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INDOOR AIR QUALITY EVALUATION
MOLD ANALYSIS REPORT

Indiana Avenue School #18 –
Routine Monthly Sampling

256 Indiana Avenue | Iselin, NJ 08830

Woodbridge Twp. School District
PO Box 428 School Street
Woodbridge, NJ 07095

Survey date: December 14, 2018
Inspection performed by: Michael Sorgenti

Section I — Introduction

AHERA Consultants Inc. was retained by the Woodbridge Twp. School District to conduct routine indoor air quality analysis and testing for mold in various random rooms of the Indiana Avenue School #18. This study was performed at the request of Dr. Robert Zega in response to concerns by school staff over time. A monthly schedule was established by the Woodbridge Township School District for routine sampling throughout the school year. This month, ten (10) rooms were selected for testing as well as an outside control sample.

Section II — Physical Inspection

Existing Conditions

On December 14, 2018, I Michael Sorgenti, Project Manager from AHERA Consultants, Inc. arrived at the Indiana Avenue School to examine ten rooms designated by Dr. Zega and the School Principal for testing.

I visually inspected the areas of concern and my findings are as follows:

Room 2: No visible signs of mold were noted. Area has 1x1 spline ceiling and plaster walls. 9x9 tile flooring. Unit ventilator is on, active windows, & AC unit in window is off at the time of testing. No stains and no visible signs of water infiltration.

Room 4: No visible signs of mold were noted. Area has 1x1 spline ceiling and plaster walls. 12x12 tile flooring. Unit ventilator is on, active windows, & AC unit in window is off at the time of testing. No stains and no visible signs of water infiltration.

Room 7: No visible signs of mold were noted. Area has 2x4 drop ceiling tile and plaster walls and sheet rock walls. 9x9 tile flooring. Unit ventilator is on, active windows, & AC unit in window is off at the time of testing. No stains and no visible signs of water infiltration.

Room 13: No visible signs of mold were noted. Area has 1x1 spline ceiling and plaster walls. 9x9 tile flooring. Unit ventilator is on, active windows, & AC unit in window is off at the time of testing. No stains and no visible signs of water infiltration.

Room 14: No visible signs of mold were noted. Area has 1x1 spline ceiling and plaster walls. 9x9 tile flooring. Unit ventilator is on, active windows, & AC unit in window is off at the time of testing. No stains and no visible signs of water infiltration.

Room 26: No visible signs of mold were noted. Area has 2x4 drop ceiling tiles and block walls. 12x12 tile flooring. (Area appears to have effervescent coming through the block walls-possible calcium.) Unit ventilator is on & AC unit in window is on at the time of testing. Dehumidifier is on.

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Room 27: No visible signs of mold were noted. Area has 2x4 drop ceiling tiles and block walls. 12x12 tile flooring. (Area appears to have effervescent coming through the block walls-possible calcium.) Unit ventilator is on & AC unit in window is on at the time of testing. Dehumidifier is on.

Room 28: No visible signs of mold were noted. Area has 2x4 drop ceiling tiles and block walls. 12x12 tile flooring. (Area appears to have effervescent coming through the block walls-possible calcium.) Unit ventilator is on & AC unit in window is on at the time of testing. Dehumidifier is on.

Room 30: No visible signs of mold were noted. Area has 2x4 drop ceiling tiles and block walls. 12x12 tile flooring. (Area appears to have effervescent coming through the block walls-possible calcium.) Unit ventilator is on & AC unit in window is on at the time of testing. Dehumidifier is on.

Room 31: No visible signs of mold were noted. Area has 2x4 drop ceiling tiles and block walls. 12x12 tile flooring. (Area appears to have effervescent coming through the block walls-possible calcium.) Unit ventilator is on & AC unit in window is on at the time of testing. Dehumidifier is on.

Based on our observations and sampling plan discussed with the School District, I determined that I would conduct ambient Air-o-Cell air sampling and assess the current air quality conditions with respect to temperature, humidity, carbon dioxide (CO^2) carbon monoxide (CO) within the spaces and collect a sample outside the building as a control sample.

Section III — Sampling Procedures

- ◊ A visual inspection was performed within each area for evidence of conditions that might contribute to microbial proliferation.

