

3 October 2017

Mr. Michael Losasso
Antinozzi Associates
271 Fairfield Avenue
Bridgeport, Connecticut 06604

**RE: Addendum #2: PCB Air Sampling Results – 3rd Round
Francis Walsh Intermediate School
Branford, Connecticut
Langan Project No. 140139902**

Dear Mr. Losasso:

The following report is the second addendum to Langan CT, Inc.'s (Langan's) PCB Indoor Air and Surface Dust Wipe Sampling report, dated 5 September 2017. Addendum #2 documents the results of a third round of PCB indoor air sampling, completed on 21 September 2017, in the large gymnasium, girls' locker room and boys' locker room at the Francis Walsh Intermediate School (FWIS) located at 185 Damascus Road in Branford, Connecticut.

BACKGROUND

As part of the preparation effort for a new school renovation project, Langan was engaged to conduct a Hazardous Building Materials (HBM) survey at FWIS. The HBM survey report was completed in September 2016 and it identified PCBs greater than 50 ppm in some of the interior sealant compounds. Concentrations ranged from non-detect to 59,000 ppm.

In August of 2017, Langan was engaged to conduct indoor air and wipe sampling for PCBs prior to opening for the 2017/2018 school year as part of the renovation application process. A summary of sample results is presented below:

- 23 air samples collected:
 - All 23 sample results <500 ng/m³
 - 21 sample results <300 ng/m³; 2 sample results >300 ng/m³:
 - Large Gym: PCBs = 407.2 ng/m³
 - Pool: PCBs = 328.7 ng/m³
- 28 wipe samples collected:
 - All 28 samples <1.0 µg/100 cm²

The Superintendent and First Selectman immediately restricted access to the wing of the school that contained the large gym, girls' and boys' locker rooms, auxiliary gym and pool (designated as AREA #2 on the attached figures).

A preliminary assessment of the HVAC systems for AREA #2 identified a number of system components that were not operating properly, resulting in insufficient air circulation and elevated temperatures in these spaces. Manual adjustments to the systems were made to promote better air circulation as an interim measure until the replacement parts arrive (expected in early October 2017).

Upon completion of the manual adjustments, a second round of air sampling was completed in AREA #2 to determine if the increased air flow had any effect on the PCB concentrations in air. A summary of sample result is presented below:

- 6 air samples were collected (2 in large gym, 1 in pool, 1 in boys' locker room, 1 in girls' locker room and 1 in auxiliary gym):
 - All 6 sample results <500 ng/m³
 - 5 sample results <300 ng/m³; 1 sample result >300 ng/m³:
 - Boys' and Girls' Locker Rooms 67.4 and 68.1 ng/m³
 - Large Gym = 177.5 and 198.3 ng/m³
 - Pool = 256.2 ng/m³
 - Auxiliary Gym = 378.2 ng/m³

INDOOR AIR SAMPLING RESULTS – 3rd ROUND

Best Management Practices – Pre-Sampling

Closure of the large gymnasium and girls' and boys' locker rooms presented considerable logistic issues for the school, and the decision was made by the project team to complete a number of EPA Best Management Practices (BMPs) in an attempt to safely re-open those areas, with the pool and auxiliary gym to remain closed, with reopening to follow at a later date. The following BMPs were completed between 20 September and 26 September 2017:

- Wipe down of the accessible walls and horizontal surfaces in the large gym and locker rooms by a certified abatement contractor (AAIS);
- Cover accessible, exposed caulking with a hardened barrier (plywood) as an interim measure to prevent direct contact; and
- Conduct a third round of air sampling (described in detail below).

Pre-Sampling Comfort Parameters

Prior to commencing the third round of indoor air sampling, Langan recorded the following comfort parameters in the interior of the sample areas. Although not indicators of health hazards, comfort parameters, such as temperature and relative humidity, are indicators of proper air exchange in a building and were noticeably lower (improved) in AREA #2 during the third round of air sampling as follows:

| Comfort Parameters - AREA #2 | | |
|--------------------------------|------------------|--------------|
| Sampling Date | Temperature (°F) | Humidity (%) |
| Industry guidance levels | 68-79 °F | 30-60% |
| Sampling Event 1 08/16/2017 | 85°F-88°F | 80%-85% |
| Sampling Event 2 08/29/2017 | 67°F-77°F | 52%-78% |
| Sampling Event 3 09/21/2017 | 75 °F–78 °F | 61%-68% |

Indoor Air PCB Sampling Procedures

A total of five (5) air samples were collected using a sorbent, polyurethane foam (PUF) cartridge in accordance with USEPA Method TO-10A (*Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using Low Volume Polyurethane Foam (PUF) Sampling Followed by Gas Chromatographic/Multi-Detector Detection (GC/MD)*, dated January 1999 and USEPA Method 680 Modified (*Determination of Pesticides and PCBs in Water and Soil/Sediment by Gas*

Chromatography/Mass Spectrometry) dated November 1985 with Soxhlet extraction. The samples were collected at a low-flow rate of approximately three (3) liters per minute for approximately eight (8) hours, for a total volume of approximately 1,440 liters per sample. Sufficient sample volume was collected to ensure laboratory reporting limits of five (5) nanograms per cubic meter (ng/m³) or less for each of the ten (10) homolog analytes. This reporting limit allowed quantification of the data relative to the EPA guidance levels for PCBs in school building indoor air of 300 ng/m³ for elementary school aged children (6 - <12 years old) and 500 ng/m³ for middle school aged children (12 - <15 years old).

The air samples (including blanks and duplicates) were submitted under proper chain-of-custody protocol to Con-test Analytical Laboratory of East Longmeadow, Massachusetts, a NELAP and State of Connecticut Department of Public Health certified environmental testing laboratory (Connecticut # PH-0567), for PCB homolog analysis.

Indoor Air Sample Results

All five air sample results were below the EPA air guidance values for elementary school aged children (300 ng/m³). Concentrations ranged from non-detect to 146.0 ng/m³. See Table 1 for a summary of the third round of indoor air sample results and Figures 1.1 through 1.4 for the locations of each sample. Raw analytical lab data is provided in Attachment A.

A summary of the air sampling completed to date is illustrated in the table below:

| PCB Sampling Locations | PCB Air Sampling Results (ng/m ³) | | | | |
|--|---|------------------------|-----------------------|--------------------------------------|-----------------------|
| | 1 st Round | HVAC Manually Adjusted | 2 nd Round | HVAC Adjustments Wipe Down Completed | 3 rd Round |
| AREA #1 | | | | | |
| Large Gym | 407.2 | | 177.5 - 198.3 | | 146.0 – 144.7 |
| Pool | 328.7 | | 256.2 | | n/a |
| Auxiliary Gym | n/a | | 378.2 | | n/a |
| Boys' Locker Room | n/a | | 67.4 | | 74.2 |
| Girls' Locker Room | n/a | | 68.1 | | 85.2 |
| AREA#2 | | | | | |
| Classrooms, student lockers, cafeteria, etc. | 38.4 – 160.6 | | n/a | | n/a |

n/a=not applicable

Conclusions and Recommendations

Based on the three rounds of indoor air sampling performed in AREA #2 of FWIS, we conclude and recommend the following:

- With respect to the large gymnasium and the girls' and boys' locker rooms:
 - PCB concentrations in air have been below EPA Guidance value of 300 ng/m³ for two consecutive rounds of air testing.
 - Accessible areas of each room have been wiped down/cleaned.
 - Accessible PCB containing column caulking compounds have been covered with plywood as an interim measure to prevent direct contact.

- Langan recommends implementing the same or analogous BMPs at the pool and auxiliary gym areas prior to re-opening these spaces. Once BMPs are implemented, Langan also recommends collecting a sample of the pool water for PCB analysis, prior to re-opening.

If you have any questions or comments, please feel free to contact us.

Sincerely,

Langan CT, Inc.



Matthew A. Myers
Senior Hazmat Specialist



Jamie P. Barr, L.E.P.
Senior Associate/Vice President

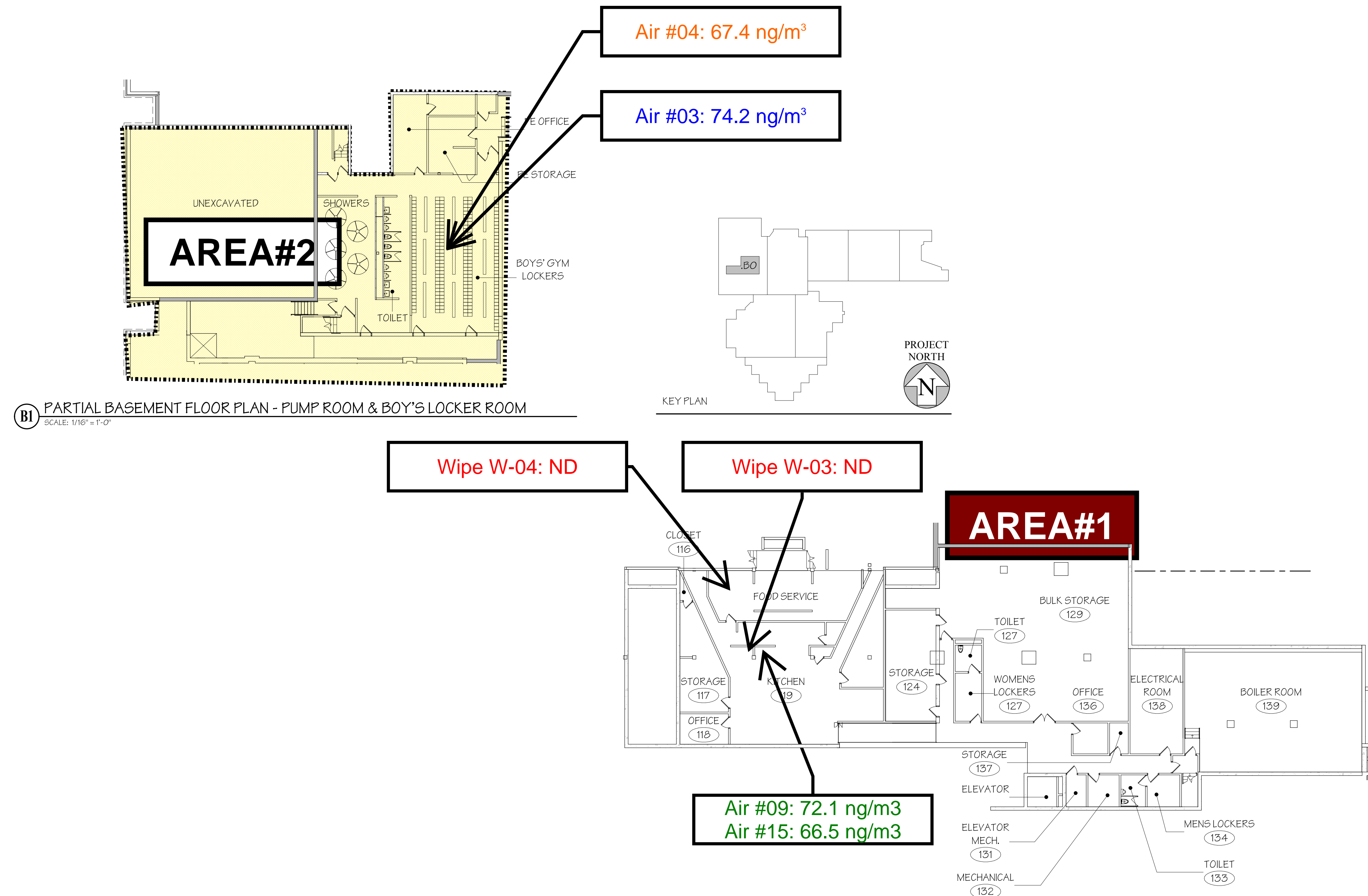
Attachments

Figures 1.1 through 1.4 – Indoor Air Sampling Locations (three rounds)

