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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:

by:

Inspection performed by:

September 24 & 25, 2019
Michael Sorgenti & John Smoyer

AHERA Consultants Inc. has been 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 District for routine sampling throughout the school year. This month, ten (10) rooms were selected for testing as well as collection of an outside control sample for comparative analysis.

Based on our observations and the sampling plan discussed with the School District, it was determined that we would conduct ambient Air-o-Cell air sampling and assess the current air quality conditions with respect to temperature, humidity, carbon dioxide (CO²) carbon monoxide (CO) utilizing a IAQ Q-Trac module within the spaces and collect a sample outside the building as a control sample.

Existing Conditions

On Tuesday, September 24, 2019, Michael Sorgenti, Project Manager from AHERA Consultants, Inc. arrived at the Indiana Avenue School and signed into the main office. Principal Chiera then escorted Mr. Sorgenti during his initial screening assessment of student and staff occupied areas. They were joined by Frank Murgittroyd who completed the screening assessment / visual and air quality analysis inspection of the 10 rooms designated by Dr. Zega and Principal Chiera for testing.

No obvious, visible areas of concern were identified i.e.: suspect mold, active water spots or wet conditions during this screening assessment, so the Q-Trac meter evaluation of CO, CO², Humidity and Temperature utilizing a conditions of the 10 rooms while the areas were under normal student loads continued.

During this screening, several of the spaces evaluated showed signs of elevated CO² levels (results found following this report pages 1-11: IAQ investigation log dated September 24, 2019). After evaluating these results, Mr. Sorgenti contacted Operations Manager, Mr. John Smoyer to discuss his findings. Mr. Smoyer reviewed the data and contacted Mr. Impaglia and Principal Chiera to discuss what immediate actions could be undertaken to reduce the concentrations of CO² levels in the areas of concern as well throughout the building.

Knowing that dilution by the introduction of fresh air into an area where CO² levels are elevated greatly assists in reduction of concentrations, we agreed that Principal Chiera would direct his staff to open classroom windows and hall doors allowing for a draft effect and that we would come back tomorrow at approximately the same time and conduct identical follow-up testing in the same areas.

By this time, Mr. Sorgenti had completed his additional mold spore testing throughout the areas delineated and had departed for the laboratory.

Mr. Smoyer personally returned on Wednesday, September 25, 2019 to conduct the follow-up Q Track readings. Principal Chiera and Mr. Smoyer began collecting Q-Trac readings and immediately realized that the current results of the CO² levels were drastically reduced from those noted yesterday. (results found following this report pages 1-11: IAQ investigation log dated

September 25, 2019) The room occupant loads were similar, but the classroom doors and windows were open, and the AC units and Unit-ventilators were also set similarly to yesterday.

After an overall evaluation of the situation at hand, Mr. Smoyer and Principal Chiera agreed to allow the staff to utilize the open window/open door practice during this time and will have the damper settings checked on the Unit-ventilators for proper operation and monitor the CO² levels of these 10 areas along with additional random areas during subsequent testing.

Additionally, as we noted for these inspections and forward, we will include a head count of room occupants where testing is performed.

Following is a narrative of the conditions noted Tuesday, September 24 & 25, 2019:

Room 9: 5 students, 1 teacher. Windows open. 2x2 drop ceiling tiles, 9x9 floor tile, plaster walls. Unit ventilator off, AC window unit off. No visible signs of mold. On September 25, 2019 23 students, 1 teacher present during Q Track readings.

Classroom 7: 20 students, 1 teacher. Windows closed. 2x2 drop ceiling tiles, 9x9 floor tile, plaster walls. Unit ventilator off, AC window unit on. No visible signs of mold. On September 25, 2019 21 students, 1 teacher present during Q Track readings.

Classroom 24: 2 students, 3 teachers. Windows closed. Block walls, 3 ceiling tiles with water stains. Unit ventilator on, AC window unit off. Dehumidifier is on. 2x4 drop ceiling tiles and 12 x 12 floor tiles. No visible signs of mold. On September 25, 2019 4 students, 2 teachers present during Q Track readings.

Classroom 25: 21 students, 1 teacher. Windows closed. Block walls, 2x4 drop ceiling tiles. Unit ventilator off, AC window unit off. Dehumidifier on. No visible signs of mold. No visible stains. On September 25, 2019 23 students, 1 teacher present during Q Track readings.

Classroom 26: 22 students, 1 teacher. Windows closed. Block walls, 2x4 drop ceiling tiles. Unit ventilator off, AC window unit off. Dehumidifier on. No visible signs of mold. No visible stains. On September 25, 2019 22 students, 1 teacher present during Q Track readings.

Classroom 21: 23 students, 1 teacher. Windows closed. Block walls, 2x4 drop ceiling tiles. Unit ventilator off, AC window unit on. Dehumidifier on. No visible signs of mold. No visible stains. One missing floor tile near window. On September 25, 2019 23 students, 1 teacher present during Q Track readings.

Classroom 22: 22 students, 2 teachers. Windows closed. Block walls, 2x4 drop ceiling tiles, 12x12 floor tiles. Unit ventilator off, AC window unit on. Dehumidifier on. No visible signs of mold. No visible stains. On September 25, 2019 22 students, 2 teachers present during Q Track readings.

Classroom 27: 19 students, 2 teachers. Windows closed. Block walls, 2x4 drop ceiling tiles, 12x12 floor tiles. Unit ventilator off, AC window unit on. Dehumidifier on. No visible signs of mold. No visible stains. On September 25, 2019 18 students, 1 teacher present during Q Track readings.