- ◊ Indoor air quality measurements for temperature, humidity, CO^2 and CO were taken utilizing a Model 7545 IAQ-Calc Indoor Air Quality Meter in above listed areas as well as a control sample outside the rear entrance.

- ◊ An Air Sampling Pump calibrated to 15 LPM was set up in each area of concern; additionally, an outdoor control sample was collected. Air sampling for airborne fungi was performed utilizing Zefon Air-O-Cell Cassettes. 150 liters of air was drawn through each sample. The sampling media was submitted to EMSL Analytical Laboratories in Piscataway, NJ for analysis. Air samples were analyzed within a 48-hour turnaround period.

Section IV — Testing Results

◊ **Table 1: Air -O-Cell Sampling Results** December 10, 2018

ANALYSIS OF FUNGAL SPORES & PARTICULATES BY OPTICAL MICROSCOPY: AIR-O-CELL Cassette

SAMPLE ID #	SAMPLE LOCATION	PARTICLE ID	COUNT/ m3
3262-1210-01	Room 2		
		Total Fungi	**None Detected**
3262-1210-02	Room 4	Basidiospores	40
		Total Fungi	**40**
		Pollen	**20**
3262-1210-03	Room 7	Bispora	20
		Total Fungi	**20**
3262-1210-04	Room 13	Ascospores	20
		Basidiospores	20
		Myxomycetes	20
		Total Fungi	**60**
3262-1210-05	Room 14	Aspergillus / Penicillium	100
		Basidiospores	20
		Myxomycetes	20
		Total Fungi	**140**
3262-1210-06	Room 26	Basidiospores	20
		Myxomycetes	20
		Total Fungi	**40**
3262-1210-07	Room 27	Aspergillus / Penicillium	230
		Cladosporium	20
		Myxomycetes	20
		Total Fungi	**270**
3262-1210-08	Room 28	Basidiospores	20
		Myxomycetes	20
		Total Fungi	**40**
3262-1210-09	Room 30	Aspergillus / Penicillium	40
		Myxomycetes	20
		Total Fungi	**60**
3262-1210-10	Room 31	Cladosporium	40
		Total Fungi	**40**
3262-1210-11	Outside Control Sample	Alternaria (Ulocladium)	80
		Aspergillus/Penicillium	80
		Cladosporium	2460
		Myxomycetes	80
		Rust	40
		Pestalotia/Pestalotiopsis	20
		Total Fungi	**2760**

Results: Levels of fungi found in the spaces were generally lower to what was found on the outside control sample and is indicative to the time of year and temperature.

Section V — Interpretation of Results

At this time, there are no governmental standards regarding Indoor Air Quality. The Occupational Safety and Health Association (OSHA) and the National Institute of Occupational Safety and Health (NIOSH), as well as other occupational health related associations, have not established permissible exposure levels (PELs), recommended exposure limits (RELs), or other limit values for aeroallergens. (See EMSL Expanded Fungal Report) provided herein.

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Most of the fungi detected in typical indoor investigations are considered common to both indoor and outdoor environments. These include species that belong to the genera Cladosporium, Aspergillus, Penicillium, Alternaria, Basidiospores and others. False negative and false positive data are possible. However, it is generally accepted in the "indoor air quality" industry that indoor fungal growth is undesirable and may necessitate removal or other appropriate remedial actions.

No remedial project should be based solely on data obtained from culturable fungal bioaerosols to represent a threshold value having a medical or health significance with respect to exposure, nor is it necessarily representative of an unacceptable indoor environment. Rather, it is intended to be a "reactionary threshold" to incite further investigation as to the cause(s) of what is considered to be an above average concentration for culturable indoor bioaerosols.

Under the Public Employees Occupational Safety and Health Program there is currently an indoor air quality standard for the state of New Jersey (NJAC 12:100-13). Additionally, there are recommendations under ASHRAE "The American Society of Heating, Refrigeration, and Air Conditioning Engineers for the Indoor Environment.

Under NJAC 12:100-13 a range of 68 to 79 degrees Fahrenheit is the desired temperature range to maintain with Carbon Dioxide (CO^2) not exceeding 1000 ppm. If Carbon Dioxide (CO^2) exceeds 1000 ppm, the HVAC system should be evaluated for proper operation.

ASHRAE recommends that a relative humidity between 30% and 60% are acceptable, readings in excess of 70% is considered a friendly environment to microorganisms such as mold.

Carbon Monoxide (CO) levels based on OSHA limits long-term workplace exposure levels to 50 ppm over an 8-hour time weighted average. The Threshold Limit Value or TLV for carbon monoxide is 25 ppm.

Section VI — Observations/Recommended Response Actions

Findings: The results of the ambient air sample sampling from all areas tested during this round of testing found spore counts less than the outside control sample or did not detect spores in the area tested. CO^2 levels in all areas screened during this assessment were also well below levels of concern.

Recommendations: To prevent creating environments that would promote mold proliferation all sources of excessive moisture/water infiltration should be identified, controlled and/or eliminated when/if they occur.

Clutter should be kept to a minimum and routine maintenance of HVAC systems should be followed.

IAQ Calc Data Sheets
EMSL laboratory report

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IAQ Investigation Log		
Test ID:	**Indiana Avenue School #18**	**Room 2**
Model Number:	7545	
Serial Number:	T75451321002	
Test ID:	1	
Test Abbreviation:	Test 001	
Start Date:	12/10/2018	
Start Time:	16:17:48	
Duration (dd:hh:mm:ss):	0:00:01:02	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 001	

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Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	**ppm**	**deg F**	**%rh**	**ppm**
	Average:	575	74.9	21.4	14.7
	Minimum:	558	74.9	21.2	14.5
	Time of Minimum:	16:18:36	16:18:36	16:18:50	16:18:24
	Date of Minimum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018
	Maximum:	610	75	21.6	14.8
	Time of Maximum:	16:17:53	16:17:53	16:17:53	16:17:53
	Date of Maximum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018

Calibration	Meter:	6/21/2018			
Calibration	**Sensor:**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
	Cal. Date	6/21/2018	6/21/2018	6/21/2018	6/21/2018

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	**hh:mm:ss**	**ppm**	**deg F**	**%rh**	**ppm**
12/10/2018	16:17:53	610	75	21.6	14.8
12/10/2018	16:18:08	583	75	21.4	14.8
12/10/2018	16:18:24	563	75	21.3	14.5
12/10/2018	16:18:36	558	74.9	21.3	14.7
12/10/2018	16:18:50	559	74.9	21.2	14.7

IAQ Investigation Log		
Test ID:	**Indiana Avenue School #18**	**Room 4**
Model Number:	7545	
Serial Number:	T75451321002	
Test ID:	2	
Test Abbreviation:	Test 002	
Start Date:	12/10/2018	
Start Time:	16:24:28	
Duration (dd:hh:mm:ss):	0:00:01:13	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 002	

Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	**ppm**	**deg F**	**%rh**	**ppm**
	Average:	509	72.5	19.6	14
	Minimum:	503	72.4	19.5	13.9
	Time of Minimum:	16:24:50	16:25:08	16:24:50	16:24:50
	Date of Minimum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018
	Maximum:	514	72.7	19.7	14.2
	Time of Maximum:	16:25:41	16:24:33	16:25:26	16:24:33
	Date of Maximum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018

Calibration	Meter:	6/21/2018			
Calibration	**Sensor:**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
	Cal. Date	6/21/2018	6/21/2018	6/21/2018	6/21/2018

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	**hh:mm:ss**	**ppm**	**deg F**	**%rh**	**ppm**
12/10/2018	16:24:33	510	72.7	19.5	14.2
12/10/2018	16:24:50	503	72.5	19.5	13.9
12/10/2018	16:25:08	509	72.4	19.6	14
12/10/2018	16:25:26	510	72.5	19.7	14
12/10/2018	16:25:41	514	72.5	19.7	13.9

IAQ Investigation Log		
Test ID:	**Indiana Avenue School #18**	**Room 7**
Model Number:	7545	
Serial Number:	T75451321002	
Test ID:	3	
Test Abbreviation:	Test 003	
Start Date:	12/10/2018	
Start Time:	16:40:43	
Duration (dd:hh:mm:ss):	0:00:01:05	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 003	

Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	**ppm**	**deg F**	**%rh**	**ppm**
	Average:	521	76.1	15.6	12.9
	Minimum:	507	75.4	15.4	12.8
	Time of Minimum:	16:40:48	16:40:48	16:41:48	16:41:48
	Date of Minimum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018
	Maximum:	560	76.6	15.9	13.1
	Time of Maximum:	16:41:04	16:41:48	16:40:48	16:40:48
	Date of Maximum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018

Calibration	Meter:	6/21/2018			
Calibration	**Sensor:**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
	Cal. Date	6/21/2018	6/21/2018	6/21/2018	6/21/2018

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	**hh:mm:ss**	**ppm**	**deg F**	**%rh**	**ppm**
12/10/2018	16:40:48	507	75.4	15.9	13.1
12/10/2018	16:41:04	560	76.2	15.8	12.8
12/10/2018	16:41:18	516	76.1	15.5	13
12/10/2018	16:41:33	509	76.3	15.5	12.8
12/10/2018	16:41:48	512	76.6	15.4	12.8

IAQ Investigation Log		
Test ID:	**Indiana Avenue School #18**	**Room 13**
Model Number:	7545	
Serial Number:	T75451321002	
Test ID:	4	
Test Abbreviation:	Test 004	
Start Date:	12/10/2018	
Start Time:	16:57:58	
Duration (dd:hh:mm:ss):	0:00:01:11	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 004	

Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	**ppm**	**deg F**	**%rh**	**ppm**
	Average:	554	76	16.1	13.5
	Minimum:	532	75.9	15.6	13.5
	Time of Minimum:	16:59:09	16:59:09	16:58:52	16:58:03
	Date of Minimum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018
	Maximum:	595	76.1	17.1	13.5
	Time of Maximum:	16:58:03	16:58:03	16:58:03	16:58:34
	Date of Maximum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018

Calibration	Meter:	6/21/2018			
Calibration	**Sensor:**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
	Cal. Date	6/21/2018	6/21/2018	6/21/2018	6/21/2018

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	**hh:mm:ss**	**ppm**	**deg F**	**%rh**	**ppm**
12/10/2018	16:58:03	595	76.1	17.1	13.5
12/10/2018	16:58:18	564	76	16.3	13.5
12/10/2018	16:58:34	538	75.9	15.7	13.5
12/10/2018	16:58:52	541	75.9	15.6	13.5
12/10/2018	16:59:09	532	75.9	15.6	13.5

IAQ Investigation Log		
Test ID:	**Indiana Avenue School #18**	**Room 14**
Model Number:	7545	
Serial Number:	T75451321002	
Test ID:	5	
Test Abbreviation:	Test 005	
Start Date:	12/10/2018	
Start Time:	17:13:27	
Duration (dd:hh:mm:ss):	0:00:01:15	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 005	

Statistics	**Channel:**	**CO2 - Carbon Dioxide**	**T - Temperature**	**H - Humidity**	**CO - Carbon Monoxide**
	Units:	**ppm**	**deg F**	**%rh**	**ppm**
	Average:	561	71.6	19.1	12.4
	Minimum:	550	71.5	19	12.3
	Time of Minimum:	17:14:42	17:14:42	17:14:42	17:13:32
	Date of Minimum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018
	Maximum:	577	71.9	19.5	12.4
	Time of Maximum:	17:13:32	17:13:32	17:13:50	17:14:42
	Date of Maximum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018

Calibration	**Meter:**	6/21/2018			
Calibration	**Sensor:**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
	Cal. Date	6/21/2018	6/21/2018	6/21/2018	6/21/2018

Date	**Time**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
MM/DD/YYYY	**hh:mm:ss**	**ppm**	**deg F**	**%rh**	**ppm**
12/10/2018	17:13:32	577	71.9	19	12.3
12/10/2018	17:13:50	557	71.7	19.5	12.3
12/10/2018	17:14:06	560	71.5	19.2	12.4
12/10/2018	17:14:24	559	71.5	19	12.4
12/10/2018	17:14:42	550	71.5	19	12.4

IAQ Investigation Log		
Test ID:	**Indiana Avenue School #18**	**Room 26**
Model Number:	7545	
Serial Number:	T75451321002	
Test ID:	6	
Test Abbreviation:	Test 006	
Start Date:	12/10/2018	
Start Time:	17:24:10	
Duration (dd:hh:mm:ss):	0:00:01:11	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 006	

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Statistics	**Channel:**	**CO2 - Carbon Dioxide**	**T - Temperature**	**H - Humidity**	**CO - Carbon Monoxide**
	Units:	**ppm**	**deg F**	**%rh**	**ppm**
	Average:	536	72.2	15.9	11.8
	Minimum:	526	72	15.6	11.7
	Time of Minimum:	17:25:21	17:24:37	17:24:37	17:24:15
	Date of Minimum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018
	Maximum:	564	72.7	16.4	12.1
	Time of Maximum:	17:24:15	17:24:15	17:24:15	17:25:09
	Date of Maximum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018

Calibration	**Meter:**	6/21/2018			
Calibration	**Sensor:**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
	Cal. Date	6/21/2018	6/21/2018	6/21/2018	6/21/2018

Date	**Time**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
MM/DD/YYYY	**hh:mm:ss**	**ppm**	**deg F**	**%rh**	**ppm**
12/10/2018	17:24:15	564	72.7	16.4	11.7
12/10/2018	17:24:37	532	72	15.6	11.8
12/10/2018	17:24:50	529	72.1	15.7	11.8
12/10/2018	17:25:09	530	72.2	15.9	12.1
12/10/2018	17:25:21	526	72.2	15.8	11.8

IAQ Investigation Log		
Test ID:	**Indiana Avenue School #18**	**Room 27**
Model Number:	7545	
Serial Number:	T75451321002	
Test ID:	7	
Test Abbreviation:	Test 007	
Start Date:	12/10/2018	
Start Time:	17:39:05	
Duration (dd:hh:mm:ss):	0:00:01:10	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 007	

Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	**ppm**	**deg F**	**%rh**	**ppm**
	Average:	555	70.7	17.7	11.1
	Minimum:	546	70.5	17.5	11.1
	Time of Minimum:	17:39:45	17:39:45	17:39:45	17:39:59
	Date of Minimum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018
	Maximum:	565	71.1	17.8	11.1
	Time of Maximum:	17:39:10	17:39:10	17:40:15	17:39:10
	Date of Maximum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018

Calibration	Meter:	6/21/2018			
Calibration	**Sensor:**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
	Cal. Date	6/21/2018	6/21/2018	6/21/2018	6/21/2018

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	**hh:mm:ss**	**ppm**	**deg F**	**%rh**	**ppm**
12/10/2018	17:39:10	565	71.1	17.7	11.1
12/10/2018	17:39:25	552	70.9	17.6	11.1
12/10/2018	17:39:45	546	70.5	17.5	11.1
12/10/2018	17:39:59	563	70.6	17.7	11.1
12/10/2018	17:40:15	551	70.6	17.8	11.1

IAQ Investigation Log		
Test ID:	**Indiana Avenue School #18**	**Room 28**
Model Number:	7545	
Serial Number:	T75451321002	
Test ID:	8	
Test Abbreviation:	Test 008	
Start Date:	12/10/2018	
Start Time:	17:49:10	
Duration (dd:hh:mm:ss):	0:00:01:26	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 008	

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Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	**ppm**	**deg F**	**%rh**	**ppm**
	Average:	602	70.4	18.8	10.8
	Minimum:	585	70.3	18.5	10.7
	Time of Minimum:	17:49:15	17:50:21	17:49:15	17:49:15
	Date of Minimum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018
	Maximum:	639	70.5	19	11
	Time of Maximum:	17:49:54	17:49:15	17:49:54	17:50:21
	Date of Maximum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018

Calibration	Meter:	6/21/2018			
Calibration	**Sensor:**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
	Cal. Date	6/21/2018	6/21/2018	6/21/2018	6/21/2018

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	**hh:mm:ss**	**ppm**	**deg F**	**%rh**	**ppm**
12/10/2018	17:49:15	585	70.5	18.5	10.7
12/10/2018	17:49:38	592	70.4	18.6	10.8
12/10/2018	17:49:54	639	70.4	19	10.8
12/10/2018	17:50:21	596	70.3	18.8	11
12/10/2018	17:50:36	599	70.4	18.9	11

IAQ Investigation Log		
Test ID:	**Indiana Avenue School #18**	**Room 30**
Model Number:	7545	
Serial Number:	T75451321002	
Test ID:	9	
Test Abbreviation:	Test 009	
Start Date:	12/10/2018	
Start Time:	18:05:58	
Duration (dd:hh:mm:ss):	0:00:01:16	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 009	

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Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	**ppm**	**deg F**	**%rh**	**ppm**
	Average:	553	71.7	15.7	10.3
	Minimum:	546	71.6	15.6	10.3
	Time of Minimum:	18:07:14	18:06:03	18:07:00	18:06:44
	Date of Minimum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018
	Maximum:	555	71.8	15.9	10.4
	Time of Maximum:	18:06:20	18:06:44	18:06:03	18:07:14
	Date of Maximum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018

Calibration	Meter:	1/0/1900			
Calibration	**Sensor:**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
	Cal. Date	6/21/2018	6/21/2018	6/21/2018	6/21/2018

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	**hh:mm:ss**	**ppm**	**deg F**	**%rh**	**ppm**
12/10/2018	18:06:03	555	71.6	15.9	10.3
12/10/2018	18:06:20	555	71.6	15.8	10.3
12/10/2018	18:06:44	555	71.8	15.7	10.3
12/10/2018	18:07:00	554	71.7	15.6	10.4
12/10/2018	18:07:14	546	71.7	15.6	10.4

IAQ Investigation Log		
Test ID:	**Indiana Avenue School #18**	**Room 31**
Model Number:	7545	
Serial Number:	T75451321002	
Test ID:	10	
Test Abbreviation:	Test 010	
Start Date:	12/10/2018	
Start Time:	18:17:58	
Duration (dd:hh:mm:ss):	0:00:01:08	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 010	

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Statistics	**Channel:**	**CO2 - Carbon Dioxide**	**T - Temperature**	**H - Humidity**	**CO - Carbon Monoxide**
	Units:	**ppm**	**deg F**	**%rh**	**ppm**
	Average:	618	70.6	18	10.3
	Minimum:	611	70.5	17.8	10.2
	Time of Minimum:	18:18:21	18:18:53	18:18:35	18:18:21
	Date of Minimum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018
	Maximum:	623	70.9	18.5	10.4
	Time of Maximum:	18:18:53	18:18:03	18:18:03	18:18:03
	Date of Maximum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018

Calibration	**Meter:**	6/21/2018			
Calibration	**Sensor:**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
	Cal. Date	6/21/2018	6/21/2018	6/21/2018	6/21/2018

Date	**Time**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
MM/DD/YYYY	**hh:mm:ss**	**ppm**	**deg F**	**%rh**	**ppm**
12/10/2018	18:18:03	619	70.9	18.5	10.4
12/10/2018	18:18:21	611	70.7	17.9	10.2
12/10/2018	18:18:35	618	70.6	17.8	10.2
12/10/2018	18:18:53	623	70.5	17.9	10.2
12/10/2018	18:19:06	618	70.5	17.9	10.3

IAQ Investigation Log		
Test ID:	**Indiana Avenue School #18**	**Outside - Control**
Model Number:	7545	
Serial Number:	T75451321002	
Test ID:	11	
Test Abbreviation:	Test 011	
Start Date:	12/10/2018	
Start Time:	18:31:29	
Duration (dd:hh:mm:ss):	0:00:00:57	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 011	

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Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	**ppm**	**deg F**	**%rh**	**ppm**
	Average:	558	31.6	52.9	6.7
	Minimum:	554	30.9	51.4	6.3
	Time of Minimum:	18:32:00	18:32:26	18:31:34	18:32:26
	Date of Minimum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018
	Maximum:	564	32	54.6	7.2
	Time of Maximum:	18:31:45	18:31:34	18:32:26	18:31:34
	Date of Maximum:	12/10/2018	12/10/2018	12/10/2018	12/10/2018

Calibration	Meter:	6/21/2018			
Calibration	**Sensor:**	**CO2 - Carbon Dioxide**	**T-Temperature**	**H-Humidity**	**CO - Carbon Monoxide**
	Cal. Date	6/21/2018	6/21/2018	6/21/2018	6/21/2018

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	**hh:mm:ss**	**ppm**	**deg F**	**%rh**	**ppm**
12/10/2018	18:31:34	562	32	51.4	7.2
12/10/2018	18:31:45	564	31.8	52.3	6.9
12/10/2018	18:32:00	554	31.7	52.9	6.8
12/10/2018	18:32:14	555	31.7	53.3	6.5
12/10/2018	18:32:26	554	30.9	54.6	6.3

EMSL Analytical, Inc.

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EMSL Order: 051806536
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Customer PO:
Project ID: Woodbridge School #18

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Fax: (609) 652-1140
Collected: 12/10/2018
Received: 12/10/2018
Analyzed: 12/12/2018

Project: 18-3262/Woodbridge Twp School District, PO Box 428-School Street, Woodbridge, NJ 07095-Indiana Avenue School #18-IAQ Monitoring (Woodbridge School #18)

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

Lab Sample Number:	051806536-0001			051806536-0002			051806536-0003		
Client Sample ID:	32621210-01			32621210-02			32621210-03		
Volume (L):	150			150			150		
Sample Location	Room 2			Room 4			Room 7		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	-	-	-	2	40	100	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Bispora	-	-	-	-	-	-	1	20	100
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Total Fungi	**-**	**None Detect**	**-**	**2**	**40**	**100**	**1**	**20**	**100**
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1	20	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	2	-

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

No discernable field blank was submitted with this group of samples.

Chaiyut Sae Lao, 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. Piscataway, NJ AIHA-LAP, LLC--EMLAP Accredited #167035

Initial report from: 12/13/2018 08:25:49

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

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Project ID: Woodbridge School #18

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Received: 12/10/2018
Analyzed: 12/12/2018

Project: 18-3262/Woodbridge Twp School District, PO Box 428-School Street, Woodbridge, NJ 07095-Indiana Avenue School #18-IAQ Monitoring (Woodbridge School #18)

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

Lab Sample Number:	051806536-0004			051806536-0005			051806536-0006		
Client Sample ID:	32621210-04			32621210-05			32621210-06		
Volume (L):	150			150			150		
Sample Location	Room 13			Room 14			Room 26		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	1	20	33.3	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	7	100	71.4	-	-	-
Basidiospores	1	20	33.3	1	20	14.3	1	20	50
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	20	33.3	1	20	14.3	1	20	50
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Bispora	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Total Fungi	**3**	**60**	**100**	**9**	**140**	**100**	**2**	**40**	**100**
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	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.

No discernable field blank was submitted with this group of samples.

Chaiyut Sae Lao, 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. Piscataway, NJ AIHA-LAP, LLC--EMLAP Accredited #167035

Initial report from: 12/13/2018 08:25:49

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Collected: 12/10/2018
Received: 12/10/2018
Analyzed: 12/12/2018

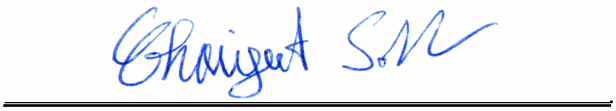
Project: 18-3262/Woodbridge Twp School District, PO Box 428-School Street, Woodbridge, NJ 07095-Indiana Avenue School #18-IAQ Monitoring (Woodbridge School #18)

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

Lab Sample Number:	051806536-0007			051806536-0008			051806536-0009		
Client Sample ID:	32621210-07			32621210-08			32621210-09		
Volume (L):	150			150			150		
Sample Location	Room 27			Room 8			Room 30		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	11	230	85.2	-	-	-	2	40	66.7
Basidiospores	-	-	-	1	20	50	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	20	7.4	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	20	7.4	1	20	50	1	20	33.3
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Bispora	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Total Fungi	**13**	**270**	**100**	**2**	**40**	**100**	**3**	**60**	**100**
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	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.

No discernable field blank was submitted with this group of samples.



Chaiyut Sae Lao, Laboratory Manager
or other approved signatory

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Initial report from: 12/13/2018 08:25:49

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Customer ID: AHER50
Customer PO:
Project ID: Woodbridge School #18

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Phone: (609) 652-1833
Fax: (609) 652-1140
Collected: 12/10/2018
Received: 12/10/2018
Analyzed: 12/12/2018

Project: 18-3262/Woodbridge Twp School District, PO Box 428-School Street, Woodbridge, NJ 07095-Indiana Avenue School #18-IAQ Monitoring (Woodbridge School #18)

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

Lab Sample Number:	**051806536-0010**			**051806536-0011**					
Client Sample ID:	**32621210-10**			**32621210-11**					
Volume (L):	**150**			**150**					
Sample Location	**Room 31**			**Outside Control**					
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**			
Alternaria (Ulocladium)	-	-	-	4	80	2.9			
Ascospores	-	-	-	-	-	-			
Aspergillus/Penicillium	-	-	-	4	80	2.9			
Basidiospores	-	-	-	-	-	-			
Bipolaris++	-	-	-	-	-	-			
Chaetomium	-	-	-	-	-	-			
Cladosporium	2	40	100	120	2460	89.1			
Curvularia	-	-	-	-	-	-			
Epicoccum	-	-	-	-	-	-			
Fusarium	-	-	-	-	-	-			
Ganoderma	-	-	-	-	-	-			
Myxomycetes++	-	-	-	4	80	2.9			
Pithomyces++	-	-	-	-	-	-			
Rust	-	-	-	2	40	1.4			
Scopulariopsis/Microascus	-	-	-	-	-	-			
Stachybotrys/Memnoniella	-	-	-	-	-	-			
Unidentifiable Spores	-	-	-	-	-	-			
Zygomycetes	-	-	-	-	-	-			
Bispora	-	-	-	-	-	-			
Pestalotia/Pestalotiopsis	-	-	-	1	20	0.7			
Total Fungi	**2**	**40**	**100**	**135**	**2760**	**100**			
Hyphal Fragment	-	-	-	-	-	-			
Insect Fragment	-	-	-	-	-	-			
Pollen	-	-	-	-	-	-			
Analyt. Sensitivity 600x	-	21	-	-	21	-			
Analyt. Sensitivity 300x	-	7*	-	-	7*	-			
Skin Fragments (1-4)	-	1	-	-	2	-			
Fibrous Particulate (1-4)	-	1	-	-	1	-			
Background (1-5)	-	1	-	-	2	-			

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

No discernable field blank was submitted with this group of samples.

Chaiyut Sae Lao, Laboratory Manager
or other approved signatory

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Initial report from: 12/13/2018 08:25:49

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051806536

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MICROBIOLOGY – CHAIN OF CUSTODY

Date Collected 12/10/2018	Date Submitted: 12/10/2018

Contact:	John Smoyer	**Company:**	AHERA Consultants, Inc.
Client:	Woodbridge Twp School District		PO Box 385
	PO Box 428 - School Street		Oceanville, NJ 08231-0385
	Woodbridge, NJ 07095	**Phone:**	(609) 652-1833
		Fax:	(609) 652-1140
Job Number:	**18-3262**	**E-mail:**	ahera@comcast.net

Project Name: Indiana Avenue School #18 – IAQ Monitoring

Air Samples

- [x] Mold & Fungi by Air-O-Cell Cassette (Select turnaround time)
- [ ] Mold & Fungi by Agar Plate (Count & identification)
- [ ] Mold & Fungi by Agar Plate (Count only)
- [ ] Bacterial Count & Gram Stain
- [ ] Bacterial Count & Identification (Three most prominent types)

Water Samples

- [ ] Total Count, Coliforms, Fecal Coliforms (Specify)_____
- [ ] Other (Specify)_____

Wipe & Bulk Samples

- [ ] Mold & Fungi – Direct Examination (Select turnaround time) Submit cellophane tape sample or bulk
- [ ] Mold & Fungi – Direct Examination- Follow up examination by culture if necessary
- [ ] Mold & Fungi – Culture (ID & Count)
- [ ] Mold & Fungi – Culture (Count only)
- [ ] Bacterial Count & Gram Stain
- [ ] Bacterial Count & Identification (Three most prominent types)

RECEIVED
DEC 10 2018
BY 7:15 pm WI
EMSL PISCATAWAY

TURN AROUND TIME:

[ ] SAME DAY [ ] 1 DAY [x] 2 DAY [ ] 3 DAY [ ] 4 DAY [ ] 5 DAY [ ] 6-10 DAY

SAMPLE ID	LOCATION	VOLUME	COMMENTS
32621210-01	Room 2	150L	Q-001
32621210-02	Room 4	150L	Q-002
32621210-03	Room 7	150L	Q-003
32621210-04	Room 13	150L	Q-004
32621210-05	Room 14	150L	Q-005
32621210-06	Room 26	150L	Q006
32621210-07	Room 27	150L	Q-007
32621210-08	Room 28	150L	Q-008
32621210-09	Room 30	150L	Q-009
32621210-10	Room 31	150L	Q-010
32621210-11	Outside-Control	150L	Q-011

Relinquished by:	Technician Signature:	Date: 12/10/2018	Time:
Received by:	Laboratory Representative.	Date:	Time: