



ASBESTOS AND LEAD SURVEY REPORT

**HAPPY HOLLOW RECREATION CENTER
4800 WAYNE AVENUE.,
PHILADELPHIA, PA 19144**

Prepared For:

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SECTION 1.0

INTRODUCTION

A hazardous materials survey was conducted at the Happy Hollow Recreation Center located at 4800 Wayne Avenue., Philadelphia, PA. The survey was conducted from April 17, 2024, by Steve Woronicak, and Alyssa Cartagena, all AHERA-certified building inspectors from Batta Environmental Associates, Inc. (BEA).

The purpose of the inspection was to identify and report on environmentally hazardous materials within the Happy Hollow Recreation Center property located at the above referenced site that may be impacted by the upcoming planned renovations to the interior of the structure. The inspection included surveying for Asbestos-Containing Material (ACM) and Lead-Based Paint (LBP).

This LBP and ACM report has been prepared by BEA in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranty, expressed or implied is made. The intent of this survey report is to assist the building owner or management in locating environmentally hazardous materials in support of future demolition activities. This document is not intended to be utilized as a proposal or a project design document for the remediation of hazardous materials discovered during this investigation.

BEA's interpretations and recommendations are based upon the results of sample collection and analyses in compliance with environmental regulations, quality control and assurance standards, and the scope of work. The results, conclusions, and recommendations contained in this report pertain to conditions observed at the time of the survey.

SECTION 2.0

ASBESTOS SURVEY

2.1 ASBESTOS SURVEY METHODS

The site was inspected for suspect ACM, unless otherwise noted. Each observed suspect material was assigned a homogenous area number, described, and measured. Each observed suspect material was sampled or assumed to be asbestos. Samples of suspect ACM were collected using procedures established by the United States (US) Environmental Protection Agency (EPA) Code of Federal Regulations (CFR) Title 40 Part 763 Subpart E, Asbestos-Containing Materials in Schools.

At the beginning of the survey, the inspector(s) conducted a walkthrough of the areas identifying and sampling different types of probable ACM and categorizing these materials.

Each probable ACM was grouped into homogenous areas, which group a particular material by similar characteristics such as appearance, texture, manufacturer, etc. All similar materials within a particular building or process area were in their own homogenous area groups.

ACM's were also further divided into three categories:

- ***“Surfacing Materials”*** material that is sprayed-on, trowelled on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing or other purposes.
- ***“Thermal System Insulation”*** material applied to pipes, fittings, boilers, breeching, tanks, ducts, or other structural components to prevent heat loss or gain, or water condensation, or for other purposes.
- ***“Miscellaneous ACM”*** interior building material on structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing material or thermal insulation.

ACM's inventoried in this survey are classified as either friable or non-friable. Friable ACM can be crumbled or reduced to powder by hand pressure whereas non-friable ACM cannot.

The EPA asbestos NESHAP regulation further classifies nonfriable ACM into two categories.

- Category I. Nonfriable ACM includes any asbestos-containing packing, gasket, resilient floor covering or asphalt roofing product.
- Category II. Nonfriable ACM includes any nonfriable ACM other than Category I nonfriable ACM.

Samples were collected in air tight, sealed bags for transportation to Batta Environmental, LLC for analysis. During sample collection procedures, good safety and hygiene practices were implemented to prevent asbestos airborne contamination from being introduced into the building's atmosphere.

All field records pertaining to samples collected during this inspection can be found in Appendix B of this report and each sample is listed as follows:

1. Field Number
2. Lab Number
3. AHERA Classification
4. Sample Location
5. Material Sampled
6. Lab Results

All lab data pertaining to the samples analyzed can be found in Appendix A of this report and each sample is listed as follows:

1. Date Analyzed
2. Field Sample Number
3. Lab Sample Number
4. Sample Location
5. Asbestos Content
6. Non-Asbestos Content

Samples were analyzed using an A,B,C... positive stop protocol for each set of homogenous materials (*materials with similar characteristics*). If a sample in the homogenous set tested **positive for asbestos (greater than 1% by composition)** then the other samples in that set were not analyzed. If asbestos was not detected in a sample then all samples from that homogenous set were analyzed for asbestos until one tested positive.

2.2 LABORATORY ANALYSIS METHODS

All samples collected during the survey were analyzed at Batta Laboratories, LLC, an A.I.H.A., NVLAP certified laboratory. Upon arrival at the laboratory, the samples were logged-in and submitted for analysis.

PLM samples were analyzed utilizing the Environmental Protection Agency's test method: "Methods for the determination of Asbestos in Bulk Building Materials" (EPA 600/R-93/116, July 1993) and the McCrone Research Institute's "The Asbestos Particle Atlas" as the principal analytical references. Additional treatment and tests may be required to accurately define composition (i.e. ashing, extraction, acetone treatment, and TEM).

The PLM method utilizes a light microscope equipped with polarizing filters. The identification of asbestos fiber bundles is determined by the visual properties displayed when the sample is treated with various dispersion staining liquids. Identification is substantiated by the actual structure of the fiber and the effect of polarized light on the fiber, all of which is viewed by a trained technician. The limit of detection of asbestos by PLM is about one percent (1%) by area. Samples containing lower levels of asbestos are not reliably detectable by this technique.

Analysis was performed by using the bulk sample for visual observation and slide preparation(s) for microscopic examination and identification. The samples analyzed for asbestos (chrysotile, amosite, crocidolite, anthophyllite, and actinolite/tremolite), silicon carbide whiskers, carbon fibers, fibrous non-asbestos constituents (cellulose, synthetic, etc.), and non-fibrous constituents. Using a stereoscope, the microscopist visually estimated relative amounts of each constituent by determining the volume of each constituent in proportion to the total volume of the sample.

The asbestos NESHAP recommends that asbestos bulk samples that are less than 10% by PLM are to be analyzed by point counting for friable ACM and mandates point counting when PLM results for friable ACM are in trace amounts (< 1%) in order to declare that the material is non-asbestos containing. The point-count procedure mandated by NESHAP is in the EPA "Interim" Bulk Method. For each layer to be point counted, eight mounts are made by dispersing 8 pinches of sample in suitable fluid. Each of the mounts is examined under the polarizing light microscope using an eyepiece reticule that superimposes a grid of points over the field of view. Fifty non-empty points are examined for each mount, yielding 400 points – some of which would be identified as asbestos and the rest as non-asbestos material.

A total of 34 bulk samples were collected for PLM analysis during this survey.

2.3 LIMITATIONS

This survey was limited in scope to a Hazardous Materials Inspection Survey at the Happy Hollow Recreation Center located at 4800 Wayne Avenue, in Philadelphia, PA 19136 as defined by contract documents and the project scope of work.

This asbestos and lead survey report has been prepared by BEA in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranty, expressed or implied is made. The intent of this survey report is to assist the building owner or management in locating hazardous materials. This document is not intended to be utilized as a proposal or a project design document for the remediation of hazardous materials discovered during this investigation.

BEA's interpretations and recommendations are based upon the results of sample collection and analyses in compliance with environmental regulations, quality control and assurance standards, and the scope of work. The results, conclusions, and recommendations contained in this report pertain to conditions observed at the time of the survey.

2.4 ASBESTOS ANALYSIS RESULTS

A total of 34 samples were collected and 37 samples were analyzed via PLM. The original laboratory report / certificates of analysis are found in Appendix A and survey field records are found in Appendix B.

The following table summarizes the samples collected. Materials are quantified that have been found to contain asbestos greater than 1% (NAD = No Asbestos Detected, RACM = Regulated Asbestos Containing Material, CAT I NF = Category I Non-friable, CAT II NF = Category II Non-friable).

| Happy Hollow Recreation Center | | | | | |
|-------------------------------------|--|-------|----------|-----------|----------|
| Material | Location | % ACM | Category | Condition | Quantity |
| Gym | | | | | |
| Grey 12"x12" Floor Tile | - 1 st Floor - 2 nd Floor | NAD | N/A | N/A | N/A |
| Mastic with Grey 12"x12" Floor Tile | - 1 st Floor - 2 nd Floor | NAD | N/A | N/A | N/A |
| Blue 12"x12" Floor Tile (Bottom) | - 1 st Floor - 2 nd Floor | NAD | N/A | N/A | N/A |
| Mastic with Blue 12"x12" Floor Tile | - 1 st Floor - 2 nd Floor | NAD | N/A | N/A | N/A |

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| Happy Hollow Recreation Center | | | | | |
|-------------------------------------|---|-------------------|----------|-----------|----------|
| Material | Location | % ACM | Category | Condition | Quantity |
| Baseboard | - 1 st Floor | NAD | N/A | N/A | N/A |
| Baseboard Mastic | - 1 st Floor | NAD | N/A | N/A | N/A |
| Stair Tread Material | - Stairs | NAD | N/A | N/A | N/A |
| Stair Tread Mastic | - Stairs | 2% Chrysotile | CAT1NF | Good | 45 SF |
| Transite Panel | - 2 nd Floor Water Heater Room | 15% Chrysotile | CAT2NF | Good | 30 SF |
| Boxing Gym Building | | | | | |
| Grey 12"x12" Floor Tile | - Hall Outside Office - Outside Men's Room | NAD | N/A | N/A | N/A |
| Mastic with Grey 12"x12" Floor Tile | - Hall Outside Office - Outside Men's Room | NAD | N/A | N/A | N/A |
| Baseboard Mastic | - Hall Outside Office - Outside Men's Room | NAD | N/A | N/A | N/A |
| Rubber Floor Mastic | - Main Area | NAD | N/A | N/A | N/A |
| Flue Packing | - Basement | NAD | N/A | N/A | N/A |
| Window Glazing | - Basketball Gym Exterior | NAD | N/A | N/A | N/A |
| Smooth Plaster Walls | - Main Boxing Gym | NAD | N/A | N/A | N/A |

SECTION 3.0

LEAD PAINT EVALUATION

3.1 LEAD BASED PAINT EVALUATION AND XRF RESULTS

BATTA ENVIRONMENTAL ASSOCIATES, INC. performed an evaluation for Lead-Based Paint (LBP) for Happy Hollow Recreation Center located at 4800 Wayne Avenue., Philadelphia, PA. The inspection was performed using a Heuresis Model Pb200i Portable X-Ray fluorescence (XRF) Analyzer by Steve Woronicak.

Various painted surfaces were analyzed using the hand-held XRF Analyzer and a visual assessment of the identified lead-based surfaces was performed. Identified lead-based paint components were visually assessed for paint condition as per the United States Department of Housing & Urban Development (HUD) guidelines.

A total of 145 XRF readings were collected on the interior areas of the subject property. The following items describe the existing paint and condition identified throughout the property during the time of inspection. Lead-Based Paint is highlighted below.

| HAPPY HOLLOW RECREATION CENTER | | | | | | | | |
|--------------------------------|-----------------|---------|-------|------------|-----------|-----------|------|--------|
| # | Location | Wall | Color | Component | Substrate | Condition | Pb | Pb +/- |
| <i>Basketball Gym</i> | | | | | | | | |
| 1 | Girls Rest Room | A | White | Frame | Metal | Intact | 0.1 | - |
| 2 | | A | Blue | Door | Wood | Intact | 0.1 | - |
| 3 | | B | White | Wall | Brick | Intact | 0.5 | - |
| 4 | | D | White | Wall | Brick | Intact | 0.4 | - |
| 5 | | D | White | Stall Door | Metal | Intact | 0.3 | - |
| 6 | | C | White | Windowsill | Metal | Intact | 0.2 | - |
| 7 | | Ceiling | White | Ceiling | Wood | Intact | 0.1 | - |
| 8 | | C | Blue | Conduit | Metal | Damaged | 0.2 | - |
| 9 | Boys Restroom | D | Black | Wall | Brick | Intact | 0.4 | - |
| 10 | | A | White | Wall | Brick | Intact | 0.1 | - |
| 11 | | C | White | Sink | Ceramic | Intact | 28.4 | + |
| 12 | | C | White | Urinal | Ceramic | Intact | 0.4 | - |
| 13 | Main Gym | | Blue | Divider | Wood | Intact | 0.3 | - |

| HAPPY HOLLOW RECREATION CENTER | | | | | | | | |
|--------------------------------|--------------------|------|-----------|--------------|-----------|-----------|------|--------|
| # | Location | Wall | Color | Component | Substrate | Condition | Pb | Pb +/- |
| 14 | Gym Front Exterior | | Red | Beam | Metal | Intact | 1.8 | + |
| 15 | | | Red | Drain Pipe | Metal | Intact | 0.1 | - |
| 16 | Walkway | | Red | Thin Beam | Metal | Intact | 0.1 | - |
| 17 | Gym Front Exterior | | Blue | Wall | Brick | Intact | 0.2 | - |
| 18 | | | Red | AC Grate | Metal | Intact | 0 | - |
| 19 | Playground | | Green | Light Pole | Metal | Intact | 0.2 | - |
| 20 | | | Blue | Swing Rail | Metal | Damaged | 0.1 | - |
| 21 | | | Blue | Swing Base | Metal | Intact | 0 | - |
| 22 | | | Gray Blue | Whale | Metal | Intact | 0.9 | + |
| 23 | | | Yellow | Rail | Metal | Intact | 0.2 | - |
| 24 | | | Red | Struct Floor | Metal | Intact | 0.2 | - |
| 25 | | | Blue | Struct Floor | Metal | Intact | 0 | - |
| Recreation Center | | | | | | | | |
| 26 | Main Room | A | White | Wall | Brick | Intact | 0.2 | - |
| 27 | | B | White | Wall | Brick | Intact | 0.1 | - |
| 28 | | C | White | Wall | Brick | Intact | 0.1 | - |
| 29 | | D | White | Wall | Brick | Intact | 0.2 | - |
| 30 | | A | Red | Door | Wood | Intact | 0.3 | - |
| 31 | | A | Red | Doorframe | Wood | Intact | 27.7 | + |
| 32 | | A | Red | Windowsill | Wood | Intact | 0.2 | - |
| 33 | | A | Red | Windowframe | Wood | Intact | 0.5 | - |
| 34 | | A | White | Windowframe | Wood | Intact | 0.1 | - |
| 35 | | A | Red | Column | Wood | Intact | 0.8 | + |
| 36 | | A | Blue | Post | Metal | Intact | 0 | - |
| 37 | | C | Red | Windowsill | Wood | Intact | 0.8 | + |
| 38 | | C | Red | Windowframe | Wood | Intact | 0.4 | - |
| 39 | | C | White | Window | Wood | Intact | 0 | - |
| 40 | | C | Red | Column | Wood | Intact | 0.4 | - |
| 41 | | B | Tan | Door | Wood | Intact | 0.1 | - |

| HAPPY HOLLOW RECREATION CENTER | | | | | | | | |
|--------------------------------|------------------|---------|-----------|-----------------|-----------|-----------|------|--------|
| # | Location | Wall | Color | Component | Substrate | Condition | Pb | Pb +/- |
| 42 | | B | Tan | Doorframe | Wood | Intact | 0.6 | - |
| 43 | Closet | A | Tan | Door | Wood | Intact | 0.2 | - |
| 44 | | A | Tan | Doorframe | Metal | Intact | 0.3 | - |
| 45 | | A | Light Tan | Wall | Brick | Intact | 0.2 | - |
| 46 | | B | Light Tan | Wall | Brick | Intact | 0.2 | - |
| 47 | | D | Light Tan | Wall | Brick | Intact | 0.3 | - |
| 48 | Computer Lab | A | Blue | Wall | Brick | Intact | 0.3 | - |
| 49 | | A | Blue | Doorframe | Wood | Intact | 0.1 | - |
| 50 | | A | Tan | Door | Metal | Damaged | 0.1 | - |
| 51 | | B | White | Wall | Brick | Intact | 0.1 | - |
| 52 | | D | Gray | Wall | Brick | Damaged | 0.2 | - |
| 53 | | A | White | Wall | Brick | Intact | 0.1 | - |
| 54 | Women's Bathroom | A | White | Wall | Brick | Intact | 0 | - |
| 55 | | C | White | Wall | Brick | Intact | 0.3 | - |
| 56 | | C | Blue | Window | Wood | Damaged | 7.4 | + |
| 57 | | C | White | Window | Wood | Intact | 0.1 | - |
| 58 | | Divider | Blue | Divider | Metal | Intact | 0.2 | - |
| 59 | | D | Black | Radiator Cover | Metal | Intact | 1.5 | + |
| 60 | | A | Blue | Door | Metal | Intact | 0 | - |
| 61 | | A | Tan | Doorframe | Metal | Intact | 0.3 | - |
| 62 | Women's Hallway | C | White | Wall | Brick | Intact | 0.2 | - |
| 63 | | C | White | Roof Drain Pipe | Metal | Intact | 12.8 | + |
| 64 | | D | Tan | Windowframe | Metal | Intact | 0 | - |
| 65 | | D | Red | Frame | Metal | Intact | 0.4 | - |
| 66 | Men's Bathroom | A | White | Wall | Brick | Intact | 0.1 | - |
| 67 | | C | White | Wall | Brick | Intact | 0.1 | - |

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| HAPPY HOLLOW RECREATION CENTER | | | | | | | | |
|--------------------------------|-----------------|---------|--------|----------------|-----------|-----------|-----|--------|
| # | Location | Wall | Color | Component | Substrate | Condition | Pb | Pb +/- |
| 68 | | C | Silver | Radiator | Metal | Intact | 0.1 | - |
| 69 | Storage | A | White | Wall | CMU | Intact | 0.2 | - |
| 70 | | A | Tan | Frame | Metal | Intact | 0.4 | - |
| 71 | | A | Tan | Door | Metal | Intact | 0 | - |
| 72 | | D | White | Wall | CMU | Intact | 0.2 | - |
| 73 | | D | White | Windowsill | Wood | Intact | 5.2 | + |
| 74 | | Floor | Gray | Floor | Concrete | Intact | 1.7 | + |
| 75 | | Ceiling | White | Ceiling | Metal | Intact | 8.2 | + |
| 76 | Men's Hall | D | White | Wall | Brick | Intact | 0 | - |
| 77 | | D | Red | Frame | Metal | Intact | 0.4 | - |
| 78 | | B | White | Wall | Brick | Intact | 0.1 | - |
| 79 | | D | White | Wall | CMU | Intact | 0.2 | - |
| 80 | Office | A | White | Wall | CMU | Intact | 0.2 | - |
| 81 | | C | White | Wall | Brick | Intact | 0.3 | - |
| 82 | | A | Blue | Frame | Metal | Intact | 0.2 | - |
| 83 | | A | Tan | Door | Metal | Intact | 0.2 | - |
| 84 | Office Restroom | A | Yellow | Wall | CMU | Intact | 0.2 | - |
| 85 | | C | Yellow | Wall | Brick | Intact | 0.2 | - |
| 86 | | A | Yellow | Drain Pipe | Metal | Intact | 0.1 | - |
| 87 | | C | White | Radiator Cover | Metal | Intact | 1 | + |
| 88 | Front Exterior | | Tan | Column | Concrete | Intact | 0.6 | - |
| 89 | | | Tan | Column | Concrete | Intact | 0.1 | - |
| 90 | | | Tan | Windowsill | Wood | Intact | 0.2 | - |
| 91 | | | Tan | Frame | Wood | Intact | 37 | + |
| 92 | | | Black | Railing | Metal | Intact | 0.3 | - |
| 93 | Rear Exterior | | Tan | Windowsill | Wood | Intact | 1.7 | + |
| 94 | | | Tan | Frame | Wood | Intact | 1.3 | + |
| 95 | Basement | D | White | Wall | Brick | Damaged | 0.6 | - |
| 96 | | Ceiling | Gray | Ceiling | Concrete | Damaged | 0.3 | - |

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| HAPPY HOLLOW RECREATION CENTER | | | | | | | | |
|--------------------------------|-------------------|-------|-------|----------------|-----------|-----------|-----|--------|
| # | Location | Wall | Color | Component | Substrate | Condition | Pb | Pb +/- |
| 97 | Gym Main | B | White | Wall | Concrete | Damaged | 0.7 | + |
| 98 | | C | White | Wall | Brick | Intact | 0.1 | - |
| 99 | | A | Blue | Wall | Brick | Intact | 0.3 | - |
| 100 | | A | Blue | Door | Wood | Intact | 0.1 | - |
| 101 | | A | Blue | Doorframe | Wood | Intact | 0.2 | - |
| 102 | | A | Blue | Grate | Metal | Intact | 0.3 | - |
| 103 | | B | White | Wall | Brick | Intact | 0.3 | - |
| 104 | | B | Blue | Beam | Metal | Intact | 1.9 | + |
| 105 | | D | Blue | Beam | Metal | Intact | 1.4 | + |
| 106 | | C | Blue | Wall | Brick | Intact | 0.3 | - |
| 107 | | C | Blue | Door | Metal | Intact | 0.3 | - |
| 108 | | C | Blue | Doorframe | Metal | Intact | 0.3 | - |
| 109 | Stairwell | A | White | Wall | Brick | Intact | 0.4 | - |
| 110 | | A | Black | Rail | Metal | Intact | 0 | - |
| 111 | Second Floor | A | Tan | Doorframe | Metal | Intact | 0 | - |
| 112 | | A | Blue | Door | Metal | Intact | 0.1 | - |
| 113 | | C | White | Wall | Drywall | Intact | 0.1 | - |
| 114 | | B | White | Wall | Brick | Intact | 0.1 | - |
| 115 | Old Shower | A | Brown | Frame | Wood | Intact | 0 | - |
| 116 | | A | Blue | Wall | Ceramic | Intact | 2.1 | + |
| 117 | | Floor | White | Floor | Ceramic | Intact | 0.4 | - |
| 118 | Water Heater Room | D | White | Cabinet | Metal | Intact | 0.3 | - |
| 119 | Second Floor Room | A | White | Conduit | Metal | Intact | 0.6 | - |
| 120 | Kitchen | A | White | Wall | Drywall | Intact | 0.2 | - |
| 121 | | A | Tan | Doorframe | Metal | Intact | 0.4 | - |
| 122 | | A | Tan | Door | Metal | Intact | 0.1 | - |
| 123 | | B | Tan | Radiator Cover | Metal | Intact | 1 | + |

| HAPPY HOLLOW RECREATION CENTER | | | | | | | | |
|--------------------------------|----------------------|---------|-------|-------------|-----------|-----------|-----|--------|
| # | Location | Wall | Color | Component | Substrate | Condition | Pb | Pb +/- |
| 124 | | B | White | Wall | Drywall | Intact | 0.1 | - |
| 125 | | C | White | Wall | Drywall | Intact | 0.2 | - |
| 126 | | D | White | Wall | Drywall | Intact | 0.2 | - |
| 127 | | C | Black | Fume Hood | Metal | Intact | 0 | - |
| 128 | | Ceiling | White | Ceiling | Drywall | Intact | 0.1 | - |
| 129 | Kitchen Storage | A | White | Wall | Ceramic | Intact | 0.1 | - |
| 130 | Hall Outside Kitchen | Ceiling | White | Ceiling | Metal | Intact | 2.7 | + |
| Gym | | | | | | | | |
| 131 | Entrance | A | Blue | Wall | Brick | Intact | 0.3 | - |
| 132 | | A | Blue | Doorframe | Metal | Intact | 0.3 | - |
| 133 | | A | Black | Door | Metal | Intact | 0.3 | - |
| 134 | | A | Blue | Shelf | Metal | Intact | 0.1 | - |
| 135 | | D | Blue | Wall | Brick | Intact | 0.4 | - |
| 136 | Entry Office | A | White | Wall | Brick | Intact | 0.5 | - |
| 137 | | B | Blue | Windowframe | Metal | Intact | 0 | - |
| 138 | | D | Blue | Windowframe | Wood | Intact | 0.2 | - |
| Exterior | | | | | | | | |
| 139 | Playground | | Green | Bench | Wood | Damaged | 0.3 | - |
| 140 | Gym Back Exterior | | Red | Wall | Brick | Intact | 0.3 | - |
| 141 | | | Red | Door | Metal | Intact | 0.1 | - |
| 142 | | | Red | DoorFrame | Metal | Intact | 0.2 | - |
| 143 | Basketball Court | | Blue | Floor | Asphalt | Intact | 0.2 | - |
| 144 | | | Black | Fence | Metal | Intact | 0.1 | - |
| 145 | Basement | | Black | Hatch | Metal | Intact | 0.2 | - |

The City of Philadelphia – Department of Health defines Lead-Based Paint (LBP) to contain equal or greater than 0.70 mg/cm² lead as measured on a handheld XRF analyzer. LBP is defined by The Federal Department of Housing and Urban Development (HUD) and Environmental Protection Agency (EPA) to contain equal or greater than 1.00 mg/cm² lead as measured on a handheld XRF analyzer.

