



July 17, 2023

Blue Chip Oil, Inc

Ryan Dornbos

155 E Boardwalk, Suite 400

Fort Collins CO 80525

Project Name - Shannon Roberts

Project Number - [none]

Attached are your analytical results for Shannon Roberts received by Origins Laboratory, Inc. June 29, 2023. This project is associated with Origins project number Y306866-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

Blue Chip Oil, Inc
155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N SR	Y306866-01	Soil	June 29, 2023 11:00	06/29/2023 14:26
S SR	Y306866-02	Soil	June 29, 2023 11:00	06/29/2023 14:26
E SR	Y306866-03	Soil	June 29, 2023 11:00	06/29/2023 14:26
W SR	Y306866-04	Soil	June 29, 2023 11:00	06/29/2023 14:26
Floor SR	Y306866-05	Soil	June 29, 2023 11:00	06/29/2023 14:26

Origins Laboratory, Inc.



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Blue Chip Oil, Inc
155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

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

ORIGINS
LABORATORY, INC

Client: Blue Chip Oil, Inc
Address: _____
Telephone Number: 303 915 9074
Email Address: ryan@bluechipoil.com

Project Manager: Jean Dornbos
Project Name: SHANNON ROBERTS
Project Number: _____
Samples Collected By: Jean D.

Relinquished By: Ryan Dornbos Date: 6/24/25 Time: 11:00
Received By: JKS Date: 6/29/25 Time: 14:26

Temp Received: 25 Date Results Needed: _____

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Other	Analysis	Sample Instructions
				HCl	HNO ₃	Other	Groundwater	Soil			
2 SE	6/29/25	11:00	1							135 TM	
5 SE			1							124 TM	
1 SE			1							3 AR	
1 SE			1							ARSENIC	
1 SE			1							PH	
1 SE			1							BENZO ANTHRACENE	

Turnaround Time: ☐ Same Day ☐ 24 Hr ☐ 48 Hr ☒ Standard

Origins Laboratory, Inc.

J. Bynon

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Blue Chip Oil, Inc
155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Boe 2011

Client: Blue Chip Oil

Client Project ID: Shannon Roberts

Checklist Completed by: JH/ACN

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/30/23

Airbill #: N/A

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

Cooler Number/Temperature: 1, 25 °C / _____ °C / _____ °C (Describe)

Thermometer ID: 7004

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"/>		SD
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 subcontracted analytes in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +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): JH Date/Time Reviewed: 7-12-23

Origins Laboratory, Inc.

J. Bynon

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Blue Chip Oil, Inc
155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

N SR

6/29/2023 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306866-01 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G0624	HK	07/06/2023	07/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

109 %	70-130	"	"	"
107 %	70-130	"	"	"
108 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.710	0.499	meq/L	10	[CALC]	CIH	07/01/2023	07/03/2023
Magnesium	ND	0.823	"	"	"	CIH	"	"
Sodium	0.508	0.435	"	"	"	CIH	"	"

SAR by 20B Saturated Paste

SAR	0.713		SAR	1	B3G0103	CIH	"	"
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Origins Laboratory, Inc.



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Blue Chip Oil, Inc
155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

S SR

6/29/2023 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306866-02 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G0624	HK	07/06/2023	07/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

110 %	70-130	"	"	"
106 %	70-130	"	"	"
108 %	70-130	"	"	"

Origins Laboratory, Inc.



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Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

E SR

6/29/2023 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306866-03 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G0624	HK	07/06/2023	07/07/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"		"	
Surrogate: Toluene-d8	108 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"		"	

Origins Laboratory, Inc.



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Blue Chip Oil, Inc
155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

W SR

6/29/2023 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306866-04 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G0624	HK	07/06/2023	07/07/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4

108 % 70-130

"

"

"

Surrogate: Toluene-d8

108 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

107 % 70-130

"

"

"

Table 915 metals by EPA 6020B

Arsenic	2.26	0.0988	mg/kg	10	B3F3029	CIH	06/30/2023	07/05/2023	
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Origins Laboratory, Inc.



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Blue Chip Oil, Inc
155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

Floor SR

6/29/2023 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y306866-05 (Soil)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G0624	HK	07/06/2023	07/07/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

110 %	70-130	"	"	"
106 %	70-130	"	"	"
107 %	70-130	"	"	"

PAH by EPA 8270E

Benzo (a) anthracene	ND	0.010	mg/kg	2	B3F2935	agile	06/29/2023	07/03/2023	U
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Surrogate: Nitrobenzene-d5
Surrogate: 2-Fluorobiphenyl
Surrogate: Terphenyl-d14

104 %	60-130	"	"	"
103 %	60-130	"	"	"
108 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.27		pH Units	1	B3G0106	ACN	07/01/2023	07/02/2023	
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Blue Chip Oil, Inc
155 E Boardwalk, Suite 400
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Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0624 - EPA 5030 (soil)										
Blank (B3G0624-BLK1)					Prepared: 07/06/2023 Analyzed: 07/06/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0624 - EPA 5030 (soil)										
LCS (B3G0624-BS1)					Prepared: 07/06/2023 Analyzed: 07/06/2023					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Benzene	0.0946	0.00200	"	0.100		94.6	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.115	0.00200	"	0.100		115	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0624 - EPA 5030 (soil)										
Matrix Spike (B3G0624-MS1)		Source: Y306859-01			Prepared: 07/06/2023 Analyzed: 07/06/2023					
1,2,4-Trimethylbenzene	0.0912	0.00200	mg/kg	0.100	ND	91.2	70-130			
1,3,5-Trimethylbenzene	0.0937	0.00200	"	0.100	ND	93.7	70-130			
Benzene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
Ethylbenzene	0.0944	0.00200	"	0.100	ND	94.4	70-130			
Naphthalene	0.0829	0.00380	"	0.100	0.000580	82.3	70-130			
Toluene	0.0879	0.00200	"	0.100	ND	87.9	70-130			
o-Xylene	0.0990	0.00200	"	0.100	ND	99.0	70-130			
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Blue Chip Oil, Inc
155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0624 - EPA 5030 (soil)										
Matrix Spike Dup (B3G0624-MSD1)		Source: Y306859-01			Prepared: 07/06/2023 Analyzed: 07/06/2023					
1,2,4-Trimethylbenzene	0.0913	0.00200	mg/kg	0.100	ND	91.3	70-130	0.197	20	
1,3,5-Trimethylbenzene	0.0931	0.00200	"	0.100	ND	93.1	70-130	0.621	20	
Benzene	0.0847	0.00200	"	0.100	ND	84.7	70-130	0.997	20	
Ethylbenzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	1.66	20	
Naphthalene	0.0826	0.00380	"	0.100	0.000580	82.0	70-130	0.338	20	
Toluene	0.0885	0.00200	"	0.100	ND	88.5	70-130	0.635	20	
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130	1.14	20	
m,p-Xylene	0.190	0.00400	"	0.200	ND	95.1	70-130	1.56	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F3029 - EPA 3050B

Blank (B3F3029-BLK1)

Prepared: 06/30/2023 Analyzed: 07/05/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"
Silver	ND	0.000100	"
Zinc	ND	0.100	"

LCS (B3F3029-BS1)

Prepared: 06/30/2023 Analyzed: 07/05/2023

Arsenic	0.0564	0.000100	mg/kg	0.0500	113	80-120
Barium	5.36	0.0100	"	5.00	107	80-120
Cadmium	0.0499	0.000100	"	0.0500	99.7	80-120
Copper	0.574	0.0100	"	0.500	115	80-120
Lead	0.0523	0.0100	"	0.0500	105	80-120
Nickel	0.0523	0.0100	"	0.0500	105	80-120
Selenium	0.0541	0.000100	"	0.0500	108	80-120
Silver	0.0532	0.000100	"	0.0500	106	80-120
Zinc	0.494	0.100	"	0.500	98.8	80-120

Matrix Spike (B3F3029-MS1)

Source: Y306851-03

Prepared: 06/30/2023 Analyzed: 07/05/2023

Origins Laboratory, Inc.



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155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F3029 - EPA 3050B

