



Division of Environmental Testing

2115 N Scranton St Suite 3040A
Aurora, CO 80045
800-440-5184

October 16, 2023

4626 CR 65
Keenesburg, CO 80643
719-225-9833
ksingleton@h-2e.com

Project Manager : Kelsey Singleton
Project Name : Chevron & Plaffly Irrigation Wel
Project Number : Not Provided

Attached are the analytical results for Chevron & Plaffly Irrigation Well Not Provided received by Elevation Diagnostics, Division of Environmental Testing on October 09, 2023. This is associated with Elevation's number AA03297 .

The results were analyzed under the guidelines of various methods. These methods are identified in the report as follows: "SW" is referring to the EPA's SW-846 Compendium; "EPA" is referring to 40 CFR part 136; "HACH" is referring to a method which was validated by HACH®; "SM" is referring to a revision of the Standard Methods For the Examination of Water and Wastewater; and "ASTM" is referring to the standard test method set forth by ASTM International.

The analytical results in this report apply specifically to the samples listed in the attached Chain of Custody. This report may only be duplicated in full.

Any deviations to sample integrity, method specifications, or Elevation Diagnostics's standard operating procedures are documented in the report below.

Please contact us for any questions or comments concerning the content of this report.

Thank you,

Elevation Diagnostics, Division of Environmental Testing

Kristen Gracom
Laboratory Director
CSO,CCO

Imigation Well #1

Table 915-1 (continued)

Contaminant of Concern	Concentrations	
	Residential Soil Screening Level Concentrations (mg/kg) ⁷	Protection of Groundwater Soil Screening Level Concentrations (mg/kg) Risk Based (R) and MCL Based (M) ^{7,8}
Organic Compounds in Soils^{5, 9, 10}		
benzene	1.2	0.0026 (M)
toluene	490	0.69 (M)
ethylbenzene	5.8	0.78 (M)
xylenes (sum of o-, m- and p- isomers = total xylenes)	58	9.9 (M)
1,2,4-trimethylbenzene	30	0.0081 (R)
1,3,5-trimethylbenzene	27	0.0087 (R)
acenaphthene	360	0.55 (R)
anthracene	1800	5.8 (R)
benz(a)anthracene	1.1	0.011 (R)
benzo(b)fluoranthene	1.1	0.3 (R)
benzo(k)fluoranthene	11	2.9 (R)
benzo(a)pyrene	0.11	0.24 (M)
chrysene	110	9 (R)
dibenzo(a,h)anthracene	0.11	0.096 (R)
fluoranthene	240	8.9 (R)
fluorene	240	0.54 (R)
indeno(1,2,3-cd)pyrene	1.1	0.98 (R)
1-methylnaphthalene	18	0.006 (R)
2-methylnaphthalene	24	0.019 (R)
naphthalene	2	0.0038 (R)
pyrene	180	1.3 (R)
Metals in Soils^{1, 6, 9, 10, 11}		
arsenic	0.68	0.29 (M)
barium	15000	82 (M)
cadmium	71	0.38 (M)
chromium (VI)	0.3	0.00067 (R)
copper	3100	46 (M)
lead	400	14 (M)
nickel	1500	26 (R)
selenium	390	0.26 (M)
silver	390	0.8 (R)
zinc	23000	370 (R)



Division of Environmental Testing

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Report Date : 10/16/2023

Report Time : 16:32

FINAL RESULTS REPORT

REPORT TO
4626 CR 65 Keenesburg, CO 80643 719-225-9833 ksingleton@h-2e.com

Project Manager : Kelsey Singleton
Project Name : Chevron & Plaffly Irrigation Wel
Project Number : Not Provided

Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
AA03297-1	Irrigation Well #1						
	Collected : 10/06/2023						
		Anions - Chloride					
		10/11/2023 12:20		3.6371	ppm		EPA 300.0
		Conductivity					
		10/09/2023 15:19		375	µS/cm	20	EPA 9050A
		pH, Water					
		10/09/2023 13:34		8.19	S.U.	0.01	EPA9040C, EPA150.1
		pH, Water Temperature					
		10/09/2023 13:34		22.3	°C		
AA03297-2	Irrigation Well #1						
	Collected : 10/06/2023						
		Total Metals, Aqueous - Copper					
		10/10/2023 15:24 2.00		85.642	µg/L	1.000	EPA3010A&3005A
		Total Metals, Aqueous - Sodium					
		10/10/2023 15:24 10.00		23714.499	µg/L	20.000	EPA3010A&3005A
		Total Metals, Aqueous - Magnesium					
		10/10/2023 15:24 10.00		10841.740	µg/L	20.000	EPA3010A&3005A
		Total Metals, Aqueous - Nickel					
		10/10/2023 15:24 2.00		0.598	µg/L	0.250	EPA3010A&3005A
		Total Metals, Aqueous - Selenium					
		10/10/2023 15:24 2.00		0.524	µg/L	0.500	EPA3010A&3005A
		Total Metals, Aqueous - Zinc					
		10/10/2023 15:24 2.00		99.523	µg/L	10.000	EPA3010A&3005A
		Total Metals, Aqueous - Arsenic					
		10/10/2023 15:24 2.00		2.217	µg/L	0.100	EPA3010A&3005A
		Total Metals, Aqueous - Barium					
		10/10/2023 15:24 2.00		78.464	µg/L	0.250	EPA3010A&3005A



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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
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		Total Metals, Aqueous - Silver					
10/10/2023	15:24	2.00		<0.100	µg/L	0.100	EPA3010A&3005A
		Total Metals, Aqueous - Lead					
10/10/2023	15:24	2.00		12.487	µg/L	0.250	EPA3010A&3005A
		Total Metals, Aqueous - Calcium					
10/10/2023	15:24	10.00		4098.646	µg/L	25.000	EPA3010A&3005A
		Total Metals, Aqueous - Cadmium					
10/10/2023	15:24	2.00		<0.250	µg/L	0.250	EPA3010A&3005A

AA03297-3 Irrigation Well #1
 Collected : 10/06/2023 00:00

		Semivolatile Organic Compounds - Acenaphthene					
10/16/2023	14:17			Not Detected	µg/L	1.00	EPA 8270
		Semivolatile Organic Compounds - Benzo(a)pyrene					
10/16/2023	14:17			Not Detected	µg/L	1.00	EPA 8270
		Semivolatile Organic Compounds - Chrysene					
10/16/2023	14:17			Not Detected	µg/L	1.00	EPA 8270
		Semivolatile Organic Compounds - Dibenz(a,h)anthracene					
10/16/2023	14:17			Not Detected	µg/L	1.00	EPA 8270
		Semivolatile Organic Compounds - Fluoranthene					
10/16/2023	14:17			Not Detected	µg/L	1.00	EPA 8270
		Semivolatile Organic Compounds - Anthracene					
10/16/2023	14:17			Not Detected	µg/L	1.00	EPA 8270
		Semivolatile Organic Compounds - Benzo(a)anthracene					
10/16/2023	14:17			Not Detected	µg/L	1.00	EPA 8270
		Semivolatile Organic Compounds - Indeno(1,2,3-cd)pyrene					
10/16/2023	14:17			Not Detected	µg/L	1.00	EPA 8270
		Semivolatile Organic Compounds - 1-Methylnaphthalene					
10/16/2023	14:17			<MDL	µg/L	1.00	EPA 8270



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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
		Semivolatile Organic Compounds - 2-Methylnaphthalene					
		10/16/2023 14:17		<MDL	µg/L	1.00	EPA 8270
		Semivolatile Organic Compounds - Naphthalene					
		10/16/2023 14:17		Not Detected	µg/L	1.00	EPA 8270
		Semivolatile Organic Compounds - Pyrene					
		10/16/2023 14:17		Not Detected	µg/L	1.00	EPA 8270
		Semivolatile Organic Compounds - Fluorene					
		10/16/2023 14:17		Not Detected	µg/L	1.00	EPA 8270
		Semivolatile Organic Compounds - Benzo(k)fluoranthene					
		10/16/2023 14:17		Not Detected	µg/L	1.00	EPA 8270
		Semivolatile Organic Compounds - Benzo(b)fluoranthene					
		10/16/2023 14:17		Not Detected	µg/L	1.00	EPA 8270
AA03297-4	Irrigation Well #1						
	Collected : 10/06/2023 00:00						
		Volatile Organic Compounds - o-Xylene					
		10/10/2023 13:21		Not Detected	µg/L	2.00	EPA 8260
		Volatile Organic Compounds - m&p-Xylene					
		10/10/2023 13:21		Not Detected	µg/L	2.00	EPA 8260
		Volatile Organic Compounds - 1,3,5-Trimethylbenzene					
		10/10/2023 13:21		4.11	µg/L	1.00	EPA 8260
		Volatile Organic Compounds - 1,2,4-Trimethylbenzene					
		10/10/2023 13:21		4.23	µg/L	1.00	EPA 8260
		Volatile Organic Compounds - Toluene					
		10/10/2023 13:21		<0.70	µg/L	0.70	EPA 8260
		Volatile Organic Compounds - Ethyl benzene					
		10/10/2023 13:21		Not Detected	µg/L	1.00	EPA 8260
		Volatile Organic Compounds - Benzene					
		10/10/2023 13:21		Not Detected	µg/L	0.72	EPA 8260



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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
Volatile Organic Compounds - Xylenes, total							
		10/10/2023 13:21		Not Detected	µg/L	4.00	EPA 8260
AA03297-5 Irrigation Well #1							
Collected : 10/06/2023 00:00							
Chromium VI, Dissolved							
		10/10/2023 13:35		<0.01	ppb	0.00731	EPA 7199 & SM 3500 Cr-C



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Sample ID	Customer ID	Analyte Name Analysis Start	Dilution	Result	Units	Reporting Limit	Method Reference
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Qualifier	Explanation
H1	Sample received outside of regulatory holding time.
H2	Sample analyzed outside of regulatory holding time due to a laboratory error.
P1	Sample received outside temperature requirements, 0-6°C.
P2	Sample received unpreserved.
P3	Broken or leaking sample container.
P4	Sample improperly collected
P5	Sample incorrectly preserved
B	The sample analyte is found in the associated blank.
B1	Blank failed high, indicating possible high bias in sample results.
B2	Blank failed low, indicating possible low bias in sample results.
MS	Matrix Spike / Matrix Spike Duplicate recovery and/or RSD limit exceeded, indicating potential matrix interference.
QC	Associated batch quality control was outside the acceptable range
D1	Duplicate RPD limit exceeded due to low sample concentration.
D2	Duplicate RPD limit exceeded due to matrix interference.
S	Surrogate recovery failed, indicating potential matrix interference.
RL1	Reporting limits raised due to matrix interference.
RL2	Reporting limits raised due to limited sample.
U	Sample result less than method detection limit.
J	Sample result less than reporting limit but higher than method detection limit.
EST	The concentration indicated has been estimated due to high analyte content.
E	Electronic loss or corruption of data.
I	Subcontracted sample

PFAFFLY 1-12 15907-F KR10803 39.1099352 -102.5163317

Irrigation Water Well - Active - Right Angle Gear Drive Serial No. S100 84588 Expansion Tank - No label - Point N