Table 1 – Air Sampling Analytical Results

Appendix A - Con-Test Analytical Laboratory Reports

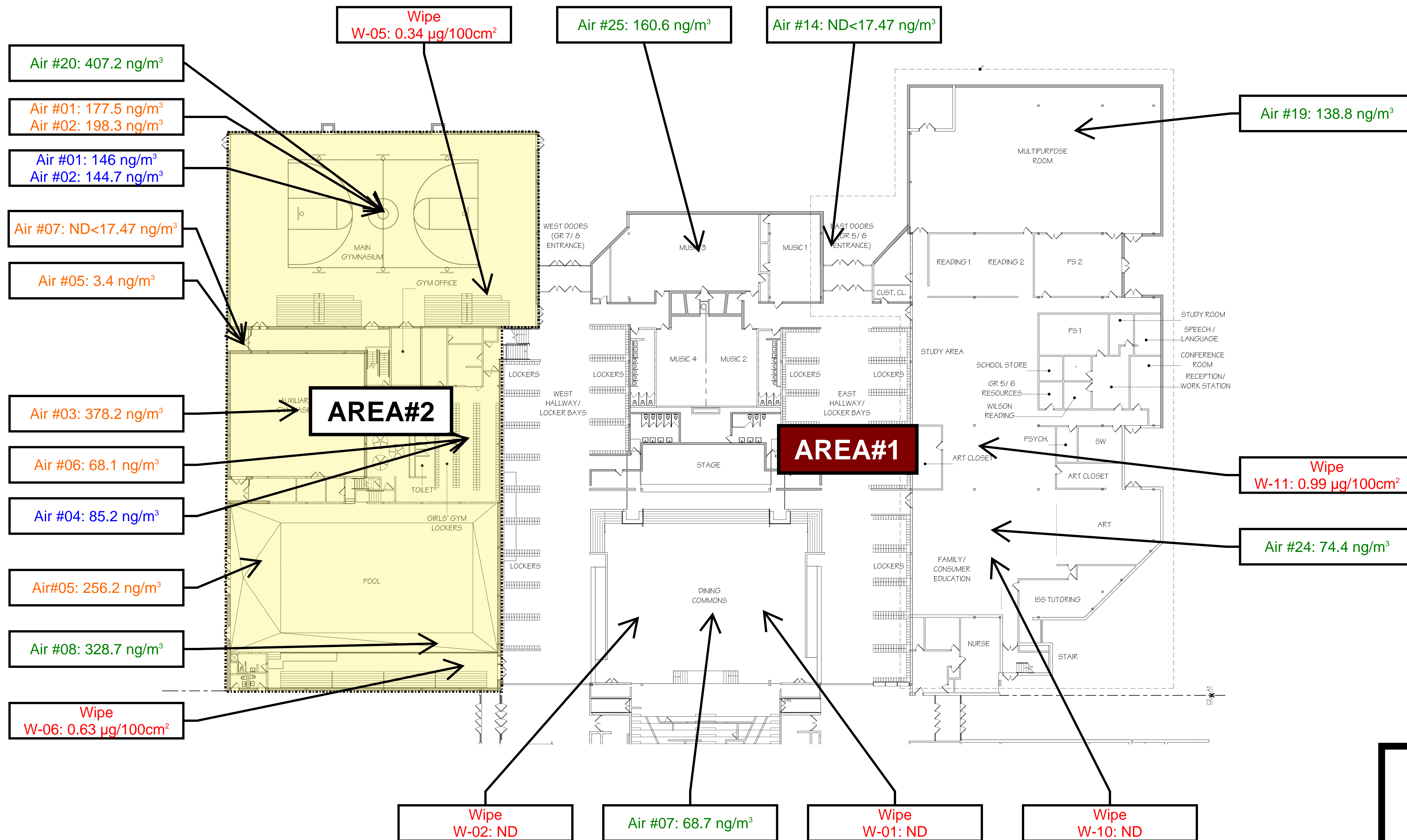
FIGURES



SAMPLE LEGEND

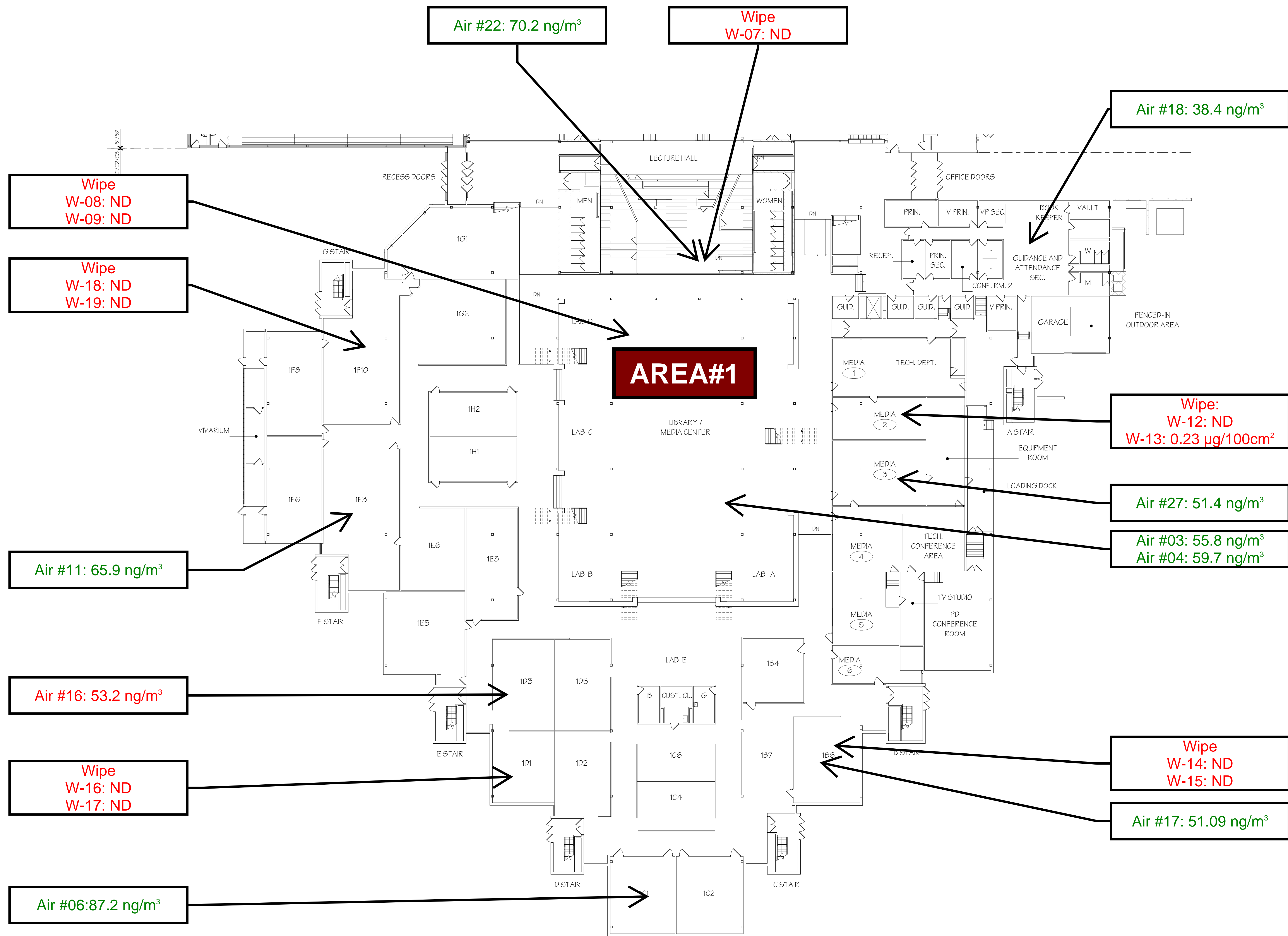
| |
|-----------------------------------|
| Wipe Samples |
| Air Samples 1 st Round |
| Air Samples 2 nd Round |
| Air Samples 3 rd Round |

NOT TO SCALE



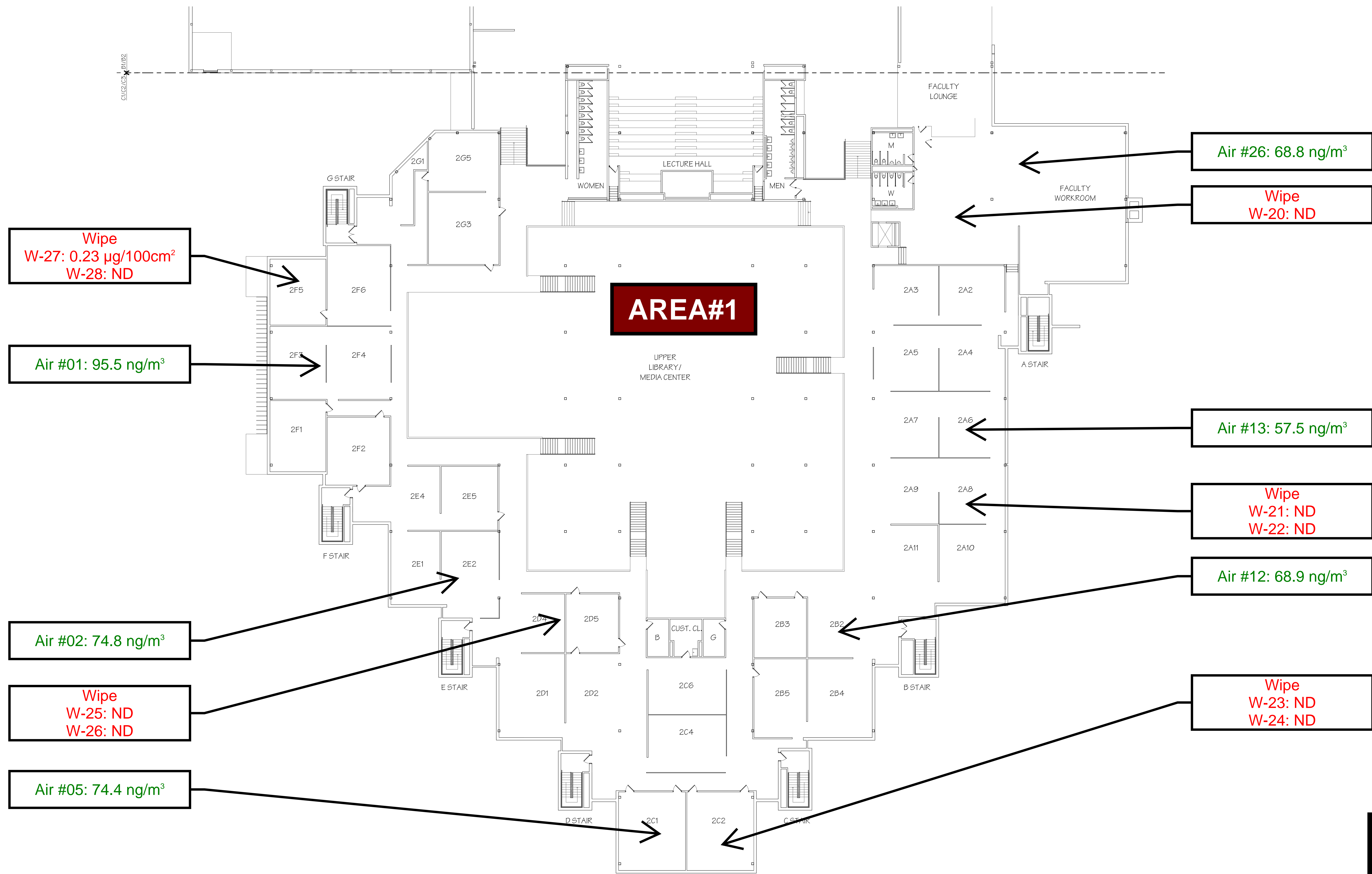
| SAMPLE LEGEND | |
|--|--|
| Wipe Samples | |
| Air Samples 1st Round | |
| Air Samples 2nd Round | |
| Air Samples 3rd Round | |

NOT TO SCALE



| SAMPLE LEGEND | |
|-----------------------------------|--|
| Wipe Samples | |
| Air Samples 1 st Round | |
| Air Samples 2 nd Round | |
| Air Samples 3 rd Round | |

NOT TO SCALE



| SAMPLE LEGEND | |
|--|--|
| Wipe Samples | |
| Air Samples 1st Round | |
| Air Samples 2nd Round | |
| Air Samples 3rd Round | |

NOT TO SCALE

TABLES

Table 1
PCB Air Sampling Analytical Results - Third Round in Area #2
Francis Walsh Intermediate School
Branford, Connecticut
Langan Project No.: 140139902

| Francis Walsh Intermediate School | | | | | | | | | | | | |
|-----------------------------------|--------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| Analyte | | Monochlorobiphenyls | Dichlorobiphenyls | Trichlorobiphenyls | Tetrachlorobiphenyls | Pentachlorobiphenyls | Hexachlorobiphenyls | Heptachlorobiphenyls | Octachlorobiphenyls | Nonachlorobiphenyls | Decachlorobiphenyl | Total PCBs (ng/m ³) |
| | | PCBs (ng/m ³) | PCBs (ng/m ³) | PCBs (ng/m ³) | PCBs (ng/m ³) | PCBs (ng/m ³) | PCBs (ng/m ³) | PCBs (ng/m ³) | PCBs (ng/m ³) | PCBs (ng/m ³) | PCBs (ng/m ³) | PCBs (ng/m ³) |
| Sample ID | Sample Location | | | | | | | | | | | |
| #01 | Large Gym | ND<0.69 | ND<0.69 | ND<0.69 | 59.0 | 76.0 | 11.0 | ND<2.1 | ND<2.1 | ND<3.5 | ND<3.5 | 146.0 |
| #02 | Large Gym | ND<0.69 | ND<0.69 | ND<0.69 | 57.0 | 78.0 | 9.7 | ND<2.1 | ND<2.1 | ND<3.5 | ND<3.5 | 144.7 |
| #03 | Boys' Locker Room | 3.4 | 2.6 | 3.2 | 31.0 | 32.0 | 2.0 | ND<2.1 | ND<2.1 | ND<3.5 | ND<3.5 | 74.2 |
| #04 | Girls' Locker Room | 3.3 | 2.8 | 4.6 | 35.0 | 36.0 | 3.5 | ND<2.1 | ND<2.1 | ND<3.5 | ND<3.5 | 85.2 |
| #05 | Outside Door 12 | ND<0.69 | ND<0.69 | ND<0.69 | 3.4 | ND<1.4 | ND<1.4 | ND<2.1 | ND<2.1 | ND<3.5 | ND<3.5 | 3.4 |

Notes:
PCBs - Polychlorinated Biphenyls
ng/m³ - nanograms per cubic meter
ND - Not detected
N/A - Not applicable
Air samples analyzed via EPA Method TO - 10A/EPA 680 Modified
EPA Guidance Levels for Evaluating PCBs in School Indoor Air:
*200 ng/m³ - Ages 3 - <6 years
*300 ng/m³ - Ages 6 - <12 years
*500 ng/m³ - Ages 12+ years
Bold value indicates exceedance of EPA Guidance Value for Ages 6 -<12 years

Date: 2 October 2017

Appendix A

Con-Test Analytical Laboratory Reports

September 25, 2017

Matt Myers
Langan Eng. & Env. Svc, Inc - CT
555 Long Wharf Drive
New Haven, CT 06511

Project Location: Branford, CT
Client Job Number:
Project Number: 140139902
Laboratory Work Order Number: 1711016

Enclosed are results of analyses for samples received by the laboratory on September 22, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a long horizontal line extending to the right.

Aaron L. Benoit
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Langan Eng. & Env. Svc, Inc - CT
555 Long Wharf Drive
New Haven, CT 06511
ATTN: Matt Myers

REPORT DATE: 9/25/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 140139902

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1711016

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Branford, CT

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|----------------------|------------|------------|--------------------|----------------------------|---------|
| #1 Large Gymnasium | 1711016-01 | Indoor air | | TO-10A/EPA 680 Modified | |
| #2 Large Gymnasium | 1711016-02 | Indoor air | | TO-10A/EPA 680 Modified | |
| #3 Boys Locker Room | 1711016-03 | Indoor air | | TO-10A/EPA 680 Modified | |
| #4 Girls Locker Room | 1711016-04 | Indoor air | | TO-10A/EPA 680 Modified | |
| #5 Outside Door 12 | 1711016-05 | Indoor air | | TO-10A/EPA 680 Modified | |
| #6 Blank | 1711016-06 | Air | | TO-10A/EPA 680 Modified | |
| #7 Blank | 1711016-07 | Air | | TO-10A/EPA 680 Modified | |

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light pink rectangular background.

Lisa A. Worthington
Project Manager

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ANALYTICAL RESULTS

Project Location: Branford, CT
Date Received: 9/22/2017
Field Sample #: #1 Large Gymnasium
Sample ID: 1711016-01

Sample Description/Location:
Sub Description/Location:

Work Order: 1711016

Sample Matrix: Indoor air
Sampled: 9/21/2017 14:50

Flow Controller ID:
Sample Type:
Air Volume L: 1440

TO-10A/EPA 680 Modified

| Analyte | Total µg | | Flag/Qual | ug/m3 | | Dilution | Date/Time | | Analyst |
|---------------------------------|------------|--------|-----------|--------------|---------|----------|---------------|-----|---------|
| | Results | RL | | Results | RL | | Analyzed | | |
| Monochlorobiphenyls | ND | 0.0010 | | ND | 0.00069 | 1 | 9/24/17 14:39 | CJM | |
| Dichlorobiphenyls | ND | 0.0010 | | ND | 0.00069 | 1 | 9/24/17 14:39 | CJM | |
| Trichlorobiphenyls | ND | 0.0010 | | ND | 0.00069 | 1 | 9/24/17 14:39 | CJM | |
| Tetrachlorobiphenyls | 0.086 | 0.0020 | | 0.059 | 0.0014 | 1 | 9/24/17 14:39 | CJM | |
| Pentachlorobiphenyls | 0.11 | 0.0020 | | 0.076 | 0.0014 | 1 | 9/24/17 14:39 | CJM | |
| Hexachlorobiphenyls | 0.016 | 0.0020 | | 0.011 | 0.0014 | 1 | 9/24/17 14:39 | CJM | |
| Heptachlorobiphenyls | ND | 0.0030 | | ND | 0.0021 | 1 | 9/24/17 14:39 | CJM | |
| Octachlorobiphenyls | ND | 0.0030 | | ND | 0.0021 | 1 | 9/24/17 14:39 | CJM | |
| Nonachlorobiphenyls | ND | 0.0050 | | ND | 0.0035 | 1 | 9/24/17 14:39 | CJM | |
| Decachlorobiphenyl | ND | 0.0050 | | ND | 0.0035 | 1 | 9/24/17 14:39 | CJM | |
| Total Polychlorinated biphenyls | 0.21 | | | 0.15 | | 1 | 9/24/17 14:39 | CJM | |
| Surrogates | % Recovery | | | % REC Limits | | | | | |
| Tetrachloro-m-xylene | 82.9 | | | 50-125 | | | 9/24/17 14:39 | | |

