

Lab #: 930108

Job #: 59276

CoreTrac: IS-69033

Sample Name: BW_Martin_47218_F

Company: Oxy USA Inc.

Container: 125ml Plastic Bottle

Field/Site Name:

BWSE/GWA_Buffalo_Ridge_Water_Well

Location: NWSW_12_1N_66W

Formation: Q3

Sampling Point: 753954

Date Sampled: 07/16/2024 09:42

Date Received:
07/17/2024

Date Reported:
08/07/2024

δ D of water	-102.2‰ relative to VSMOW
δ ¹⁸ O of water	-13.45‰ relative to VSMOW
Tritium content of water	na
δ ¹³ C of DIC	-9.3‰ relative to VPDB
¹⁴ C content of DIC	na
δ ¹⁵ N of nitrate	na
δ ¹⁸ O of nitrate	na
δ ³⁴ of sulfate	na
δ ¹⁸ O of sulfate	na
Vacuum Distilled? *	No

Remarks:

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nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water

Lab #: 930151

Job #: 59278

CoreTrac: IS-69033

Sample Name: BW_Martin_47218_F

Company: Oxy USA Inc.

Container: IsoFlask

Field/Site Name:

BWSE/GWA_Buffalo_Ridge_Water_Well

Location: NWSW_12_1N_66W

Formation/Depth: Q3

Sampling Point: 753954

Date Sampled: 07/16/2024 09:42

Date Received:
07/17/2024

Date Reported:
08/14/2024

Component	Chemical mol%	$\delta^{13}\text{C}$ ‰	δD ‰	$\delta^{18}\text{O}$ ‰	Dissolved gas cc/L	Dissolved gas ppm
Carbon Monoxide	nd					
Helium	na					
Hydrogen	nd					
Argon	0.839				0.31	0.51
Oxygen	7.26					
Nitrogen	43.48				15	17
Carbon Dioxide	1.24					
Methane	47.13	-71.08	-233.6		17	11
Ethane	0.0484				0.019	0.023
Ethylene	nd					
Propane	nd				<0.0002	<0.0004
Propylene	nd					
Iso-butane	nd					
N-butane	nd					
Iso-pentane	nd					
N-pentane	nd					
Hexanes +	nd					

Remarks:

Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.83

*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

Insufficient C2-C5 concentrations for isotopic analysis.

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