



Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

April 01, 2025

Project Name - PDC - Gus LD Pad

Project Number - [none]

Attached are your analytical results for PDC - Gus LD Pad received by Origins Laboratory March 14, 2025. This project is associated with Origins project number E5C0589-01.

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
303.433.1322
projectmanager@originslab.com



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



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

Paul Henehan
Project Number: [none]
Project: PDC - Gus LD Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG-N 1 FT	E5C0589-01	Soil	March 13, 2025 0:00	03/14/2025 17:20
BG-N 2 FT	E5C0589-02	Soil	March 13, 2025 0:00	03/14/2025 17:20
BG-S 1 FT	E5C0589-03	Soil	March 13, 2025 0:00	03/14/2025 17:20
BG-S 2 FT	E5C0589-04	Soil	March 13, 2025 0:00	03/14/2025 17:20
BG-E 1 FT	E5C0589-05	Soil	March 13, 2025 0:00	03/14/2025 17:20
BG-E 2 FT	E5C0589-06	Soil	March 13, 2025 0:00	03/14/2025 17:20
BG-W 1 FT	E5C0589-07	Soil	March 13, 2025 0:00	03/14/2025 17:20
BG-W 2 FT	E5C0589-08	Soil	March 13, 2025 0:00	03/14/2025 17:20
FS-01 2 FT	E5C0589-09	Soil	March 13, 2025 0:00	03/14/2025 17:20
FS-07 2 FT	E5C0589-10	Soil	March 13, 2025 0:00	03/14/2025 17:20
FS-08 2 FT	E5C0589-11	Soil	March 13, 2025 0:00	03/14/2025 17:20

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

Page 1 of 1

550589



Client: FREMONT
 Address: _____
 Telephone Number: _____
 Email Address: FOUR127@CH2M HILL
 Project Manager: HENEHAN
 Project Name: PDC - Gus LD Pad
 Project Number: _____
 Collected By: HENEHAN
 Invoice/Billing Info: Bill to CH2M HILL
 Key: W=Water
GW=Groundwater
SW=Surface Water
WW=Waste Water
L=Liquid
 S=Soil ISO=Solid O=Oil A=Air G=Gas I=Impres HCL=Hydrochloric HNO3=Nitric H2SO4=Sulfuric HMOH=Sodium Hydroxide

Sample ID	Date Sampled	# of Containers	Matrix Preservative	Analysis	Comments
B6-N 1 FT	3/13/25	2 S			
B6-N 2 FT					
B6-S 1 FT					
B6-S 2 FT					
B6-E 1 FT					
B6-E 2 FT					
B6-W 1 FT					
B6-W 2 FT					
FS-01 2 FT					
FS-07 2 FT					
FS-08 2 FT					

Turnaround Time
 SAME DAY
 24 HR
 48 HR
 72
 Standard

Temp Received: _____ Received On Ice? Yes No

Origins Laboratory

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ORIGINS LABORATORY

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

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

Sample Receipt Checklist

Origins Work Order: ES 0559 Client: Fremont
 Client Project ID: Gus LD Pad

Checklist Completed by: NKM Shipped Via: AD
 Date/time completed: 3/10 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: _____

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


Cooler Number/Temperature: 1 / 10 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 1007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTS due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH ~2 for samples preserved with HNO3, HCL, H2SO4) / pH >10 for samples preserved with NaOH, NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				<u>NO SAMPLES</u>

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 03-18-25

Origins Laboratory


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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-N 1 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-01 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00133	0.00402	mg/kg dry	1	2770129	03/25/2025	03/25/2025	U
2-Methylnaphthalene	ND	0.00133	0.00402	"	"	"	"	"	U
Acenaphthene	ND	0.00133	0.00402	"	"	"	"	"	U
Anthracene	ND	0.00133	0.00402	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00133	0.00402	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00133	0.00402	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00133	0.00402	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00133	0.00402	"	"	"	"	"	U
Chrysene	ND	0.00133	0.00402	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00133	0.00402	"	"	"	"	"	U
Fluoranthene	ND	0.00133	0.00402	"	"	"	"	"	U
Fluorene	ND	0.00133	0.00402	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00133	0.00402	"	"	"	"	"	U
Naphthalene	ND	0.00133	0.00402	"	"	"	"	"	U
Pyrene	ND	0.00133	0.00402	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	33 %				22-135	"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.0966	0.242	mg/kg dry	1	2768824	03/26/2025	03/31/2025	U

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BG-N 1 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0589-01 (Soil)

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	ND		0.0989	mg/L	1	B5C2006	03/20/2025	03/21/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2046	03/20/2025	03/23/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	79.7 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1947	03/19/2025	03/21/2025	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		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %			70-130		"	"	"	

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Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-N 1 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0589-01 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	16.7		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	14.1		0.823	"	"	"	"	"	
Sodium	78.5		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.19			pH Units	1	B5C2419	03/24/2025	03/26/2025	
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SAR by 20B Saturated Paste

SAR	20.0		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.32		0.00500	mmhos/cm	1	B5C2419	03/24/2025	03/26/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.62		0.259	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Barium	163		8.92	"	"	"	"	"	
Cadmium	0.618		0.0892	"	"	"	"	"	
Copper	17.0		8.92	"	"	"	"	"	
Lead	17.9		0.892	"	"	"	"	"	
Nickel	22.1		0.892	"	"	"	"	"	
Selenium	ND		0.232	"	"	"	"	"	

