



July 24, 2018

Mr. Tim Hager
Blue Chip Oil, Inc.
155 E. Boardwalk Drive, Suite 400
Fort Collins, CO 80525

Via E-Mail: bluechipoil@msn.com

Re: Quarterly Groundwater Monitoring Report
Blue Chip Oil, Inc.
Sloan 1 Facility
NENE, Sec. 25, T6N, R67W
Greeley, CO 80631

Mr. Hager:

This report documents monitoring activities performed by CGRS, Inc. (CGRS), at the Blue Chip Oil Sloan 1 facility located near Windsor, Colorado, as shown in the Site Location Map. Quarterly groundwater monitoring was performed on June 29, 2018, and consisted of obtaining groundwater levels from all accessible monitoring points and collecting groundwater quality samples for laboratory analyses from all accessible monitoring point locations.

Water quality samples were obtained from six groundwater monitoring points (MP-01, MP-02, MP-03, MP-05, MP-06, and MP-07) and submitted to Origins Laboratory in Denver, Colorado for analysis to determine concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX). It should be noted that MP-04 was not sampled on June 29, due to minor damage to the casing and a wasp infestation. The wasps will be eradicated and the well will be repaired and resurveyed prior to the next sampling event. Water quality analytical results and Chain of Custody documentation are included in Attachment A, summarized with historical data in Table 1, and depicted in the Groundwater Sample Location Map.

A review of groundwater analytical data indicates that all BTEX analytes from the groundwater quality samples submitted for analyses were below laboratory method detection limits (MDLs) and Colorado Oil and Gas Conservation Commission (COGCC) maximum allowable concentrations (MACs).

To calculate groundwater elevation, depth to groundwater was measured in monitoring points MP-01, MP-02, MP-03, MP-05, MP-06, MP-07, and MW-A and subtracted from surveyed reference elevations, as shown in Table 1. Review of the most recent quarterly data shows depth to groundwater varied between 8.22 feet below top of well casing (TOC) in monitoring point MP-02 to 10.50 feet below TOC in well MP-07. The inferred groundwater flow direction is to the east at a calculated hydraulic gradient of 0.002 ft/ft as measured between wells MP-02 and MP-07. Inferred water table elevation contours are illustrated in the Groundwater Elevation Map.

CGRS will continue with the quarterly monitoring program, which will consist of obtaining water level measurements and collecting water quality samples from project monitoring points. The next quarterly monitoring event is scheduled for September, 2018.



If you have any questions regarding this report or the project itself, please contact me at dkinnaird@cgrs.com.

Sincerely,

Drezden Kinnaird
CGRS, Inc.
Staff Environmental Scientist III

Enclosures:

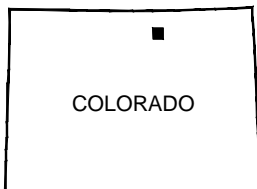
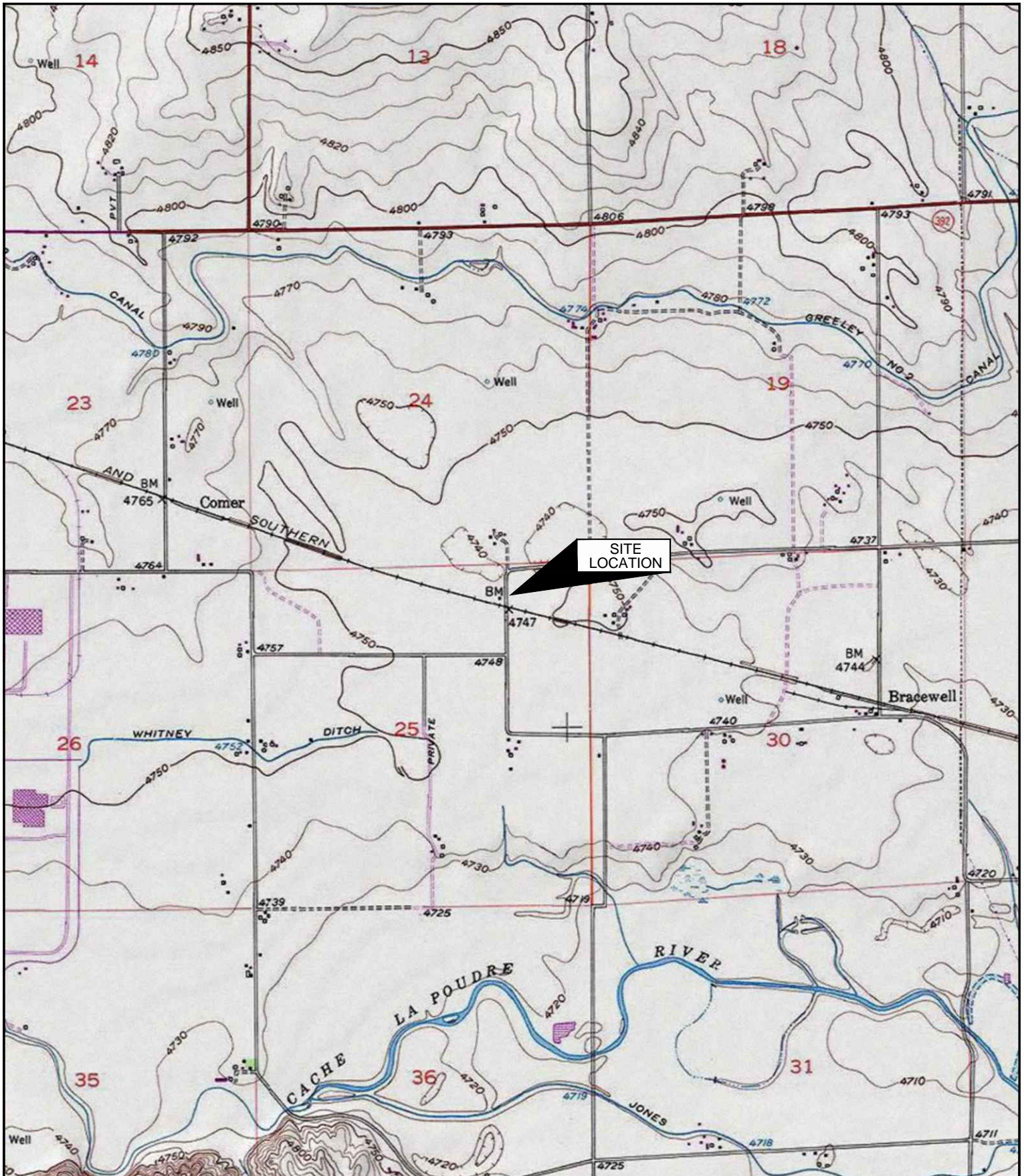
- Site Location Map
- Groundwater Sample Location Map
- Groundwater Elevation Map
- Table 1 – Groundwater Elevation and Analytical Data
- Attachment A – Laboratory Reports and Chain of Custody Documentation

ec: Rick Allison – Colorado Oil & Gas Conservation Commission – rick.allison@state.com.us



Maps

Site Location Map
Groundwater Sample Location Map
Groundwater Elevation Map



COLORADO

■ QUADRANGLE LOCATION



NORTH

0 1000 2000

SCALE IN FEET

SITE LOCATION MAP

BLUE CHIP OIL
SLOAN 1
NENE, SEC. 25, T6N, R67W
GREELEY, COLORADO 80631

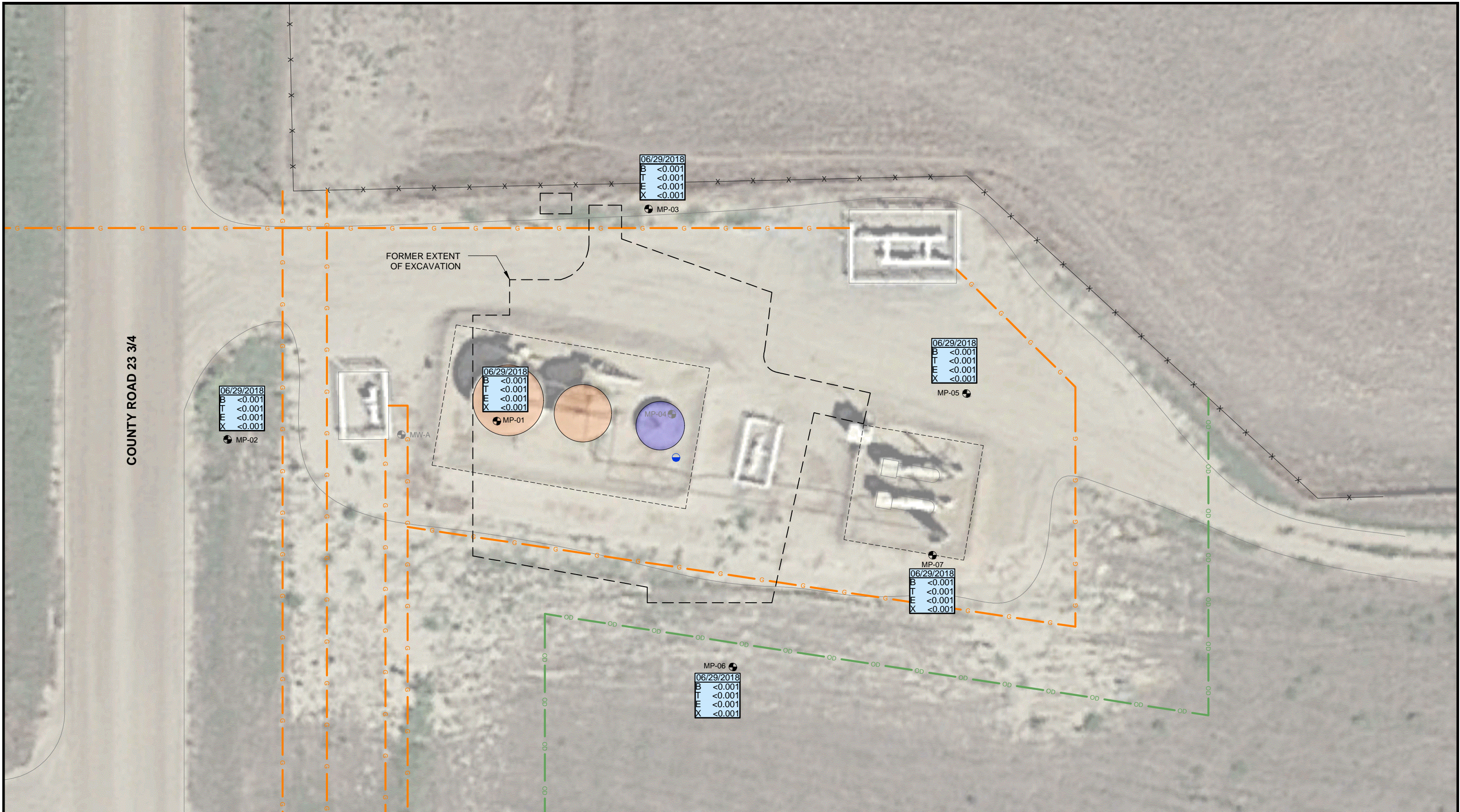
PROJECT:
1-12696-16926aa

DATE:
7/20/2018

DRAFT:
TJQ

REVIEW:





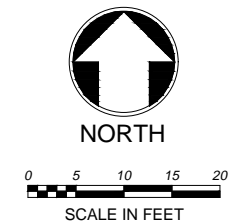
LEGEND

- MP-01 MONITORING POINT
- 12" OIL LINE
- NATURAL GAS LINE

- FORMER SOIL SECONDARY CONTAINMENT BERM
- FENCE LINE
- FORMER SEPARATOR
- REMOVED OIL TANK
- REMOVED PRODUCED WATER TANK

NOTE: **BOLD** VALUES INDICATE CONCENTRATION EXCEEDS THE COGCC MAXIMUM ALLOWABLE CONCENTRATION

SAMPLE DATE	
B	BENZENE (mg/L)
T	TOLUENE (mg/L)
E	ETHYLBENZENE (mg/L)
X	TOTAL XYLENES (mg/L)



GROUNDWATER SAMPLE MAP

BLUE CHIP OIL
SLOAN 1
NENE, SEC. 25, T6N, R67W
GREELEY, COLORADO 80631

PROJECT:
1-12696-16926aa
DATE:
7/20/2018

DRAFT:
TJQ
REVIEW:





Table 1

Groundwater Elevation and Analytical Data

Table 1
Groundwater Elevation and Analytical Data
Groundwater Monitoring Report
Blue Chip Oil, Inc - Sloan 1
NESE, Sec. 25, T6N, R67W
Greeley, Colorado

Sample ID	Sample Date	Reference Elevation (ft)	Depth To Water ** (ft)	Groundwater Elevation (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)
MAC		-	-	-	0.005	1	0.7	10	500	500	1.25 x BG	1.25 x BG	1.25 x BG
MDL		-	-	-	<0.001	<0.001	<0.001	<0.001	10.0	50.0	2	20	14.3
SLOAN 1*	10/18/17		~ 8		2.320	0.181	1.790	10.200	152	600			
MP-01	12/19/17	100.00	9.02	90.98	< 0.001	< 0.001	0.0162	0.168			71.4	679	1410
MP-01	01/17/18	100.00	9.20	90.80									
MP-01	03/12/18	100.00	10.47	89.53	< 0.001	< 0.001	< 0.001	< 0.001					1260
MP-01	06/29/18	100.00	9.26	90.74	< 0.001	< 0.001	< 0.001	< 0.001					
MP-02	12/19/17	99.08	8.00	91.08	< 0.001	< 0.001	< 0.001	< 0.001			58.3	670	1360
MP-02	01/17/18	99.08	8.20	90.88									
MP-02	03/12/18	99.08	8.46	90.62	< 0.001	< 0.001	< 0.001	< 0.001					1220
MP-02	06/29/18	99.08	8.22	90.86	< 0.001	< 0.001	< 0.001	< 0.001					
MP-03	12/19/17	100.57	9.59	90.98	< 0.001	< 0.001	< 0.001	0.00228			108	726	1480
MP-03	01/17/18	100.57	9.73	90.84									
MP-03	03/12/18	100.57	10.01	90.56	< 0.001	< 0.001	< 0.001	< 0.001					1440
MP-03	06/29/18	100.57	9.78	90.79	< 0.001	< 0.001	< 0.001	< 0.001					
MP-04	12/19/17	100.47	9.55	90.92	0.00149	< 0.001	0.0182	0.115			93.4	613	1440
MP-04	01/17/18	100.47	9.75	90.72									
MP-04 ~	03/12/18	100.47	8.96		< 0.001	< 0.001	< 0.001	< 0.001					1240
MP-04***	06/29/18	100.47	-										
MP-05	12/19/17	100.91	10.12	90.79	< 0.001	< 0.001	< 0.001	< 0.001			53.0	650	1360
MP-05	01/17/18	100.91	10.30	90.61									
MP-05	03/12/18	100.91	10.59	90.32	< 0.001	< 0.001	< 0.001	< 0.001					1360
MP-05	06/29/18	100.91	10.35	90.56	< 0.001	< 0.001	< 0.001	< 0.001					
MP-06	12/19/17	101.06	10.21	90.85	< 0.001	< 0.001	< 0.001	< 0.001			122	649	1440
MP-06	01/17/18	101.06	10.39	90.67									
MP-06	03/12/18	101.06	10.68	90.38	< 0.001	< 0.001	< 0.001	< 0.001					1370
MP-06	06/29/18	101.06	10.43	90.63	< 0.001	< 0.001	< 0.001	< 0.001					
MP-07	01/17/18	100.99	10.46	90.53	< 0.001	< 0.001	< 0.001	< 0.001			77.8	559	1370
MP-07	03/12/18	100.99	10.73	90.26	< 0.001	< 0.001	< 0.001	< 0.001					1220
MP-07	06/29/18	100.99	10.50	90.49	< 0.001	< 0.001	< 0.001	< 0.001					

Table 1
Groundwater Elevation and Analytical Data

Groundwater Monitoring Report
Blue Chip Oil, Inc - Sloan 1
NESE, Sec. 25, T6N, R67W
Greeley, Colorado

Sample ID	Sample Date	Reference Elevation (ft)	Depth To Water ** (ft)	Groundwater Elevation (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)
MAC		-	-	-	0.005	1	0.7	10	500	500	1.25 x BG	1.25 x BG	1.25 x BG
MDL		-	-	-	<0.001	<0.001	<0.001	<0.001	10.0	50.0	2	20	14.3
MW-A	12/19/17	99.33	8.30	91.03									
MW-A	01/17/18	99.33	8.51	90.82									
MW-A	03/12/18	99.33	8.79	90.54									
MW-A	06/29/18	99.33	8.52	90.81									

Notes:

A blank data box indicates that the analysis or measurement was not completed during the specified monitoring event

Organic data in bold text indicate concentrations at or in excess of COGCC MACs

*Grab water sample collected from the bottom of the excavation area; not sampled from an established monitoring point

** Monitoring points MP-01 through MP-07 include an estimated two-foot PVC stick-up above the ground surface. Depth to water includes the measured depth below the top of well casing.

*** Not sampled due to wasp nest on MP casing

~ MP-4 damaged 1st Quarter 2018 and needs to be resurveyed.

MP = Monitoring Point

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

MAC = COGCC Maximum Allowable Concentration; as indicated, or 1.25 times background concentration levels

MDL = Laboratory Method Detection Limit

TDS = Total Dissolved Solids



Attachment A

Laboratory Reports and Chain of Custody Documentation



July 06, 2018

CGRS, Inc

Craig Mulica

1301 Academy Court

Fort Collins

CO 80524

Project Name - Sloan 1

Project Number - 16926aa

Attached are your analytical results for Sloan 1 received by Origins Laboratory, Inc. July 02, 2018. This project is associated with Origins project number Y807018-01.

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

CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MP-1	Y807018-01	Water	June 29, 2018 0:00	07/02/2018 09:45
MP-3	Y807018-02	Water	June 29, 2018 0:00	07/02/2018 09:45
MP-4	Y807018-03	Water	June 29, 2018 0:00	07/02/2018 09:45
MP-5	Y807018-04	Water	June 29, 2018 0:00	07/02/2018 09:45
MP-6	Y807018-05	Water	June 29, 2018 0:00	07/02/2018 09:45
MP-7	Y807018-06	Water	June 29, 2018 0:00	07/02/2018 09:45

Origins Laboratory, Inc.



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

CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

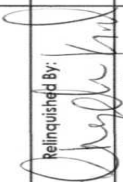
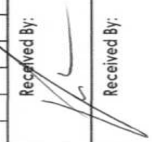
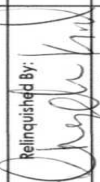
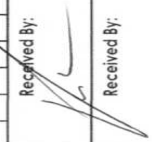
Craig Mulica
Project Number: 16926aa
Project: Sloan 1

Y807018

page ☐ of ☐

Client: CGRS
Address: 1301 Academy Ct, Fort Collins
Telephone Number: 970-631-1876
Email Address: craig@cgrrs.com, ewilson@cgrrs.com

Project Manager: Craig Mulica
Project Name: Sloan 1
Project Number: 16926aa
Samples Collected By: craig@cgrrs.com, ewilson@cgrrs.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other		
MP-1	06/20/18		3	X				X				X	1
MP-2	06/20/18		3	X				X				X	2
MP-3	06/20/18		3	X				X				X	3
MP-4	06/20/18		3	X				X				X	4
MP-5	06/20/18		3	X				X				X	5
MP-6	06/20/18		3	X				X				X	6
MP-7	06/20/18		3	X				X				X	7
													8
													9
													10
Relinquished By: 	Date: 7/2/18	Time: 9:45	Time: 9:45	Received By: 	Date: 7-2-18	Time: 9:45	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input type="checkbox"/>						
Relinquished By: 	Date: 7/2/18	Time: 9:45	Time: 9:45	Received By: 	Date: 7-2-18	Time: 9:45							

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

Origins Laboratory, Inc.

Jefe Pellegrini

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CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y807019

Client: CGRS Inc.

Client Project ID: Sloan 1

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 7/2/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 2.5 °C / °C / °C / °C (Describe)

Thermometer ID: T003

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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Sample times recorded
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 type="checkbox"/>	<input checked="" 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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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) JG

Date/Time Reviewed 7/2/18

Origins Laboratory, Inc.

Jefe Pellegrini

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.

CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

MP-1

6/29/2018 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y807018-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G0305	07/03/2018	07/04/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.1 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.4 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

MP-3

6/29/2018 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807018-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G0305	07/03/2018	07/04/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.6 %	84-121			"	"	"
Surrogate: Toluene-d8	99.5 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	94.5 %	84-114			"	"	"

Origins Laboratory, Inc.



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CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

MP-4

6/29/2018 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc. Y807018-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G0305	07/03/2018	07/04/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.4 %	84-114			"	"	"	

Origins Laboratory, Inc.



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CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

MP-5

6/29/2018 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y807018-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G0305	07/03/2018	07/04/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.2 %	84-114			"	"	"	

Origins Laboratory, Inc.



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CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

MP-6

6/29/2018 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y807018-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G0305	07/03/2018	07/04/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.0 %	84-114			"	"	"	

Origins Laboratory, Inc.



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CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

MP-7

6/29/2018 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y807018-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8G0305	07/03/2018	07/04/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.8 %	84-114			"	"	"	

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CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16926aa
Project: Sloan 1

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B8G0305 - EPA 5030B (Water)

Blank (B8G0305-BLK1)

Prepared: 07/03/2018 Analyzed: 07/03/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5	94.0		84-121			
Surrogate: Toluene-d8	62		"	62.5	98.8		85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	96.2		84-114			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8G0305 - EPA 5030B (Water)										
Blank (B8G0305-BLK2)					Prepared: 07/03/2018 Analyzed: 07/04/2018					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.0	84-114			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8G0305 - EPA 5030B (Water)										
LCS (B8G0305-BS1)					Prepared: 07/03/2018 Analyzed: 07/03/2018					
Benzene	45.8	1.00	ug/L	50.0		91.6	73.3-129			
Toluene	41.6	1.00	"	50.0		83.1	76.2-123			
Ethylbenzene	43.2	1.00	"	50.0		86.5	73.6-130			
m,p-Xylene	85.4	2.00	"	100		85.4	76.1-126			
o-Xylene	45.4	1.00	"	50.0		90.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.4	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.7	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8G0305 - EPA 5030B (Water)

LCS (B8G0305-BS2)

Prepared: 07/03/2018 Analyzed: 07/04/2018

Benzene	44.3	1.00	ug/L	50.0		88.6	73.3-129
Toluene	45.5	1.00	"	50.0		90.9	76.2-123
Ethylbenzene	45.8	1.00	"	50.0		91.7	73.6-130
m,p-Xylene	94.3	2.00	"	100		94.3	76.1-126
o-Xylene	46.1	1.00	"	50.0		92.2	76.6-124
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.2	84-121
Surrogate: Toluene-d8	64		"	62.5		102	85-115
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.1	84-114

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8G0305 - EPA 5030B (Water)

Matrix Spike (B8G0305-MS1)		Source: Y807012-01			Prepared: 07/03/2018 Analyzed: 07/03/2018					
Benzene	57.3	1.00	ug/L	50.0	ND	115	74-130			
Toluene	55.0	1.00	"	50.0	ND	110	73-131			
Ethylbenzene	56.7	1.00	"	50.0	ND	113	76-132			
m,p-Xylene	109	2.00	"	100	ND	109	69-139			
o-Xylene	57.0	1.00	"	50.0	ND	114	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.7	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.9	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	84-114			

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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 B8G0305 - EPA 5030B (Water)

Matrix Spike (B8G0305-MS2)		Source: Y807012-02			Prepared: 07/03/2018 Analyzed: 07/03/2018					
Benzene	58.9	1.00	ug/L	50.0	ND	118	74-130			
Toluene	58.4	1.00	"	50.0	ND	117	73-131			
Ethylbenzene	62.1	1.00	"	50.0	ND	124	76-132			
m,p-Xylene	121	2.00	"	100	ND	121	69-139			
o-Xylene	63.2	1.00	"	50.0	ND	126	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.3	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.8	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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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 B8G0305 - EPA 5030B (Water)

Matrix Spike Dup (B8G0305-MSD1)		Source: Y807012-01			Prepared: 07/03/2018 Analyzed: 07/03/2018					
Benzene	60.0	1.00	ug/L	50.0	ND	120	74-130	4.72	20	
Toluene	57.7	1.00	"	50.0	ND	115	73-131	4.70	20	
Ethylbenzene	61.0	1.00	"	50.0	ND	122	76-132	7.39	20	
m,p-Xylene	118	2.00	"	100	ND	118	69-139	7.89	20	
o-Xylene	61.7	1.00	"	50.0	ND	123	74-131	7.91	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.0	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.2	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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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 B8G0305 - EPA 5030B (Water)

Matrix Spike Dup (B8G0305-MSD2)		Source: Y807012-02			Prepared: 07/03/2018 Analyzed: 07/03/2018					
Benzene	60.0	1.00	ug/L	50.0	ND	120	74-130	1.75	20	
Toluene	59.3	1.00	"	50.0	ND	119	73-131	1.56	20	
Ethylbenzene	63.7	1.00	"	50.0	ND	127	76-132	2.62	20	
m,p-Xylene	123	2.00	"	100	ND	123	69-139	2.35	20	
o-Xylene	64.9	1.00	"	50.0	ND	130	74-131	2.55	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.5	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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