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ANALYTICAL RESULTS

Project Location: Branford, CT

Date Received: 9/22/2017

Field Sample #: #2 Large Gymnasium

Sample ID: 1711016-02

Sample Matrix: Indoor air

Sampled: 9/21/2017 14:51

Sample Description/Location:

Sub Description/Location:

Flow Controller ID:

Sample Type:

Air Volume L: 1440

Work Order: 1711016

TO-10A/EPA 680 Modified

| Analyte | Total µg | | Flag/Qual | ug/m3 | | Dilution | Date/Time | | Analyst |
|---------------------------------|----------|--------|-----------|---------|---------|----------|-----------|-------|---------|
| | Results | RL | | Results | RL | | Analyzed | | |
| Monochlorobiphenyls | ND | 0.0010 | | ND | 0.00069 | 1 | 9/24/17 | 15:16 | CJM |
| Dichlorobiphenyls | ND | 0.0010 | | ND | 0.00069 | 1 | 9/24/17 | 15:16 | CJM |
| Trichlorobiphenyls | ND | 0.0010 | | ND | 0.00069 | 1 | 9/24/17 | 15:16 | CJM |
| Tetrachlorobiphenyls | 0.082 | 0.0020 | | 0.057 | 0.0014 | 1 | 9/24/17 | 15:16 | CJM |
| Pentachlorobiphenyls | 0.11 | 0.0020 | | 0.078 | 0.0014 | 1 | 9/24/17 | 15:16 | CJM |
| Hexachlorobiphenyls | 0.014 | 0.0020 | | 0.0097 | 0.0014 | 1 | 9/24/17 | 15:16 | CJM |
| Heptachlorobiphenyls | ND | 0.0030 | | ND | 0.0021 | 1 | 9/24/17 | 15:16 | CJM |
| Octachlorobiphenyls | ND | 0.0030 | | ND | 0.0021 | 1 | 9/24/17 | 15:16 | CJM |
| Nonachlorobiphenyls | ND | 0.0050 | | ND | 0.0035 | 1 | 9/24/17 | 15:16 | CJM |
| Decachlorobiphenyl | ND | 0.0050 | | ND | 0.0035 | 1 | 9/24/17 | 15:16 | CJM |
| Total Polychlorinated biphenyls | 0.21 | | | 0.14 | | 1 | 9/24/17 | 15:16 | CJM |

| Surrogates | % Recovery | % REC Limits | |
|----------------------|------------|--------------|---------------|
| Tetrachloro-m-xylene | 78.3 | 50-125 | 9/24/17 15:16 |

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ANALYTICAL RESULTS

Project Location: Branford, CT

Date Received: 9/22/2017

Field Sample #: #3 Boys Locker Room

Sample ID: 1711016-03

Sample Matrix: Indoor air

Sampled: 9/21/2017 14:55

Sample Description/Location:

Sub Description/Location:

Work Order: 1711016

Flow Controller ID:

Sample Type:

Air Volume L: 1440

TO-10A/EPA 680 Modified

| Analyte | Total µg | | Flag/Qual | ug/m3 | | Dilution | Date/Time | | |
|---------------------------------|----------|--------|-----------|---------|---------|----------|-----------|---------|-----|
| | Results | RL | | Results | RL | | Analyzed | Analyst | |
| Monochlorobiphenyls | 0.0048 | 0.0010 | | 0.0034 | 0.00069 | 1 | 9/24/17 | 15:54 | CJM |
| Dichlorobiphenyls | 0.0037 | 0.0010 | | 0.0026 | 0.00069 | 1 | 9/24/17 | 15:54 | CJM |
| Trichlorobiphenyls | 0.0046 | 0.0010 | | 0.0032 | 0.00069 | 1 | 9/24/17 | 15:54 | CJM |
| Tetrachlorobiphenyls | 0.045 | 0.0020 | | 0.031 | 0.0014 | 1 | 9/24/17 | 15:54 | CJM |
| Pentachlorobiphenyls | 0.046 | 0.0020 | | 0.032 | 0.0014 | 1 | 9/24/17 | 15:54 | CJM |
| Hexachlorobiphenyls | 0.0029 | 0.0020 | | 0.002 | 0.0014 | 1 | 9/24/17 | 15:54 | CJM |
| Heptachlorobiphenyls | ND | 0.0030 | | ND | 0.0021 | 1 | 9/24/17 | 15:54 | CJM |
| Octachlorobiphenyls | ND | 0.0030 | | ND | 0.0021 | 1 | 9/24/17 | 15:54 | CJM |
| Nonachlorobiphenyls | ND | 0.0050 | | ND | 0.0035 | 1 | 9/24/17 | 15:54 | CJM |
| Decachlorobiphenyl | ND | 0.0050 | | ND | 0.0035 | 1 | 9/24/17 | 15:54 | CJM |
| Total Polychlorinated biphenyls | 0.11 | | | 0.074 | | 1 | 9/24/17 | 15:54 | CJM |

| Surrogates | % Recovery | % REC Limits | |
|----------------------|------------|--------------|---------------|
| Tetrachloro-m-xylene | 85.4 | 50-125 | 9/24/17 15:54 |

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ANALYTICAL RESULTS

Project Location: Branford, CT

Date Received: 9/22/2017

Field Sample #: #4 Girls Locker Room

Sample ID: 1711016-04

Sample Matrix: Indoor air

Sampled: 9/21/2017 15:00

Sample Description/Location:

Sub Description/Location:

Work Order: 1711016

Flow Controller ID:

Sample Type:

Air Volume L: 1440

TO-10A/EPA 680 Modified

| Analyte | Total µg | | Flag/Qual | ug/m3 | | Dilution | Date/Time | | Analyst |
|---------------------------------|----------|--------|-----------|---------|---------|----------|---------------|-----|---------|
| | Results | RL | | Results | RL | | Analyzed | | |
| Monochlorobiphenyls | 0.0048 | 0.0010 | | 0.0033 | 0.00069 | 1 | 9/24/17 16:31 | CJM | |
| Dichlorobiphenyls | 0.0040 | 0.0010 | | 0.0028 | 0.00069 | 1 | 9/24/17 16:31 | CJM | |
| Trichlorobiphenyls | 0.0066 | 0.0010 | | 0.0046 | 0.00069 | 1 | 9/24/17 16:31 | CJM | |
| Tetrachlorobiphenyls | 0.050 | 0.0020 | | 0.035 | 0.0014 | 1 | 9/24/17 16:31 | CJM | |
| Pentachlorobiphenyls | 0.052 | 0.0020 | | 0.036 | 0.0014 | 1 | 9/24/17 16:31 | CJM | |
| Hexachlorobiphenyls | 0.0050 | 0.0020 | | 0.0035 | 0.0014 | 1 | 9/24/17 16:31 | CJM | |
| Heptachlorobiphenyls | ND | 0.0030 | | ND | 0.0021 | 1 | 9/24/17 16:31 | CJM | |
| Octachlorobiphenyls | ND | 0.0030 | | ND | 0.0021 | 1 | 9/24/17 16:31 | CJM | |
| Nonachlorobiphenyls | ND | 0.0050 | | ND | 0.0035 | 1 | 9/24/17 16:31 | CJM | |
| Decachlorobiphenyl | ND | 0.0050 | | ND | 0.0035 | 1 | 9/24/17 16:31 | CJM | |
| Total Polychlorinated biphenyls | 0.12 | | | 0.085 | | 1 | 9/24/17 16:31 | CJM | |

| Surrogates | % Recovery | % REC Limits | |
|----------------------|------------|--------------|---------------|
| Tetrachloro-m-xylene | 76.6 | 50-125 | 9/24/17 16:31 |