SECTION 4.0

RECOMMENDATIONS

4.1 RECOMMENDATIONS FOR CATEGORY I NONFRIABLE ACM (CAT I NF)

The following Category I Nonfriable ACM (CAT I NF) was identified during this survey:

- Stair Tread Mastic

These materials are required to be removed by a Pennsylvania licensed asbestos contractor if proposed renovations or demolition will impact these materials in such a manner as to render them friable and thus RACM. Specifically, any renovation or demolition activity that will crush, abrade, or dissolve the matrix of these materials must be performed by a Pennsylvania licensed Asbestos Contractor. If these materials are in good condition and not impacted by the renovation/demolition or if renovation/demolition work will not render the material friable then they may remain on/in the facility. If demolished, this material and the building components associated with it must be disposed of in a Construction/Demolition landfill and must not be reused or recycled.

4.2 CATEGORY II NONFRIABLE ACM

The following Category II Nonfriable ACM (CAT II NF) was identified during this survey:

- Transite

This Category II Non-friable ACM must be removed prior to any renovation or demolition activity that will crush, abrade, or dissolve the matrix of this material. The removal of this material must be performed by a Pennsylvania licensed Asbestos Contractor. If this material is in good condition and not impacted by the renovation/demolition and will remain on/in the facility, no other special handling, or action is required for this material.

4.3 ASBESTOS 10-DAY NOTIFICATION

The Department of Labor Division of Public Safety & Occupational Safety & Health Asbestos Control & Licensing Section, the Pennsylvania Department of Health and Senior Services Indoor Environments Program Consumer and Environmental Health Services, and the US Environmental Protection Agency – Region II, require notification of intent to renovate or demolish when asbestos is present. Notification must be sent at least 10 working days (5 days

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for DEP& L&I) prior to the start of any construction activities. The general contractor should also keep a copy of this survey at the construction site during the entire construction project as proof of compliance with 40 CFR 61 (NESHAP).

4.4 RECOMMENDATIONS FOR LEAD BASED PAINT

Lead-Based Paint (LBP) is defined by the City of Philadelphia – Department of Health as paint that contains lead in concentrations greater than 0.7 mg/cm². Lead-Based Paint (LBP) is defined by the Department of Housing and Urban Development (HUD) as paint that contains lead in concentrations greater than one milligram per square centimeter (1.0 mg/cm²) or 0.50% by weight. Lead in paint at any level is regulated under OSHA 29 CFR 1926.62 which applies to all construction work where an employee may be occupationally exposed to lead which includes the demolition or salvage of structures and torch cutting where lead or materials containing lead are present.

Lead Toxicity Characteristic Leaching Procedure (TCLP) samples need to be collected for outgoing demolition waste which contains known or suspected LBP to determine whether or not it is classified as Hazardous Waste under the Resource Conservation and Recovery Act (RCRA) Toxicity Characteristic (TC) Rule (40 CFR 261.24). Certain activities may trigger the necessity of Personal Protective Equipment (PPE) for the renovation/demolition workers based on their work methods as required by OSHA 29 CFR 1926.62.

SECTION 5.0

SIGNATURE PAGE

Submitted by:



Alyssa M. Cartagena
Regional Project Manager

Reviewed by:



Neeraj Batta, PE
Vice President



APPENDIX A

LABORATORY ANALYSIS REPORT – CERTIFICATES OF ANALYSIS

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NY ELAP LAB# 11993 for
PCM, PLM, TEM & Lead

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Delaware Industrial Park, 6 Garfield Way
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Tel. (302)737-3376 Fax (302) 737-5764

Web: <http://www.battaenv.com> E-mail: battaenv@battaenv.com



EPA Lab ID #DE004



NVLAP
Lab Code: 101032-D

Dept. Code: PLM

Rev. #: 0
Batch#: N/A
COC#: N/A

CERTIFICATE OF PLM ANALYSIS

Page 1 of 8

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 04/22/24

Sampling Data

BLI Project #: L363524
Project Name: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue

Date Sampled: 04/17/24

Sampled By: S.WORONIC

Date Analyzed: 04/19/24

| Sample ID | | Client-supplied Data | | | Analytical Data | | Reported Results | |
|-------------|----------------|----------------------|---------------|----------|-------------------|--------|-------------------------------|------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481663 | 01A | 1st Floor | Floor Tile | No | Firm | Gray | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481664 | 01B | 2nd Floor | Floor Tile | No | Firm | Gray | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481665 | 02A | 1st Floor | Mastic | No | Soft | Yellow | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481666 | 02B | 2nd Floor | Mastic | No | Soft | Yellow | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481667 | 03A | 1st Floor | Floor Tile | No | Firm | Blue | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

REVIEWED BY:

QA/QC Officer/Signatory

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Date Analyzed: 04/19/24

| Sample ID | | Client-supplied Data | | | Analytical Data | | Reported Results | |
|-------------|----------------|----------------------|---------------|----------|---------------------|--------|-------------------------------|------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481668 | 03B | 2nd Floor | Floor Tile | No | Firm Homogeneous | Blue | 100% Non-fibrous Material | No Asbestos Found |
| 1481669 | 04A | 1st Floor | Mastic | No | Soft Homogeneous | Yellow | 100% Non-fibrous Material | No Asbestos Found |
| 1481670 | 04B | 2nd Floor | Mastic | No | Soft Homogeneous | Yellow | 100% Non-fibrous Material | No Asbestos Found |
| 1481671 | 05A | 1st Floor | Baseboard | No | Firm Homogeneous | Black | 100% Non-fibrous Material | No Asbestos Found |
| 1481672 | 05B | 1st Floor | Baseboard | No | Firm Homogeneous | Black | 100% Non-fibrous Material | No Asbestos Found |

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Date Sampled: 04/17/24

Sampled By: S.WORONIC

Date Analyzed: 04/19/24

| Sample ID | | Client-supplied Data | | | Analytical Data | | Reported Results | |
|-------------|----------------|----------------------|---------------|----------|---------------------|--------|-------------------------------|--------------------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481673 | 06A | 1st Floor | Mastic | No | Soft Homogeneous | Yellow | 100% Non-fibrous Material | No Asbestos Found |
| 1481674 | 06B | 1st Floor | Mastic | No | Soft Homogeneous | Yellow | 100% Non-fibrous Material | No Asbestos Found |
| 1481675 | 07A | Stairs | Stair Tread | No | Firm Homogeneous | Tan | 100% Non-fibrous Material | No Asbestos Found |
| 1481676 | 07B | Stairs | Stair Tread | No | Firm Homogeneous | Tan | 100% Non-fibrous Material | No Asbestos Found |
| 1481677 | 08A | Stairs | Mastic | No | Soft Homogeneous | Brown | 98% Non-fibrous Material | 2% Chrysotile Total Asbestos = 2% |

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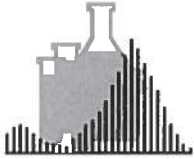
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Dept. Code: PLM

Rev. #: 0

Batch#: N/A

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CERTIFICATE OF PLM ANALYSIS

Page 4 of 8

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 04/22/24

Sampling Data

BLI Project #: L363524

Date Sampled: 04/17/24

Project Name: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue

Sampled By: S.WORONIC

Date Analyzed: 04/19/24

| Sample ID | | Client-supplied Data | | | Analytical Data | | Reported Results | |
|-------------|----------------|--|---------------|----------|-------------------|-------|-------------------------------|--|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481678 | 08B | ** Stairs | Mastic | n/a | | | | Sample Not Analyzed (positive stop rules) |
| 1481679 | 09A | 2nd Floor water heater rm | Transite | No | Firm | Gray | 85% Non- fibrous Material | 15% Chrysotile Total Asbestos = 15% |
| | | | | | Homogeneous | | | |
| 1481680 | 09B | ** 2nd Floor water heater rm | Transite | n/a | | | | Sample Not Analyzed (positive stop rules) |
| 1481681 | 10A | Boxing gym bldg-Hall outside office | Floor Tile | No | Firm | Gray | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481682 | 10B | Boxing gym bldg- Outside men's rm | Floor Tile | No | Firm | Gray | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |

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** This sample was not analyzed for reasons noted in the far right column. Batta Labs, LLC will not charge clients for samples not analyzed. Please contact Batta if charged in error.

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Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

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Date Analyzed: 04/19/24

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|-------------|----------------|--|---------------|----------|-------------------------|--------|-------------------------------|------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481683 | 11A | Boxing gym bldg-Hall outside office | Mastic | No | Soft Homogeneous | Yellow | 100% Non- fibrous Material | No Asbestos Found |
| 1481684 | 11B | Boxing gym bldg- Outside men's rm | Mastic | No | Soft Homogeneous | Yellow | 100% Non- fibrous Material | No Asbestos Found |
| 1481685 | 12A | Boxing gym bldg-Hall outside office | Mastic | No | Soft Homogeneous | Tan | 100% Non- fibrous Material | No Asbestos Found |
| 1481686 | 12B | Boxing gym bldg- Outside men's rm | Mastic | No | Soft Homogeneous | Tan | 100% Non- fibrous Material | No Asbestos Found |
| 1481687 | 13A | Boxing gym bldg-main area | Mastic | No | Soft Homogeneous | Tan | 100% Non- fibrous Material | No Asbestos Found |

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|-------------|----------------|-------------------------------------|---------------|----------|-------------------|---------|-------------------------------|------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481688 | 13B | Boxing gym bldg-main area | Mastic | No | Soft | Tan | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481689 | 14A | Boxing gym bldg-basement | Flue Packing | No | Firm | Various | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481690 | 14B | Boxing gym bldg-basement | Flue Packing | No | Firm | Various | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481691 | 15A | Boxing gym bldg-basketball entrance | Window Glaze | Yes | Firm | White | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481692 | 16A | Boxing gym bldg-basketball entrance | Window Glaze | Yes | Firm | Gray | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |

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|-------------|----------------|------------------------------------|---------------|----------|-------------------------|-------|-------------------------------|------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1482175 | 16A LAYER | Boxing gym bldg-Main boxing gym | Plaster skim | No | Firm Homogeneous | White | 100% Non- fibrous Material | No Asbestos Found |
| 1481693 | 16B | Boxing gym bldg-Main boxing gym | Plaster base | No | Firm Homogeneous | Gray | 100% Non- fibrous Material | No Asbestos Found |
| 1482176 | 16B LAYER | Boxing gym bldg-Main boxing gym | Plaster skim | No | Firm Homogeneous | White | 100% Non- fibrous Material | No Asbestos Found |
| 1481694 | 16C | Boxing gym bldg-Main boxing gym | Plaster base | No | Firm Homogeneous | Gray | 100% Non- fibrous Material | No Asbestos Found |
| 1482172 | 16C LAYER | Boxing gym bldg-Main boxing gym | Plaster skim | No | Firm Homogeneous | White | 100% Non- fibrous Material | No Asbestos Found |

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

REVIEWED BY:

QA/QC Officer/Signatory

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*This report does not constitute endorsement by NVLAP and/or any other US government agencies. PLM analyses do not fall under the purview of AIHA LAP.

*The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

*Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

*WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.

Dedicated to a Cleaner
Environment Since 1982



NY ELAP LAB# 11993 for
PCM, PLM, TEM & Lead

batta
LABORATORIES
BATTA LABORATORIES, LLC
A Certified MBE Company

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EPA Lab ID #DE004



NVLAP
Lab Code: 101032-D

Dept. Code: PLM

Rev. #: 0
Batch#: N/A
COC#: N/A

CERTIFICATE OF PLM ANALYSIS

Page 8 of 8

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 04/22/24

Sampling Data

BLI Project #: L363524
Project Name: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue

Date Sampled: 04/17/24

Sampled By: S.WORONIC

Date Analyzed: 04/19/24

| Sample ID | | Client-supplied Data | | | Analytical Data | | Reported Results | |
|-------------|----------------|------------------------------------|---------------|----------|-------------------|-------|-------------------------------|------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481695 | 16D | Boxing gym bldg-Main boxing gym | Plaster base | No | Firm | Gray | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1482173 | 16D LAYER | Boxing gym bldg-Main boxing gym | Plaster skim | No | Firm | White | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481696 | 16E | Boxing gym bldg-Main boxing gym | Plaster base | No | Firm | Gray | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1482174 | 16E LAYER | Boxing gym bldg-Main boxing gym | Plaster skim | No | Firm | White | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

REVIEWED BY:

QA/QC Officer/Signatory

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*The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

*Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

*WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



BATTA ENVIRONMENTAL ASSOCIATES, INC.
Delaware Industrial Park
6 Garfield Way
Newark, DE 19713-5817

BU#: L363524

NOTE TO ANALYST - Positive Stop Unless Otherwise Noted on this COC

BULK SAMPLE DATA SHEET

PLM ☒ EPA ☐ POINT COUNT ☐ NOB ☐ EPA

BEA# 1093723V

Date/Time Results Required: 4/22/24 5:12pm HRS
Date/Time Cert of Analysis Req: 4/22/24 5:40pm HRS
Results to: Inspector Manager: PG SW, NB
Client: Phone: Fax:

Project Name: Happy Hollow Rec Center

Site Inspected / Address: 4800 Wynn Avenue, Phila PA

Inspector(s): Steve Wronowicz

Date Inspected 4/17/24

Page 1 of 2

| FIELD | SAMPLE NUMBER LAB# | MATERIAL SAMPLED Note 2 | AHRA CLASS | Note 1 G/Dam / S/Dam | CONDITION G/Dam / S/Dam | ALL LOCATIONS, Name & Circle Sample Locations (E.1, E.2, O.1, 1.1, 1.3, 2.2, ...) | MATERIAL QUANTITY | Note 3 COMPOSITION | SAMPLE COLOR | RESULTS | |
|-------|-----------------------|----------------------------|---------------|-------------------------|----------------------------|--|----------------------|-----------------------|-----------------|---------|------|
| | | | | | | | | | | % | TYPE |
| 1 | 6603 | 12x12 Porcelain | M | G | F | A-1st Floor B-2nd Floor | 800 SF | Homo | gray | NAD | - |
| 2 | 6604 | Mastic alw 12x12 grey | M | G | F | A-1st Floor B-2nd Floor | 800 SF | | — | — | — |
| 3 | 6605 | 12x12 Porcelain (bottom) | M | G | F | | 800 SF | | blue | — | — |
| 4 | 6606 | Mastic alw blue 12x12 | M | G | F | | 800 SF | | — | — | — |
| 5 | 6607 | Baseboard | M | G | F | A+B-1st Floor | 350 LF | | black | — | — |
| 6 | 6608 | Baseboard mastic | M | D | F | A+B-1st Floor | 350 LF | | yellow | — | — |
| 7 | 6609 | Stair Tread material | M | G | F | ATB - Stairs | 45 SF | | tan | NAD | - |
| 8 | 6610 | Stair Tread mastic | M | G | F | ATB - Stairs | 45 SF | | yellow | 2 | Chry |
| 9 | 6611 | Transite Panel | M | G | F | A+B-2nd fl water heater room | 30 SF | | gray | 15 | Chry |
| 10 | 6612 | Boxing Gym | M | G | F | A-Hall outside office B-outside mens room | | | gray | NAD | - |
| 11 | 6613 | 12x12 Floor tile | M | G | F | | | Homo | gray | — | — |
| 12 | 6614 | Mastic alw gray 12x12 | M | G | F | | | | yellow | — | — |
| 13 | 6615 | Baseboard mastic | M | G | F | | | | yellow | — | — |
| 14 | 6616 | Rubber floor mastic | M | G | F | A+B-man area | | | yellow | — | — |
| 15 | 6617 | Fluor packing | T | G | F | Basement | | | multi | NAD | - |

Notes: 1 AHRA Classification: T=Thermal Insulation, S=Surfacing, M=Miscellaneous 2 Material Sampled: Pipe Covering, Boiler Breaching, Ceiling, Tile, Floor Tiles, Sheet Piling, etc. Sample Composition: Homogeneous, Mixed, Layered

Reinquired By: Date: / / Time: Received By: Date: / / Time:
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BLI#: 1343524

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Fx (302) 737-5764
www.battaenv.com

NOTE TO ANALYST - Positive Stop Unless Otherwise Noted on this COC

BULK SAMPLE DATA SHEET

Date/Time Results Required: 4/22/24 5:00pm HRS
Date/Time Cert of Analysis Req: 4/22/24 5:45pm HRS
Results to: Inspector: Manager: AC SW, NB
Phone: Fax:

BEA# 1093723K
PLM DEPA POINT COUNT INOB TEM DYESNO INOB DEPA

Project Name: Happy Hollow Rec
Site Inspected / Address: 4800 Wayne Ave Philadelphia
Inspector(s): Steve Wilkonicar Alyssa Cartagena
B.I. #: 854187

Date Inspected 4/17/24

| SAMPLE NUMBER | | MATERIAL SAMPLED <small>Note 2</small> | AHERA CLASS | <small>Note 1</small> G / Dam / S / g.D am | CONDITION | ALL LOCATIONS, Name & Circle Sample Locations (E.1, E.2, 0.1, 1.1, 1.3, 2.2, ...) | MATERIAL QUANTITY | SAMPLE | | RESULTS | |
|---------------|-------------|---|----------------|---|-----------|--|----------------------|-------------|-------|---------|------|
| FIELD | LAB | | | | | | | COMPOSITION | COLOR | % | TYPE |
| 0417 -- | 481 | Window Glazing | M | D | N | Basketball gym exterior | 1 EA | Homo | White | N/A | - |
| 150 A, B, C | 691 | Smooth Plaster walls | S | G | N | Main Boxing gym | 2000 | Layered | White | N/A | - |
| 151 A, B, C | 692-693-694 | | | | F | | | | | | |
| 152 A, B, C | 695-696 | | | | F | | | | | | |
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☐ Olympus 221810 (Scope #3)
 ☐ Nikon 222212 (Scope #5)
 Page 2 of 9
☐ Olympus 240335 (Scope #4)
 ☐ Nikon 102293 (Scope #6)
 ☐ Olympus 202705 (Scope #7)

☐ Olympus 202705 (Scope #7)

| | |
|--------------------------|---------------------------|
| <input type="checkbox"/> | Olympus 202705 (Scope #7) |
|--------------------------|---------------------------|

1093723K-HAPPY HOLLOW REC. CENTER

| Lab Sample # | Sample Descriptions | | Asbestos #1 | | Asbestos #2 | | Asbestos #3 | | % Asbestos Type (12) | | % Fibrous Non-Asbestos Type (13) | | | | Analyst's Notes |
|----------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------|---|----------------------------------|---|---------------------------------------|--|-----------------------|
| | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | | |
| 1481667 | Sample Type ¹ | Visual Gross ² | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 1 2 3 4 5 6 7 8 | | PC | | | | * scan |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | | |
| | | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 1 2 3 4 5 6 7 8 | | PC | | | | |
| | | | | | | | | | / | | VAE | | | | |
| | | | | | | | | | VAE | | VAE | | | | |
| 03A | F or N | Texture ⁵ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 1 2 3 4 5 6 7 8 | | PC | | | | Asbestos Stereo VAE % |
| | | | | | | | | | / | | VAE | | | | |
| | | | | | | | | | VAE | | VAE | | | | |

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|--------------------------------|------------|
| Nonfibrous Types ¹⁵ | Percentage |
| 6 | 100 |

| | | |
|--------------------------------|------------|---|
| Nonfibrous Types ¹⁵ | Percentage | |
| | 100 | 0 |

| | | |
|--------------------------------|------------|---|
| Nonfibrous Types ¹⁵ | Percentage | |
| | 100 | 0 |

| | |
|--------------------------------|------------|
| Nonfibrous Types ¹⁵ | Percentage |
| | 100% |

Analyst:

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAPs definition.

7. State of New Jersey DOLAWD Method (38 N.J.R. 2526)
8. CARB 435:
9. Other (specify):

BATTA PLM Bench Sheet

PLM Scope ID #: ☐ Nikon 202306 (Scope #1) ☐ Leica DM750P (Scope #2) ☐ Olympus 221810 (Scope #3) ☐ Nikon 222212 (Scope #5) ☐ Olympus 240335 (Scope #4) ☐ Nikon 102293 (Scope #6) ☐ Olympus 202705 (Scope #7)

Page 3 of 9

BLI Project # **L363524**

Name of Client/Project: **1093723K-HAPPY HOLLOW REC. CENTE**

| Sample Type ¹ | Visual Gross ² | Sample Color ³ | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|--|--|---|-----------------------------|---|--|--|--------------------------------------|---|--|---|--|---|
| Temperature (°C): 1 insulation 2 sheetrock 3 roofing material 4 soil 5 joint compound | 1 Homogenous 2 Heterogeneous 3 Layered | 1 black 7 brown 13 orange 2 tan 8 blue 14 various 3 gold 9 white 15 other 4 yellow 10 red 5 silver 11 green 6 gray 12 pink | Friable or Nonfriable | 1 cementic 2 granular 3 fibrous 4 firm 5 soft 6 paper-like | 1 wavy 2 straight 3 splayed ends 4 fiber bundles 5 single fibers 6 blocky | 1 clear 2 tan 3 blue 4 brown 5 other | 1 no 2 yes if yes, give color | 1-10 2 medium 3 high Extinction ¹⁰ 1 parallel 2 oblique Elongation ¹¹ + or - | 1 chrysotile 2 amosite 3 crocidolite 4 anthophyllite 5 tremolite 6 actinolite | 1 cellulose 2 fiberglass 3 mineral wool 4 synthetic fiber 5 wollastonite other | 1 undulose ext. 2 isotropic 3 shot 4 high birefringence 5 mult. elon. (flips) other | 1 malix 2 binder 3 CaSO ₄ 4 CaCO ₃ 5 Vermiculite 6 other |

| Sample Descriptions | | | Asbestos #1 | | Asbestos #2 | | Asbestos #3 | | % Asbestos Type (12) | | % Fibrous Non-Asbestos Type (13) | | | Analyst's |
|---------------------|--|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------|---|----------------------------------|---|---------------------------------------|-----------------------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | Notes |
| 1481671 | Sample Type ¹ <i>Baseboard</i> | Visual Gross ² <i>1</i> | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | PC | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | |
| | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ <i>1</i> | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | | |
| | | | | | | | | | / | | VAE | | | |
| | | | | | | | | | VAE | | VAE | | | |
| 05A | F or N | Texture ⁵ <i>4</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | Asbestos Stereo VAE % |
| | | | | | | | | | / | | | | | |
| | | | | | | | | | VAE | | VAE | | | |

Asbestos-Containing ☐ Non-Asbestos-Containing ☐ Analytical Method: *Mandatory*

| Sample Descriptions | | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | | | Analyst's | |
|---------------------|--|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|--|-----------------------------|------------------|--|---|---------------------------------------|--------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | | % | Method of Quant. | | % | Optical Characteristics ¹⁴ | Notes |
| 1481672 | Sample Type ¹ <i>Baseboard</i> | Visual Gross ² <i>1</i> | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | | PC | | | | |
| | | | / | | | | | | | | | | | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | | VAE | | | | |
| | | | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ <i>1</i> | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | | PC | | | | |
| | | | / | | | | | | | | | | | | | |
| | | | | | | | | | VAE | | | VAE | | | | |
| | | | | | | | | | | | | | | | | |
| 05B | F or N | Texture ⁵ <i>4</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | | PC | | | | * scan |
| | | | / | | | | | | | | | | | | | |
| | | | | | | | | | VAE | | | VAE | | | Asbestos Stereo VAE % | |
| | | | | | | | | | | | | | | | | |

Asbestos-Containing ☐ Non-Asbestos-Containing ☐ Analytical Method: *Specify if different*

| Sample Descriptions | | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | | Analyst's |
|---------------------|--------------------------------------|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|---|-----------------------------|---|---------------------------------------|-----------------------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | Notes |
| 1481673 | Sample Type ¹ <i>9</i> | Visual Gross ² <i>1</i> | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | PC | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | |
| | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ <i>4</i> | Sample Color ³ <i>4</i> | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | | * scan |
| | | | | | | | | | VAE | | VAE | | | |
| | | | | | | | | | | | | | | |
| 06A | F or N | Texture ⁵ <i>5</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | Asbestos Stereo VAE % |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Asbestos-Containing ☐ Non-Asbestos-Containing ☐ Analytical Method: *Specify if different*

| Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | | | Analyst's |
|---------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|-----------------------------|------------------|---|---------------------------------------|------------------------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | Notes |
| 1481674 | Sample Type ¹ | Visual Gross ² | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 1 2 3 4 5 6 7 8 | | PC | | | |
| | | | | | | | | / | | | | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 1 2 3 4 5 6 7 8 | | PC | | | |
| | | | | | | | | / | | | | | | |
| | | | | | | | | VAE | | VAE | | | | |
| 06B | F or N | Texture ⁵ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 1 2 3 4 5 6 7 8 | | PC | | | * scan |
| | | | | | | | | / | | | | | | Asbestos Stereop VAE % |
| | | | | | | | | VAE | | VAE | | | | |

Asbestos-Containing ☐ Non-Asbestos-Containing ☐ Analytical Method: *Specify if different*

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)

Date of Analysis: *4/14/24*

Analyst: *TF*

Analytical Methods:

* If using scan option for ELAP, circle scan in notes block.

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAPs definition.

- EPA/600/R-93/116 Without Gravimetry
- EPA/600/R-93/116 With Gravimetry
- EPA/600/R-93/116: 400 Point Count

- EPA/600/R-93/116: 1000 Point Count
- PLM NOB Chatfield Method
- NYDOH ELAP 198.1 (Stratified Point Count)

- State of New Jersey DOLA Method (38 N.J.R. 2526)
- CARB 435
- Other (specify):

BATTA PLM Bench Sheet

PLM Scope ID#: ☐ Nikon 202306 (Scope #1) ☒ Leica DM750P (Scope #2) ☐ Olympus 221810 (Scope #3) ☐ Nikon 222212 (Scope #5) ☐ Olympus 240335 (Scope #4) ☐ Nikon 102293 (Scope #6) ☐ Olympus 202705 (Scope #7)

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BLI Project # **L363524**

Name of Client/Project: **1093723K-HAPPY HOLLOW REC. CENTE**

| Sample Type ¹ | Visual Gross ² | Sample Color ³ | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ 1-to 3-hi 2 medium 3 low | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|--|--|--|-----------------------------|--|--|--|--------------------------------------|--|--|---|--|--|
| Temperature (°C): 1 insulation 2 sheetrock 3 roofing material 4 soil 5 joint compound | 1 Homogenous 2 Heterogeneous 3 Layered | 1 black 2 tan 3 gold 4 yellow 5 silver 6 gray 7 brown 8 blue 9 white 10 red 11 green 12 pink 13 orange 14 various 15 other | Friable or Nonfriable | 1 cementic. 2 granular 3 fibrous 4 firm 5 soft 6 paper-like | 1 wavy 2 straight 3 splayed ends 4 fiber bundles 5 single fibers 6 blocky | 1 clear 2 tan 3 blue 4 brown 5 other | 1 no 2 yes if yes, give color | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 | 1 chrysotile 2 amosite 3 crocidolite 4 anthophyllite 5 tremolite 6 actinolite | 1 cellulose 2 fiberglass 3 mineral wool 4 synthetic fiber 5 wollastonite 6 other | 1 undulose ext. 2 isotropic 3 shot 4 high birefringence 5 mult. elon. (flips) 6 other | 1 matrix 2 binder 3 CaSO ₄ 4 CaCO ₃ 5 Vermiculite 6 other |

| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | % Asbestos Type (12) | % Fibrous Non-Asbestos Type (13) | Analyst's Notes |
|---|---|-------------|---|---|---|----------------------|----------------------------------|-----------------------|
| 1481675 | Sample Type ¹ Visual Gross ² Fiber Color ⁷ | 1 1 1 | Morph ⁶ nD II Fiber Color ⁷ | Morph ⁶ nD II Fiber Color ⁷ | Morph ⁶ nD II Fiber Color ⁷ | 12345678 VAE | PC VAE | |
| Field Sample # | Sample Color ³ Friability ⁴ | 2 2 | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 VAE | PC VAE | * scan |
| 07A | F or N Texture ⁵ | 4 4 | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 VAE | PC VAE | Asbestos Stereo VAE % |
| Nonfibrous Types ¹⁵ Percentage | | | | | | | | 100 |

Asbestos-Containing ☐ Non-Asbestos-Containing ☒ Analytical Method: Mandated

| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|---|---|-------------|---|---|---|-----------------|-----------------------------|-----------------------|
| 1481676 | Sample Type ¹ Visual Gross ² Fiber Color ⁷ | 1 1 1 | Morph ⁶ nD II Fiber Color ⁷ | Morph ⁶ nD II Fiber Color ⁷ | Morph ⁶ nD II Fiber Color ⁷ | 12345678 VAE | PC VAE | |
| Field Sample # | Sample Color ³ Friability ⁴ | 2 2 | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 VAE | PC VAE | * scan |
| 07B | F or N Texture ⁵ | 4 4 | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 VAE | PC VAE | Asbestos Stereo VAE % |
| Nonfibrous Types ¹⁵ Percentage | | | | | | | | 100 |

Asbestos-Containing ☐ Non-Asbestos-Containing ☒ Analytical Method: Specify if different

| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|---|---|-------------|---|---|---|-----------------|-----------------------------|-----------------------|
| 1481677 | Sample Type ¹ Visual Gross ² Fiber Color ⁷ | 1 1 1 | Morph ⁶ nD II Fiber Color ⁷ | Morph ⁶ nD II Fiber Color ⁷ | Morph ⁶ nD II Fiber Color ⁷ | 12345678 VAE | PC VAE | |
| Field Sample # | Sample Color ³ Friability ⁴ | 2 2 | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 VAE | PC VAE | * scan |
| 08A | F or N Texture ⁵ | 4 4 | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 VAE | PC VAE | Asbestos Stereo VAE % |
| Nonfibrous Types ¹⁵ Percentage | | | | | | | | 100 |

Asbestos-Containing ☐ Non-Asbestos-Containing ☒ Analytical Method: Specify if different

| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|---|---|-------------|---|---|---|-----------------|-----------------------------|-----------------------|
| 1481678 | Sample Type ¹ Visual Gross ² Fiber Color ⁷ | 1 1 1 | Morph ⁶ nD II Fiber Color ⁷ | Morph ⁶ nD II Fiber Color ⁷ | Morph ⁶ nD II Fiber Color ⁷ | 12345678 VAE | PC VAE | |
| Field Sample # | Sample Color ³ Friability ⁴ | 2 2 | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 VAE | PC VAE | * scan |
| 08B | F or N Texture ⁵ | 4 4 | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 VAE | PC VAE | Asbestos Stereo VAE % |
| Nonfibrous Types ¹⁵ Percentage | | | | | | | | 100 |

Asbestos-Containing ☐ Non-Asbestos-Containing ☒ Analytical Method: Specify if different

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)

Date of Analysis: 4/19/24 Analyst: JF

Analytical Methods:

- EPA/600/R-93/116 Without Gravimetry
- EPA/600/R-93/116 With Gravimetry
- EPA/600/R-93/116: 400 Point Count

* if using scan option for ELAP, circle scan in notes block.

- EPA/600/R-93/116: 1000 Point Count
- PLM NOB Chatfield Method
- NYDOH ELAP 198.1 (Stratified Point Count)

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAPs definition.

- State of New Jersey DOLAWD Method (38 N.J.R. 2526)
- CARB 435:
- Other (specify):

BATTA PLM Bench Sheet

PLM Scope ID#: ☐ Nikon 202306 (Scope #1) ☒ Leica DM750P (Scope #2) ☐ Olympus 221810 (Scope #3) ☐ Nikon 222212 (Scope #5) ☐ Olympus 240335 (Scope #4) ☐ Nikon 102293 (Scope #6) ☐ Olympus 202705 (Scope #7)

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BLI Project # L363524

Name of Client/Project: 1093723K-HAPPY HOLLOW REC. CENTE

| Sample Type ¹ | Visual Gross ² | Sample Color ³ | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|--|--|--|-----------------------------|---|--|--|---|---|--|---|---|--|
| Temperature (°C): 1 insulation 2 sheetrock 3 roofing material 4 soil 5 joint compound | 1 Homogenous 2 Heterogeneous 3 Layered | 1 black 2 tan 3 gold 4 yellow 5 silver 6 gray 7 brown 8 blue 9 white 10 red 11 green 12 pink 13 orange 14 various 15 other | Friable or Nonfriable | 1 cementic 2 granular 3 fibrous 4 firm 5 soft 6 paper-like | 1 wavy 2 straight 3 splayed ends 4 fiber bundles 5 single fibers 6 blocky | 1 clear 2 tan 3 blue 4 brown 5 other | 1 no 2 yes if yes, give color | 1-10 3-11 2 medium Extinction ¹⁰ 1 parallel 2 oblique Elongation ¹¹ + or - | 1 chrysotile 2 amosite 3 crocidolite 4 anthophyllite 5 tremolite 6 actinolite | 1 cellulose 2 fiberglass 3 mineral wool 4 synthetic fiber 5 wollastonite other | 1 undulose ext. 2 isotropic 3 shot 4 high birefringence 5 mult. elon (flips) other | 1 matrix 2 binder 3 CaSO ₄ 4 CaCO ₃ 5 Vermiculite 6 other |

| Lab Sample # | Sample Descriptions | Asbestos #1 | Asbestos #2 | Asbestos #3 | % Asbestos Type (12) | % Fibrous Non-Asbestos Type (13) | Analyst's Notes |
|---|---|---|---|---|----------------------|----------------------------------|---------------------------------------|
| Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | Method of Quant. | Method of Quant. | Optical Characteristics ¹⁴ |
| 1481679 | Sample Type ¹ Visual Gross ² Fiber Color ⁷ | Morph ⁶ N ^D II Fiber Color ⁷ | Morph ⁶ N ^D II Fiber Color ⁷ | Morph ⁶ N ^D II Fiber Color ⁷ | 12345678 VAE | PC VAE | |
| Field Sample # | Friability ⁴ | Sample Color ³ Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 VAE | PC VAE | * scan |
| 09A | F or N | Texture ⁵ Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 VAE | PC VAE | Asbestos Stereo VAE % |
| Asbestos-Containing <input type="checkbox"/> Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <u>Macroscopic</u> | | Nonfibrous Types ¹⁵ | | Percentage | |

| Lab Sample # | Sample Descriptions | Type #1 | Type #2 | Type #3 | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|---|---|---|---|---|------------------|-----------------------------|---------------------------------------|
| Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | Method of Quant. | Method of Quant. | Optical Characteristics ¹⁴ |
| 1481680 | Sample Type ¹ Visual Gross ² Fiber Color ⁷ | Morph ⁶ N ^D II Fiber Color ⁷ | Morph ⁶ N ^D II Fiber Color ⁷ | Morph ⁶ N ^D II Fiber Color ⁷ | 12345678 VAE | PC VAE | |
| Field Sample # | Friability ⁴ | Sample Color ³ Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 VAE | PC VAE | * scan |
| 09B | F or N | Texture ⁵ Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 VAE | PC VAE | Asbestos Stereo VAE % |
| Asbestos-Containing <input type="checkbox"/> Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <u>Specify if different</u> | | Nonfibrous Types ¹⁵ | | Percentage | |

| Lab Sample # | Sample Descriptions | Type #1 | Type #2 | Type #3 | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|---|---|---|---|---|------------------|-----------------------------|---------------------------------------|
| Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | Method of Quant. | Method of Quant. | Optical Characteristics ¹⁴ |
| 1481681 | Sample Type ¹ Visual Gross ² Fiber Color ⁷ | Morph ⁶ N ^D II Fiber Color ⁷ | Morph ⁶ N ^D II Fiber Color ⁷ | Morph ⁶ N ^D II Fiber Color ⁷ | 12345678 VAE | PC VAE | |
| Field Sample # | Friability ⁴ | Sample Color ³ Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 VAE | PC VAE | * scan |
| 10A | F or N | Texture ⁵ Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 VAE | PC VAE | Asbestos Stereo VAE % |
| Asbestos-Containing <input type="checkbox"/> Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <u>Specify if different</u> | | Nonfibrous Types ¹⁵ | | Percentage | |

| Lab Sample # | Sample Descriptions | Type #1 | Type #2 | Type #3 | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|---|---|---|---|---|------------------|-----------------------------|---------------------------------------|
| Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | Method of Quant. | Method of Quant. | Optical Characteristics ¹⁴ |
| 1481682 | Sample Type ¹ Visual Gross ² Fiber Color ⁷ | Morph ⁶ N ^D II Fiber Color ⁷ | Morph ⁶ N ^D II Fiber Color ⁷ | Morph ⁶ N ^D II Fiber Color ⁷ | 12345678 VAE | PC VAE | |
| Field Sample # | Friability ⁴ | Sample Color ³ Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 VAE | PC VAE | * scan |
| 10B | F or N | Texture ⁵ Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 VAE | PC VAE | Asbestos Stereo VAE % |
| Asbestos-Containing <input type="checkbox"/> Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <u>Specify if different</u> | | Nonfibrous Types ¹⁵ | | Percentage | |

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)

Date of Analysis: 4/19/24

Analyst: TT

Analytical Methods:

* If using scan option for ELAP, circle scan in notes block.

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAPs definition.

1. EPA/600/R-93/116 Without Gravimetry
2. EPA/600/R-93/116 With Gravimetry
3. EPA/600/R-93/116: 400 Point Count

4. EPA/600/R-93/116: 1000 Point Count
5. PLM NOB Chatfield Method
6. NYDOH ELAP 198.1 (Stratified Point Count)

7. State of New Jersey DOLA Method (38 N.J.R. 2526)
8. CARB 435:
9. Other (specify):

9. Other (specify):

BATTA PLM Bench Sheet

PLM Scope ID#: ☐ Nikon 202306 (Scope #1)

☐ Leica DM750P (Scope #2)

☐ Olympus 221810 (Scope #3)

☐ Olympus 240335 (Scope #4)

☐ Nikon 222212 (Scope #5)

☐ Nikon 102293 (Scope #6)

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☐ Olympus 202705 (Scope #7)

BLI Project # L363524

Name of Client/Project:

1093723K-HAPPY HOLLOW REC. CENTE

| Sample Type ¹ | Visual Gross ² | Sample Color ³ | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ 1-to 3-hi 2 medium 3 low | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|--|---|--|-----------------------------|--|--|--|-------------------------------------|--|--|---|--|--|
| Temperature (°C): 1 insulation 2 sheetrock 3 roofing material 4 soil 5 joint compound | 6 ceiling tile 7 linoleum 8 floor tile 9 mastic/adhesive 10 plaster | 1 black 2 tan 3 gold 4 yellow 5 silver 6 gray 7 brown 8 blue 9 white 10 red 11 green 12 pink 13 orange 14 various 15 other | Friable or Nonfriable | 1 cementic. 2 granular 3 fibrous 4 firm 5 soft 6 paper-like | 1 wavy 2 straight 3 splayed ends 4 fiber bundles 5 single fibers 6 blocky | 1 clear 2 tan 3 blue 4 brown 5 other | 1 no 2 yes if yes, give color | 1 parallel 2 oblique 3 extinction 4 elongation 5 other | 1 chrysotile 2 amosite 3 crocidolite 4 anthophyllite 5 tremolite 6 actinolite | 1 cellulose 2 fiberglass 3 mineral wool 4 synthetic fiber 5 wollastonite 6 other | 1 undulose ext. 2 isotropic 3 shot 4 high birefringence 5 mult. elon. (flips) 6 other | 1 matrix 2 binder 3 CaSO ₄ 4 CaCO ₃ 5 Vermiculite 6 other |

| Lab Sample # | Sample Descriptions | Asbestos #1 | Asbestos #2 | Asbestos #3 | % Asbestos Type (12) | % Fibrous Non-Asbestos Type (13) | Analyst's Notes |
|----------------------|---|--|--|--|----------------------|--|-----------------------|
| Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | Method of Quant. | Method of Quant. | |
| 1481687 | Sample Type ¹ Visual Gross ² | Morph ⁶ Fiber Color ⁷ | Morph ⁶ Fiber Color ⁷ | Morph ⁶ Fiber Color ⁷ | 12345678 VAE | PC VAE | |
| Field Sample # | Friability ⁴ Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 VAE | PC VAE | * scan |
| 13A | F or N Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 VAE | PC VAE | Asbestos Stereo VAE % |
| | | | | | | Nonfibrous Types ¹⁵ Percentage | |

| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: | | Mandatory | | Nonfibrous Types <u>6</u> | | Fibrous <u>100</u> | | Percentage <u>0</u> | | |
|--|--------------------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------|-----------------------------|---------------------|-----------------|---------------------------------------|
| Lab Sample # | Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | Analyst's Notes | |
| | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | | Optical Characteristics ¹⁴ |
| 1481688 | Sample Type ¹ <u>9</u> | Visual Gross ² <u>1</u> | Morph ⁶ | <u>ND</u> ¹¹ | Morph ⁶ | <u>ND</u> ¹¹ | Morph ⁶ | <u>ND</u> ¹¹ | <u>12345678</u> | | PC | | | |
| | | | Fiber Color ⁷ | <u>ND</u> ¹¹ | Fiber Color ⁷ | <u>ND</u> ¹¹ | Fiber Color ⁷ | <u>ND</u> ¹¹ | VAE | | VAE | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ <u>3</u> | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | <u>12345678</u> | | PC | | | * scan |
| | | | | | | | | | VAE | | VAE | | | |
| 13B | F or N | Texture ⁵ <u>3</u> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | <u>12345678</u> | | PC | | | Asbestos Stereo VAE % <u>100</u> |
| | | | | | | | | | VAE | | VAE | | | |
| | | | | | | | | | Nonfibrous Types <u>6</u> | | Percentage <u>0</u> | | | |

| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <input type="checkbox"/> | | Specify if different | | Nonfibrous Types <input type="checkbox"/> | | Percentage <input type="checkbox"/> | | Fibrous Non-Asbestos (13) <input type="checkbox"/> | | Analyst's Notes <input type="checkbox"/> | |
|--|----------------------------------|--|--------------------------|---|--------------------------|--------------------------|--------------------------|---|---|-------------------------------------|-------------------------------------|--|---------------------------------------|--|-----------------------|
| Lab Sample # | Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | Analyst's Notes | | |
| | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | Notes | |
| 1481689 | Sample Type ¹ Flow | Visual Gross ² 1 | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | PC | | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | | |
| Field Sample # | Friability ⁴ 14 | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | | | |
| | | | | | | | | | / | | VAE | | | | * scan |
| 14A | F or N | Texture ⁵ 4 | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | | |
| | | | | | | | | | / | | VAE | | | | Asbestos Stereo VAE % |
| | | | | | | | | | Nonfibrous Types <input type="checkbox"/> | | Percentage <input type="checkbox"/> | | | | |

| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <input type="checkbox"/> | | Specify if different | | Nonfibrous Types <input type="checkbox"/> | | Fibrous Non-Asbestos <input type="checkbox"/> | | Analyst's Notes | |
|--|--|--|--------------------------|---|--------------------------|--------------------------|--------------------------|---|------------------|---|-----------------------------|-----------------|-----------------------|
| Lab Sample # | Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | Analyst's Notes |
| | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | | Method of Quant. | | |
| 1481690 | Sample Type ¹ <i>Alc</i> | Visual Gross ² <i>1</i> | Morph ⁶ | <i>nD II</i> | Morph ⁶ | <i>nD II</i> | Morph ⁶ | <i>nD II</i> | 1 2 3 4 5 6 7 8 | | PC | | |
| | | | Fiber Color ⁷ | <i>nD ⊥</i> | Fiber Color ⁷ | <i>nD ⊥</i> | Fiber Color ⁷ | <i>nD ⊥</i> | VAE | | VAE | | |
| | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ <i>14</i> | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 1 2 3 4 5 6 7 8 | | PC | | |
| | | | | | | | | | VAE | | VAE | | |
| | | | | | | | | | | | | | |
| 14B | F or N | Texture ⁵ <i>4</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 1 2 3 4 5 6 7 8 | | PC | | Asbestos Stereo VAE % |
| | | | | | | | | | VAE | | VAE | | |
| | | | | | | | | | | | | | |

| Asbestos-Containing | Non-Asbestos-Containing | Analytical Method: | Specify if different |
|--------------------------|--------------------------|--------------------|----------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | | |

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)

Date of Analysis:

Analyst:

Analytical Methods:

* If using scan option for ELAP, circle scan in notes block.

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAP's definition.

- EPA/600/R-93/116 Without Gravimetry
- EPA/600/R-93/116 With Gravimetry
- EPA/600/R-93/116: 400 Point Count

- EPA/600/R-93/116: 1000 Point Count
- PLM NOB Chatfield Method
- NYDOH ELAP 198.1 (Stratified Point Count)

- State of New Jersey DOLAWD Method (38 N.J.R. 2526)
- CARB 435:
- Other (specify):

BATTA PLM Bench Sheet

PLM Scope ID#: ☐ Nikon 202306 (Scope #1) ☒ Leica DM750P (Scope #2)

☐ Olympus 221810 (Scope #3)

☐ Nikon 222212 (Scope #5)

Page 8 of 9

☐ Olympus 240335 (Scope #4)

☐ Nikon 102293 (Scope #6)

☐ Olympus 202705 (Scope #7)

BLI Project # **L363524**

Name of Client/Project: **1093723K-HAPPY HOLLOW REC. CENTE**

| Sample Type ¹ | Visual Gross ² | Sample Color ³ | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|--------------------------|---------------------------|---------------------------|-------------------------|-----------------------------|-------------------------|---|--------------------------|----------------------------|------------------------------|----------------------------------|--|---------------------------------|
| Temperature (°C): | | 1 black 7 brown 13 orange | | 1 cementic | 1 wavy | | | 1 1-to 3-hi | 1 chrysotile | 1 cellulose | 1 undulose ext. | 1 matrix |
| 1 insulation | 6 ceiling tile | 2 tan 8 blue 14 various | Friable | 2 granular | 2 straight | 1 clear | 1 no 2 yes | 2 medium | 2 amosite | 2 fiberglass | 2 isotropic | 2 binder |
| 2 sheetrock | 7 linoleum | 3 gold 9 white 15 other | or | 3 fibrous | 3 splayed ends | 2 tan | | Extinction ¹⁰ | 3 crocidolite | 3 mineral wool | 3 shot | 3 CaSO ₄ |
| 3 roofing material | 8 floor tile | 4 yellow 10 red | Nonfriable | 4 lim | 4 fiber bundles | 3 blue | | 1 parallel | 4 anthophyllite | 4 synthetic fiber | 4 high birefringence | 4 CaCO ₃ |
| 4 soil | 9 mastic/adhesive | 5 silver 11 green | | 5 soft | 5 single fibers | 4 brown | if yes, give color | 2 oblique | 5 tremolite | 5 wollastonite | 5 mult. elon. (flips) | 5 Vermiculite |
| 5 joint compound | 10 plaster | 6 gray 12 pink | | 6 paper-like | 6 blocky | 5 other | | Elongation ¹¹ | 6 actinolite | other | other | 6 other |
| | | | | | | | | + or - | | | | |

| Sample Descriptions | | Asbestos #1 | | Asbestos #2 | | Asbestos #3 | | % Asbestos Type (12) | | % Fibrous Non-Asbestos Type (13) | | | Analyst's | |
|---------------------|--|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|----------------------------------|------------------|---|---------------------------------------|-----------------------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | Notes |
| 1481691 | Sample Type ¹ <i>Glaze</i> | Visual Gross ² <i>1</i> | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | PC | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | / | | VAE | | | |
| | | | | | | | | | VAE | | VAE | | | |
| | | | | | | | | | 12345678 | | PC | | | |
| Field Sample # | Friability ⁴ <i>9</i> | Sample Color ³ <i>9</i> | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | / | | PC | | | |
| | | | | | | | | | VAE | | VAE | | | |
| | | | | | | | | | 12345678 | | PC | | | |
| | | | | | | | | | / | | VAE | | | |
| 15A | F or N | Texture ⁵ <i>4</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | Asbestos Stereo VAE % |
| | | | | | | | | | / | | VAE | | | |
| | | | | | | | | | VAE | | VAE | | | |
| | | | | | | | | | | | | | | |

| | | |
|--|--|------------------------------|
| Asbestos-Containing <input type="checkbox"/> | Non-Asbestos-Containing <input type="checkbox"/> | Analytical Method: Mandatory |
|--|--|------------------------------|

| Sample Descriptions | | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | | Analyst's |
|---------------------|--|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|---|-----------------------------|---|---------------------------------------|-----------------------------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | Notes |
| 1481692 | Sample Type ¹ <i>10 Skin</i> | Visual Gross ² <i>1</i> | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | PC | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | |
| | | | | | | | | | 12345678 | | PC | | | |
| | | | | | | | | | VAE | | VAE | | | |
| Field Sample # | Friability ⁴ <i>9</i> | Sample Color ³ <i>9</i> | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | / | | PC | | | <i>layer</i> * scan |
| | | | | | | | | | VAE | | VAE | | | |
| | | | | | | | | | 12345678 | | PC | | | |
| | | | | | | | | | VAE | | VAE | | | |
| 16A | F or N | Texture ⁵ <i>4</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | Asbestos Stereo VAE % |
| | | | | | | | | | / | | | | | |
| | | | | | | | | | VAE | | VAE | | | |
| | | | | | | | | | | | | | | |

| | | |
|--|--|---|
| Asbestos-Containing <input type="checkbox"/> | Non-Asbestos-Containing <input type="checkbox"/> | Analytical Method: Specify if different |
|--|--|---|

| Asbestos Containing | | Non-Asbestos Containing | | Analytical Method | | | | | | | | | | | | | | | | | |
|---------------------|--|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|---|-----------------------------|---|---------------------------------------|--|-----------------------|--|--|--|--|--|--|
| Lab Sample # | Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | Optical Characteristics ¹⁴ | | Analyst's Notes | | | | | | |
| | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | | | | | | | | | |
| 1481693 | Sample Type ¹ <i>10 skin</i> | Visual Gross ² <i>1</i> | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | PC | | | | | | | | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ <i>4</i> | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | | | | | | | | | |
| | | | | | | | | | / | | VAE | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 16B | F or N | Texture ⁵ <i>4</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | | | | | | | | |
| | | | | | | | | | / | | VAE | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Asbestos Stereop VAE% | | | | | | |

| | | |
|--|--|---|
| Asbestos-Containing <input type="checkbox"/> | Non-Asbestos-Containing <input type="checkbox"/> | Analytical Method: Specify if different |
|--|--|---|

| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <input type="text"/> | | Specify if different | | 6 | | 100 | | | |
|--|--------------------------|--|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|------------------|-----|-----------------------------|---|-----------------------|
| Lab Sample # | Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | Analyst's Notes |
| | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | |
| 1481694 | Sample Type ¹ | Visual Gross ² | Morph ⁶ | nD | Morph ⁶ | nD | Morph ⁶ | nD | 1 2 3 4 5 6 7 8 | | PC | | |
| | 10 skin | 1 | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | |
| | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 1 2 3 4 5 6 7 8 | | PC | | |
| | | | | | | | | | / | | VAE | | |
| | | | | | | | | | | | | | |
| 16C | F or N | Texture ⁵ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 1 2 3 4 5 6 7 8 | | PC | | |
| | | | | | | | | | / | | VAE | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Asbestos Stereo VAE % |

| | | |
|--|--|---|
| Asbestos-Containing <input type="checkbox"/> | Non-Asbestos-Containing <input type="checkbox"/> | Analytical Method: Specify if different |
|--|--|---|

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)

Date of Analysis: 4/19/24

Analyst: T

Analytical Methods:

* If using scan option for ELAP, circle scan in notes block.

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAPs definition.

- EPA/600/R-93/116 Without Gravimetry
- EPA/600/R-93/116 With Gravimetry
- EPA/600/R-93/116: 400 Point Count

- EPA/600/R-93/116: 1000 Point Count
- PLM NOB Chatfield Method
- NYDOH ELAP 198.1 (Stratified Point Count)

- State of New Jersey DOLAWD Method (38 N.J.R. 2526)
- CARB 435:
- Other (specify):

BATTA PLM Bench Sheet

☐ Olympus 221810 (Scope #3) ☐ Nikon 22212 (Scope #5) Page 9 of 9
☐ Nikon 202306 (Scope #1) ☒ Leica DM750P (Scope #2) ☐ Olympus 240335 (Scope #4) ☐ Nikon 102293 (Scope #6) ☐ Olympus 202705 (Scope #7)

BLI Project # **L363524**

Name of Client/Project: **1093723K-HAPPY HOLLOW REC. CENTE**

| Sample Type ¹ | Visual Gross ² | Sample Color ³ | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|--------------------------|---------------------------|---------------------------|-------------------------|-----------------------------|-------------------------|---|--------------------------|----------------------------|------------------------------|----------------------------------|--|---------------------------------|
| Temperature (°C): | | 1 black 7 brown 13 orange | | 1 cementic. | 1 wavy | | | 1-4 3-Hi | 1 chrysotile | 1 cellulose | 1 undulose ext. | 1 matrix |
| 1 insulation | 6 ceiling tile | 2 tan 8 blue 14 various | Friable | 2 granular | 2 straight | 1 clear | 1 no 2 yes | 2 medium | 2 amosite | 2 fiberglass | 2 isotropic | 2 binder |
| 2 sheetrock | 7 linoleum | 3 gold 9 white 15 other | or | 3 fibrous | 3 splayed ends | 2 tan | | Extinction ¹⁰ | 3 crocidolite | 3 mineral wool | 3 shot | 3 CaSO ₄ |
| 3 roofing material | 8 floor tile | 4 yellow 10 red | Nonfriable | 4 lim | 4 fiber bundles | 3 blue | | 1 parallel | 4 anthophyllite | 4 synthetic fiber | 4 high birefringence | 4 CaCO ₃ |
| 4 soil | 9 mastic/adhesive | 5 silver 11 green | | 5 soft | 5 single fibers | 4 brown | if yes, give color | 2 oblique | 5 tremolite | 5 wollastonite | 5 mult. elon. (flips) | 5 Vermiculite |
| 5 joint compound | 10 plaster | 6 gray 12 pink | | 6 paper-like | 6 blocky | 5 other | | Elongation ¹¹ | 6 actinolite | 6 other | 6 other | 6 other |

| Lab Sample # | Sample Descriptions | Asbestos #1 | Asbestos #2 | Asbestos #3 | % Asbestos Type (12) | % Fibrous Non-Asbestos Type (13) | Analyst's Notes |
|--------------|--------------------------|---------------------------|--|---|---|---|-----------------|
| | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Method of Quant. | Method of Quant. | |
| | Sample Type ¹ | Visual Gross ² | Morph ⁶ ND II | Morph ⁶ ND II | Morph ⁶ ND II | PC | |
| 1481695 | 10 Skin | 1 | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | VAE | |
| | Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | |
| | | 9 | | | | | |
| 16D | F or N | Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | PC | |
| | | 4 | | | | VAE | |

| | | |
|--|---|------------------------------|
| Asbestos-Containing <input type="checkbox"/> | Non-Asbestos-Containing <input checked="" type="checkbox"/> | Analytical Method: Mandatory |
|--|---|------------------------------|

| Lab Sample # | Sample Descriptions | Type #1 | Type #2 | Type #3 | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|--------------|--------------------------|---------------------------|--|---|---|---|-----------------|
| | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | Method of Quant. | |
| | Sample Type ¹ | Visual Gross ² | Morph ⁶ ND II | Morph ⁶ ND II | Morph ⁶ ND II | PC | |
| 1481696 | 10 Skin | 1 | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | VAE | |
| | Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | |
| | | 9 | | | | | |
| 16E | F or N | Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | PC | |
| | | 4 | | | | VAE | |

| | | |
|--|---|---|
| Asbestos-Containing <input type="checkbox"/> | Non-Asbestos-Containing <input checked="" type="checkbox"/> | Analytical Method: Specify it different |
|--|---|---|

| Lab Sample # | Sample Descriptions | Type #1 | Type #2 | Type #3 | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|--------------|--------------------------|---------------------------|--|---|---|---|-----------------|
| | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | Method of Quant. | |
| | Sample Type ¹ | Visual Gross ² | Morph ⁶ ND II | Morph ⁶ ND II | Morph ⁶ ND II | PC | |
| 1482175 | 108 Skin | 1 | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | VAE | |
| | Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | |
| | | 6 | | | | | |
| 16A | F or N | Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | PC | |
| | | 4 | | | | VAE | |

| | | |
|--|---|---|
| Asbestos-Containing <input type="checkbox"/> | Non-Asbestos-Containing <input checked="" type="checkbox"/> | Analytical Method: Specify it different |
|--|---|---|

| Lab Sample # | Sample Descriptions | Type #1 | Type #2 | Type #3 | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|--------------|--------------------------|---------------------------|--|---|---|---|-----------------|
| | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | Method of Quant. | |
| | Sample Type ¹ | Visual Gross ² | Morph ⁶ ND II | Morph ⁶ ND II | Morph ⁶ ND II | PC | |
| 176 | 108 Skin | 1 | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | VAE | |
| | Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | |
| | | 6 | | | | | |
| 16B | F or N | Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | PC | |
| | | 4 | | | | VAE | |

| | | |
|--|---|---|
| Asbestos-Containing <input type="checkbox"/> | Non-Asbestos-Containing <input checked="" type="checkbox"/> | Analytical Method: Specify it different |
|--|---|---|

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)

Date of Analysis: 4/19/24

Analyst: J

Analytical Methods:

- EPA/600/R-93/116 Without Gravimetry
- EPA/600/R-93/116 With Gravimetry
- EPA/600/R-93/116: 400 Point Count

* If using scan option for ELAP, circle scan in notes block.

- EPA/600/R-93/116: 1000 Point Count
- PLM NOB Chatfield Method
- NYDOH ELAP 198.1 (Stratified Point Count)

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAP's definition.

- State of New Jersey DOLA Method (38 N.J.R. 2526)
- CARB 435:
- Other (specify):

BATTA PLM Bench Sheet

PLM Scope ID#: ☐ Nikon 202306 (Scope #1) ☒ Olympus 222204 (Scope #2) ☐ Olympus 240335 (Scope #4) ☐ Nikon 222212 (Scope #5) ☐ Nikon 102293 (Scope #6) ☐ Olympus 202705 (Scope #7) Page of

BLI Project #

Name of Client/Project:

| Sample Type ¹ | Visual Gross ² | Sample Color ³ | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ 1-lo 3-hi | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|--|---|--|---|-----------------------------|---|--|--|---|--|---|--|--|
| Temperature (°C): 1 insulation 2 sheetrock 3 roofing material 4 soil 5 joint compound | 6 ceiling tile 7 linoleum 8 floor tile 9 mastic/adhesive 10 plaster | 1 Homogenous 2 Heterogeneous 3 Layered | 1 black 7 brown 13 orange 2 tan 8 blue 14 various 3 gold 9 white 15 other | Friable or Nonfriable | 1 cementic 2 granular 3 fibrous 4 firm 5 soft 6 paper-like | 1 wavy 2 straight 3 splayed ends 4 fiber bundles 5 single fibers 6 blocky | 1 clear 2 tan 3 blue 4 brown 5 other | 1 no 2 yes # yes, give color | 1 chrysotile 2 amosite 3 crocidolite 4 anthophyllite 5 tremolite 6 actinolite | 1 cellulose 2 fiberglass 3 mineral wool 4 synthetic fiber 5 wollastonite 6 other | 1 undulose ext. 2 isotropic 3 shot 4 high birefringence 5 mult. elon. (flips) 6 other | 1 matrix 2 binder 3 CaSO ₄ 4 CaCO ₃ 5 Vermiculite 6 other |

| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | % Asbestos Type (12) | % Fibrous Non-Asbestos Type (13) | Optical Characteristics ¹⁴ | Analyst's Notes |
|----------------|-------------------------|-------------------------------|---|---|---|----------------------|----------------------------------|---------------------------------------|-----------------------|
| 1482 | 10342 | Visual Gross ² | Morph ⁶ "D II | Morph ⁶ "D II | Morph ⁶ "D II | 1 2 3 4 5 6 7 8 | PC | | |
| | | Fiber Color ⁷ "D ± | Fiber Color ⁷ "D ± | Fiber Color ⁷ "D ± | Fiber Color ⁷ "D ± | VAE | VAE | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 1 2 3 4 5 6 7 8 | PC | | scan * |
| | | | | | | VAE | VAE | | |
| 16C | F or N | Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 1 2 3 4 5 6 7 8 | PC | | Asbestos Stereo VAE % |
| | | | | | | VAE | VAE | | |

Asbestos-Containing ☐ Non-Asbestos-Containing ☐ Analytical Method: ☒ Magnifying

| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | % Asbestos Type (12) | % Fibrous Non-Asbestos Type (13) | Optical Characteristics ¹⁴ | Analyst's Notes |
|----------------|-------------------------|-------------------------------|---|---|---|----------------------|----------------------------------|---------------------------------------|-----------------------|
| 173 | 10842 | Visual Gross ² | Morph ⁶ "D II | Morph ⁶ "D II | Morph ⁶ "D II | 1 2 3 4 5 6 7 8 | PC | | |
| | | Fiber Color ⁷ "D ± | Fiber Color ⁷ "D ± | Fiber Color ⁷ "D ± | Fiber Color ⁷ "D ± | VAE | VAE | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 1 2 3 4 5 6 7 8 | PC | | scan * |
| | | | | | | VAE | VAE | | |
| 16D | F or N | Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 1 2 3 4 5 6 7 8 | PC | | Asbestos Stereo VAE % |
| | | | | | | VAE | VAE | | |

Asbestos-Containing ☐ Non-Asbestos-Containing ☐ Analytical Method: ☐ Specify if different

| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | % Asbestos Type (12) | % Fibrous Non-Asbestos Type (13) | Optical Characteristics ¹⁴ | Analyst's Notes |
|----------------|-------------------------|-------------------------------|---|---|---|----------------------|----------------------------------|---------------------------------------|-----------------------|
| 174 | 10342 | Visual Gross ² | Morph ⁶ "D II | Morph ⁶ "D II | Morph ⁶ "D II | 1 2 3 4 5 6 7 8 | PC | | |
| | | Fiber Color ⁷ "D ± | Fiber Color ⁷ "D ± | Fiber Color ⁷ "D ± | Fiber Color ⁷ "D ± | VAE | VAE | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 1 2 3 4 5 6 7 8 | PC | | scan * |
| | | | | | | VAE | VAE | | |
| 16E | F or N | Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 1 2 3 4 5 6 7 8 | PC | | Asbestos Stereo VAE % |
| | | | | | | VAE | VAE | | |

Asbestos-Containing ☐ Non-Asbestos-Containing ☐ Analytical Method: ☐ Specify if different

| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | % Asbestos Type (12) | % Fibrous Non-Asbestos Type (13) | Optical Characteristics ¹⁴ | Analyst's Notes |
|----------------|-------------------------|-------------------------------|---|---|---|----------------------|----------------------------------|---------------------------------------|-----------------------|
| | | Visual Gross ² | Morph ⁶ "D II | Morph ⁶ "D II | Morph ⁶ "D II | 1 2 3 4 5 6 7 8 | PC | | |
| | | Fiber Color ⁷ "D ± | Fiber Color ⁷ "D ± | Fiber Color ⁷ "D ± | Fiber Color ⁷ "D ± | VAE | VAE | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 1 2 3 4 5 6 7 8 | PC | | scan * |
| | | | | | | VAE | VAE | | |
| | F or N | Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 1 2 3 4 5 6 7 8 | PC | | Asbestos Stereo VAE % |
| | | | | | | VAE | VAE | | |

Asbestos-Containing ☐ Non-Asbestos-Containing ☐ Analytical Method: ☐ Specify if different

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)

Date of Analysis:

Analyst:

Analytical Methods:

- 1. EPA/600/R-93/116 Without Gravimetry
- 2. EPA/600/R-93/116 With Gravimetry
- 3. EPA/600/R-93/116: 400 Point Count
- 4. EPA/600/R-93/116: 1000 Point Count
- 5. PLM NOB Chatfield Method
- 6. NYDOH ELAP 198.1 (Stratified Point Count)

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAP's definition.

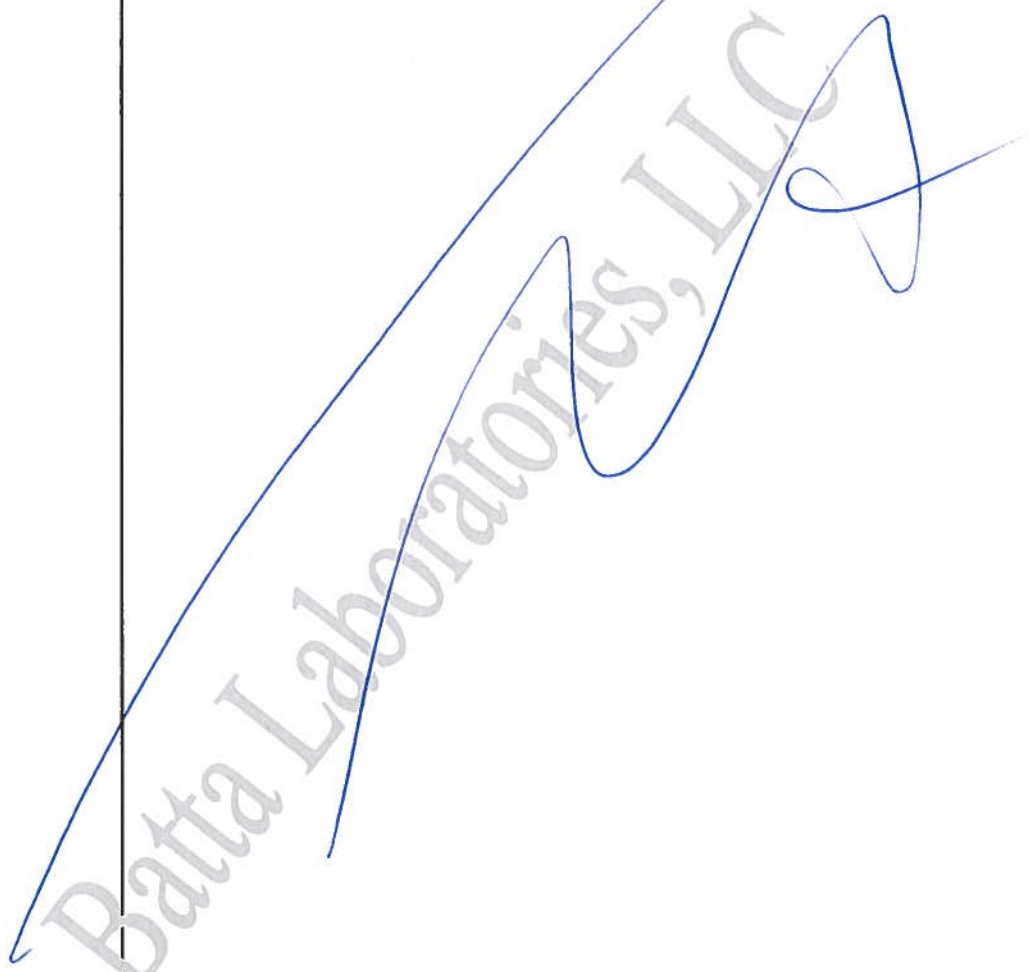
- 7. State of New Jersey DOLA Method (38 N.J.R. 2528)
- 8. CARB 435
- 9. Other (specify):

Analysts' Notes

Page of

BLI Project # L363524

Client/BEA Project # 1093723K-HAPPY HOLLOW REC. CENTER

| Sample Number | Comments |
|---------------|---|
| |  |

Date:

4/19/24

Analyst:

[Signature]



APPENDIX B

COMPANY AND INDIVIDUAL LICENSES & CERTIFICATIONS

EHS TRAINING INSTITUTE, INC.

A Division of BATTA, Inc.

Certificate of Completion

AHERA Building Inspector

(Refresher)

Awarded To:

Alyssa Cartagena

SS#:XXX-XX-9856

Who has completed this 4-hour course and examination,
EPA Approved under TSCA Title II
AHERA / ASHARA Rule
40 CFR Part 763.

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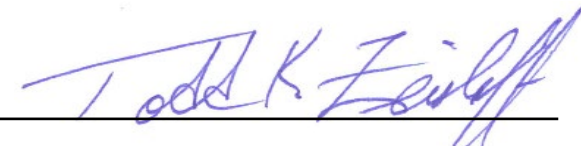
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*Delaware Industrial Park • 6 Garfield Way
Newark, DE 19713-5817
(302) 737-3376 • Fax (302) 737-5764*

Course Date: **February 1, 2024**

Date of Expiration: **February 1, 2025**

Certification Number : **EHSBIR 240201-00004**



Todd K. Zeisloft, Instructor



Neeraj K. Batta, President

EHS TRAINING INSTITUTE, INC.

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Certificate of Completion

AHERA Building Inspector

(Refresher)

Awarded To:

Steve Woronicak

SS#:XXX-XX-8821

Who has completed this 4-hour course and examination,
EPA Approved under TSCA Title II
AHERA / ASHARA Rule
40 CFR Part 763.

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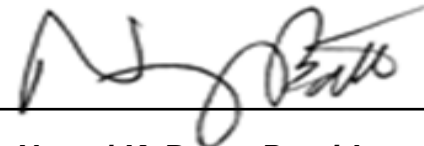
Course Date: **September 21, 2023**

Date of Expiration: **September 21, 2024**

Certification Number : **EHSBIR 230921-00013**



Todd K. Zeisloft, Instructor



Neeraj K. Batta, President

Asbestos Investigator
Certified by AMS



Steve Woronicak

Certificate #: AIC22-000026
Issue Date: 08/09/2022
Expiration: 03/31/2023



City of Philadelphia
Dept. of Public Health
Air Management
Services

ASBESTOS LABORATORY LICENSE
CITY OF PHILADELPHIA
Department of Public Health
Air Management Services

Batta Laboratories, Inc
6 Garfield Way
Newark, DE 19713-5817

Certification #: ALL-112
Issue Date: 04/11/2023
Expiration Date: 04/30/2024

DISPLAY PROMINENTLY



APPENDIX C

CITY OF PHILADELPHIA ASBESTOS INSPECTION REPORT



City of Philadelphia - Department of Public Health
Air Management Services, 2nd Fl. Asbestos Control Unit
321 University Ave. Philadelphia, PA 19104

Office Use Only

Date Received L&I:

Date Received AMS:

Date Inspected

Inspector No.

Asbestos Inspection Report

| | | | |
|---|-------------------|---|--|
| 1. Name of Building / Property: | Address | | |
| 2. Name of Building / Property Owner: | Address | Phone No. | |
| 3. Name of Philadelphia Certified Investigator: | Certification No. | Contact Information / Email / Phone No. | |
| L&I Commercial Activity No. (Former Business Privilege License No.) | | Business Tax ID No. | |

| | | |
|--|-------------|-----------|
| 4. Name of Philadelphia Licensed Laboratory: | License No. | Phone No. |
|--|-------------|-----------|

5. Scope of Work: (Insert or attach a complete description of the portion of the subject property inspected and the anticipated work that will result in the disturbance of the identified Asbestos Containing Materials (ACMs) (e.g. demolition, asbestos abatement, and / or renovation activities.)

6. ☐ Property has been declared to be in imminent danger (ID) of failure or collapse by the City of Philadelphia Department of Licenses & Inspections. Attached is a copy of the L&I Notice of Violation declaring the property I.D. ****Note: INVESTIGATOR MUST BE ON SITE DURING DEMOLITION!**

7. (ACMs) identified? ☐ Yes (List Below) ☐ No (explain)

8. Suspected ACM's sampled? ☐ Yes (attached are copies of the laboratory chain of custody and bulk sample results.) ☐ No (Why?)

9. List all identified ACM's located in the planned renovation/demolition areas. Damaged ACM must be listed and then repaired or removed prior to renovation. You (Investigator) must label all ACM that may be left in the work area. (Attached are add'tl sheets)

| Location | Description | Type (Code 1) | Amount | | Condition (Code 2) | Action (Code 3) |
|----------|-------------|------------------|--------|--------|-----------------------|--------------------|
| | | | Square | Linear | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Code 1

FRI - Friable
NF1 - Non-Friable, Cat. 1
NF2 - Non-Friable, Cat. 2

Code 2

DD - Deteriorated or
Delaminated
ND - Non-Damaged

Code 3

REM - Removal necessary prior to Demo/Reno
NRN - No removal necessary, label ACM
REP - Repair & Label ACM, removal not necessary

10. I hereby certify that the foregoing statements are true and the information contained in this report is true. This certification is made subject to the penalties set forth in 18 PA. C.S. S4904 relating to unsworn falsification to authorities. Furthermore I certify that the inspection, sampling, and labeling requirements of section X of the Asbestos Control Regulation (ACR) have been met. The building owner has been notified of the ACR requirements and given a copy of this report. If the inspection has revealed ACM which will be disturbed by the proposed work or if it has revealed ACM in bad condition, the building owner has been notified to remove or repair the ACM in accordance with the ACR prior to renovation or demolition activity.

| | | | |
|---|-------|------------------------------|-------|
| 11. Signature of Certified Asbestos Investigator: | Date: | Signature of Building Owner: | Date: |
|---|-------|------------------------------|-------|

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Web: <http://www.battaenv.com> E-mail: battaenv@battaenv.com



EPA Lab ID #DE004



NVLAP
Lab Code: 101032-D

Dept. Code: PLM

Rev. #: 0
Batch#: N/A
COC#: N/A

CERTIFICATE OF PLM ANALYSIS

Page 1 of 8

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 04/22/24

Sampling Data

BLI Project #: L363524
Project Name: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue

Date Sampled: 04/17/24

Sampled By: S.WORONIC

Date Analyzed: 04/19/24

| Sample ID | | Client-supplied Data | | | Analytical Data | | Reported Results | |
|-------------|----------------|----------------------|---------------|----------|-------------------|--------|-------------------------------|------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481663 | 01A | 1st Floor | Floor Tile | No | Firm | Gray | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481664 | 01B | 2nd Floor | Floor Tile | No | Firm | Gray | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481665 | 02A | 1st Floor | Mastic | No | Soft | Yellow | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481666 | 02B | 2nd Floor | Mastic | No | Soft | Yellow | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481667 | 03A | 1st Floor | Floor Tile | No | Firm | Blue | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

REVIEWED BY:

QA/QC Officer/Signatory

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*The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

*Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

*WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.

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EPA Lab ID #DE004



NVLAP

Lab Code: 101032-D

Dept. Code: PLM

Rev. #: 0

Batch#: N/A

COC#: N/A

CERTIFICATE OF PLM ANALYSIS

Page 2 of 8

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 04/22/24

Sampling Data

BLI Project #: L363524

Project Name: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue

Date Sampled: 04/17/24

Sampled By: S.WORONIC

Date Analyzed: 04/19/24

| Sample ID | | Client-supplied Data | | | Analytical Data | | Reported Results | |
|-------------|----------------|----------------------|---------------|----------|---------------------|--------|-------------------------------|------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481668 | 03B | 2nd Floor | Floor Tile | No | Firm Homogeneous | Blue | 100% Non-fibrous Material | No Asbestos Found |
| 1481669 | 04A | 1st Floor | Mastic | No | Soft Homogeneous | Yellow | 100% Non-fibrous Material | No Asbestos Found |
| 1481670 | 04B | 2nd Floor | Mastic | No | Soft Homogeneous | Yellow | 100% Non-fibrous Material | No Asbestos Found |
| 1481671 | 05A | 1st Floor | Baseboard | No | Firm Homogeneous | Black | 100% Non-fibrous Material | No Asbestos Found |
| 1481672 | 05B | 1st Floor | Baseboard | No | Firm Homogeneous | Black | 100% Non-fibrous Material | No Asbestos Found |

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ANALYST: JJF

REVIEWED BY:

QA/QC Officer/Signatory

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EPA Lab ID #DE004



NVLAP

Lab Code: 101032-D

Dept. Code: PLM

Rev. #: 0
Batch#: N/A
COC#: N/A

CERTIFICATE OF PLM ANALYSIS

Page 3 of 8

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 04/22/24

Sampling Data

BLI Project #: L363524
Project Name: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue

Date Sampled: 04/17/24

Sampled By: S.WORONIC

Date Analyzed: 04/19/24

| Sample ID | | Client-supplied Data | | | Analytical Data | | Reported Results | |
|-------------|----------------|----------------------|---------------|----------|---------------------|--------|-------------------------------|--------------------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481673 | 06A | 1st Floor | Mastic | No | Soft Homogeneous | Yellow | 100% Non-fibrous Material | No Asbestos Found |
| 1481674 | 06B | 1st Floor | Mastic | No | Soft Homogeneous | Yellow | 100% Non-fibrous Material | No Asbestos Found |
| 1481675 | 07A | Stairs | Stair Tread | No | Firm Homogeneous | Tan | 100% Non-fibrous Material | No Asbestos Found |
| 1481676 | 07B | Stairs | Stair Tread | No | Firm Homogeneous | Tan | 100% Non-fibrous Material | No Asbestos Found |
| 1481677 | 08A | Stairs | Mastic | No | Soft Homogeneous | Brown | 98% Non-fibrous Material | 2% Chrysotile Total Asbestos = 2% |

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

REVIEWED BY:

QA/QC Officer/Signatory

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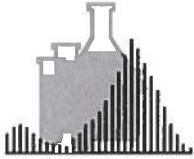
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EPA Lab ID #DE004



Lab Code: 101032-D

Dept. Code: PLM

Rev. #: 0

Batch#: N/A

COC#: N/A

CERTIFICATE OF PLM ANALYSIS

Page 4 of 8

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 04/22/24

Sampling Data

BLI Project #: L363524

Date Sampled: 04/17/24

Project Name: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue

Sampled By: S.WORONIC

Date Analyzed: 04/19/24

| Sample ID | | Client-supplied Data | | | Analytical Data | | Reported Results | |
|-------------|----------------|--|---------------|----------|-------------------|-------|-------------------------------|--|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481678 | 08B | ** Stairs | Mastic | n/a | | | | Sample Not Analyzed (positive stop rules) |
| 1481679 | 09A | 2nd Floor water heater rm | Transite | No | Firm | Gray | 85% Non- fibrous Material | 15% Chrysotile Total Asbestos = 15% |
| | | | | | Homogeneous | | | |
| 1481680 | 09B | ** 2nd Floor water heater rm | Transite | n/a | | | | Sample Not Analyzed (positive stop rules) |
| 1481681 | 10A | Boxing gym bldg-Hall outside office | Floor Tile | No | Firm | Gray | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481682 | 10B | Boxing gym bldg- Outside men's rm | Floor Tile | No | Firm | Gray | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

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ANALYST: JJF

REVIEWED BY:

QA/QC Officer/Signatory

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** This sample was not analyzed for reasons noted in the far right column. Batta Labs, LLC will not charge clients for samples not analyzed. Please contact Batta if charged in error.

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EPA Lab ID #DE004



NVLAP
Lab Code: 101032-D

Dept. Code: PLM

Rev. #: 0
Batch#: N/A
COC#: N/A

CERTIFICATE OF PLM ANALYSIS

Page 5 of 8

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 04/22/24

Sampling Data

BLI Project #: L363524
Project Name: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue

Date Sampled: 04/17/24
Sampled By: S.WORONIC
Date Analyzed: 04/19/24

| Sample ID | | Client-supplied Data | | | Analytical Data | | Reported Results | |
|-------------|----------------|--|---------------|----------|-------------------------|--------|-------------------------------|------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481683 | 11A | Boxing gym bldg-Hall outside office | Mastic | No | Soft Homogeneous | Yellow | 100% Non- fibrous Material | No Asbestos Found |
| 1481684 | 11B | Boxing gym bldg- Outside men's rm | Mastic | No | Soft Homogeneous | Yellow | 100% Non- fibrous Material | No Asbestos Found |
| 1481685 | 12A | Boxing gym bldg-Hall outside office | Mastic | No | Soft Homogeneous | Tan | 100% Non- fibrous Material | No Asbestos Found |
| 1481686 | 12B | Boxing gym bldg- Outside men's rm | Mastic | No | Soft Homogeneous | Tan | 100% Non- fibrous Material | No Asbestos Found |
| 1481687 | 13A | Boxing gym bldg-main area | Mastic | No | Soft Homogeneous | Tan | 100% Non- fibrous Material | No Asbestos Found |

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

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ANALYST: JJF

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EPA Lab ID #DE004



NVLAP[®]

Lab Code: 101032-D

Dept. Code: PLM

Rev. #: 0
Batch#: N/A
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CERTIFICATE OF PLM ANALYSIS

Page 6 of 8

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 04/22/24

Sampling Data

BLI Project #: L363524
Project Name: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue

Date Sampled: 04/17/24

Sampled By: S.WORONIC

Date Analyzed: 04/19/24

| Sample ID | | Client-supplied Data | | | Analytical Data | | Reported Results | |
|-------------|----------------|-------------------------------------|---------------|----------|-------------------|---------|-------------------------------|------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481688 | 13B | Boxing gym bldg-main area | Mastic | No | Soft | Tan | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481689 | 14A | Boxing gym bldg-basement | Flue Packing | No | Firm | Various | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481690 | 14B | Boxing gym bldg-basement | Flue Packing | No | Firm | Various | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481691 | 15A | Boxing gym bldg-basketball entrance | Window Glaze | Yes | Firm | White | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481692 | 16A | Boxing gym bldg-basketball entrance | Window Glaze | Yes | Firm | Gray | 100% Non-fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

REVIEWED BY:

QA/QC Officer/Signatory

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*The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

*Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

*WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.

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NY ELAP LAB# 11993 for
PCM, PLM, TEM & Lead

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Delaware Industrial Park, 6 Garfield Way
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Web: <http://www.battaenv.com> E-mail: battaenv@battaenv.com



EPA Lab ID #DE004



NVLAP
Lab Code: 101032-D

Dept. Code: PLM

Rev. #: 0
Batch#: N/A
COC#: N/A

CERTIFICATE OF PLM ANALYSIS

Page 7 of 8

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 04/22/24

Sampling Data

BLI Project #: L363524
Project Name: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue

Date Sampled: 04/17/24

Sampled By: S.WORONIC

Date Analyzed: 04/19/24

| Sample ID | | Client-supplied Data | | | Analytical Data | | Reported Results | |
|-------------|----------------|------------------------------------|---------------|----------|-------------------|-------|-------------------------------|------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1482175 | 16A LAYER | Boxing gym bldg-Main boxing gym | Plaster skim | No | Firm | White | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481693 | 16B | Boxing gym bldg-Main boxing gym | Plaster base | No | Firm | Gray | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1482176 | 16B LAYER | Boxing gym bldg-Main boxing gym | Plaster skim | No | Firm | White | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481694 | 16C | Boxing gym bldg-Main boxing gym | Plaster base | No | Firm | Gray | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1482172 | 16C LAYER | Boxing gym bldg-Main boxing gym | Plaster skim | No | Firm | White | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

REVIEWED BY:

QA/QC Officer/Signatory

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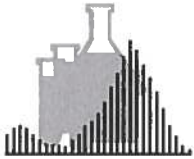
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EPA Lab ID #DE004



NVLAP
Lab Code: 101032-D

Dept. Code: PLM

Rev. #: 0
Batch#: N/A
COC#: N/A

CERTIFICATE OF PLM ANALYSIS

Page 8 of 8

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

Report Date: 04/22/24

Sampling Data

BLI Project #: L363524
Project Name: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue

Date Sampled: 04/17/24

Sampled By: S.WORONIC

Date Analyzed: 04/19/24

| Sample ID | | Client-supplied Data | | | Analytical Data | | Reported Results | |
|-------------|----------------|------------------------------------|---------------|----------|-------------------|-------|-------------------------------|------------------------|
| Lab Sample# | Client Sample# | Sample Description | Material Type | Friable? | Texture/ Gross | Color | Non-asbestiform Components | Asbestiform Components |
| 1481695 | 16D | Boxing gym bldg-Main boxing gym | Plaster base | No | Firm | Gray | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1482173 | 16D LAYER | Boxing gym bldg-Main boxing gym | Plaster skim | No | Firm | White | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1481696 | 16E | Boxing gym bldg-Main boxing gym | Plaster base | No | Firm | Gray | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |
| 1482174 | 16E LAYER | Boxing gym bldg-Main boxing gym | Plaster skim | No | Firm | White | 100% Non- fibrous Material | No Asbestos Found |
| | | | | | Homogeneous | | | |

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

REVIEWED BY:

QA/QC Officer/Signatory

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BATTA ENVIRONMENTAL ASSOCIATES, INC.
Delaware Industrial Park
6 Garfield Way
Newark, DE 19713-5817

BU#: L363524

NOTE TO ANALYST - Positive Stop Unless Otherwise Noted on this COC

BULK SAMPLE DATA SHEET

PLM ☒ EPA ☐ POINT COUNT ☐ NOB ☐ EPA

BEA# 1093723V

Date/Time Results Required: 4/22/24 5:12pm HRS
Date/Time Cert of Analysis Req: 4/22/24 5:40pm HRS
Results to: Inspector Manager: PG SW, NB
Client: Phone: Fax:

Project Name: Happy Hollow Rec Center

Site Inspected / Address: 4800 Wynn Avenue, Phila PA

Inspector(s): Steve Wronowicz

Date Inspected 4/17/24

Page 1 of 2

| FIELD | SAMPLE NUMBER LAB# | MATERIAL SAMPLED Note 2 | AHRA CLASS | Note 1 G/Dam / S/Dam | CONDITION G/Dam / S/Dam | ALL LOCATIONS, Name & Circle Sample Locations (E.1, E.2, O.1, 1.1, 1.3, 2.2, ...) | MATERIAL QUANTITY | Note 3 COMPOSITION | SAMPLE COLOR | RESULTS | |
|-------|-----------------------|----------------------------|---------------|-------------------------|----------------------------|--|----------------------|-----------------------|-----------------|---------|------|
| | | | | | | | | | | % | TYPE |
| 1 | 6603 | 12x12 Porcelain | M | G | F | A-1st Floor B-2nd Floor | 800 SF | Homo | gray | NAD | - |
| 2 | 6604 | Mastic alw 12x12 grey | M | G | F | A-1st Floor B-2nd Floor | 800 SF | | — | — | — |
| 3 | 6605 | 12x12 Porcelain (bottom) | M | G | F | | 800 SF | | blue | — | — |
| 4 | 6606 | Mastic alw blue 12x12 | M | G | F | | 800 SF | | — | — | — |
| 5 | 6607 | Baseboard | M | G | F | A+B-1st Floor | 350 LF | | black | — | — |
| 6 | 6608 | Baseboard mastic | M | D | F | A+B-1st Floor | 350 LF | | yellow | — | — |
| 7 | 6609 | Stair Tread material | M | G | F | ATB - Stairs | 45 SF | | tan | NAD | - |
| 8 | 6610 | Stair Tread mastic | M | G | F | ATB - Stairs | 45 SF | | yellow | 2 | Chry |
| 9 | 6611 | Transite Panel | M | G | F | A+B-2nd fl water heater room | 30 SF | | gray | 15 | Chry |
| 10 | 6612 | Boxing Gym Building | M | G | F | A-Hall outside office B-outside mens room | | | gray | NAD | - |
| 11 | 6613 | 12x12 Floor tile | M | G | F | | | Homo | gray | — | — |
| 12 | 6614 | Mastic alw gray 12x12 | M | G | F | | | | yellow | — | — |
| 13 | 6615 | Baseboard mastic | M | G | F | | | | yellow | — | — |
| 14 | 6616 | Rubber floor mastic | M | G | F | A+B-man area | | | yellow | — | — |
| 15 | 6617 | Fluor packing | T | G | F | Basement | | | multi | NAD | - |

Notes 1 AHRA Classification: T=Thermal Insulation, S=Surfacing, M=Miscellaneous 2 Material Sampled: Pipe Covering, Boiler Breaching, Ceiling, Tile, Floor Tiles, Sheet Piling, etc. Sample Composition: Homogeneous, Mixed, Layered

Reinforced By: Date: / / Time: Received By: Date: / / Time:
Delivered By: Date: / / Time: Received By: Date: / / Time:
Delivered By: Date: / / Time: Received By: Date: / / Time:
Delivered By: Date: / / Time: Received By: Date: / / Time:



BL# 750507

Date/Time Results Required: 4/22/24 5:00pm HRS
Date/Time Cert of Analysis Req: 4/22/24 5:45pm HRS
Results to: Inspector Manager: TC SWH

Project Name: Happy Follow Rec
 Site Inspected / Address: 4800 Wayne Ave Philadelphia
 Inspector(s): Steve Wilkonicar
 B.I. #: 05417
 BEA# 1093723K
 Results to: ☒ Inspector ☐ Manager: AL SW, NB
☐ Client: ☐ Phone: ☐ Fax: ☐ E-mail: ☐
 Date Inspected 4 / 17 / 20

[illegible]

| Notes | 1 AHERA Classification, 1 Thermal Insulation, S-Sarison, M-Miscellaneous | 2 Material Sampled Pipe Covering, Boiler Breaching, Ceiling Tile, Floor Tiles, Sheet Flooring, etc | 3 Sample Composition: Homogeneous, Mixed, Layered |
|-------|--|--|---|
| | Relinquished By: _____ | Date: ____/____/____ Time: ____:____:____ | Received By: _____ |
| | Delivered By: _____ | Date: ____/____/____ Time: ____:____:____ | Received By: _____ |
| | Delivered By: _____ | Date: ____/____/____ Time: ____:____:____ | Received By: _____ |
| | Delivered By: _____ | Date: ____/____/____ Time: ____:____:____ | Received By: _____ |

☐ Olympus 221810 (Scope #3)
 ☐ Nikon 222212 (Scope #5)
 Page 2 of 9
☐ Olympus 240335 (Scope #4)
 ☐ Nikon 102293 (Scope #6)
 ☐ Olympus 202705 (Scope #7)

☐ Olympus 202705 (Scope #7)

| | |
|--------------------------|---------------------------|
| <input type="checkbox"/> | Olympus 202705 (Scope #7) |
|--------------------------|---------------------------|

1093723K-HAPPY HOLLOW REC. CENTER

| Lab Sample # | Sample Descriptions | | Asbestos #1 | | Asbestos #2 | | Asbestos #3 | | % Asbestos Type (12) | | % Fibrous Non-Asbestos Type (13) | | | | Analyst's Notes | |
|----------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------|---|----------------------------------|---|---------------------------------------|--|-----------------------|--|
| | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | | | |
| 1481667 | Sample Type ¹ | Visual Gross ² | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 1 2 3 4 5 6 7 8 | | PC | | | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | | | |
| | | | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 1 2 3 4 5 6 7 8 | | PC | | | | * scan | |
| | | | | | | | | | / | | VAE | | VAE | | | |
| | | | | | | | | | VAE | | VAE | | | | | |
| 03A | F or N | Texture ⁵ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 1 2 3 4 5 6 7 8 | | PC | | | | Asbestos Stereo VAE % | |
| | | | | | | | | | / | | VAE | | VAE | | | |
| | | | | | | | | | VAE | | VAE | | | | | |

| | | |
|--------------------------------|------------|---|
| Nonfibrous Types ¹⁵ | Percentage | |
| 6 | 100 | 0 |

| | | |
|--------------------------------|------------|---|
| Nonfibrous Types ¹⁵ | Percentage | |
| | 100 | 0 |

| | | |
|--------------------------------|------------|---|
| Nonfibrous Types ¹⁵ | Percentage | |
| | 100 | 0 |

| | |
|--------------------------------|------------|
| Nonfibrous Types ¹⁵ | Percentage |
| 1. 6 | 100% |

Analyst:

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAPs definition.

7. State of New Jersey DOLAWD Method (38 N.J.R. 2526)
8. CARB 435:
9. Other (specify):

BATTA PLM Bench Sheet

PLM Scope ID #: ☐ Nikon 202306 (Scope #1) ☐ Leica DM750P (Scope #2) ☐ Olympus 221810 (Scope #3) ☐ Nikon 222212 (Scope #5) ☐ Olympus 240335 (Scope #4) ☐ Nikon 102293 (Scope #6) ☐ Olympus 202705 (Scope #7)

Page 3 of 9

BLI Project # **L363524**

Name of Client/Project: **1093723K-HAPPY HOLLOW REC. CENTE**

| Sample Type ¹ | Visual Gross ² | Sample Color ³ | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|--|--|---|-----------------------------|---|--|--|--------------------------------------|---|--|---|--|---|
| Temperature (°C): 1 insulation 2 sheetrock 3 roofing material 4 soil 5 joint compound | 1 Homogenous 2 Heterogeneous 3 Layered | 1 black 7 brown 13 orange 2 tan 8 blue 14 various 3 gold 9 white 15 other 4 yellow 10 red 5 silver 11 green 6 gray 12 pink | Friable or Nonfriable | 1 cementic 2 granular 3 fibrous 4 firm 5 soft 6 paper-like | 1 wavy 2 straight 3 splayed ends 4 fiber bundles 5 single fibers 6 blocky | 1 clear 2 tan 3 blue 4 brown 5 other | 1 no 2 yes if yes, give color | 1- to 3-hi 2 medium Extinction ¹⁰ 1 parallel 2 oblique Elongation ¹¹ + or - | 1 chrysotile 2 amosite 3 crocidolite 4 anthophyllite 5 tremolite 6 actinolite | 1 cellulose 2 fiberglass 3 mineral wool 4 synthetic fiber 5 wollastonite other | 1 undulose ext. 2 isotropic 3 shot 4 high birefringence 5 mult elon (flips) other | 1 malix 2 binder 3 CaSO ₄ 4 CaCO ₃ 5 Vermiculite 6 other |

| Sample Descriptions | | | Asbestos #1 | | Asbestos #2 | | Asbestos #3 | | % Asbestos Type (12) | | % Fibrous Non-Asbestos Type (13) | | | | Analyst's |
|--|---------------------------------------|--------------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------|---|----------------------------------|---|---------------------------------------|--|-----------------------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | | Notes |
| 1481671 | Sample Type ¹ Baseboard | Visual Gross ² 1 | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | PC | | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | | |
| | | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | | | |
| | | | | | | | | | / | | VAE | | | | * scan |
| 05A | F or N | Texture ⁵ 4 | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | | Asbestos Stereo VAE % |
| | | | | | | | | | / | | | | | | |
| | | | | | | | | | VAE | | VAE | | | | |
| Asbestos-Containing <input type="checkbox"/> | | | Non-Asbestos-Containing <input type="checkbox"/> | | | Analytical Method: | | | Mandatory | | Nonfibrous Types ¹⁵ | | Percentage | | |

| Sample Descriptions | | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | | Analyst's | | |
|--|--|---------------------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------|--|--------------------------------|------------------|--|------------|---------------------------------------|-----------------------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | | % | Method of Quant. | | % | Optical Characteristics ¹⁴ | Notes |
| 1481672 | Sample Type ¹ <i>Baseboard</i> | Visual Gross ² <i>1</i> | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | | PC | | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | | VAE | | | | |
| | | | | | | | | | 12345678 | | | PC | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | | PC | | | | |
| | | | | | | | | | VAE | | | VAE | | | | |
| | | | | | | | | | 12345678 | | | PC | | | | |
| 05B | F or N | Texture ⁵ <i>4</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | | PC | | | | Asbestos Stereo VAE % |
| | | | | | | | | | VAE | | | VAE | | | | |
| | | | | | | | | | VAE | | | VAE | | | | |
| Asbestos-Containing <input type="checkbox"/> | | | Non-Asbestos-Containing <input type="checkbox"/> | | | Analytical Method: | | | Specify if different | | Nonfibrous Types ¹⁵ | | | Percentage | | |

| Lab Sample # | | Sample Descriptions | | | Type #1 | Type #2 | Type #3 | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | | Analyst's Notes | |
|--|--------------------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------------|----------|-----------------------------|-----|------------------|-----------------|---|
| | | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | | % |
| 1481673 | Sample Type ¹ <i>9</i> | Visual Gross ² <i>1</i> | Morph ⁶ | nD | Morph ⁶ | nD | Morph ⁶ | nD | 12345678 | | PC | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | |
| | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ <i>4</i> | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | | |
| | | | | | | | | | VAE | | VAE | | | |
| | | | | | | | | | | | | | | |
| 06A | F or N | Texture ⁵ <i>5</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | |
| | | | | | | | | | VAE | | VAE | | | |
| | | | | | | | | | | | | | | |
| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: | | Specify if different | | Nonfibrous Types ¹⁵ | | Percentage | | | | |

| Asbestos-Containing <input type="checkbox"/> Non-Asbestos-Containing <input type="checkbox"/> Analytical Method: _____ | | | | | | | | | | | | | | | |
|--|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|---|-----------------------------|------------|---------------------------------------|-----------------------|-----------------|
| Sample Descriptions | | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | | | Analyst's Notes |
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | | |
| 1481674 | Sample Type ¹ | Visual Gross ² | Morph ⁶ | nD \parallel | Morph ⁶ | nD \parallel | Morph ⁶ | nD \parallel | 1 2 3 4 5 6 7 8 | | PC | | | | |
| | | | Fiber Color ⁷ | nD \perp | Fiber Color ⁷ | nD \perp | Fiber Color ⁷ | nD \perp | VAE | | VAE | | | | |
| | | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 1 2 3 4 5 6 7 8 | | PC | | | * scan | |
| | | | | | | | | | | | VAE | | VAE | | |
| | | | | | | | | | | | | | | | |
| 06B | F or N | Texture ⁵ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 1 2 3 4 5 6 7 8 | | PC | | | Asbestos Stereo VAE % | |
| | | | | | | | | | | | VAE | | VAE | | |
| | | | | | | | | | | | | | | | |
| Nonfibrous Types ¹⁵ | | | | | | | | | | | | Percentage | | | |

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)

Date of Analysis: *4/14/24*

Analyst: *TF*

Analytical Methods:

* If using scan option for ELAP, circle scan in notes block.

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAPs definition.

- EPA/600/R-93/116 Without Gravimetry
- EPA/600/R-93/116 With Gravimetry
- EPA/600/R-93/116: 400 Point Count

- EPA/600/R-93/116: 1000 Point Count
- PLM NOB Chatfield Method
- NYDOH ELAP 198.1 (Stratified Point Count)

- State of New Jersey DOLAOWD Method (38 N.J.R. 2526)
- CARB 435
- Other (specify):

BATTA PLM Bench Sheet

PLM Scope ID#: ☐ Nikon 202306 (Scope #1)

☒ Leica DM750P (Scope #2)☐ Olympus 221810 (Scope #3)☐ Nikon 22212 (Scope #5)☐ Olympus 240335 (Scope #4)☐ Nikon 102293 (Scope #6)

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Olympus 202705 (Scope #7)

BLI Project # L363524

Name of Client/Project:

1093723K-HAPPY HOLLOW REC. CENTER

| Sample Type ¹ | | Visual Gross ² | Sample Color ³ | | | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ 1-to 3-Hi 2 medium 10 Extinction | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|---------------------------------|-----------------|-----------------------------|---------------------------|--|--|-------------------------|-----------------------------|-------------------------|---|--------------------------|---|------------------------------|----------------------------------|--|---------------------------------|
| Temperature (°C): _____ | | 1 black 7 brown 13 orange | | | | Friable | 1 cementic | 1 wavy | | | 1 chrysotile | 1 cellulose | 1 undulose ext. | | 1 matrix |
| 1 insulation 6 ceiling tile | 1 Homogeneous | 2 tan 8 blue 14 various | | | | or | 2 granular | 2 straight | 1 clear | 1 no 2 yes | 2 amosite | 2 fiberglass | 2 isotropic | | 2 binder |
| 2 sheetrock 7 linoleum | | 3 gold 9 white 15 other____ | | | | | 3 fibrous | 3 splayed ends | 2 tan | | 3 crocidolite | 3 mineral wool | 3 shot | | 3 CaSO ₄ |
| 3 roofing material 8 floor tile | 2 Heterogeneous | 4 yellow 10 red | | | | Nonfriable | 4 firm | 4 fiber bundles | 3 blue | | 2 oblique | 4 anthophyllite | 4 synthetic fiber | 4 high birefringence | 4 CaCO ₃ |
| 4 soil 9 mastic/adhesive | | 5 silver 11 green | | | | | 5 soft | 5 single fibers | 4 brown | if yes, give color | Elongation ¹¹ or + or - | 5 tremolite | 5 wollastonite | 5 mult. elon. (flips) | 5 Vermiculite |
| 5 joint compound 10 plaster | 3 Layered | 6 gray 12 pink | | | | 6 paper-like | 6 blocky | 5 other____ | 5 other____ | | 6 actinolite | 6 other____ | 6 other____ | | 6 other____ |

| Sample Descriptions | | | Asbestos #1 | | Asbestos #2 | | Asbestos #3 | | % Asbestos Type (12) | | | % Fibrous Non-Asbestos Type (13) | | | Analyst's | | |
|--|---|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------------|----------------------|------------|---|----------------------------------|--|-----|---------------------------------------|-----------------------|--|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | | % | Method of Quant. | | % | Optical Characteristics ¹⁴ | Notes | |
| 1481675 | Sample Type ¹ <i>S1418 Text</i> | Visual Gross ² <i>1</i> | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 1 2 3 4 5 6 7 8 | | | PC | | | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | | | | VAE | | | |
| | | | | | | | | | 1 2 3 4 5 6 7 8 | | | | | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ <i>2</i> | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | / | | | PC | | | | * scan | |
| | | | | | | | | | VAE | | | | | VAE | | | |
| | | | | | | | | | 1 2 3 4 5 6 7 8 | | | | | | | | |
| 07A | F or N | Texture ⁵ <i>4</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | / | | | PC | | | | Asbestos Stereo VAE % | |
| | | | | | | | | | VAE | | | | | VAE | | | |
| | | | | | | | | | 1 2 3 4 5 6 7 8 | | | | | | | | |
| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input checked="" type="checkbox"/> | | Analytical Method: | | Mandatory | | Nonfibrous Types ¹⁵ | | Percentage | | | | | | | |

Asbestos-Containing ☐

Non-Asbestos-Containing

Analytical Method:

Mandalo

| Sample Descriptions | | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | | | Analyst's |
|--|--|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|--------------------------------|-----------------------------|------------|---------------------------------------|--------|-----------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | Notes | |
| 1481676 | Sample Type ¹ <i>Hair</i> <i>VCLC</i> | Visual Gross ² <i>1</i> | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | PC | | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | | |
| | | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ <i>2</i> | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | | | |
| | | | | | | | | | VAE | | VAE | | | | |
| | | | | | | | | | | | | | | | |
| 07B | F or N | Texture ⁵ <i>4</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | * scan | |
| | | | | | | | | | VAE | | VAE | | | | |
| | | | | | | | | | | | | | | | |
| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: | | Specify if different | | | | Nonfibrous Types ¹⁵ | | Percentage | | | |

Asbestos-Containing ☐

Non-Asbestos-Containing

Analytical Method:

Specify if different

| Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | | | Analyst's |
|---|-------------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|-------------------------------|------------------|------------|---------------------------------------|-----------------------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | Notes |
| 1481677 | Sample Type ¹ 9 | Visual Gross ² 1 | Morph ⁶ | ND ⁷ | Morph ⁶ | ND II | Morph ⁶ | ND II | 12345678 | | PC | | | |
| | | | Fiber Color ⁷ | ND ⁷ | Fiber Color ⁷ | ND ⁷ | Fiber Color ⁷ | ND ⁷ | VAE | 2 | | VAE | | |
| | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ 7 | Sample Color ³ 1 | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | | * scan |
| | | | | | | | | | VAE | | | VAE | | |
| | | | | | | | | | | | | | | |
| 08A | F or N | Texture ⁵ 5 | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | Asbestos Stereo VAE % |
| | | | | | | | | | / | | | VAE | | |
| | | | | | | | | | | | | | | |
| Asbestos-Containing <input checked="" type="checkbox"/> | | Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: | | Specify if different | | | | Nonfibrous Type ¹⁵ | | Percentage | | |

Asbestos-Containing

Non-Asbestos-Containing ☐

Analytical Method:

Specify if different

| Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | Analyst's Notes | |
|--|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|--------------------------------|------------------|-----------------|-----------------------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | | % |
| 1481678 | Sample Type ¹ | Visual Gross ² | Morph ⁶ | nD | Morph ⁶ | nD | Morph ⁶ | nD | 1 2 3 4 5 6 7 8 | | PC | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | / | | VAE | | |
| | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 1 2 3 4 5 6 7 8 | | PC | | |
| | | | | | | | | | / | | VAE | | |
| | | | | | | | | | | | | | |
| 08B | F or N | Texture ⁵ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 1 2 3 4 5 6 7 8 | | PC | | Asbestos Stereo VAE % |
| | | | | | | | | | / | | VAE | | |
| | | | | | | | | | | | | | |
| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: | | Spectrofluorimetric | | | | Nonfibrous Types ¹⁵ | | Percentage | |

Asbestos-Containing ☐Non-Asbestos Containing ☐

Analytical Method:

Specify if different

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)

Date of Analysis:

Analyst:

Analytical Methods:

* If using scan option for ELAP, circle scan in notes block.

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAPs definition.

1. EPA/600/R-93/116 Without Gravimetry
2. EPA/600/R-93/116 With Gravimetry
3. EPA/600/R-93/116: 400 Point Count

4. EPA/600/R-93/116: 1000 Point Count
5. PLM NOB Chatfield Method
6. NYDOH ELAP 198.1 (Stratified Point Count)

7. State of New Jersey DOLAWD Method (38 N.J.R. 2526)
8. CARB 435:
9. Other (specify):

BATTA PLM Bench Sheet

PLM Scope ID#: ☐ Nikon 202306 (Scope #1) ☒ Leica DM750P (Scope #2) ☐ Olympus 221810 (Scope #3) ☐ Nikon 222212 (Scope #5) ☐ Olympus 240335 (Scope #4) ☐ Nikon 102293 (Scope #6) ☐ Olympus 202705 (Scope #7)

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BLI Project # L363524

Name of Client/Project: 1093723K-HAPPY HOLLOW REC. CENTE

| Sample Type ¹ | Visual Gross ² | Sample Color ³ | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|--|--|--|-----------------------------|---|--|--|---|---|--|---|--|--|
| Temperature (°C): 1 insulation 2 sheetrock 3 roofing material 4 soil 5 joint compound | 1 Homogenous 2 Heterogeneous 3 Layered | 1 black 2 tan 3 gold 4 yellow 5 silver 6 gray 7 brown 8 blue 9 white 10 red 11 green 12 pink 13 orange 14 various 15 other | Friable or Nonfriable | 1 cementic 2 granular 3 fibrous 4 firm 5 soft 6 paper-like | 1 wavy 2 straight 3 splayed ends 4 fiber bundles 5 single fibers 6 blocky | 1 clear 2 tan 3 blue 4 brown 5 other | 1 no 2 yes if yes, give color | 1-10 3-11 2 medium Extinction ¹⁰ 1 parallel 2 oblique Elongation ¹¹ + or - | 1 chrysotile 2 amosite 3 crocidolite 4 anthophyllite 5 tremolite 6 actinolite | 1 cellulose 2 fiberglass 3 mineral wool 4 synthetic fiber 5 wollastonite other | 1 undulose ext. 2 isotropic 3 shot 4 high birefringence 5 mult. elon. (flips) other | 1 matrix 2 binder 3 CaSO ₄ 4 CaCO ₃ 5 Vermiculite 6 other |

| Lab Sample # | Sample Descriptions | Asbestos #1 | Asbestos #2 | Asbestos #3 | % Asbestos Type (12) | % Fibrous Non-Asbestos Type (13) | Analyst's Notes |
|---|--|---|---|---|--|----------------------------------|-----------------------|
| 1481679 | Client-Supplied Data Macroscopic Sample Type ¹ Visual Gross ² Fiber Color ⁷ | Optical Properties Morph ⁶ N ^o D II Fiber Color ⁷ | Optical Properties Morph ⁶ N ^o D II Fiber Color ⁷ | Optical Properties Morph ⁶ N ^o D II Fiber Color ⁷ | Method of Quant. 1 2 3 4 5 6 7 8 VAE | Method of Quant. PC VAE | |
| Field Sample # | Friability ⁴ Sample Color ³ Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 1 2 3 4 5 6 7 8 VAE | PC VAE | * scan |
| 09A | F or N Texture ⁵ Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 1 2 3 4 5 6 7 8 VAE | PC VAE | Asbestos Stereo VAE % |
| Asbestos-Containing <input type="checkbox"/> Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <u>Macroscopic</u> | | Nonfibrous Types ¹⁵ | | Percentage | |

| Lab Sample # | Sample Descriptions | Type #1 | Type #2 | Type #3 | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|---|--|---|---|---|--|-------------------------------|-----------------------|
| 1481680 | Client-Supplied Data Macroscopic Sample Type ¹ Visual Gross ² Fiber Color ⁷ | Optical Properties Morph ⁶ N ^o D II Fiber Color ⁷ | Optical Properties Morph ⁶ N ^o D II Fiber Color ⁷ | Optical Properties Morph ⁶ N ^o D II Fiber Color ⁷ | Method of Quant. 1 2 3 4 5 6 7 8 VAE | Method of Quant. PC VAE | |
| Field Sample # | Friability ⁴ Sample Color ³ Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 1 2 3 4 5 6 7 8 VAE | PC VAE | * scan |
| 09B | F or N Texture ⁵ Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 1 2 3 4 5 6 7 8 VAE | PC VAE | Asbestos Stereo VAE % |
| Asbestos-Containing <input type="checkbox"/> Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <u>Specify if different</u> | | Nonfibrous Types ¹⁵ | | Percentage | |

| Lab Sample # | Sample Descriptions | Type #1 | Type #2 | Type #3 | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|---|--|---|---|---|--|-------------------------------|-----------------------|
| 1481681 | Client-Supplied Data Macroscopic Sample Type ¹ Visual Gross ² Fiber Color ⁷ | Optical Properties Morph ⁶ N ^o D II Fiber Color ⁷ | Optical Properties Morph ⁶ N ^o D II Fiber Color ⁷ | Optical Properties Morph ⁶ N ^o D II Fiber Color ⁷ | Method of Quant. 1 2 3 4 5 6 7 8 VAE | Method of Quant. PC VAE | |
| Field Sample # | Friability ⁴ Sample Color ³ Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 1 2 3 4 5 6 7 8 VAE | PC VAE | * scan |
| 10A | F or N Texture ⁵ Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 1 2 3 4 5 6 7 8 VAE | PC VAE | Asbestos Stereo VAE % |
| Asbestos-Containing <input type="checkbox"/> Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <u>Specify if different</u> | | Nonfibrous Types ¹⁵ | | Percentage | |

| Lab Sample # | Sample Descriptions | Type #1 | Type #2 | Type #3 | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|---|--|---|---|---|--|-------------------------------|-----------------------|
| 1481682 | Client-Supplied Data Macroscopic Sample Type ¹ Visual Gross ² Fiber Color ⁷ | Optical Properties Morph ⁶ N ^o D II Fiber Color ⁷ | Optical Properties Morph ⁶ N ^o D II Fiber Color ⁷ | Optical Properties Morph ⁶ N ^o D II Fiber Color ⁷ | Method of Quant. 1 2 3 4 5 6 7 8 VAE | Method of Quant. PC VAE | |
| Field Sample # | Friability ⁴ Sample Color ³ Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 1 2 3 4 5 6 7 8 VAE | PC VAE | * scan |
| 10B | F or N Texture ⁵ Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 1 2 3 4 5 6 7 8 VAE | PC VAE | Asbestos Stereo VAE % |
| Asbestos-Containing <input type="checkbox"/> Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <u>Specify if different</u> | | Nonfibrous Types ¹⁵ | | Percentage | |

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)

Date of Analysis: 4/19/24

Analyst: TT

Analytical Methods:

* If using scan option for ELAP, circle scan in notes block.

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAP's definition.

1. EPA/600/R-93/116 Without Gravimetry
2. EPA/600/R-93/116 With Gravimetry
3. EPA/600/R-93/116: 400 Point Count

4. EPA/600/R-93/116: 1000 Point Count
5. PLM NOB Chatfield Method
6. NYDOH ELAP 198.1 (Stratified Point Count)

7. State of New Jersey DOLA Method (38 N.J.R. 2526)
8. CARB 435:
9. Other (specify):

BATTA PLM Bench Sheet

PLM Scope ID #: ☐ Nikon 202306 (Scope #1)

☐ Leica DM750P (Scope #2)

☐ Olympus 221810 (Scope #3)

☐ Nikon 222212 (Scope #5)

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☐ Olympus 240335 (Scope #4)

☐ Nikon 102293 (Scope #6)

☐ Olympus 202705 (Scope #7)

BLI Project # **L363524**

Name of Client/Project: **1093723K-HAPPY HOLLOW REC. CENTE**

| Sample Type ¹ | | Visual Gross ² | Sample Color ³ | | | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ 1-lo 3-hi | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ | |
|--------------------------|-------------------|---------------------------|---------------------------|----------|--------------|-----------------------------|-----------------------------|-------------------------|---|--------------------------|---|------------------------------|----------------------------------|--|---------------------------------|---------------------|
| Temperature (°C): _____ | | | 1 black | 7 brown | 13 orange | | 1 cementic. | 1 wavy | | | 2 medium | 1 chrysotile | 1 cellulose | 1 undulose ext. | 1 matrix | |
| 1 insulation | 6 ceiling tile | 1 Homogenous | 2 tan | 8 blue | 14 various | Friable or Nonfriable | 2 granular | 2 straight | 1 clear | 1 no | 2 yes | Extinction ¹⁰ | 2 amosite | 2 fiberglass | 2 isotropic | 2 binder |
| 2 sheetrock | 7 insulation | | 3 gold | 9 white | 15 other____ | | 3 fibrous | 3 splayed ends | 2 tan | | | 1 parallel | 3 crocidolite | 3 mineral wool | 3 shot | 3 CaSO ₄ |
| 3 roofing material | 8 floor tile | 2 Heterogeneous | 4 yellow | 10 red | | 4 firm | 4 fiber bundles | 3 blue | 3 blue | | | 2 oblique | 4 anthophyllite | 4 synthetic fiber | 4 high birefringence | 4 CaCO ₃ |
| 4 soil | 9 mastic/adhesive | | 5 silver | 11 green | | 5 soft | 5 single fibers | 4 brown | | if yes, give color | | Elongation ¹¹ | 5 tremolite | 5 wollastonite | 5 mult. elon. (flips) | 5 Vermiculite |
| 5 joint compound | 10 plaster | 3 Layered | 6 gray | 12 pink | | 6 paper-like | 6 blocky | 5 other_____ | | | + or - | 6 actinolite | 6 actinolite | 6 other_____ | 6 other_____ | |

| | Sample Descriptions | | Asbestos #1 | | Asbestos #2 | | Asbestos #3 | | % Asbestos Type (12) | | % Fibrous Non-Asbestos Type (13) | | | | Analyst's |
|----------------|-------------------------------|--------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------|-----|----------------------------------|---|---------------------------------------|-----------------------|-----------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | Notes | |
| 1481683 | Sample Type ¹ 9 | Visual Gross ² 1 | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | PC | | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | | |
| | | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ 4 | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | | | |
| | | | | | | | | VAE | | VAE | | | * scan | | |
| | | | | | | | | | | | | | | | |
| 11A | F or N | Texture ⁵ 5 | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | Asbestos Stereo VAE % | |
| | | | | | | | | | / | | | | | | |
| | | | | | | | | | VAE | | VAE | | | | |

| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input checked="" type="checkbox"/> | | Analytical Method: | | Mandatory | | Nonfibrous Types | | Fibrous | | Analyst's | |
|--|-------------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------|---------------------------------------|-------|-----------|-----------------------|
| Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | Analyst's | |
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | Notes | | |
| 1481684 | Sample Type ¹ 9 | Visual Gross ² 1 | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | PC | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | |
| | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ 4 | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 11B | F or N | Texture ⁵ 5 | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | Asbestos Stereo VAE % |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Nonfibrous Types ¹⁵ Percentage | | | | | | | | | | | | 6 | 100 |

| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <input type="checkbox"/> Specify if different | | Nonfibrous Types <input type="checkbox"/> | | Fibrous Non-Asbestos (13) <input type="checkbox"/> | | Analyst's Notes <input type="checkbox"/> | | | | |
|--|--------------------------|--|--------------------------|--|--------------------------|---|--------------------------|--|------------------|--|-----------------------------|----------------------|-----------------|---------------------------------------|
| Lab Sample # | Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | Analyst's Notes | |
| | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | | Optical Characteristics ¹⁴ |
| 1481685 | Sample Type ¹ | Visual Gross ² | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | PC | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | | |
| | | | | | | | | | VAE | | VAE | | | |
| 12A | F or N | Texture ⁵ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | Asbestos Stereo VAE % |
| | | | | | | | | | VAE | | VAE | | | |
| | | | | | | | | | | Nonfibrous Types | | Fibrous Non-Asbestos | | |

| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <input type="checkbox"/> | | Specify if different | | Nonfibrous Types <input type="checkbox"/> | | Fibrous Types <input type="checkbox"/> | | Page 2 of 2 | | |
|--|--------------------------|--|--------------------------|---|--------------------------|--------------------------|--------------------------|---|------------------|--|-----------------------------|-------------|-----------------|---------------------------------------|
| Lab Sample # | Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | Analyst's Notes | |
| | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | | Optical Characteristics ¹⁴ |
| 1481686 | Sample Type ¹ | Visual Gross ² | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | PC | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | | |
| | | | | | | | | | VAE | | VAE | | | |
| 12B | F or N | Texture ⁵ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | Asbestos Stereo VAE % |
| | | | | | | | | | VAE | | VAE | | | |

| | | | | |
|--|--|--|------------------|------------|
| Asbestos-Containing <input type="checkbox"/> | Non-Asbestos Containing <input type="checkbox"/> | Analytical Method: <small>Specify if different</small> | Nonfibrous Types | Percentage |
| | | | | |

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)

Date of Analysis: 4/19/24

Analyst: T.J.

Analytical Methods:

* If using scan option for ELAP, circle scan in notes block.

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAP's definition.

- EPA/600/R-93/116 Without Gravimetry
- EPA/600/R-93/116 With Gravimetry
- EPA/600/R-93/116: 400 Point Count

- EPA/600/R-93/116: 1000 Point Count
- PLM NOB Chatfield Method
- NYDOH ELAP 198.1 (Stratified Point Count)

- State of New Jersey DOLAWD Method (38 N.J.R. 2526)
- CARB 435:
- Other (specify):

BATTA PLM Bench Sheet

PLM Scope ID#: ☐ Nikon 202306 (Scope #1)

☐ Leica DM750P (Scope #2)

☐ Olympus 221810 (Scope #3)

☐ Olympus 240335 (Scope #4)

☐ Nikon 222212 (Scope #5)

☐ Nikon 102293 (Scope #6)

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☐ Olympus 202705 (Scope #7)

BLI Project # L363524

Name of Client/Project:

1093723K-HAPPY HOLLOW REC. CENTE

| Sample Type ¹ | Visual Gross ² | Sample Color ³ | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ 1-to 3-hi 2 medium 3 low | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|--|---|--|-----------------------------|--|--|--|-------------------------------------|--|--|---|--|--|
| Temperature (°C): 1 insulation 2 sheetrock 3 roofing material 4 soil 5 joint compound | 6 ceiling tile 7 linoleum 8 floor tile 9 mastic/adhesive 10 plaster | 1 black 2 tan 3 gold 4 yellow 5 silver 6 gray 7 brown 8 blue 9 white 10 red 11 green 12 pink 13 orange 14 various 15 other | Friable or Nonfriable | 1 cementic. 2 granular 3 fibrous 4 firm 5 soft 6 paper-like | 1 wavy 2 straight 3 splayed ends 4 fiber bundles 5 single fibers 6 blocky | 1 clear 2 tan 3 blue 4 brown 5 other | 1 no 2 yes if yes, give color | 10 1 parallel 2 oblique 11 + or - | 1 chrysotile 2 amosite 3 crocidolite 4 anthophyllite 5 tremolite 6 actinolite | 1 cellulose 2 fiberglass 3 mineral wool 4 synthetic fiber 5 wollastonite other | 1 undulose ext. 2 isotropic 3 shot 4 high birefringence 5 mult. elon. (flips) other | 1 matrix 2 binder 3 CaSO ₄ 4 CaCO ₃ 5 Vermiculite 6 other |

| Lab Sample # | Sample Descriptions | Asbestos #1 | Asbestos #2 | Asbestos #3 | % Asbestos Type (12) | % Fibrous Non-Asbestos Type (13) | Analyst's Notes |
|----------------------|---|--|--|--|----------------------|--|-----------------------|
| Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | Method of Quant. | Method of Quant. | |
| 1481687 | Sample Type ¹ Visual Gross ² | Morph ⁶ Fiber Color ⁷ | Morph ⁶ Fiber Color ⁷ | Morph ⁶ Fiber Color ⁷ | 12345678 VAE | PC VAE | |
| Field Sample # | Friability ⁴ Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 VAE | PC VAE | * scan |
| 13A | F or N Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 VAE | PC VAE | Asbestos Stereo VAE % |
| | | | | | | Nonfibrous Types ¹⁵ Percentage | |

| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: | | Mandatory | | Nonfibrous Types | | Fibrous Non-Asbestos (13) | | Analyst's | |
|--|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|---------------------------|-----------------------------|-----------|-----------------------|
| Lab Sample # | Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | Analyst's Notes |
| | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | |
| 1481688 | Sample Type ¹ | Visual Gross ² | Morph ⁶ | nD | Morph ⁶ | nD | Morph ⁶ | nD | 12345678 | | PC | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | |
| | | | | | | | | | VAE | | VAE | | * scan |
| 13B | F or N | Texture | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | Asbestos Stereo VAE % |
| | | | | | | | | | VAE | | VAE | | |
| | | | | | | | | | Nonfibrous Types | | Percentage | | |

| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: <input type="checkbox"/> | | Specify if different | | Nonfibrous Types <input type="checkbox"/> | | Percentage <input type="checkbox"/> | | Fibrous Non-Asbestos (13) <input type="checkbox"/> | | Analyst's Notes <input type="checkbox"/> | |
|--|----------------------------------|--|--------------------------|---|--------------------------|--------------------------|--------------------------|---|---|-------------------------------------|-------------------------------------|--|---------------------------------------|--|-----------------------|
| Lab Sample # | Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | Analyst's Notes | | |
| | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | Notes | |
| 1481689 | Sample Type ¹ Flow | Visual Gross ² 1 | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | PC | | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | | |
| Field Sample # | Friability ⁴ 14 | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | PC | | | | |
| | | | | | | | | | / | | VAE | | | | * scan |
| 14A | F or N | Texture ⁵ 4 | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | PC | | | | |
| | | | | | | | | | / | | VAE | | | | Asbestos Stereo VAE % |
| | | | | | | | | | Nonfibrous Types <input type="checkbox"/> | | Percentage <input type="checkbox"/> | | | | |

| Asbestos-Containing <input type="checkbox"/> | | Non-Asbestos-Containing <input type="checkbox"/> | | Analytical Method: | | Specify if different | | Nonfibrous Types <input type="checkbox"/> | | Fibrous Non-Asbestos (13) | | Analyst's Notes | |
|--|--|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|------------------|---------------------------|-----------------------------|-----------------|-----------------------|
| Lab Sample # | Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | Analyst's Notes |
| | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | | Method of Quant. | | |
| 1481690 | Sample Type ¹ <i>Alc</i> | Visual Gross ² <i>1</i> | Morph ⁶ | <i>nD II</i> | Morph ⁶ | <i>nD II</i> | Morph ⁶ | <i>nD II</i> | 1 2 3 4 5 6 7 8 | | PC | | |
| | | | Fiber Color ⁷ | <i>nD ⊥</i> | Fiber Color ⁷ | <i>nD ⊥</i> | Fiber Color ⁷ | <i>nD ⊥</i> | VAE | | VAE | | |
| | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ <i>14</i> | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 1 2 3 4 5 6 7 8 | | PC | | * scan |
| | | | | | | | | | VAE | | VAE | | |
| | | | | | | | | | | | | | |
| 14B | F or N | Texture ⁵ <i>4</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 1 2 3 4 5 6 7 8 | | PC | | Asbestos Stereo VAE % |
| | | | | | | | | | VAE | | VAE | | |
| | | | | | | | | | | | | | |

| Asbestos-Containing | Non-Asbestos-Containing | Analytical Method: | Specify if different |
|--------------------------|--------------------------|--------------------|----------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | | |

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)

Date of Analysis:

Analyst:

Analytical Methods:

* If using scan option for ELAP, circle scan in notes block.

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAP's definition.

- EPA/600/R-93/116 Without Gravimetry
- EPA/600/R-93/116 With Gravimetry
- EPA/600/R-93/116: 400 Point Count

- EPA/600/R-93/116: 1000 Point Count
- PLM NOB Chatfield Method
- NYDOH ELAP 198.1 (Stratified Point Count)

- State of New Jersey DOLAWD Method (38 N.J.R. 2526)
- CARB 435:
- Other (specify):

☐ Olympus 202705 (Scope #7)

1093723K-HAPPY HOLLOW REC. CENTER

| Sample Type ¹ | | Visual Gross ² | Sample Color ³ | | | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ 1-lo 3-hi | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|--------------------------|-------------------|---------------------------|---------------------------|----------|---------------|-----------------------------|-----------------------------|-------------------------|---|--------------------------|---|------------------------------|----------------------------------|--|---------------------------------|
| Temperature (°C): _____ | | | 1 black | 7 brown | 13 orange | | 1 cementic | 1 wavy | | | 2 medium | 1 chrysotile | 1 cellulose | 1 undulose exd | 1 matrix |
| 1 insulation | 6 ceiling tile | 1 Homogenous | 2 tan | 8 blue | 14 various | Friable or Nonfriable | 2 granular | 2 straight | 1 clear | 1 no 2 yes | Extinction ¹⁰ | 2 amosite | 2 fiberglass | 2 isotropic | 2 binder |
| 2 sheetrock | 7 linoleum | | 3 gold | 9 white | 15 other_____ | | 3 fibrous | 3 splayed ends | 2 tan | | 1 parallel | 3 crocidolite | 3 mineral wool | 3 shot | 3 CaSO ₄ |
| 3 roofing material | 8 floor tile | 2 Heterogeneous | 4 yellow | 10 red | | | 4 lim | 4 fiber bundles | 3 blue | | 2 oblique | 4 anthophyllite | 4 synthetic fiber | 4 high birefringence | 4 CaCO ₃ |
| 4 soil | 9 mastic/adhesive | | 5 silver | 11 green | | 5 soft | 5 single fibers | 4 brown | if yes, give color | | Elongation ¹¹ | 5 tremolite | 5 wollastonite | 5 mult elon (flips) | 5 Vermiculite |
| 5 joint compound | 10 plaster | 3 Layered | 6 gray | 12 pink | | 6 paper-like | 6 blocky | 5 other_____ | | | + or - | 6 actinolite | other_____ | other_____ | 6 other_____ |

| Sample Descriptions | | | Asbestos #1 | | Asbestos #2 | | Asbestos #3 | | % Asbestos Type (12) | | % Fibrous Non-Asbestos Type (13) | | | | Analyst's | | | |
|--|--|---------------------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------|--|--|--|--------------------------|-----|-----------|--|---------------------------------------|-----------------------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | | % | | Method of Quant. | | % | | Optical Characteristics ¹⁴ | Notes |
| 1481691 | Sample Type ¹ <i>Glaze</i> | Visual Grps ² <i>1</i> | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | | | PC | | | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | | | | VAE | | | | |
| | | | | | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ <i>9</i> | Sample Color ³ <i>9</i> | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | | | PC | | | | | |
| | | | | | | | | | VAE | | | | | VAE | | | | |
| | | | | | | | | | | | | | | | | | | |
| 15A | F or N | Texture ⁵ <i>4</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 12345678 | | | | PC | | | | | * scan |
| | | | | | | | | | VAE | | | | | VAE | | | | Asbestos Stereo VAE % |
| | | | | | | | | | | | | | | | | | | |
| Asbestos-Containing <input type="checkbox"/> | | | Non-Asbestos-Containing <input type="checkbox"/> | | | Analytical Method: | | | Mandatory | | Nonfibrous Types ¹⁵ <i>6</i> | | Percentage <i>100</i> | | | | | |

| Sample Descriptions | | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | | | Analyst's Notes |
|--|--|---------------------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------|---|--|---|---------------------------------------|--|-------------------------------------|
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | | |
| 1481692 | Sample Type ¹ <i>1a Skin</i> | Visual Gross ² <i>1</i> | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | <i>12345678</i> | | PC | | | | <i>layer</i> |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | VAE | | | | |
| | | | | | | | | | | | | | | | |
| Field Sample # | Friability ⁴ <i>9</i> | Sample Color ³ <i>9</i> | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | <i>12345678</i> | | PC | | | | <i>* scan</i> |
| | | | | | | | | | / | | VAE | | | | |
| | | | | | | | | | | | | | | | |
| 16A | F or N | Texture ⁵ <i>4</i> | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | <i>12345678</i> | | PC | | | | Asbestos Stereo VAE % <i>100</i> |
| | | | | | | | | | / | | VAE | | | | |
| | | | | | | | | | | | | | | | |
| Asbestos-Containing <input type="checkbox"/> | | | Non-Asbestos-Containing <input type="checkbox"/> | | | Analytical Method: | | | Specify if different | | Nonfibrous Types ¹⁵ <i>100</i> | | Percentage | | |

| Lab Sample # | | Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | | Analyst's Notes | | |
|----------------|--|---------------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------------|--|-----------------------------|------------------|------------|-----------------|--------|---------------------------------------|
| | | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | | % | Method of Quant. | | | % | Optical Characteristics ¹⁴ |
| 1481693 | Sample Type ¹ <i>10stk</i> | Visual Gross ² <i>1</i> | Morph ⁶ | nD II | Morph ⁶ | nD II | Morph ⁶ | nD II | 12345678 | | | | PC | | | | |
| | | | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | Fiber Color ⁷ | nD ⊥ | VAE | | | | VAE | | | | |
| | | | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 12345678 | | | | PC | | | |
| Field Sample # | Friability ⁴ <i>9</i> | Texture ⁵ <i>4</i> | Birefr ⁹ | Elongation ¹¹ | Birefr ⁹ | Elongation ¹¹ | Birefr ⁹ | Elongation ¹¹ | / | | | | VAE | | | * scan | |
| 16B | | | F or N | 12345678 | | | | PC | | | | | | | | | |
| | | | | / | | | | VAE | | | | | | | | | |
| | | | | | | | | | | 12345678 | | | | PC | | | Asbestos Stereop VAE % |
| | | | | | | | | | | VAE | | | | VAE | | | |
| | | | | | | | | | | Nonfibrous Types ¹⁵ | | | | Percentage | | | |

| Asbestos-Containing () Non-Asbestos-Containing () Analytical Method: | | | | | | | | | | | | | | | | Asbestos (12) | | % Fibrous Non-Asbestos (13) | | | | Analyst's |
|--|-----------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------|-----------------------------|------------------|---------------------------------------|---------------------------------------|-----------|-----------------------------|--------------------------------|--|-----------------------------|--|--|--|-----------|
| Sample Descriptions | | Type #1 | | Type #2 | | Type #3 | | % Asbestos (12) | | % Fibrous Non-Asbestos (13) | | Optical Characteristics ¹⁴ | | Analyst's | | | | | | | | |
| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | | Optical Properties | | Optical Properties | | Method of Quant. | % | Method of Quant. | % | Optical Characteristics ¹⁴ | | Notes | | | | | | | |
| 1481694 | Sample Type ¹ 10SKN | Visual Gross ² | Morph ⁶ | n _D II | Morph ⁶ | n _D II | Morph ⁶ | n _D II | 1 2 3 4 5 6 7 8 | | PC | | | | | | | | | | | |
| | | | Fiber Color ⁷ | n _D ⊥ | Fiber Color ⁷ | n _D ⊥ | Fiber Color ⁷ | n _D ⊥ | VAE | | VAE | | | | | | | | | | | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | Pleochroism ⁸ | Extinction ¹⁰ | 1 2 3 4 5 6 7 8 | | PC | | | | * scan | | | | | | | |
| | | | | | | | | | / | | VAE | | | | | | | | | | | |
| 16C | F or N | Texture ⁵ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | Biref. ⁹ | Elongation ¹¹ | 1 2 3 4 5 6 7 8 | | PC | | | | Asbestos Stereo VAE % | | | | | | | |
| | | | | | | | | | / | | VAE | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Nonfibrous Types ¹⁵ | | Percentage | | | | |

| | | | |
|---|--|---|------------------------------|
| Asbestos-Containing <input type="checkbox"/> | Non-Asbestos Containing <input checked="" type="checkbox"/> | Analytical Method: <u>Specify if different</u> | |
| PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent) | | Date of Analysis: <u>4/19/2010</u> | Analyst: <u>1a 11</u> |
| Analytical Methods: * If using scan option for ELAP, circle scan in notes block. Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAPs definition. | | | |
| 1. EPA/600/R-93/116 Without Gravimetry | 4. EPA/600/R-93/116: 1000 Point Count | 7. State of New Jersey DOLAWD Method (38 N.J.R. 2526) | |
| 2. EPA/600/R-93/116 With Gravimetry | 5. PLM NOB Chatfield Method | 8. CARB 435: | |
| 3. EPA/600/R-93/116: 400 Point Count | 6. NYDOH ELAP 19R.1 (Stratified Point Count) | 9. Other (specify): | |

BATTA PLM Bench Sheet

☐ Olympus 221810 (Scope #3) ☐ Nikon 22212 (Scope #5) Page 9 of 9
☐ Nikon 202306 (Scope #1) ☒ Leica DM750P (Scope #2) ☐ Olympus 240335 (Scope #4) ☐ Nikon 102293 (Scope #6) ☐ Olympus 202705 (Scope #7)

BLI Project # **L363524**

Name of Client/Project: **1093723K-HAPPY HOLLOW REC. CENTE**

| Sample Type ¹ | Visual Gross ² | Sample Color ³ | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|--------------------------|---------------------------|---------------------------|-------------------------|-----------------------------|-------------------------|---|--------------------------|----------------------------|------------------------------|----------------------------------|--|---------------------------------|
| Temperature (°C): | | 1 black 7 brown 13 orange | | 1 cementic. | 1 wavy | | | 1-4 3-Hi | 1 chrysotile | 1 cellulose | 1 undulose ext. | 1 matrix |
| 1 insulation | 6 ceiling tile | 2 tan 8 blue 14 various | Friable | 2 granular | 2 straight | 1 clear | 1 no 2 yes | 2 medium | 2 amosite | 2 fiberglass | 2 isotropic | 2 binder |
| 2 sheetrock | 7 linoleum | 3 gold 9 white 15 other | or | 3 fibrous | 3 splayed ends | 2 tan | | Extinction ¹⁰ | 3 crocidolite | 3 mineral wool | 3 shot | 3 CaSO ₄ |
| 3 roofing material | 8 floor tile | 4 yellow 10 red | Nonfriable | 4 lim | 4 fiber bundles | 3 blue | | 1 parallel | 4 anthophyllite | 4 synthetic fiber | 4 high birefringence | 4 CaCO ₃ |
| 4 soil | 9 mastic/adhesive | 5 silver 11 green | | 5 soft | 5 single fibers | 4 brown | if yes, give color | 2 oblique | 5 tremolite | 5 wollastonite | 5 mult. elon. (flips) | 5 Vermiculite |
| 5 joint compound | 10 plaster | 6 gray 12 pink | | 6 paper-like | 6 blocky | 5 other | | Elongation ¹¹ | 6 actinolite | 6 other | 6 other | 6 other |

| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | % Asbestos Type (12) | % Fibrous Non-Asbestos Type (13) | Analyst's Notes |
|----------------|--------------------------|---------------------------|---|---|---|----------------------|----------------------------------|-----------------------|
| 1481695 | Sample Type ¹ | Visual Gross ² | Morph ⁶ ND II | Morph ⁶ ND II | Morph ⁶ ND II | 12345678 | PC | |
| | 10 skin | 1 | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | VAE | VAE | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 | PC | |
| | 9 | 9 | | | | VAE | VAE | * scan |
| 16D | F or N | Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 | PC | Asbestos Stereo VAE % |
| | 4 | 4 | | | | VAE | VAE | |

Asbestos-Containing ☐ Non-Asbestos-Containing ☒ Analytical Method: Mandatory

| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|----------------|--------------------------|---------------------------|---|---|---|-----------------|-----------------------------|-----------------------|
| 1481696 | Sample Type ¹ | Visual Gross ² | Morph ⁶ ND II | Morph ⁶ ND II | Morph ⁶ ND II | 12345678 | PC | |
| | 10 skin | 1 | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | VAE | VAE | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 | PC | |
| | 9 | 9 | | | | VAE | VAE | * scan |
| 16E | F or N | Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 | PC | Asbestos Stereo VAE % |
| | 4 | 4 | | | | VAE | VAE | |

Asbestos-Containing ☐ Non-Asbestos-Containing ☒ Analytical Method: Specify it different

| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|----------------|--------------------------|---------------------------|---|---|---|-----------------|-----------------------------|-----------------------|
| 1482175 | Sample Type ¹ | Visual Gross ² | Morph ⁶ ND II | Morph ⁶ ND II | Morph ⁶ ND II | 12345678 | PC | |
| | 108 skin | 1 | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | VAE | VAE | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 | PC | |
| | 6 | 6 | | | | VAE | VAE | * scan |
| 16A | F or N | Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 | PC | Asbestos Stereo VAE % |
| | 4 | 4 | | | | VAE | VAE | |

Asbestos-Containing ☐ Non-Asbestos-Containing ☒ Analytical Method: Specify it different

| Lab Sample # | Client-Supplied Data | Macroscopic | Optical Properties | Optical Properties | Optical Properties | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|----------------|--------------------------|---------------------------|---|---|---|-----------------|-----------------------------|-----------------------|
| 176 | Sample Type ¹ | Visual Gross ² | Morph ⁶ ND II | Morph ⁶ ND II | Morph ⁶ ND II | 12345678 | PC | |
| | 108 skin | 1 | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | Fiber Color ⁷ ND ⊥ | VAE | VAE | |
| Field Sample # | Friability ⁴ | Sample Color ³ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 12345678 | PC | |
| | 6 | 6 | | | | VAE | VAE | * scan |
| 16B | F or N | Texture ⁵ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 12345678 | PC | Asbestos Stereo VAE % |
| | 4 | 4 | | | | VAE | VAE | |

Asbestos-Containing ☐ Non-Asbestos-Containing ☒ Analytical Method: Specify it different

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)
 Date of Analysis: 4/19/24 Analyst: 11
Analytical Methods: * If using scan option for ELAP, circle scan in notes block. Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAP's definition.
 1. EPA/600/R-93/116 Without Gravimetry 4. EPA/600/R-93/116: 1000 Point Count 7. State of New Jersey DOLA Method (38 N.J.R. 2526)
 2. EPA/600/R-93/116 With Gravimetry 5. PLM NOB Chatfield Method 8. CARB 435:
 3. EPA/600/R-93/116: 400 Point Count 6. NYDOH ELAP 198.1 (Stratified Point Count) 9. Other (specify):

BATTA PLM Bench Sheet

PLM Scope ID#: ☐ Nikon 202306 (Scope #1) ☒ Olympus 222204 (Scope #2) ☐ Olympus 240335 (Scope #4) ☐ Nikon 222212 (Scope #5) ☐ Nikon 102293 (Scope #6) ☐ Olympus 202705 (Scope #7) Page of

BLI Project #

Name of Client/Project:

| Sample Type ¹ | Visual Gross ² | Sample Color ³ | Friability ⁴ | Sample Texture ⁵ | Morphology ⁶ | Fiber Color (in plane light) ⁷ | Pleochroism ⁸ | Birefringence ⁹ 1-lo 3-hi | Asbestos Types ¹² | Non-Asbestos Types ¹³ | Optical/Morph. Characteristics ¹⁴ | Non-Fibrous Types ¹⁵ |
|--|---|--|---|-----------------------------|---|--|--|---|--|---|--|--|
| Temperature (°C): 1 insulation 2 sheetrock 3 roofing material 4 soil 5 joint compound | 6 ceiling tile 7 linoleum 8 floor tile 9 mastic/adhesive 10 plaster | 1 Homogenous 2 Heterogeneous 3 Layered | 1 black 7 brown 13 orange 2 tan 8 blue 14 various 3 gold 9 white 15 other | Friable or Nonfriable | 1 cementic 2 granular 3 fibrous 4 firm 5 soft 6 paper-like | 1 wavy 2 straight 3 splayed ends 4 fiber bundles 5 single fibers 6 blocky | 1 clear 2 tan 3 blue 4 brown 5 other | 1 no 2 yes # yes, give color | 1 chrysotile 2 amosite 3 crocidolite 4 anthophyllite 5 tremolite 6 actinolite | 1 cellulose 2 fiberglass 3 mineral wool 4 synthetic fiber 5 wollastonite 6 other | 1 undulose ext. 2 isotropic 3 shot 4 high birefringence 5 mult. elon. (flips) 6 other | 1 matrix 2 binder 3 CaSO ₄ 4 CaCO ₃ 5 Vermiculite 6 other |

| Lab Sample # | Sample Descriptions | Asbestos #1 | Asbestos #2 | Asbestos #3 | % Asbestos Type (12) | % Fibrous Non-Asbestos Type (13) | Analyst's Notes |
|--|--|---|---|---|--------------------------------|----------------------------------|-----------------------|
| 1482 | Sample Type ¹ Visual Gross ² Fiber Color ⁷ | Morph ⁶ "D" II Fiber Color ⁷ "D" ± | Morph ⁶ "D" II Fiber Color ⁷ "D" ± | Morph ⁶ "D" II Fiber Color ⁷ "D" ± | 1 2 3 4 5 6 7 8 VAE | PC VAE | |
| Field Sample # | Friability ⁴ Sample Color ³ Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 1 2 3 4 5 6 7 8 VAE | PC VAE | scan * |
| 16C | F or N Texture ⁵ Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 1 2 3 4 5 6 7 8 VAE | PC VAE | Asbestos Stereo VAE % |
| Asbestos-Containing <input type="checkbox"/> Non-Asbestos-Containing <input type="checkbox"/> Analytical Method: Magnetics | | | | | Nonfibrous Types ¹⁵ | Percentage | |

| Lab Sample # | Sample Descriptions | Type #1 | Type #2 | Type #3 | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|--|--|---|---|---|--------------------------------|-----------------------------|-----------------------|
| 173 | Sample Type ¹ Visual Gross ² Fiber Color ⁷ | Morph ⁶ "D" II Fiber Color ⁷ "D" ± | Morph ⁶ "D" II Fiber Color ⁷ "D" ± | Morph ⁶ "D" II Fiber Color ⁷ "D" ± | 1 2 3 4 5 6 7 8 VAE | PC VAE | |
| Field Sample # | Friability ⁴ Sample Color ³ Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 1 2 3 4 5 6 7 8 VAE | PC VAE | scan * |
| 16D | F or N Texture ⁵ Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 1 2 3 4 5 6 7 8 VAE | PC VAE | Asbestos Stereo VAE % |
| Asbestos-Containing <input type="checkbox"/> Non-Asbestos-Containing <input type="checkbox"/> Analytical Method: Magnetics | | | | | Nonfibrous Types ¹⁵ | Percentage | |

| Lab Sample # | Sample Descriptions | Type #1 | Type #2 | Type #3 | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|--|--|---|---|---|--------------------------------|-----------------------------|-----------------------|
| 174 | Sample Type ¹ Visual Gross ² Fiber Color ⁷ | Morph ⁶ "D" II Fiber Color ⁷ "D" ± | Morph ⁶ "D" II Fiber Color ⁷ "D" ± | Morph ⁶ "D" II Fiber Color ⁷ "D" ± | 1 2 3 4 5 6 7 8 VAE | PC VAE | |
| Field Sample # | Friability ⁴ Sample Color ³ Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 1 2 3 4 5 6 7 8 VAE | PC VAE | scan * |
| 16E | F or N Texture ⁵ Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 1 2 3 4 5 6 7 8 VAE | PC VAE | Asbestos Stereo VAE % |
| Asbestos-Containing <input type="checkbox"/> Non-Asbestos-Containing <input type="checkbox"/> Analytical Method: Magnetics | | | | | Nonfibrous Types ¹⁵ | Percentage | |

| Lab Sample # | Sample Descriptions | Type #1 | Type #2 | Type #3 | % Asbestos (12) | % Fibrous Non-Asbestos (13) | Analyst's Notes |
|--|--|---|---|---|--------------------------------|-----------------------------|-----------------------|
| | Sample Type ¹ Visual Gross ² Fiber Color ⁷ | Morph ⁶ "D" II Fiber Color ⁷ "D" ± | Morph ⁶ "D" II Fiber Color ⁷ "D" ± | Morph ⁶ "D" II Fiber Color ⁷ "D" ± | 1 2 3 4 5 6 7 8 VAE | PC VAE | |
| Field Sample # | Friability ⁴ Sample Color ³ Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | Pleochroism ⁸ Extinction ¹⁰ | 1 2 3 4 5 6 7 8 VAE | PC VAE | scan * |
| | F or N Texture ⁵ Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | Biref. ⁹ Elongation ¹¹ | 1 2 3 4 5 6 7 8 VAE | PC VAE | Asbestos Stereo VAE % |
| Asbestos-Containing <input type="checkbox"/> Non-Asbestos-Containing <input type="checkbox"/> Analytical Method: Magnetics | | | | | Nonfibrous Types ¹⁵ | Percentage | |

Asbestos-Containing ☐ Non-Asbestos-Containing ☐ Analytical Method: Magnetics

PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent)

Date of Analysis:

Analyst:

Analytical Methods:

- * If using scan option for ELAP, circle scan in notes block
- 1. EPA/600/R-93/116 Without Gravimetry
- 2. EPA/600/R-93/116 With Gravimetry
- 3. EPA/600/R-93/116: 400 Point Count
- 4. EPA/600/R-93/116: 1000 Point Count
- 5. PLM NOB Chatfield Method
- 6. NYDOH ELAP 198.1 (Stratified Point Count)

Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAP's definition.

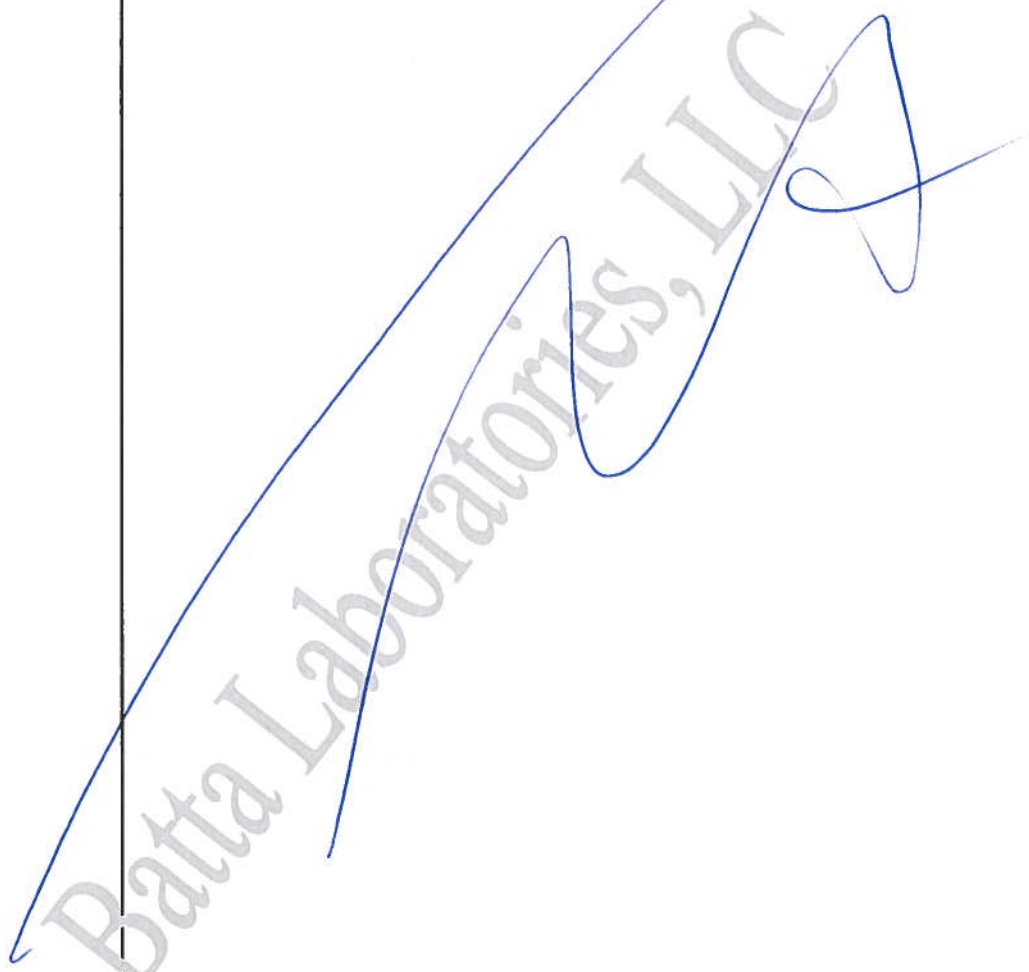
- 7. State of New Jersey DOLA Method (38 N.J.R. 2528)
- 8. CARB 435
- 9. Other (specify):

Analysts' Notes

Page of

BLI Project # L363524

Client/BEA Project # 1093723K-HAPPY HOLLOW REC. CENTER

| Sample Number | Comments |
|---------------|---|
| |  |

Date:

4/19/24

Analyst:

[Signature]