Soil and Land Use Technology, Inc.

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

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

June 18, 2019

Prince George's County Public School (PGCPS) Environmental Safety Office 13306 Old Marlboro Pike Upper Marlboro, MD 20772

Attention: Alex Baylor

alex.baylor@pgcps.org

Subject: Indoor Air Quality Survey

Deerfield Run Elementary School

13000 Laurel-Bowie Road

Laurel, MD 20708

Mr. Baylor:

On May 29, 2019, a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Deerfield Run Elementary School, a property maintained by Prince George's County Public Schools (PGCPS) located at 13000 Laurel-Bowie Road, Laurel, MD 20708. 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. A MiniRAE 3000-photoionization detector (PID) was used to measure total volatile organic compounds (TVOC).

Respirable particulate in air (size classes PM2.5µ and PM10µ) was measured using the Particles Plus 8306 Handheld Particle Counter which was calibrated prior to sampling. The fungal spore air samples were delivered to EMSL Analytical, Inc. of Beltsville,



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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 Deerfield Run Elementary School, visited on May 29, 2019.

Table 1-Observations

Location	Summary of Observations 5-29-2019
Green Kindergarten	2'x4' ceiling tiles and 1'x1' tile floor; No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	Central HVAC system.
Resource Room G-2	2'x4' ceiling tiles and 1'x1' tile floor;
	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	Central HVAC system.
Resource Room G-4	2'x4' ceiling tiles and 1'x1' tile floor;
	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
T007 01	Central HVAC system.
ESOL Classroom	2'x4' ceiling tiles and 1'x1' tile floor;
	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
TT 11 3 6 1:	Central HVAC system.
Hallway near Media	2'x4' ceiling tiles and 1'x1' tile floor;
Center	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
I	Central HVAC system.
Learning Area E-2	2'x4' ceiling tiles and 1'x1' tile floor;
	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces; Central HVAC system.
Health Suite	2'x4' ceiling tiles and 1'x1' tile floor;
Tleatin June	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	Central HVAC system.
Principal Office	2'x4' ceiling tiles and 1'x1' tile floor;
Timeipui Office	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	Central HVAC system.
Cafeteria	2'x4' ceiling tiles and 1'x1' tile floor;
Careterin	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	Central HVAC system.



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Location	Summary of Observations 5-29-2019
Gymnasium	3'x5' ceiling tiles and polished wooden floor;
	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	Central HVAC system.
Classroom K-1	2'x4' ceiling tiles and 1'x1' tile floor;
	No visual signs of microbial growth, and no odor;
	No visible dust on floor/other furniture surfaces;
	Central HVAC system.

Measurements of Indoor Environmental Quality Parameters

Table 2 depicts a summary of average measurements of comfort parameters and respirable particulates.

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 with the exception of the some readings which were slightly lower than the ASHRAE comfort level.

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 (CO₂)

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2010, Appendix C, infers that the acceptable CO₂ upper limit is the prevailing outdoor CO₂ concentration plus 700 parts per million (ppm). On the day of the space evaluation, the outdoor (building exterior) CO₂ concentration was approximately 486 ppm therefore indoor concentrations should not exceed approximately 1,186 ppm (700 + 486). The maximum average interior CO₂ concentration detected was 1,017 ppm in Green Kindergarten Classroom 16, 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



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of CO. All registered CO concentrations were below the EPA National Ambient Air Quality Standard (NAAQS) of 9 ppm, per Table 2 below.

Respirable Particulates

Direct reading particulate monitoring did not identify a condition of concern. Particulate concentrations for two mass ranges with EPA ambient air quality guidelines (PM2.5 and PM10) were below their respective NAAQS levels. On May 29, 2019, the highest average PM2.5 concentration during the monitoring period was 0.003 mg/m³ (3 μ g/m³) in Gymnasium. This is compared to the NAAQS primary standard for PM2.5 of 12 μ g/m³ annual mean. The highest average PM10 concentration during the same period was 0.041 mg/m³ (41 μ g/m³) in Gymnasium. This is compared to NAAQS standard for PM10 of 150 μ g/m³ 24 hour average.

Total Volatile Organic Chemicals (TVOC)

LEED's standard of 500 μ g/m³ for TVOC (ANSI/ASHRAE Standard 62.1-2010) concentrations per the instrument's level of detection for a healthy commercial building were used as the standard for TVOCs for this survey. Concentrations below this value can be considered as "background levels" and, at such low concentrations, they are extremely unlikely to cause any adverse health conditions to the occupants. Generally, values below 3000 μ g/m³ are unlikely to cause more than mild irritation or headaches, but to date no recognized industry standard has been established for TVOCs. Perfumes, colognes, and air fresheners as well as certain cleaning chemicals can all cause temporary increases in TVOC readings. TVOC readings cannot be used to establish OSHA limits on specific VOCs or be attributed to specific compounds.

Table 2: Deerfield Run Elementary School Instrumental Screening Levels May 29, 2019

	Temp		CO	CO ₂	PM 2.5	PM 10	TVOC
Sample Location	0 F	RH%	ppm	ppm	mg/m³	mg/m³	ppm
	ASHRAE	ASHRAE	NAAQS	ASHRAE	NAAQS	NAAQS	1.0
Standards	73 to 79°F*	<65%	9	1,186	0.012	0.150	1.0
Orange Storage	77	62.8	0	882	0.001	0.024	0.1
Green Kindergarten	75.2	68.0	0	1017	0.001	0.019	0.0
K-1	73.4	63.4	0	783	0.001	0.012	0
Gym 2	72.5	66.4	0	780	0.003	0.041	0.1
Cafeteria	72.5	68.0	0	795	0.002	0.024	0
Outside EV	89	44.8	0	486	0.003	0.049	0

PM – Particulate Matter size °F – Degrees Fahrenheit CO – Carbon Monoxide ppm – parts per million µg/m³ – micrograms per cubic meter RH% – % Relative Humidity CO₂ – Carbon Dioxide * – Summer Comfort Range



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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 May 29, 2019, 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: Deerfield Run Elementary School - Measurements of Mold-in-Air Samples May 29, 2019

Spore Types	Outdoor next to the Building Entrance Area	Classroom K1	Orange Storage	Cafeteria
Alternaria (Ulocladium)	-	-	-	40
Ascospores	700	100	40	100
Aspergillus/Penicillium	100	40	40	40
Basidiospores	4,100	300	300	660
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	1,500	90	200	200
Curvularia	-	-	-	90
Ерісоссит	10*	-	-	-
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	30*	-	10*	-
Pithomyces++	-	-	-	-
Rust	-	-	-	-
Scopulariopsis/Microascus	40	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	40	-	-	-
Zygomycetes	-	-	-	-
Botrytis	40	-	-	-
Corynespora	-	-	-	40
Hyphal Fragment	90	-	-	90
Insect Fragment	40	-	-	-
Pollen	10*	-	-	-
Total Fungi	6,560	530	590	1,170

^{*}Spore Counts per cubic meter of air (Counts/m³).

⁺⁺Includes other spores with similar morphology.



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Table 3: Deerfield Run Elementary School - Measurements of Mold-in-Air Samples Continued

May 29, 2019

Spore Types	Gymnasium	G Kindergarten	Field Blank
Alternaria (Ulocladium)	-	-	-
Ascospores	-	200	-
Aspergillus/Penicillium	40	-	-
Basidiospores	-	40	-
Bipolaris++	-	-	-
Chaetomium	-	-	-
Cladosporium	40	-	-
Curvularia	-	-	-
Ерісоссит	-	-	-
Fusarium	-	-	-
Ganoderma	-	-	-
Myxomycetes++	-	-	-
Pithomyces++	-	-	-
Rust	-	-	-
Scopulariopsis/Microascus	-	-	-
Stachybotrys/Memnoniella	-	-	-
Unidentifiable Spores	-	-	-
Zygomycetes	-	-	-
Botrytis	-	-	-
Hyphal Fragment	-	-	-
Insect Fragment	-	-	-
Pollen	-	10*	-
Total Fungi	80	240	No Trace

^{*}Spore Counts per cubic meter of air (Counts/m³).

Findings and Conclusions

The comfort parameters (i.e., temperature, RH, CO₂, and CO levels) and respirable particulates in the representative areas conform to ASHRAE and/or NAAQS guidelines with the exception of the some temperature readings which were slightly lower than the ASHRAE comfort level. On May 29, 2019, 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.

Recommendations

Based on the observations, mold spore results, and the results of the indoor air quality parameters tested, we have no recommendations at this time.

⁺⁺Includes other spores with similar morphology.



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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: 061910898 Customer ID: SALU50

Customer PO: Project ID:

Phone: (301) 595-3783 Attn: Indika Jayatilake

SaLUT (301) 595-3787 Fax: 1818 New York Avenue, NE Collected: 05/29/2019 Suite 218A Received: 05/30/2019

Analyzed: 06/05/2019 Washington, DC 20002

Project: PGCPS IAQ/19-035 Deerfield Run ES 13000 Laurel Bowie Road, Laurel, MD 20708

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): Sample Location	061910898-0001 28458465 75 Classroom K 1				061910898-0002 28458460 75 Orange Storage		061910898-0003 28458442 75 Cafteria			
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	
Alternaria (Ulocladium)	-	<u>'</u>	-	-	-	-	1	40	3.4	
Ascospores	3	100	18.9	1	40	6.8	3	100	8.5	
Aspergillus/Penicillium	1	40	7.5	1	40	6.8	1	40	3.4	
Basidiospores	6	300	56.6	7	300	50.8	15	660	56.4	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	2	90	17	4	200	33.9	5	200	17.1	
Curvularia	-	-	-	-	-	-	2	90	7.7	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	1*	10*	1.7	-	-	-	
Pithomyces++	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Botrytis	-	-	-	-	-	-	-	-	-	
Corynespora	-	-	-	-	-	-	1	40	3.4	
Total Fungi	12	530	100	14	590	100	28	1170	100	
Hyphal Fragment	-	-	-	-	-	-	2	90	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	_	
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	1	-	-	2	-	-	2	-	

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

Jeffrey Lau, Microbiology Laboratory Manager

or other approved signatory

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "*"

Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. 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 Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted

Samples analyzed by EMSL Analytical, Inc. Carle Place, NY AIHA-LAP, LLC--EMLAP Accredited #102344

Initial report from: 06/05/2019 19:43:06



EMSL Order: 061910898 Customer ID: SALU50

Customer PO: Project ID:

Attn: Indika Jayatilake Phone: (301) 595-3783

 SaLUT
 Fax:
 (301) 595-3787

 1818 New York Avenue, NE
 Collected:
 05/29/2019

 Suite 218A
 Received:
 05/30/2019

 Washington, DC 20002
 Analyzed:
 06/05/2019

Project: PGCPS IAQ/19-035 Deerfield Run ES 13000 Laurel Bowie Road, Laurel, MD 20708

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): Sample Location	061910898-0004 28458466 75 Gymnasium				061910898-0009 28458490 75 G Kindergarder	5	061910898-0006 28458523 75 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)	-	-	-	-	-	-	-	-	-	
Ascospores	-	-	-	5	200	83.3	16	700	10.7	
Aspergillus/Penicillium	1	40	50	-	-	-	3	100	1.5	
Basidiospores	-	-	-	1	40	16.7	93	4100	62.5	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	1	40	50	-	-	-	34	1500	22.9	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	1*	10*	0.2	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	-	-	-	2*	30*	0.5	
Pithomyces++	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	1	40	0.6	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	1	40	0.6	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Botrytis	-	-	-	-	-	-	1	40	0.6	
Corynespora	-	-	-	-	-	-	-	-	-	
Total Fungi	2	80	100	6	240	100	152	6560	100	
Hyphal Fragment	-	-	-	-	-	-	2	90	-	
Insect Fragment	-	-	-	-	-	-	1	40	-	
Pollen	-	-	-	1*	10*	-	1*	10*	-	
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-	
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.

Jeffrey Lau, Microbiology Laboratory Manager or other approved signatory

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Initial report from: 06/05/2019 19:43:06



Washington, DC 20002

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Attn: Indika Jayatilake Phone: (301) 595-3783

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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): Sample Location	1	061910898-0007 28459060 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++	-	-	-			-	-		
Rust	-	-	-			-	-		
Scopulariopsis/Microascus	-	-	-			-	-		
Stachybotrys/Memnoniella	-	-	-			-	-		
Unidentifiable Spores	-	-	-			-	-		
Zygomycetes	-	-	-			-	-		
Botrytis	-	-	-			-	-		
Corynespora	-	-	-			-	-		
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.

Jeffrey Lau, Microbiology Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Carle Place, NY AIHA-LAP, LLC--EMLAP Accredited #102344

Initial report from: 06/05/2019 19:43:06

OrderID: 061910898



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

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PHONE:

EMSL ANALYTICAL, INC. LABORATORY-PRODUCTS-TRADBING FAX:											
Company Name: S	SaLUT Inc.					ſ			ne 🔲 Different ctions in Comments		
Street: 1818 New	York Ave NE Suit	e 231			TI	hird Part	y Billing requ	iires written a	authorization from	third party	
City: Washington	State	/Province: DC		Z	Zip/Po	stal Co	de:20002		Country: US/	4	
Report To (Name):	Indika Jayatilake			<u> </u> T	Геlерһ	one #:	301-595-3	783			
Email Address: ^{ija}	yatilake@salutinc.co	om		F	ax #:				Purchase Or	der:	
Project Number/Location: PGCPS IAQ/19-035 Deerfield Run ES Please Provide Results: ☐ Fax ■ Email											
Location Address: 13000 Laurel Bowie Road, Laurel, MD 20708 Connecticut Samples: Commercial Residential											
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements Sterile, Sodium Thiosulfate Preserved Bottle Used: Biocide Used in Source (specify):											
Public Water Supply Samples: Note: All results may automatically be reported to DOH if required by state.											
Turnaround Time (TAT) Options * - Please Check											
Turnaround Time (TAT) Options * - Please Check ☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week											
			licrobiology					711041	i rreek	Z VICER	
M001 Air-O-Cell	M174 MoldSna		M024 Pseud				(MFT*)	M115 Sew	age Screen - Wat	ег (Р/А***)	
M030 Micro 5	M032 Allergen	•	M015 Hetero M017 Total C				olilart		age Screen - Wat age Screen - Swa		
M041 Fungal Direct E			P/A***)			•		M013 Sew	age Screen - Swa	b (MFT*)	
M169 Poilen ID & Enu		Ī	M018 Total C M114 Total C					M133 Meth (MRSA)	icillin-resistant St	aph. aureus	
M280 Dust Characteri M281 Dust Characteri		ĺ	(Colilert MPN	(**)			differation		d-growing non-TE	Mycobacteria	
M005 Viable Fungi- A	ir Samples (Genus ID &		M019 Fecal (*\		& Enumeration		
	ir Samples (Includes <i>P</i> rium, Stachybotrys Spe		M020 Fecal 3 M029 Entero				,		otoxin Analysis ıp Allergen (Cat, I	Dog, Cockroach,	
M007 Culturable fungi	- Surface Samples (Ge	enus ID & Count)	M129 Entero					Dust Mite)		_	
	 Surface Samples (Inc. s, Cladosporium, Stach 		M180 Real Time qPCR-ERMI 36 Panel Other See Analytical Price Guide Legionella Analysis Please use EMSL								
ID & Count)	,	lybolitys opecies	M025 Sewag	e Sc	reen –\	Water (N	/IFT*)	Legionella		· ·	
M009 Bacteria Culture M010 Bacteria Count	e Gram Stain & Count & ID - 3 Most Prominer	. +	*MFT= Meml	rane	e Filtrat	ion Tech	nique	<u>l</u>			
M011 Bacteria Count	& ID - 5 Most Prominer		**MPN= Mos				•		つ		
M012 Pseudomonas a			***P/A= Pres	-				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u></u>		
Name of Sampler:	Jude Fonseka			J Si			ampler:		 1	 	
Compale #	0	(D i - 4i	Sample	1 1	Potal NonPo		Test	Volume/	Date/Time	Temperature ('C)	
Sample #	Sample Location	n/Description	Type		(only		Code	Area	Collected	(Lab Úse	
		<u> </u>		+	wate	ers)				Only)	
00450405				↓.							
28458465 28458460	Classroo		Air	1	b	NP_		75L	5/29/2019		
28458442	Orange S		Air		P	<u>⊢</u> NP	M001	75L	5/29/2019		
28458466	Cafete Gymna:		Air Air	┦┾	╬	<u> NP</u>	M001	75L	5/29/2019		
28458490	G Kinderg			╁	<u>-</u> P	<u> </u>	M001	75L	5/29/2019	-	
			Air	╁	_!P		M001	75L	5/29/2019		
	28458523 Outside Exterior EV Sample Air P NP m001 75L 5/29/2019										
·	Client Sample # (s): - Total # of Samples: 7 Samples Received Chilled? Yes / No										
	Relinquished (Client); Date: Time:										
Received (Lab): John Will In Date: 5/30/9 Time: 9:10am Comments/Special Instructions:											
Comments/Specia	ากเรเนนนียยกระ				•	ı				I	
										:	
l	Page 1 of										

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

|--|

PHONE: FAX:

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

Sample #	Sample Location/Description	Sample Type	nple Potable/ pe NonPotable		Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
28459060 Field Blank	Field Blank	N/A	☐P □NP	N/A	N/A	05/29/19	
			□ P □NP				
			□P □NP				
			□P □NP				
			□P □NP				
			□P □NP				
			☐ P ☐NP				
		١	□ P □NP				
			□P □NP				
	·		□P □NP		•		
			□P □NP				
_		li .	☐ P ☐NP	<u>+</u>			
			□P □NP				
			 □ P □NP				
			□ P □NP				
			□ P □NP				•
			□ P □NP				
			 	_			
	·		□ P □NP				
			□ P □NP				L
			□ P □NP				
			□ P □NP				
			□ P □NP				
Comments/S	pecial Instructions:						

Page ____2 __of _____

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OrderID: 061910898

GEN-FM-10-1: Sample Transfer-One Time

Revision 4.2

Revision Date: 1/05/2016 Effective Date: 1/05/2016

EMSL Analytical, Inc. Sample Transfer Form

Receiving Lab:	EMSL- Beltsvil	le		Phone			
				Number:			
				Fax			
			Number:				
Relinquished to:	EMSL- Carle Place		Phone			,	
				Number:			
			Fax				
				Number:	<u> </u>	-1	
Does new lab hold equivalent or add							
EMSL Customer ID #		SALU50					
(if known):		Solve					
Client Name:		Salut					
Client Project:		PGCPS IAQ /19-035 Deerfiel Run ES					
Tests to be Performed:		M001					
Date Received:		5/30/19					
B . B !!		C IA IA D					
Date Relinquished:		6/4/19					
Poto Puo		1 Week					
Date Due:		1 week					
Special Instructions:							
(e.g. Work Order # , required							
qualifications, project specific							
procedures/modifications)		Date:	e: Received by (Signature): Date:				
Relinquished by (Signature):		Date:	Received by (Signature):				Date:
		6/4/9					
Relinquished by (Signature):		Date:	Received by	ed by (Signature):			Date:
Kenniquished by (Signature).		Date.	Received by	a by (signature).) Bate.
<u>Customer Agreement</u> - Please sign form and send to the receiving laboratory. By signing below, you agree to permit the							
above named receiving lab to transfer samples to a separate EMSL lab with equivalent qualifications* for analysis. The							
final report will be issued from the analyzing laboratory. Ensure any requirements are listed in special instructions.							
Name (please print):		Signature:			nt of:	<u></u>	Date:
(Figure 6)						÷	
T-Considerti							
- Courte	1 EUSL 14/19						
Cust. A							
If this is a recurring project or sample type that may require samples to be relinquished on a regular basis, a Standing							
Agraement form must be completed							

Note: If customer has been notified and approved this transfer verbally or by e-mail, the receiving lab must sign for the customer above. EMSL employee filling out form on behalf of customer shall print name of person to whom they spoke, date agreement was received, and then sign under Signature.

^{*} Receiving and analyzing labs shall be aware of required qualifications of project prior to transfer of samples.