Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

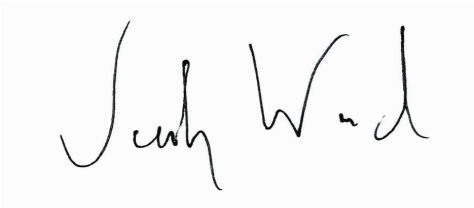
October 10, 2024

Brian Humphrey
Phillips 66
6900 E Layton Ave/ Suite 900
Denver, CO 80237

RE: Four Parmlee (H-6-9) 3/2024
Work Order #2410099

Enclosed are the results of analyses for samples received by Summit Scientific on 10/04/24 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacob Wood For Paul Shrewsbury
President

S2

Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW06@49.5'	2410099-01	Soil	10/04/24 10:44	10/04/24 17:40
MW06@58.7'	2410099-02	Soil	10/04/24 11:12	10/04/24 17:40

Summit Scientific

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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2410099	

	Send Data To:	Send Invoice To:
Client: ~~Tasman~~ DEP/P66	Project Manager: stephen.weathers, Brian Humphrey	Company: Tasman
Address: ~~6855 W 119th Ave~~	E-Mail: stephen.weathers@p66.com	Project Name/Location: Four Parmlee (H-6-9) 03/24
City/State/Zip: ~~Broomfield / CO / 80220~~	bhumphrey@tasmangeo.com	AFE#:
Phone: ~~303-487-1228~~	Project Name: Four Parmlee (H-6-9) 03/24	PO/Billing Codes:
Sampler Name: B.Hurth	Project Number:	Contact: Brian Humphrey

				Preservative					Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	Full Table 915-1								
1	MW06 @ 49.5'	10-4-24	1044	2			X			X			X								
2	MW06 @ 58.7'	↓	1112	↓			↓			↓			↓								
3																					
4																					
5																					
6																					
7																					
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9																					
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11																					
12																					
13																					
14																					
15																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days		Field DO		Notes:
[signature]	10-4-24 1615	Tasman Lockbox	10-4-24 1615	Same Day		Field EC		
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day		Field ORP		
Tasman Lockbox	10424 1740	[signature]	10424 1740	2 Days		Field pH		
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days		Field Temp.		
				Standard	X	Field Turb.		

Temperature Upon Receipt: 10.1	Corrected Temperature 0	IR gun #: 1	HNO3 lot #:

S2

Sample Receipt Checklist

S2 Work Order# 2410099

Client: DCP/PAO Client Project ID: Four Parmlee (HG-9) 03/24

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [ ] Airbill #: [ ]

Matrix (Check all that apply) Air [ ] Soil/Solid [ ] Water [ ] Other [ ]

Temp (°C) 10.1 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? (1) **NOTE:** If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	–			ON ICE
If custody seals are present, are they intact? (1)	–			
Are samples due within 48 hours present?		–		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe^{2+}), Hexavalent Chromium (Cr^{6+}, Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		–		
Is a chain-of-custody (COC) form present and filled out Completely? (1)	–			
Is the COC properly relinquished by the client w/ date and time recorded? (1)	–			
Were all samples received intact? (1)	✓			
Was adequate sample volume provided? (1)	✓			
Does the COC agree with the number and type of sample bottles received? (1)	✓			
Do the sample IDs on the bottle labels match the COC? (1)	✓			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**			✓	
Are samples preserved that require preservation **(excluding cooling)?** (1) Note the type of preservative in the comments column – HCl, H_2SO_4, NaOH, HNO_3, etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

(1) If NO, then contact the client before proceeding with analysis and note in case narrative.

AS
Custodian Printed Name

10/4/24
Date/Time

S2

Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

MW06@49.5'

2410099-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0272	10/07/24	10/07/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0442	*110 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0421	*105 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0426	*106 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

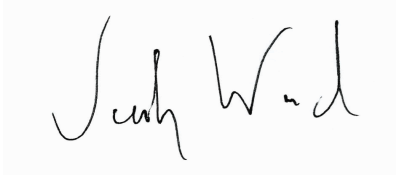
Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0273	10/07/24	10/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.5	*84.3 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM



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Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

MW06@49.5'

2410099-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0256	10/07/24	10/08/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0135	*40.5 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0178	*53.5 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0296	10/08/24	10/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

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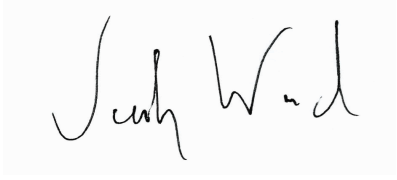

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S2

Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

MW06@49.5'

2410099-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**2.75**	0.200	mg/kg dry	1	BHJ0271	10/07/24	10/09/24	EPA 6020B	
Barium	**41.2**	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	**0.995**	0.400	"	"	"	"	"	"	
Lead	**3.99**	0.200	"	"	"	"	"	"	
Nickel	**1.35**	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	**8.71**	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0291	10/08/24	10/08/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**13.2**	0.0500	mg/L dry	1	BHJ0268	10/07/24	10/08/24	EPA 6020B	
Magnesium	**4.30**	0.0500	"	"	"	"	"	"	
Sodium	**3.79**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.232**	0.00100	units	1	BHJ0331	10/09/24	10/09/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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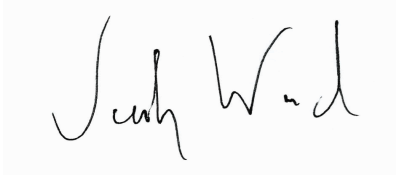

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MW06@49.5'

2410099-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**83.6**		%	1	BHJ0283	10/08/24	10/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

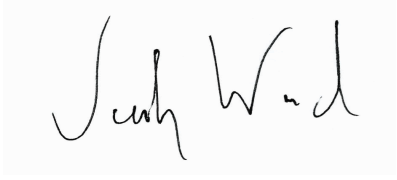
Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.122**	0.0100	mmhos/cm	1	BHJ0270	10/07/24	10/08/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **10/04/24 10:44**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.07**		pH Units	1	BHJ0269	10/07/24	10/08/24	EPA 9045D	



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MW06@58.7'

2410099-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0272	10/07/24	10/07/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0487	*122 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0408	*102 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0422	*106 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

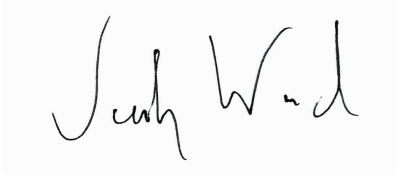
Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0273	10/07/24	10/09/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.20	*73.6 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM



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Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

MW06@58.7'

2410099-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0256	10/07/24	10/08/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	**0.00789**	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	*48.3 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0173	*51.8 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0296	10/08/24	10/08/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

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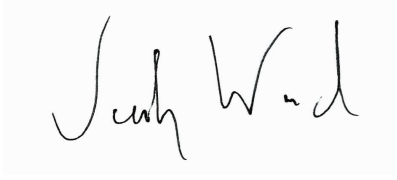

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MW06@58.7'

2410099-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**3.60**	0.200	mg/kg dry	1	BHJ0271	10/07/24	10/09/24	EPA 6020B	
Barium	**36.0**	0.400	"	"	"	"	"	"	
Cadmium	**0.359**	0.200	"	"	"	"	"	"	
Copper	**9.68**	0.400	"	"	"	"	"	"	
Lead	**21.0**	0.200	"	"	"	"	"	"	
Nickel	**8.16**	0.400	"	"	"	"	"	"	
Silver	**0.155**	0.0200	"	"	"	"	"	"	
Zinc	**35.3**	0.400	"	"	"	"	"	"	
Selenium	**0.504**	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0291	10/08/24	10/08/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**13.6**	0.0500	mg/L dry	1	BHJ0268	10/07/24	10/08/24	EPA 6020B	
Magnesium	**5.92**	0.0500	"	"	"	"	"	"	
Sodium	**12.3**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.701**	0.00100	units	1	BHJ0331	10/09/24	10/09/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

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Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

MW06@58.7'

2410099-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	**85.3**	%	1	BHJ0283	10/08/24	10/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

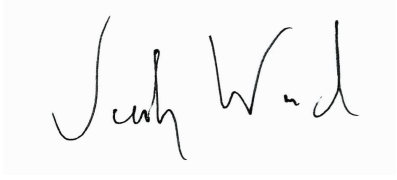
Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.165**	0.0100	mmhos/cm	1	BHJ0270	10/07/24	10/08/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **10/04/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**9.06**		pH Units	1	BHJ0269	10/07/24	10/08/24	EPA 9045D	



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S2

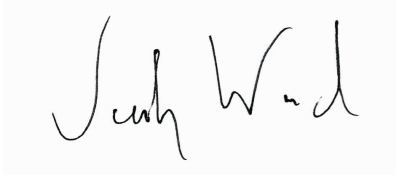
Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHJ0272 - EPA 5030 Soil MS										
Blank (BHJ0272-BLK1)				Prepared & Analyzed: 10/07/24						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0415*		*"*	*0.0400*		*104*	*50-150*			
Surrogate: Toluene-d8	*0.0420*		*"*	*0.0400*		*105*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0420*		*"*	*0.0400*		*105*	*50-150*			
LCS (BHJ0272-BS1)				Prepared & Analyzed: 10/07/24						
Benzene	0.111	0.0020	mg/kg	0.100		111	70-130			
Toluene	0.126	0.0050	"	0.100		126	70-130			
Ethylbenzene	0.116	0.0050	"	0.100		116	70-130			
m,p-Xylene	0.226	0.010	"	0.200		113	70-130			
o-Xylene	0.109	0.0050	"	0.100		109	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130			
Naphthalene	0.0920	0.0038	"	0.100		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0430*		*"*	*0.0400*		*108*	*50-150*			
Surrogate: Toluene-d8	*0.0418*		*"*	*0.0400*		*104*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0404*		*"*	*0.0400*		*101*	*50-150*			
Matrix Spike (BHJ0272-MS1)	**Source: 2410076-01**			Prepared & Analyzed: 10/07/24						
Benzene	0.113	0.0020	mg/kg	0.100	ND	113	70-130			
Toluene	0.119	0.0050	"	0.100	ND	119	70-130			
Ethylbenzene	0.118	0.0050	"	0.100	ND	118	70-130			
m,p-Xylene	0.226	0.010	"	0.200	ND	113	70-130			
o-Xylene	0.110	0.0050	"	0.100	ND	110	70-130			
1,2,4-Trimethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130			
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130			
Naphthalene	0.0982	0.0038	"	0.100	ND	98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0444*		*"*	*0.0400*		*111*	*50-150*			
Surrogate: Toluene-d8	*0.0420*		*"*	*0.0400*		*105*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0404*		*"*	*0.0400*		*101*	*50-150*			

Summit Scientific



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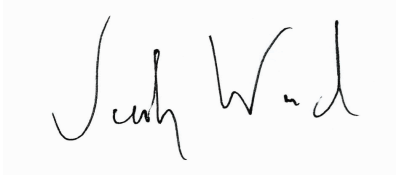
S2

Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHJ0272 - EPA 5030 Soil MS										
Matrix Spike Dup (BHJ0272-MSD1)	**Source: 2410076-01**			Prepared & Analyzed: 10/07/24						
Benzene	0.114	0.0020	mg/kg	0.100	ND	114	70-130	0.159	30	
Toluene	0.119	0.0050	"	0.100	ND	119	70-130	0.479	30	
Ethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130	0.665	30	
m,p-Xylene	0.226	0.010	"	0.200	ND	113	70-130	0.0663	30	
o-Xylene	0.111	0.0050	"	0.100	ND	111	70-130	0.733	30	
1,2,4-Trimethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130	1.04	30	
1,3,5-Trimethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130	2.09	30	
Naphthalene	0.102	0.0038	"	0.100	ND	102	70-130	3.36	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0450*		*"*	*0.0400*		*112*	*50-150*			
Surrogate: Toluene-d8	*0.0420*		*"*	*0.0400*		*105*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0408*		*"*	*0.0400*		*102*	*50-150*			



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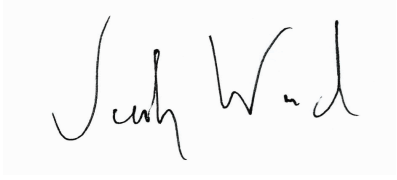
S2

Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHJ0273 - EPA 3550A										
Blank (BHJ0273-BLK1)				Prepared: 10/07/24 Analyzed: 10/09/24						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	*11.7*		*"*	*12.5*		*93.5*	*30-150*			
LCS (BHJ0273-BS1)				Prepared: 10/07/24 Analyzed: 10/09/24						
C10-C28 (DRO)	522	50	mg/kg	500		104	70-130			
Surrogate: o-Terphenyl	*14.9*		*"*	*12.5*		*119*	*30-150*			
Matrix Spike (BHJ0273-MS1)	**Source: 2410075-01**			Prepared: 10/07/24 Analyzed: 10/09/24						
C10-C28 (DRO)	404	50	mg/kg	500	14.5	77.8	70-130			
Surrogate: o-Terphenyl	*16.2*		*"*	*12.5*		*130*	*30-150*			
Matrix Spike Dup (BHJ0273-MSD1)	**Source: 2410075-01**			Prepared: 10/07/24 Analyzed: 10/09/24						
C10-C28 (DRO)	465	50	mg/kg	500	14.5	90.0	70-130	14.1	20	
Surrogate: o-Terphenyl	*16.1*		*"*	*12.5*		*129*	*30-150*			



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Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHJ0256 - EPA 5030 Soil MS										
Blank (BHJ0256-BLK1)				Prepared: 10/07/24 Analyzed: 10/08/24						
Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	*0.0186*		*"*	*0.0333*		*55.7*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0230*		*"*	*0.0333*		*69.0*	*40-150*			
LCS (BHJ0256-BS1)				Prepared: 10/07/24 Analyzed: 10/08/24						
Acenaphthene	0.0218	0.00500	mg/kg	0.0333		65.4	31-137			
Anthracene	0.0220	0.00500	"	0.0333		66.0	30-120			
Benzo (a) anthracene	0.0240	0.00500	"	0.0333		72.1	30-120			
Benzo (a) pyrene	0.0217	0.00500	"	0.0333		65.0	30-120			
Benzo (b) fluoranthene	0.0231	0.00500	"	0.0333		69.3	30-120			
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0333		64.9	30-120			
Chrysene	0.0221	0.00500	"	0.0333		66.2	30-120			
Dibenz (a,h) anthracene	0.0160	0.00500	"	0.0333		48.0	30-120			
Fluoranthene	0.0219	0.00500	"	0.0333		65.7	30-120			
Fluorene	0.0220	0.00500	"	0.0333		66.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0164	0.00500	"	0.0333		49.1	30-120			
Pyrene	0.0225	0.00500	"	0.0333		67.4	35-142			
1-Methylnaphthalene	0.0157	0.00500	"	0.0333		47.1	35-142			
2-Methylnaphthalene	0.0174	0.00500	"	0.0333		52.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	*0.0169*		*"*	*0.0333*		*50.8*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0223*		*"*	*0.0333*		*66.9*	*40-150*			

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Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHJ0256 - EPA 5030 Soil MS										
Matrix Spike (BHJ0256-MS1)	**Source: 2410090-01**			Prepared: 10/07/24 Analyzed: 10/08/24						
Acenaphthene	0.0161	0.00500	mg/kg	0.0333	ND	48.3	31-137			
Anthracene	0.0157	0.00500	"	0.0333	ND	47.0	30-120			
Benzo (a) anthracene	0.0167	0.00500	"	0.0333	ND	50.2	30-120			
Benzo (a) pyrene	0.0146	0.00500	"	0.0333	ND	43.7	30-120			
Benzo (b) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.9	30-120			
Benzo (k) fluoranthene	0.0147	0.00500	"	0.0333	ND	44.0	30-120			
Chrysene	0.0152	0.00500	"	0.0333	ND	45.5	30-120			
Dibenz (a,h) anthracene	0.0137	0.00500	"	0.0333	ND	41.1	30-120			
Fluoranthene	0.0161	0.00500	"	0.0333	ND	48.3	30-120			
Fluorene	0.0173	0.00500	"	0.0333	ND	51.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0136	0.00500	"	0.0333	ND	40.8	30-120			
Pyrene	0.0147	0.00500	"	0.0333	ND	44.0	35-142			
1-Methylnaphthalene	0.0135	0.00500	"	0.0333	ND	40.4	15-130			
2-Methylnaphthalene	0.0133	0.00500	"	0.0333	ND	40.0	15-130			
Surrogate: 2-Methylnaphthalene-d10	*0.0134*		*"*	*0.0333*		*40.3*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0164*		*"*	*0.0333*		*49.3*	*40-150*			
Matrix Spike Dup (BHJ0256-MSD1)	**Source: 2410090-01**			Prepared: 10/07/24 Analyzed: 10/08/24						
Acenaphthene	0.0179	0.00500	mg/kg	0.0333	ND	53.8	31-137	10.8	30	
Anthracene	0.0182	0.00500	"	0.0333	ND	54.5	30-120	14.7	30	
Benzo (a) anthracene	0.0195	0.00500	"	0.0333	ND	58.6	30-120	15.5	30	
Benzo (a) pyrene	0.0160	0.00500	"	0.0333	ND	47.9	30-120	9.20	30	
Benzo (b) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.3	30-120	12.9	30	
Benzo (k) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.7	30-120	12.2	30	
Chrysene	0.0177	0.00500	"	0.0333	ND	53.1	30-120	15.4	30	
Dibenz (a,h) anthracene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	5.62	30	
Fluoranthene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	17.7	30	
Fluorene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	11.9	30	
Indeno (1,2,3-cd) pyrene	0.0137	0.00500	"	0.0333	ND	41.0	30-120	0.557	30	
Pyrene	0.0179	0.00500	"	0.0333	ND	53.7	35-142	19.9	30	
1-Methylnaphthalene	0.0134	0.00500	"	0.0333	ND	40.2	15-130	0.489	50	
2-Methylnaphthalene	0.0145	0.00500	"	0.0333	ND	43.4	15-130	8.22	50	
Surrogate: 2-Methylnaphthalene-d10	*0.0142*		*"*	*0.0333*		*42.6*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0197*		*"*	*0.0333*		*59.0*	*40-150*			

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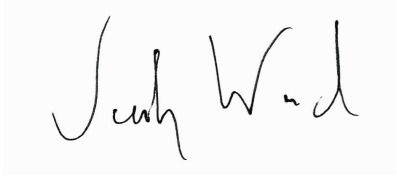
Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHJ0296 - EPA 3050B										
Blank (BHJ0296-BLK1)				Prepared & Analyzed: 10/08/24						
Boron	ND	2.00	mg/L							
LCS (BHJ0296-BS1)				Prepared & Analyzed: 10/08/24						
Boron	4.87	2.00	mg/L	5.00		97.3	80-120			
Duplicate (BHJ0296-DUP1)		**Source: 2410095-01**		Prepared & Analyzed: 10/08/24						
Boron	0.363	2.00	mg/L		0.216			50.7	20	QR-01
Matrix Spike (BHJ0296-MS1)		**Source: 2410095-01**		Prepared & Analyzed: 10/08/24						
Boron	5.06	2.00	mg/L	5.00	0.216	97.0	75-125			
Matrix Spike Dup (BHJ0296-MSD1)		**Source: 2410095-01**		Prepared & Analyzed: 10/08/24						
Boron	5.19	2.00	mg/L	5.00	0.216	99.4	75-125	2.39	25	



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Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHJ0271 - EPA 3050B										
Blank (BHJ0271-BLK1)				Prepared: 10/07/24 Analyzed: 10/08/24						
Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							
LCS (BHJ0271-BS1)				Prepared: 10/07/24 Analyzed: 10/08/24						
Arsenic	35.9	0.200	mg/kg wet	39.1		91.9	80-120			
Barium	38.0	0.400	"	39.1		97.4	80-120			
Cadmium	1.93	0.200	"	1.95		98.9	80-120			
Copper	41.9	0.400	"	39.1		107	80-120			
Lead	18.7	0.200	"	19.5		95.7	80-120			
Nickel	41.8	0.400	"	39.1		107	80-120			
Silver	1.94	0.0200	"	1.95		99.5	80-120			
Zinc	41.2	0.400	"	39.1		106	80-120			
Selenium	4.42	0.260	"	3.91		113	80-120			
Duplicate (BHJ0271-DUP1)				**Source: 2409101-01RE1** Prepared: 10/07/24 Analyzed: 10/08/24						
Arsenic	4.16	0.200	mg/kg wet		3.91			6.01	20	
Barium	161	0.400	"		153			5.12	20	
Cadmium	0.359	0.200	"		0.320			11.5	20	
Copper	6.62	0.400	"		6.22			6.21	20	
Lead	8.65	0.200	"		8.08			6.81	20	
Nickel	6.22	0.400	"		5.88			5.63	20	
Silver	0.0457	0.0200	"		0.0448			1.89	20	
Zinc	23.5	0.400	"		22.3			5.01	20	
Selenium	0.314	0.260	"		0.257			19.9	20	

Summit Scientific

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S2

Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHJ0271 - EPA 3050B										
Matrix Spike (BHJ0271-MS1)	**Source: 2409101-01RE1**			Prepared: 10/07/24 Analyzed: 10/08/24						
Arsenic	38.5	0.181	mg/kg wet	36.2	3.91	95.6	75-125			
Barium	187	0.362	"	36.2	153	94.6	75-125			
Cadmium	2.29	0.181	"	1.81	0.320	109	75-125			
Copper	27.6	0.362	"	36.2	6.22	58.9	75-125			QM-05
Lead	26.7	0.181	"	18.1	8.08	103	75-125			
Nickel	27.7	0.362	"	36.2	5.88	60.3	75-125			QM-05
Silver	1.95	0.0181	"	1.81	0.0448	105	75-125			
Zinc	44.0	0.362	"	36.2	22.3	60.0	75-125			QM-05
Selenium	4.52	0.236	"	3.62	0.257	118	75-125			
Matrix Spike Dup (BHJ0271-MSD1)	**Source: 2409101-01RE1**			Prepared: 10/07/24 Analyzed: 10/08/24						
Arsenic	41.0	0.200	mg/kg wet	38.8	3.91	95.7	75-125	6.18	25	
Barium	191	0.400	"	38.8	153	97.3	75-125	1.80	25	
Cadmium	2.39	0.200	"	1.94	0.320	107	75-125	4.36	25	
Copper	29.7	0.400	"	38.8	6.22	60.5	75-125	7.38	25	QM-05
Lead	28.0	0.200	"	19.4	8.08	103	75-125	5.06	25	
Nickel	29.9	0.400	"	38.8	5.88	61.9	75-125	7.43	25	QM-05
Silver	2.05	0.0200	"	1.94	0.0448	104	75-125	5.36	25	
Zinc	46.8	0.400	"	38.8	22.3	63.3	75-125	6.20	25	QM-05
Selenium	4.73	0.260	"	3.88	0.257	115	75-125	4.46	25	

Summit Scientific

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S2

Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHJ0291 - 3060A_Mod										
Blank (BHJ0291-BLK1)				Prepared & Analyzed: 10/08/24						
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BHJ0291-BS1)				Prepared & Analyzed: 10/08/24						
Chromium, Hexavalent	26.4	0.30	mg/kg wet	25.0		106	80-120			
Duplicate (BHJ0291-DUP1)		**Source: 2410095-01**		Prepared & Analyzed: 10/08/24						
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BHJ0291-MS1)		**Source: 2410095-01**		Prepared & Analyzed: 10/08/24						
Chromium, Hexavalent	31.4	0.30	mg/kg dry	27.2	ND	115	75-125			
Matrix Spike Dup (BHJ0291-MSD1)		**Source: 2410095-01**		Prepared & Analyzed: 10/08/24						
Chromium, Hexavalent	30.0	0.30	mg/kg dry	27.2	ND	110	75-125	4.61	20	

Summit Scientific

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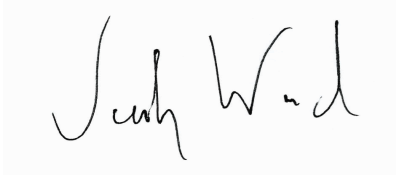
S2

Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHJ0268 - General Preparation										
Blank (BHJ0268-BLK1)				Prepared: 10/07/24 Analyzed: 10/08/24						
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							
LCS (BHJ0268-BS1)				Prepared: 10/07/24 Analyzed: 10/08/24						
Calcium	5.88	0.0500	mg/L wet	5.00		118	70-130			
Magnesium	5.14	0.0500	"	5.00		103	70-130			
Sodium	5.19	0.0500	"	5.00		104	70-130			



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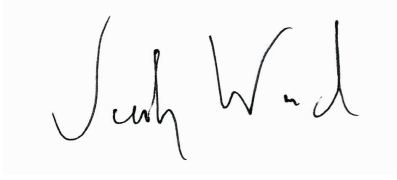
S2

Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHJ0283 - General Preparation										
Duplicate (BHJ0283-DUP1)		**Source: 2410004-06**		Prepared & Analyzed: 10/08/24						
% Solids	89.7		%		90.1			0.467	20	



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S2

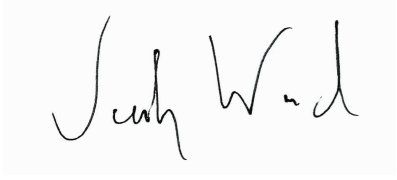
Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHJ0270 - General Preparation										
Blank (BHJ0270-BLK1)				Prepared: 10/07/24 Analyzed: 10/08/24						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BHJ0270-BS1)				Prepared: 10/07/24 Analyzed: 10/08/24						
Specific Conductance (EC)	0.156	0.0100	mmhos/cm	0.150		104	95-105			
Duplicate (BHJ0270-DUP1)	**Source: 2410070-01**			Prepared: 10/07/24 Analyzed: 10/08/24						
Specific Conductance (EC)	0.358	0.0100	mmhos/cm		0.364			1.52	20	

Summit Scientific



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S2

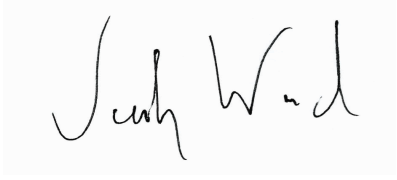
Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHJ0269 - General Preparation										
LCS (BHJ0269-BS1)				Prepared: 10/07/24 Analyzed: 10/08/24						
pH	9.23		pH Units	9.18		101	95-105			
Duplicate (BHJ0269-DUP1)		**Source: 2410064-01**		Prepared: 10/07/24 Analyzed: 10/08/24						
pH	7.16		pH Units		7.14			0.280	20	

Summit Scientific



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Phillips 66 6900 E Layton Ave/ Suite 900 Denver CO, 80237	Project: Four Parmlee (H-6-9) 3/2024 Project Number: [none] Project Manager: Brian Humphrey	**Reported:** 10/10/24 16:23

Notes and Definitions

QR-01	Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference