



# EMSL Analytical, Inc.

2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560  
Tel/Fax: (919) 465-3900 / (919) 465-3950  
<http://www.EMSL.com> / [raleighlab@emsl.com](mailto:raleighlab@emsl.com)

EMSL Order: 292205160  
Customer ID: APXC62  
Customer PO: 22006853 task 1  
Project ID: Stafford County Public School

**Attention:** Carolyn Pitera  
Apex Companies, LLC  
9700 Capital Court, Ste 100  
Manassas, VA 20110

**Phone:** (703) 396-6730  
**Fax:** (703) 396-6743  
**Collected Date:** 06/20/2022 09:47 AM - 06/20/2022 10:15 AM  
**Received Date:** 06/21/2022 09:30 AM  
**Processed Date:** 06/21/2022 01:30 PM  
**Analyzed Date:** 06/30/2022 02:00 PM

**Project:** Colonial Forge HS Water/SCPS Legionella Sampling (Stafford County Public School (SCPS))

## Legionella Detection - ID & Enumeration of *L. pneumophila* & *Legionella* species by ISO 11731:2017 Culture Method (EMSL Test Code M341 & 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)
062022CFH01W 292205160-0001	Potable	250	250	Concentrated	None Detected	5	0.20	ND
062022CFH02W 292205160-0002	Potable	250	250	Concentrated (Acid)	None Detected	0.5	2.00	ND
062022CFH03W 292205160-0003	Potable	250	250	Concentrated	None Detected	5	0.20	ND

Billy Barnes, Laboratory Manager  
or other Approved Signatory

*Legionella* identification is carried out using a direct fluorescent antibody (DFA) for *Legionella pneumophila* (serogroups 1-14) and a DFA for 15 other *Legionella* species. *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.

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Initial report from: 07/05/2022 09:43 AM

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EMSL Order: 292205161  
Customer ID: APXC62  
Customer PO: 22006853 task 1  
Project ID: Stafford County Public School

**Attention:** Carolyn Pitera  
Apex Companies, LLC  
9700 Capital Court, Ste 100  
Manassas, VA 20110

**Phone:** (703) 396-6730  
**Fax:** (703) 396-6743  
**Collected Date:** 06/20/2022 09:45 AM - 06/20/2022 10:13 AM  
**Received Date:** 06/21/2022 09:30 AM  
**Processed Date:** 06/21/2022 04:05 PM  
**Analyzed Date:** 06/30/2022 08:40 AM

**Project:** Colonial Forge HS Swabs/SCPS Legionella Sampling (Stafford County Public School (SCPS))

## Legionella Detection - ID & Enumeration of *L. pneumophila* & *Legionella* species by ISO 11731:2017 Culture Method (EMSL Test Code M341 & Method MICRO-SOP-105)

Client Sample ID/Sample Location Lab Sample Number	Sample Type	Swabs Submitted	Volume Resuspended (mL)	Method Processed	Identification	Limit of Detection (CFU/swab)	Final Results (CFU/swab)
062022CFH01S 292205161-0001	Potable	1	5	Dilution	None Detected	50.00	ND
062022CFH02S 292205161-0002	Potable	1	5	Dilution (Acid)	None Detected	500.00	ND
062022CFH03S 292205161-0003	Potable	1	5	Dilution	None Detected	50.00	ND

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EMSL Order: 292208140  
Customer ID: APXC62  
Customer PO: 0526025  
Project ID: Stafford County Public School

**Attention:** Carolyn Pitera  
Apex Companies, LLC  
9700 Capital Court, Ste 100  
Manassas, VA 20110

**Phone:** (703) 396-6730  
**Fax:** (703) 396-6743  
**Collected Date:** 09/20/2022 02:46 PM - 09/20/2022 05:30 PM  
**Received Date:** 09/22/2022 09:00 AM  
**Processed Date:** 09/22/2022 02:00 PM  
**Analyzed Date:** 10/03/2022 10:30 AM

**Project:** Colonial Forge HighSchool Water/SCPS 75% Legionella (Stafford County Public School (SCPS))

## Legionella Detection - ID & Enumeration of *L. pneumophila* & *Legionella* species by ISO 11731:2017 Culture Method (EMSL Test Code M341 & 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)
CF092022-01W 292208140-0001	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-02W 292208140-0002	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-03W 292208140-0003	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-04W 292208140-0004	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-05W 292208140-0005	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-06W 292208140-0006	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-07W 292208140-0007	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-08W 292208140-0008	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-09W 292208140-0009	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-10W 292208140-0010	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-11W 292208140-0011	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-12W 292208140-0012	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-13W 292208140-0013	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-14W 292208140-0014	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-15W 292208140-0015	Potable	250	250	Concentrated	None Detected	5	0.20	ND
CF092022-BW 292208140-0016	Potable	250	250	Concentrated	None Detected	5	0.20	ND

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**EMSL Order:** 292208140

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**Customer PO:** 0526025

**Project ID:** Stafford County Public School

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**Received Date:** 09/22/2022 09:00 AM

**Processed Date:** 09/22/2022 02:00 PM

**Analyzed Date:** 10/03/2022 10:30 AM

**Project:** Colonial Forge HighSchool Water/SCPS 75% Legionella (Stafford County Public School (SCPS))

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*Legionella* identification is carried out using a direct fluorescent antibody (DFA) for *Legionella pneumophila* (serogroups 1-14) and a DFA for 15 other *Legionella* species. *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.

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EMSL Order: 292208142  
Customer ID: APXC62  
Customer PO: 0526025  
Project ID: Stafford County Public School

**Attention:** Carolyn Pitera  
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**Phone:** (703) 396-6730  
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**Collected Date:** 09/20/2022 02:44 PM - 09/20/2022 05:28 PM  
**Received Date:** 09/22/2022 09:00 AM  
**Processed Date:** 09/22/2022 04:05 PM  
**Analyzed Date:** 10/04/2022 11:00 AM

**Project:** Colonial Forge HighSchool Swab/SCPS 75% Legionella (Stafford County Public School (SCPS))

## Legionella Detection - ID & Enumeration of *L. pneumophila* & *Legionella* species by ISO 11731:2017 Culture Method (EMSL Test Code M341 & Method MICRO-SOP-105)

Client Sample ID/Sample Location Lab Sample Number	Sample Type	Swabs Submitted	Volume Resuspended (mL)	Method Processed	Identification	Limit of Detection (CFU/swab)	Final Results (CFU/swab)
CF092022-01S 292208142-0001	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-02S 292208142-0002	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-03S 292208142-0003	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-04S 292208142-0004	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-05S 292208142-0005	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-06S 292208142-0006	Potable	1	5	Dilution (Acid)	None Detected	500.00	ND
CF092022-07S 292208142-0007	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-08S 292208142-0008	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-09S 292208142-0009	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-10S 292208142-0010	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-11S 292208142-0011	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-12S 292208142-0012	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-13S 292208142-0013	Potable	1	5	Dilution (Acid)	None Detected	500.00	ND
CF092022-14S 292208142-0014	Potable	1	5	Dilution (Acid)	None Detected	500.00	ND
CF092022-15S 292208142-0015	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-16S 292208142-0016	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-17S 292208142-0017	Potable	1	5	Dilution	None Detected	50.00	ND
CF092022-BS 292208142-0018	Potable	1	5	Dilution	None Detected	50.00	ND

Billy Barnes, Laboratory Manager  
or other Approved Signatory



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**Analyzed Date:** 10/04/2022 11:00 AM

**Project:** Colonial Forge HighSchool Swab/SCPS 75% Legionella (Stafford County Public School (SCPS))

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