzene	0.0991	0.00200	"	0.100	0.000720	98.4	70-130	12.0	20	
Naphthalene	0.0979	0.00380	"	0.100	0.00206	95.8	70-130	13.8	20	
Toluene	0.0982	0.00200	"	0.100	ND	98.2	70-130	15.0	20	
o-Xylene	0.0996	0.00200	"	0.100	0.00226	97.3	70-130	13.2	20	
m,p-Xylene	0.197	0.00400	"	0.200	0.00286	97.1	70-130	12.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## 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 B4F0540 - EPA 3550B

Blank (B4F0540-BLK1)

Prepared: 06/05/2024 Analyzed: 06/05/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		93.3	50-150			

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Fremont Environmental  
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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## 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 B4F0540 - EPA 3550B

### LCS (B4F0540-BS1)

Prepared: 06/05/2024 Analyzed: 06/05/2024

Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	70-130			
Residual Range Organics (C28-C40)	1180	200	"	1000		118	70-130			
Surrogate: o-Terphenyl	65		"	49.8		130	50-150			

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8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: PDC - Wells Ranch 34F

## 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 B4F0540 - EPA 3550B

Matrix Spike (B4F0540-MS1)		Source: Y406104-03			Prepared: 06/05/2024 Analyzed: 06/05/2024					
Diesel (C10-C28)	969	50.0	mg/kg	1000	64.4	90.4	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000	71.7	99.1	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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Project Number: [none]  
Project: PDC - Wells Ranch 34F

## 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 B4F0540 - EPA 3550B										
Matrix Spike Dup (B4F0540-MSD1)			Source: Y406104-03			Prepared: 06/05/2024 Analyzed: 06/05/2024				
Diesel (C10-C28)	1030	50.0	mg/kg	1000	64.4	96.5	70-130	6.05	35	
Residual Range Organics (C28-C40)	1120	200	"	1000	71.7	105	70-130	5.32	35	
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## 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 B4F1302 - EPA 3550B										
Blank (B4F1302-BLK1)					Prepared: 06/13/2024 Analyzed: 06/13/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		85.6	50-150			

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Wellington CO 80549

Paul Henehan

Project Number: [none]

Project: PDC - Wells Ranch 34F

## 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 B4F1302 - EPA 3550B

#### LCS (B4F1302-BS1)

Prepared: 06/13/2024 Analyzed: 06/13/2024

Diesel (C10-C28)	886	50.0	mg/kg	1000		88.6	70-130			
Residual Range Organics (C28-C40)	963	200	"	1000		96.3	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## 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 B4F1302 - EPA 3550B

Matrix Spike (B4F1302-MS1)		Source: Y406123-03			Prepared: 06/13/2024 Analyzed: 06/13/2024					
Diesel (C10-C28)	878	50.0	mg/kg	1000	ND	87.8	70-130			
Residual Range Organics (C28-C40)	973	200	"	1000	ND	97.3	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.7	50-150			

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## 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 B4F1302 - EPA 3550B										
Matrix Spike Dup (B4F1302-MSD1)		Source: Y406123-03			Prepared: 06/13/2024 Analyzed: 06/13/2024					
Diesel (C10-C28)	877	50.0	mg/kg	1000	ND	87.7	70-130	0.0779	35	
Residual Range Organics (C28-C40)	953	200	"	1000	ND	95.3	70-130	2.07	35	
Surrogate: o-Terphenyl	49		"	49.8		99.5	50-150			

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## 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 B4F1333 - EPA 5030 (soil)										
Blank (B4F1333-BLK1)					Prepared: 06/13/2024 Analyzed: 06/13/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

**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 B4F1333 - EPA 5030 (soil)</b>										
<b>LCS (B4F1333-BS1)</b>					Prepared: 06/13/2024 Analyzed: 06/13/2024					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.112	0.00200	"	0.100		112	70-130			
Ethylbenzene	0.0978	0.00200	"	0.100		97.8	70-130			
Naphthalene	0.120	0.00380	"	0.100		120	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.9	70-130			

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Fremont Environmental  
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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

**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 B4F1333 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B4F1333-MS1)</b>		<b>Source: Y406123-03</b>			Prepared: 06/13/2024 Analyzed: 06/13/2024					
1,2,4-Trimethylbenzene	0.0750	0.00200	mg/kg	0.100	ND	75.0	70-130			
1,3,5-Trimethylbenzene	0.0735	0.00200	"	0.100	ND	73.5	70-130			
Benzene	0.0906	0.00200	"	0.100	ND	90.6	70-130			
Ethylbenzene	0.0707	0.00200	"	0.100	0.000620	70.1	70-130			
Naphthalene	0.0677	0.00380	"	0.100	0.00140	66.3	70-130			QM-07
Toluene	0.0799	0.00200	"	0.100	ND	79.9	70-130			
o-Xylene	0.0715	0.00200	"	0.100	ND	71.5	70-130			
m,p-Xylene	0.145	0.00400	"	0.200	ND	72.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

Origins Laboratory, Inc.



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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1333 - EPA 5030 (soil)										
Matrix Spike Dup (B4F1333-MSD1)			Source: Y406123-03		Prepared: 06/13/2024 Analyzed: 06/13/2024					
1,2,4-Trimethylbenzene	0.0812	0.00200	mg/kg	0.100	ND	81.2	70-130	7.89	20	
1,3,5-Trimethylbenzene	0.0793	0.00200	"	0.100	ND	79.3	70-130	7.56	20	
Benzene	0.0964	0.00200	"	0.100	ND	96.4	70-130	6.14	20	
Ethylbenzene	0.0755	0.00200	"	0.100	0.000620	74.9	70-130	6.56	20	
Naphthalene	0.0803	0.00380	"	0.100	0.00140	78.9	70-130	17.1	20	
Toluene	0.0851	0.00200	"	0.100	ND	85.1	70-130	6.23	20	
o-Xylene	0.0763	0.00200	"	0.100	ND	76.3	70-130	6.44	20	
m,p-Xylene	0.154	0.00400	"	0.200	ND	77.1	70-130	5.79	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.6	70-130			

Origins Laboratory, Inc.



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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## 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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## Metals by EPA 6000/7000 Series Methods - 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 B4F0554 - EPA 3050B

#### Blank (B4F0554-BLK1)

Prepared: 06/05/2024 Analyzed: 06/06/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

#### LCS (B4F0554-BS1)

Prepared: 06/05/2024 Analyzed: 06/06/2024

Arsenic	5.01	0.290	mg/kg	5.00	100	80-120
Barium	513	10.0	"	500	103	80-120
Cadmium	5.21	0.100	"	5.00	104	80-120
Copper	51.0	10.0	"	50.0	102	80-120
Lead	5.37	1.00	"	5.00	107	80-120
Nickel	5.02	1.00	"	5.00	100	80-120
Selenium	10.2	0.260	"	9.50	107	80-120
Silver	5.27	0.100	"	5.00	105	80-120
Zinc	49.1	37.0	"	50.0	98.3	80-120

#### Matrix Spike (B4F0554-MS1)

Source: Y406115-01

Prepared: 06/05/2024 Analyzed: 06/06/2024

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Project Number: [none]  
Project: PDC - Wells Ranch 34F

## Metals by EPA 6000/7000 Series Methods - 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 B4F0554 - EPA 3050B

Matrix Spike (B4F0554-MS1)		Source: Y406115-01			Prepared: 06/05/2024 Analyzed: 06/06/2024					
Arsenic	9.09	0.264	mg/kg	4.54	4.63	98.2	75-125			
Barium	884	9.09	"	454	192	152	75-125			QM-07
Cadmium	5.56	0.0909	"	4.54	0.160	119	75-125			
Copper	62.5	9.09	"	45.4	13.8	107	75-125			
Lead	16.7	0.909	"	4.54	13.1	78.6	75-125			
Nickel	20.7	0.909	"	4.54	17.4	73.5	75-125			QM-07
Selenium	9.87	0.236	"	8.63	0.199	112	75-125			
Silver	5.47	0.0909	"	4.54	0.0380	120	75-125			
Zinc	95.7	33.6	"	45.4	51.0	98.4	75-125			

Matrix Spike Dup (B4F0554-MSD1)		Source: Y406115-01			Prepared: 06/05/2024 Analyzed: 06/06/2024					
Arsenic	9.12	0.266	mg/kg	4.59	4.63	97.7	75-125	0.267	20	
Barium	811	9.19	"	459	192	135	75-125	8.60	20	QM-07
Cadmium	5.37	0.0919	"	4.59	0.160	113	75-125	3.54	20	
Copper	62.2	9.19	"	45.9	13.8	105	75-125	0.450	20	
Lead	16.3	0.919	"	4.59	13.1	70.5	75-125	2.03	20	QM-07
Nickel	20.1	0.919	"	4.59	17.4	57.7	75-125	3.37	20	QM-07
Selenium	9.72	0.239	"	8.73	0.199	109	75-125	1.52	20	
Silver	5.33	0.0919	"	4.59	0.0380	115	75-125	2.64	20	
Zinc	118	34.0	"	45.9	51.0	147	75-125	21.2	20	QM-07, QR-DUP

#### Batch B4F1334 - EPA 3050B

Blank (B4F1334-BLK1)		Prepared: 06/13/2024 Analyzed: 06/14/2024								
Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## Metals by EPA 6000/7000 Series Methods - 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 B4F1334 - EPA 3050B

#### Blank (B4F1334-BLK1)

Prepared: 06/13/2024 Analyzed: 06/14/2024

Copper	ND	10.0	mg/kg
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

#### LCS (B4F1334-BS1)

Prepared: 06/13/2024 Analyzed: 06/14/2024

Arsenic	5.29	0.290	mg/kg	5.00	106	80-120
Barium	507	10.0	"	500	101	80-120
Cadmium	5.04	0.100	"	5.00	101	80-120
Copper	51.1	10.0	"	50.0	102	80-120
Lead	5.09	1.00	"	5.00	102	80-120
Nickel	4.52	1.00	"	5.00	90.4	80-120
Selenium	10.6	0.260	"	9.50	111	80-120
Silver	4.95	0.100	"	5.00	99.0	80-120
Zinc	51.9	37.0	"	50.0	104	80-120

#### Matrix Spike (B4F1334-MS1)

Source: Y406104-01

Prepared: 06/13/2024 Analyzed: 06/14/2024

Arsenic	6.06	0.265	mg/kg	4.56	1.41	102	75-125
Barium	514	9.13	"	456	49.7	102	75-125
Cadmium	4.82	0.0913	"	4.56	0.0651	104	75-125
Copper	49.4	9.13	"	45.6	3.67	100	75-125
Lead	9.01	0.913	"	4.56	4.64	95.7	75-125
Nickel	7.69	0.913	"	4.56	3.30	96.1	75-125
Selenium	9.30	0.237	"	8.67	ND	107	75-125
Silver	4.59	0.0913	"	4.56	ND	101	75-125

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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F1334 - EPA 3050B</b>										
<b>Matrix Spike (B4F1334-MS1)</b>		<b>Source: Y406104-01</b>			Prepared: 06/13/2024 Analyzed: 06/14/2024					
Zinc	62.0	33.8	mg/kg	45.6	17.1	98.4	75-125			
<b>Matrix Spike Dup (B4F1334-MSD1)</b>		<b>Source: Y406104-01</b>			Prepared: 06/13/2024 Analyzed: 06/14/2024					
Arsenic	5.68	0.256	mg/kg	4.41	1.41	96.9	75-125	6.53	20	
Barium	482	8.81	"	441	49.7	98.1	75-125	6.44	20	
Cadmium	4.48	0.0881	"	4.41	0.0651	100	75-125	7.26	20	
Copper	46.8	8.81	"	44.1	3.67	97.8	75-125	5.53	20	
Lead	8.64	0.881	"	4.41	4.64	90.6	75-125	4.26	20	
Nickel	7.44	0.881	"	4.41	3.30	93.9	75-125	3.28	20	
Selenium	8.75	0.229	"	8.37	ND	104	75-125	6.07	20	
Silver	4.27	0.0881	"	4.41	ND	97.0	75-125	7.12	20	
Zinc	59.0	32.6	"	44.1	17.1	95.0	75-125	5.03	20	

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Project Number: [none]  
Project: PDC - Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4F0551 - EPA 3580**

**Blank (B4F0551-BLK1)**

Prepared: 06/05/2024 Analyzed: 06/07/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		93.1	60-130			
Surrogate: Pyrene-d10	230		"	200		117	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.0	60-130			

**LCS (B4F0551-BS1)**

Prepared: 06/05/2024 Analyzed: 06/07/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200		96.4	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200		93.3	70-130			
Acenaphthene	0.193	0.020	"	0.200		96.7	70-130			
Anthracene	0.214	0.020	"	0.200		107	70-130			

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4F0551 - EPA 3580**

**LCS (B4F0551-BS1)**

Prepared: 06/05/2024 Analyzed: 06/07/2024

Benzo (a) anthracene	0.212	0.005	mg/kg	0.200		106	70-130
Benzo (a) pyrene	0.249	0.020	"	0.200		125	70-130
Benzo (b) fluoranthene	0.259	0.020	"	0.200		129	70-130
Benzo (g,h,i) perylene	0.228	0.020	"	0.200		114	70-130
Benzo (k) fluoranthene	0.251	0.020	"	0.200		126	70-130
Chrysene	0.217	0.020	"	0.200		108	70-130
Dibenz (a,h) anthracene	0.248	0.020	"	0.200		124	70-130
Fluoranthene	0.229	0.020	"	0.200		114	70-130
Fluorene	0.194	0.020	"	0.200		97.0	70-130
Indeno (1,2,3-cd) pyrene	0.247	0.020	"	0.200		124	70-130
Naphthalene	0.202	0.002	"	0.200		101	70-130
Phenanthrene	0.195	0.020	"	0.200		97.7	70-130
Pyrene	0.229	0.020	"	0.200		115	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130
Surrogate: Anthracene-d10	190		"	200		95.7	60-130
Surrogate: Pyrene-d10	220		"	200		108	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.1	60-130

**Matrix Spike (B4F0551-MS1)**

**Source: Y406112-01**

Prepared: 06/05/2024 Analyzed: 06/07/2024

1-Methylnaphthalene	0.227	0.002	mg/kg	0.200	0.002	113	70-130
2-Methylnaphthalene	0.220	0.002	"	0.200	ND	110	70-130
Acenaphthene	0.193	0.020	"	0.200	0.0006	96.4	70-130
Anthracene	0.181	0.020	"	0.200	0.003	88.6	70-130
Benzo (a) anthracene	0.231	0.005	"	0.200	0.009	111	70-130
Benzo (a) pyrene	0.219	0.020	"	0.200	0.015	102	70-130
Benzo (b) fluoranthene	0.217	0.020	"	0.200	0.015	101	70-130
Benzo (g,h,i) perylene	0.218	0.020	"	0.200	0.019	99.6	70-130

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4F0551 - EPA 3580**

Matrix Spike (B4F0551-MS1)		Source: Y406112-01			Prepared: 06/05/2024 Analyzed: 06/07/2024					
Benzo (k) fluoranthene	0.209	0.020	mg/kg	0.200	0.017	96.2	70-130			
Chrysene	0.212	0.020	"	0.200	0.016	98.0	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	0.027	86.1	70-130			
Fluoranthene	0.264	0.020	"	0.200	0.005	130	70-130			
Fluorene	0.201	0.020	"	0.200	0.003	99.0	70-130			
Indeno (1,2,3-cd) pyrene	0.236	0.020	"	0.200	0.024	106	70-130			
Naphthalene	0.207	0.002	"	0.200	ND	104	70-130			
Phenanthrene	0.234	0.020	"	0.200	0.002	116	70-130			
Pyrene	0.195	0.020	"	0.200	0.005	95.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Pyrene-d10	200		"	200		99.5	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.4	60-130			

Matrix Spike Dup (B4F0551-MSD1)		Source: Y406112-01			Prepared: 06/05/2024 Analyzed: 06/07/2024					
1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	0.002	93.5	70-130	18.6	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	97.9	70-130	11.8	20	
Acenaphthene	0.194	0.020	"	0.200	0.0006	96.6	70-130	0.179	20	
Anthracene	0.232	0.020	"	0.200	0.003	114	70-130	24.9	20	QR-02
Benzo (a) anthracene	0.217	0.005	"	0.200	0.009	104	70-130	6.32	20	
Benzo (a) pyrene	0.217	0.020	"	0.200	0.015	101	70-130	1.05	20	
Benzo (b) fluoranthene	0.211	0.020	"	0.200	0.015	97.9	70-130	2.61	20	
Benzo (g,h,i) perylene	0.229	0.020	"	0.200	0.019	105	70-130	4.57	20	
Benzo (k) fluoranthene	0.186	0.020	"	0.200	0.017	84.9	70-130	11.4	20	
Chrysene	0.209	0.020	"	0.200	0.016	96.6	70-130	1.39	20	
Dibenz (a,h) anthracene	0.209	0.020	"	0.200	0.027	91.4	70-130	5.16	20	
Fluoranthene	0.254	0.020	"	0.200	0.005	124	70-130	4.17	20	

