

FREMONT ENVIRONMENTAL INC.

January 31, 2022

Mr. Jacob Evans
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Groundwater Data Submittal - Combined 3rd and 4th Quarter 2021**
CPC Hoshiko 35-1, Hoshiko B 35-14 (AST)
API # 05-123-12716
NESW Sec. 35, T5N, R64W
Weld County, Colorado
Fremont Project No. C020-049
Facility #323210, Remediation #15651

Dear Mr. Evans:

Enclosed please find a copy of the above referenced Groundwater Data Submittal for the CPC Hoshiko 35-1, Hoshiko B 35-14 (AST) site in Weld County, Colorado. The enclosed data describes the groundwater quality at the site during the two most recent quarterly sampling and monitoring events.

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 GROUNDWATER ELEVATION AND ORGANIC CHEMISTRY DATA
NOBLE ENERGY INC.
CPC HOSHIKO 35-1, HOSHIKO B 35-14 (AST PIT), WELD COUNTY, COLORADO
FREMONT PROJECT C020-049

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPHTHALENE (µg/L)	1,2,4 TRIMETHYL-BENZENE (µg/L)	1,3,5 TRIMETHYL-BENZENE (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	08/31/20	<1.0	<1.0	2.0	40	NA	NA	NA	100.00	4.39	95.61	NP
	11/17/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		4.20	95.80	NP
	02/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		5.50	94.50	NP
	05/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		4.53	95.47	NP
	08/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		4.14	95.86	NP
	11/03/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		6.48	93.52	NP
MW-2	08/31/20	1.2	<1.0	300	1800	NA	NA	NA	100.00	4.76	95.24	NP
	11/17/20	<1.0	<1.0	280	1100	NA	NA	NA		4.30	95.70	NP
	02/22/21	1.3	<1.0	400	1400	64	740	130		5.53	94.47	NP
	05/25/21	<1.0	<1.0	<1.0	600	<1.0	2.2	210		4.57	95.43	NP
	08/25/21	<1.0	<1.0	350	640	24	290	3.2		5.43	94.57	NP
	11/03/21	<1.0	<1.0	<1.0	110	<1.0	6.4	<1.0		5.70	94.30	NP
MW-3	08/31/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	99.97	4.55	95.42	NP
	08/31/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		4.48	95.49	NP
	02/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		5.45	94.52	NP
	05/25/21	DES	DES	DES	DES	DES	DES	DES		DES	DES	DES
	08/25/21	DES	DES	DES	DES	DES	DES	DES		DES	DES	DES
MW-4	08/31/20	<1.0	<1.0	<1.0	1100	NA	NA	NA	100.09	4.58	95.51	NP
	11/17/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		4.83	95.26	NP
	02/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		5.56	94.53	NP
	05/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		4.53	95.56	NP
	08/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		4.85	95.24	NP
	11/03/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		5.62	94.47	NP
MW-5	08/31/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	100.50	4.87	95.63	NP
	11/17/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		5.02	95.48	NP
	02/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		5.95	94.55	NP
	05/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		4.91	95.59	NP
	08/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		4.87	95.63	NP
	11/03/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		5.97	94.53	NP
MW-6	11/17/20	<1.0	<1.0	<1.0	2.2	NA	NA	NA	99.81	7.63	92.18	NP
	02/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		5.50	94.31	NP
	05/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		4.93	94.88	NP
	08/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		5.53	94.28	NP
	11/03/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		5.65	94.16	NP
MW-7	11/19/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	100.29	7.95	92.34	NP
	02/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		5.84	94.45	NP
	05/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		5.10	95.19	NP
	08/25/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		6.70	93.59	NP

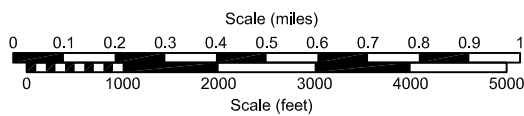
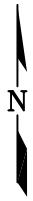
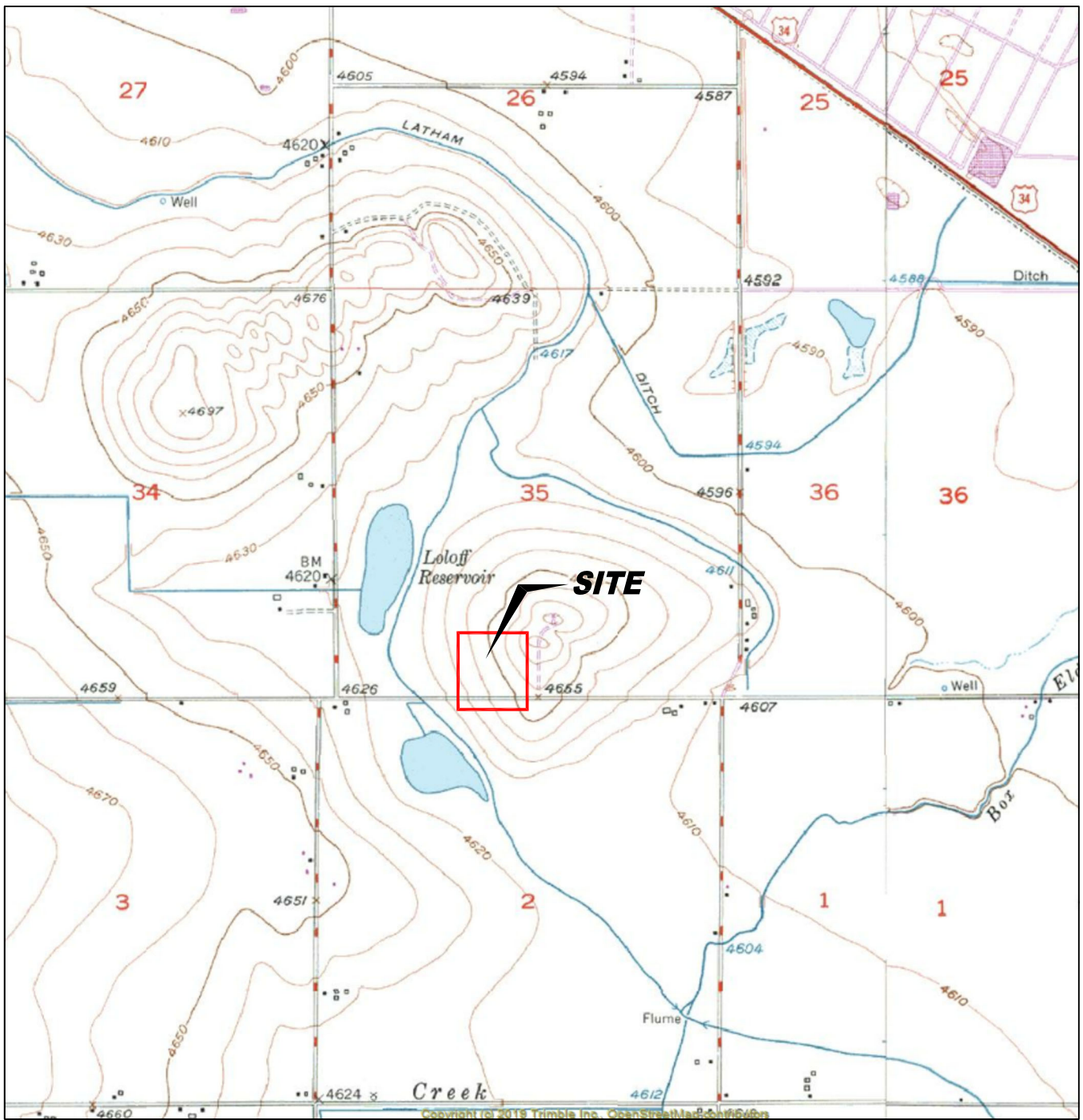
SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPHTHALENE (µg/L)	1,2,4 TRIMETHYL-BENZENE (µg/L)	1,3,5 TRIMETHYL-BENZENE (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-7	11/03/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.29	6.45	93.84	NP
Table 915-1 Limits		5	560	700	1,400	140	67	67				

Bold face values exceed the COGCC limits

NP - No Free Product

NS - No Sample

DES - Destroyed



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY, INC.
CPC HOSHIKO 35-1, HOSHIKO 35-14 (AST Pit)
 SESW Sec. 35 T5N, R64W, 40.348855°, -104.521793°
 Weld County, Colorado

Project No. C020-049	Prepared by	Drawn by TA
Date 11/23/21	Reviewed by EB	Filename 20049T





LEGEND

-  MONITORING WELL
-  DESTROYED MONITORING WELL
-  ABOVE GROUND STORAGE TANK
-  FORMER FORMER FACILITY
-  EXTENT OF EXCAVATION
-  CONTAINMENT BERM

**Figure 2
SITE MAP**

NOBLE ENERGY, INC.
CPC HOSHIKO 35-1, HOSHIKO 35-14
 SESW Sec. 35 T5N, R64W, 40.348855°, -104.521793°
 Weld County, Colorado

Project No. C020-049	Prepared by	Drawn by TA
Date 11/19/21	Reviewed by EB	Filename 20049Q



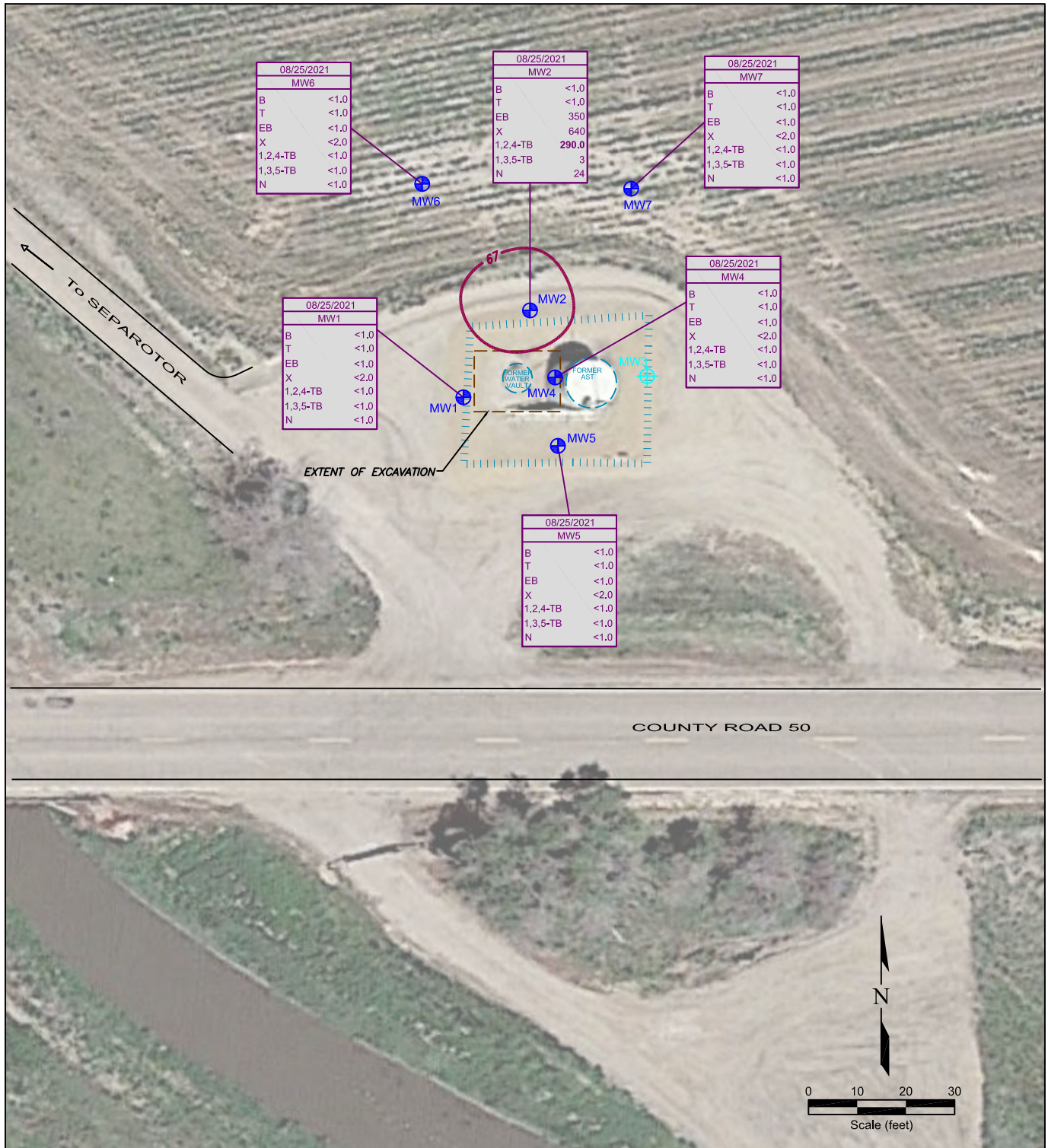


LEGEND

- + MONITORING WELL
- + DESTROYED MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- EXTENT OF EXCAVATION
- CONTAINMENT BERM
- (94.45) GROUND WATER ELEVATION
(feet above mean sea level)
- INFERRED GROUND WATER FLOW DIRECTION
- 94.00 WATER TABLE CONTOUR
(feet above mean sea level)

Figure 3
INFERRED GROUNDWATER ELEVATION MAP
August 25, 2021
NOBLE ENERGY, INC.
CPC HOSHIKO 35-1, HOSHIKO 35-14
 SESW Sec. 35 T5N, R64W, 40.348855°, -104.521793°
 Weld County, Colorado

Project No. C020-049	Prepared by	Drawn by TA	
Date 11/19/21	Reviewed by EB	Filename 20049Q	



LEGEND

- MONITORING WELL
- DESTROYED MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- EXTENT OF EXCAVATION
- CONTAINMENT BERM

08/25/2021	
MW1	
B	<1.0
T	<1.0
EB	<1.0
X	<2.0
1,2,4-TB	<1.0
1,3,5-TB	<1.0
N	<1.0

DATE SAMPLED
SAMPLE ID

BENZENE (ug/L)

TOLUENE (ug/L)

ETHYLBENZENE (ug/L)

TOTAL XYLENES (ug/L)

1,2,4-TRIMETHYLBENZENE (ug/L)

1,3,5-TRIMETHYLBENZENE (ug/L)

NAPHTHALENE (ug/L)

1,2,4 TRIMETHYLBENZENE CONCENTRATION (ug/L) (dashed where inferred)

Figure 4
**GROUNDWATER CHEMISTRY WITH
 1,2,4 TRIMETHYLBENZENE CONCENTRATION MAP**
 August 25, 2021
NOBLE ENERGY, INC.
CPC HOSHIKO 35-1, HOSHIKO 35-14
 SESW Sec. 35 T5N, R64W, 40.348855°, -104.521793°
 Weld County, Colorado

Project No. C020-049	Prepared by	Drawn by TA
Date 11/19/21	Reviewed by EB	Filename 20049Q





LEGEND










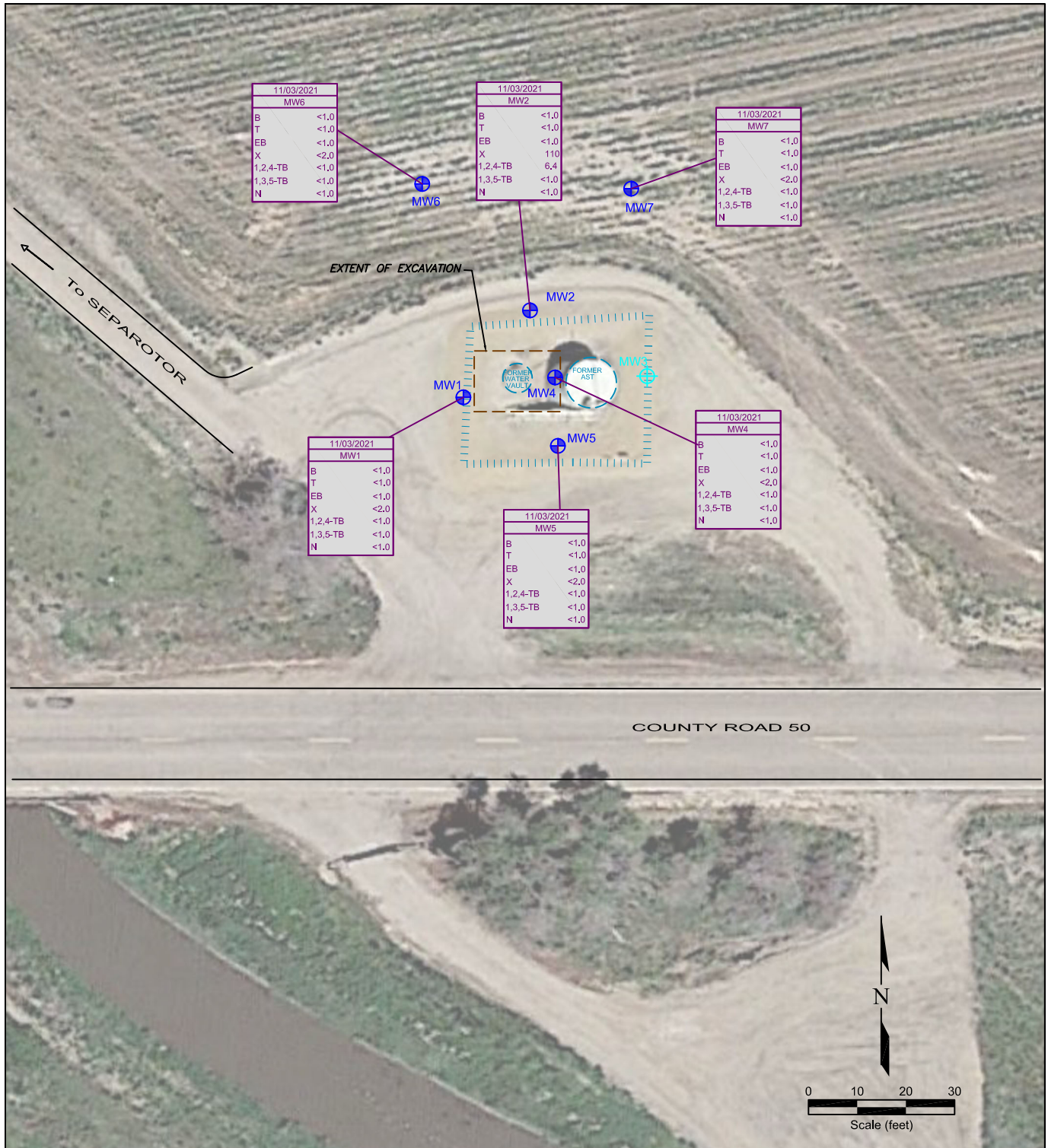
-  MONITORING WELL
-  DESTROYED MONITORING WELL
-  ABOVE GROUND STORAGE TANK
-  FORMER FACILITY
-  EXTENT OF EXCAVATION
-  CONTAINMENT BERM
-  GROUND WATER ELEVATION
(feet above mean sea level)
-  INFERRERD GROUND WATER FLOW DIRECTION
-  WATER TABLE CONTOUR
(feet above mean sea level)

Figure 5
INFERRERD GROUNDWATER ELEVATION MAP
 November 3, 2021
NOBLE ENERGY, INC.
CPC HOSHIKO 35-1, HOSHIKO 35-14
 SESW Sec. 35 T5N, R64W, 40.348855°, -104.521793°
 Weld County, Colorado

Project No. C020-049	Prepared by	Drawn by TA
Date 1/31/22	Reviewed by PH	Filename 20049Q





LEGEND

- ⊕ MONITORING WELL
- ⊕ DESTROYED MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- EXTENT OF EXCAVATION
- CONTAINMENT BERM

11/03/2021	
MW1	
B	<1.0
T	<1.0
EB	<1.0
X	<2.0
1,2,4-TB	<1.0
1,3,5-TB	<1.0
N	<1.0

DATE SAMPLED	11/03/2021
SAMPLE ID	MW1
BENZENE (ug/L)	<1.0
TOLUENE (ug/L)	<1.0
ETHYLBENZENE (ug/L)	<1.0
TOTAL XYLENES (ug/L)	<2.0
1,2,4-TRIMETHYLBENZENE (ug/L)	<1.0
1,3,5-TRIMETHYLBENZENE (ug/L)	<1.0
NAPHTHALENE (ug/L)	<1.0

Figure 6
GROUNDWATER CHEMISTRY MAP
November 3, 2021
NOBLE ENERGY, INC.
CPC HOSHIKO 35-1, HOSHIKO 35-14
 SESW Sec. 35 T5N, R64W, 40.348855°, -104.521793°
 Weld County, Colorado

Project No. C020-049	Prepared by	Drawn by TA
Date 1/31/22	Reviewed by PH	Filename 20049Q



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 09, 2021

Paul Henchan

Fremont Environmental

PO Box 1289

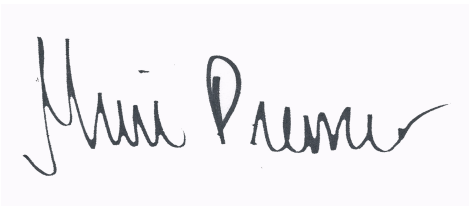
Wellington, CO 80549

RE: Noble - CPC Hoshiko (AST)

Work Order #2108387

Enclosed are the results of analyses for samples received by Summit Scientific on 08/25/21 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/09/21 16:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2108387-01	Water	08/25/21 00:00	08/25/21 16:00
MW-2	2108387-02	Water	08/25/21 00:00	08/25/21 16:00
MW-4	2108387-03	Water	08/25/21 00:00	08/25/21 16:00
MW-5	2108387-04	Water	08/25/21 00:00	08/25/21 16:00
MW-6	2108387-05	Water	08/25/21 00:00	08/25/21 16:00
MW-7	2108387-06	Water	08/25/21 00:00	08/25/21 16:00

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.

Summit Scientific

2108387

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: Jacob

Phone: 303-956-8714

Project Name: Noble - CPC Hoshiko (AST)

Sampler Name: EB

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN - 915	GBTEXN - 915	GRO	DRO/ORO	SAR	EC	pH		Boron	PAH - 915
1	MW-1	8/25/21		3	X				X				X	X								
2	MW-2																					
3	MW-4																					
4	MW-5																					
5	MW-6																					
6	MW-7																					
7																						
8																						
9																						
10																						

Relinquished by: <u>G. Black</u>	Date/Time: <u>8/25/21 1530</u>	Received by: <u>Will Gali</u>	Date/Time: <u>8/25/21 1600</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	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"/>	
				Sample Integrity:	
				Temperature Upon Receipt: <u>8</u>	
				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

2108387

Sample Receipt Checklist

S2 Work Order _____

Client: Fremont Client Project ID: Noble-CPC Hoshiko (AST)

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C) 8

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
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 type="checkbox"/>	<input checked="" 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⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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.

WG
Custodian Printed Name or Initials

Will Galin
Signature of Custodian

8/25/21
Date/Time



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/09/21 16:37

MW-1
2108387-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/25/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0518	08/27/21	08/28/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/25/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		89.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/09/21 16:37

MW-2
2108387-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEH0518	08/27/21	08/28/21	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	350	10		"	10	"	"	"	"	
Xylenes (total)	640	20		"	"	"	"	"	"	
Naphthalene	24	1.0		"	1	"	"	"	"	
1,2,4-Trimethylbenzene	290	10		"	10	"	"	"	"	
1,3,5-Trimethylbenzene	3.2	1.0		"	1	"	"	"	"	

Date Sampled: **08/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		95.2 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/09/21 16:37

MW-4
2108387-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/25/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0518	08/27/21	08/29/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/25/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		95.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/09/21 16:37

MW-5
2108387-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/25/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0518	08/27/21	08/29/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/25/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		90.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/09/21 16:37

MW-6
2108387-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEH0518	08/27/21	08/29/21	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **08/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		90.8 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		97.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/09/21 16:37

MW-7
2108387-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEH0518	08/27/21	08/29/21	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **08/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		91.2 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/09/21 16:37

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEH0518 - EPA 5030 Water MS

Blank (BEH0518-BLK1)

Prepared & Analyzed: 08/27/21

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.5		"	13.3		93.5	23-173			
<i>Surrogate: Toluene-d8</i>	13.2		"	13.3		99.4	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.7		"	13.3		95.4	21-167			

LCS (BEH0518-BS1)

Prepared: 08/27/21 Analyzed: 08/28/21

Benzene	47.9	1.0	ug/l	50.0		95.7	51-132			
Toluene	50.2	1.0	"	50.0		100	51-138			
Ethylbenzene	51.7	1.0	"	50.0		103	58-146			
m,p-Xylene	102	2.0	"	100		102	57-144			
o-Xylene	53.0	1.0	"	50.0		106	53-146			
Naphthalene	45.3	1.0	"	50.0		90.5	70-130			
1,2,4-Trimethylbenzene	52.8	1.0	"	50.0		106	70-130			
1,3,5-Trimethylbenzene	52.2	1.0	"	50.0		104	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.8		"	13.3		96.0	23-173			
<i>Surrogate: Toluene-d8</i>	13.5		"	13.3		101	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.3		"	13.3		99.8	21-167			

Matrix Spike (BEH0518-MS1)

Source: 2108362-01

Prepared: 08/27/21 Analyzed: 08/28/21

Benzene	48.8	1.0	ug/l	50.0	ND	97.6	34-141			
Toluene	51.5	1.0	"	50.0	ND	103	27-151			
Ethylbenzene	52.6	1.0	"	50.0	ND	105	29-160			
m,p-Xylene	104	2.0	"	100	ND	104	20-166			
o-Xylene	53.8	1.0	"	50.0	ND	108	33-159			
Naphthalene	52.5	1.0	"	50.0	ND	105	70-130			
1,2,4-Trimethylbenzene	53.9	1.0	"	50.0	ND	108	70-130			
1,3,5-Trimethylbenzene	53.8	1.0	"	50.0	ND	108	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.5		"	13.3		94.1	23-173			
<i>Surrogate: Toluene-d8</i>	13.2		"	13.3		99.4	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.1		"	13.3		98.3	21-167			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/09/21 16:37

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEH0518 - EPA 5030 Water MS

Matrix Spike Dup (BEH0518-MSD1)	Source: 2108362-01			Prepared: 08/27/21 Analyzed: 08/28/21					
Benzene	50.7	1.0	ug/l	50.0	ND	101	34-141	3.88	30
Toluene	53.0	1.0	"	50.0	ND	106	27-151	2.91	30
Ethylbenzene	55.8	1.0	"	50.0	ND	112	29-160	5.95	30
m,p-Xylene	110	2.0	"	100	ND	110	20-166	5.60	30
o-Xylene	56.3	1.0	"	50.0	ND	113	33-159	4.41	30
Naphthalene	60.6	1.0	"	50.0	ND	121	70-130	14.2	30
1,2,4-Trimethylbenzene	57.5	1.0	"	50.0	ND	115	70-130	6.43	30
1,3,5-Trimethylbenzene	56.9	1.0	"	50.0	ND	114	70-130	5.67	30
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.3		93.9	23-173		
Surrogate: Toluene-d8	13.3		"	13.3		100	20-170		
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/09/21 16:37

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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

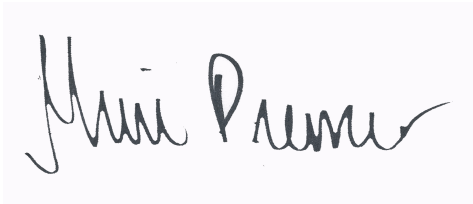
303.277.9310

November 08, 2021

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
Noble - CPC Hoshiko (AST)
Work Order #2111051

Enclosed are the results of analyses for samples received by Summit Scientific on 11/03/21 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/21 14:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2111051-01	Water	11/03/21 00:00	11/03/21 16:40
MW-2	2111051-02	Water	11/03/21 00:00	11/03/21 16:40
MW-4	2111051-03	Water	11/03/21 00:00	11/03/21 16:40
MW-5	2111051-04	Water	11/03/21 00:00	11/03/21 16:40
MW-6	2111051-05	Water	11/03/21 00:00	11/03/21 16:40
MW-7	2111051-06	Water	11/03/21 00:00	11/03/21 16:40

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.

Summit Scientific

S₂

2111051

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: Jacob

Phone: 303-956-8714

Project Name: Chevron - CRC Heshiko (AST)

Sampler Name: Black

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX/MS	Naphthalene	GRO	DRO	SAR	EC		pH	Boron
1	MW-1	11/3/21		3			X		X				X	X							
2	MW-2																				
3	MW-4																				
4	MW-5																				
5	MW-6																				
6	MW-7																				
7																					
8																					
9																					
10																					

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>11/3/21</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11-3-21 1640</u>	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>3.9</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# _____

2111051

Client: Fremont Environmental Client Project ID: Chevron CPC Heshiko (AST)

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C)	<u>3.9</u>
-----------	------------

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ICE</u>
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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⁾ ? Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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.

[Signature]
Custodian Printed Name or Initials

11.3.21
Date/Time



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/08/21 14:18

MW-1
2111051-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEK0090	11/03/21	11/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **11/03/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		125 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/08/21 14:18

MW-2
2111051-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEK0090	11/03/21	11/05/21	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	110	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	6.4	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **11/03/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		135 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/08/21 14:18

MW-4
2111051-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEK0090	11/03/21	11/05/21	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **11/03/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		123 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %		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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/08/21 14:18

MW-5
2111051-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEK0090	11/03/21	11/05/21	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **11/03/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		124 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/08/21 14:18

MW-6
2111051-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEK0090	11/03/21	11/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **11/03/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		129 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 11/08/21 14:18

MW-7
2111051-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/03/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEK0090	11/03/21	11/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **11/03/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		129 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

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Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/21 14:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEK0090 - EPA 5030 Water MS

Blank (BEK0090-BLK1)

Prepared: 11/03/21 Analyzed: 11/05/21

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	16.8		"	13.3		126		23-173			
<i>Surrogate: Toluene-d8</i>	13.4		"	13.3		100		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.3		"	13.3		99.7		21-167			

LCS (BEK0090-BS1)

Prepared: 11/03/21 Analyzed: 11/05/21

Benzene	34.3	1.0	ug/l	41.7		82.3		51-132			
Toluene	38.4	1.0	"	41.7		92.2		51-138			
Ethylbenzene	43.1	1.0	"	41.7		103		58-146			
m,p-Xylene	81.2	2.0	"	83.3		97.4		57-144			
o-Xylene	41.6	1.0	"	41.7		99.8		53-146			
Naphthalene	37.2	1.0	"	41.7		89.3		70-130			
1,2,4-Trimethylbenzene	43.0	1.0	"	41.7		103		70-130			
1,3,5-Trimethylbenzene	41.1	1.0	"	41.7		98.7		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	17.0		"	13.3		128		23-173			
<i>Surrogate: Toluene-d8</i>	13.5		"	13.3		101		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.7		"	13.3		103		21-167			

Matrix Spike (BEK0090-MS1)

Source: 2111042-08

Prepared: 11/03/21 Analyzed: 11/05/21

Benzene	34.8	1.0	ug/l	41.7	ND	83.5		34-141			
Toluene	39.2	1.0	"	41.7	ND	94.0		27-151			
Ethylbenzene	44.2	1.0	"	41.7	ND	106		29-160			
m,p-Xylene	85.0	2.0	"	83.3	ND	102		20-166			
o-Xylene	43.6	1.0	"	41.7	ND	105		33-159			
Naphthalene	41.0	1.0	"	41.7	ND	98.3		70-130			
1,2,4-Trimethylbenzene	45.0	1.0	"	41.7	ND	108		70-130			
1,3,5-Trimethylbenzene	43.2	1.0	"	41.7	ND	104		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	17.2		"	13.3		129		23-173			
<i>Surrogate: Toluene-d8</i>	13.6		"	13.3		102		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.9		"	13.3		104		21-167			

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Project Number: [none]
 Project Manager: Paul Henchan

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BEK0090 - EPA 5030 Water MS

Matrix Spike Dup (BEK0090-MSD1)	Source: 2111042-08			Prepared: 11/03/21 Analyzed: 11/05/21					
Benzene	33.3	1.0	ug/l	41.7	ND	80.0	34-141	4.37	30
Toluene	38.0	1.0	"	41.7	ND	91.3	27-151	2.90	30
Ethylbenzene	42.1	1.0	"	41.7	ND	101	29-160	4.96	30
m,p-Xylene	80.9	2.0	"	83.3	ND	97.1	20-166	4.91	30
o-Xylene	41.4	1.0	"	41.7	ND	99.5	33-159	5.01	30
Naphthalene	42.6	1.0	"	41.7	ND	102	70-130	3.97	30
1,2,4-Trimethylbenzene	43.2	1.0	"	41.7	ND	104	70-130	4.24	30
1,3,5-Trimethylbenzene	41.6	1.0	"	41.7	ND	99.9	70-130	3.75	30
Surrogate: 1,2-Dichloroethane-d4	17.9		"	13.3		135	23-173		
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170		
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		106	21-167		

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Project: Noble - CPC Hoshiko (AST)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/08/21 14:18

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