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EMSL Order: 372115360

Customer ID: WATE78

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Project ID:

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Collected Date: 09/14/2021 09:20 AM - 09/14/2021 12:30 PM

Received Date: 09/15/2021 10:00 AM

Processed Date: 09/15/2021 12:50 PM

Analyzed Date: 09/27/2021 11:00 AM

Project: HCPB Summer (Howard County)

Legionella Detection - ID & Enumeration of *L. pneumophila* serotype 1, *L. pneumophila* (2-14) and *Legionella* species by ISO 11731:2017 Culture Method (EMSL Test Code M345 & Method MICRO-SOP-105)

Client Sample ID/Sample Location Lab Sample Number	Sample Type	Volume Submitted (mL)	Volume Filtered (mL)	Method Processed	Identification	Volume Examined (mL)	Limit of Detection (CFU/mL)	Final Results (CFU/mL)
1 - Long Reach HS 372115360-0001	Potable	250	250	Concentrated	None Detected	5	0.20	ND
2 - Oakland Mills High Sch 372115360-0002	Potable	250	250	Concentrated	None Detected	5	0.20	ND
3 - Oakland Mills Middle Sch 372115360-0003	Potable	250	250	Concentrated	None Detected	5	0.20	ND
4 - Laurel Woods ES 372115360-0004	Potable	250	250	Concentrated	None Detected	5	0.20	ND
5 - Forest Ridge ES 372115360-0005	Potable	250	250	Concentrated	None Detected	5	0.20	ND
6 - Talbott Springs ES 372115360-0006	Potable	250	250	Concentrated	None Detected	5	0.20	ND
7 - Hammond HS 372115360-0007	Potable	250	250	Concentrated	None Detected	5	0.20	ND
8 - Lake Elkhorn MS 372115360-0008	Potable	250	250	Concentrated	None Detected	5	0.20	ND
9 - Reservoir HS 372115360-0009	Potable	250	250	Concentrated	None Detected	5	0.20	ND

Vincent Iuzzolino, M.S., Laboratory Director
or other Approved Signatory

Legionella identification is carried out using a direct fluorescent antibody (DFA) for *Legionella pneumophila* (serogroups 1-14), a DFA for *L. pneumophila* serogroup 1 (LP1) and a DFA for 15 other *Legionella* species. *L. pneumophila* (2-14) has tested positive by DFA for *L. pneumophila* but negative for LP1. *Legionella* spp. have tested negative by DFA but are positive for growth on selective media. ND = None Detected/Below LOD. The limit of detection (LOD) is the lowest reportable CFU/mL count and is dependent on the sample volume processed and the dilutions used during testing. Volume processed may be lower than volume submitted if sample is turbid or contains components that restrict concentration of the sample. Volume examined is the calculated amount of the original sample that is plated for culture analysis. High bacterial counts (*Legionella* or otherwise) may require dilution of the sample that will lower the Volume Examined and raise the Limit of Detection.

Samples high in non-*Legionella* bacteria may obscure the detection of *Legionella*.

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

AIHA-LAP, LLC--EMLAP Accredited #100194, CDC ELITE certified. NYS ELAP #10872 - NYS ELAP certification is applicable to the enumeration of *Legionella* spp. (NYS ELAP certification does not apply to *Legionella* species identification)

Initial report from: 09/29/2021 12:49 PM