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EMSL Order: 292205253
Customer ID: APXC62
Customer PO: 22006853
Project ID: Stafford County Public School

Attention: Carolyn Pitera
Apex Companies, LLC
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Phone: (703) 396-6730
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Collected Date: 06/22/2022 01:23 PM - 06/22/2022 02:54 PM
Received Date: 06/23/2022 10:00 AM
Processed Date: 06/23/2022 11:00 AM
Analyzed Date: 07/05/2022 12:00 PM

Project: H.H. Poole Middle Water/SCPS 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)
062222HPM01W 292205253-0001	Potable	250	250	Concentrated	None Detected	5	0.20	ND
062222HPM02W 292205253-0002	Potable	250	250	Concentrated	None Detected	5	0.20	ND
062222HPM03W 292205253-0003	Potable	250	250	Concentrated	None Detected	5	0.20	ND
062222HPM04W 292205253-0004	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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Received Date: 06/23/2022 10:00 AM
Processed Date: 06/23/2022 03:20 PM
Analyzed Date: 07/05/2022 11:40 AM

Project: H.H. Poole Middle 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)
062222HPM01S 292205252-0001	Potable	1	5	Dilution	None Detected	50.00	ND
062222HPM02S 292205252-0002	Potable	1	5	Dilution	None Detected	50.00	ND
062222HPM03S 292205252-0003	Potable	1	5	Dilution	None Detected	50.00	ND
062222HPM04S 292205252-0004	Potable	1	5	Dilution	None Detected	50.00	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/swab count and is dependent on the resuspended volume and the dilutions used during testing. High bacterial counts (*Legionella* or otherwise) may require dilution of the sample that will raise the Limit of Detection.

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

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Processed Date: 09/21/2022 10:15 AM
Analyzed Date: 10/04/2022 11:28 AM

Project: H.H. Poole Middleschool 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)
HH091922-01W 292208097-0001	Potable	250	250	Concentrated	None Detected	5	0.20	ND
HH091922-02W 292208097-0002	Potable	250	250	Concentrated	None Detected	5	0.20	ND
HH091922-03W 292208097-0003	Potable	250	250	Concentrated	None Detected	5	0.20	ND
HH091922-04W 292208097-0004	Potable	250	250	Concentrated	None Detected	5	0.20	ND
HH091922-05W 292208097-0005	Potable	250	250	Concentrated	<i>Legionella</i> spp.	5	0.20	0.20
HH091922-06W 292208097-0006	Potable	250	250	Concentrated	None Detected	5	0.20	ND
HH091922-BW 292208097-0007	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*.

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Received Date: 09/21/2022 09:30 AM
Processed Date: 09/21/2022 03:55 PM
Analyzed Date: 10/04/2022 11:00 AM

Project: H.H. Poole Middleschool Swab/SCPS 75% Legionella (Stafford County Public School (SCPS))

Legionella Detection - ID & Enumeration of *L. pneumophila* & *Legionella* species and Serotyping of *L. pneumophila* by ISO 11731:2017 Culture Method (EMSL Test Code M342 & 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)
HH091922-01S 292208096-0001	Potable	1	5	Dilution	None Detected	50.00	ND
HH091922-02S 292208096-0002	Potable	1	5	Dilution	None Detected	50.00	ND
HH091922-03S 292208096-0003	Potable	1	5	Dilution	None Detected	50.00	ND
HH091922-04S 292208096-0004	Potable	1	5	Dilution	None Detected	50.00	ND
HH091922-05S 292208096-0005	Potable	1	5	Dilution	None Detected	50.00	ND
HH091922-06S 292208096-0006	Potable	1	5	Dilution	None Detected	50.00	ND
HH091922-BS 292208096-0007	Potable	1	5	Dilution	None Detected	50.00	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), a DFA for each individual *L. pneumophila* serotype 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/swab count and is dependent on the resuspended volume and the dilutions used during testing. High bacterial counts (*Legionella* or otherwise) may require dilution of the sample that will raise the Limit of Detection.

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

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Received Date: 09/22/2022 09:00 AM
Processed Date: 09/22/2022 02:00 PM
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Project: H.H. MiddleSchool Water (2)/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)
HH092022-07W 292208137-0001	Potable	250	250	Concentrated	<i>Legionella</i> spp.	5	0.20	9.00
HH092022-08W 292208137-0002	Potable	250	250	Concentrated	None Detected	5	0.20	ND
HH092022-09W 292208137-0003	Potable	250	250	Concentrated	None Detected	5	0.20	ND
HH092022-10W 292208137-0004	Potable	250	250	Concentrated (Acid)	<i>Legionella</i> spp.	0.5	2.00	2.00
HH092022-11W 292208137-0005	Potable	250	250	Concentrated	None Detected	5	0.20	ND
HH092022-14W 292208137-0006	Potable	250	250	Concentrated	None Detected	5	0.20	ND
HH092022-BW 292208137-0007	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.

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Collected Date: 09/20/2022 06:20 PM - 09/20/2022 07:57 PM
Received Date: 09/22/2022 09:00 AM
Processed Date: 09/22/2022 02:05 PM
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Project: H.H. Poole Middleschool Swab (2)/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)
HH092022-07S 292208139-0001	Potable	1	5	Dilution	None Detected	50.00	ND
HH092022-08S 292208139-0002	Potable	1	5	Dilution	None Detected	50.00	ND
HH092022-09S 292208139-0003	Potable	1	5	Dilution	None Detected	50.00	ND
HH092022-10S 292208139-0004	Potable	1	5	Dilution	None Detected	50.00	ND
HH092022-11S 292208139-0005	Potable	1	5	Dilution (Acid)	None Detected	500.00	ND
HH092022-12S 292208139-0006	Potable	1	5	Dilution	None Detected	50.00	ND
HH092022-13S 292208139-0007	Potable	1	5	Dilution	None Detected	50.00	ND
HH092022-14S 292208139-0008	Potable	1	5	Dilution	None Detected	50.00	ND
HH092022-BS 292208139-0009	Potable	1	5	Dilution	None Detected	50.00	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/swab count and is dependent on the resuspended volume and the dilutions used during testing. High bacterial counts (*Legionella* or otherwise) may require dilution of the sample that will raise the Limit of Detection.

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