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ANALYTICAL RESULTS

Project Location: Branford, CT

Date Received: 9/22/2017

Field Sample #: #5 Outside Door 12

Sample ID: 1711016-05

Sample Matrix: Indoor air

Sampled: 9/21/2017 15:06

Sample Description/Location:

Sub Description/Location:

Work Order: 1711016

Flow Controller ID:

Sample Type:

Air Volume L: 1440

TO-10A/EPA 680 Modified

| Analyte | Total µg | | Flag/Qual | ug/m3 | | Dilution | Date/Time | | |
|---------------------------------|----------|--------|-----------|---------|---------|----------|-----------|---------|-----|
| | Results | RL | | Results | RL | | Analyzed | Analyst | |
| Monochlorobiphenyls | ND | 0.0010 | | ND | 0.00069 | 1 | 9/24/17 | 17:09 | CJM |
| Dichlorobiphenyls | ND | 0.0010 | | ND | 0.00069 | 1 | 9/24/17 | 17:09 | CJM |
| Trichlorobiphenyls | ND | 0.0010 | | ND | 0.00069 | 1 | 9/24/17 | 17:09 | CJM |
| Tetrachlorobiphenyls | 0.0048 | 0.0020 | | 0.0034 | 0.0014 | 1 | 9/24/17 | 17:09 | CJM |
| Pentachlorobiphenyls | ND | 0.0020 | | ND | 0.0014 | 1 | 9/24/17 | 17:09 | CJM |
| Hexachlorobiphenyls | ND | 0.0020 | | ND | 0.0014 | 1 | 9/24/17 | 17:09 | CJM |
| Heptachlorobiphenyls | ND | 0.0030 | | ND | 0.0021 | 1 | 9/24/17 | 17:09 | CJM |
| Octachlorobiphenyls | ND | 0.0030 | | ND | 0.0021 | 1 | 9/24/17 | 17:09 | CJM |
| Nonachlorobiphenyls | ND | 0.0050 | | ND | 0.0035 | 1 | 9/24/17 | 17:09 | CJM |
| Decachlorobiphenyl | ND | 0.0050 | | ND | 0.0035 | 1 | 9/24/17 | 17:09 | CJM |
| Total Polychlorinated biphenyls | 0.0048 | | | 0.0034 | | 1 | 9/24/17 | 17:09 | CJM |

| Surrogates | % Recovery | % REC Limits | |
|----------------------|------------|--------------|---------------|
| Tetrachloro-m-xylene | 82.7 | 50-125 | 9/24/17 17:09 |

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ANALYTICAL RESULTS

Project Location: Branford, CT

Date Received: 9/22/2017

Field Sample #: #6 Blank

Sample ID: 1711016-06

Sample Matrix: Air

Sampled: 9/21/2017 00:00

Sample Description/Location:

Sub Description/Location:

Work Order: 1711016

Flow Controller ID:

Sample Type:

TO-10A/EPA 680 Modified

| Analyte | Total µg | | Flag/Qual | Dilution | Date/Time | | Analyst |
|---------------------------------|----------|--------|-----------|----------|---------------|--|---------|
| | Results | RL | | | Analyzed | | |
| Monochlorobiphenyls | ND | 0.0010 | | 1 | 9/24/17 17:46 | | CJM |
| Dichlorobiphenyls | ND | 0.0010 | | 1 | 9/24/17 17:46 | | CJM |
| Trichlorobiphenyls | ND | 0.0010 | | 1 | 9/24/17 17:46 | | CJM |
| Tetrachlorobiphenyls | ND | 0.0020 | | 1 | 9/24/17 17:46 | | CJM |
| Pentachlorobiphenyls | ND | 0.0020 | | 1 | 9/24/17 17:46 | | CJM |
| Hexachlorobiphenyls | ND | 0.0020 | | 1 | 9/24/17 17:46 | | CJM |
| Heptachlorobiphenyls | ND | 0.0030 | | 1 | 9/24/17 17:46 | | CJM |
| Octachlorobiphenyls | ND | 0.0030 | | 1 | 9/24/17 17:46 | | CJM |
| Nonachlorobiphenyls | ND | 0.0050 | | 1 | 9/24/17 17:46 | | CJM |
| Decachlorobiphenyl | ND | 0.0050 | | 1 | 9/24/17 17:46 | | CJM |
| Total Polychlorinated biphenyls | 0.0 | | | 1 | 9/24/17 17:46 | | CJM |

| Surrogates | % Recovery | % REC Limits | |
|----------------------|------------|--------------|---------------|
| Tetrachloro-m-xylene | 81.3 | 50-125 | 9/24/17 17:46 |

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Branford, CT

Date Received: 9/22/2017

Field Sample #: #7 Blank

Sample ID: 1711016-07

Sample Matrix: Air

Sampled: 9/21/2017 00:00

Sample Description/Location:

Sub Description/Location:

Work Order: 1711016

Flow Controller ID:

Sample Type:

TO-10A/EPA 680 Modified

| Analyte | Total µg | | Flag/Qual | Dilution | Date/Time | | Analyst |
|---------------------------------|----------|--------|-----------|----------|---------------|--|---------|
| | Results | RL | | | Analyzed | | |
| Monochlorobiphenyls | ND | 0.0010 | | 1 | 9/24/17 18:23 | | CJM |
| Dichlorobiphenyls | ND | 0.0010 | | 1 | 9/24/17 18:23 | | CJM |
| Trichlorobiphenyls | ND | 0.0010 | | 1 | 9/24/17 18:23 | | CJM |
| Tetrachlorobiphenyls | ND | 0.0020 | | 1 | 9/24/17 18:23 | | CJM |
| Pentachlorobiphenyls | ND | 0.0020 | | 1 | 9/24/17 18:23 | | CJM |
| Hexachlorobiphenyls | ND | 0.0020 | | 1 | 9/24/17 18:23 | | CJM |
| Heptachlorobiphenyls | ND | 0.0030 | | 1 | 9/24/17 18:23 | | CJM |
| Octachlorobiphenyls | ND | 0.0030 | | 1 | 9/24/17 18:23 | | CJM |
| Nonachlorobiphenyls | ND | 0.0050 | | 1 | 9/24/17 18:23 | | CJM |
| Decachlorobiphenyl | ND | 0.0050 | | 1 | 9/24/17 18:23 | | CJM |
| Total Polychlorinated biphenyls | 0.0 | | | 1 | 9/24/17 18:23 | | CJM |

| Surrogates | % Recovery | % REC Limits | |
|----------------------|------------|--------------|---------------|
| Tetrachloro-m-xylene | 86.6 | 50-125 | 9/24/17 18:23 |

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method: SW-846 3540C-TO-10A/EPA 680 Modified**

| Lab Number [Field ID] | Batch | Initial [Cartridge] | Final [mL] | Date |
|-----------------------------------|---------|---------------------|------------|----------|
| 17I1016-01 [#1 Large Gymnasium] | B186833 | 1.00 | 1.00 | 09/22/17 |
| 17I1016-02 [#2 Large Gymnasium] | B186833 | 1.00 | 1.00 | 09/22/17 |
| 17I1016-03 [#3 Boys Locker Room] | B186833 | 1.00 | 1.00 | 09/22/17 |
| 17I1016-04 [#4 Girls Locker Room] | B186833 | 1.00 | 1.00 | 09/22/17 |
| 17I1016-05 [#5 Outside Door 12] | B186833 | 1.00 | 1.00 | 09/22/17 |
| 17I1016-06 [#6 Blank] | B186833 | 1.00 | 1.00 | 09/22/17 |
| 17I1016-07 [#7 Blank] | B186833 | 1.00 | 1.00 | 09/22/17 |