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Project: PDC - Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4F0551 - EPA 3580**

Matrix Spike Dup (B4F0551-MSD1)		Source: Y406112-01			Prepared: 06/05/2024 Analyzed: 06/07/2024					
Fluorene	0.227	0.020	mg/kg	0.200	0.003	112	70-130	12.1	20	
Indeno (1,2,3-cd) pyrene	0.226	0.020	"	0.200	0.024	101	70-130	4.49	20	
Naphthalene	0.190	0.002	"	0.200	ND	95.0	70-130	8.75	20	
Phenanthrene	0.198	0.020	"	0.200	0.002	98.2	70-130	16.7	20	
Pyrene	0.281	0.020	"	0.200	0.005	138	70-130	36.3	20	QM-07
Surrogate: Fluorene-d10	230		ug/kg	200		116	60-130			
Surrogate: Anthracene-d10	190		"	200		92.7	60-130			
Surrogate: Pyrene-d10	260		"	200		129	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.0	60-130			

**Batch B4F1327 - EPA 3580**

Blank (B4F1327-BLK1)		Prepared: 06/13/2024 Analyzed: 06/15/2024								
1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4F1327 - EPA 3580**

**Blank (B4F1327-BLK1)**

Prepared: 06/13/2024 Analyzed: 06/15/2024

Naphthalene	ND	0.002	mg/kg							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	170		ug/kg	200		82.6	60-130			
Surrogate: Anthracene-d10	180		"	200		89.3	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		112	60-130			

**LCS (B4F1327-BS1)**

Prepared: 06/13/2024 Analyzed: 06/15/2024

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		94.2	70-130			
2-Methylnaphthalene	0.192	0.002	"	0.200		96.1	70-130			
Acenaphthene	0.197	0.020	"	0.200		98.5	70-130			
Anthracene	0.187	0.020	"	0.200		93.6	70-130			
Benzo (a) anthracene	0.171	0.005	"	0.200		85.4	70-130			
Benzo (a) pyrene	0.188	0.020	"	0.200		94.0	70-130			
Benzo (b) fluoranthene	0.199	0.020	"	0.200		99.3	70-130			
Benzo (g,h,i) perylene	0.187	0.020	"	0.200		93.6	70-130			
Benzo (k) fluoranthene	0.166	0.020	"	0.200		83.1	70-130			
Chrysene	0.176	0.020	"	0.200		88.0	70-130			
Dibenz (a,h) anthracene	0.226	0.020	"	0.200		113	70-130			
Fluoranthene	0.173	0.020	"	0.200		86.3	70-130			
Fluorene	0.192	0.020	"	0.200		95.8	70-130			
Indeno (1,2,3-cd) pyrene	0.236	0.020	"	0.200		118	70-130			
Naphthalene	0.188	0.002	"	0.200		93.8	70-130			
Phenanthrene	0.196	0.020	"	0.200		97.9	70-130			
Pyrene	0.171	0.020	"	0.200		85.7	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		93.4	60-130			

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4F1327 - EPA 3580**

**LCS (B4F1327-BS1)**

Prepared: 06/13/2024 Analyzed: 06/15/2024

Surrogate: Anthracene-d10	180		ug/kg	200		87.6	60-130
Surrogate: Pyrene-d10	170		"	200		86.5	60-130
Surrogate: Benzo (a) pyrene-d12	230		"	200		113	60-130

**Matrix Spike (B4F1327-MS1)**

**Source: Y406123-03**

Prepared: 06/13/2024 Analyzed: 06/15/2024

1-Methylnaphthalene	0.183	0.002	mg/kg	0.200	0.0009	91.0	70-130
2-Methylnaphthalene	0.192	0.002	"	0.200	0.001	95.3	70-130
Acenaphthene	0.199	0.020	"	0.200	0.001	98.9	70-130
Anthracene	0.187	0.020	"	0.200	ND	93.6	70-130
Benzo (a) anthracene	0.199	0.005	"	0.200	0.004	97.7	70-130
Benzo (a) pyrene	0.205	0.020	"	0.200	0.007	99.3	70-130
Benzo (b) fluoranthene	0.226	0.020	"	0.200	0.005	110	70-130
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	0.006	105	70-130
Benzo (k) fluoranthene	0.186	0.020	"	0.200	0.003	91.8	70-130
Chrysene	0.215	0.020	"	0.200	0.007	104	70-130
Dibenz (a,h) anthracene	0.240	0.020	"	0.200	0.002	119	70-130
Fluoranthene	0.225	0.020	"	0.200	0.007	109	70-130
Fluorene	0.183	0.020	"	0.200	0.001	90.7	70-130
Indeno (1,2,3-cd) pyrene	0.233	0.020	"	0.200	0.006	114	70-130
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130
Phenanthrene	0.201	0.020	"	0.200	0.002	99.6	70-130
Pyrene	0.215	0.020	"	0.200	0.006	104	70-130

Surrogate: Fluorene-d10	180		ug/kg	200		90.3	60-130
Surrogate: Anthracene-d10	180		"	200		91.6	60-130
Surrogate: Pyrene-d10	220		"	200		109	60-130
Surrogate: Benzo (a) pyrene-d12	250		"	200		124	60-130

**Matrix Spike Dup (B4F1327-MSD1)**

**Source: Y406123-03**

Prepared: 06/13/2024 Analyzed: 06/15/2024

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F1327 - EPA 3580</b>										
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	0.0009	95.8	70-130	5.07	20	
2-Methylnaphthalene	0.202	0.002	"	0.200	0.001	101	70-130	5.30	20	
Acenaphthene	0.210	0.020	"	0.200	0.001	104	70-130	5.29	20	
Anthracene	0.193	0.020	"	0.200	ND	96.5	70-130	3.07	20	
Benzo (a) anthracene	0.214	0.005	"	0.200	0.004	105	70-130	7.33	20	
Benzo (a) pyrene	0.176	0.020	"	0.200	0.007	84.8	70-130	15.2	20	
Benzo (b) fluoranthene	0.220	0.020	"	0.200	0.005	107	70-130	2.59	20	
Benzo (g,h,i) perylene	0.214	0.020	"	0.200	0.006	104	70-130	0.818	20	
Benzo (k) fluoranthene	0.208	0.020	"	0.200	0.003	103	70-130	11.1	20	
Chrysene	0.218	0.020	"	0.200	0.007	106	70-130	1.58	20	
Dibenz (a,h) anthracene	0.234	0.020	"	0.200	0.002	116	70-130	2.51	20	
Fluoranthene	0.227	0.020	"	0.200	0.007	110	70-130	1.05	20	
Fluorene	0.203	0.020	"	0.200	0.001	101	70-130	10.2	20	
Indeno (1,2,3-cd) pyrene	0.229	0.020	"	0.200	0.006	111	70-130	1.85	20	
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130	2.33	20	
Phenanthrene	0.221	0.020	"	0.200	0.002	110	70-130	9.38	20	
Pyrene	0.232	0.020	"	0.200	0.006	113	70-130	7.71	20	
Surrogate: Fluorene-d10	190		ug/kg	200		94.4	60-130			
Surrogate: Anthracene-d10	180		"	200		91.7	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## 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 B4F0611 - Saturated Paste Metals

#### Blank (B4F0611-BLK1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

Calcium PPM	ND	10.0	mg/L
SAR	ND	0.0100	SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

#### Duplicate (B4F0611-DUP1)

Source: Y406006-01

Prepared: 06/06/2024 Analyzed: 06/07/2024

Calcium PPM	8.92	10.0	mg/L	10.2	13.6	50
SAR	ND	0.0100	SAR	5.05	200	
Magnesium PPM	0.910	10.0	mg/L	1.06	15.2	50
Sodium PPM	57.3	10.0	"	63.5	10.3	50

### Batch B4F0617 - DTPA Sorbitol Preparation

#### Blank (B4F0617-BLK1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

Boron	ND	0.100	mg/L
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#### Duplicate (B4F0617-DUP1)

Source: Y406091-01

Prepared: 06/06/2024 Analyzed: 06/07/2024

Boron	0.166	0.100	mg/L	0.167	0.837	50
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### Batch B4F1409 - DTPA Sorbitol Preparation

