

FREMONT ENVIRONMENTAL INC.

August 10, 2020

Mr. Jason Davidson
Great Western Operating Company, LLC
1801 Broadway, Suite 500
Denver, CO 80202

Subject: **Groundwater Data and Remediation Report**
Kraus Albin 22-20 Former Tank Battery
SENW Sec 20, T5S, R63W
Arapahoe County, Colorado
Fremont Project No. C019-071
Facility #320793, Remediation #11774

Dear Mr. Davidson:

Enclosed please find a copy of the above referenced Groundwater Data and Remediation Report for the former Kraus Albin 22-20 site in Arapahoe County, Colorado. The enclosed data describes groundwater quality at the site during the recent quarterly sampling event.

A solar powered soil vapor extraction (SVE) bubbler system has been installed on monitoring well MW-1 to evaporate free phase condensate in that well. This remediation system was activated in September 2019. As shown on Table 2, approximately 0.5 tons of hydrocarbons have been removed by the SVE system.

Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.



Paul V. Henehan, P.E.
Senior Consultant

Enclosure

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA AND CHEMISTRY DATA
GREAT WESTERN OPERATING COMPANY, LLC
KRAUS-ALBIN 20-22, ARAPAHOE COUNTY, COLORADO
FREMONT PROJECT NO. C019-071

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	04/09/18	NS	NS	NS	NS	100.00	25.08	74.92	0.18
	07/30/18	NS	NS	NS	NS		25.28	74.72	0.3
	10/18/18	NS	NS	NS	NS		22.85	77.15	0.28
	01/23/19	NS	NS	NS	NS		23.06	76.94	0.29
	04/17/19	NS	NS	NS	NS		22.91	77.09	0.32
	07/23/19	NS	NS	NS	NS		22.64	77.36	0.34
	10/17/19	NS	NS	NS	NS		23.20	76.80	0.97
	01/20/20	NS	NS	NS	NS		24.30	75.70	2.80
	04/12/20	NS	NS	NS	NS	24.79	75.21	1.14	
	07/10/20	NS	NS	NS	NS	96.65	25.00	71.65	1.65
MW-2	04/09/18	289	157.0	82.8	393.0	98.35	22.65	75.70	NP
	07/30/18	271	10.2	5.7	60.6		22.88	75.47	NP
	10/18/18	371	25.8	39.6	165.0		21.25	77.10	NP
	01/23/19	200	<1.0	<1.0	<1.0		21.46	76.89	NP
	04/17/19	127	<1.0	<1.0	<1.0		20.27	78.08	NP
	07/23/19	107	2.1	9.9	14.4		20.99	77.36	NP
	10/17/19	137	<1.0	<1.0	25.4		21.51	76.84	NP
	01/20/20	84.7	<1.0	<1.0	9.34		21.88	76.47	NP
	04/12/20	56.4	<1.0	2.8	5.49		21.85	76.50	NP
		07/10/20	<1.0	<1.0	<1.0	<1.0	95.99	22.01	73.98
MW-3	04/09/18	<1.0	<1.0	<1.0	<1.0	96.63	21.25	75.38	NP
	07/30/18	<1.0	<1.0	<1.0	<1.0		21.51	75.12	NP
	10/18/18	<1.0	<1.0	<1.0	<1.0		19.71	76.92	NP
	01/23/19	<1.0	<1.0	<1.0	<1.0		19.92	76.71	NP

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-3	04/17/19	<1.0	<1.0	<1.0	<1.0		19.63	77.00	NP
	07/23/19	<1.0	<1.0	<1.0	<1.0		19.37	77.26	NP
	10/17/19	<1.0	<1.0	<1.0	<1.0		19.99	76.64	NP
	01/20/20	<1.0	<1.0	<1.0	<1.0		20.30	76.33	NP
	04/12/20	<1.0	<1.0	<1.0	<1.0		20.30	76.33	NP
	07/10/20	<1.0	<1.0	<1.0	<1.0	94.30	20.49	73.81	NP
MW-4	04/17/19	<1.0	<1.0	<1.0	<1.0	95.45	18.61	76.84	NP
	07/23/19	<1.0	<1.0	<1.0	<1.0		18.34	77.11	NP
	10/17/19	<1.0	<1.0	<1.0	<1.0		19.19	76.26	NP
	01/20/20	<1.0	<1.0	<1.0	<1.0		19.47	75.98	NP
	04/12/20	<1.0	<1.0	<1.0	<1.0		19.42	76.03	NP
	07/10/20	<1.0	<1.0	<1.0	<1.0	93.53	19.65	73.88	NP
MW-5	04/17/19	13.5	<1.0	<1.0	<1.0	101.98	25.25	76.73	NP
	07/23/19	5.07	<1.0	<1.0	<1.0		25.02	76.96	NP
	10/17/19	1.85	<1.0	<1.0	<1.0		25.31	76.67	NP
	01/20/20	1.42	<1.0	<1.0	<1.0		25.65	76.33	NP
	04/12/20	<1.0	<1.0	<1.0	<1.0		25.67	76.31	NP
	07/10/20	<1.0	<1.0	<1.0	<1.0	100.00	25.82	74.18	NP
Table 910-1 Limits		5	560	700	1,400				

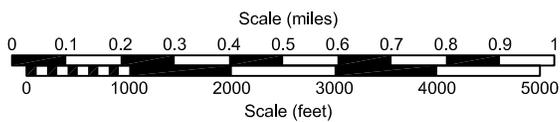
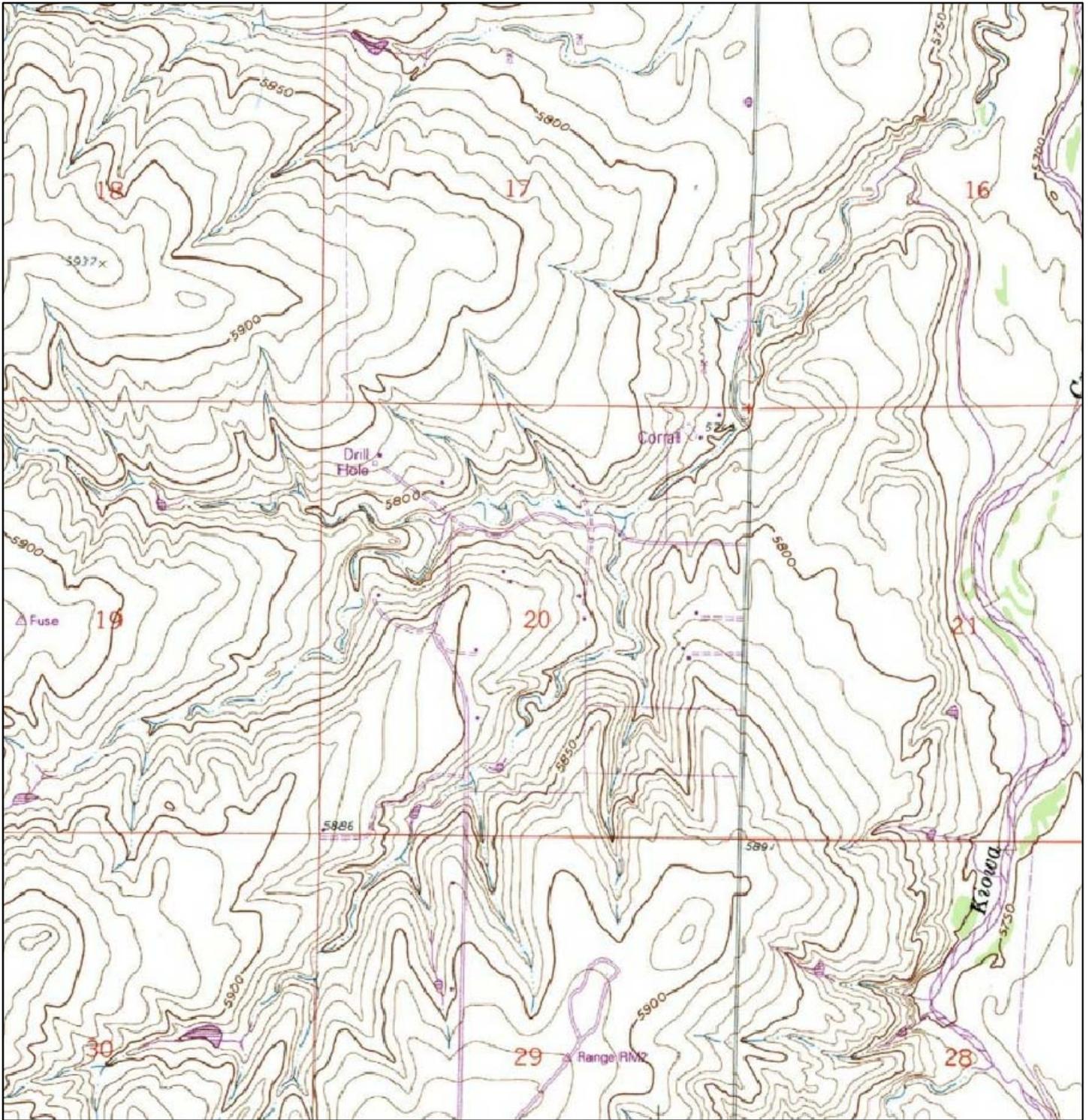
Bold face values exceed the COGCC limits

NP - No Free Product

TABLE 2
SUMMARY OF SVE DISCHARGE
GREAT WESTERN OPERATING COMPANY, LLC
KRAUS-ALBIN 22-20, ARAPAHOE COUNTY, COLORADO
FREMONT PROJECT NO. C019-071

Date	Air Discharge (CFM)	Instantaneous Hydrocarbon Removal Rate		Operational Hours	Total Pounds Removed For Period	Cumulative Pounds Removed	Cumulative Tons Removed	Benzene Lbs/Hr	Total Benzene For Period Lbs	Cumulative Pounds Benzene Removed
		(Lbs/Hr)	(Lbs/Day)							
09/17/19	8	0.43	10.26	281	120.17	120.17	0.06	0.0014	0.40	0.40
04/07/20	8	0.13	3.21	4,800	641.66	761.83	0.38	0.0003	1.64	2.03
07/17/20	8	0.10	2.32	2,400	231.83	993.66	0.50	0.0073	17.58	19.62

System started on 9/5/19



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

GREAT WESTERN OPERATING COMPANY
Kraus-Albin 20-22
 39.6026°, -104.4677°
 Arapahoe County, Colorado

Project No. C019-071	Prepared by	Drawn by TA
Date 8/7/20	Reviewed by PH	Filename 19071T





LEGEND

- ⊕ MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- FENCE LINE
- ▤ CONTAINMENT BERM

**Figure 2
SITE MAP**

GREAT WESTERN OPERATING COMPANY
Kraus-Albin 20-22
 39.6026°, -104.4677°
 Arapahoe County, Colorado

Project No. C019-071	Prepared by	Drawn by TA
Date 8/7/20	Reviewed by PH	Filename 19071Q





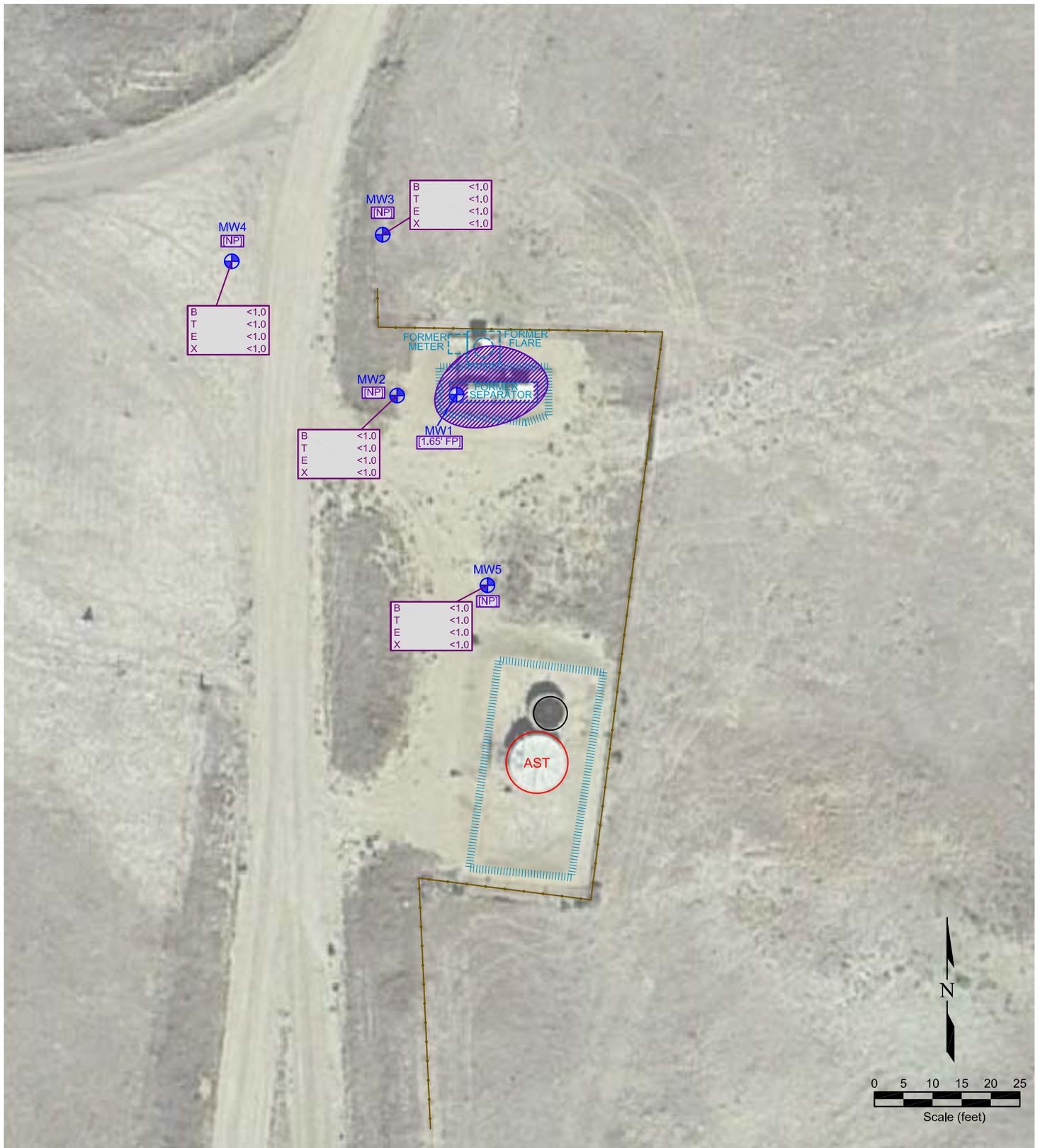
LEGEND

- ⊕ MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- FENCE LINE
- CONTAINMENT BERM
- * NOT USED FOR CONTOURING
- (71.65) GROUND WATER ELEVATION (ft above arbitrary datum)
- 70.00 WATER TABLE CONTOUR
- ← GROUND WATER FLOW DIRECTION

Figure 3
GROUNDWATER CONTOUR MAP
 July 10, 2020
GREAT WESTERN OPERATING COMPANY
Kraus-Albin 20-22
 39.6026°, -104.4677°
 Arapahoe County, Colorado

Project No. C019-071	Prepared by	Drawn by TA
Date 8/10/20	Reviewed by PH	Filename 19071Q





LEGEND

- MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FENCE LINE
- CONTAINMENT BERM
- | | |
|---|------|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |

 BENZENE (ug/L)
- | | |
|---|------|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |

 TOLUENE (ug/L)
- | | |
|---|------|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |

 ETHYLBENZENE (ug/L)
- | | |
|---|------|
| B | <1.0 |
| T | <1.0 |
| E | <1.0 |
| X | <1.0 |

 TOTAL XYLENES (ug/L)
- NO FREE PRODUCT
- FREE PRODUCT THICKNESS (ft)
- EXTENT OF FREE PRODUCT

Figure 4
GROUNDWATER CHEMISTRY WITH THICKNESS OF FREE PRODUCT MAP
 July 10, 2020
GREAT WESTERN OPERATING COMPANY
Kraus-Albin 20-22
 39.6026°, -104.4677°
 Arapahoe County, Colorado

Project No. C019-071	Prepared by	Drawn by TA	
Date 8/7/20	Reviewed by PH	Filename 19071Q	



LEGEND

- ⊕ MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- FENCE LINE
- CONTAINMENT BERM
- REMEDIATION SYSTEM TRENCH

Figure 5
REMEDATION SYSTEM LAYOUT

GREAT WESTERN OPERATING COMPANY
Kraus-Albin 20-22
 39.6026°, -104.4677°
 Arapahoe County, Colorado

Project No. C019-071	Prepared by	Drawn by TA
Date 8/10/20	Reviewed by PH	Filename 19071Q



July 17, 2020

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Kraus - Albin

Project Number - C019-071

Attached are your analytical results for Kraus - Albin received by Origins Laboratory, Inc. July 10, 2020. This project is associated with Origins project number Y007149-01.

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



Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C019-071
Project: Kraus - Albin

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW 2	Y007149-01	Water	July 10, 2020 9:45	07/10/2020 12:36
MW 3	Y007149-02	Water	July 10, 2020 9:15	07/10/2020 12:36
MW 4	Y007149-03	Water	July 10, 2020 9:00	07/10/2020 12:36
MW5	Y007149-04	Water	July 10, 2020 9:30	07/10/2020 12:36

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C019-071
 Project: Kraus - Albin

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y007149

Client: Fremont

Client Project ID: Kraus-Albin

Checklist Completed by: KPK

Shipped Via: N/A
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 07.13.2020

Airbill #: HD

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

Cooler Number/Temperature: 01 / 3.7 °C / °C / °C (Describe) °C

Thermometer ID: 1003

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 type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) 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 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 type="checkbox"/>	<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 JM (Project Manager)

7-14-20
 Date/Time Reviewed

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C019-071
 Project: Kraus - Albin

MW 2

7/10/2020 9:45:00AM

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

Origins Laboratory, Inc.
Y007149-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0G1302	ZZZ	07/13/2020	07/15/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"	"	

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C019-071
 Project: Kraus - Albin

MW 3

7/10/2020 9:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y007149-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0G1302	ZZZ	07/13/2020	07/15/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	86.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	88.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C019-071
 Project: Kraus - Albin

MW 4

7/10/2020 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y007149-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0G1302	ZZZ	07/13/2020	07/15/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U
Surrogate: 1,2-Dichloroethane-d4	85.9 %	70-130			"	"		"	
Surrogate: Toluene-d8	88.3 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"		"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C019-071
 Project: Kraus - Albin

MW5

7/10/2020 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y007149-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0G1302	ZZZ	07/13/2020	07/15/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C019-071
 Project: Kraus - Albin

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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Batch B0G1302 - EPA 5030B (Water)

Blank (B0G1302-BLK1)

Prepared: 07/13/2020 Analyzed: 07/15/2020

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	57		"	62.5	90.5		70-130			
Surrogate: Toluene-d8	59		"	62.5	94.0		70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		70-130			

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C019-071
 Project: Kraus - Albin

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 B0G1302 - EPA 5030B (Water)

LCS (B0G1302-BS1)

Prepared: 07/13/2020 Analyzed: 07/15/2020

Benzene	45.1	1.00	ug/L	50.0		90.2	70-130			
Toluene	49.3	1.00	"	50.0		98.7	70-130			
Ethylbenzene	49.5	1.00	"	50.0		99.0	70-130			
m,p-Xylene	104	2.00	"	100		104	70-130			
o-Xylene	53.2	1.00	"	50.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.8	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C019-071
 Project: Kraus - Albin

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 B0G1302 - EPA 5030B (Water)

Matrix Spike (B0G1302-MS1)	Source: Y007158-01			Prepared: 07/13/2020 Analyzed: 07/15/2020						
Benzene	45.0	1.00	ug/L	50.0	ND	89.9	70-130			
Toluene	50.6	1.00	"	50.0	ND	101	70-130			
Ethylbenzene	50.5	1.00	"	50.0	ND	101	70-130			
m,p-Xylene	108	2.00	"	100	0.190	108	70-130			
o-Xylene	53.1	1.00	"	50.0	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.9	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.5	70-130			

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C019-071
 Project: Kraus - Albin

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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Batch B0G1302 - EPA 5030B (Water)

Matrix Spike Dup (B0G1302-MSD1)	Source: Y007158-01			Prepared: 07/13/2020 Analyzed: 07/15/2020						
Benzene	48.5	1.00	ug/L	50.0	ND	97.0	70-130	7.53	20	
Toluene	52.5	1.00	"	50.0	ND	105	70-130	3.53	20	
Ethylbenzene	52.5	1.00	"	50.0	ND	105	70-130	3.90	20	
m,p-Xylene	110	2.00	"	100	0.190	110	70-130	1.56	20	
o-Xylene	55.2	1.00	"	50.0	ND	110	70-130	4.03	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.3	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.8	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C019-071
Project: Kraus - Albin

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.

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.

July 24, 2020

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Kraus - Albin

Project Number - C019-071

Attached are your analytical results for Kraus - Albin received by Origins Laboratory, Inc. July 17, 2020. This project is associated with Origins project number Y007251-01.

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



Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C019-071
Project: Kraus - Albin

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
KASVE	Y007251-01	Air	July 17, 2020 9:10	07/17/2020 12:10

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C019-071
 Project: Kraus - Albin

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y007251

Client: Fremont
 Client Project ID: Kraus-Albin

Checklist Completed by: jm
 Date/time completed: 7-7-20

Shipped Via: HTD
 (US, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: n/a

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

Cooler Number/Temperature: / °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⁾ ?			X	
Is there ice present (document if blue ice is used)			X	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			X	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			X	
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			X	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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: jm (Project Manager)

Date/Time Reviewed: 7-20-20

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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C019-071
 Project: Kraus - Albin

KASVE

7/17/2020 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y007251-01 (Air)

GBTEX by TO-15M GC/MS

T

Gasoline Range Hydrocarbons	3230000	996000	ug/m ³ Air	4979.75	B0G1711	DJL	07/17/2020	07/20/2020	
Benzene	245000	13900	"	"	"	DJL	"	"	
Toluene	234000	24900	"	"	"	DJL	"	"	
Ethylbenzene	46100	24900	"	"	"	DJL	"	"	
m,p-Xylene	395000	94600	"	"	"	DJL	"	"	
o-Xylene	64000	23400	"	"	"	DJL	"	"	
Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C019-071
 Project: Kraus - Albin

Volatile Organic Compounds by TO-15 in Air - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0G1711 - Default Prep - Air										
Blank (B0G1711-BLK1)										
					Prepared: 07/17/2020 Analyzed: 07/17/2020					T
Gasoline Range Hydrocarbons	ND	200	ug/m ³ Air							U
Benzene	ND	2.80	"							U
Toluene	ND	5.00	"							U
Ethylbenzene	ND	5.00	"							U
m,p-Xylene	ND	19.0	"							U
o-Xylene	ND	4.70	"							U
Surrogate: 1,2-Dichloroethane-d4	11.4		ppbv	10.0		114	70-130			
Surrogate: Toluene-d8	9.70		"	10.0		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	10.1		"	10.0		101	70-130			
LCS (B0G1711-BS1)										
					Prepared: 07/17/2020 Analyzed: 07/17/2020					T
Benzene	30.7	2.80	ug/m ³ Air	31.9		96.2	70-130			
Toluene	32.9	5.00	"	37.7		87.3	70-130			
Ethylbenzene	39.0	5.00	"	43.4		89.9	70-130			
m,p-Xylene	168	19.0	"	174		97.0	70-130			
o-Xylene	40.9	4.70	"	43.4		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	10.4		ppbv	10.0		104	70-130			
Surrogate: Toluene-d8	9.47		"	10.0		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	11.1		"	10.0		111	70-130			
LCS Dup (B0G1711-BSD1)										
					Prepared: 07/17/2020 Analyzed: 07/17/2020					T
Benzene	31.1	2.80	ug/m ³ Air	31.9		97.3	70-130	1.14	25	
Toluene	33.2	5.00	"	37.7		88.2	70-130	1.03	25	
Ethylbenzene	40.9	5.00	"	43.4		94.3	70-130	4.78	25	
m,p-Xylene	176	19.0	"	174		101	70-130	4.34	25	
o-Xylene	43.9	4.70	"	43.4		101	70-130	6.96	25	
Surrogate: 1,2-Dichloroethane-d4	10.4		ppbv	10.0		104	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: C019-071
 Project: Kraus - Albin

Volatile Organic Compounds by TO-15 in Air - 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 B0G1711 - Default Prep - Air

LCS Dup (B0G1711-BSD1)

Prepared: 07/17/2020 Analyzed: 07/17/2020

T

Surrogate: Toluene-d8	9.39		ppbv	10.0		93.9	70-130			
Surrogate: 4-Bromofluorobenzene	11.0		"	10.0		110	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C019-071
Project: Kraus - Albin

Notes and Definitions

U Sample is Non-Detect.

T The TO-15 analysis is not part of the NELAC accreditation

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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