

TABLE 1
ACCUTEST ANALYTICAL RESULTS
13159 County Road 39, Permit #78801-F-R
Platteville, Colorado
Sample ID: NGL 78801-F-R

Analyte, Units	1/26/2017 Result	4/24/2017 Result	7/24/2017 Result	11/15/2017 Result
Alkalinity, Bicarbonate, mg/L	504	571	494	549
Alkalinity, Carbonate, mg/L	ND	ND	6.2	ND
Alkalinity, Total, mg/L	504	571	501	549
Bacteria, Iron Reducing, CFU/mL	74,500	74,500	74,500	74,500
Bacteria, Slime Forming, CFU/mL	66,500	ND	ND	ND
Bacteria, Sulfate Reducing, CFU/mL	359,000	700	1,200	5,000
Barium, mg/L	0.0407	0.0626	0.0443	0.0435
Benzene, ug/L	ND	ND	ND	ND
Boron, mg/L	0.203	0.182	0.214	0.173
Bromide, mg/L	1.1	2.0	0.90	2.2
Calcium, mg/L	24.1	114	19.7	103
Chloride, mg/L	214	544	153	628
Diesel Range Organics, mg/L	ND	ND	ND	ND
Ethane, mg/L	0.100	0.236	0.262	0.0973
Ethylbenzene, ug/L	ND	ND	ND	ND
Fluoride, mg/L	1.3	ND	1.6	0.78
Gasoline Range Organics, mg/L	ND	ND	ND	ND
Iron, mg/L	ND	0.0279	ND	0.0204
Magnesium, mg/L	7.97	32.5	5.99	35.6
Manganese, mg/L	0.0231	0.0580	0.0131	0.0620
Methane, mg/L	4.92	7.96	7.00	3.04
Nitrogen, Nitrate, mg/L	ND	ND	ND	ND
Nitrogen, Nitrite, mg/L	ND	ND	ND	ND
pH, Standard Units	8.07	7.49	8.34	7.96
Phosphorus, Total, mg/L	ND	0.013	0.047	ND
Propane, mg/L	0.0686	0.131	0.167	0.0484
Potassium, mg/L	3.58	10.9	3.07	9.44
Selenium, mg/L	ND	ND	ND	0.0011
Sodium, mg/L	458	895	424	961
Specific Conductivity, μ mhos/cm	2,010	4,220	1,500	4,990
Strontium, mg/L	0.627	2.40	0.516	2.72
Sulfate, mg/L	284	1,030	169	1,230
Toluene, ug/L	ND	ND	ND	ND
Total Dissolved Solids, mg/L	1,340	3,130	1,070	3,040
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
13159 County Road 39, Permit #78801-F-R
Platteville, Colorado
Sample ID: NGL 78801-F-R

Analyte, Units	1/26/2017 Result	4/24/2017 Result	7/24/2017 Result	11/15/2017 Result
dD of water, ‰ relative to VSMOW	-104.0	-105.2	-104.8	-104.5
d18O of water, ‰ relative to VSMOW	-13.60	-13.46	-13.69	-13.37
Tritium content of water, ‰	na	na	na	na
d13C of DIC, ‰ relative to VPDB	-14.3	-14.7	-14.7	-15.4
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
13159 County Road 39, Permit #78801-F-R
Platteville, Colorado
Sample ID: NGL 78801-F-R

Analyte, Units	1/26/2017 Result	4/24/2017 Result	7/24/2017 Result	11/15/2017 Result
Carbon Monoxide, mol %	nd	nd	nd	nd
Helium, mol %	na	na	na	na
Hydrogen, mol %	nd	nd	nd	nd
Argon, mol %	0.582 (0.42 mg/L)	0.600 (0.49 mg/L)	0.520 (0.37 mg/L)	0.993 (0.51 mg/L)
Oxygen, mol %	1.67	1.55	1.11	18.96
Nitrogen, mol %	30.88 (14 mg/L)	34.46 (17 mg/L)	27.87 (12 mg/L)	55.21 (17 mg/L)
Carbon Dioxide, mol %	2.93	8.26	1.78	8.22
Methane, mol %	62.88 (18 mg/L)	54.03 (18 mg/L)	66.89 (19 mg/L)	16.27 (3.3 mg/L)
Ethane, mol %	0.629 (0.37 mg/L)	0.713 (0.48 mg/L)	1.15 (0.67 mg/L)	0.235 (0.098 mg/L)
Ethylene, mol %	nd	nd	nd	nd
Propane, mol %	0.289 (0.23 mg/L)	0.275 (0.25 mg/L)	0.493 (0.39 mg/L)	0.0767 (0.044 mg/L)
Propylene, mol %	nd	nd	nd	nd
Iso-butane, mol %	0.0524	0.0431	0.0764	0.0173
N-butane, mol %	0.0643	0.0473	0.0823	0.0159
Iso-pentane, mol %	0.0119	0.0102	0.0147	0.0032
N-pentane, mol %	0.0078	0.0056	0.0070	0.0018
Hexanes + , mol %	0.0022	0.0019	0.0017	0.0009

Notes:

Isotopic analysis conducted at Isotech Laboratories, Inc.

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

nd = not detected

na = not analyzed