Matrix Spike (B3F3029-MS1)		Source: Y306851-03			Prepared: 06/30/2023 Analyzed: 07/05/2023					
Arsenic	6.17	0.0885	mg/kg	4.43	1.62	103	75-125			
Barium	495	8.85	"	443	30.7	105	75-125			
Cadmium	4.36	0.0885	"	4.43	0.0382	97.7	75-125			
Copper	46.4	8.85	"	44.3	2.04	100	75-125			
Lead	7.03	8.85	"	4.43	3.19	86.8	75-125			
Nickel	7.31	8.85	"	4.43	3.06	96.2	75-125			
Selenium	4.40	0.0885	"	4.43	0.0391	98.6	75-125			
Silver	4.68	0.0885	"	4.43	0.0116	106	75-125			
Zinc	53.5	88.5	"	44.3	11.6	94.7	75-125			
Matrix Spike Dup (B3F3029-MSD1)		Source: Y306851-03			Prepared: 06/30/2023 Analyzed: 07/05/2023					
Arsenic	6.67	0.0951	mg/kg	4.76	1.62	106	75-125	7.83	20	
Barium	538	9.51	"	476	30.7	107	75-125	8.34	20	
Cadmium	4.65	0.0951	"	4.76	0.0382	96.9	75-125	6.36	20	
Copper	49.6	9.51	"	47.6	2.04	99.9	75-125	6.52	20	
Lead	7.76	9.51	"	4.76	3.19	96.1	75-125	9.84	20	
Nickel	8.07	9.51	"	4.76	3.06	105	75-125	9.78	20	
Selenium	4.75	0.0951	"	4.76	0.0391	99.0	75-125	7.59	20	
Silver	4.98	0.0951	"	4.76	0.0116	104	75-125	6.07	20	
Zinc	57.1	95.1	"	47.6	11.6	95.6	75-125	6.46	20	

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155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F2935 - EPA 3580

Blank (B3F2935-BLK1)

Prepared: 06/29/2023 Analyzed: 07/03/2023

1-Methylnaphthalene	ND	0.002	mg/kg							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: Nitrobenzene-d5	230		ug/kg	200	115	60-130
Surrogate: 2-Fluorobiphenyl	200		"	200	100	60-130
Surrogate: Terphenyl-d14	200		"	200	98.9	60-130

LCS (B3F2935-BS1)

Prepared: 06/29/2023 Analyzed: 07/03/2023

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	104	70-130
2-Methylnaphthalene	0.218	0.002	"	0.200	109	70-130
Acenaphthene	0.212	0.020	"	0.200	106	70-130
Anthracene	0.216	0.020	"	0.200	108	70-130
Benzo (a) anthracene	0.187	0.005	"	0.200	93.3	70-130

Origins Laboratory, Inc.



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Blue Chip Oil, Inc
155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F2935 - EPA 3580

LCS (B3F2935-BS1)

Prepared: 06/29/2023 Analyzed: 07/03/2023

Benzo (a) pyrene	0.190	0.020	mg/kg	0.200		95.2	70-130
Benzo (b) fluoranthene	0.170	0.020	"	0.200		85.1	70-130
Benzo (g,h,i) perylene	0.206	0.020	"	0.200		103	70-130
Benzo (k) fluoranthene	0.196	0.020	"	0.200		98.1	70-130
Chrysene	0.217	0.020	"	0.200		109	70-130
Dibenz (a,h) anthracene	0.195	0.020	"	0.200		97.3	70-130
Fluoranthene	0.233	0.020	"	0.200		116	70-130
Fluorene	0.206	0.020	"	0.200		103	70-130
Indeno (1,2,3-cd) pyrene	0.204	0.020	"	0.200		102	70-130
Naphthalene	0.202	0.002	"	0.200		101	70-130
Phenanthrene	0.207	0.020	"	0.200		104	70-130
Pyrene	0.217	0.020	"	0.200		108	70-130
Surrogate: Nitrobenzene-d5	230		ug/kg	200		115	60-130
Surrogate: 2-Fluorobiphenyl	200		"	200		99.0	60-130
Surrogate: Terphenyl-dl4	200		"	200		99.8	60-130

Matrix Spike (B3F2935-MS1)

Source: Y306823-08

Prepared: 06/29/2023 Analyzed: 07/03/2023

1-Methylnaphthalene	0.219	0.002	mg/kg	0.200	ND	109	70-130
2-Methylnaphthalene	0.221	0.002	"	0.200	ND	110	70-130
Acenaphthene	0.221	0.020	"	0.200	ND	110	70-130
Anthracene	0.223	0.020	"	0.200	ND	112	70-130
Benzo (a) anthracene	0.192	0.005	"	0.200	ND	95.9	70-130
Benzo (a) pyrene	0.202	0.020	"	0.200	0.004	99.0	70-130
Benzo (b) fluoranthene	0.217	0.020	"	0.200	0.004	107	70-130
Benzo (g,h,i) perylene	0.228	0.020	"	0.200	ND	114	70-130
Benzo (k) fluoranthene	0.228	0.020	"	0.200	ND	114	70-130
Chrysene	0.218	0.020	"	0.200	ND	109	70-130

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Blue Chip Oil, Inc
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Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F2935 - EPA 3580

Matrix Spike (B3F2935-MS1)		Source: Y306823-08			Prepared: 06/29/2023 Analyzed: 07/03/2023					
Dibenz (a,h) anthracene	0.211	0.020	mg/kg	0.200	ND	106	70-130			
Fluoranthene	0.228	0.020	"	0.200	ND	114	70-130			
Fluorene	0.203	0.020	"	0.200	ND	101	70-130			
Indeno (1,2,3-cd) pyrene	0.224	0.020	"	0.200	ND	112	70-130			
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130			
Phenanthrene	0.213	0.020	"	0.200	ND	107	70-130			
Pyrene	0.203	0.020	"	0.200	ND	101	70-130			
Surrogate: Nitrobenzene-d5	230		ug/kg	200		113	60-130			
Surrogate: 2-Fluorobiphenyl	200		"	200		102	60-130			
Surrogate: Terphenyl-dl4	190		"	200		93.0	60-130			

Matrix Spike Dup (B3F2935-MSD1)		Source: Y306823-08			Prepared: 06/29/2023 Analyzed: 07/03/2023					
1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	103	70-130	5.55	20	
2-Methylnaphthalene	0.207	0.002	"	0.200	ND	103	70-130	6.67	20	
Acenaphthene	0.210	0.020	"	0.200	ND	105	70-130	4.79	20	
Anthracene	0.216	0.020	"	0.200	ND	108	70-130	3.27	20	
Benzo (a) anthracene	0.191	0.005	"	0.200	ND	95.6	70-130	0.365	20	
Benzo (a) pyrene	0.190	0.020	"	0.200	0.004	93.0	70-130	6.08	20	
Benzo (b) fluoranthene	0.188	0.020	"	0.200	0.004	91.9	70-130	14.6	20	
Benzo (g,h,i) perylene	0.184	0.020	"	0.200	ND	91.9	70-130	21.6	20	QR-02
Benzo (k) fluoranthene	0.197	0.020	"	0.200	ND	98.5	70-130	14.7	20	
Chrysene	0.228	0.020	"	0.200	ND	114	70-130	4.56	20	
Dibenz (a,h) anthracene	0.188	0.020	"	0.200	ND	94.0	70-130	11.7	20	
Fluoranthene	0.244	0.020	"	0.200	ND	122	70-130	6.73	20	
Fluorene	0.219	0.020	"	0.200	ND	110	70-130	7.86	20	
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200	ND	97.5	70-130	13.8	20	
Naphthalene	0.197	0.002	"	0.200	ND	98.6	70-130	3.38	20	

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Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3F2935 - EPA 3580

Matrix Spike Dup (B3F2935-MSD1)		Source: Y306823-08			Prepared: 06/29/2023 Analyzed: 07/03/2023					
Phenanthrene	0.211	0.020	mg/kg	0.200	ND	105	70-130	1.33	20	
Pyrene	0.220	0.020	"	0.200	ND	110	70-130	8.01	20	
Surrogate: Nitrobenzene-d5	220		ug/kg	200		110	60-130			
Surrogate: 2-Fluorobiphenyl	210		"	200		104	60-130			
Surrogate: Terphenyl-dl4	220		"	200		111	60-130			

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Blue Chip Oil, Inc
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Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G0103 - Saturated Paste Metals										
Blank (B3G0103-BLK1)					Prepared: 07/01/2023 Analyzed: 07/03/2023					
SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B3G0103-DUP1)					Source: Y306847-01		Prepared: 07/01/2023 Analyzed: 07/03/2023			
Calcium PPM	124	10.0	mg/L		140			11.5	50	
SAR	0.00		SAR		2.73			200	200	
Magnesium PPM	96.2	10.0	mg/L		94.5			1.79	50	
Sodium PPM	179	10.0	"		170			4.84	50	

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Blue Chip Oil, Inc
155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G0106 - Saturated Paste pH/EC

Duplicate (B3G0106-DUP1)

Source: Y306847-01

Prepared: 07/01/2023 Analyzed: 07/02/2023

pH	8.22		pH Units	8.07		1.84	25
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Blue Chip Oil, Inc
155 E Boardwalk, Suite 400
Fort Collins CO 80525

Ryan Dornbos
Project Number: [none]
Project: Shannon Roberts

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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