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 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-N 1 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.0892	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Zinc	50.8		33.0	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-N 2 FT
3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-02 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00134	0.00407	mg/kg dry	1	2770129	03/25/2025	03/25/2025	U
2-Methylnaphthalene	ND	0.00134	0.00407	"	"	"	"	"	U
Acenaphthene	ND	0.00134	0.00407	"	"	"	"	"	U
Anthracene	ND	0.00134	0.00407	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00134	0.00407	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00134	0.00407	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00134	0.00407	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00134	0.00407	"	"	"	"	"	U
Chrysene	ND	0.00134	0.00407	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00134	0.00407	"	"	"	"	"	U
Fluoranthene	ND	0.00134	0.00407	"	"	"	"	"	U
Fluorene	ND	0.00134	0.00407	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00134	0.00407	"	"	"	"	"	U
Naphthalene	ND	0.00134	0.00407	"	"	"	"	"	U
Pyrene	ND	0.00134	0.00407	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	34 %				22-135	"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.116	0.291	mg/kg dry	1	2768824	03/26/2025	03/31/2025	U

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-N 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-02 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.101	mg/L	1	B5C2006	03/20/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2046	03/20/2025	03/23/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: <i>o</i> -Terphenyl	110 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1947	03/19/2025	03/21/2025	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	105 %			70-130		"	"	"	
Surrogate: Toluene-d8	99.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %			70-130		"	"	"	

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 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-N 2 FT
3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0589-02 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	5.16		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	5.33		0.823	"	"	"	"	"	
Sodium	63.9		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.06			pH Units	1	B5C2118	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	27.9		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.22		0.00500	mmhos/cm	1	B5C2118	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	12.5		0.269	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Barium	33.5		9.29	"	"	"	"	"	
Cadmium	0.229		0.0929	"	"	"	"	"	
Copper	22.1		9.29	"	"	"	"	"	
Lead	19.5		0.929	"	"	"	"	"	
Nickel	15.9		0.929	"	"	"	"	"	
Selenium	0.296		0.241	"	"	"	"	"	

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Paul Henehan
Project Number: [none]
Project: PDC - Gus LD Pad

BG-N 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-02 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.0929	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Zinc	79.1		34.4	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-S 1 FT
3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-03 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00129	0.00390	mg/kg dry	1	2770129	03/25/2025	03/26/2025	U
2-Methylnaphthalene	ND	0.00129	0.00390	"	"	"	"	"	U
Acenaphthene	ND	0.00129	0.00390	"	"	"	"	"	U
Anthracene	ND	0.00129	0.00390	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00129	0.00390	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00129	0.00390	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00129	0.00390	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00129	0.00390	"	"	"	"	"	U
Chrysene	ND	0.00129	0.00390	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00129	0.00390	"	"	"	"	"	U
Fluoranthene	ND	0.00129	0.00390	"	"	"	"	"	U
Fluorene	ND	0.00129	0.00390	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00129	0.00390	"	"	"	"	"	U
Naphthalene	ND	0.00129	0.00390	"	"	"	"	"	U
Pyrene	ND	0.00129	0.00390	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	23 %			22-135	"	"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.126	0.316	mg/kg dry	1	2768824	03/26/2025	03/31/2025	U

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-S 1 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0589-03 (Soil)

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.264		0.0999	mg/L	1	B5C2006	03/20/2025	03/21/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2046	03/20/2025	03/23/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	82.4 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1947	03/19/2025	03/21/2025	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	110 %			70-130		"	"	"	
Surrogate: Toluene-d8	98.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %			70-130		"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-S 1 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0589-03 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	1.78		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	1.74		0.823	"	"	"	"	"	
Sodium	35.8		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.64			pH Units	1	B5C2118	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	27.0		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.76		0.00500	mmhos/cm	1	B5C2118	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.68		0.257	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Barium	31.6		8.86	"	"	"	"	"	
Cadmium	0.205		0.0886	"	"	"	"	"	
Copper	14.2		8.86	"	"	"	"	"	
Lead	12.2		0.886	"	"	"	"	"	
Nickel	11.8		0.886	"	"	"	"	"	
Selenium	0.299		0.230	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-S 1 FT
3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-03 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.0886	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Zinc	55.4		32.8	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-S 2 FT
3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-04 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00131	0.00397	mg/kg dry	1	2770129	03/25/2025	03/25/2025	U
2-Methylnaphthalene	ND	0.00131	0.00397	"	"	"	"	"	U
Acenaphthene	ND	0.00131	0.00397	"	"	"	"	"	U
Anthracene	ND	0.00131	0.00397	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00131	0.00397	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00131	0.00397	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00131	0.00397	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00131	0.00397	"	"	"	"	"	U
Chrysene	ND	0.00131	0.00397	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00131	0.00397	"	"	"	"	"	U
Fluoranthene	ND	0.00131	0.00397	"	"	"	"	"	U
Fluorene	ND	0.00131	0.00397	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00131	0.00397	"	"	"	"	"	U
Naphthalene	ND	0.00131	0.00397	"	"	"	"	"	U
Pyrene	ND	0.00131	0.00397	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	33 %			22-135		"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.132	0.330	mg/kg dry	1	2768824	03/26/2025	03/31/2025	U

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-S 2 FT
3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.261		0.0995	mg/L	1	B5C2006	03/20/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2046	03/20/2025	03/23/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	83.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1947	03/19/2025	03/21/2025	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		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-S 2 FT
3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0589-04 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	16.9		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	14.3		0.823	"	"	"	"	"	
Sodium	57.6		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.36			pH Units	1	B5C2118	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	14.6		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.51		0.00500	mmhos/cm	1	B5C2118	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.17		0.283	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Barium	121		9.77	"	"	"	"	"	
Cadmium	0.126		0.0977	"	"	"	"	"	
Copper	9.92		9.77	"	"	"	"	"	
Lead	7.26		0.977	"	"	"	"	"	
Nickel	7.93		0.977	"	"	"	"	"	
Selenium	ND		0.254	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
Project Number: [none]
Project: PDC - Gus LD Pad

BG-S 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0589-04 (Soil)
Origins Laboratory**

Table 915 metals by EPA 6020B

Silver	ND		0.0977	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Zinc	ND		36.1	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-E 1 FT
3/13/2025 12:00:00AM

E5C0589-05 (Soil)
GEL Laboratories, LLC

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00140	0.00424	mg/kg dry	1	2770129	03/25/2025	03/25/2025	U
2-Methylnaphthalene	ND	0.00140	0.00424	"	"	"	"	"	U
Acenaphthene	ND	0.00140	0.00424	"	"	"	"	"	U
Anthracene	ND	0.00140	0.00424	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00140	0.00424	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00140	0.00424	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00140	0.00424	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00140	0.00424	"	"	"	"	"	U
Chrysene	ND	0.00140	0.00424	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00140	0.00424	"	"	"	"	"	U
Fluoranthene	ND	0.00140	0.00424	"	"	"	"	"	U
Fluorene	ND	0.00140	0.00424	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00140	0.00424	"	"	"	"	"	U
Naphthalene	ND	0.00140	0.00424	"	"	"	"	"	U
Pyrene	ND	0.00140	0.00424	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	34 %			22-135		"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.113	0.282	mg/kg dry	1	2768824	03/26/2025	03/31/2025	U

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-E 1 FT
3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0589-05 (Soil)

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.131		0.0998	mg/L	1	B5C2006	03/20/2025	03/21/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2046	03/20/2025	03/23/2025	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	B5C1947	03/19/2025	03/21/2025	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	105 %			70-130		"	"	"	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %			70-130		"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-E 1 FT
3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0589-05 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	23.1		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	13.6		0.823	"	"	"	"	"	
Sodium	50.0		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.93			pH Units	1	B5C2118	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	11.7		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.71		0.00500	mmhos/cm	1	B5C2118	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	5.30		0.255	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Barium	71.3		8.80	"	"	"	"	"	
Cadmium	0.383		0.0880	"	"	"	"	"	
Copper	17.4		8.80	"	"	"	"	"	
Lead	15.8		0.880	"	"	"	"	"	
Nickel	22.3		0.880	"	"	"	"	"	
Selenium	0.233		0.229	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-E 1 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-05 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.0880	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Zinc	54.9		32.6	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-E 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-06 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00136	0.00411	mg/kg dry	1	2770129	03/25/2025	03/25/2025	U
2-Methylnaphthalene	ND	0.00136	0.00411	"	"	"	"	"	U
Acenaphthene	ND	0.00136	0.00411	"	"	"	"	"	U
Anthracene	ND	0.00136	0.00411	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00136	0.00411	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00136	0.00411	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00136	0.00411	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00136	0.00411	"	"	"	"	"	U
Chrysene	ND	0.00136	0.00411	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00136	0.00411	"	"	"	"	"	U
Fluoranthene	ND	0.00136	0.00411	"	"	"	"	"	U
Fluorene	ND	0.00136	0.00411	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00136	0.00411	"	"	"	"	"	U
Naphthalene	ND	0.00136	0.00411	"	"	"	"	"	U
Pyrene	ND	0.00136	0.00411	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	44 %			22-135	"	"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.144	0.360	mg/kg dry	1	2768824	03/26/2025	03/31/2025	U

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-E 2 FT
3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0589-06 (Soil)

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.114		0.101	mg/L	1	B5C2006	03/20/2025	03/21/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2046	03/20/2025	03/23/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	90.7 %				50-150	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1947	03/19/2025	03/21/2025	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	109 %				70-130	"	"	"	
Surrogate: Toluene-d8	98.0 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %				70-130	"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-E 2 FT
3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0589-06 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	21.8		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	17.1		0.823	"	"	"	"	"	
Sodium	75.7		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B5C2118	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	17.1		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.10		0.00500	mmhos/cm	1	B5C2118	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	5.63		0.263	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Barium	46.3		9.08	"	"	"	"	"	
Cadmium	0.262		0.0908	"	"	"	"	"	
Copper	18.3		9.08	"	"	"	"	"	
Lead	15.4		0.908	"	"	"	"	"	
Nickel	16.2		0.908	"	"	"	"	"	
Selenium	0.280		0.236	"	"	"	"	"	

Origins Laboratory

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: PDC - Gus LD Pad

BG-E 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-06 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.0908	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Zinc	57.9		33.6	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-W 1 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-07 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00133	0.00404	mg/kg dry	1	2770129	03/25/2025	03/25/2025	U
2-Methylnaphthalene	ND	0.00133	0.00404	"	"	"	"	"	U
Acenaphthene	ND	0.00133	0.00404	"	"	"	"	"	U
Anthracene	ND	0.00133	0.00404	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00133	0.00404	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00133	0.00404	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00133	0.00404	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00133	0.00404	"	"	"	"	"	U
Chrysene	ND	0.00133	0.00404	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00133	0.00404	"	"	"	"	"	U
Fluoranthene	ND	0.00133	0.00404	"	"	"	"	"	U
Fluorene	ND	0.00133	0.00404	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00133	0.00404	"	"	"	"	"	U
Naphthalene	ND	0.00133	0.00404	"	"	"	"	"	U
Pyrene	ND	0.00133	0.00404	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	44 %				22-135	"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.106	0.265	mg/kg dry	1	2768824	03/26/2025	03/31/2025	U

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-W 1 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0589-07 (Soil)

