

ANALYSIS FOR WATERBORNE PARTICULATES

CH Diagnostic and Consulting Service, Inc.
512 5th Street, Berthoud, CO 80513
P: (970) 532-2078 F: (970) 532-3358

Invoice 20140614

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

Laboratory Information

UPS; 10/30/2014; 1130 Hrs; 10.2°C; Wound
Results submitted by:

RD 11/11/14

Sample Identification: Alpengsee, Pump Gallery, Well #2

Sample Information: SOURCE: Drilled Well; 1/4 mile from surface water; 50' deep; Unchlorinated; pH 7.77 → pH 7.80; 8.9°C → 8.8°C, TREATMENT: Disinfection Only, DISINFECTION: Post-chlorination

Sample Date & Time: 10/28/2014 12:00 PM → 10/29/2014 08:10 AM

Sampler: Shay Sims

Amount: 4655.55 L (1230 gal)

Filter Color: Off white

Filter Type: Polypropylene wound cartridge

Date/Time Eluted: 10/30/2014 02:45 PM

Centrifugate: 0.00215 mL/100 L

RESULTS OF MICROSCOPIC PARTICULATE ANALYSIS

Amount of sample assayed: 28 L

Amorphous Debris	clay (1-2 µm), inorganic precipitate, 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 Filti-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 0159119

Invoice Number: 20140614
Received Date & Time: 10/30/2014 11:30AM
Arrival Temperature: 3.2°C

Sample Identification: Alpensee Water Plant, Pump Gallery, Well #2

Sample Information: Source: Drilled Well; 50' deep; 1/4 mile from surface water; Unchlorinated

Sample Date & Time: 10/29/2014 8:30AM **Sampler:** Shay Sims

Volume Sampled: 100 mL **Sample Type:** Grab

Processing Date & Time: 10/30/2014 3:17PM

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

Start Date & Time: 10/30/2014 5:15PM **Amount Analyzed:** 100 mL
Stop Date & Time: 10/31/2014 5:15PM

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.

RD 11/11/14

Report Approved By

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AAA Operations, Inc.
48 Mill Creek Rd., PO Box 134
Dumont, CO 80436
PWSID #: CO 0159119

Invoice Number: 20140614
Received Date & Time: 10/30/2014 11:30AM
Arrival Temperature: 3.6°C

Sample Identification: Alpensee, Dillon Reservoir	
Sample Information: Source: Reservoir	
Sample Date & Time: 10/29/2014 9:15AM	Sampler: Shay Sims
Volume Sampled: 100 mL	Sample Type: Grab
Processing Date & Time: 10/30/2014 3:17PM	

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

Start Date & Time: 10/30/2014 5:15PM **Amount Analyzed:** 10 mL
Stop Date & Time: 10/31/2014 5:15PM

Dilution factor: N/A

Analytical Results:

Endospores: 210 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.

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LABORATORY ANALYTICAL REPORT

Customer 20001144
AAA Operations, Inc.
48 Millcreek Rd.
Dumont, CO 80436
PWSID: CO 0159119

Invoice Number: 20140614
Received Date & Time: 10/30/2014 11:30AM
Arrival Temperature: 2.8°C

Sample Identification: Alpensee, Pump Station, Well #2

Sample Information: Source: Drilled Well; 1/4 mile from surface water; 50' deep;

Unchlorinated

Sample Date & Time: 10/29/2014 8:50AM

Sampler: Shay Sims

Volume Sampled: 100ml

Sample Type: Grab

Processing Date & Time: 10/30/2014 12:40PM

Analytical Method: 9223B, IDEXX Colilert® with QuantiTray® 2000

Start Date & Time: 10/30/2014 12:40PM

Amount Analyzed: 100ml

Stop Date & Time: 10/31/2014 12:40PM

Additional Start Date & Time: N/A

Dilution factor: N/A

Additional Stop Date & Time: N/A

Analytical Results:

***E. coli* coliform:** 0 MPN/100ml

Analyte Reporting Limit: 1.0

Coliform bacteria: 0 100ml

This sample was analyzed for the presence of *Escherichia coli* (*E. coli*) by the method outlined in: Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998, 9223 B, Enzyme Substrate Test. All limitations stated in the method apply.


Report Approved By

Title

Date

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