Classroom 28: 19 students, 1 teacher. Windows closed. Block walls, 2x4 drop ceiling tiles, 12x12 floor tiles. Unit ventilator on, AC window unit on. Dehumidifier on. No visible signs of mold. No visible stains. On September 25, 2019 22 students, 1 teacher present during Q Track readings.

Classroom 29: 21 students, 3 teachers. Windows closed. Block walls, 2x4 drop ceiling tiles, 12x12 floor tiles. Unit ventilator off, AC window unit off. Dehumidifier off. No visible signs of mold. No visible stains. On September 25, 2019 23 students, 2 teachers present during Q Track readings.

Outside Control Sample: Collected comparative samples outside.

Section III	Sampling Procedures
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- ◇ 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, CO² 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
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◇ Table 1: Air -O-Cell Sampling Results	September 24, 2019
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ANALYSIS OF FUNGAL SPORES & PARTICULATES BY OPTICAL MICROSCOPY: AIR-O-CELL Cassette

SAMPLE ID #	SAMPLE LOCATION	PARTICLE ID	COUNT/ m ³
092419-01	Classroom 9	Ascospores	900
		Aspergillus/Penicillium	100
		Basidiospores	960
		Cladosporium	800
		Ganoderma	20
		Myxomycetes	800
		Pithomyces	7
		Arthrimum	20
		Total Fungi	3607
		Hyphal Fragment	20
092419-02	Classroom 7	Ascospores	550
		Aspergillus/Penicillium	80
		Basidiospores	530
		Cladosporium	270
		Ganoderma	40
		Myxomycetes	100
		Paecilomyces-like	20
		Torula-like	20
		Total Fungi	1610

SAMPLE ID#	SAMPLE LOCATION	PARTICLE ID	COUNT/m3
092419-03	Classroom 24	Ascospores	1100
		Aspergillus/Penicillium	210
		Basidiospores	980
		Cladosporium	490
		Curvularia	7
		Myxomycetes	40
		Pithomyces	20
		Myoenterolobum	7
		Polythrificum	7
		Total Fungi	2861
	Pollen	10	
092419-04	Classroom 25	Ascospores	250
		Aspergillus/Penicillium	230
		Basidiospores	290
		Cladosporium	200
		Pithomyces	7
		Total Fungi	977
092419-05	Classroom 26	Ascospores	40
		Aspergillus/Penicillium	60
		Basidiospores	1300
		Cladosporium	200
		Ganoderma	7
		Pithomyces	20
		Total Fungi	1647
092419-06	Classroom 21	Ascospores	40
		Aspergillus/Penicillium	60
		Basidiospores	200
		Cladosporium	60
		Curvularia	7
		Myxomycetes	20
		Rust	7
		Total Fungi	394
092419-07	Classroom 22	Ascospores	40
		Aspergillus/Penicillium	40
		Basidiospores	290
		Myxomycetes	20
		Total Fungi	390
092419-08	Classroom 27	Aspergillus/Penicillium	20
		Basidiospores	200
		Cladosporium	40
		Myxomycetes	20
		Total Fungi	280
092419-09	Classroom 28	Basidiospores	20
		Myxomycete	7
		Total Fungi	27
092419-10	Classroom 29	Ascospores	20
		Aspergillus/Penicillium	210
		Basidiospores	350
		Cladosporium	60
		Curvularia	20
		Myxomycetes	100
		Pithomyces	20
		Unidentifiable Spores	20
		Total Fungi	800
092419-11	Outside Control	Alternaria (Ulocladium)	20
		Ascospores	310
		Basidiospores	1900
		Cladosporium	128000
		Curvularia	3510
		Myxomycetes++	43500
		Pithomyces	330
		Rust	60
		Diplocladiella	20
		Paecilomyces-like	100
		Pestalotia/Pestalotiopsis	20
		Torula-like	80
		Total Fungi	177870

Results: Levels of fungi found in the spaces were in line with what was found on the outside control sample.

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.

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 (CO²) not exceeding 1000 ppm. If Carbon Dioxide (CO²) 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.

Findings:

The results of the ambient air sample sampling from the areas tested during this round found spore counts to be in line with the outside control sample. During the first day of testing, most of the areas tested showed CO² levels above 1000 ppm, it is important to note that this testing was performed towards the end of the school day. We then performed a follow-up visit at approximately the same time under different occupant varied conditions to re-evaluate CO² levels. Although several rooms were approaching 1000 ppm only rooms 27, 28 were slightly in excess. Room 27 door was closed on the during the follow-up assessment and the student's in Room 28 were departing for the gym at the time of testing. We will continue to monitor CO² levels in these areas.

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.

Consult HVAC contractor to find out steps to increase air exchanges utilizing existing UV system as well as increasing fresh air exchanges.

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

IAQ Calc Data Sheets (22 Pages)
EMSL laboratory report (5 Pages)

IAQ Investigation Log	
Test ID:	School #18 Classroom # 9
Model Number:	7545
Serial Number:	T75451819008
Test ID:	1
Test Abbreviation:	Test 001
Start Date:	9/24/2019
Start Time:	13:21:07
Duration (dd:hh:mm:ss):	0:00:01:15
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 001



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	588	76.7	49.6	1
	Minimum:	557	76.5	49.2	1
	Time of Minimum:	13:22:04	13:21:12	13:22:04	13:22:22
	Date of Minimum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019
	Maximum:	618	76.9	50.1	1
	Time of Maximum:	13:21:28	13:22:22	13:21:28	13:21:46
	Date of Maximum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/24/2019	13:21:12	596	76.5	49.9	1
9/24/2019	13:21:28	618	76.7	50.1	1
9/24/2019	13:21:46	603	76.8	49.5	1
9/24/2019	13:22:04	557	76.8	49.2	1
9/24/2019	13:22:22	566	76.9	49.2	1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 7
Model Number:	7545
Serial Number:	T75451819008
Test ID:	2
Test Abbreviation:	Test 002
Start Date:	9/24/2019
Start Time:	13:24:39
Duration (dd:hh:mm:ss):	0:00:01:22
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 002



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	1481	74.3	43.7	1.2
	Minimum:	1439	73.6	42.2	1
	Time of Minimum:	13:25:30	13:26:01	13:25:04	13:25:04
	Date of Minimum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019
	Maximum:	1514	75.4	45.6	1.4
	Time of Maximum:	13:25:04	13:24:44	13:25:30	13:25:45
	Date of Maximum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/24/2019	13:24:44	1492	75.4	43.4	1.2
9/24/2019	13:25:04	1514	74.5	42.2	1
9/24/2019	13:25:30	1439	74.2	45.6	1.1
9/24/2019	13:25:45	1467	73.9	43.6	1.4
9/24/2019	13:26:01	1494	73.6	43.7	1.2

IAQ Investigation Log	
Test ID:	School #18 Classroom # 24
Model Number:	7545
Serial Number:	T75451819008
Test ID:	3
Test Abbreviation:	Test 003
Start Date:	9/24/2019
Start Time:	13:28:27
Duration (dd:hh:mm:ss):	0:00:01:18
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 003



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	952	76.8	50.8	0.9
	Minimum:	911	76.2	49.6	0.9
	Time of Minimum:	13:29:32	13:28:32	13:29:45	13:29:32
	Date of Minimum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019
	Maximum:	1015	77.1	52.6	1
	Time of Maximum:	13:28:32	13:29:45	13:28:32	13:28:32
	Date of Maximum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/24/2019	13:28:32	1015	76.2	52.6	1
9/24/2019	13:28:48	972	76.6	51.2	1
9/24/2019	13:29:11	935	76.9	50.5	0.9
9/24/2019	13:29:32	911	77.1	50	0.9
9/24/2019	13:29:45	926	77.1	49.6	0.9

IAQ Investigation Log	
Test ID:	School #18 Classroom # 25
Model Number:	7545
Serial Number:	T75451819008
Test ID:	4
Test Abbreviation:	Test 004
Start Date:	9/24/2019
Start Time:	13:31:44
Duration (dd:hh:mm:ss):	0:00:01:41
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 004



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	1957	77.9	51.4	1
	Minimum:	1946	77.5	50.6	1
	Time of Minimum:	13:32:19	13:31:49	13:33:08	13:31:49
	Date of Minimum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019
	Maximum:	1966	78.1	52	1.1
	Time of Maximum:	13:33:25	13:33:08	13:32:19	13:32:19
	Date of Maximum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/24/2019	13:31:49	1951	77.5	51.8	1
9/24/2019	13:32:19	1946	77.8	52	1.1
9/24/2019	13:32:49	1961	77.9	51.1	1
9/24/2019	13:33:08	1963	78.1	50.6	1.1
9/24/2019	13:33:25	1966	78	51.3	1.1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 26
Model Number:	7545
Serial Number:	T75451819008
Test ID:	5
Test Abbreviation:	Test 005
Start Date:	9/24/2019
Start Time:	13:35:05
Duration (dd:hh:mm:ss):	0:00:01:10
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 005



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	2275	73.4	51.7	1.4
	Minimum:	2261	73.2	49.1	1.1
	Time of Minimum:	13:35:10	13:36:15	13:35:10	13:36:15
	Date of Minimum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019
	Maximum:	2292	73.7	52.9	1.6
	Time of Maximum:	13:36:01	13:35:10	13:35:31	13:35:31
	Date of Maximum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/24/2019	13:35:10	2261	73.7	49.1	1.5
9/24/2019	13:35:31	2273	73.5	52.9	1.6
9/24/2019	13:35:45	2288	73.5	52.7	1.5
9/24/2019	13:36:01	2292	73.3	51.9	1.3
9/24/2019	13:36:15	2263	73.2	51.9	1.1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 21
Model Number:	7545
Serial Number:	T75451819008
Test ID:	6
Test Abbreviation:	Test 006
Start Date:	9/24/2019
Start Time:	13:38:34
Duration (dd:hh:mm:ss):	0:00:01:20
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 006



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	2483	75.3	59.6	0.9
	Minimum:	2426	74.9	58.9	0.9
	Time of Minimum:	13:39:36	13:38:39	13:39:36	13:39:36
	Date of Minimum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019
	Maximum:	2581	75.7	60.9	1
	Time of Maximum:	13:38:39	13:39:54	13:38:39	13:38:39
	Date of Maximum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/24/2019	13:38:39	2581	74.9	60.9	1
9/24/2019	13:38:57	2505	75.1	60	1
9/24/2019	13:39:18	2455	75.4	59.3	1
9/24/2019	13:39:36	2426	75.5	58.9	0.9
9/24/2019	13:39:54	2447	75.7	59.1	1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 22
Model Number:	7545
Serial Number:	T75451819008
Test ID:	7
Test Abbreviation:	Test 007
Start Date:	9/24/2019
Start Time:	13:41:37
Duration (dd:hh:mm:ss):	0:00:01:31
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 007



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	2645	76.4	56.6	1
	Minimum:	2577	76.2	56	1
	Time of Minimum:	13:42:22	13:41:42	13:43:08	13:43:08
	Date of Minimum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019
	Maximum:	2706	76.7	57.3	1.1
	Time of Maximum:	13:42:51	13:43:08	13:41:42	13:42:22
	Date of Maximum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/24/2019	13:41:42	2669	76.2	57.3	1.1
9/24/2019	13:42:03	2613	76.4	56.9	1.1
9/24/2019	13:42:22	2577	76.4	56.4	1.1
9/24/2019	13:42:51	2706	76.6	56.6	1
9/24/2019	13:43:08	2659	76.7	56	1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 27
Model Number:	7545
Serial Number:	T75451819008
Test ID:	8
Test Abbreviation:	Test 008
Start Date:	9/24/2019
Start Time:	13:45:26
Duration (dd:hh:mm:ss):	0:00:01:23
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 008



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	1940	72.3	44.5	1.1
	Minimum:	1915	71.7	43.8	1
	Time of Minimum:	13:45:50	13:46:49	13:45:50	13:46:49
	Date of Minimum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019
	Maximum:	1971	73.6	44.9	1.2
	Time of Maximum:	13:46:35	13:45:31	13:46:49	13:45:50
	Date of Maximum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/24/2019	13:45:31	1950	73.6	44.2	1.1
9/24/2019	13:45:50	1915	72.6	43.8	1.2
9/24/2019	13:46:17	1933	72.1	44.9	1.1
9/24/2019	13:46:35	1971	71.8	44.8	1.2
9/24/2019	13:46:49	1932	71.7	44.9	1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 28
Model Number:	7545
Serial Number:	T75451819008
Test ID:	9
Test Abbreviation:	Test 009
Start Date:	9/24/2019
Start Time:	13:48:39
Duration (dd:hh:mm:ss):	0:00:01:34
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 009



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	1801	72.3	52.5	1
	Minimum:	1770	71.9	51.9	1
	Time of Minimum:	13:48:44	13:48:44	13:48:44	13:50:13
	Date of Minimum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019
	Maximum:	1827	72.5	53.4	1
	Time of Maximum:	13:49:20	13:50:13	13:50:13	13:48:44
	Date of Maximum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/24/2019	13:48:44	1770	71.9	51.9	1
9/24/2019	13:49:20	1827	72.2	52.4	1
9/24/2019	13:49:35	1811	72.4	52	1
9/24/2019	13:49:58	1790	72.4	52.9	1
9/24/2019	13:50:13	1806	72.5	53.4	1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 29
Model Number:	7545
Serial Number:	T75451819008
Test ID:	10
Test Abbreviation:	Test 010
Start Date:	9/24/2019
Start Time:	13:52:27
Duration (dd:hh:mm:ss):	0:00:01:13
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 010



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	774	74.8	52.1	0.8
	Minimum:	725	74.3	51.3	0.7
	Time of Minimum:	13:52:49	13:52:32	13:53:06	13:53:24
	Date of Minimum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019
	Maximum:	818	75.2	53.2	0.9
	Time of Maximum:	13:53:40	13:53:40	13:52:32	13:52:49
	Date of Maximum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/24/2019	13:52:32	816	74.3	53.2	0.8
9/24/2019	13:52:49	725	74.6	51.8	0.9
9/24/2019	13:53:06	729	74.8	51.3	0.8
9/24/2019	13:53:24	782	75.1	51.7	0.7
9/24/2019	13:53:40	818	75.2	52.6	0.8

IAQ Investigation Log	
Test ID:	School #18 Outside Control Sample
Model Number:	7545
Serial Number:	T75451819008
Test ID:	11
Test Abbreviation:	Test 011
Start Date:	9/24/2019
Start Time:	13:59:02
Duration (dd:hh:mm:ss):	0:00:00:53
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 011



Statistics	Channel:	CO ² - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	407	77.2	45.1	0.5
	Minimum:	398	76.6	43.4	0.2
	Time of Minimum:	13:59:45	13:59:07	13:59:33	13:59:45
	Date of Minimum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019
	Maximum:	421	78	47.9	1
	Time of Maximum:	13:59:19	13:59:19	13:59:07	13:59:07
	Date of Maximum:	9/24/2019	9/24/2019	9/24/2019	9/24/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO ² - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/24/2019	13:59:07	407	76.6	47.9	1
9/24/2019	13:59:19	421	78	46.8	0.9
9/24/2019	13:59:33	409	76.9	43.4	0.3
9/24/2019	13:59:45	398	77.1	43.8	0.2
9/24/2019	13:59:55	400	77.3	43.8	0.3

Classroom # 9	
Test ID:	School #18 Classroom # 9
Model Number:	7545
Serial Number:	T75451819008
Test ID:	12
Test Abbreviation:	Test 012
Start Date:	9/25/2019
Start Time:	13:17:32
Duration (dd:hh:mm:ss):	0:00:01:02
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 012



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	554	75	48.3	1
	Minimum:	498	74.8	47.9	1
	Time of Minimum:	13:18:34	13:17:37	13:18:34	13:18:34
	Date of Minimum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019
	Maximum:	608	75.2	48.8	1
	Time of Maximum:	13:17:37	13:18:34	13:17:37	13:17:37
	Date of Maximum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019

Calibration	Meter:	5/10/2019
Calibration	Sensor:	CO2 - Carbon Dioxide
	Cal. Date	5/10/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/25/2019	13:17:37	608	74.8	48.8	1
9/25/2019	13:17:50	582	74.9	48.5	1
9/25/2019	13:18:06	577	75	48.3	1
9/25/2019	13:18:24	506	75.1	48	1
9/25/2019	13:18:34	498	75.2	47.9	1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 7
Model Number:	7545
Serial Number:	T75451819008
Test ID:	13
Test Abbreviation:	Test 013
Start Date:	9/25/2019
Start Time:	13:19:01
Duration (dd:hh:mm:ss):	0:00:01:24
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 013



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	805	75.9	51.2	1
	Minimum:	729	75.5	50.7	1
	Time of Minimum:	13:19:06	13:19:06	13:20:25	13:20:25
	Date of Minimum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019
	Maximum:	890	76.1	51.4	1
	Time of Maximum:	13:19:59	13:20:10	13:19:59	13:19:06
	Date of Maximum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/25/2019	13:19:06	729	75.5	51.2	1
9/25/2019	13:19:33	759	75.9	51.3	1
9/25/2019	13:19:59	890	76	51.4	1
9/25/2019	13:20:10	831	76.1	51.3	1
9/25/2019	13:20:25	815	76.1	50.7	1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 24
Model Number:	7545
Serial Number:	T75451819008
Test ID:	14
Test Abbreviation:	Test 014
Start Date:	9/25/2019
Start Time:	13:21:17
Duration (dd:hh:mm:ss):	0:00:01:22
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 014



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	695	76.3	49.3	1
	Minimum:	637	75.5	48.9	0.9
	Time of Minimum:	13:21:56	13:21:22	13:22:39	13:22:25
	Date of Minimum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019
	Maximum:	777	76.9	50.3	1
	Time of Maximum:	13:21:22	13:22:39	13:21:22	13:21:22
	Date of Maximum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/25/2019	13:21:22	777	75.5	50.3	1
9/25/2019	13:21:37	699	76	49.3	1
9/25/2019	13:21:56	637	76.7	49.2	1
9/25/2019	13:22:25	702	76.5	49	0.9
9/25/2019	13:22:39	659	76.9	48.9	1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 25
Model Number:	7545
Serial Number:	T75451819008
Test ID:	15
Test Abbreviation:	Test 015
Start Date:	9/25/2019
Start Time:	13:23:03
Duration (dd:hh:mm:ss):	0:00:01:32
Log Interval (mm:ss):	0:05
Number of points:	6
Notes:	Test 015



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	928	77.3	49.4	1
	Minimum:	759	76.3	47.8	0.9
	Time of Minimum:	13:23:08	13:23:08	13:23:08	13:24:35
	Date of Minimum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019
	Maximum:	1077	78	50.2	1.1
	Time of Maximum:	13:24:02	13:24:22	13:23:50	13:23:08
	Date of Maximum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/25/2019	13:23:08	759	76.3	47.8	1.1
9/25/2019	13:23:21	930	77	49.8	1.1
9/25/2019	13:23:50	992	77.1	50.2	1
9/25/2019	13:24:02	1077	77.5	50.1	1
9/25/2019	13:24:22	915	78	49.5	1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 26
Model Number:	7545
Serial Number:	T75451819008
Test ID:	16
Test Abbreviation:	Test 016
Start Date:	9/25/2019
Start Time:	13:25:24
Duration (dd:hh:mm:ss):	0:00:01:23
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 016



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	819	76.7	48.4	1
	Minimum:	777	76.5	48	1
	Time of Minimum:	13:25:29	13:26:47	13:26:47	13:25:56
	Date of Minimum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019
	Maximum:	854	76.8	49	1.1
	Time of Maximum:	13:26:13	13:25:56	13:26:13	13:25:29
	Date of Maximum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/25/2019	13:25:29	777	76.8	48.2	1.1
9/25/2019	13:25:56	807	76.8	48.6	1
9/25/2019	13:26:13	854	76.8	49	1.1
9/25/2019	13:26:32	849	76.6	48.4	1
9/25/2019	13:26:47	811	76.5	48	1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 21
Model Number:	7545
Serial Number:	T75451819008
Test ID:	17
Test Abbreviation:	Test 017
Start Date:	9/25/2019
Start Time:	13:27:16
Duration (dd:hh:mm:ss):	0:00:01:05
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 017



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	678	76	48	1
	Minimum:	628	76	47.4	1
	Time of Minimum:	13:27:50	13:28:21	13:27:21	13:27:50
	Date of Minimum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019
	Maximum:	713	76.2	48.7	1
	Time of Maximum:	13:28:21	13:27:36	13:28:21	13:28:21
	Date of Maximum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/25/2019	13:27:21	696	76	47.4	1
9/25/2019	13:27:36	693	76.2	47.9	1
9/25/2019	13:27:50	628	76	47.6	1
9/25/2019	13:28:08	660	76	48.3	1
9/25/2019	13:28:21	713	76	48.7	1

IAQ Investigation Log		
Test ID:	School #18	Classroom # 22
Model Number:	7545	
Serial Number:	T75451819008	
Test ID:	18	
Test Abbreviation:	Test 018	
Start Date:	9/25/2019	
Start Time:	13:29:15	
Duration (dd:hh:mm:ss):	0:00:01:45	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 018	



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	924	76.2	50.3	1
	Minimum:	802	76	49.9	1
	Time of Minimum:	13:29:20	13:29:20	13:29:20	13:30:49
	Date of Minimum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019
	Maximum:	1022	76.4	50.7	1
	Time of Maximum:	13:31:00	13:31:00	13:30:17	13:29:20
	Date of Maximum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/25/2019	13:29:20	802	76	49.9	1
9/25/2019	13:30:17	921	76.2	50.7	1
9/25/2019	13:30:32	915	76.2	50.1	1
9/25/2019	13:30:49	959	76.3	50.2	1
9/25/2019	13:31:00	1022	76.4	50.4	1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 27
Model Number:	7545
Serial Number:	T75451819008
Test ID:	19
Test Abbreviation:	Test 019
Start Date:	9/25/2019
Start Time:	13:32:14
Duration (dd:hh:mm:ss):	0:00:01:26
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 019



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	1031	76.9	49.6	1
	Minimum:	942	76.5	48.8	1
	Time of Minimum:	13:33:40	13:32:19	13:33:40	13:33:40
	Date of Minimum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019
	Maximum:	1143	77.3	50.7	1.1
	Time of Maximum:	13:32:19	13:33:40	13:32:19	13:33:04
	Date of Maximum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/25/2019	13:32:19	1143	76.5	50.7	1
9/25/2019	13:32:34	1088	76.5	50	1
9/25/2019	13:32:48	987	77.1	49.5	1
9/25/2019	13:33:04	993	77	49.2	1.1
9/25/2019	13:33:40	942	77.3	48.8	1

IAQ Investigation Log	
Test ID:	School #18 Classroom # 28
Model Number:	7545
Serial Number:	T75451819008
Test ID:	20
Test Abbreviation:	Test 020
Start Date:	9/25/2019
Start Time:	13:36:26
Duration (dd:hh:mm:ss):	0:00:01:53
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 020



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	1024	72.6	45.7	1
	Minimum:	980	72	44.8	1
	Time of Minimum:	13:38:19	13:38:19	13:36:31	13:36:31
	Date of Minimum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019
	Maximum:	1072	73.2	46.2	1
	Time of Maximum:	13:37:48	13:36:31	13:38:19	13:37:02
	Date of Maximum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/25/2019	13:36:31	1050	73.2	44.8	1
9/25/2019	13:37:02	1011	72.8	45.5	1
9/25/2019	13:37:48	1072	72.7	45.9	1
9/25/2019	13:38:03	1007	72.1	45.8	1
9/25/2019	13:38:19	980	72	46.2	1

IAQ Investigation Log		
Test ID:	School #18	Classroom # 29
Model Number:	7545	
Serial Number:	T75451819008	
Test ID:	21	
Test Abbreviation:	Test 021	
Start Date:	9/25/2019	
Start Time:	13:40:08	
Duration (dd:hh:mm:ss):	0:00:01:10	
Log Interval (mm:ss):	0:05	
Number of points:	5	
Notes:	Test 021	



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	955	75.2	51.4	0.9
	Minimum:	856	74.8	49.3	0.9
	Time of Minimum:	13:41:18	13:40:13	13:41:18	13:40:36
	Date of Minimum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019
	Maximum:	1050	75.6	53.3	1
	Time of Maximum:	13:40:13	13:41:18	13:40:13	13:40:13
	Date of Maximum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/25/2019	13:40:13	1050	74.8	53.3	1
9/25/2019	13:40:36	983	74.8	52.4	0.9
9/25/2019	13:40:51	981	75.1	51.9	0.9
9/25/2019	13:41:01	907	75.6	50	1
9/25/2019	13:41:18	856	75.6	49.3	0.9

IAQ Investigation Log	
Test ID:	School #18 Outside Comparison Sample - Front Entrance
Model Number:	7545
Serial Number:	T75451819008
Test ID:	22
Test Abbreviation:	Test 022
Start Date:	9/25/2019
Start Time:	13:48:59
Duration (dd:hh:mm:ss):	0:00:00:57
Log Interval (mm:ss):	0:05
Number of points:	5
Notes:	Test 022



Statistics	Channel:	CO2 - Carbon Dioxide	T - Temperature	H - Humidity	CO - Carbon Monoxide
	Units:	ppm	deg F	%rh	ppm
	Average:	410	77.5	44.2	0.7
	Minimum:	394	75.8	40.9	0.2
	Time of Minimum:	13:49:33	13:49:04	13:49:56	13:49:56
	Date of Minimum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019
	Maximum:	460	79.2	45.5	1
	Time of Maximum:	13:49:04	13:49:56	13:49:04	13:49:21
	Date of Maximum:	9/25/2019	9/25/2019	9/25/2019	9/25/2019

Calibration	Meter:	5/10/2019			
Calibration	Sensor:	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
	Cal. Date	5/10/2019	5/10/2019	5/10/2019	5/10/2019

Date	Time	CO2 - Carbon Dioxide	T-Temperature	H-Humidity	CO - Carbon Monoxide
MM/DD/YYYY	hh:mm:ss	ppm	deg F	%rh	ppm
9/25/2019	13:49:04	460	75.8	45.5	1
9/25/2019	13:49:21	399	76.4	44.9	1
9/25/2019	13:49:33	394	77.6	45.2	0.7
9/25/2019	13:49:44	396	78.6	44.4	0.4
9/25/2019	13:49:56	399	79.2	40.9	0.2



EMSL Analytical, Inc.

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<http://www.EMSL.com> / piscatawaylab@emsl.com

EMSL Order: 051905285
Customer ID: AHER50
Customer PO:
Project ID: Woodbridge School #18

Attn: Ahera Consultants, INC
Ahera Consultants, Inc.
PO Box 385
Oceanville, NJ 08231-0385

Phone: (609) 652-1833
Fax: (609) 652-1140
Collected: 09/24/2019
Received: 09/24/2019
Analyzed: 09/26/2019 - 09/27/2019

Project: 19-4314/Woodbridge Twsp School Dist, Indiana Avenue #18, 256 Indiana Avenue, Iselin, NJ 08830
(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: Client Sample ID: Volume (L): Sample Location	051905285-0001 092419-01 150 Room 9			051905285-0002 092419-02 150 Room 7			051905285-0003 092419-03 150 Room 24			
	Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-	-
Ascospores	44	900	25	27	550	34.2	53	1100	38.4	
Aspergillus/Penicillium	7	100	2.8	4	80	5	10	210	7.3	
Basidiospores	47	960	26.6	26	530	32.9	48	980	34.3	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	39	800	22.2	13	270	16.8	24	490	17.1	
Curvularia	-	-	-	-	-	-	1*	7*	0.2	
Ganoderma	1	20	0.6	2	40	2.5	-	-	-	
Mycomycetes++	39	800	22.2	6	100	6.2	2	40	1.4	
Pithomyces++	1*	7*	0.2	-	-	-	1	20	0.7	
Rust	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Arthrimum	1	20	0.6	-	-	-	-	-	-	
Diplocladiella	-	-	-	-	-	-	-	-	-	
Mycocentrolobium	-	-	-	-	-	-	1*	7*	0.2	
Paecilomyces-like	-	-	-	1	20	1.2	-	-	-	
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-	
Phaeotrichoconis	-	-	-	-	-	-	-	-	-	
Polythrincium	-	-	-	-	-	-	1*	7*	0.2	
Torula-like	-	-	-	1	20	1.2	-	-	-	
Total Fungi	179	3607	100	80	1610	100	141	2861	100	
Hyphal Fragment	1	20	-	-	-	-	-	-	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	2*	10*	-	
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-	
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-	
Skin Fragments (1-4)	-	2	-	-	2	-	-	2	-	
Fibrous Particulate (1-4)	-	2	-	-	2	-	-	1	-	
Background (1-5)	-	2	-	-	2	-	-	1	-	

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

Chaiyut Sae Lao, Laboratory Manager
or other approved signatory

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

Samples received in good condition unless otherwise noted. 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. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ AIHA-LAP, LLC--EMLAP Accredited #167035

Initial report from: 09/27/2019 09:34:40

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



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EMSL Order: 051905285
Customer ID: AHER50
Customer PO:
Project ID: Woodbridge School #18

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Ahera Consultants, Inc.
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Phone: (609) 652-1833
Fax: (609) 652-1140
Collected: 09/24/2019
Received: 09/24/2019
Analyzed: 09/26/2019 - 09/27/2019

Project: 19-4314/Woodbridge Twsp School Dist, Indiana Avenue #18, 256 Indiana Avenue, Iselin, NJ 08830
(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:	051905285-0004			051905285-0005			051905285-0006		
Client Sample ID:	092419-04			092419-05			092419-06		
Volume (L):	150			150			150		
Sample Location	Room 25			Room 26			Room 21		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	12	250	25.6	3	60	3.6	2	40	10.2
Aspergillus/Penicillium	11	230	23.5	3	60	3.6	3	60	15.2
Basidiospores	14	290	29.7	61	1300	78.9	8	200	50.8
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	8	200	20.5	9	200	12.1	3	60	15.2
Curvularia	-	-	-	-	-	-	1*	7*	1.8
Ganoderma	-	-	-	1*	7*	0.4	-	-	-
Myxomycetes++	-	-	-	-	-	-	1	20	5.1
Pithomyces++	1*	7*	0.7	1	20	1.2	-	-	-
Rust	-	-	-	-	-	-	1*	7*	1.8
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Arthrimum	-	-	-	-	-	-	-	-	-
Diplocladiella	-	-	-	-	-	-	-	-	-
Mycoenterolobium	-	-	-	-	-	-	-	-	-
Paecilomyces-like	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Phaeotrichoconis	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Torula-like	-	-	-	-	-	-	-	-	-
Total Fungi	46	977	100	78	1647	100	19	394	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	2	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	2	-

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

Chaiyut Sae Lao, Laboratory Manager
or other approved signatory

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

Samples received in good condition unless otherwise noted. 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. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ AIHA-LAP, LLC--EMLAP Accredited #167035

Initial report from: 09/27/2019 09:34:40

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



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EMSL Order: 051905285
Customer ID: AHER50
Customer PO:
Project ID: Woodbridge School #18

Attn: Ahera Consultants, INC
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Phone: (609) 652-1833
Fax: (609) 652-1140
Collected: 09/24/2019
Received: 09/24/2019
Analyzed: 09/26/2019 - 09/27/2019

Project: 19-4314/Woodbridge Twsp School Dist, Indiana Avenue #18, 256 Indiana Avenue, Iselin, NJ 08830
(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:	051905285-0007			051905285-0008			051905285-0009		
Client Sample ID:	092419-07			092419-08			092419-09		
Volume (L):	150			150			150		
Sample Location	Room 22			Room 27			Room 28		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	2	40	10.3	-	-	-	-	-	-
Aspergillus/Penicillium	2	40	10.3	1	20	7.1	-	-	-
Basidiospores	14	290	74.4	9	200	71.4	1	20	74.1
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	2	40	14.3	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	20	5.1	1	20	7.1	1*	7*	25.9
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Arthrinium	-	-	-	-	-	-	-	-	-
Diplocladiella	-	-	-	-	-	-	-	-	-
Mycoenterolobium	-	-	-	-	-	-	-	-	-
Paecilomyces-like	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Phaeotrichoconis	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Torula-like	-	-	-	-	-	-	-	-	-
Total Fungi	19	390	100	13	280	100	2	27	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	1	-	-	1	-

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

Chaiyut Sae Lao, Laboratory Manager
or other approved signatory

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

Samples received in good condition unless otherwise noted. 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. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ AIHA-LAP, LLC--EMLAP Accredited #167035

Initial report from: 09/27/2019 09:34:40

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EMSL Order: 051905285
Customer ID: AHER50
Customer PO:
Project ID: Woodbridge School #18

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PO Box 385
Oceanville, NJ 08231-0385

Phone: (609) 652-1833
Fax: (609) 652-1140
Collected: 09/24/2019
Received: 09/24/2019
Analyzed: 09/26/2019 - 09/27/2019

Project: 19-4314/Woodbridge Twsp School Dist, Indiana Avenue #18, 256 Indiana Avenue, Iselin, NJ 08830
(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: Client Sample ID: Volume (L): Sample Location	051905285-0010 092419-10 150 Room 29			051905285-0011 092419-11 150 Outside/Main Entrance					
	Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total		
Alternaria (Ulocladium)	-	-	-	1	20	0	-	-	-
Ascospores	1	20	2.5	15	310	0.2	-	-	-
Aspergillus/Penicillium	10	210	26.3	-	-	-	-	-	-
Basidiospores	17	350	43.8	93	1900	1.1	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	3	60	7.5	6240	128000	72	-	-	-
Curvularia	1	20	2.5	171	3510	2	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	6	100	12.5	2120	43500	24.5	-	-	-
Pithomyces++	1	20	2.5	16	330	0.2	-	-	-
Rust	-	-	-	3	60	0	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	1	20	2.5	-	-	-	-	-	-
Arthrimum	-	-	-	-	-	-	-	-	-
Diplocladiella	-	-	-	1	20	0	-	-	-
Mycocentrolobium	-	-	-	-	-	-	-	-	-
Paecilomyces-like	-	-	-	6	100	0.1	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	1	20	0	-	-	-
Phaeotrichoconis	-	-	-	1	20	0	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Torula-like	-	-	-	4	80	0	-	-	-
Total Fungi	40	800	100	8672	177870	100			
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	-	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	-	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	-	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	-	-
Background (1-5)	-	3	-	-	2	-	-	-	-

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

Chaiyut Sae Lao, Laboratory Manager
or other approved signatory

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

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Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ AIHA-LAP, LLC--EMLAP Accredited #167035

Initial report from: 09/27/2019 09:34:40

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051905285



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 PHONE: 609.652.1833
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MICROBIOLOGY – CHAIN OF CUSTODY

Date Collected: 09/24/2019 Date Submitted: 09/24/2019

Contact: <i>Michael Sargent</i>	Company: AHERA Consultants, Inc.
Client: Woodbridge Twsp. School Dist.	PO Box 385
Indiana Avenue #18	Oceanville, NJ 08231-0385
256 Indiana Avenue	Phone: (609) 652-1833
Iselin, NJ 08830	Fax: (609) 652-1140
Job Number: 19-4314	E-mail: ahera@comcast.net

Project Name:

<p>Air Samples</p> <p><input checked="" type="checkbox"/> Mold & Fungi by Air-O-Cell Cassette (Select turn around time)</p> <p><input type="checkbox"/> Mold & Fungi by Agar Plate (Count & identification)</p> <p><input type="checkbox"/> Mold & Fungi by Agar Plate (Count only)</p> <p><input type="checkbox"/> Bacterial Count & Gram Stain</p> <p><input type="checkbox"/> Bacterial Count & Identification (Three most prominent types)</p> <p>Water Samples</p> <p><input type="checkbox"/> Total Count, Coliforms, Fecal Coliforms (Specify) _____</p> <p><input type="checkbox"/> Other (Specify) _____</p>	<p>Wipe & Bulk Samples</p> <p><input type="checkbox"/> Mold & Fungi – Direct Examination (Select turn around time) Submit cellophane tape sample or bulk</p> <p><input type="checkbox"/> Mold & Fungi – Direct Examination- Follow up examination by culture if necessary</p> <p><input type="checkbox"/> Mold & Fungi – Culture (ID & Count)</p> <p><input type="checkbox"/> Mold & Fungi – Culture (Count only)</p> <p><input type="checkbox"/> Bacterial Count & Gram Stain</p> <p><input type="checkbox"/> Bacterial Count & Identification (Three most prominent types)</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

RECEIVED

SEP 24 2019

BY *Nm 6:55 AM WIT*

EMSL PISCATAWAY

TURN AROUND TIME:
 SAME DAY 1 DAY 2 DAY 3 DAY 4 DAY 5 DAY 6-10 DAY

SAMPLE ID	LOCATION	VOLUME	COMMENTS
092419-01	Room 9	150L	Q-001
092419-02	Room 7	150L	Q-002
092419-03	Room 24	150L	Q-003
092419-04	Room 25	150L	Q-004
092419-05	Room 26	150L	Q-005
092419-06	Room 21	150L	Q-006
092419-07	Room 22	150L	Q-007
092419-08	Room 27	150L	Q-008
092419-09	Room 28	150L	Q-009
092419-10	Room 29	150L	Q-010
092419-11	Outside / Main Entrance	150L	Q-011
Relinquished by:	Technician Signature: <i>Michael Sargent</i>	Date: 09/24/2019	Time:
Received by:	Laboratory Representative:	Date:	Time: