

# ANALYSIS FOR WATERBORNE PARTICULATES

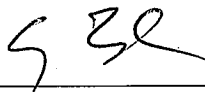
CH Diagnostic and Consulting Service, Inc.  
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P: (970) 532-2078 F: (970) 532-3358

Invoice 20140180

Customer 20001144  
AAA Operations, Inc.  
48 Millcreek Rd  
P.O. Box 134  
Dumont, CO 80436  
PWSID# CO 0159119

## Laboratory Information

UPS; 5/21/2014; 0900 Hrs; 8.0°C; Wound  
Results submitted by:



Sample Identification: Alpanse Water Plant, Well #1

Sample Information: SOURCE: Drilled Well; 1/8 mile from surface water; 50' deep; Unchlorinated; pH 7.29 → pH 7.26;  
5.4°C → 5.3°C; 0.24 NTU → 0.22 NTU, TREATMENT: Disinfection-Only, DISINFECTION: Post-chlorination

Sample Date & Time: 5/20/2014 07:30 AM → 5/20/2014

Sampler: Shay Sims

Amount: 1911.425 L (505 gal)

Filter Color: Light rust

Filter Type: Polypropylene wound cartridge

Date/Time Eluted: 5/21/2014 01:15 PM

Centrifugate: 0.00262 mL/100 L

## RESULTS OF MICROSCOPIC PARTICULATE ANALYSIS

Amount of sample assayed: 11 L

Amorphous Debris	inorganic precipitate, clay (1-2 µm), silt (2-50 µm), aggregates
Algae	ND
Diatoms	ND
Plant debris	ND
Rotifers	ND
Nematodes	ND
Pollen (pine)	ND
Ameba	ND
Ciliates	ND
Colorless Flagellates	ND
Crustaceans	ND
Other Arthropods	ND
Other	ND

*Giardia* and *Coccidia* are none detected (ND) by MPA unless reported under "Other".

This sample was analyzed for particulates following the Environmental Protection Agency Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA). 1992. USEPA, Port Orchard, WA, EPA 910/9-92-029. All limitations stated in the methods apply. If HV capsule or foam filter was received, method was modified by filtering sample through a Pall Envirochek™ HV capsule or IDEXX Filta-Max™ filter at the sample site. If *Giardia* and *Cryptosporidium* Analysis was also performed, particulate extraction was modified.

COMMENTS: Score: 0-Low Risk per EPA Consensus Method referenced above.

## LABORATORY ANALYTICAL REPORT

**Customer 20001144**  
AAA Operations, Inc.  
48 Mill Creek Rd., PO Box 134  
Dumont, CO 80436  
**PWSID #: CO 0159719**

**Invoice Number: 20140180**  
**Received Date & Time: 5/21/2014 9:00AM**  
**Arrival Temperature: 6.4°C**

**Sample Identification:** Surface Water

**Sample Information:** Source: River

**Sample Date & Time:** 5/20/2014 4:30PM

**Sampler:** Shay Sims

**Volume Sampled:** 100 mL

**Sample Type:** Grab

**Processing Date & Time:** 5/21/2014 3:12PM

**Analytical Method:** Evaluating plant performance with endospores. J. AWWA 88(9)

**Start Date & Time:** 5/21/2014 5:02PM

**Amount Analyzed:** 10 mL

**Stop Date & Time:** 5/22/2014 5:02PM

**Dilution factor:** N/A

### Analytical Results:

**Endospores:** 70 CFU/100 mL

**Reporting Limit:** 1.0

This sample was analyzed for the presence of Aerobic Endospores by the method outlined in the following article:  
Rice, Eugene W., Kim R. Fox, Richard J. Miltner, Darren A. Lytle and Clifford H. Johnson. 1996. Evaluating plant performance with edospores. J. AWWA 88(9): 122-130.



Report Approved By

## LABORATORY ANALYTICAL REPORT

**Customer 20001144**  
AAA Operations, Inc.  
48 Mill Creek Rd., PO Box 134  
Dumont, CO 80436  
**PWSID#: CO 0159719**

**Invoice Number: 20140180**  
**Received Date & Time: 5/21/2014 9:00AM**  
**Arrival Temperature: 8.2°C**

**Sample Identification:** Alpensee Water Plant, Well #1

**Sample Information:** Source: Drilled Well; 1/8 mile from surface water; 50' deep  
pH 7.26, 5.3°C, 0.22 NTU

**Sample Date & Time:** 5/20/2014 4:15PM

**Sampler:** Shay Sims

**Volume Sampled:** 100 mL

**Sample Type:** Grab

**Processing Date & Time:** 5/21/2014 3:12PM

**Analytical Method:** Evaluating plant performance with endospores. J. AWWA 88(9)

**Start Date & Time:** 5/21/2014 5:02PM

**Amount Analyzed:** 100 mL

**Stop Date & Time:** 5/22/2014 5:02PM

**Dilution factor:** N/A

### Analytical Results:

**Endospores:** <1 CFU/100 mL

**Reporting Limit:** 1.0

This sample was analyzed for the presence of Aerobic Endospores by the method outlined in the following article:  
Rice, Eugene W., Kim R. Fox, Richard J. Miltner, Darren A. Lytle and Clifford H. Johnson. 1996. Evaluating plant performance with endospores. J. AWWA 88(9): 122-130.

  
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**Report Approved By**