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.121		0.100	mg/L	1	B5C2006	03/20/2025	03/21/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2046	03/20/2025	03/23/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	91.8 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1947	03/19/2025	03/21/2025	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	109 %			70-130		"	"	"	
Surrogate: Toluene-d8	98.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %			70-130		"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-W 1 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0589-07 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	4.32		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	2.59		0.823	"	"	"	"	"	
Sodium	50.9		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.19			pH Units	1	B5C2118	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	27.4		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.79		0.00500	mmhos/cm	1	B5C2118	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.24		0.268	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Barium	187		9.23	"	"	"	"	"	
Cadmium	0.713		0.0923	"	"	"	"	"	
Copper	15.3		9.23	"	"	"	"	"	
Lead	16.8		0.923	"	"	"	"	"	
Nickel	27.3		0.923	"	"	"	"	"	
Selenium	0.288		0.240	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
Project Number: [none]
Project: PDC - Gus LD Pad

BG-W 1 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-07 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.0923	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Zinc	39.6		34.1	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-W 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-08 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00135	0.00410	mg/kg dry	1	2770129	03/25/2025	03/25/2025	U
2-Methylnaphthalene	ND	0.00135	0.00410	"	"	"	"	"	U
Acenaphthene	ND	0.00135	0.00410	"	"	"	"	"	U
Anthracene	ND	0.00135	0.00410	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00135	0.00410	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00135	0.00410	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00135	0.00410	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00135	0.00410	"	"	"	"	"	U
Chrysene	ND	0.00135	0.00410	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00135	0.00410	"	"	"	"	"	U
Fluoranthene	ND	0.00135	0.00410	"	"	"	"	"	U
Fluorene	ND	0.00135	0.00410	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00135	0.00410	"	"	"	"	"	U
Naphthalene	ND	0.00135	0.00410	"	"	"	"	"	U
Pyrene	ND	0.00135	0.00410	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	28 %			22-135		"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.154	0.385	mg/kg dry	1	2768824	03/26/2025	03/31/2025	U

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-W 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0589-08 (Soil)

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B5C2006	03/20/2025	03/21/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2046	03/20/2025	03/23/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	105 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1947	03/19/2025	03/21/2025	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	106 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %			70-130		"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

BG-W 2 FT
3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0589-08 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	3.37		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	2.67		0.823	"	"	"	"	"	
Sodium	53.5		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.98			pH Units	1	B5C2118	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	30.8		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.07		0.00500	mmhos/cm	1	B5C2118	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.54		0.271	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Barium	80.0		9.35	"	"	"	"	"	
Cadmium	0.196		0.0935	"	"	"	"	"	
Copper	14.7		9.35	"	"	"	"	"	
Lead	12.9		0.935	"	"	"	"	"	
Nickel	12.3		0.935	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
Project Number: [none]
Project: PDC - Gus LD Pad

BG-W 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0589-08 (Soil)
Origins Laboratory**

Table 915 metals by EPA 6020B

Silver	ND		0.0935	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Zinc	58.6		34.6	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

FS-01 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-09 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00117	0.00353	mg/kg dry	1	2770129	03/25/2025	03/25/2025	U
2-Methylnaphthalene	ND	0.00117	0.00353	"	"	"	"	"	U
Acenaphthene	ND	0.00117	0.00353	"	"	"	"	"	U
Anthracene	ND	0.00117	0.00353	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00117	0.00353	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00117	0.00353	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00117	0.00353	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00117	0.00353	"	"	"	"	"	U
Chrysene	ND	0.00117	0.00353	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00117	0.00353	"	"	"	"	"	U
Fluoranthene	ND	0.00117	0.00353	"	"	"	"	"	U
Fluorene	ND	0.00117	0.00353	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00117	0.00353	"	"	"	"	"	U
Naphthalene	ND	0.00117	0.00353	"	"	"	"	"	U
Pyrene	ND	0.00117	0.00353	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	35 %			22-135		"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.124	0.309	mg/kg dry	1	2768824	03/26/2025	03/31/2025	U

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

FS-01 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-09 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.0983	mg/L	1	B5C2006	03/20/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2046	03/20/2025	03/23/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: <i>o</i> -Terphenyl	92.3 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1947	03/19/2025	03/21/2025	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	105 %			70-130		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %			70-130		"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

FS-01 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0589-09 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	19.8		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	6.49		0.823	"	"	"	"	"	
Sodium	23.2		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.94			pH Units	1	B5C2118	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	6.40		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.84		0.00500	mmhos/cm	1	B5C2118	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.82		0.251	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Barium	64.5		8.66	"	"	"	"	"	
Cadmium	ND		0.0866	"	"	"	"	"	
Copper	ND		8.66	"	"	"	"	"	
Lead	5.68		0.866	"	"	"	"	"	
Nickel	5.28		0.866	"	"	"	"	"	
Selenium	ND		0.225	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

FS-01 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0589-09 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Silver	ND		0.0866	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Zinc	ND		32.0	"	"	"	"	"	

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

FS-07 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-10 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00127	0.00386	mg/kg dry	1	2770129	03/25/2025	03/25/2025	U
2-Methylnaphthalene	ND	0.00127	0.00386	"	"	"	"	"	U
Acenaphthene	ND	0.00127	0.00386	"	"	"	"	"	U
Anthracene	ND	0.00127	0.00386	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00127	0.00386	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00127	0.00386	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00127	0.00386	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00127	0.00386	"	"	"	"	"	U
Chrysene	ND	0.00127	0.00386	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00127	0.00386	"	"	"	"	"	U
Fluoranthene	ND	0.00127	0.00386	"	"	"	"	"	U
Fluorene	ND	0.00127	0.00386	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00127	0.00386	"	"	"	"	"	U
Naphthalene	ND	0.00127	0.00386	"	"	"	"	"	U
Pyrene	ND	0.00127	0.00386	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	47 %			22-135		"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.188	0.469	mg/kg dry	1	2768824	03/26/2025	03/31/2025	U

Origins Laboratory

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

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

FS-07 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0589-10 (Soil)

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.401		0.0983	mg/L	1	B5C2006	03/20/2025	03/21/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2046	03/20/2025	03/23/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	76.2 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1947	03/19/2025	03/21/2025	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	110 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %			70-130		"	"	"	

Origins Laboratory

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Fremont Environmental
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 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

FS-07 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0589-10 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	23.0		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	19.0		0.823	"	"	"	"	"	
Sodium	78.6		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.09			pH Units	1	B5C2118	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	17.1		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.55		0.00500	mmhos/cm	1	B5C2118	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	6.03		0.243	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Barium	36.5		8.40	"	"	"	"	"	
Cadmium	0.259		0.0840	"	"	"	"	"	
Copper	16.7		8.40	"	"	"	"	"	
Lead	14.6		0.840	"	"	"	"	"	
Nickel	15.3		0.840	"	"	"	"	"	
Selenium	0.297		0.218	"	"	"	"	"	

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Fremont Environmental
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Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

FS-07 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-10 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.0840	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Zinc	55.7		31.1	"	"	"	"	"	

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Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

FS-08 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-11 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00135	0.00410	mg/kg dry	1	2770129	03/25/2025	03/25/2025	U
2-Methylnaphthalene	ND	0.00135	0.00410	"	"	"	"	"	U
Acenaphthene	ND	0.00135	0.00410	"	"	"	"	"	U
Anthracene	ND	0.00135	0.00410	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00135	0.00410	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00135	0.00410	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00135	0.00410	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00135	0.00410	"	"	"	"	"	U
Chrysene	ND	0.00135	0.00410	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00135	0.00410	"	"	"	"	"	U
Fluoranthene	ND	0.00135	0.00410	"	"	"	"	"	U
Fluorene	ND	0.00135	0.00410	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00135	0.00410	"	"	"	"	"	U
Naphthalene	ND	0.00135	0.00410	"	"	"	"	"	U
Pyrene	ND	0.00135	0.00410	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	45 %			22-135		"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.118	0.294	mg/kg dry	1	2768824	03/26/2025	03/31/2025	U

Origins Laboratory

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Fremont Environmental
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 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

FS-08 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0589-11 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.370		0.101	mg/L	1	B5C2006	03/20/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2046	03/20/2025	03/23/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	77.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1947	03/19/2025	03/21/2025	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	109 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %			70-130		"	"	"	

Origins Laboratory

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Fremont Environmental
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 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

FS-08 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0589-11 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	23.8		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	9.78		0.823	"	"	"	"	"	
Sodium	55.4		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.11			pH Units	1	B5C2118	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	13.5		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.86		0.00500	mmhos/cm	1	B5C2118	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.10		0.248	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Barium	42.7		8.55	"	"	"	"	"	
Cadmium	0.236		0.0855	"	"	"	"	"	
Copper	15.1		8.55	"	"	"	"	"	
Lead	14.6		0.855	"	"	"	"	"	
Nickel	11.7		0.855	"	"	"	"	"	
Selenium	0.241		0.222	"	"	"	"	"	

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Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

FS-08 2 FT

3/13/2025 12:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5C0589-11 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Silver	ND		0.0855	mg/kg	10	B5C2037	03/14/2025	03/21/2025	
Zinc	49.4		31.7	"	"	"	"	"	

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Fremont Environmental
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Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C2006 - DTPA Sorbitol Preparation

Blank (B5C2006-BLK1)

Prepared: 03/20/2025 Analyzed: 03/21/2025

Boron ND 0.100 mg/L

Duplicate (B5C2006-DUP1)

Source: E5C0588-59

Prepared: 03/20/2025 Analyzed: 03/21/2025

Boron 0.215 0.0996 mg/L 0.283 27.3 50

Batch B5C2047 - Saturated Paste Metals

Blank (B5C2047-BLK1)

Prepared: 03/20/2025 Analyzed: 03/27/2025

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

Duplicate (B5C2047-DUP1)

Source: E5C0589-01

Prepared: 03/20/2025 Analyzed: 03/27/2025

Calcium PPM 183 10.0 mg/L 335 59.0 50 QR-DUP
 SAR ND 0.0100 SAR 20.0 200
 Magnesium PPM 111 10.0 mg/L 172 43.1 50
 Sodium PPM 1510 10.0 " 1800 18.1 50

Origins Laboratory

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Fremont Environmental
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 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C2046 - EPA 3550B

Blank (B5C2046-BLK1)

Prepared: 03/20/2025 Analyzed: 03/23/2025

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	22		"	24.9		90.3	50-150			

LCS (B5C2046-BS1)

Prepared: 03/20/2025 Analyzed: 03/23/2025

Diesel (C10-C28)	975	50.0	mg/kg	1000		97.5	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

Matrix Spike (B5C2046-MS1)

Source: E5C0589-01

Prepared: 03/20/2025 Analyzed: 03/23/2025

Diesel (C10-C28)	875	50.0	mg/kg	1000	ND	87.5	70-130			
Residual Range Organics (C28-C40)	949	200	"	1000	ND	94.9	70-130			
Surrogate: o-Terphenyl	61		"	49.8		122	50-150			

Matrix Spike Dup (B5C2046-MSD1)

Source: E5C0589-01

Prepared: 03/20/2025 Analyzed: 03/23/2025

Diesel (C10-C28)	898	50.0	mg/kg	1000	ND	89.8	70-130	2.61	35	
Residual Range Organics (C28-C40)	957	200	"	1000	ND	95.7	70-130	0.839	35	
Surrogate: o-Terphenyl	45		"	49.8		91.2	50-150			

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Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C2037 - EPA 3050B

Blank (B5C2037-BLK1)

Prepared: 03/20/2025 Analyzed: 03/21/2025

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 (B5C2037-BS1)

Prepared: 03/20/2025 Analyzed: 03/21/2025

Arsenic	5.02	0.290	mg/kg	5.00		100	80-120			
Barium	499	10.0	"	500		99.7	80-120			
Cadmium	4.98	0.100	"	5.00		99.5	80-120			
Copper	53.0	10.0	"	50.0		106	80-120			
Lead	4.94	1.00	"	5.00		98.9	80-120			
Nickel	5.14	1.00	"	5.00		103	80-120			
Selenium	5.01	0.260	"	5.00		100	80-120			
Silver	5.00	0.100	"	5.00		99.9	80-120			
Zinc	48.3	37.0	"	50.0		96.6	80-120			

Matrix Spike (B5C2037-MS1)

Source: E5C0589-03

Prepared: 03/20/2025 Analyzed: 03/21/2025

Arsenic	19.7	0.284	mg/kg	4.90	2.68	348	75-125			QM-07
Barium	567	9.79	"	490	31.6	109	75-125			
Cadmium	5.55	0.0979	"	4.90	0.205	109	75-125			
Copper	83.5	9.79	"	49.0	14.2	142	75-125			QM-07
Lead	27.1	0.979	"	4.90	12.2	305	75-125			QM-07

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Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C2037 - EPA 3050B

Matrix Spike (B5C2037-MS1)

Source: E5C0589-03

Prepared: 03/20/2025 Analyzed: 03/21/2025

Nickel	29.2	0.979	mg/kg	4.90	11.8	355	75-125			QM-07
Selenium	5.60	0.255	"	4.90	0.299	108	75-125			
Silver	5.01	0.0979	"	4.90	0.0177	102	75-125			
Zinc	159	36.2	"	49.0	55.4	211	75-125			QM-07

Matrix Spike Dup (B5C2037-MSD1)

Source: E5C0589-03

Prepared: 03/20/2025 Analyzed: 03/21/2025

Arsenic	8.92	0.287	mg/kg	4.95	2.68	126	75-125	75.4	20	QM-07, QR-DUP
Barium	552	9.91	"	495	31.6	105	75-125	2.72	20	
Cadmium	5.44	0.0991	"	4.95	0.205	106	75-125	2.08	20	
Copper	74.8	9.91	"	49.5	14.2	122	75-125	11.0	20	
Lead	23.7	0.991	"	4.95	12.2	231	75-125	13.7	20	QM-07
Nickel	20.9	0.991	"	4.95	11.8	185	75-125	32.9	20	QM-07, QR-DUP
Selenium	5.21	0.258	"	4.95	0.299	99.2	75-125	7.11	20	
Silver	5.04	0.0991	"	4.95	0.0177	101	75-125	0.653	20	
Zinc	134	36.7	"	49.5	55.4	158	75-125	16.9	20	QM-07

Origins Laboratory

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Fremont Environmental
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Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C2118 - Saturated Paste pH/EC

Blank (B5C2118-BLK1)

Prepared: 03/21/2025 Analyzed: 03/24/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5C2118-DUP1)

Source: E5C0562-01

Prepared: 03/21/2025 Analyzed: 03/24/2025

pH 8.15 pH Units 8.10 0.615 25

Specific Conductance (EC) 4.64 0.00500 mmhos/cm 4.30 7.66 25

Batch B5C2419 - Saturated Paste pH/EC

Blank (B5C2419-BLK1)

Prepared: 03/24/2025 Analyzed: 03/26/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5C2419-DUP1)

Source: E5C0589-01

Prepared: 03/24/2025 Analyzed: 03/26/2025

Specific Conductance (EC) 6.85 0.00500 mmhos/cm 8.32 19.3 25

pH 8.14 pH Units 8.19 0.612 25

Origins Laboratory

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8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: PDC - Gus LD Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C1947 - EPA 5030 (soil)

Blank (B5C1947-BLK1)

Prepared: 03/19/2025 Analyzed: 03/20/2025

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
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	96.2	70-130
Surrogate: Toluene-d8	0.13		"	0.125	101	70-130
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.5	70-130

LCS (B5C1947-BS1)

Prepared: 03/19/2025 Analyzed: 03/20/2025

1,2,4-Trimethylbenzene	0.118	0.00200	mg/kg	0.100	118	70-130
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100	118	70-130
Benzene	0.107	0.00200	"	0.100	107	70-130
Ethylbenzene	0.118	0.00200	"	0.100	118	70-130
Toluene	0.116	0.00200	"	0.100	116	70-130
o-Xylene	0.111	0.00200	"	0.100	111	70-130
m,p-Xylene	0.234	0.00400	"	0.200	117	70-130
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	96.2	70-130
Surrogate: Toluene-d8	0.13		"	0.125	101	70-130
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.4	70-130

Matrix Spike (B5C1947-MS1)

Source: E5C0476-05

Prepared: 03/19/2025 Analyzed: 03/20/2025

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130
Benzene	0.0948	0.00200	"	0.100	ND	94.8	70-130

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Fremont Environmental
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 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C1947 - EPA 5030 (soil)

Matrix Spike (B5C1947-MS1)		Source: E5C0476-05			Prepared: 03/19/2025 Analyzed: 03/20/2025					
Ethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.0988	0.00200	"	0.100	ND	98.8	70-130			
m,p-Xylene	0.213	0.00400	"	0.200	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	70-130			

Matrix Spike Dup (B5C1947-MSD1)		Source: E5C0476-05			Prepared: 03/19/2025 Analyzed: 03/20/2025					
1,2,4-Trimethylbenzene	0.123	0.00200	mg/kg	0.100	ND	123	70-130	16.6	20	
1,3,5-Trimethylbenzene	0.124	0.00200	"	0.100	ND	124	70-130	16.8	20	
Benzene	0.113	0.00200	"	0.100	ND	113	70-130	17.6	20	
Ethylbenzene	0.122	0.00200	"	0.100	ND	122	70-130	15.2	20	
Toluene	0.122	0.00200	"	0.100	ND	122	70-130	16.1	20	
o-Xylene	0.114	0.00200	"	0.100	ND	114	70-130	14.5	20	
m,p-Xylene	0.249	0.00400	"	0.200	ND	124	70-130	15.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.3	70-130			

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

Paul Henehan
Project Number: [none]
Project: PDC - Gus LD Pad

PAH by 3541/8270 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2770129 - SW846 3541

BLANK (1206046395-BLK)

Prepared: 03/25/2025 Analyzed: 03/25/2025

1-Methylnaphthalene	ND	0.00332	mg/kg	-	-	-	-	-	-	U
2-Methylnaphthalene	ND	0.00332	"	-	-	-	-	-	-	U
Pyrene	ND	0.00332	"	-	-	-	-	-	-	U
Anthracene	ND	0.00332	"	-	-	-	-	-	-	U
Acenaphthene	ND	0.00332	"	-	-	-	-	-	-	U
Fluorene	ND	0.00332	"	-	-	-	-	-	-	U
Benzo(a)pyrene	ND	0.00332	"	-	-	-	-	-	-	U
Benzo(b)fluoranthene	ND	0.00332	"	-	-	-	-	-	-	U
Benzo(k)fluoranthene	ND	0.00332	"	-	-	-	-	-	-	U
Chrysene	ND	0.00332	"	-	-	-	-	-	-	U
Dibenzo(a,h)anthracene	ND	0.00332	"	-	-	-	-	-	-	U
Fluoranthene	ND	0.00332	"	-	-	-	-	-	-	U
Indeno(1,2,3-cd)pyrene	ND	0.00332	"	-	-	-	-	-	-	U
Naphthalene	ND	0.00332	"	-	-	-	-	-	-	U
Benzo(a)anthracene	ND	0.00332	"	-	-	-	-	-	-	U

Surrogate: 5-alpha-Androstane

0.156

"

0.166

94

22-135

LCS (1206046396-BKS)

Prepared: 03/25/2025 Analyzed: 03/25/2025

2-Methylnaphthalene	0.253	0.00332	mg/kg	0.332	76	39-110
Pyrene	0.273	0.00332	"	0.332	82	38-117
Benzo(a)pyrene	0.277	0.00332	"	0.332	84	39-127
Benzo(b)fluoranthene	0.266	0.00332	"	0.332	80	39-123
Anthracene	0.285	0.00332	"	0.332	86	41-117
Benzo(k)fluoranthene	0.253	0.00332	"	0.332	76	40-122
Fluoranthene	0.272	0.00332	"	0.332	82	39-119
Dibenzo(a,h)anthracene	0.269	0.00332	"	0.332	81	38-132
Indeno(1,2,3-cd)pyrene	0.261	0.00332	"	0.332	79	38-133

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Fremont Environmental
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 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

PAH by 3541/8270 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2770129 - SW846 3541

LCS (1206046396-BKS)

Prepared: 03/25/2025 Analyzed: 03/25/2025

Fluorene	0.268	0.00332	mg/kg	0.332		81	37-115			
1-Methylnaphthalene	0.249	0.00332	"	0.332		75	39-109			
Acenaphthene	0.266	0.00332	"	0.332		80	41-112			
Benzo(a)anthracene	0.279	0.00332	"	0.332		84	42-120			
Naphthalene	0.259	0.00332	"	0.332		78	38-109			
Chrysene	0.288	0.00332	"	0.332		87	42-117			
Surrogate: 5-alpha-Androstane	0.143		"	0.166		86	22-135			

LCS D (1206046397-BKSD)

Prepared: 03/25/2025 Analyzed: 03/25/2025

Chrysene	0.211	0.00330	mg/kg	0.330		64	42-117	31	30	
Pyrene	0.202	0.00330	"	0.330		61	38-117	30	30	
1-Methylnaphthalene	0.189	0.00330	"	0.330		57	39-109	27	30	
2-Methylnaphthalene	0.192	0.00330	"	0.330		58	39-110	28	30	
Acenaphthene	0.195	0.00330	"	0.330		59	41-112	31	30	
Anthracene	0.208	0.00330	"	0.330		63	41-117	31	30	
Benzo(a)anthracene	0.207	0.00330	"	0.330		63	42-120	30	30	
Benzo(a)pyrene	0.205	0.00330	"	0.330		62	39-127	30	30	
Benzo(b)fluoranthene	0.196	0.00330	"	0.330		59	39-123	30	30	
Benzo(k)fluoranthene	0.186	0.00330	"	0.330		56	40-122	31	30	
Dibenzo(a,h)anthracene	0.195	0.00330	"	0.330		59	38-132	32	30	
Fluorene	0.198	0.00330	"	0.330		60	37-115	30	30	
Indeno(1,2,3-cd)pyrene	0.190	0.00330	"	0.330		58	38-133	31	30	
Naphthalene	0.199	0.00330	"	0.330		60	38-109	26	30	
Fluoranthene	0.200	0.00330	"	0.330		61	39-119	30	30	
Surrogate: 5-alpha-Androstane	0.135		"	0.165		82	22-135			

MS (1206046398 S)

Source: 714580001

Prepared: 03/25/2025 Analyzed: 03/25/2025

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Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

PAH by 3541/8270 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2770129 - SW846 3541

MS (1206046398 S)

Source: 714580001

Prepared: 03/25/2025 Analyzed: 03/25/2025

Benzo(b)fluoranthene	0.246	0.00353	mg/kg dry	0.353	<0.00117	70	14-136			
Naphthalene	0.259	0.00353	"	0.353	<0.00117	73	16-126			
Indeno(1,2,3-cd)pyrene	0.238	0.00353	"	0.353	<0.00117	67	13-134			
Fluorene	0.257	0.00353	"	0.353	<0.00117	73	16-134			
Fluoranthene	0.254	0.00353	"	0.353	<0.00117	72	14-136			
Dibenzo(a,h)anthracene	0.242	0.00353	"	0.353	<0.00117	69	11-134			
1-Methylnaphthalene	0.249	0.00353	"	0.353	<0.00117	70	15-129			
Benzo(k)fluoranthene	0.231	0.00353	"	0.353	<0.00117	65	18-138			
2-Methylnaphthalene	0.255	0.00353	"	0.353	<0.00117	72	15-132			
Benzo(a)pyrene	0.254	0.00353	"	0.353	<0.00117	72	16-133			
Benzo(a)anthracene	0.255	0.00353	"	0.353	<0.00117	72	20-132			
Anthracene	0.263	0.00353	"	0.353	<0.00117	75	18-136			
Acenaphthene	0.251	0.00353	"	0.353	<0.00117	71	17-129			
Pyrene	0.256	0.00353	"	0.353	<0.00117	72	12-139			
Chrysene	0.264	0.00353	"	0.353	<0.00117	75	19-129			

Surrogate: 5-alpha-Androstane

0.157

"

0.177

0.0923

89

22-135

MSD (1206046399 SD)

Source: 714580001

Prepared: 03/25/2025 Analyzed: 03/25/2025

Benzo(b)fluoranthene	0.266	0.00354	mg/kg dry	0.354	<0.00117	75	14-136	8	30	
1-Methylnaphthalene	0.259	0.00354	"	0.354	<0.00117	73	15-129	4	30	
Acenaphthene	0.271	0.00354	"	0.354	<0.00117	76	17-129	7	30	
Anthracene	0.285	0.00354	"	0.354	<0.00117	80	18-136	8	30	
Fluorene	0.276	0.00354	"	0.354	<0.00117	78	16-134	7	30	
Benzo(a)anthracene	0.281	0.00354	"	0.354	<0.00117	79	20-132	10	30	
2-Methylnaphthalene	0.264	0.00354	"	0.354	<0.00117	74	15-132	3	30	
Naphthalene	0.266	0.00354	"	0.354	<0.00117	75	16-126	3	30	
Pyrene	0.273	0.00354	"	0.354	<0.00117	77	12-139	7	30	

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Fremont Environmental
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 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2770129 - SW846 3541

MSD (1206046399 SD)

Source: 714580001

Prepared: 03/25/2025 Analyzed: 03/25/2025

Benzo(k)fluoranthene	0.252	0.00354	mg/kg dry	0.354	<0.00117	71	18-138	9	30	
Chrysene	0.289	0.00354	"	0.354	<0.00117	82	19-129	9	30	
Dibenzo(a,h)anthracene	0.270	0.00354	"	0.354	<0.00117	76	11-134	11	30	
Benzo(a)pyrene	0.279	0.00354	"	0.354	<0.00117	79	16-133	9	30	
Fluoranthene	0.272	0.00354	"	0.354	<0.00117	77	14-136	7	30	
Indeno(1,2,3-cd)pyrene	0.264	0.00354	"	0.354	<0.00117	74	13-134	10	30	
Surrogate: 5-alpha-Androstane	0.158		"	0.177	0.0923	89	22-135			

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Fremont Environmental
 8305 6th St, PO Box 1289
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Paul Henehan
 Project Number: [none]
 Project: PDC - Gus LD Pad

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2768824 - SW846 3060A

BLANK (1206043801-BLK)

Prepared: 03/26/2025 Analyzed: 03/31/2025

Hexavalent Chromium	ND	0.316	mg/kg				-			U
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LCS (1206043802-BKS)

Prepared: 03/26/2025 Analyzed: 03/31/2025

Hexavalent Chromium	3.78	0.381	mg/kg	3.81		99.3	80-120			
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DUP (1206043803 D)

Source: 714879001

Prepared: 03/26/2025 Analyzed: 03/31/2025

Hexavalent Chromium	ND	0.224	mg/kg dry			<0.0895	0-50	N/A	50	U
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MS (1206043804 S)

Source: 714879001

Prepared: 03/26/2025 Analyzed: 03/31/2025

Hexavalent Chromium	1.63	0.224	mg/kg dry	2.24		<0.0895	72.7	75-125		
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DUP (1206043805 D)

Source: 714879002

Prepared: 03/26/2025 Analyzed: 03/31/2025

Hexavalent Chromium	ND	0.281	mg/kg dry			<0.113	0-50	N/A	50	U
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MS (1206043806 S)

Source: 714879002

Prepared: 03/26/2025 Analyzed: 03/31/2025

Hexavalent Chromium	1.86	0.282	mg/kg dry	2.82		<0.113	65.2	75-125		
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ILCS (1206043807-ILCS)

Prepared: 03/26/2025 Analyzed: 03/31/2025

Hexavalent Chromium	5.39	0.261	mg/kg	5.24		103	80-120			
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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: PDC - Gus LD Pad

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.

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

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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