1818 New York Ave. NE, Ste 231, Washington, DC 20002

Telephone: (301) 595-3783 www.salutinc.com

January 15, 2021

Prince George's County Public Schools Environmental Safety Office 13306 Old Marlboro Pike Upper Marlboro, MD 20772

Attention: Alex Baylor

alex.baylor@pgcps.org

Subject: Indoor Air Quality Survey

Forestville Military Academy (Central HS)

7001 Beltz Drive #4635 Forestville, MD 20747

Mr. Baylor:

On January 12, 2021, a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Forestville Military Academy (Central HS), a property maintained by Prince George's County Public Schools (PGCPS) located at 7001 Beltz Drive, #4635 Forestville, MD 20747. The inspection was performed in accordance with PGCPS contract number IFB 022-19.

#### Methodology

The IAQ evaluation conducted by SaLUT included a visual assessment, IAQ instrumentation screening, and a collection of interior air samples for mold in representative locations throughout the building. Additionally, one building exterior environmental air sample was taken for comparison.

Air-borne fungal spore samples were collected on *Air-O-Cell* cassettes using a Buck BioAire calibrated pump. The air samples were taken between three and five feet from the ground. In tandem with collecting mold samples, real-time readings for carbon dioxide, carbon monoxide, temperature and relative humidity were collected using a Fluke 975 Air Meter in representative areas within the facility.

The fungal spore air samples were delivered to EMSL Analytical, Inc. of Beltsville, Maryland for analysis. Fungal spores and particulates in air samples were analyzed by Optical Microscopy (methods EMSL 05-TP-003 and ASTM D7391). The sample chain-of-custody and laboratory reports are attached.



#### **Observations**

The table below summarizes the main observations from the IAQ survey at Forestville Military Academy (Central HS), visited on January 12, 2021.

**Table 1-Observations** 

Location	Summary of Observations 01-12-2021
Basement Tech Systems Main Lab G	2'x4' ceiling tiles and 12"x12" tile floor;
	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
1st Floor Main Office	2'x 2' ceiling tiles and 12"x12" tile floor;
	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
1st Floor Cafeteria	2'x2' ceiling tiles;
	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
2nd Floor Hallway next to Room 224	2'x2' ceiling tiles and 12"x12" tile floor;
	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
2nd Floor Room 227	2'x4' ceiling tiles and 12"x12" tile floor;
	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.

#### Measurements of Indoor Environmental Quality Parameters

Table 2 depicts a summary of average measurements of comfort.

#### **Temperature**

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have published recommendations for year round acceptable temperatures in Standard 55-2010 *Thermal Environmental Conditions for Human Occupancy*. The winter comfort range is 20 to 24°C (68 to 75°F) and 23 to 26°C (73 to 79°F) is the summer comfort range. The temperature readings were within the ASHRAE recommended ranges in the representative spaces.



#### Relative Humidity (RH)

RH is a key factor for mold growth. Mold has the potential of growing on suitable surfaces with humidity levels above 60%. ASHRAE Standard 62.1-2010 *Ventilation for Acceptable Indoor Air Quality* recommends a maximum indoor RH of 65% to preclude the likelihood of condensation on cool surfaces encouraging mold growth. The RH readings were within the ASHRAE recommended ranges in the representative areas.

#### Carbon Dioxide (CO<sub>2</sub>)

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2010, Appendix C, infers that the acceptable CO<sub>2</sub> upper limit is the prevailing outdoor CO<sub>2</sub> concentration plus 700 parts per million (ppm). On the day of the space evaluation, the outdoor (building exterior) CO<sub>2</sub> concentration was approximately 417 ppm therefore indoor concentrations should not exceed approximately 1,117 ppm (700 + 417). The maximum average interior CO<sub>2</sub> concentration detected was 690 ppm in the 1st Floor Main Office, a range within the ASHRAE recommendations, per Table 2 below.

#### Carbon Monoxide (CO)

CO is a colorless and odorless gas that is produced by the incomplete combustion of carbon containing fuels. Oil, gasoline, diesel fuels, wood, coke, and coal are major sources of CO. All registered CO concentrations were below the EPA National Ambient Air Quality Standard (NAAQS) of 9 ppm, per Table 2 below.

Table 2: Forestville Military Academy (Central HS)-Instrumental Screening Levels January 12, 2021 (9:30 AM-11:30 AM)

Sample Location	Temp	RH%	CO	CO <sub>2</sub>
	$^{0}\mathrm{F}$		ppm	ppm
Standards	ASHRAE	ASHRAE	NAAQS	ASHRAE
	68 to 75°F*	<65%	9	1,117
Basement Tech Systems Main Lab G	74.8	21.8	1	508
1st Floor Main Office	68.0	24.8	1	690
1st Floor Cafeteria	68.4	24.2	2	577
2 <sup>nd</sup> Floor Hallway next to Room 224	74.6	18.8	2	489
2nd Floor Room 227	74.8	21.4	2	546
Outside Exterior EV Sample	55.4	30.4	2	417

PM - Particulate Matter size

°F - Degrees Fahrenheit

CO - Carbon Monoxide

ppm - parts per million

μg/m<sup>3</sup> – micrograms per cubic meter

RH% - % Relative Humidity

CO<sub>2</sub> - Carbon Dioxide

\* - Winter Comfort Range



#### **Mold-in-Air Samples**

There are no definitive regulations or standardized guidelines for addressing airborne mold in an indoor setting. If building systems (ventilation, envelope) are functioning properly, the indoor population profile should mimic what is encountered outdoors and the concentrations should be below the outdoor (building exterior) environmental sample levels.

**Tables 3:** Summarizes airborne mold spore sampling results and locations. On January 12, 2021, total mold counts in representative samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations. Laboratory analysis follows this report (see attachment).

Table 3: Forestville Military Academy (Central HS)
Measurements of Mold-in-Air Samples
January 12, 2021 (9:30 AM-11:30 AM)

Spore Types	Basement Tech Systems Main Lab G	1st Floor Cafeteria	1st Floor Main Office	2nd Floor Hallway next to Room 224
Alternaria (Ulocladium)	-	-	-	-
Ascospores	10*	-	-	-
Aspergillus/Penicillium	40	-	-	-
Basidiospores	-	-	100	80
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	-	-	40	1,100
Curvularia	-	-	-	-
Ерісоссит	-	-	-	-
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	-	-	-	-
Pithomyces++	-	-	-	-
Rust	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	-	-	-	-
Zygomycetes	-	-	-	-
Nigrospora	-	-	-	-
Hyphal Fragment	-	-	-	-
Insect Fragment	-	10*	-	40
Pollen	-	-	-	-
Total Fungi	50	None Detect	140	1,180

<sup>\*</sup> Spore Counts per cubic meter of air (Counts/ $m^3$ ).

<sup>++</sup>Includes other spores with similar morphology.



## Table 3: Forestville Military Academy (Central HS) Measurements of Mold-in-Air Samples continued January 12, 2021 (9:30 AM-11:30 AM)

Spore Types	2nd Floor Room 227	Outside Exterior EV Sample	Field Blank
Alternaria (Ulocladium)	-	-	-
Ascospores	-	40	-
Aspergillus/Penicillium	-	1,000	-
Basidiospores	40	940	-
Bipolaris++	-	-	-
Chaetomium	-	-	-
Cladosporium	-	40	-
Curvularia	-	-	-
Ерісоссит	-	-	-
Fusarium	-	-	-
Ganoderma	-	-	-
Myxomycetes++	-	10*	-
Pithomyces++	-	-	-
Rust	-	-	-
Scopulariopsis/Microascus	-	-	-
Stachybotrys/Memnoniella	-	-	-
Unidentifiable Spores	-	-	-
Zygomycetes	-	-	-
Nigrospora	-	-	-
Hyphal Fragment	-	40	-
Insect Fragment	10*	-	-
Pollen		-	
Total Fungi	40	2,030	No Trace

<sup>\*</sup>Spore Counts per cubic meter of air (Counts/ $m^3$ ).

<sup>++</sup>Includes other spores with similar morphology.



### **Findings and Conclusions**

The comfort parameters (i.e., temperature, RH, CO<sub>2</sub>, and CO levels) in the representative areas conform to ASHRAE and/or NAAQS guidelines. On January 12, 2021 total mold counts in representative area samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations, indicating no amplified mold growth.

Thank you for the opportunity to provide industrial hygiene services for PGCPS. If you have any questions, please contact me at 301.595.3783.

Sincerely,

Chaminda Jayatilake, PE, CIH, CSP, CHMM

Certified Industrial Hygienist

Soil and Land Use Technology Inc. (SaLUT)

#### Attachment

Attachment - Mold Spore Sample Analytical Results and Chain-of-Custody Forms

# **Attachment**

Mold Spore Sample Analytical Results and Chain-of-Custody Forms



EMSL Order: 192100294 Customer ID: SALU50

**Customer PO:** Project ID:

Phone: (301) 595-3783 Attention: Indika Jayatilake Fax: (301) 595-3787

**SaLUT** 

Collected Date: 01/12/2021 1818 New York Avenue, NE

Suite 231

Received Date: 01/13/2021 08:30 AM

Washington, DC 20002 Analyzed Date: 01/13/2021

Project: FORESTVILLE MILITARY ACADEMY (CENTRAL HS) PGCPS

Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L):	192100294-0001 01 75				92100294-0002 02 75		192100294-0003 03 75			
Sample Location:		FL MAIN OFFIC			T FL CAFETERIA			TECH SYSTEMS MA		
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-	
Ascospores	-	-	-	-	-	-	1*	10*	20	
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-	
Basidiospores	3	100	71.4	-	-	-	1	40	80	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	1	40	28.6	-	-	-	-	-	-	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	-	-	-	-	-	-	
Pithomyces++	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Total Fungi	4	140	100	-	None Detect	-	2	50	100	
Hyphal Fragment	-	-	-	-	-	-	-	-	-	
Insect Fragment	-	-	-	1*	10*	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	1	-	-	1	-	-	1	-	

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.



Abubakar Barry, Microbiology Laboratory Manager or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD AIHA-LAP, LLC-EMLAP Accredited #102891

Initial report from: 01/14/2021 09:27 AM



EMSL Order: 192100294 Customer ID: SALU50

Received Date: 01/13/2021 08:30 AM

**Customer PO:** Project ID:

Phone: (301) 595-3783 Attention: Indika Jayatilake Fax: (301) 595-3787

**SaLUT** 

Collected Date: 01/12/2021 1818 New York Avenue, NE

Suite 231

Analyzed Date: 01/13/2021

Washington, DC 20002 Project: FORESTVILLE MILITARY ACADEMY (CENTRAL HS) PGCPS

Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L):	192100294-0004 04 75			1	92100294-0005 05 75		192100294-0006 06 75			
Sample Location:	2	ND FL RM 227		2ND FL H	W NEXT TO RO	OM 224	OUTSIDE	EXTERIOR EV	SAMPLE	
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	
Alternaria (Ulocladium)	-	-	<u> </u>	-	-	-	-	-	-	
Ascospores	-	-	-	-	-	-	1	40	2	
Aspergillus/Penicillium	-	-	-	-	-	-	25	1000	49.3	
Basidiospores	1	40	100	2	80	6.8	23	940	46.3	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	28	1100	93.2	1	40	2	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	-	-	-	1*	10*	0.5	
Pithomyces++	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Total Fungi	1	40	100	30	1180	100	51	2030	100	
Hyphal Fragment	-	-	-	-	-	-	1	40	-	
Insect Fragment	1*	10*	-	1	40	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	2	-	-	1	-	-	2	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	1	-	-	1	-	-	1	-	

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.



