

PDC Energy, Inc.
Second Quarter 2020 Groundwater Monitoring Summary

July 2, 2020

Former Webster Farms 31-11 Tank Battery
NWNE Section 11 T6N R65W
Remediation # 15125

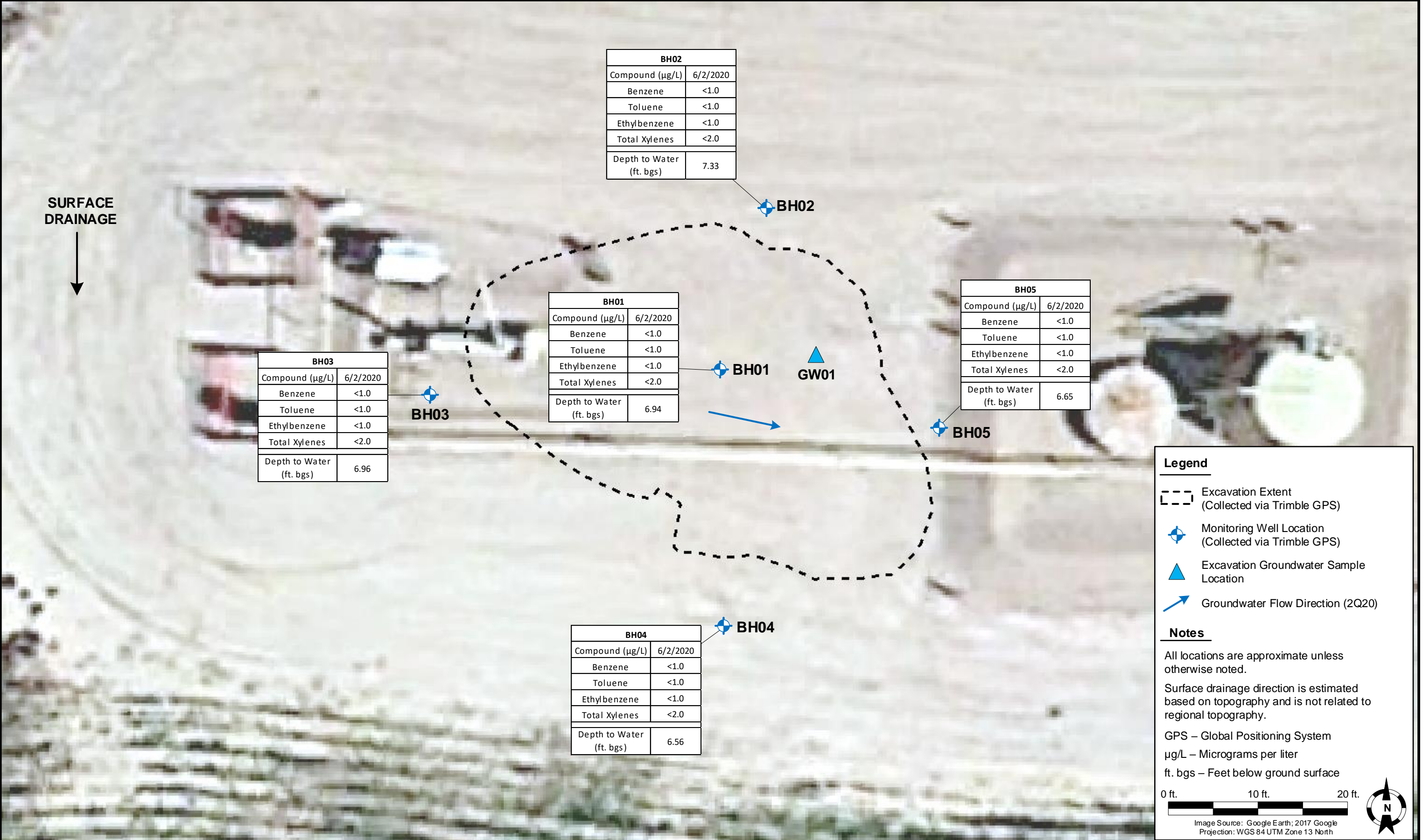
This groundwater monitoring summary has been prepared by Tasman Geosciences, Inc. for the former Webster 31-11 tank battery. On May 28, 2020, five monitoring wells (BH01 – BH05) were installed to confirm the absence of dissolved-phase hydrocarbon impacts within and adjacent to the former excavation extent. Lithologic descriptions and volatile organic compound (VOC) concentrations measured using a photoionization detector (PID) were recorded for each monitoring well. Boring and well completion logs are provided in Attachment A.

On June 2, 2020, groundwater monitoring was conducted at all five monitoring wells (BH01 – BH05). Five groundwater samples were submitted to Summit Scientific Laboratories for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260B.

Second quarter 2020 analytical results indicated that BTEX concentrations were below the applicable COGCC Table 910-1 groundwater standards in all five monitoring well locations. Sample locations and corresponding analytical results are illustrated on Figure 1. Groundwater elevation data is illustrated on Figure 2. Groundwater analytical results are summarized in Table 1. The laboratory analytical report is included in Attachment B.

Based on the analytical results collected during the initial groundwater assessment, monitored natural attenuation (MNA) was selected as the remediation strategy for this site for the second quarter 2020 and will remain the selected remediation strategy through the third quarter 2020.

Third quarter 2020 groundwater sampling will be conducted in September 2020.



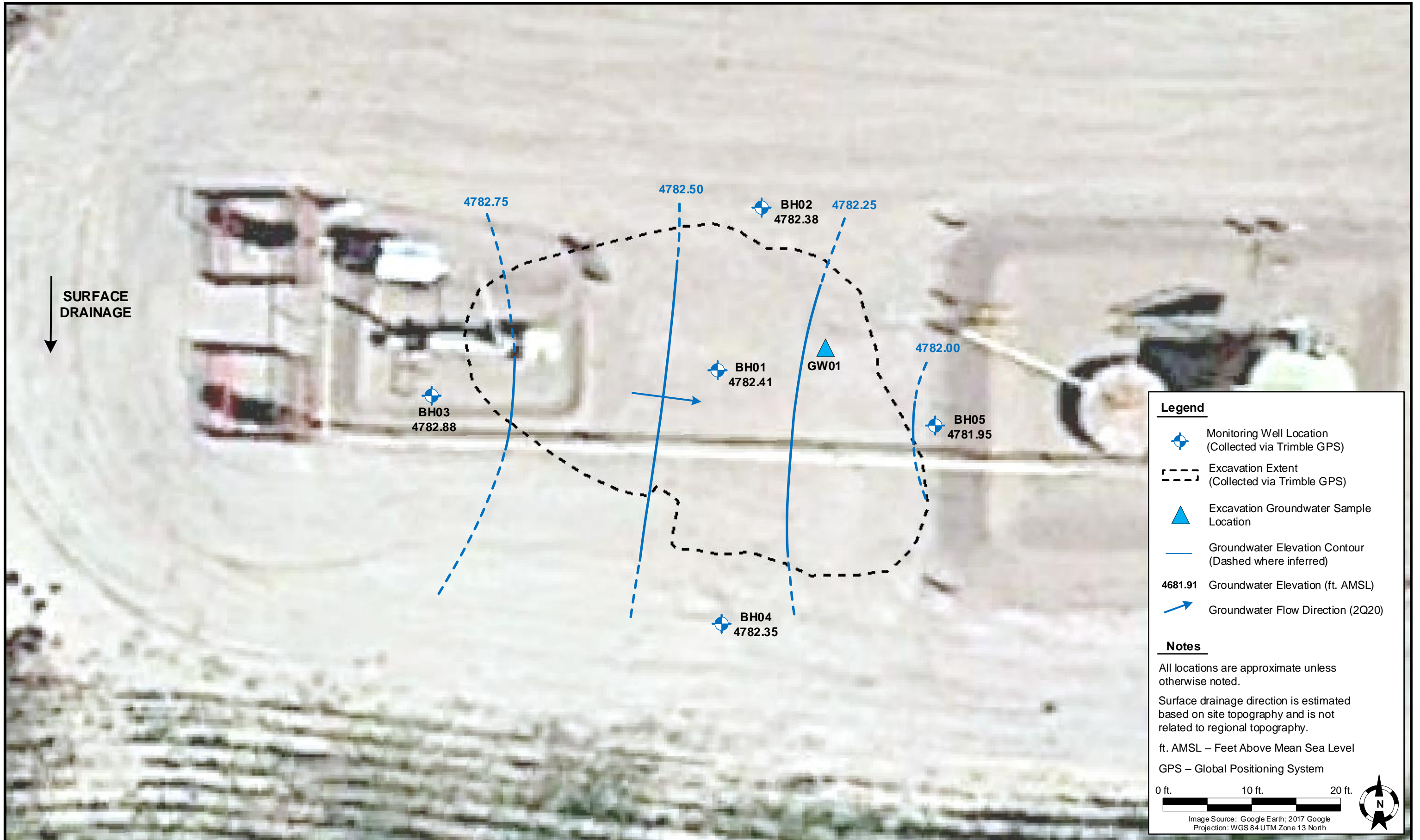


TABLE 1
FORMER WEBSTER FARMS 31-11 TANK BATTERY
GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water ⁽²⁾ (ft.)	Groundwater Elevation (ft. AMSL)
COGCC Table 910-1 Groundwater Standard (µg/L) ⁽¹⁾		5	560	700	1,400		
GW01	4/1/2020	<1.0	<1.0	<1.0	<2.0	~6	NM
BH01	6/2/2020	<1.0	<1.0	<1.0	<2.0	6.94	4782.41
BH02	6/2/2020	<1.0	<1.0	<1.0	<2.0	7.33	4782.38
BH03	6/2/2020	<1.0	<1.0	<1.0	<2.0	6.96	4782.88
BH04	6/2/2020	<1.0	<1.0	<1.0	<2.0	6.56	4782.35
BH05	6/2/2020	<1.0	<1.0	<1.0	<2.0	6.65	4781.95

Notes:

1. Groundwater standards referenced from 2 CCR 404-1, Table 910-1, effective May 1, 2018.
2. Depth to water measurements were measured from ground surface for excavation samples. Monitoring well measurements were collected from top of casing and adjusted using survey data to reflect depth of water from ground surface.

COGCC = Colorado Oil and Gas Conservation Commission

µg/L = Micrograms per liter

(<) = Analytical result is less than the indicated laboratory reporting limit.

ft. = Feet

AMSL = Above Mean Sea Level

NM = Not measured

Attachment A

Borehole Logging Form

BOREHOLE ID: BH01 SITE NAME: Webster Farms 31-11 CLIENT NAME: PDC ENERGY

Date Completed: 5/28/2020 Location: Source

Drilling Company: Tasman Surface Completion: Stick-Up DTW: 7' TD: 13'

Type of Drill: Push Probe Geologist: M. Dahlgren Project Manager: C. Hamlin

Bit Size: 2 3/8" Logging Method: Continuous Macro Liner

Well Const. Material: Diameter: 1" Screen: Sch 40 PVC Slotted 0.10 Riser: Sch 40 PVC Blank

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							Cleared 4' hand auger to 6' lithology not logged
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

V

Macro
liner

25%

0.7

SM

Brown silty sand, moderately sorted, fine to medium grain, moist, no odor
Same as above, saturated

SC

Gray tan silty clay, medium plasticity
saturated, no odor

SC

Same as above, brown

75%

1.9

Same as above, moist

CH

Gray clay high plasticity, dry, no odor

0.7

Borehole Logging Form

BOREHOLE ID: BH02 SITE NAME: Webster Farms 31-11 CLIENT NAME: PDC ENERGY

Date Completed: 5/28/2020 Location: N POC

Drilling Company: Tasman Surface Completion: Stick-Up DTW: 7' TD: 13'

Type of Drill: Push Probe Geologist: M. Dahlgren Project Manager: C. Hamlin

Bit Size: 2 3/8" Logging Method: Continuous Macro Liner

Well Const. Material: Diameter: 1" Screen: Sch 40 PVC Slotted 0.10 Riser: Sch 40 PVC Blank

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							Cleared w/ hand auger to 6'
2							Lithology not logged
3							
4							
5							
6							
7		Macro					Brown silty sand, moderately sorted, fine to medium grain, moist, no odor
8		liner	90%	2.6		SM	Same as above, Saturated
9							
10							
11			90%	1.7			Brown silty clay, medium phst. city
12						CL	Saturated, no odor
13				1.4			Same as above, Gray, moist
14							Same as above, dry
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

Borehole Logging Form

BOREHOLE ID: B1703		SITE NAME: Webster Farms 31-11		CLIENT NAME: PDC ENERGY	
Date Completed: 5/28/2020		Location: W POC			
Drilling Company: Tasman		Surface Completion: Stick-Up		DTW: 7'	TD: 13'
Type of Drill: Push Probe		Geologist: M. Dahlgren		Project Manager: C. Hamlin	
Bit Size: 2 3/8"		Logging Method: Continuous Macro Liner			
Well Const. Material: Diameter: 1" Screen: Sch 40 PVC Slotted 0.10 Riser: Sch 40 PVC Blank					

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							Cleared w/ hand auger to 6' lithology not logged.
2							
3							
4							
5							
6							
7		Macro	90%	0.6		SM	Tan Silty Sand, well sorted, fine grain, dry no odor
8		liner					Same as above, saturated
9				0.8		CL	Tan Silty Clay, medium plasticity Saturated, no odor
10				0.5			Same as above, moist
11			100%	1.3		CL	Same as above, black, saturated, no odor
12							Same as above, dry, gray
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

Borehole Logging Form

BOREHOLE ID: B1104 SITE NAME: Webster Farms 31-11 CLIENT NAME: PDC ENERGY

Date Completed: 5/28/2020 Location: S POC

Drilling Company: Tasman Surface Completion: Stick-Up DTW: 7' TD: 13

Type of Drill: Push Probe Geologist: M. Dahlgren Project Manager: C. Hamlin

Bit Size: 2 3/8" Logging Method: Continuous Macro Liner

Well Const. Material: Diameter: 1" Screen: Sch 40 PVC Slotted 0.10 Riser: Sch 40 PVC Blank

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							Cleared w/ hand auger to 6'
2							Lithology not logged
3							
4							
5							
6							
7		Macro	75%	0.6		SM	Gray tan Silty Sand, well sorted, fine grain, dry, no odor
8		liner					Same as above, Saturated
9				0.1		CL	Gray, black Silty Clay, medium Plasticity, moist, no odor
10							
11			90%	0.6		CL	Tan clay, medium Plasticity, moist, no odor
12							Same as above, dry
13							
14	X						
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

Borehole Logging Form

BOREHOLE ID: **BH65** SITE NAME: **Webster Farms 31-11** CLIENT NAME: **PDC ENERGY**

Date Completed: **5/28/2020** Location: **E POC**

Drilling Company: **Tasman** Surface Completion: **Stick-Up** DTW: **7'** TD: **15'**

Type of Drill: **Push Probe** Geologist: **M. Dahlgren** Project Manager: **C. Hamlin**

Bit Size: **2 3/8"** Logging Method: **Continuous Macro Liner**

Well Const. Material: Diameter: **1"** Screen: **Sch 40 PVC Slotted 0.10** Riser: **Sch 40 PVC Blank**

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							Cleared w/ hand auger to 6'
2							Lithology not logged
3							
4							
5							
6							
7		MACRO					Tan Silty Sand, well sorted, fine grain
8		liner	20%	23		SM	moist, no odor
9							Same as above, Saturated
10							
11							Gray Tan Clay, high Plasticity
12							moist, no odor
13			20%	0.2		CH	
14							Same as above, dry
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

Attachment B

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 09, 2020

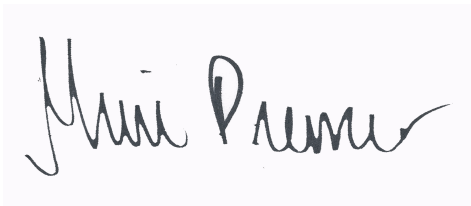
Mark Longhurst
PDC Energy
1775 Sherman St. STE. 3000
Denver, CO 80203

RE: Webster Farms 31-11

Work Order #2006017

Enclosed are the results of analyses for samples received by Summit Scientific on 06/02/20 17:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury
President



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Webster Farms 31-11

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/09/20 11:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	2006017-01	Water	06/02/20 12:50	06/02/20 17:20
BH02	2006017-02	Water	06/02/20 12:35	06/02/20 17:20
BH03	2006017-03	Water	06/02/20 12:30	06/02/20 17:20
BH04	2006017-04	Water	06/02/20 12:45	06/02/20 17:20
BH05	2006017-05	Water	06/02/20 12:40	06/02/20 17:20

Summit Scientific

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.


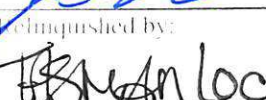
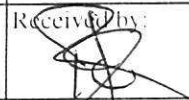
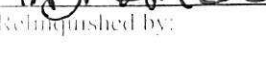
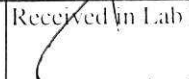

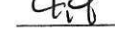
2006017

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: PDC/Tasman
Address: 6855 W 119th Ave
City/State/Zip: Broomfield CO 80020
Phone: 303-487-1228 Fax: -
Sampler Name: J Marcus

Project Manager: Mark Longhurst
E-Mail: mark.longhurst@PDCF.com
Project Name: Webster Farms 31-11
Project Number: n/a

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:												Special Instructions					
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX																
BH01	6/2/20	1250	3	✓				✓				✓																
BH02	6/2/20	1235	3	✓				✓				✓																
BH03	6/2/20	1230	3	✓				✓				✓																
BH04	6/2/20	1245	3	✓				✓				✓																
BH05	6/2/20	1240	3	✓				✓				✓																
Relinquished by: 				Date/Time: 6/2/20 1554				Received by: Tasman Lock Box				Date/Time: 6/2/20 1554				Turn Around Time (Check)												Notes:
Relinquished by: 				Date/Time: 06/02/2020 1720				Received by: 				Date/Time: 06/02/2020 1720				Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>												
Relinquished by: 				Date/Time: 06/02/2020 1720				Received in Lab by: 				Date/Time: 06/02/2020 1720				Sample Integrity:  Temperature Upon Receipt:  Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												

2006017

Sample Receipt Checklist

S2 Work Order _____

Client: POC / TabmanClient Project ID: Webster Farms 31-11Shipped Via: ☐ H.D./P.U./FedEx/UPS/USPS/Other _____

Airbill #: _____

Matrix (check all that apply):

☐ Air☐ Soil/Solid☒ Water☐ Other: _____

(Describe)

Temp (°C)

4.7

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace 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 (excluding cooling) ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCL
Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name or Initials

Signature of Custodian

Date/Time

06/02/2020



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Webster Farms 31-11
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/09/20 11:20

BH01
2006017-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/20 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2006048	06/03/20	06/06/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **06/02/20 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		95.3 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		96.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %		21-167		"	"	"	"	

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PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Webster Farms 31-11
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/09/20 11:20

BH02
2006017-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/20 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	2006048	06/03/20	06/06/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/02/20 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.9 %	21-167		"	"	"	"	

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PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Webster Farms 31-11
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/09/20 11:20

BH03
2006017-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/20 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	2006048	06/03/20	06/06/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/02/20 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		93.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	21-167		"	"	"	"	

Summit Scientific

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PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Webster Farms 31-11
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/09/20 11:20

BH04
2006017-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/20 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	2006048	06/03/20	06/06/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/02/20 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		94.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	21-167		"	"	"	"	

Summit Scientific

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PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Webster Farms 31-11
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/09/20 11:20

BH05
2006017-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/20 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	2006048	06/03/20	06/06/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **06/02/20 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	21-167		"	"	"	"	

Summit Scientific

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Webster Farms 31-11

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/09/20 11:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2006048 - EPA 5030 Water MS

Blank (2006048-BLK1)

Prepared: 06/03/20 Analyzed: 06/06/20

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		101	23-173			
Surrogate: Toluene-d8	12.5		"	13.3		93.5	20-170			
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		90.4	21-167			

LCS (2006048-BS1)

Prepared: 06/03/20 Analyzed: 06/06/20

Benzene	22.4	1.0	ug/l	33.3		67.3	51-132			
Toluene	27.4	1.0	"	33.3		82.2	51-138			
Ethylbenzene	29.5	1.0	"	33.3		88.4	58-146			
m,p-Xylene	56.9	2.0	"	66.7		85.4	57-144			
o-Xylene	26.4	1.0	"	33.3		79.2	53-146			
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3		100	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		95.9	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.1	21-167			

Matrix Spike (2006048-MS1)

Source: 2006017-01

Prepared: 06/03/20 Analyzed: 06/06/20

Benzene	23.6	1.0	ug/l	33.3	ND	70.8	34-141			
Toluene	28.4	1.0	"	33.3	ND	85.1	27-151			
Ethylbenzene	29.7	1.0	"	33.3	ND	89.1	29-160			
m,p-Xylene	56.6	2.0	"	66.7	ND	84.9	20-166			
o-Xylene	25.8	1.0	"	33.3	ND	77.4	33-159			
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		103	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.1	21-167			

Summit Scientific

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Webster Farms 31-11

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/09/20 11:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2006048 - EPA 5030 Water MS

Matrix Spike Dup (2006048-MSD1)	Source: 2006017-01			Prepared: 06/03/20 Analyzed: 06/06/20						
Benzene	24.7	1.0	ug/l	33.3	ND	74.1	34-141	4.47	30	
Toluene	29.3	1.0	"	33.3	ND	88.0	27-151	3.36	30	
Ethylbenzene	32.4	1.0	"	33.3	ND	97.2	29-160	8.69	30	
m,p-Xylene	62.0	2.0	"	66.7	ND	93.1	20-166	9.19	30	
o-Xylene	28.7	1.0	"	33.3	ND	86.0	33-159	10.5	30	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	14.6		"	13.3		110	21-167			

Summit Scientific

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1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Webster Farms 31-11

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/09/20 11:20

Notes and Definitions

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