

Most Probable Number (MPN)

Coliform/E.coli

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Inspector:	AssuredBio Labs	Date Collected:	2/10/2020
Project Name:	FHA/VA Water Test	Date Received:	2/10/2020
Project Number:	1	Date Reported:	2/11/2020
Assured Bio Identifier:	AB021020-1	Analyst(s):	J. Wilder

Selected References

Food and Drug Administration. 1998. Bacteriological Analytical Manual. Appendix 2. Eighth Edition, Revision A. Silver Spring, Maryland

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Methods of Analysis

Assured Bio Labs uses the following methods for analysis: CD 137 MPN

Abbreviations

BDL – Below Detectable Limits, UL – Upper Limit, LL – Lower Limit

Reporting Limits

Method Detection Limit: The American Industrial Hygiene Association defines this term in AIHA LAP, LLC Policy Document – Module 9 as "The minimum concentration of an analyte that, in a given matrix and with a specific method, has a 99 percent probability of being identified, qualitatively or quantitatively measured, and reported to be greater than zero."

Reporting Limit: The American Industrial Hygiene Association defines this term in AIHA LAP, LLC Policy Document – Module 9 as "The lowest of analyte in a sample that can be reported with a defined, reproducible level of certainty."

Additional Comments

The analytical data included in this report reflect only the conditions of the material sampled and submitted to the laboratory for analysis at the time of collection. The results included in this report may not be used for past or future environmental conditions. The reporting limit(s) and result(s) are calculated based on the sampling information (i.e. collection volume, area, mass, etc.) provided by the customer as noted on the Chain of Custody. The results apply to the sample(s) as received.

Serial dilution tests measure the concentration of a target microbe in a sample with an estimate called the most probable number (MPN). The results are reported as the Most Probable Number per milliliter (MPN/ml) with the upper and lower 95% confidence limits provided per sample. The MPN should be judged as an estimate colony-forming units (CFUs) instead of individual bacteria. Samples with less than one positive well are reported as below detectable limits with a 95% confidence interval of <1 to <12 MPN/ml.

The results obtained from samples submitted to Assured Bio Labs, LLC depend greatly upon conditions at the time of culture. Conditions which have been found to effect sample results include, but are not limited to, temperature, humidity, growth media, unique growth requirements, sample volume, light exposure, incubation time, and sample overloading.

Assured Bio Identifier: AB021020-1-1
Sample ID: 1
Description: Well Water
Sample Condition: Intact

Minimum Report Limit: 1 MPN/mL
Sample Type: Water
Sample Volume: 1 mL
Reporting Limit: 2 MPN/mL

	<u>MPN</u>	<u>95% UL</u>	<u>95% LL</u>
Coliform Results (MPN/ml):	18	46	7
<i>E. coli</i> Results (MPN/ml):	Below Detectable Limits	N/A	N/A

Comments:
