

May 01, 2020

**Fremont Environmental**

**Paul Henehan**

**8305 6th St, PO Box 1289**

**Wellington CO 80549**

**Project Name - Great Western - Pierce Station**

**Project Number - [none]**

Attached are your analytical results for Great Western - Pierce Station received by Origins Laboratory, Inc. April 24, 2020. This project is associated with Origins project number Y004329-01.

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: Great Western - Pierce Station

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-A 2FT	Y004329-01	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-A 7FT	Y004329-02	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-B 4FT	Y004329-03	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-B 6FT	Y004329-04	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-C 4FT	Y004329-05	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-C 6FT	Y004329-06	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-D 3FT	Y004329-07	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-D 6FT	Y004329-08	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-E 5FT	Y004329-09	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-E 1.5FT	Y004329-10	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-F 4FT	Y004329-11	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-G 4FT	Y004329-12	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-H 2FT	Y004329-13	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-H 6FT	Y004329-14	Soil	April 23, 2020 0:00	04/24/2020 10:06

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.*

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

Paul Henehan  
Project Number: [none]  
Project: Great Western - Pierce Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-I 4FT	Y004329-15	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-I 5FT	Y004329-16	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-J 3FT	Y004329-17	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-J 5FT	Y004329-18	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-K 4FT	Y004329-19	Soil	April 23, 2020 0:00	04/24/2020 10:06
SB-K 6FT	Y004329-20	Soil	April 23, 2020 0:00	04/24/2020 10:06

Origins Laboratory, Inc.



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Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

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7004329

page 2 of 2

**ORIGINS**  
 LABORATORY, INC

Client: FREMONT  
 Project Manager: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Project Name: GREAT WESTERN - PIERCE  
 Project Number: \_\_\_\_\_  
 Telephone Number: \_\_\_\_\_  
 Samples Collected By: \_\_\_\_\_  
 Email Address: \_\_\_\_\_

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Groundwater	Soil	Air Summa #	Other	BTEX	
SB-F 4 FT	4/23/20		1	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>					
SB-G 4 FT												
SB-H 2 FT												
SB-I 6 FT												
SB-J 4 FT												
SB-K 5 FT												
SB-L 3 FT												
SB-M 5 FT												
SB-N 4 FT												
SB-O 6 FT												
Relinquished By: <u>[Signature]</u>	Date: 4/24/20	Time: 1006	Time: 1006	Received By: <u>[Signature]</u>	Date: 4-24-20	Date: 4-24-20	Time: 1006	Time: 1006	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard			

Temp Received: 5.1 Date Results Needed

Origins Laboratory, Inc.

*[Signature]*

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

Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y004329 Client: Fremont  
 Client Project ID: GW - Pierce Station  
 Checklist Completed by: JG Shipped Via: HS  
 Date/time completed: 4/24/20 (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 / 5.4 °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: 9003

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"/>		No sample times
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.

Jm Reviewed by (Project Manager) 4/27/20 Date/Time Reviewed

Origins Laboratory, Inc.



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

Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

**SB-A 2FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-01 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/24/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	U
Surrogate: o-Terphenyl	87.1 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

**SB-A 7FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-02 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/25/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	U
Surrogate: o-Terphenyl	76.8 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
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Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

**SB-B 4FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-03 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/25/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	U
Surrogate: o-Terphenyl	76.6 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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 Project Number: [none]  
 Project: Great Western - Pierce Station

**SB-B 6FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-04 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/25/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	U
Surrogate: o-Terphenyl	75.4 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

**SB-C 4FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-05 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	<b>0.864</b>	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/25/2020	
Toluene	<b>3.62</b>	0.0500	"	"	"	ZZZ	"	"	
Ethylbenzene	<b>1.92</b>	0.0500	"	"	"	ZZZ	"	"	
Xylenes, total	<b>11.6</b>	0.0500	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	<b>2180</b>	50.0	"	250	"	KDK	"	04/27/2020	

Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130			"	"		04/25/2020	
Surrogate: Toluene-d8	103 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"		"	

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

Diesel (C10-C28)	<b>6220</b>	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	
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Surrogate: o-Terphenyl	143 %	50-150			"	"		"	
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Origins Laboratory, Inc.



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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

**SB-C 6FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-06 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	0.314	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/25/2020	
Toluene	1.30	0.0500	"	"	"	ZZZ	"	"	
Ethylbenzene	0.726	0.0500	"	"	"	ZZZ	"	"	
Xylenes, total	4.89	0.0500	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	1990	50.0	"	250	"	KDK	"	04/27/2020	

Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130			"	"		04/25/2020	
Surrogate: Toluene-d8	92.5 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"		"	

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

Diesel (C10-C28)	1260	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	
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Surrogate: o-Terphenyl	93.6 %	50-150			"	"		"	
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 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

**SB-D 3FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-07 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	0.120	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	0.844	0.0500	"	"	"	ZZZ	"	"	
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	182	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	363	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	
Surrogate: o-Terphenyl	80.3 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

**SB-D 6FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-08 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	<b>0.0580</b>	0.0500	"	"	"	ZZZ	"	"	
Xylenes, total	<b>0.374</b>	0.0500	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	U
Surrogate: o-Terphenyl	80.2 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

**SB-E 5FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-09 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	U
Surrogate: o-Terphenyl	67.8 %	50-150			"	"	"	"	

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Fremont Environmental  
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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

**SB-E 1.5FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-10 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	U
Toluene	<b>0.343</b>	0.0500	"	"	"	ZZZ	"	"	
Ethylbenzene	<b>0.191</b>	0.0500	"	"	"	ZZZ	"	"	
Xylenes, total	<b>3.22</b>	0.0500	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	<b>335</b>	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	<b>1060</b>	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	
Surrogate: o-Terphenyl	93.9 %	50-150			"	"	"	"	

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Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

**SB-F 4FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-11 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	60.5	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	
Surrogate: o-Terphenyl	78.9 %	50-150			"	"	"	"	

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**SB-G 4FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-12 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	U
Surrogate: o-Terphenyl	75.5 %	50-150			"	"	"	"	

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 Project Number: [none]  
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**SB-H 2FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-13 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	U
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Surrogate: o-Terphenyl	73.7 %	50-150			"	"	"	"	
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 Project: Great Western - Pierce Station

**SB-H 6FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-14 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	U
Surrogate: o-Terphenyl	70.1 %	50-150			"	"	"	"	

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**SB-I 4FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-15 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	17.7	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	162	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	
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Surrogate: o-Terphenyl	76.1 %	50-150			"	"	"	"	
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**SB-I 5FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-16 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	71.7	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	
Surrogate: o-Terphenyl	73.3 %	50-150			"	"	"	"	

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**SB-J 3FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-17 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	<b>53.5</b>	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	110 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.7 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	<b>2310</b>	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	
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Surrogate: o-Terphenyl	94.7 %	50-150			"	"	"	"	
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**SB-J 5FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-18 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.0500	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.6 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	221	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	
Surrogate: o-Terphenyl	83.5 %	50-150			"	"	"	"	

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**SB-K 4FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-19 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	<b>0.108</b>	0.0500	"	"	"	ZZZ	"	"	
Xylenes, total	<b>0.872</b>	0.0500	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	<b>93.4</b>	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	110 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	<b>4860</b>	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	
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Surrogate: o-Terphenyl	91.5 %	50-150			"	"	"	"	
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**SB-K 6FT**

**4/23/2020 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y004329-20 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B0D2405	ZZZ	04/24/2020	04/27/2020	U
Toluene	ND	0.0500	"	"	"	ZZZ	"	"	U
Ethylbenzene	<b>0.229</b>	0.0500	"	"	"	ZZZ	"	"	
Xylenes, total	<b>0.636</b>	0.0500	"	"	"	ZZZ	"	"	
Gasoline Range Hydrocarbons	<b>257</b>	5.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	<b>2950</b>	50.0	mg/kg	1	B0D2406	KDK	"	04/25/2020	
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Surrogate: o-Terphenyl	106 %	50-150			"	"	"	"	
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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0D2405 - EPA 5030 (soil)**

**Blank (B0D2405-BLK1)**

Prepared: 04/24/2020 Analyzed: 04/24/2020

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0D2405 - EPA 5030 (soil)**

**LCS (B0D2405-BS1)**

Prepared: 04/24/2020 Analyzed: 04/24/2020

Benzene	0.102	0.00200	mg/kg	0.100		102	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.209	0.00400	"	0.200		104	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

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 Project: Great Western - Pierce Station

**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 B0D2405 - EPA 5030 (soil)

Matrix Spike (B0D2405-MS1)	Source: Y004329-01			Prepared: 04/24/2020 Analyzed: 04/24/2020						
Benzene	0.0920	0.00200	mg/kg	0.100	ND	92.0	70-130			
Toluene	0.0851	0.00200	"	0.100	ND	85.1	70-130			
Ethylbenzene	0.0891	0.00200	"	0.100	0.00500	84.1	70-130			
m,p-Xylene	0.174	0.00400	"	0.200	0.0135	80.5	70-130			
o-Xylene	0.0879	0.00200	"	0.100	ND	87.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0D2405 - EPA 5030 (soil)

Matrix Spike Dup (B0D2405-MSD1)	Source: Y004329-01			Prepared: 04/24/2020 Analyzed: 04/24/2020						
Benzene	0.0922	0.00200	mg/kg	0.100	ND	92.2	70-130	0.217	20	
Toluene	0.0884	0.00200	"	0.100	ND	88.4	70-130	3.80	20	
Ethylbenzene	0.0913	0.00200	"	0.100	0.00500	86.3	70-130	2.46	20	
m,p-Xylene	0.180	0.00400	"	0.200	0.0135	83.2	70-130	3.08	20	
o-Xylene	0.0900	0.00200	"	0.100	ND	90.0	70-130	2.29	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0D2406 - EPA 3580</b>										
<b>Blank (B0D2406-BLK1)</b>										
					Prepared: 04/24/2020 Analyzed: 04/25/2020					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	44		"	50.0		89.0	50-150			

Origins Laboratory, Inc.



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

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

Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

**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 B0D2406 - EPA 3580**

**LCS (B0D2406-BS1)**

Prepared: 04/24/2020 Analyzed: 04/25/2020

Diesel (C10-C28)	1230	50.0	mg/kg	1000		123	70-130			
Surrogate: o-Terphenyl	61		"	50.0		122	50-150			

Origins Laboratory, Inc.



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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

**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 B0D2406 - EPA 3580

Matrix Spike (B0D2406-MS1)	Source: Y004329-01			Prepared: 04/24/2020 Analyzed: 04/25/2020						
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130			
Surrogate: o-Terphenyl	52		"	50.0		104	50-150			

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Paul Henehan  
 Project Number: [none]  
 Project: Great Western - Pierce Station

**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 B0D2406 - EPA 3580**

<b>Matrix Spike Dup (B0D2406-MSD1)</b>	<b>Source: Y004329-01</b>			Prepared: 04/24/2020 Analyzed: 04/25/2020						
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	0.465	35	
Surrogate: o-Terphenyl	55		"	50.0		110	50-150			

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Paul Henehan  
Project Number: [none]  
Project: Great Western - Pierce Station

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**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.

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