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Collected Date: 01/12/2021 1818 New York Avenue, NE

Suite 231 Received Date: 01/13/2021 08:30 AM

Washington, DC 20002 Analyzed Date: 01/13/2021 Project: FORESTVILLE MILITARY ACADEMY (CENTRAL HS) PGCPS

Test Report:Air-0  Lab Sample Number:		sis of Fungal Sp 92100294-0007	ores & Partic	ulates by Optica	l Microscopy (N	Methods MICR	O-SOP-201, ASTI	M D7391)	
Client Sample ID:		07							
Volume (L):									
Sample Location:	i	FIELD BLANK		! 					
Spore Types	Raw Count	Count/M³	% of Total	_	_	_	_	_	-
Alternaria (Ulocladium)	-	-	-	-	-	-	-	_	-
Ascospores	-	-	-	-		-	-		
Aspergillus/Penicillium	-	-	-	-		-	-		
Basidiospores	-	-	-	-		-	-		
Bipolaris++	-	-	-	-		-	-		
Chaetomium	-	-	-	-		-	-		
Cladosporium	-	-	-	-		-	-		
Curvularia	-	-	-	-		-	-		
Epicoccum	-	-	-	-		-	-		
Fusarium	-	-	-	-		-	-		
Ganoderma	-	-	-	-		-	-		
Myxomycetes++	-	-	-	-		-	-		
Pithomyces++	-	-	-	-		100	-		
Rust	-	-	-	-		-	-		
Scopulariopsis/Microascus	-	-	-	-		100	-		
Stachybotrys/Memnoniella	-	-	-	-		-	-		
Unidentifiable Spores	-	-	-	-		-	-		
Zygomycetes	-	-	-	-		-	-		
Total Fungi	-	No Trace	-	-		-	-		
Hyphal Fragment	-	-	-	-		-	-		
Insect Fragment	-	-	-	-		-	-		
Pollen	-	-	-	-	-	-	-		-
Analyt. Sensitivity 600x	-	0	-	-		-	-		
Analyt. Sensitivity 300x	-	0*	-	-		-	-		
Skin Fragments (1-4)	-	-	-	-		-	-		
Fibrous Particulate (1-4)	-	-	-	-		-	-		
Background (1-5)	-	-	-	-	-		-	-	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.



Abubakar Barry, Microbiology Laboratory Manager or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD AIHA-LAP, LLC-EMLAP Accredited #102891

Initial report from: 01/14/2021 09:27 AM



# Microbiology Chain of Custody EMSL Order Number (Lab Use Only):

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PHONE:

, CASO-CATORY-PRODUCTS	TRANSMG					/			1 7/		
Company Name: SaLUT Inc.						j li	EMSL-Bil Bill to is Diffe	l to: ■ San rent note instru	ne Different ctions in Comments	**	
Street: 1818 New York Ave NE Suite 231						Third Part	y Billing req	uires written a	authorization from	third party	
						Zip/Postal Co	de:20002		Country: US	Α	
Report To (Name)	: Indika Jayatil	ake	<u></u>		-		Telephone #:	301-595-3	783		
Email Address:	ijayatilake@salu	ıtinc.cor	m.				Fax #:		_	Purchase Or	der:
	-			ıy (C	entral HS)	PG	Please Provid	ie Results	: 🔲 Fax	<b>■</b> Email	
Location Address: 7	Project Number/Location: Forestville Military Academy (Central HS) PG( Please Provide Results  Location Address: 7001 Beltz Dr. # 4635 Forestville, MD 20747 Connecticut S									Commercial 🗌	Residential
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. The Sterile, Sodium Thiosulfate Preserved Bottle Used:   Biocide Used in Source (specific properties).									TATs are sub	ject to methodolo	gy requirements
Public Water Supply Samples:  Note: All results may automatically be reported								to DOH if	required by st	ate.	
Turnaround Time (TAT) Optio									0.11	T	T 🗆 0 14 - 0 to
☐ 3 Hour	☐ 6 Hour		24 Hour				72 Hour	a	6 Hour	☐ 1 Week	2 Week
M001 Air-O-Cell	M174 Mc	Idenan		14			Test Codes nonas aeruginosa	/MET*)	M115 Sew	age Screen - Wa	ter (P/A***)
M030 Micro 5	M032 All		-D		M015 He	terotr	ophic Plate Count	,	M116 Sew	age Screen - Wa	ter (MPN**)
M041 Fungal Direct E		orgon.co			M017 To   P/A***)	tal Co	liform & E. coli (C	olilert		age Screen - Swa age Screen - Swa	
M169 Pollen ID & Ent	umeration		•		M018 To		liform & E. coli (M		M133 Meth	nicillin-resistant S	
M280 Dust Character					M114 To		iliform & E. coli En	umeration	(MRSA) M031 Rapi	id-growing non-Tl	B Mycobacteria
M281 Dust Character M005 Viable Fungi- A		s ID.& C	ount)		M019 Fe	cal Co	oliform (MFT*)	••	Detection 8	& Enumeration	
M006 Viable Fungi- A				41			reptococcus (MFT occi (MFT*)	-)		otoxin Analysis .p Allergen (Cat, :	Dog, Cockroach,
Aspergillus, Cladospo M007 Culturable fung	i - Surface Sample	es (Genu	is ID & Cor	unt) -	M129 En	teroco	occi (Enterolert P//		Dust Mite)	, , ,	
M008 Culturable fung Penicillium, Aspergillu				ioc	M180 Real Time qPCR-ERMI 36 Panel Other See Analytical Price Guide Legionella Analysis Please use EMSL						
ID & Count)		-	onys opec	163	M025 Sewage Screen –Water (MFT*)  Legionella COC						
M009 Bacteria Culture M010 Bacteria Count	e Gram Stain & Co & ID - 3 Most Pro	ount minent	-		*MFT=-Membrane Filtration Technique						
M011 Bacteria Count	& ID - 5 Most Pro	minent				**MPN= Most Probable Number  ***P/A= Presence/Absence					
M012 Pseudomonas : Name of Sampler:					<u>, , , , , , , , , , , , , , , , , , , </u>	16361	·····		<del>- 1</del>		<del></del>
trattle of Sampler.	Jude Fonse	ка			<del></del> _		Signature of S	anipier:	F. Comments	Т	Temperature
Sample #	Sample Loc	ation/D	escription	1	Samp		NonPotable	Test	Volume/	Date/Time	, - (°C) .
<b></b>	<b>Cap</b>		,		Туре	)	(only for waters)	Code	Area	Collected	(Lab Use Only)
					4.42 T						
01	1st floo	r Main	Office		Air			M001	75L	1/12/2021	
02 .	1st flo	or Cafe	eteria		Air			M001	75L	1/12/2021	
03	Basement Tech	System	s Main Lat	G2	Air	1		M001	75L	1/12/2021	Little Little State of the Stat
04	2ND FI	oor Roc	om 227		Air			M001	75L	1/12/2021	and the same of the
05	2nd Floor H	W next	to room22	24	Air			M001	75L	1/12/2021	
06	Outside Ex	terior E	V Sample	•	Air			M001.	75L	1/12/2021	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
Client Sample # (s	·):	-		Τ.	otal # of S	Samp	oles: 07	Samples	Received	Chilled? Yes	
Relinquished (Clie	ent):					<u>Dat</u>	te:		Time:	202	<u> </u>
Received (Lab):	Meseus	_74	dea	<u>_り</u>	B	Dat	te:		Time:		B 도
Comments/Specia	I Instructions:	- <del></del>							,		AN.
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OrderID: 192100294



## Microbiology Chain of Custody EMSL Order Number (Lab Use Only):

192	100294	
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PHONE: FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information:

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
07	Field Blank	Air		N/A	N/A	1/12/2021	
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