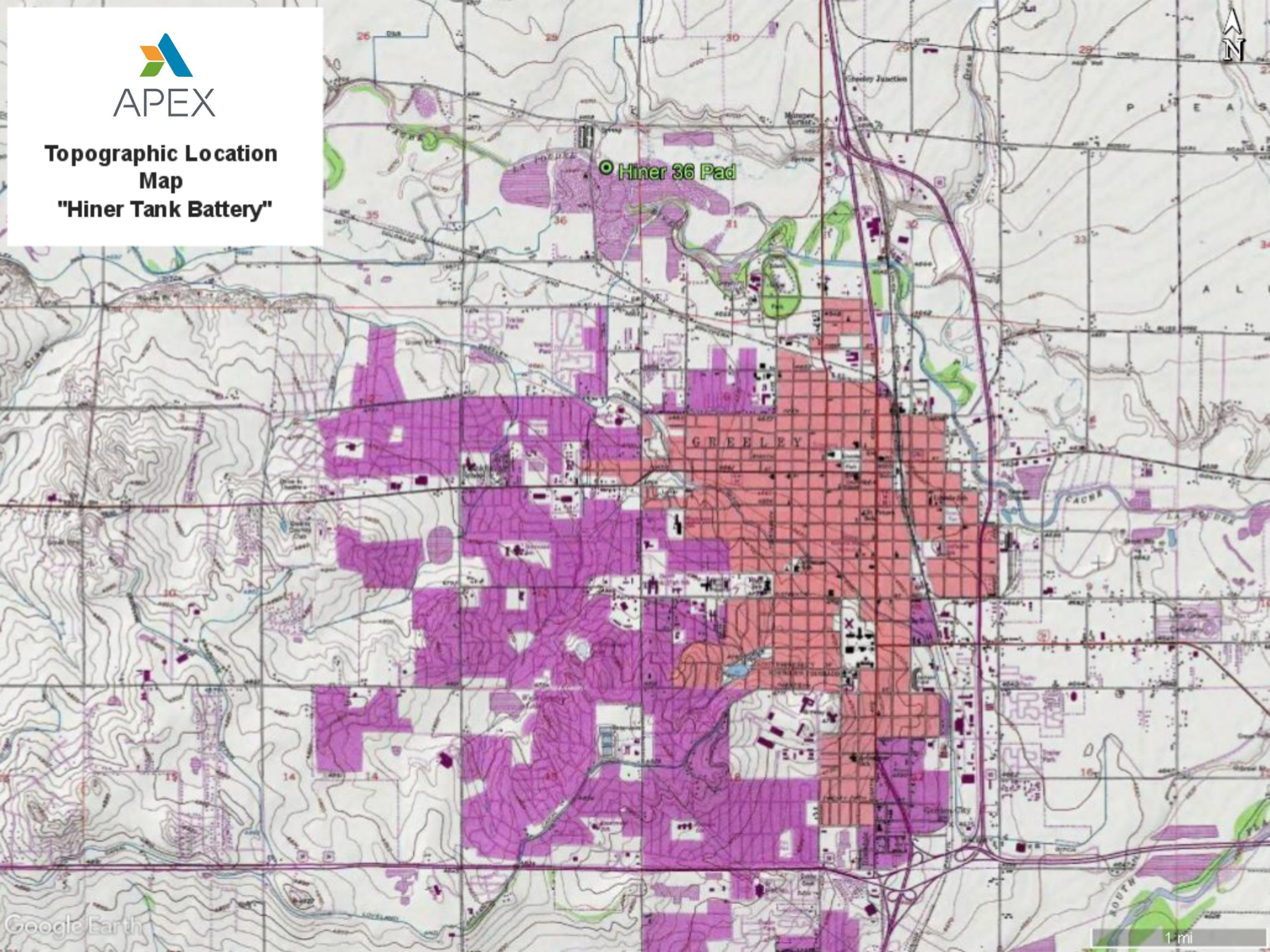
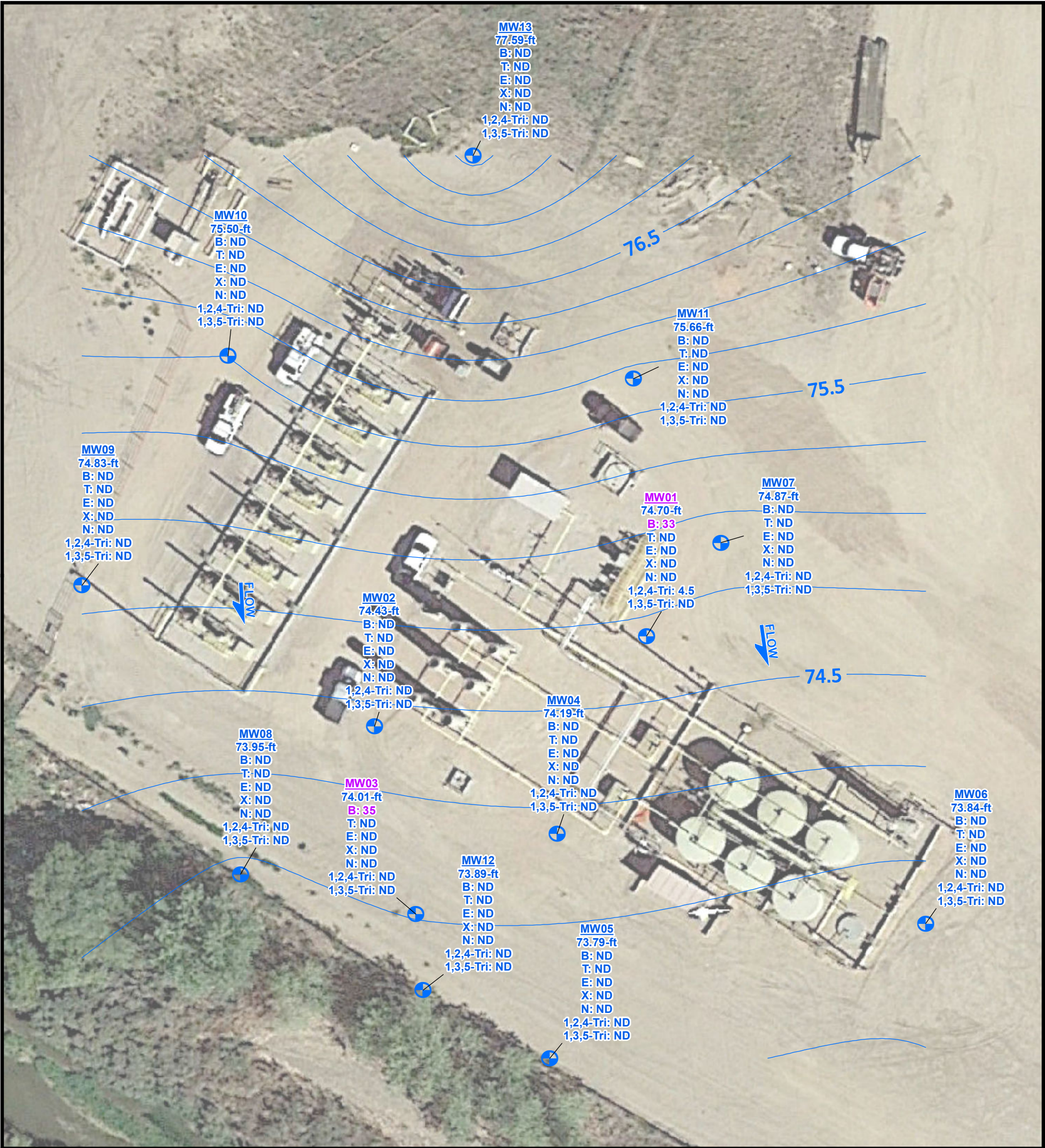




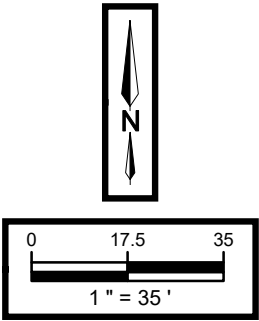
**Topographic Location
Map
"Hiner Tank Battery"**





Extraction Oil & Gas
Hiner 36 Tank Battery
COGCC Location ID: 446538
Temporary Monitoring Well Layout &
GW Elevations for the
1/27/2021 Sampling Event

Legal Description: NENE, Sec 36, T6N R66W
County: Weld
Land Use: Non-Cropland
Topography: Not Available
Run-Off Risk: Low
Soil Type: Aquolls and Aquents
Receiving Waters: Cache la Poudre River



MW01
80.60-ft

Temp. Monitoring
Well Location &
Relative GW
Elevation

FLOW
Estimated
Groundwater Flow
Direction

Estimated
Groundwater
Contour

*** Sample ID in Purple font
indicates a regulatory
exceedance.**

Concentration Units in ug/L
ND: non-detect
B: benzene
T: toluene
E: ethylbenzene
X: total xylenes
N: naphthalene
1,2,4-Tri: 1,2,4-trimethylbenzene
1,3,5-Tri: 1,3,5-trimethylbenzene



Sample ID	Latitude NAD83	Longitude NAD83	Sample ID	Latitude NAD83	Longitude NAD83
MW01	40.449073	-104.719683	MW08	40.449073	-104.719683
MW02	40.448991	-104.720012	MW09	40.448991	-104.720012
MW03	40.448818	-104.719963	MW10	40.448818	-104.719963
MW04	40.448891	-104.719792	MW11	40.448891	-104.719792
MW05	40.448684	-104.719802	MW12	40.448684	-104.719802
MW06	40.448807	-104.719347	MW13	40.448807	-104.719347
MW07	40.449160	-104.719593			

Spatial data collected for this project was acquired using a GPS with submeter accuracy. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. To accurately reflect field conditions, illustrated data may have been manually corrected in order to fit with the aerial imagery reference points and other collected data points.



Laboratory Results Summary Table - Groundwater Hiner 36 Pad

			Organic Compounds in Groundwater (µg/L)							Groundwater Inorganic Compounds		
COGCC Allowable Concentration (Water) -->			5	560 to 1000	700	1400 to 10000	140	67	67	<1.25 x local background	250 mg/L or <1.25 x local background	250 mg/L or <1.25 x local background
Location	Sample Date	Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes (sum of o-, m- and p- isomers = total xylenes)	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Dissolved Solids (TDS) (mg/L)	Chloride Ion	Sulfate Ion
Hiner 36 Pad	6/10/19	MW01	160	11	39	150	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	6/10/19	MW02	<1.00	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	6/10/19	MW03	1.9	<1.00	1.8	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	6/10/19	MW04	280	<1.00	9.3	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	7/10/19	MW05	38	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	7/10/19	MW06	<1.00	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	7/10/19	MW07	<1.00	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/8/19	MW01	29	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/8/19	MW02	<1.00	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/8/19	MW03	7.6	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/8/19	MW04	<1.00	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/8/19	MW05	<1.00	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/8/19	MW06	<1.00	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/8/19	MW07	7.9	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	11/5/19	MW01	20	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	11/5/19	MW02	<1.00	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	11/5/19	MW03	3	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	11/5/19	MW04	<1.00	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	11/5/19	MW05	<1.00	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	11/5/19	MW06	<1.00	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA

Legend:

COGCC - Colorado Oil and Gas Conservation Commission

Orange Highlight - COGCC

Table 915-1 exceedance; for

Yellow Highlight - for toluene and total xylenes, health based exceedance

Grey Highlight - below laboratory detection limit

MCL - maximum contaminant level

NA - not analyzed

µg/L - micrograms per liter

mg/L - milligrams per liter

* - upgradient and/or background well(s)



Laboratory Results Summary Table - Groundwater Hiner 36 Pad

			Organic Compounds in Groundwater (µg/L)							Groundwater Inorganic Compounds		
COGCC Allowable Concentration (Water) -->			5	560 to 1000	700	1400 to 10000	140	67	67	<1.25 x local background	250 mg/L or <1.25 x local background	250 mg/L or <1.25 x local background
Location	Sample Date	Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes (sum of o-, m- and p- isomers = total xylenes)	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Dissolved Solids (TDS) (mg/L)	Chloride Ion	Sulfate Ion
Hiner 36 Pad	11/5/19	MW07	2.2	<1.00	<1.00	<2.00	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	2/21/20	MW01	21	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	2/21/20	MW02	540	130	9.4	63	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	2/21/20	MW03	700	100	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	2/21/20	MW04	35	1.6	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	2/21/20	MW05	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	2/21/20	MW06	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	2/21/20	MW07	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	5/12/20	MW01	96	<1.0	4.1	7.9	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	5/12/20	MW02	59	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	5/12/20	MW03	<1.0	1.4	1.6	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	5/12/20	MW04	25	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	5/12/20	MW05	1.7	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	5/12/20	MW06	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	5/12/20	MW07	25	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	5/12/20	MW08	9.4	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	5/12/20	MW09	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	5/12/20	MW10	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	5/12/20	MW11	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	5/12/20	MW12	170	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA

Legend:

COGCC - Colorado Oil and Gas Conservation Commission

Orange Highlight - COGCC

Table 915-1 exceedance; for

Yellow Highlight - for toluene and total xylenes, health based exceedance

Grey Highlight - below laboratory detection limit

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µg/L - micrograms per liter

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* - upgradient and/or background well(s)



Laboratory Results Summary Table - Groundwater Hiner 36 Pad

			Organic Compounds in Groundwater (µg/L)							Groundwater Inorganic Compounds		
COGCC Allowable Concentration (Water) -->			5	560 to 1000	700	1400 to 10000	140	67	67	<1.25 x local background	250 mg/L or <1.25 x local background	250 mg/L or <1.25 x local background
Location	Sample Date	Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes (sum of o-, m- and p- isomers = total xylenes)	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Dissolved Solids (TDS) (mg/L)	Chloride Ion	Sulfate Ion
Hiner 36 Pad	5/12/20	MW13	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/19/20	MW01	44	<1.0	1.0	2.8	1.0	3.4	1.0	NA	NA	NA
Hiner 36 Pad	8/19/20	MW02	52	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/19/20	MW03	6.1	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/19/20	MW04	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/19/20	MW05	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/19/20	MW06	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/19/20	MW07	2.4	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/19/20	MW08	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/19/20	MW09	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/19/20	MW10	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/19/20	MW11	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	8/19/20	MW12	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA
Hiner 36 Pad	8/19/20	MW13	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	10/30/20	MW01	53	<1.0	<1.0	3.7	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	10/30/20	MW02	2.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	10/30/20	MW03	44	<1.0	5.5	5.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	10/30/20	MW04	7.5	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	10/30/20	MW05	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	10/30/20	MW06	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA

Legend:

COGCC - Colorado Oil and Gas Conservation Commission

Orange Highlight - COGCC

Table 915-1 exceedance; for

Yellow Highlight - for toluene and total xylenes, health based exceedance

Grey Highlight - below laboratory detection limit

MCL - maximum contaminant level

NA - not analyzed

µg/L - micrograms per liter

mg/L - milligrams per liter

* - upgradient and/or background well(s)



Laboratory Results Summary Table - Groundwater Hiner 36 Pad

			Organic Compounds in Groundwater (µg/L)							Groundwater Inorganic Compounds		
COGCC Allowable Concentration (Water) -->			5	560 to 1000	700	1400 to 10000	140	67	67	<1.25 x local background	250 mg/L or <1.25 x local background	250 mg/L or <1.25 x local background
Location	Sample Date	Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes (sum of o-, m- and p- isomers = total xylenes)	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Dissolved Solids (TDS) (mg/L)	Chloride Ion	Sulfate Ion
Hiner 36 Pad	10/30/20	MW07	1.1	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	10/30/20	MW08	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	10/30/20	MW09	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	10/30/20	MW10	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	10/30/20	MW11	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	10/30/20	MW12	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	10/30/20	MW13	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	NA	NA	NA
Hiner 36 Pad	1/27/21	MW01	33	<1.0	<1.0	<2.0	<1.0	4.5	<1.0	995	42.4	1060
Hiner 36 Pad	1/27/21	MW02	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	986	35	1070
Hiner 36 Pad	1/27/21	MW03	35	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	985	38	926
Hiner 36 Pad	1/27/21	MW04	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	983	37	998
Hiner 36 Pad	1/27/21	MW05	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	995	36.2	1060
Hiner 36 Pad	1/27/21	MW06	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	996	38	1070
Hiner 36 Pad	1/27/21	MW07	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	968	41.4	1100
Hiner 36 Pad	1/27/21	MW08	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	992	43	1090
Hiner 36 Pad	1/27/21	MW09	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	998	36.6	1190
Hiner 36 Pad	1/27/21	MW10*	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	994	35.2	1030
Hiner 36 Pad	1/27/21	MW11*	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	980	35.2	1020
Hiner 36 Pad	1/27/21	MW12	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	994	35	1020
Hiner 36 Pad	1/27/21	MW13*	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	996	32.2	912

Legend:

COGCC - Colorado Oil and Gas Conservation Commission

Orange Highlight - COGCC

Table 915-1 exceedance; for

Yellow Highlight - for toluene and total xylenes, health based exceedance

Grey Highlight - below laboratory detection limit

MCL - maximum contaminant level

NA - not analyzed

µg/L - micrograms per liter

mg/L - milligrams per liter

* - upgradient and/or background well(s)

Attachment A

Laboratory Analytical Report

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310


February 04, 2021

Maggie Graham
Extraction Oil&Gas
370 17th Street Suite 5300
Denver, CO 80202

RE: Hiner 36
Work Order #2101267

Enclosed are the results of analyses for samples received by Summit Scientific on 01/27/21 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Muri Premier For Paul Shrewsbury
President



Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	2101267-01	Water	01/27/21 15:10	01/27/21 16:30
MW02	2101267-02	Water	01/27/21 15:01	01/27/21 16:30
MW03	2101267-03	Water	01/27/21 14:33	01/27/21 16:30
MW04	2101267-04	Water	01/27/21 15:30	01/27/21 16:30
MW05	2101267-05	Water	01/27/21 14:00	01/27/21 16:30
MW06	2101267-06	Water	01/27/21 14:15	01/27/21 16:30
MW07	2101267-07	Water	01/27/21 14:40	01/27/21 16:30
MW08	2101267-08	Water	01/27/21 13:05	01/27/21 16:30
MW09	2101267-09	Water	01/27/21 13:06	01/27/21 16:30
MW10	2101267-10	Water	01/27/21 13:32	01/27/21 16:30
MW11	2101267-11	Water	01/27/21 14:26	01/27/21 16:30
MW12	2101267-12	Water	01/27/21 13:30	01/27/21 16:30
MW13	2101267-13	Water	01/27/21 13:59	01/27/21 16:30

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.

2101267.1

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 2

Client: APEX Companies, LLC

Address: 176 Cole Blvd. Suite 250

City/State/Zip: Lakewood, Colorado 80101

Phone: 720-501-5065

Fax:

Sampler Name: Sage Maher + Jeff Griggs

Project Manager: Maggie Graham 720-501-5065

E-Mail: DenverRemediation@ApexCos.onmicrosoft.com

Project Name: Himer 34

Project Number: 744.2101.01-440538

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)										
MW01	1/27/21	1510	4	3		1		X				full 915	X								Call Maggie Graham with questions
MW02		1501																			
MW03		1433																			
MW04		1530																			
MW05		1400																			
MW06		1415																			
MW07		1440																			
MW08		1305																			
MW09		1304																			
MW10	↓	1332	↓	↓				↓				↓									
Relinquished by: [Signature]				Date/Time: 1/27/21	Received by: [Signature]				Date/Time: 01/27/2021	Turn Around Time (Check) Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/>				72 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>				Notes Circle applicable regulatory agency: <u>COGCC/CDPHE</u>			
Relinquished by:				Date/Time:	Received by:				Date/Time:												
Relinquished by:				Date/Time:	Received in Lab by:				Date/Time:	Sample Integrity: Temperature Upon Receipt: 4.9 Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Client Name: XOU							

2101267.2

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 Fax

Page 2 of 2

Client: APEX Companies, LLC

Address: 176 Cole Blvd. Suite 250

City/State/Zip: Lakewood, Colorado 80101

Phone: 720-501-5065

Fax:

Sampler Name: Sage Maher + Jeff Briggs

Project Manager: Maggie Graham 720-501-5065

E-Mail: DenverRemediation@ApexCos.onmicrosoft.com

Project Name: Hiver 36

Project Number: 744 2101.01-446538

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)								
MW11	1/27/21	1420	4	3		1		X				full 9/15							Call Maggie Graham with questions
MW12	↓	1330	↓	↓		↓		↓				↓							
MW13	↓	1359	↓	↓		↓		↓				↓							

Relinquished by: *[Signature]* Date/Time: 1/27/21 1630 Received by: *[Signature]* Date/Time: 01/27/2021 1630

Relinquished by: _____ Date/Time: _____ Received by: *[Signature]* Date/Time: _____

Relinquished by: _____ Date/Time: _____ Received in Lab by: _____ Date/Time: _____

Turn Around Time (Check)

Same Day ☐ 72 Hours ☐

24 Hours ☐ Standard ☒

48 Hours ☐

Sample Integrity:

Temperature Upon Receipt: 4.7

Intact: Yes ☒ No ☐

Notes

Circle applicable regulatory agency:
COGCC / CDPHE

Client Name:
XDV

Sample Receipt Checklist

2101267

S2 Work Order _____

Client: APEx Companies Client Project ID: Hiner 36

Shipped 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⁾ ?				
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	X			
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
If custody seals are present, are they intact ⁽¹⁾ ?			X	
Are samples with holding times due within 48 hours sample due within 48 hours present?		X		
Is a chain-of-custody (COC) form 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 w/ date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		X		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	X			HCL
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			X	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			X	

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

01/27/2021



Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

MW01
2101267-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	33	1.0	ug/l	1	BEA0351	01/29/21	01/29/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	4.5	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/27/21 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/27/21 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	42.4	12.0	mg/L	200	BEB0005	02/01/21	02/01/21	EPA 300.0	
Sulfate	1060	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **01/27/21 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	995	10.0	mg/L	1	BEA0314	01/28/21	01/28/21	SM2540C	

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

MW02
2101267-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 15:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEA0351	01/29/21	01/29/21	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: **01/27/21 15:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		114 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/27/21 15:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	35.0	12.0		mg/L	200	BEB0005	02/01/21	02/01/21	EPA 300.0	
Sulfate	1070	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **01/27/21 15:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	986	10.0		mg/L	1	BEA0314	01/28/21	01/28/21	SM2540C	

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

MW03
2101267-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 14:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	35	1.0		ug/l	1	BEA0351	01/29/21	01/29/21	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: **01/27/21 14:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		105 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		97.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/27/21 14:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Sulfate	926	60.0		mg/L	200	BEB0005	02/01/21	02/01/21	EPA 300.0	
Chloride	38.0	12.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **01/27/21 14:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	985	10.0		mg/L	1	BEA0314	01/28/21	01/28/21	SM2540C	

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

MW04
2101267-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEA0351	01/29/21	01/29/21	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: **01/27/21 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		110 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		98.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/27/21 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Sulfate	998	60.0		mg/L	200	BEB0005	02/01/21	02/01/21	EPA 300.0	
Chloride	37.0	12.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **01/27/21 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	983	10.0		mg/L	1	BEA0314	01/28/21	01/28/21	SM2540C	

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

MW05
2101267-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEA0351	01/29/21	01/29/21	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: **01/27/21 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		110 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		95.9 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/27/21 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Sulfate	1060	60.0		mg/L	200	BEB0005	02/01/21	02/01/21	EPA 300.0	
Chloride	36.2	12.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **01/27/21 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	995	10.0		mg/L	1	BEA0314	01/28/21	01/28/21	SM2540C	

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

MW06
2101267-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEA0351	01/29/21	01/30/21	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: **01/27/21 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/27/21 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	38.0	12.0	mg/L	200	BEB0005	02/01/21	02/01/21	EPA 300.0	
Sulfate	1070	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **01/27/21 14:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	996	10.0	mg/L	1	BEA0314	01/28/21	01/28/21	SM2540C	

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

MW07
2101267-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BEA0351	01/29/21	01/30/21	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: **01/27/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/27/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	41.4	12.0	mg/L	200	BEB0005	02/01/21	02/01/21	EPA 300.0	
Sulfate	1100	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **01/27/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	968	10.0	mg/L	1	BEA0314	01/28/21	01/28/21	SM2540C	

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

MW08
2101267-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEA0351	01/29/21	01/30/21	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: **01/27/21 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		109 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		96.9 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/27/21 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	43.0	12.0		mg/L	200	BEB0005	02/01/21	02/01/21	EPA 300.0	
Sulfate	1090	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **01/27/21 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	992	10.0		mg/L	1	BEA0314	01/28/21	01/28/21	SM2540C	

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

MW09
2101267-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEA0351	01/29/21	01/30/21	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: **01/27/21 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/27/21 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	36.6	12.0	mg/L	200	BEB0005	02/01/21	02/01/21	EPA 300.0	
Sulfate	1190	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **01/27/21 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	998	10.0	mg/L	1	BEA0314	01/28/21	01/28/21	SM2540C	

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

MW10
2101267-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BEA0351	01/29/21	01/30/21	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: **01/27/21 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/27/21 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sulfate	1030	60.0	mg/L	200	BEB0005	02/01/21	02/01/21	EPA 300.0	
Chloride	35.2	12.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **01/27/21 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	994	10.0	mg/L	1	BEA0314	01/28/21	01/28/21	SM2540C	

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

MW11
2101267-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 14:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEA0351	01/29/21	01/30/21	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: **01/27/21 14:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		114 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/27/21 14:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Sulfate	1020	60.0	mg/L	200	BEB0005	02/01/21	02/01/21	EPA 300.0	
Chloride	35.2	12.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **01/27/21 14:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	980	10.0	mg/L	1	BEA0314	01/28/21	01/28/21	SM2540C	

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

MW12
2101267-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BEA0351	01/29/21	01/30/21	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: **01/27/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/27/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sulfate	1020	60.0	mg/L	200	BEB0005	02/01/21	02/01/21	EPA 300.0	
Chloride	35.0	12.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **01/27/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	994	10.0	mg/L	1	BEA0314	01/28/21	01/28/21	SM2540C	

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Project Manager: Maggie Graham

Reported:
02/04/21 16:09

MW13
2101267-13 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 13:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BEA0351	01/29/21	01/30/21	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: **01/27/21 13:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		119 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/27/21 13:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sulfate	912	60.0	mg/L	200	BEB0005	02/01/21	02/01/21	EPA 300.0	
Chloride	32.2	12.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **01/27/21 13:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	996	10.0	mg/L	1	BEA0314	01/28/21	01/28/21	SM2540C	

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Reported:
02/04/21 16:09

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 BEA0351 - EPA 5030 Water MS

Blank (BEA0351-BLK1)

Prepared & Analyzed: 01/29/21

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	"							
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		105	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.0	20-170			
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3		104	21-167			

LCS (BEA0351-BS1)

Prepared & Analyzed: 01/29/21

Benzene	41.7	1.0	ug/l	33.3		125	51-132			
Toluene	43.0	1.0	"	33.3		129	51-138			
Ethylbenzene	38.8	1.0	"	33.3		116	58-146			
m,p-Xylene	76.3	2.0	"	66.7		114	57-144			
o-Xylene	40.4	1.0	"	33.3		121	53-146			
Naphthalene	35.6	1.0	"	33.3		107	70-130			
1,2,4-Trimethylbenzene	39.4	1.0	"	33.3		118	70-130			
1,3,5-Trimethylbenzene	37.4	1.0	"	33.3		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.3		102	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		103	21-167			

Matrix Spike (BEA0351-MS1)

Source: 2101277-01

Prepared & Analyzed: 01/29/21

Benzene	41.5	1.0	ug/l	33.3	ND	124	34-141			
Toluene	42.8	1.0	"	33.3	ND	128	27-151			
Ethylbenzene	40.0	1.0	"	33.3	ND	120	29-160			
m,p-Xylene	78.9	2.0	"	66.7	ND	118	20-166			
o-Xylene	41.4	1.0	"	33.3	ND	124	33-159			
Naphthalene	39.9	1.0	"	33.3	ND	120	70-130			
1,2,4-Trimethylbenzene	41.8	1.0	"	33.3	ND	125	70-130			
1,3,5-Trimethylbenzene	38.4	1.0	"	33.3	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		106	21-167			

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Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

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 BEA0351 - EPA 5030 Water MS

Matrix Spike Dup (BEA0351-MSD1)	Source: 2101277-01			Prepared & Analyzed: 01/29/21						
Benzene	41.8	1.0	ug/l	33.3	ND	125	34-141	0.744	30	
Toluene	42.3	1.0	"	33.3	ND	127	27-151	1.18	30	
Ethylbenzene	39.5	1.0	"	33.3	ND	118	29-160	1.43	30	
m,p-Xylene	77.5	2.0	"	66.7	ND	116	20-166	1.75	30	
o-Xylene	40.9	1.0	"	33.3	ND	123	33-159	1.12	30	
Naphthalene	38.6	1.0	"	33.3	ND	116	70-130	3.39	30	
1,2,4-Trimethylbenzene	32.1	1.0	"	33.3	ND	96.3	70-130	26.3	30	
1,3,5-Trimethylbenzene	38.1	1.0	"	33.3	ND	114	70-130	0.601	30	
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		106	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	21-167			

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Reported:
02/04/21 16:09

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BEB0005 - General Preparation

Blank (BEB0005-BLK1)

Prepared & Analyzed: 02/01/21

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BEB0005-BS1)

Prepared & Analyzed: 02/01/21

Sulfate	16.2	0.300	mg/L	15.0	108	90-110
Chloride	3.16	0.0600	"	3.00	105	90-110

Duplicate (BEB0005-DUP1)

Source: 2101285-01

Prepared & Analyzed: 02/01/21

Sulfate	151	0.300	mg/L	153	0.958	20
Chloride	169	0.0600	"	171	1.20	20

Matrix Spike (BEB0005-MS1)

Source: 2101285-01

Prepared & Analyzed: 02/01/21

Chloride	183	0.0600	mg/L	3.00	171	377	80-120	QM-02
Sulfate	192	0.300	"	15.0	153	261	80-120	QM-02

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Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BEA0314 - General Preparation

Blank (BEA0314-BLK1)

Prepared & Analyzed: 01/28/21

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BEA0314-DUP1)

Source: 2101221-02

Prepared & Analyzed: 01/28/21

Total Dissolved Solids 419 10.0 mg/L 418 0.0478 20

Summit Scientific

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Extraction Oil&Gas
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Project: Hiner 36
Project Number: 744.2101.01-446538
Project Manager: Maggie Graham

Reported:
02/04/21 16:09

Notes and Definitions

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

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