

TABLE 1
ACCUTEST ANALYTICAL RESULTS
13159 County Road 39, Permit #272956
Platteville, Colorado
Sample ID: Sierra 272956

Analyte, Units	1/26/2017 Result
Alkalinity, Bicarbonate, mg/L	220
Alkalinity, Carbonate, mg/L	ND
Alkalinity, Total, mg/L	220
Bacteria, Iron Reducing, CFU/mL	500
Bacteria, Slime Forming, CFU/mL	ND
Bacteria, Sulfate Reducing, CFU/mL	ND
Barium, mg/L	0.0080
Benzene, ug/L	ND
Boron, mg/L	0.117
Bromide, mg/L	1.4
Calcium, mg/L	63.7
Chloride, mg/L	173
Diesel Range Organics, mg/L	ND
Ethane, mg/L	0.00096
Ethylbenzene, ug/L	ND
Fluoride, mg/L	0.52
Gasoline Range Organics, mg/L	ND
Iron, mg/L	0.0203
Magnesium, mg/L	13.2
Manganese, mg/L	0.0730
Methane, mg/L	0.103
Nitrogen, Nitrate, mg/L	ND
Nitrogen, Nitrite, mg/L	ND
pH, Standard Units	7.65
Phosphorus, Total, mg/L	ND
Propane, mg/L	0.0011
Potassium, mg/L	6.02
Selenium, mg/L	ND
Sodium, mg/L	809
Specific Conductivity, μ mhos/cm	3,570
Strontium, mg/L	1.56
Sulfate, mg/L	1,480
Toluene, ug/L	ND
Total Dissolved Solids, mg/L	2,690
Xylene, Total, ug/L	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 #272956
Platteville, Colorado
Sample ID: Sierra 272956

Analyte, Units	1/26/2017 Result
dD of water, ‰ relative to VSMOW	-108.7
d18O of water, ‰ relative to VSMOW	-13.99
Tritium content of water, ‰	na
d13C of DIC, ‰ relative to VPDB	-20.8
14C content of DIC, ‰	na
d15N of nitrate, ‰	na
d18O of nitrate, ‰	na
d34S of sulfate, ‰	na
d18O of sulfate, ‰	na

Notes:

Isotopic analysis conducted at Isotech Laboratories Inc.

na = not analyzed

TABLE 3
ISOTECH NG4 RESULTS
13159 County Road 39, Permit #272956
Platteville, Colorado
Sample ID: Sierra 272956

Analyte, Units	1/26/2017 Result
Carbon Monoxide, mol %	nd
Helium, mol %	na
Hydrogen, mol %	nd
Argon, mol %	1.40 (1.1 mg/L)
Oxygen, mol %	0.95
Nitrogen, mol %	93.57 (46 mg/L)
Carbon Dioxide, mol %	2.09
Methane, mol %	1.98 (0.64 mg/L)
Ethane, mol %	0.0075 (0.0049 mg/L)
Ethylene, mol %	nd
Propane, mol %	nd
Propylene, mol %	nd
Iso-butane, mol %	0.0003
N-butane, mol %	nd
Iso-pentane, mol %	nd
N-pentane, mol %	nd
Hexanes + , mol %	nd

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