

TABLE 1
ACCUTEST ANALYTICAL RESULTS
12735 County Road 34, Permit #15631
Platteville, Colorado
Sample ID: 7_3N_66W_Henrickson

Analyte, Units	2/6/2019 Result	5/9/2019 Result	7/25/2019 Result	10/22/2019 Result
Alkalinity, Bicarbonate, mg/L	394	413	422	460
Alkalinity, Carbonate, mg/L	11.2	8.0	5.1	ND
Alkalinity, Total, mg/L	406	421	427	460
Bacteria, Iron Reducing, CFU/mL	2,200	9,000	35,000	9,000
Bacteria, Slime Forming, CFU/mL	500	440,000	440,000	440,000
Bacteria, Sulfate Reducing, CFU/mL	6,000	27,000	27,000	6,000
Barium, mg/L	0.0742	0.0696	0.0629	0.0703
Benzene, ug/L	2.5	2.5	ND	ND
Boron, mg/L	0.104	0.108	0.107	0.0995
Bromide, mg/L	0.48	0.48	0.50	0.51
Calcium, mg/L	4.18	3.27	2.99	3.62
Chloride, mg/L	47.2	47.8	48.2	47.7
Diesel Range Organics, mg/L	ND	ND	ND	ND
Ethane, mg/L	0.734	0.0028	0.501	ND
Ethylbenzene, ug/L	ND	ND	ND	ND
Fluoride, mg/L	1.7	1.7	1.8	1.8
Gasoline Range Organics, mg/L	0.0727	0.0868	0.105	0.0613
Iron, mg/L	ND	0.0176	0.0616	0.0159
Magnesium, mg/L	0.794	0.762	0.698	0.717
Manganese, mg/L	0.0143	0.0122	0.0075	0.0108
Methane, mg/L	5.97	7.16	4.81	6.17
Nitrogen, Nitrate, mg/L	ND	ND	ND	ND
Nitrogen, Nitrite, mg/L	ND	ND	ND	ND
pH, Standard Units	8.50	8.52	8.41	8.52
Phosphorus, Total, mg/L	0.023	0.038	0.027	0.027
Propane, mg/L	0.413	ND	0.165	ND
Potassium, mg/L	1.73	1.26	1.44	1.50
Selenium, mg/L	ND	ND	0.0015	ND
Sodium, mg/L	214	215	201	218
Specific Conductivity, μ mhos/cm	873	883	906	838
Strontium, mg/L	0.130	0.115	0.0954	0.113
Sulfate, mg/L	2.5	ND	ND	ND
Toluene, ug/L	ND	1.0	ND	ND
Total Dissolved Solids, mg/L	533	536	564	558
Xylene, Total, ug/L	ND	ND	ND	ND

Notes:

ND (RL) = Non-detect (reporting limit)

Lab qualifiers (i.e. letters next to result) are defined in the lab report

TABLE 2
ISOTECH SIW RESULTS
12735 County Road 34, Permit #15631
Platteville, Colorado
Sample ID: 7_3N_66W_Henrickson

Analyte, Units	2/6/2019 Result	5/9/2019 Result	7/25/2019 Result	10/22/2019 Result
dD of water, ‰ relative to VSMOW	-109.0	-108.6	-108.2	-108.9
d18O of water, ‰ relative to VSMOW	-14.40	-14.25	-14.19	-14.26
Tritium content of water, ‰	na	na	na	na
d13C of DIC, ‰ relative to VPDB	-12.6	-12.1	-12.4	-12.0
14C content of DIC, ‰	na	na	na	na
d15N of nitrate, ‰	na	na	na	na
d18O of nitrate, ‰	na	na	na	na
d34S of sulfate, ‰	na	na	na	na
d18O of sulfate, ‰	na	na	na	na

Notes:

Isotopic analysis conducted at Isotech Laboratories Inc.

na = not analyzed

TABLE 3
ISOTECH NG4 RESULTS
12735 County Road 34, Permit #15631
Platteville, Colorado
Sample ID: 7_3N_66W_Henrickson

Analyte, Units	2/6/2019 Result	5/9/2019 Result	7/25/2019 Result	10/22/2019 Result
Carbon Monoxide, mol %	nd	nd	nd	nd
Helium, mol %	na	na	na	na
Hydrogen, mol %	nd	nd	nd	nd
Argon, mol %	0.929 (0.70 mg/L)	0.856 (0.62 mg/L)	0.737 (0.47 mg/L)	0.917 (0.61 mg/L)
Oxygen, mol %	1.01	1.13	1.94	1.57
Nitrogen, mol %	45.82 (22 mg/L)	46.62 (20 mg/L)	34.95 (14 mg/L)	47.70 (19 mg/L)
Carbon Dioxide, mol %	0.93	0.60	0.78	0.86
Methane, mol %	47.85 (14 mg/L)	47.87 (14 mg/L)	56.04 (14 mg/L)	46.38 (12 mg/L)
Ethane, mol %	2.36 (1.4 mg/L)	2.03 (1.2 mg/L)	3.72 (1.9 mg/L)	1.88 (1.0 mg/L)
Ethylene, mol %	nd	nd	nd	nd
Propane, mol %	0.858 (0.72 mg/L)	0.704 (0.58 mg/L)	1.43 (1.0 mg/L)	0.537 (0.40 mg/L)
Propylene, mol %	nd	0.0003	nd	0.0011
Iso-butane, mol %	0.0764	0.0623	0.127	0.0580
N-butane, mol %	0.127	0.0978	0.219	0.0711
Iso-pentane, mol %	0.0187	0.0134	0.0298	0.0134
N-pentane, mol %	0.0117	0.0079	0.0195	0.0058
Hexanes + , mol %	0.0055	0.0038	0.0088	0.0040

Notes:

Isotopic analysis conducted at Isotech Laboratories, Inc.

^a Chemical compositions are normalized to 100% (Mol. % is approximately equal to Vol. %).

Additional information provided in attached lab report.

nd = not detected

na = not analyzed