#### Blank (B4F1409-BLK1)

Prepared: 06/14/2024 Analyzed: 06/17/2024

Boron	ND	0.100	mg/L
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#### Duplicate (B4F1409-DUP1)

Source: Y406104-01

Prepared: 06/14/2024 Analyzed: 06/17/2024

Boron	0.0956	0.0996	mg/L	0.113	16.2	50
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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F1413 - Saturated Paste Metals</b>										
<b>Blank (B4F1413-BLK1)</b>					Prepared: 06/14/2024 Analyzed: 06/18/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
<b>Duplicate (B4F1413-DUP1)</b>					<b>Source: Y405686-01</b>		Prepared: 06/14/2024 Analyzed: 06/18/2024			
Calcium PPM	15.0	10.0	mg/L		21.4			35.3	50	
SAR	ND	0.0100	SAR		0.115				200	
Magnesium PPM	3.10	10.0	mg/L		4.04			26.3	50	
Sodium PPM	2.00	10.0	"		2.22			10.4	50	

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Project: PDC - Wells Ranch 34F

## 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 B4F0622 - Saturated Paste pH/EC

#### Blank (B4F0622-BLK1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B4F0622-DUP1)

Source: Y406006-01

Prepared: 06/06/2024 Analyzed: 06/07/2024

pH	8.53		pH Units	8.55		0.234	25
Specific Conductance (EC)	0.314	0.00500	mmhos/cm	0.346		9.62	25

### Batch B4F1417 - Saturated Paste pH/EC

#### Blank (B4F1417-BLK1)

Prepared: 06/14/2024 Analyzed: 06/18/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

#### Duplicate (B4F1417-DUP1)

Source: Y405686-01

Prepared: 06/14/2024 Analyzed: 06/18/2024

Specific Conductance (EC)	0.125	0.00500	mmhos/cm	0.149		17.9	25
pH	7.72		pH Units	8.04		4.06	25

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Project Number: [none]  
Project: PDC - Wells Ranch 34F

## Total Metals by 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2631209 - SW846 3060A										
BLANK (1205771139-BLK)					Prepared: 06/25/2024 Analyzed: 06/26/2024					U
Hexavalent Chromium	ND	0.293	mg/kg				-			
LCS (1205771140-BKS)					Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	3.71	0.371	mg/kg	3.71		99.9	80-120			
DUP (1205771141 D)					Source: 671766001 Prepared: 06/25/2024 Analyzed: 06/26/2024					U
Hexavalent Chromium	ND	0.274	mg/kg dry		<0.110		0-50	N/A	50	
MS (1205771142 S)					Source: 671766001 Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	1.65	0.274	mg/kg dry	2.74	<0.110	57.5	75-125			
DUP (1205771143 D)					Source: 671788002 Prepared: 06/25/2024 Analyzed: 06/26/2024					h
Hexavalent Chromium	0.140	0.299	mg/kg dry		<0.120		0-50	N/A	50	
MS (1205771144 S)					Source: 671788002 Prepared: 06/25/2024 Analyzed: 06/26/2024					h
Hexavalent Chromium	2.39	0.299	mg/kg dry	2.99	<0.120	76.4	75-125			
ILCS (1205771145-ILCS)					Prepared: 06/25/2024 Analyzed: 06/26/2024					
Hexavalent Chromium	7.99	0.381	mg/kg	7.80		102	80-120			

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Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

## Total Metals by 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2626865 - SW846 3060A										
BLANK (1205762011-BLK)					Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	ND	0.281	mg/kg				-			U
LCS (1205762012-BKS)					Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	2.78	0.280	mg/kg	2.80		99.3	80-120			
DUP (1205762013 D)					Source: 670680001 Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	ND	0.367	mg/kg dry		<0.147		0-50	N/A	50	U
MS (1205762014 S)					Source: 670680001 Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	2.43	0.367	mg/kg dry	3.67	<0.147	65	75-125			
DUP (1205762015 D)					Source: 670689006 Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	ND	0.342	mg/kg dry		<0.137		0-50	N/A	50	U
MS (1205762016 S)					Source: 670689006 Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	2.98	0.342	mg/kg dry	3.42	<0.137	85.9	75-125			
ILCS (1205762017-ILCS)					Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	5.90	0.293	mg/kg	6.06		97.4	80-120			

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### Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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.

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

hJ [Undefined]

h Preparation or preservation holding time was exceeded

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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