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

PCB Homologues by GC/MS with Soxhlet Extraction - Quality Control

| Analyte | Total µg | | ug/m3 | | Spike Level | Source | %REC | %REC | RPD | RPD | Flag/Qual |
|---------|----------|----|---------|----|-------------|--------|------|--------|-----|-------|-----------|
| | Results | RL | Results | RL | Total µg | Result | %REC | Limits | RPD | Limit | |

Batch B186833 - SW-846 3540C

Blank (B186833-BLK1)

Prepared: 09/22/17 Analyzed: 09/24/17

| | | |
|---------------------------------|-----|--------|
| Monochlorobiphenyls | ND | 0.0010 |
| Dichlorobiphenyls | ND | 0.0010 |
| Trichlorobiphenyls | ND | 0.0010 |
| Tetrachlorobiphenyls | ND | 0.0020 |
| Pentachlorobiphenyls | ND | 0.0020 |
| Hexachlorobiphenyls | ND | 0.0020 |
| Heptachlorobiphenyls | ND | 0.0030 |
| Octachlorobiphenyls | ND | 0.0030 |
| Nonachlorobiphenyls | ND | 0.0050 |
| Decachlorobiphenyl | ND | 0.0050 |
| Total Polychlorinated biphenyls | 0.0 | |

Surrogate: Tetrachloro-m-xylene 0.171 0.200 85.3 50-125

LCS (B186833-BS1)

Prepared: 09/22/17 Analyzed: 09/24/17

| | | | | | |
|----------------------|------|--------|-------|------|--------|
| Monochlorobiphenyls | 0.16 | 0.0010 | 0.200 | 79.1 | 40-140 |
| Dichlorobiphenyls | 0.16 | 0.0010 | 0.200 | 80.5 | 40-140 |
| Trichlorobiphenyls | 0.15 | 0.0010 | 0.200 | 76.8 | 40-140 |
| Tetrachlorobiphenyls | 0.32 | 0.0020 | 0.400 | 78.8 | 40-140 |
| Pentachlorobiphenyls | 0.33 | 0.0020 | 0.400 | 83.4 | 40-140 |
| Hexachlorobiphenyls | 0.33 | 0.0020 | 0.400 | 82.0 | 40-140 |
| Heptachlorobiphenyls | 0.49 | 0.0030 | 0.600 | 81.3 | 40-140 |
| Octachlorobiphenyls | 0.50 | 0.0030 | 0.600 | 82.7 | 40-140 |
| Nonachlorobiphenyls | 0.90 | 0.0050 | 1.00 | 90.4 | 40-140 |
| Decachlorobiphenyl | 0.83 | 0.0050 | 1.00 | 82.6 | 40-140 |

Surrogate: Tetrachloro-m-xylene 0.181 0.200 90.5 50-125

LCS Dup (B186833-BSD1)

Prepared: 09/22/17 Analyzed: 09/24/17

| | | | | | | | |
|----------------------|------|--------|-------|------|--------|------|----|
| Monochlorobiphenyls | 0.18 | 0.0010 | 0.200 | 91.7 | 40-140 | 14.8 | 50 |
| Dichlorobiphenyls | 0.18 | 0.0010 | 0.200 | 89.6 | 40-140 | 10.6 | 50 |
| Trichlorobiphenyls | 0.17 | 0.0010 | 0.200 | 83.6 | 40-140 | 8.43 | 50 |
| Tetrachlorobiphenyls | 0.34 | 0.0020 | 0.400 | 85.9 | 40-140 | 8.65 | 50 |
| Pentachlorobiphenyls | 0.36 | 0.0020 | 0.400 | 89.6 | 40-140 | 7.16 | 50 |
| Hexachlorobiphenyls | 0.35 | 0.0020 | 0.400 | 88.0 | 40-140 | 7.10 | 50 |
| Heptachlorobiphenyls | 0.52 | 0.0030 | 0.600 | 86.9 | 40-140 | 6.77 | 50 |
| Octachlorobiphenyls | 0.53 | 0.0030 | 0.600 | 88.8 | 40-140 | 7.13 | 50 |
| Nonachlorobiphenyls | 0.98 | 0.0050 | 1.00 | 98.2 | 40-140 | 8.22 | 50 |
| Decachlorobiphenyl | 0.89 | 0.0050 | 1.00 | 89.1 | 40-140 | 7.60 | 50 |

Surrogate: Tetrachloro-m-xylene 0.184 0.200 91.8 50-125

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

| | |
|-----|--|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant Level |

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

INTERNAL STANDARD AREA AND RT SUMMARY

TO-10A/EPA 680 Modified

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|--|----------|--------|--------------------|--------------|--------|---------------|---------|---------------|---|
| LCS (B186833-BS1) Lab File ID: F0924004.D Analyzed: 09/24/17 12:47 | | | | | | | | | |
| Phenanthrene-d10 | 1021922 | 20.414 | | | | 50 - 200 | 20.4140 | +/-0.50 | |
| Chrysene-d12 | 745505 | 28.234 | 673014 | 28.234 | 111 | 50 - 200 | 0.0000 | +/-0.50 | |
| LCS Dup (B186833-BSD1) Lab File ID: F0924005.D Analyzed: 09/24/17 13:24 | | | | | | | | | |
| Phenanthrene-d10 | 1054597 | 20.415 | | | | 50 - 200 | 20.4150 | +/-0.50 | |
| Chrysene-d12 | 767248 | 28.23 | 673014 | 28.234 | 114 | 50 - 200 | -0.0040 | +/-0.50 | |
| Blank (B186833-BLK1) Lab File ID: F0924006.D Analyzed: 09/24/17 14:02 | | | | | | | | | |
| Phenanthrene-d10 | 1036241 | 20.414 | | | | 50 - 200 | 20.4140 | +/-0.50 | |
| Chrysene-d12 | 749671 | 28.23 | 673014 | 28.234 | 111 | 50 - 200 | -0.0040 | +/-0.50 | |
| #1 Large Gymnasium (17I1016-01) Lab File ID: F0924007.D Analyzed: 09/24/17 14:39 | | | | | | | | | |
| Phenanthrene-d10 | 1061064 | 20.414 | | | | 50 - 200 | 20.4140 | +/-0.50 | |
| Chrysene-d12 | 764363 | 28.23 | 673014 | 28.234 | 114 | 50 - 200 | -0.0040 | +/-0.50 | |
| #2 Large Gymnasium (17I1016-02) Lab File ID: F0924008.D Analyzed: 09/24/17 15:16 | | | | | | | | | |
| Phenanthrene-d10 | 1029161 | 20.418 | | | | 50 - 200 | 20.4180 | +/-0.50 | |
| Chrysene-d12 | 753991 | 28.23 | 673014 | 28.234 | 112 | 50 - 200 | -0.0040 | +/-0.50 | |
| #3 Boys Locker Room (17I1016-03) Lab File ID: F0924009.D Analyzed: 09/24/17 15:54 | | | | | | | | | |
| Phenanthrene-d10 | 1057737 | 20.418 | | | | 50 - 200 | 20.4180 | +/-0.50 | |
| Chrysene-d12 | 781979 | 28.234 | 673014 | 28.234 | 116 | 50 - 200 | 0.0000 | +/-0.50 | |
| #4 Girls Locker Room (17I1016-04) Lab File ID: F0924010.D Analyzed: 09/24/17 16:31 | | | | | | | | | |
| Phenanthrene-d10 | 1104785 | 20.418 | | | | 50 - 200 | 20.4180 | +/-0.50 | |
| Chrysene-d12 | 818267 | 28.234 | 673014 | 28.234 | 122 | 50 - 200 | 0.0000 | +/-0.50 | |
| #5 Outside Door 12 (17I1016-05) Lab File ID: F0924011.D Analyzed: 09/24/17 17:09 | | | | | | | | | |
| Phenanthrene-d10 | 1082614 | 20.419 | | | | 50 - 200 | 20.4190 | +/-0.50 | |
| Chrysene-d12 | 784682 | 28.234 | 673014 | 28.234 | 117 | 50 - 200 | 0.0000 | +/-0.50 | |
| #6 Blank (17I1016-06) Lab File ID: F0924012.D Analyzed: 09/24/17 17:46 | | | | | | | | | |
| Phenanthrene-d10 | 1098634 | 20.418 | | | | 50 - 200 | 20.4180 | +/-0.50 | |
| Chrysene-d12 | 830352 | 28.234 | 673014 | 28.234 | 123 | 50 - 200 | 0.0000 | +/-0.50 | |
| #7 Blank (17I1016-07) Lab File ID: F0924013.D Analyzed: 09/24/17 18:23 | | | | | | | | | |
| Phenanthrene-d10 | 1043842 | 20.418 | | | | 50 - 200 | 20.4180 | +/-0.50 | |
| Chrysene-d12 | 748214 | 28.234 | 673014 | 28.234 | 111 | 50 - 200 | 0.0000 | +/-0.50 | |

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CONTINUING CALIBRATION CHECK

| COMPOUND | TYPE | | | RESPONSE FACTOR | | | % DIFF / DRIFT | |
|----------|------|-----|-----|-----------------|-----|---------|----------------|-----------|
| | | STD | CCV | ICAL | CCV | MIN (#) | CCV | LIMIT (#) |

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CERTIFICATIONS

Certified Analyses included in this Report

| Analyte | Certifications |
|---------|----------------|
|---------|----------------|

TO-10A/EPA 680 Modified in Air

Total Polychlorinated biphenyls AIHA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

| Code | Description | Number | Expires |
|-------|--|---------------|------------|
| AIHA | AIHA-LAP, LLC - ISO17025:2005 | 100033 | 02/1/2018 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2018 |
| CT | Connecticut Department of Public Health | PH-0567 | 09/30/2017 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2018 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2018 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2017 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2017 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2018 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2018 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2018 |
| ME | State of Maine | 2011028 | 06/9/2019 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2017 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2017 |
| VT-DW | Vermont Department of Health Drinking Water | VT-255716 | 06/12/2018 |
| NC-DW | North Carolina Department of Health | 25703 | 07/31/2018 |



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Company Name:

Address:

Phone:

Project Name:

Project Location:

Project Number:

Project Manager:

Con-Test Quote Name/Number:

Invoice Recipient:

Sampled By:

Langan_InvoiceCapture@ConcurSolutions.com

Brian Quinlan

| | |
|--|---------------------------------|
| Requested Turnaround Time | |
| 7-Day <input type="checkbox"/> | 10-Day <input type="checkbox"/> |
| Due Date: 9/26/2017 | |
| Rush-Approval Required | |
| 1-Day <input type="checkbox"/> | 3-Day <input type="checkbox"/> |
| 2-Day <input type="checkbox"/> | 4-Day <input type="checkbox"/> |
| Data Delivery | |
| Format: PDF <input checked="" type="checkbox"/> | EXCEL <input type="checkbox"/> |
| Other: | |
| CLP Like Data Pkg Required: <input type="checkbox"/> | |
| Email To: | mmyers@langan.com |
| Fax To #: | |

| Lab Use | Client Use | Collection Data | | Duration | Flow Rate | Matrix | Volume | | Method 8082 Hom | Pressure | Information please refer to Con-Test's Air Media Agreement |
|---------|-------------------------|---------------------|------------------|----------|-------------|--------|-----------------------|------------------------------|-----------------|----------|--|
| | | Beginning Date/Time | Ending Date/Time | | | | Total Minutes Sampled | m ³ /min L/min | | | |
| 01 | #1 - Large Gymnasium | 9/24 0650 | 9/24 1450 | 480 | 3 1/2 m/min | IA | | 1440 | X | | |
| 02 | #2 - Large Gymnasium | 0651 | 1451 | | | | | | X | | |
| 03 | #3 - Boys' Locker Room | 0655 | 1455 | | | | | | X | | |
| 04 | #4 - Girls' Locker Room | 0700 | 1500 | | | | | | X | | |
| 05 | #5 - Outside Door 12 | 0706 | 1506 | | | | | | X | | |
| 06 | #6 - Blank | - | - | - | - | - | | - | X | | |
| 07 | #7 - Blank | - | - | - | - | - | | - | X | | |
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Comments: Per email conversation with Aaron Benoit, results due EOD Tuesday 9/26/2017
 #8 - Calibration Tube. Do Not Analyze, #9, #10 Not Used. Do Not Analyze

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:

SG = SOIL GAS
 IA = INDOOR AIR
 AMB = AMBIENT
 SS = SUB SLAB
 D = DUP
 BL = BLANK
 O = Other



| | |
|------------------------------|---------------------------------|
| Detection Limit Requirements | Special Requirements |
| MA | MA MCP Required |
| | MCP Certification Form Required |
| CT | CT RCP Required |
| | RCP Certification Form Required |
| | Other |

| | | | | |
|----------------|------------|--------------|--------|---------------|
| Project Entity | Government | Municipality | MWRA | Other |
| | Federal | 21 J | School | Chromatogram |
| | City | Brownfield | MBTA | AIHA-LAP, LLC |

| | |
|-------------------------------------|--------------------------|
| PCB ONLY | Soxhlet |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



con-test®
ANALYTICAL LABORATORY

Doc# 278 Rev 6 2017

Air Media Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Langan Engineering

Received By wcg Date 9/22/17 Time 7:45

How were the samples received? In Cooler T On Ice T No Ice

In Box Ambient Melted Ice

Were samples within Temperature Compliance? 2-6°C T By Gun # 1 Actual Temp - 2.5°C

By Blank # Actual Temp -

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished? T Does Chain Agree With Samples? T

Are there any loose caps/valves on any samples? F

Is COC in ink/ Legible? T

Did COC Include all Client T Analysis T Sampler Name T

Pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample Labels filled out and legible? T

Are there Rushes? T Who was notified? Mac

Samples are received within holding time? T

Proper Media Used? T Individually Certified Cans? F

Are there Trip Blanks? T Is there enough Volume? T

| Containers: | # | Size | Regulator | Duration | Accessories: | | |
|-------------|-----------|---------------|-----------|----------|--------------|--|------------------|
| Summa Cans | | | | | Nut/Ferrule | | IC Train |
| Tedlar Bags | | | | | Tubing | | |
| TO-17 Tubes | | | | | T-Connector | | Shipping Charges |
| Radiello | | | | | Syringe | | |
| Pufs/TO-11s | <u>10</u> | <u>TO-10A</u> | | | Tedlar | | |

| Can #'s | | | | | Reg #'s | | | | |
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| Unused Media | | | | | Pufs/TO-17's | | | | |
| <u>091917-8</u> | | | | | <u>091917-01</u> | <u>091917-06</u> | | | |
| <u>091917-9</u> | | | | | <u>091917-02</u> | <u>091917-07</u> | | | |
| <u>091917-10</u> | | | | | <u>091917-03</u> | | | | |
| | | | | | <u>091917-04</u> | | | | |
| | | | | | <u>091917-05</u> | | | | |

Comments: