



Montrose Environmental

Scott Williamson

471 Denver Ave

Loveland

CO

80537

September 04, 2025

Project Name - Chevron - McClellan 03-32 (FL)

Project Number - 37265

Attached are your analytical results for Chevron - McClellan 03-32 (FL) received by Origins Laboratory August 18, 2025. This project is associated with Origins project number E5H0381-01.

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



Montrose Environmental
471 Denver Ave
Loveland CO 80537

Scott Williamson
Project Number: 37265
Project: Chevron - McClellan 03-32 (FL)

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-FLR@3'	E5H0381-01	Soil	August 18, 2025 10:40	08/18/2025 14:15

Origins Laboratory

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Kayla Kenyon, Project Manager

ORIGINS LABORATORY

Montrose Environmental
471 Denver Ave
Loveland CO 80537

Scott Williamson
Project Number: 37265
Project: Chevron - McClellan 03-32 (FL)

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: ESH0381

Client: Montrose/Chevron

Client Project ID: McClellan 03-32(FL)

Checklist Completed by: NB/NB

Shipped Via: HD

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

Date/time completed: 8/18/25

Airbill #: N/A

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

Water

Other:

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

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subsampled analysis in order to insure sample integrity)(pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽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): NB

Date/Time Reviewed: 8/18/25

Origins Laboratory



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 Project: Chevron - McClellan 03-32 (FL)

SEP01-FLR@3'

8/18/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0381-01 (Soil)
 Enthalpy Orange**

Total Metals by 7199

Hexavalent Chromium	ND	0.18	0.34	mg/Kg dry	1	380028	08/22/2025	08/27/2025	ND
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(DRY WEIGHT) 6020B - Metals Table 915

Arsenic	3.17		0.263	mg/kg	10	B5H2045	08/20/2025	09/04/2025	
Barium	ND		74.2	"	"	"	"	"	U
Cadmium	ND		0.344	"	"	"	"	"	U
Copper	ND		41.6	"	"	"	"	"	U
Lead	ND		12.7	"	"	"	"	"	U
Nickel	ND		23.5	"	"	"	"	"	U
Selenium	ND		0.235	"	"	"	"	"	U
Silver	ND		0.724	"	"	"	"	"	U
Zinc	ND		335	"	"	"	"	"	U

(DRY WEIGHT) 8015D - DRO/ORO

Diesel (C10-C28)	ND		28.5	mg/kg dry	1	B5H1834	08/18/2025	08/18/2025	U
Residual Range Organics (C28-C36)	ND		114	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.7 %				50-150	"	"	"	
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8/18/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0381-01 (Soil)									
Origins Laboratory									
(DRY WEIGHT) 8260D - GBTEX+TMBs									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H1843	08/18/2025	08/18/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.228	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	110 %				70-130	"	"	"	
Surrogate: Toluene-d8	102 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %				70-130	"	"	"	
(DRY WEIGHT) 8270E - PAH									
1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H1835	08/18/2025	08/18/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U

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8/18/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0381-01 (Soil)
 Origins Laboratory**

(DRY WEIGHT) 8270E - PAH

Benzo (g,h,i) perylene	ND		0.023	mg/kg dry	1	B5H1835	08/18/2025	08/18/2025	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U
Chrysene	ND		0.023	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U
Fluoranthene	ND		0.023	"	"	"	"	"	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Phenanthrene	ND		0.023	"	"	"	"	"	U
Pyrene	ND		0.023	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.6 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.5 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

(DRY WEIGHT) Boron by DTPA Sorbitol

(DTPA Sorbitol) Boron	0.496		0.114	mg/L dry	1	B5H2132	08/21/2025	08/25/2025	
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Metals by Saturated Paste by EPA 6010

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SEP01-FLR@3'

8/18/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0381-01 (Soil)									
Origins Laboratory									
Metals by Saturated Paste by EPA 6010									
Calcium	1.69		0.499	meq/L	10	[CALC]	08/19/2025	08/25/2025	
Magnesium	1.39		0.823	"	"	"	"	"	
Sodium	0.545		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.25			pH Units	1	B5H1838	08/18/2025	08/20/2025	
SAR by 20B Saturated Paste									
SAR	0.439		0.0100	SAR	1	B5H1836	08/19/2025	08/25/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.288		0.00500	mmhos/cm	1	B5H1838	08/18/2025	08/20/2025	

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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 B5H1836 - Saturated Paste Metals

Blank (B5H1836-BLK1)

Prepared: 08/19/2025 Analyzed: 08/20/2025

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

Duplicate (B5H1836-DUP1)

Source: E5H0373-01

Prepared: 08/19/2025 Analyzed: 08/20/2025

SAR	ND	0.0100	SAR		11.1			200		U
Calcium PPM	439	10.0	mg/L		269			48.1	50	
Magnesium PPM	211	10.0	"		125			51.4	50	QR-DUP
Sodium PPM	1410	10.0	"		879			46.1	50	

Batch B5H2132 - DTPA Sorbitol Preparation

Blank (B5H2132-BLK1)

Prepared: 08/21/2025 Analyzed: 08/25/2025

(DTPA Sorbitol) Boron	ND	0.100	mg/L wet							U
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Duplicate (B5H2132-DUP1)

Source: E5H0381-01

Prepared: 08/21/2025 Analyzed: 08/25/2025

(DTPA Sorbitol) Boron	0.568	0.114	mg/L dry		0.496			13.6	50	
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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B5H1835 - EPA 3530

Blank (B5H1835-BLK1)

Prepared: 08/18/2025 Analyzed: 08/18/2025

1-Methylnaphthalene	ND	0.002	mg/kg wet							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	200		"	200		98.5	60-130			
Surrogate: Pyrene-d10	190		"	200		93.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

LCS (B5H1835-BS1)

Prepared: 08/18/2025 Analyzed: 08/18/2025

1-Methylnaphthalene	0.212	0.002	mg/kg wet	0.200		106	70-130			
2-Methylnaphthalene	0.228	0.002	"	0.200		114	70-130			
Acenaphthene	0.223	0.020	"	0.200		111	70-130			
Anthracene	0.207	0.020	"	0.200		103	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B5H1835 - EPA 3530

LCS (B5H1835-BS1)

Prepared: 08/18/2025 Analyzed: 08/18/2025

Benzo (a) anthracene	0.217	0.005	mg/kg wet	0.200		109	70-130			
Benzo (a) pyrene	0.214	0.020	"	0.200		107	70-130			
Benzo (b) fluoranthene	0.207	0.020	"	0.200		104	70-130			
Benzo (g,h,i) perylene	0.222	0.020	"	0.200		111	70-130			
Benzo (k) fluoranthene	0.211	0.020	"	0.200		105	70-130			
Chrysene	0.220	0.020	"	0.200		110	70-130			
Dibenz (a,h) anthracene	0.235	0.020	"	0.200		117	70-130			
Fluoranthene	0.205	0.020	"	0.200		102	70-130			
Fluorene	0.216	0.020	"	0.200		108	70-130			
Indeno (1,2,3-cd) pyrene	0.237	0.020	"	0.200		119	70-130			
Naphthalene	0.212	0.002	"	0.200		106	70-130			
Phenanthrene	0.215	0.020	"	0.200		108	70-130			
Pyrene	0.208	0.020	"	0.200		104	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.2	60-130			
Surrogate: Anthracene-d10	200		"	200		97.8	60-130			
Surrogate: Pyrene-d10	190		"	200		96.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike (B5H1835-MS1)

Source: E5H0384-01

Prepared: 08/18/2025 Analyzed: 08/18/2025

1-Methylnaphthalene	0.229	0.002	mg/kg dry	0.212	ND	108	70-130			
2-Methylnaphthalene	0.248	0.002	"	0.212	ND	117	70-130			
Acenaphthene	0.240	0.021	"	0.212	ND	113	70-130			
Anthracene	0.227	0.021	"	0.212	ND	107	70-130			
Benzo (a) anthracene	0.228	0.005	"	0.212	0.001	107	70-130			
Benzo (a) pyrene	0.234	0.021	"	0.212	0.001	110	70-130			
Benzo (b) fluoranthene	0.227	0.021	"	0.212	ND	107	70-130			
Benzo (g,h,i) perylene	0.240	0.021	"	0.212	0.0007	113	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B5H1835 - EPA 3530

Matrix Spike (B5H1835-MS1)		Source: E5H0384-01			Prepared: 08/18/2025 Analyzed: 08/18/2025					
Benzo (k) fluoranthene	0.216	0.021	mg/kg dry	0.212	ND	102	70-130			
Chrysene	0.247	0.021	"	0.212	0.0006	116	70-130			
Dibenz (a,h) anthracene	0.257	0.021	"	0.212	0.0005	121	70-130			
Fluoranthene	0.232	0.021	"	0.212	ND	110	70-130			
Fluorene	0.240	0.021	"	0.212	0.001	113	70-130			
Indeno (1,2,3-cd) pyrene	0.259	0.021	"	0.212	ND	122	70-130			
Naphthalene	0.229	0.002	"	0.212	ND	108	70-130			
Phenanthrene	0.235	0.021	"	0.212	ND	111	70-130			
Pyrene	0.225	0.021	"	0.212	ND	106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		97.6	60-130			
Surrogate: Pyrene-d10	190		"	200		96.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B5H1835-MSD1)		Source: E5H0384-01			Prepared: 08/18/2025 Analyzed: 08/18/2025					
1-Methylnaphthalene	0.223	0.002	mg/kg dry	0.212	ND	105	70-130	2.83	20	
2-Methylnaphthalene	0.244	0.002	"	0.212	ND	115	70-130	1.56	20	
Acenaphthene	0.233	0.021	"	0.212	ND	110	70-130	2.72	20	
Anthracene	0.226	0.021	"	0.212	ND	107	70-130	0.578	20	
Benzo (a) anthracene	0.226	0.005	"	0.212	0.001	106	70-130	0.684	20	
Benzo (a) pyrene	0.234	0.021	"	0.212	0.001	110	70-130	0.0229	20	
Benzo (b) fluoranthene	0.233	0.021	"	0.212	ND	110	70-130	2.66	20	
Benzo (g,h,i) perylene	0.242	0.021	"	0.212	0.0007	114	70-130	0.818	20	
Benzo (k) fluoranthene	0.235	0.021	"	0.212	ND	111	70-130	8.17	20	
Chrysene	0.229	0.021	"	0.212	0.0006	108	70-130	7.48	20	
Dibenz (a,h) anthracene	0.261	0.021	"	0.212	0.0005	123	70-130	1.57	20	
Fluoranthene	0.228	0.021	"	0.212	ND	108	70-130	1.73	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
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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 B5H1835 - EPA 3530

Matrix Spike Dup (B5H1835-MSD1)

Source: E5H0384-01

Prepared: 08/18/2025 Analyzed: 08/18/2025

Fluorene	0.236	0.021	mg/kg dry	0.212	0.001	111	70-130	1.95	20	
Indeno (1,2,3-cd) pyrene	0.252	0.021	"	0.212	ND	119	70-130	2.78	20	
Naphthalene	0.223	0.002	"	0.212	ND	105	70-130	2.70	20	
Phenanthrene	0.232	0.021	"	0.212	ND	110	70-130	1.33	20	
Pyrene	0.222	0.021	"	0.212	ND	105	70-130	1.35	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		97.9	60-130			
Surrogate: Pyrene-d10	200		"	200		97.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

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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 B5H1834 - EPA 3550B

Blank (B5H1834-BLK1)

Prepared: 08/18/2025 Analyzed: 08/18/2025

Diesel (C10-C28)	ND	25.0	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	100	"							U
Surrogate: o-Terphenyl	30		"	24.9		121	50-150			

LCS (B5H1834-BS1)

Prepared: 08/18/2025 Analyzed: 08/18/2025

Diesel (C10-C28)	1070	50.0	mg/kg wet	1000		107	70-130			
Residual Range Organics (C28-C36)	1060	200	"	1000		106	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

Matrix Spike (B5H1834-MS1)

Source: E5H0386-01

Prepared: 08/18/2025 Analyzed: 08/18/2025

Diesel (C10-C28)	1150	60.2	mg/kg dry	1200	ND	95.3	70-130			
Residual Range Organics (C28-C36)	1170	241	"	1200	ND	97.7	70-130			
Surrogate: o-Terphenyl	53		"	59.9		88.4	50-150			

Matrix Spike Dup (B5H1834-MSD1)

Source: E5H0386-01

Prepared: 08/18/2025 Analyzed: 08/18/2025

Diesel (C10-C28)	1240	60.2	mg/kg dry	1200	ND	103	70-130	7.57	35	
Residual Range Organics (C28-C36)	1280	241	"	1200	ND	107	70-130	8.77	35	
Surrogate: o-Terphenyl	68		"	59.9		114	50-150			

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Kayla Kenyon, Project Manager



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 Project: Chevron - McClellan 03-32 (FL)

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 B5H2045 - EPA 3050B

Blank (B5H2045-BLK1)

Prepared: 08/20/2025 Analyzed: 09/04/2025

Arsenic	ND	0.290	mg/kg							U
Barium	ND	82.0	"							U
Cadmium	ND	0.380	"							U
Copper	ND	46.0	"							U
Lead	ND	14.0	"							U
Nickel	ND	26.0	"							U
Selenium	ND	0.260	"							U
Silver	ND	0.800	"							U
Zinc	ND	370	"							U

LCS (B5H2045-BS1)

Prepared: 08/20/2025 Analyzed: 09/04/2025

Arsenic	5.07	0.290	mg/kg	5.00		101	80-120			
Barium	510	82.0	"	500		102	80-120			
Cadmium	4.72	0.380	"	5.00		94.5	80-120			
Copper	48.9	46.0	"	50.0		97.7	80-120			
Lead	4.75	14.0	"	5.00		95.1	80-120			U
Nickel	4.89	26.0	"	5.00		97.8	80-120			U
Selenium	4.85	0.260	"	5.00		97.0	80-120			
Silver	4.74	0.800	"	5.00		94.8	80-120			
Zinc	47.7	370	"	50.0		95.4	80-120			U

Matrix Spike (B5H2045-MS1)

Source: E5H0381-01

Prepared: 08/20/2025 Analyzed: 09/04/2025

Arsenic	7.76	0.268	mg/kg	4.62	3.17	99.2	75-125			
Barium	544	75.8	"	462	50.2	107	75-125			
Cadmium	4.79	0.351	"	4.62	0.215	99.0	75-125			
Copper	58.6	42.5	"	46.2	9.66	106	75-125			
Lead	15.1	12.9	"	4.62	11.2	85.2	75-125			

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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 B5H2045 - EPA 3050B

Matrix Spike (B5H2045-MS1)

Source: E5H0381-01

Prepared: 08/20/2025 Analyzed: 09/04/2025

Nickel	9.12	24.0	mg/kg	4.62	4.85	92.5	75-125			U
Selenium	4.83	0.240	"	4.62	0.196	100	75-125			
Silver	4.76	0.739	"	4.62	0.0896	101	75-125			
Zinc	72.0	342	"	46.2	32.3	85.9	75-125			U

Matrix Spike Dup (B5H2045-MSD1)

Source: E5H0381-01

Prepared: 08/20/2025 Analyzed: 09/04/2025

Arsenic	7.16	0.252	mg/kg	4.34	3.17	91.8	75-125	8.03	20	
Barium	530	71.2	"	434	50.2	111	75-125	2.45	20	
Cadmium	4.69	0.330	"	4.34	0.215	103	75-125	2.08	20	
Copper	56.0	40.0	"	43.4	9.66	107	75-125	4.58	20	
Lead	16.2	12.2	"	4.34	11.2	115	75-125	6.86	20	
Nickel	9.43	22.6	"	4.34	4.85	105	75-125	3.30	20	U
Selenium	4.50	0.226	"	4.34	0.196	99.1	75-125	6.97	20	
Silver	4.61	0.695	"	4.34	0.0896	104	75-125	3.26	20	
Zinc	75.4	321	"	43.4	32.3	99.1	75-125	4.59	20	U

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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 B5H1838 - Saturated Paste pH/EC

Blank (B5H1838-BLK1)

Prepared: 08/18/2025 Analyzed: 08/20/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B5H1838-DUP1)		Source: E5H0373-01		Prepared: 08/18/2025 Analyzed: 08/20/2025						
pH	7.98		pH Units		7.81			2.15	25	
Specific Conductance (EC)	3.39	0.00500	mmhos/cm		6.34			60.7	25	QR-DUP

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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 B5H1843 - EPA 5030 (soil)

Blank (B5H1843-BLK1)

Prepared: 08/18/2025 Analyzed: 08/18/2025

1,2,4-Trimethylbenzene	ND	0.002	mg/kg wet							U
1,3,5-Trimethylbenzene	ND	0.002	"							U
Benzene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

LCS (B5H1843-BS1)

Prepared: 08/18/2025 Analyzed: 08/18/2025

1,2,4-Trimethylbenzene	0.102	0.002	mg/kg wet	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.099	0.002	"	0.100		98.6	70-130			
Benzene	0.087	0.002	"	0.100		87.2	70-130			
Ethylbenzene	0.100	0.002	"	0.100		100	70-130			
Toluene	0.087	0.002	"	0.100		86.9	70-130			
o-Xylene	0.097	0.002	"	0.100		97.2	70-130			
m,p-Xylene	0.194	0.004	"	0.200		97.1	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Matrix Spike (B5H1843-MS1)

Source: E5H0381-01

Prepared: 08/18/2025 Analyzed: 08/18/2025

1,2,4-Trimethylbenzene	0.116	0.002	mg/kg dry	0.114	ND	102	70-130			
1,3,5-Trimethylbenzene	0.113	0.002	"	0.114	ND	99.4	70-130			
Benzene	0.103	0.002	"	0.114	ND	90.3	70-130			

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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 B5H1843 - EPA 5030 (soil)

Matrix Spike (B5H1843-MS1)		Source: E5H0381-01			Prepared: 08/18/2025 Analyzed: 08/18/2025					
Ethylbenzene	0.115	0.002	mg/kg dry	0.114	ND	101	70-130			
Toluene	0.100	0.002	"	0.114	ND	87.6	70-130			
o-Xylene	0.111	0.002	"	0.114	ND	97.8	70-130			
m,p-Xylene	0.223	0.005	"	0.228	ND	97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.142		106	70-130			
Surrogate: Toluene-d8	0.14		"	0.142		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.142		105	70-130			

Matrix Spike Dup (B5H1843-MSD1)		Source: E5H0381-01			Prepared: 08/18/2025 Analyzed: 08/18/2025					
1,2,4-Trimethylbenzene	0.111	0.002	mg/kg dry	0.114	ND	97.2	70-130	4.41	20	
1,3,5-Trimethylbenzene	0.108	0.002	"	0.114	ND	95.2	70-130	4.32	20	
Benzene	0.099	0.002	"	0.114	ND	87.3	70-130	3.42	20	
Ethylbenzene	0.110	0.002	"	0.114	ND	96.5	70-130	4.83	20	
Toluene	0.096	0.002	"	0.114	ND	84.1	70-130	4.03	20	
o-Xylene	0.106	0.002	"	0.114	ND	93.0	70-130	5.07	20	
m,p-Xylene	0.215	0.005	"	0.228	ND	94.4	70-130	3.52	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.142		106	70-130			
Surrogate: Toluene-d8	0.14		"	0.142		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.142		105	70-130			

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**Total Metals by 7199 - Quality Control
 Enthalpy Orange**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 380028 - EPA 3060A										
BLANK (QC1287101)										
					Prepared: 08/22/2025 Analyzed: 08/25/2025					
Hexavalent Chromium	ND	0.30	mg/Kg							ND
LCS (QC1287102)										
					Prepared: 08/22/2025 Analyzed: 08/25/2025					
Hexavalent Chromium	39.46	0.6000	mg/Kg	40.00		99	80-120			
Duplicate (QC1287104)										
					Source: 540450-001 Prepared: 08/22/2025 Analyzed: 08/25/2025					
Hexavalent Chromium	ND	0.2978	mg/Kg dry		0				30	ND
Matrix Spike (QC1287105)										
					Source: 540450-001 Prepared: 08/22/2025 Analyzed: 08/25/2025					
Hexavalent Chromium	47.34	0.6026	mg/Kg dry	40.17	0	118	70-130			

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Notes and Definitions

- U Sample is Non-Detect.
 - QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
 - ND Not Detected
 - 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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