PRE-DEMOLITION HAZARDOUS MATERIALS ASSESSMENT REPORT

FORMER RC COLA/COCA- COLA BOTTLING PLANT
1506 N. GRAND RIVER AVENUE
LANSING, INGHAM COUNTY, MICHIGAN 48906

SME Project Number: 083616.00

March 19, 2021

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March 19, 2021

Turner Dodge Development, LLC
c/o Associated Environmental Services, LLC
40701 Woodward Avenue, Suite 50
Bloomfield Hills, Michigan 48304
Attn: Mr. Nicholas G. Maloof, RPG

RE: Pre-Demolition Hazardous Materials Assessment Report
Former RC Cola/Coca- Cola Bottling Plant
1506 North Grand River Avenue
Lansing, Ingham County, Michigan 48906
SME Project No.: 083616.00

Dear Mr. Maloof:

We have completed a Hazardous Materials Assessment of the building located at 1506 North Grand River Avenue, Lansing, Michigan. Turner-Dodge Development, LLC, requested the assessment prior to the planned demolition of the building. The Hazardous Materials Assessment was funded by the U.S Environmental Protection Agency Brownfields Assessment Grant for hazardous substances for the Lansing Regional Brownfields Coalition, Cooperative Agreement #BF-00E02710, and by a ten percent developer cost share agreement paid by Turner-Dodge Development, LLC.

Please contact us if you have any questions regarding the assessment.

Sincerely,

SME

Percy C Richards, III
Environmental Technician

Jason C. Lafayette
Senior Project Consultant

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1. INTRODUCTION

We completed a Hazardous Materials Assessment of the building located at 1506 North Grand River Avenue, Lansing, Michigan. The site was developed with an approximately 50,000 square-foot, single level, former RC Cola/Coca Cola soda bottling facility. The building was unoccupied at the time of our assessment. We conducted the assessment activities to assist with identification of asbestos-containing materials (ACMs), potential lead-bearing and cadmium-bearing paints, and other regulated materials and universal waste items prior to demolition of the building. The Hazardous Materials Assessment was funded by the U.S Environmental Protection Agency Brownfields Assessment Grant for hazardous substances for the Lansing Regional Brownfields Coalition, Cooperative Agreement #BF-00E02710, and by a ten percent developer cost share agreement.

This assessment will provide information to assist in complying with the United States Environmental Protection Agency (USEPA) requirements for inspection of commercial buildings prior to demolition under the National Emission Standards for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61). The assessment also provides information to assist in complying with: the Occupational Safety and Health Administration (OSHA) Asbestos Construction Standard (29 CFR Part 1926.1101); the OSHA Lead Exposure in Construction Standard (29 CFR Part 1926.62); and the OSHA Cadmium Construction Standard (29 CFR 1926.1127), regarding communication of hazards. The Michigan Occupational Safety and Health Administration (MIOSHA) adopted the OSHA standard by reference.

SME staff members, Mr. Percy Richards (Accreditation No. A45410), and Mr. Anthony Hosbein (Accreditation No. A37250), and Mr. Jason Lafayette (Accreditation No. A36979) trained in accordance with the USEPA regulations and accredited by the Michigan Department of Labor and Economic Opportunity (MDLEO), under the requirements of Michigan Act 440 as Asbestos Inspectors, conducted the field activities.

2. ASBESTOS

2.1 VISUAL ASSESSMENT AND SAMPLING PROCEDURES

On January 13 and 15, 2021, we conducted a visual assessment and identified and estimated quantities of suspect ACMs associated with the building and assigned a unique homogeneous area number to each suspect ACM observed. A homogenous area, as defined by the USEPA's Asbestos Hazard Emergency Response Act (AHERA, 40 CFR Part 763), is an area of thermal system insulation (TSI), surfacing material, or miscellaneous material that appears uniform in color and texture.

Following the visual assessment, we collected 90 samples from 37 of the 40 homogenous areas of suspected ACMs in accordance with the AHERA assessment protocol (40 CFR Part 763), which is also referenced by the OSHA regulations. The sampling locations are shown on the sketch in Appendix D. Two types of suspect asbestos-containing fire doors (HA4 and HA16), and fire safes (HA35), were not destructively assessed and sampled for asbestos content. As such, these materials are considered assumed ACMs for the purpose of the assessment.

We submitted the suspect bulk samples to International Asbestos Testing Laboratories (IATL), a laboratory accredited by the National Institute of Standards and Technology (NIST) under the requirements of the National Voluntary Laboratory Accreditation Program (NVLAP), for asbestos analysis of the bulk samples via Polarized Light Microscopy (PLM). Samples found to contain less than ten percent (10%) asbestos via the visual estimation method of PLM were further verified via the "Point Count Method" as defined by the AHERA regulation (40 CFR Part 763). Results from analyses of samples collected from suspect ACMs are presented in the following subsections.

2.2 FINDINGS AND CONCLUSIONS

USEPA and OSHA asbestos regulations define an ACM as a building material containing greater than one percent (1%) asbestos. A summary of the descriptions of suspect ACMs identified during our assessment, ACM or non-ACM categorization, estimated quantity, friability, condition, and locations of the materials sampled is also presented in Table 1. The Chain-of-Custody forms and analytical data for the bulk asbestos samples are included in **Appendix A**. Below is a summary of the identified ACMs and assumed ACMs relative to the planned demolition.

2.2.1 RACMs THAT MUST BE REMOVED PRIOR TO DEMOLITION

According to the United States Environmental Protection Agency (USEPA) National Emission Standards for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61, M), Regulated Asbestos-Containing Materials (RACMs) must be removed from a building prior to demolition. RACMs include thermal system insulation (TSI), surfacing materials, friable ACMs, and Category I and Category II nonfriable ACMs that are considered friable or likely to become friable if subjected to demolition forces. According to the OSHA Asbestos Construction Standard (29 CFR Part 1926.1101) ACMs must be removed by appropriately trained and accredited staff, and in accordance with the asbestos work requirements included in the standard.

The following materials are considered RACMs and must be removed from the building prior to demolition:

2.2.1.1 RACMs

- 135 square feet of window glazing material (HA1); located on the east bay and south bay windows, and observed to be in damaged condition;

- 85 square feet of 12”x12” off-white floor tile (HA6); located in east bay, south bay, and south bay boiler room, and observed to be in good condition;
    - Although the nonfriable floor tiles were in good condition, because the tiles were adhered to the concrete floor of the building, they are likely to be rendered friable during demolition of the floor slab, and are therefore considered RACM relative to planned demolition.
- 4,200 square feet of 9”x9” tan floor tile (HA11); located in south bay men’s restroom, south bay lunchroom, south bay women’s restroom, north bay office area, and main office area, and observed to be in good condition;
    - Although the nonfriable floor tiles were in good condition, because the tiles were adhered to the concrete floor of the building, they are likely to be rendered friable during demolition of the floor slab, and are therefore considered RACM relative to planned demolition.
- 650 linear feet of white corrugated pipe insulation on straight sections on 3” diameter insulated lines, (HA26), located in the south bay, east bay, south office area, and restrooms, and observed to be in significantly damaged condition;
- White mudded insulation on 35 fittings of 3” diameter insulated lines (HA27); located in the south bay, east bay, south office area, and restrooms, and observed to be in significantly damaged condition;
- 220 linear feet of brown layered pipe insulation on straight sections on 3” diameter insulated lines, (HA28), located in the south bay and east bay, and observed to be in significantly damaged condition;
- White mudded insulation on three fittings of 3” diameter insulated lines (HA29); located in the south bay and east bay, and observed to be in significantly damaged condition;
- 740 linear feet of white corrugated pipe insulation on straight sections on 4” diameter insulated lines, (HA30), located in the south bay, east bay, south office area, and restrooms, and observed to be in significantly damaged condition;
- White mudded insulation on 65 fittings of 4” diameter insulated lines (HA31); located in the south bay, east bay, south office area, and restrooms, and observed to be in significantly damaged condition;
- 280 linear feet of white corrugated pipe insulation on straight sections on 8” diameter insulated lines, (HA32), located in the south bay, east bay, south office area, and restrooms, and observed to be in significantly damaged condition;
- White mudded insulation on 14 fittings of 8” diameter insulated lines (HA33); located in the south bay, east bay, south office area, and restrooms, and observed to be in significantly damaged condition; and
- White mudded insulation (HA34) on a 6’x4’ tank; located in south bay above the women’s restroom, and observed to be good condition.

Additionally, it should be noted that the significantly damaged condition of the asbestos-containing pipe insulations has resulted in several areas of asbestos debris and dust contamination on floor surfaces beneath the pipe systems.

Foot traffic in these areas will unavoidably disturb the dust and debris and increase the likelihood of asbestos exposure.

Independent of the demolition plans for the building, we recommend restricting access to these areas and/or prompt cleanup of the asbestos dust and debris to minimize the potential for asbestos exposure.

2.2.1.2 ASSUMED RACMs

- Five assumed asbestos-containing fire doors (HA4 and HA16); located in the east bay, south bay, and south bay boiler room of the building, and observed to be in good condition;
- Insulation associated with two assumed asbestos-containing fire safes (HA35), located in the room southeast of the main entrance of the building, and observed to be in good condition.

2.2.2 ACMs PERMITTED TO REMAIN IN PLACE DURING DEMOLITION

According to the USEPA NESHAP asbestos regulation, nonfriable ACMs/assumed ACMs, which were in good condition, can remain in the building during demolition provided that they are not rendered friable by the work activities. **If the following nonfriable ACMs/assumed ACMs will remain in the building during demolition, the demolition activities must be conducted by staff trained to conduct demolition involving ACMs/assumed ACMs, the work must be reviewed by an asbestos supervisor accredited by the MDLEO, and conducted in accordance with the OSHA Asbestos Construction Standard:**

2.2.2.1 ACMs

- 350 square feet of wallboard wall system (HA13), and 350 square feet of wallboard ceiling system (HA15) contaminated with asbestos-containing joint compound;
    - Under a clarification to the asbestos NESHAP regulation (40 CFR 61 M), the USEPA indicated wallboard and wallboard joint compound may be considered a single "system" and analyzed together as a composite sample. Analytical results of composite analysis (wallboard, joint compound and/or seam tape together) of the wallboard system samples from both the asbestos-containing wallboard wall and ceiling systems contained "trace" amounts of asbestos (less than 1%). As such, the USEPA does not consider these wallboard systems to be a RACMs and the materials are permitted to remain in the building during demolition.
    - Although not regulated by USEPA NESHAP, the asbestos-containing joint compound associated with the wallboard systems is considered a separate ACM according to the OSHA Asbestos Construction Standard and, therefore, work (including demolition) that would disturb the asbestos-containing joint compound must be conducted in accordance with the required work procedures and training requirements outlined in the standard.
- 70 square feet of membrane associated with the truck dock (HA37).
- 10 square feet of flashing associated with the truck dock roof system (HA38);
- 48,200 square feet of membrane associated with the main roof system (HA39); and
- 100 square feet of flashing associated with the main roof system (HA40).

The laboratory reported asbestos was not detected in the samples collected from the remaining suspect ACMs identified during the assessment.

Refer to **Appendix B** for additional regulatory information regarding regulatory notification, training, and work practices requirements for ACMs, assumed ACMs, and trace asbestos materials.

3. LEAD-BASED AND CADMIUM BASED PAINTS

3.1 VISUAL ASSESSMENT AND SAMPLING PROCEDURES

On January 13 and 15, 2021, we conducted a visual assessment to identify painted surfaces in the building. We collected 3 chip samples of paints suspected to be lead-bearing or cadmium-bearing coatings. We submitted the paint-chip samples to IATL, which is accredited by the American Industrial Hygiene Association (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP), for lead and cadmium analysis of the paint chip samples via atomic absorption spectrophotometry (AAS).

3.2 FINDINGS AND CONCLUSIONS

Lead was measured at concentrations above laboratory reporting limits in each of the three samples of paints collected. Cadmium was measured at concentrations above laboratory reporting limits in one (P3) of the three samples of paints collected The Chain-of-Custody forms and analytical data for the paint chip samples are included in **Appendix C** of this report. A summary of the descriptions of lead-bearing and cadmium-bearing paints, paint locations, as well as lead and cadmium content of the paint chip samples are presented in Table 2.

The OSHA Lead Exposure in Construction Standard (29 CFR Part 1926.62) and OSHA Cadmium Construction Standard (29 CFR Part 1926.1127) are applicable to construction activities when lead or cadmium are present regardless of their concentrations in the paints. If lead-bearing or cadmium-bearing paints are subjected to demolition forces that may cause paint particles to become airborne, unacceptable levels of lead and cadmium exposure to on-site personnel and environmental contamination could result. These paints could pose inhalation or ingestion exposure hazards if subjected to torch cutting, welding, and burning or if pulverized and converted to dust.

If lead-bearing and cadmium-bearing coatings or paints are to be removed by manual demolition of structural surfaces, manual scraping, manual sanding, heat gun applications, power tool cleaning, torch cutting, or welding, then the employees must be trained, and exposures must be assessed, in accordance with the OSHA Lead Exposure in Construction Standard and OSHA Cadmium Construction Standard. When lead or cadmium is present at any concentration, employers are required to assess their workers' exposures to airborne lead dust/fumes. The employer must perform an employee exposure assessment to determine if any employee is exposed at or above the action level of 30 micrograms of lead per cubic meter ($\mu g/m^3$) or 2.5 $\mu g/m^3$ cadmium, of air sampled calculated as a time-weighted average (TWA).

This exposure assessment is typically performed by conducting air monitoring in the workers' breathing zones during activities that would disturb surfaces containing lead or cadmium. In lieu of air monitoring, OSHA allows employers to use other objective data to assess their workers' exposures. Until an exposure assessment is completed and results demonstrate that employee exposures are consistently below the action level, the employer must provide interim protection in accordance with the standard.

4. REGULATED MATERIALS AND UNIVERSAL WASTES

On January 13 and 15, 2021, we conducted a visual assessment to identify regulated materials and universal wastes in the building. A summary of the various regulated materials and universal wastes we observed during our assessment is presented below.

4.1 POLYCHLORINATED BIPHENYLS (PCBs)

We noted commonly known sources of PCBs at the project site (such as transformer, capacitor, or compressor oils; electric motors, and fluorescent lamp ballasts). We observed:

- 80, 4-foot, 4-bulb fluorescent light fixtures,
- 50, 4-foot, 2-bulb fluorescent light fixtures,
- One, 4-foot, 3-bulb fluorescent light fixture,
- Three, 4-foot, 1-bulb fluorescent light fixtures,
- One 8-foot, 4-bulb fluorescent light fixture,
- 20, 8-foot, 2-bulb fluorescent light fixtures, and
- 23, high intensity discharge (HID) lights in the building.

Based on the age of the building (constructed prior to 1978), ballasts in the light fixtures not affixed with a "non-PCB" label have the potential to contain PCBs.

4.2 MERCURY

We assessed the building for evidence of equipment suspected to contain mercury (such as thermostats, fluorescent light tubes, mercury vapor lamps, or gas pressure switches).

- We observed approximately 155 fluorescent fixtures throughout the building that contained approximately 470 fluorescent light tubes; and 23 bulbs in HID fixtures.
- We also observed elemental mercury switches in 10 thermostats located throughout the office areas within the building.

The fluorescent light tubes, HID bulbs, and mercury switches, if destroyed or improperly removed, can be sources of fugitive mercury emissions.

4.3 RADIOACTIVE SOURCES

We assessed the building for evidence of equipment suspected to contain radioactive material such as x-ray equipment, smoke detectors, or self-illuminated exit signs). No materials or equipment with suspected radioactive source material was observed.

4.4 CHEMICALS AND OTHER HAZARDOUS MATERIALS

Other hazardous material observed during our assessment that may require additional handling and disposal prior to demolition of the building included one above ground storage tank (AST) located in the southwest corner of the south bay. We did not access the storage tank to determine what, if any, contents were contained in the vessel.

The AST was estimated to be approximately 35,000 gallons in capacity, based on general field measurements, and constructed of steel. The contents of the AST were not determined because SME was unable to access the interior of the AST.

4.5 BIOLOGICAL HAZARDS

During our assessment, we observed no visual evidence of bird excrement, or nesting materials. We did observe water-damaged building materials, with possible evidence of mold growth within areas of the building. Biological hazards may be present in concealed areas of the building.

Removal or disturbance of accumulations of bird excrement, bird nesting materials, water-damaged materials, or mold-impacted materials could subject the workers to potential health hazards from inhalation of microbial contamination.

Water-damaged building materials may potentially contain concentrations of fungi greater than those typical for indoor environments. Mold amplification occurs when adequate nutrients, temperatures, and moisture are present for mold to sporulate, colonize and grow. If adequate moisture is present, mold amplification can occur within a matter of a few days, and mold will continue growing until the source of moisture is eliminated. Health effects associated with mold exposure may include allergic reactions, including asthma triggers, hay-fever symptoms (e.g., watery/itchy eyes, congestion, and cough), and dermal irritation in susceptible persons. Some species of mold produce mycotoxins; however, there is currently no conclusive, scientific evidence that exposure to mycotoxins in indoor environments result in health problems. More scientific research is required to better understand the health effects associated with mold and mycotoxin exposures, however, removal or disturbance of mold-impacted materials could subject the workers to potential health hazards from inhalation of microbial contamination.

Bird excrement may potentially contain fungi such as Cryptococcus neoformans, Histoplasma capsulatum or Chlamydia psittaci. These fungi, if inhaled, can produce harmful, and sometimes lethal, infections. Cryptococcosis and histoplasmosis infections typically occur by inhalation of pathogenic spores through the nose and mouth. Bird droppings are most dangerous when they are dry and subject to becoming airborne as fine dust, particularly when disturbed by dry sweeping or scraping. Safe cleanup is based on protection from spore inhalation and minimizing spore dispersal in the work area.

5. RECOMMENDATIONS

5.1 ASBESTOS

- We recommend that the asbestos-containing pipe insulations, floor tiles, and damaged window glazing material be removed by a licensed asbestos contractor, and in accordance with the OSHA Asbestos Construction Standard, prior to demolition of the building.
- In lieu of asbestos data for the assumed asbestos-containing fire doors and fire safes, we recommend these materials also be removed from the building by a licensed asbestos contractor, prior to building demolition.
- If the asbestos-containing roof system materials and wallboard systems will be removed from the building prior to demolition, we recommend that they be removed by a licensed asbestos contractor, and in accordance with the asbestos work requirements of the OSHA Asbestos Construction Standard. If one or more of these nonfriable ACMs will remain in the building during demolition, we recommend that the demolition activities be conducted by staff trained to conduct demolition involving ACMs, supervised by an Asbestos supervisor accredited by the MDLEO and conducted in accordance with the OSHA Asbestos Construction Standard. If the wallboard systems contaminated with asbestos-containing joint compound will remain in the building during demolition, the demolition activities must also be conducted by a licensed asbestos contractor.
- Regardless of the plans for building demolition, due to the presence of friable asbestos debris and dust in the areas of the asbestos-containing pipe insulations, we recommend restricting access to those areas of the building to only authorized personnel and/or prompt cleanup of the dust and debris to minimize the potential for asbestos exposure.
- We recommend proper notification to MDLEO and Michigan Department of Environment, Great Lakes, and Energy-Air Quality Division (EGLE-AQD), prior to removal of ACMs and demolition of the building.
- We recommend asbestos abatement project design by an asbestos project designer that is trained in accordance with USEPA requirements and accredited by the MDLEO. We also recommend monitoring asbestos removal work or disturbance with air sampling, visual verification, and clearance air monitoring performed by an independent third party (such as SME). We recommend notification of the presence, quantity, and location of ACMs and communication of the hazards associated with them in accordance.
- Please refer to **Appendix B** for Information regarding federal and state requirements regarding notification of work operations and work practices for activities involving ACMs and trace asbestos materials

5.2 LEAD-BEARING AND CADMIUM-BEARING PAINTS

We recommend conducting demolition activities involving painted surfaces in accordance with the requirements of OSHA Lead Exposure in Construction Standard and OSHA Cadmium Construction Standard, as applicable. We also recommend contractor personnel receive a minimum of two-hours lead and cadmium awareness training prior to working at the site.

5.3 REGULATED MATERIALS AND UNIVERSAL WASTES

Prior to demolition of the building we recommend the following with regard to the identified regulated materials and universal wastes:

- We recommend contractor personnel assess lamp ballasts for “non-PCB” labels or date codes of production. Typically, a date code is stamped on the back of the ballasts during production. Generally, ballasts manufactured prior to 1979 are presumed to potentially contain PCBs. Ballasts not affixed with “non-PCB” labels, and those produced prior to 1979, should be considered PCB ballasts. PCB-containing ballasts should be segregated from ballasts affixed with “non-PCB” labels and properly disposed or recycled by trained personnel. Personnel conducting PCB-related activities should wear appropriate personal protective equipment, and spill prevention and control measures should also be enacted for PCB cleanup activities. Potential PCB wastes should be appropriately analyzed for waste characterization purposes, removed, and disposed in accordance with USEPA 40 CFR Part 761.
- To prevent releases of mercury, we recommend intact removal of the fluorescent light tubes and mercury ampule switches containing elemental mercury prior to demolition of the building. Disposal of 350 or more fluorescent light tubes and lamps or other mercury-contaminated items, in excess of an accumulated total of 220 pounds, may constitute a regulated amount of hazardous waste that may require specific handling and disposal procedures in accordance with the Resource Conservation and Recovery Act (RCRA, 40 CFR Part 273) hazardous waste requirements or the RCRA universal waste requirements. We recommend appropriate handling methods, such as careful packaging, and transport of the mercury-containing items to a licensed disposal/recycling facility.
- We recommend that smoke detectors labeled as containing radioactive material be carefully removed intact and returned to the manufacture, or disposed a facility licensed to accept them, prior to demolition.
- We also recommend an environmental contractor properly characterize bulk product or waste material, if present, contained in the above ground storage tank, and recycle or dispose the material prior to demolition of the building.
- Contractor personnel working in the building should be advised of the potential for encountering bird droppings or mold in concealed areas of the building. Construction personnel should be informed of the potential dangers and health hazards of airborne emissions resulting from the disturbance of bird droppings or water damaged building materials and molds/fungi. Contractors should also include appropriate information, training, work procedures, and personal protective equipment use for properly removing, handling and disposing bird excrement and mold-impacted materials in their health and safety plans.

6. LIMITATIONS AND GENERAL COMMENTS

Our project team conducted limited destructive assessment of wall cavities, ceilings, floor surfaces, and other interstitial spaces of the building. However, we did not assess every wall cavity and ceiling space within the building or demolish floor surfaces. We noted that asbestos-containing pipe insulations were likely present within the interstitial spaces of the block walls of the building restrooms. We extrapolated the estimated quantities of asbestos pipe insulation material based on the number and orientation of restroom fixtures observed, but did not destroy the block walls to expose these insulations as part of our assessment effort. Additional ACMs/quantities may exist in concealed spaces such as these that were not destructively assessed. We recommend selective demolition to expose concealed spaces of the building prior to initiation of demolition activities to assess for the presence of concealed ACMs. If suspect ACMs are encountered for which no analytical data exists, we recommend the material(s) remain undisturbed until the asbestos content of the material(s) is determined in accordance with USEPA and OSHA regulations.

The quantities presented in our report are intended to be "Order of Magnitude" estimates and the estimated quantities and other information in this report should not be used as an exclusive source of information for bid formulation or for notification to regulatory agencies.

Laboratory descriptions of materials analyzed by PLM method for asbestos content were based upon the microscopists' perceptions of bulk samples that were pulverized and prepared with dispersion oils for PLM analysis. Due to the preparation of the sampled materials and the minute level of observation by the laboratory personnel, the descriptions on the Certificates of Analysis may not match the sample descriptions recorded by SME's project team in the field. Our sample descriptions and locations should be used to identify materials that were sampled and our sample numbers should be used to correlate analytical results for the sampled materials.

We based the conclusions and recommendations submitted in this report upon the scope of services noted herein. In the process of obtaining the field information presented in this report, we followed procedures that represent reasonable and accepted industrial hygiene practices and principles, in a manner consistent with that level of care and skill ordinarily exercised by members of this profession currently practicing under similar conditions. We understand that Turner-Dodge Development, LLC and the Ingham County Land Bank will rely upon the professional opinions and representations contained in this report. However, the information and opinions contained within this report are not to be construed a warranty of the conditions of this site in any way, implied or explicit. No other parties may rely upon our opinions, conclusions or reports unless we have agreed to such reliance in writing.

TABLES

TABLE 1
ASBESTOS BULK SAMPLING RESULTS
1506 N GRAND RIVER AVENUE, LANSING, MICHIGAN
SME Project Number: 083616.00

The quantities presented in this table are intended to be "Order of Magnitude" estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
1	½" bead interior window glazing; white	**ACM**	135 sq. ft. on 8'x15'- 7 pane windows	Friable	Damaged	East bay, south bay
2	CMU block mortar	NON-ACM	NQ	Nonfriable	Good	Throughout
3	Brick mortar	NON-ACM	NQ	Nonfriable	Good	East bay, south bay woman's restroom, north bay office area
4	Fire door (older sliding style)	**ASSUMED ACM**	4 doors	Nonfriable	Good	East bay, south bay, south bay boiler room
5	2'x4' pinhole, wormtrack ceiling tile; white	NON-ACM	2,170 sq. ft.	Friable	Damaged	East bay office, south bay men's restroom, north bay office area, main office area
6	12"x12" vinyl floor tile, off-white Yellow mastic	**ACM** NON-ACM	85 sq. ft.	Nonfriable	Good	East bay office
7	8'x2' fibrous pressboard ceiling panels; tan	NON-ACM	10,000 sq. ft.	Friable	Damaged	South bay, main office area
8	Concrete	NON-ACM	49,000 sq. ft.	Nonfriable	Good	Throughout
9	8"x8" ceramic floor tile with grout and bedding; red	NON-ACM	2,100 sq. ft.	Nonfriable	Good	South bay, north bay office area, northeast room off main office hallway
10	2'x4' pinhole, wormtrack ceiling tile; white	NON-ACM	2,725 sq. ft.	Friable	Damaged	South bay, south bay lunchroom, main office area

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HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
11	9"x9" vinyl floor tile; tan Black mastic	**ACM** NON-ACM	4,200 sq. ft.	Nonfriable	Good	South bay men's restroom, south bay lunchroom, south bay women's restroom, north bay office area, main office area
12	1"x1" ceramic floor tile with bedding and grout; tan	NON-ACM	500 sq. ft.	Nonfriable	Good	South bay men's restroom, south bay lunchroom, main office area men's and women's restroom
13	Wallboard wall system White sheetrock White joint compound White woven material Composite	NON-ACM **ACM** NON-ACM **Trace**	350 sq. ft.	Nonfriable	Good	South bay men's restroom, main entrance to building
14	4" cove base; brown	NON-ACM	130 sq. ft.	Nonfriable	Good	South bay men's restroom, south bay lunchroom, north bay office area, main office area

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HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
15	Wallboard ceiling system White sheetrock White joint compound White tape Composite	 NON-ACM **ACM** NON-ACM **Trace**	350 sq. ft.	Nonfriable	Good	South bay women's restroom, main office area (room just southeast of main entrance)
16	Fire door (regular new style)	**ASSUMED ACM**	1 door	Nonfriable	Good	South bay women's restroom
17	Terrazzo flooring	NON-ACM	600 sq. ft.	Nonfriable	Good	North bay office area
18	1'x1' ceramic wall tile with grout and bedding; tan	NON-ACM	340 sq. ft.	Nonfriable	Good	North bay office area
19	2'x4' ceiling tile; flat white	NON-ACM	880 sq. ft.	Friable	Good	Northeast room of main office hallway
20	Wall panel mastic; brown	NON-ACM	1,370 sq. ft.	Nonfriable	Good	Main office area
21	Plasterboard wall system White plaster Gray plaster White sheetrock	 NON-ACM NON-ACM NON-ACM	6,300 sq. ft.	Nonfriable	Good	Main office area
22	4" cove base; light tan	NON-ACM	100 sq. ft.	Nonfriable	Good	Main office area
23	Carpet mastic; tan	NON-ACM	550 sq. ft.	Nonfriable	Good	Main office area
24	1'x1' pinhole ceiling tile; white	NON-ACM	400 sq. ft.	Friable	Damaged	Main office area

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HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
25	1'x1' ceramic wall tile with grout and bedding; pink	NON-ACM	350 sq. ft.	Nonfriable	Good	Main office area men's and women's restroom
26	Thermal systems insulation corrugated cardboard on 3" straight lines; white	**ACM**	650 ln. ft.	Friable	Significantly damaged	South bay, east bay, south office area, and restrooms
27	Thermal systems insulation mudded fittings on 3" corrugated cardboard lines; white	**ACM**	35 fittings	Friable	Significantly damaged	South bay, east bay, south office area, and restrooms
28	Thermal systems insulation layered paper on 3" straight lines; white	**ACM**	220 ln. ft.	Friable	Significantly damaged	South bay, east bay, south office area, and restrooms
29	Thermal systems insulation mudded fittings on 3" layered paper lines; white	**ACM**	3 fittings	Friable	Significantly damaged	South bay and east bay
30	Thermal systems insulation corrugated cardboard on 4" straight lines; white	**ACM**	740 ln. ft.	Friable	Significantly damaged	South bay, east bay, south office area, and restrooms

TABLE 1
ASBESTOS BULK SAMPLING RESULTS
1506 N GRAND RIVER AVENUE, LANSING, MICHIGAN
SME Project Number: 083616.00

The quantities presented in this table are intended to be "Order of Magnitude" estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
31	Thermal systems insulation mudded fittings on 4" corrugated cardboard lines; white	**ACM**	65 fittings	Friable	Significantly damaged	South bay, east bay, south office area, and restrooms
32	Thermal systems insulation corrugated cardboard on 8" straight lines; white	**ACM**	280 ln. ft.	Friable	Significantly damaged	South bay, east bay, south office area, and restrooms
33	Thermal systems insulation mudded fittings on 8" corrugated cardboard lines; white	**ACM**	14 fittings	Friable	Significantly damaged	South bay, east bay, south office area, and restrooms
34	Thermal systems insulation; 6'x4' tank insulation	**ACM**	15 sq. ft.	Friable	Good	South bay above women's restroom
35	Safe insulation	**ASSUMED ACM**	2 safes	Nonfriable	Good	Main office area (room just southeast of main entrance)
36	Fibrous insulation	NON-ACM	550 sq. ft.	Friable	Damaged	East bay at 8'x15' size windows
37	Rubber membrane roofing system (truck dock)	**ACM**	70 sq. ft.	Nonfriable	Good	Exterior truck dock roof
38	Roofing caulk (truck dock)	**ACM**	10 sq. ft.	Nonfriable	Good	Exterior truck dock roof
39	Rubber membrane roofing system (main roof)	**ACM**	48,200 sq. ft.	Nonfriable	Damaged	Exterior main roof

TABLE 1
ASBESTOS BULK SAMPLING RESULTS
1506 N GRAND RIVER AVENUE, LANSING, MICHIGAN
SME Project Number: 083616.00

The quantities presented in this table are intended to be "Order of Magnitude" estimates. The estimated quantities should not be used by contractors as an exclusive source of information for bid formulation or for notification to regulatory agencies.

HA#	MATERIAL DESCRIPTION	ACM/ NON-ACM	ESTIMATED QUANTITY*	FRIABLE/ NONFRIABLE	CONDITION	LOCATION
40	Roofing caulk (main roof)	**ACM**	100 sq. ft.	Nonfriable	Good	Exterior main roof

NOTES:
HA = Homogenous Area.
ACM = Asbestos-Containing Material as defined by USEPA and OSHA definition.
Friable = Material that can be crumbled or reduced to powder by hand pressure.
NQ = Not quantified
Material conditions are described as defined in AHERA, 40 CFR Part 763.
ln. ft. = linear feet
sq. ft. = square feet
* = Estimate of visible, accessible materials. Additional quantities and materials may be present in concealed spaces not assessed.

TABLE 2 PAINT CHIP SAMPLING RESULTS 1506 N GRAND RIVER AVENUE, LANSING, MICHIGAN SME Project Number: 083616.00			
Paint #	**MATERIAL DESCRIPTION**	**LEAD % by weight**	**CADMIUM % by weight**
P1	White (Interior); throughout	**0.0071**	<0.0018
P2	Cream (Interior); throughout	**0.090**	<0.0014
P3	Yellow (Interior); east bay concrete walls	**4.9**	**0.0011**

*. Matrix/Substrate interference possible

** Insufficient sample to provide QC reanalysis

*** Not enough sample for analysis

APPENDIX A

ASBESTOS SAMPLE CERTIFICATES OF ANALYSIS AND CHAIN OF CUSTODY FORMS

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers Inc.-102
43980 Plymouth Oaks Blvd
Plymouth MI 48170

Client: SOI102

Report Date: 1/31/2021
Report No.: 627155 - PLM
Project: Lansing Coca Cola Plant
Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134384 | **Analyst Observation:** White Glazing | **Location:** East Bay, Along East Wall
Client No.: HA1-A | **Client Description:** 1/2" Bead Interior Window Glazing, White | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
PC 2.4 *Chrysotile*	None Detected	97.6

Lab No.: 7134385 | **Analyst Observation:** Sample Not Analyzed | **Location:** East Bay, Along South Wall
Client No.: HA1-B | **Client Description:** 1/2" Bead Interior Window Glazing, White | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
Sample Not Analyzed	Sample Not Analyzed	

Lab No.: 7134386 | **Analyst Observation:** Grey/White Block | **Location:** North Bay
Client No.: HA2-A | **Client Description:** CMU Block And Mortar | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134386(L2) | **Analyst Observation:** Grey Mortar | **Location:** North Bay
Client No.: HA2-A | **Client Description:** CMU Block And Mortar | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134387 | **Analyst Observation:** Grey/White Block | **Location:** South Bay
Client No.: HA2-B | **Client Description:** CMU Block And Mortar | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134387(L2) | **Analyst Observation:** Grey Mortar | **Location:** South Bay
Client No.: HA2-B | **Client Description:** CMU Block And Mortar | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/22/2021
Date Analyzed: 01/30/2021
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Report Date: 1/31/2021
Report No.: 627155 - PLM
Project: Lansing Coca Cola Plant
Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134388
Client No.: HA3-A

Analyst Observation: Grey Mortar
Client Description: Brick Mortar

Location: East Bay, At Northeast Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7134389
Client No.: HA3-B

Analyst Observation: Grey Mortar
Client Description: Brick Mortar

Location: East Bay, At Northeast Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7134390
Client No.: HA5-A

Analyst Observation: White/Brown Ceiling Tile
Client Description: 2x4 Pinhole, Wormtrack Ceiling Tile, White

Location: East Bay Office
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
95 Cellulose

Percent Non-Fibrous Material:
5

Lab No.: 7134391
Client No.: HA5-B

Analyst Observation: White/Brown Ceiling Tile
Client Description: 2x4 Pinhole, Wormtrack Ceiling Tile, White

Location: East Bay Office
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
95 Cellulose

Percent Non-Fibrous Material:
5

Lab No.: 7134392
Client No.: HA6-A

Analyst Observation: Off-White/Tan Floor Tile
Client Description: 12x12 Vinyl Floor Tile, Off-White With Yellow Mastic

Location: East Bay Office
Facility:

Percent Asbestos:
PC 3.5 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
96.5

Lab No.: 7134392(L2)
Client No.: HA6-A

Analyst Observation: Yellow Mastic
Client Description: 12x12 Vinyl Floor Tile, Off-White With Yellow Mastic

Location: East Bay Office
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/22/2021
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Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134393
Client No.: HA6-B

Analyst Observation: Sample Not Analyzed
Client Description: 12x12 Vinyl Floor Tile, Off-White With Yellow Mastic

Location: East Bay Office
Facility:

Percent Asbestos:
Sample Not Analyzed

Percent Non-Asbestos Fibrous Material:
Sample Not Analyzed

Percent Non-Fibrous Material:

Lab No.: 7134393(L2)
Client No.: HA6-B

Analyst Observation: Yellow Mastic
Client Description: 12x12 Vinyl Floor Tile, Off-White With Yellow Mastic

Location: East Bay Office
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7134394
Client No.: HA7-A

Analyst Observation: White/Tan Ceiling Panel
Client Description: 8x2 Fibrous Pressboard Ceiling Panels, Tan

Location: South Bay, On Ground
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
98 Cellulose

Percent Non-Fibrous Material:
2

Lab No.: 7134395
Client No.: HA7-B

Analyst Observation: White/Tan Ceiling Panel
Client Description: 8x2 Fibrous Pressboard Ceiling Panels, Tan

Location: South Bay, On Ground
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
95 Cellulose

Percent Non-Fibrous Material:
5

Lab No.: 7134396
Client No.: HA8-A

Analyst Observation: Grey Concrete
Client Description: Concrete

Location: East Bay
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7134397
Client No.: HA8-B

Analyst Observation: Grey Concrete
Client Description: Concrete

Location: North Bay
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/22/2021
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Signature:
Analyst: Linda Price

Approved By:
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Report Date: 1/31/2021
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Project: Lansing Coca Cola Plant
Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134398
Client No.: HA9-A
Analyst Observation: Red Ceramic
Client Description: 8x8 Ceramic Floor Tile With Grout And Bedding, Red
Location: North Bay Office Area
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134398(L2)
Client No.: HA9-A
Analyst Observation: Brown Grout
Client Description: 8x8 Ceramic Floor Tile With Grout And Bedding, Red
Location: North Bay Office Area
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134398(L3)
Client No.: HA9-A
Analyst Observation: Black Underlayment
Client Description: 8x8 Ceramic Floor Tile With Grout And Bedding, Red
Location: North Bay Office Area
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134399
Client No.: HA9-B
Analyst Observation: Red Ceramic
Client Description: 8x8 Ceramic Floor Tile With Grout And Bedding, Red
Location: South Bay
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134399(L2)
Client No.: HA9-B
Analyst Observation: Brown Grout
Client Description: 8x8 Ceramic Floor Tile With Grout And Bedding, Red
Location: South Bay
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134399(L3)
Client No.: HA9-B
Analyst Observation: Black Underlayment
Client Description: 8x8 Ceramic Floor Tile With Grout And Bedding, Red
Location: South Bay
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/22/2021
Date Analyzed: 01/30/2021
Signature:
Analyst: Linda Price

Approved By:
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Client: SOI102

Report Date: 1/31/2021
Report No.: 627155 - PLM
Project: Lansing Coca Cola Plant
Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134400
Client No.: HA10-A

Analyst Observation: White/Tan Ceiling Tile
Client Description: 2x4 Pinhole, Wormtrack Ceiling Tile, White

Location: At Main Entrance To Bldg
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
50 Cellulose
25 Mineral Wool

Percent Non-Fibrous Material:
25

Lab No.: 7134401
Client No.: HA10-B

Analyst Observation: White/Tan Ceiling Tile
Client Description: 2x4 Pinhole, Wormtrack Ceiling Tile, White

Location: South Bay, Lunch Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
45 Cellulose
20 Mineral Wool

Percent Non-Fibrous Material:
35

Lab No.: 7134402
Client No.: HA11-A

Analyst Observation: Tan Floor Tile
Client Description: 9x9 Vinyl Floor Tile, Tan With Black Mastic

Location: Main Entryway To Bldg
Facility:

Percent Asbestos:
PC 2.8 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
97.2

Lab No.: 7134402(L2)
Client No.: HA11-A

Analyst Observation: Black/Tan Mastic
Client Description: 9x9 Vinyl Floor Tile, Tan With Black Mastic

Location: Main Entryway To Bldg
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7134403
Client No.: HA11-B

Analyst Observation: Sample Not Analyzed
Client Description: 9x9 Vinyl Floor Tile, Tan With Black Mastic

Location: South Bay, Men's Restroom
Facility:

Percent Asbestos:
Sample Not Analyzed

Percent Non-Asbestos Fibrous Material:
Sample Not Analyzed

Percent Non-Fibrous Material:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/22/2021
Date Analyzed: 01/30/2021
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
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Client: SOI102

Report Date: 1/31/2021
Report No.: 627155 - PLM
Project: Lansing Coca Cola Plant
Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134403(L2)
Client No.: HA11-B
Analyst Observation: Black Mastic
Client Description: 9x9 Vinyl Floor Tile, Tan With Black Mastic
Location: South Bay, Men's Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134404
Client No.: HA12-A
Analyst Observation: Tan Ceramic
Client Description: 1x1 Ceramic Floor Tile With Bedding And Grout, Tan
Location: Main Office Area, Woman's Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134404(L2)
Client No.: HA12-A
Analyst Observation: Grey Grout
Client Description: 1x1 Ceramic Floor Tile With Bedding And Grout, Tan
Location: Main Office Area, Woman's Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134404(L3)
Client No.: HA12-A
Analyst Observation: Yellow/Tan Mastic / Paper
Client Description: 1x1 Ceramic Floor Tile With Bedding And Grout, Tan
Location: Main Office Area, Woman's Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	65 Cellulose	35

Lab No.: 7134404(L4)
Client No.: HA12-A
Analyst Observation: Grey Leveling Compound
Client Description: 1x1 Ceramic Floor Tile With Bedding And Grout, Tan
Location: Main Office Area, Woman's Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134405
Client No.: HA12-B
Analyst Observation: Tan Ceramic
Client Description: 1x1 Ceramic Floor Tile With Bedding And Grout, Tan
Location: South Bay, Men's Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/22/2021
Date Analyzed: 01/30/2021
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers Inc.-102
43980 Plymouth Oaks Blvd
Plymouth MI 48170

Client: SOI102

Report Date: 1/31/2021
Report No.: 627155 - PLM
Project: Lansing Coca Cola Plant
Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134405(L2)
Client No.: HA12-B
Analyst Observation: Grey Grout
Client Description: 1x1 Ceramic Floor Tile With Bedding And Grout, Tan
Location: South Bay, Men's Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134405(L3)
Client No.: HA12-B
Analyst Observation: Yellow Mastic
Client Description: 1x1 Ceramic Floor Tile With Bedding And Grout, Tan
Location: South Bay, Men's Restroom
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134406
Client No.: HA13-A
Analyst Observation: White/Brown Drywall
Client Description: Wallboard Wall System
Location: Main Office Area, At Main Entryway To Bldg, In Northeast Corner
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	12 Cellulose	88

Lab No.: 7134406(L2)
Client No.: HA13-A
Analyst Observation: White Joint Compound
Client Description: Wallboard Wall System
Location: Main Office Area, At Main Entryway To Bldg, In Northeast Corner
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134406(L3)
Client No.: HA13-A
Analyst Observation: White Woven Material
Client Description: Wallboard Wall System
Location: Main Office Area, At Main Entryway To Bldg, In Northeast Corner
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	90 Fibrous Glass	10

Lab No.: 7134406(L4)
Client No.: HA13-A
Analyst Observation: White Plaster
Client Description: Wallboard Wall System
Location: Main Office Area, At Main Entryway To Bldg, In Northeast Corner
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	85

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/22/2021
Date Analyzed: 01/30/2021
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Client: SOI102

Report Date: 1/31/2021
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Project: Lansing Coca Cola Plant
Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134407
Client No.: HA13-B

Analyst Observation: White/Brown Drywall
Client Description: Wallboard Wall System

Location: Main Office Area, At Main Entryway To Bldg, In Southeast Corner
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
12 Cellulose

Percent Non-Fibrous Material:
88

Lab No.: 7134407(L2)
Client No.: HA13-B

Analyst Observation: White Joint Compound
Client Description: Wallboard Wall System

Location: Main Office Area, At Main Entryway To Bldg, In Southeast Corner
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7134407(L3)
Client No.: HA13-B

Analyst Observation: White Woven Material
Client Description: Wallboard Wall System

Location: Main Office Area, At Main Entryway To Bldg, In Southeast Corner
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
90 Fibrous Glass

Percent Non-Fibrous Material:
10

Lab No.: 7134408
Client No.: HA13-C

Analyst Observation: White/Brown Drywall
Client Description: Wallboard Wall System

Location: South Bay, Men's Restroom
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
12 Cellulose

Percent Non-Fibrous Material:
88

Lab No.: 7134408(L2)
Client No.: HA13-C

Analyst Observation: Tan Joint Compound
Client Description: Wallboard Wall System

Location: South Bay, Men's Restroom
Facility:

Percent Asbestos:
PC 1.3 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.7

Lab No.: 7134408(L3)
Client No.: HA13-C

Analyst Observation: Off-White Tape
Client Description: Wallboard Wall System

Location: South Bay, Men's Restroom
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
100 Cellulose

Percent Non-Fibrous Material:
None Detected

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/22/2021
Date Analyzed: 01/30/2021
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
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Report Date: 1/31/2021
Report No.: 627155 - PLM
Project: Lansing Coca Cola Plant
Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134408(L4)
Client No.: HA13-C
Analyst Observation: Composite
Client Description: Wallboard Wall System
Location: South Bay, Men's Restroom
Facility:

Percent Asbestos:
PC Trace *Chrysotile*

Percent Non-Asbestos Fibrous Material:
25 Cellulose

Percent Non-Fibrous Material:
75

Lab No.: 7134409
Client No.: HA14-A
Analyst Observation: Brown Cove Base
Client Description: 4" Cove Base, Brown
Location: South Bay, Men's Restroom
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7134409(L2)
Client No.: HA14-A
Analyst Observation: Brown Mastic
Client Description: 4" Cove Base, Brown
Location: South Bay, Men's Restroom
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7134410
Client No.: HA14-B
Analyst Observation: Brown Cove Base
Client Description: 4" Cove Base, Brown
Location: South Bay, Lunch Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7134410(L2)
Client No.: HA14-B
Analyst Observation: Brown Mastic
Client Description: 4" Cove Base, Brown
Location: South Bay, Lunch Rm
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7134411
Client No.: HA15-A
Analyst Observation: White/Brown Drywall
Client Description: Wallboard Ceiling System
Location: South Bay, West Restroom
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
12 Cellulose

Percent Non-Fibrous Material:
88

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Approved By:
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CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers Inc.-102
43980 Plymouth Oaks Blvd
Plymouth MI 48170

Client: SOI102

Report Date: 1/31/2021
Report No.: 627155 - PLM
Project: Lansing Coca Cola Plant
Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134411(L2) **Analyst Observation:** Tan Joint Compound **Location:** South Bay, West Restroom
Client No.: HA15-A **Client Description:** Wallboard Ceiling System **Facility:**

Percent Asbestos: ***PC 1.5*** *Chrysotile*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 98.5

Lab No.: 7134411(L3) **Analyst Observation:** Composite **Location:** South Bay, West Restroom
Client No.: HA15-A **Client Description:** Wallboard Ceiling System **Facility:**

Percent Asbestos: ***PC Trace*** *Chrysotile*
Percent Non-Asbestos Fibrous Material: 10 Cellulose
Percent Non-Fibrous Material: 90

Lab No.: 7134411(L4) **Analyst Observation:** Brown Wood **Location:** South Bay, West Restroom
Client No.: HA15-A **Client Description:** Wallboard Ceiling System **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 80 Cellulose
Percent Non-Fibrous Material: 20

Lab No.: 7134411(L5) **Analyst Observation:** Lt Grey Non-Fibrous **Location:** South Bay, West Restroom
Client No.: HA15-A **Client Description:** Wallboard Ceiling System **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134412 **Analyst Observation:** White/Brown Drywall **Location:** South Bay, West Restroom
Client No.: HA15-B **Client Description:** Wallboard Ceiling System **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 15 Cellulose
Percent Non-Fibrous Material: 85

Lab No.: 7134412(L2) **Analyst Observation:** Tan Joint Compound **Location:** South Bay, West Restroom
Client No.: HA15-B **Client Description:** Wallboard Ceiling System **Facility:**

Percent Asbestos: ***PC 1.7*** *Chrysotile*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 98.3

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Report No.: 627155 - PLM
Project: Lansing Coca Cola Plant
Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134412(L3) **Analyst Observation:** Off-White Tape **Location:** South Bay, West Restroom
Client No.: HA15-B **Client Description:** Wallboard Ceiling System **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	100 Cellulose	None Detected

Lab No.: 7134412(L4) **Analyst Observation:** Composite **Location:** South Bay, West Restroom
Client No.: HA15-B **Client Description:** Wallboard Ceiling System **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
PC Trace *Chrysotile*	20 Cellulose	80

Lab No.: 7134413 **Analyst Observation:** White/Brown Drywall **Location:** South Bay, West Restroom
Client No.: HA15-C **Client Description:** Wallboard Ceiling System **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	15 Cellulose	85

Lab No.: 7134413(L2) **Analyst Observation:** Tan Joint Compound **Location:** South Bay, West Restroom
Client No.: HA15-C **Client Description:** Wallboard Ceiling System **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
PC 1.4 *Chrysotile*	None Detected	98.6

Lab No.: 7134413(L3) **Analyst Observation:** Composite **Location:** South Bay, West Restroom
Client No.: HA15-C **Client Description:** Wallboard Ceiling System **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
PC Trace *Chrysotile*	13 Cellulose	87

Lab No.: 7134414 **Analyst Observation:** Tan Terrazzo **Location:** North Bay, Office Area
Client No.: HA17-A **Client Description:** Terrazzo Flooring **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

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Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134414(L2) **Analyst Observation:** Grey Mortar **Location:** North Bay, Office Area
Client No.: HA17-A **Client Description:** Terrazzo Flooring **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134415 **Analyst Observation:** Tan Terrazzo **Location:** North Bay, Office Area
Client No.: HA17-B **Client Description:** Terrazzo Flooring **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134415(L2) **Analyst Observation:** Grey Mortar **Location:** North Bay, Office Area
Client No.: HA17-B **Client Description:** Terrazzo Flooring **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134416 **Analyst Observation:** Tan Ceramic **Location:** North Bay, Office Area, North Half Of Office
Client No.: HA18-A **Client Description:** 1x1 Ceramic Wall Tile With Grout And Bedding, Tan **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134416(L2) **Analyst Observation:** White Grout **Location:** North Bay, Office Area, North Half Of Office
Client No.: HA18-A **Client Description:** 1x1 Ceramic Wall Tile With Grout And Bedding, Tan **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134416(L3) **Analyst Observation:** Tan Mastic **Location:** North Bay, Office Area, North Half Of Office
Client No.: HA18-A **Client Description:** 1x1 Ceramic Wall Tile With Grout And Bedding, Tan **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134417
Client No.: HA18-B

Analyst Observation: Tan Ceramic
Client Description: 1x1 Ceramic Wall Tile With Grout And Bedding, Tan

Location: North Bay, Office Area, South Half Of Office
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134417(L2)
Client No.: HA18-B

Analyst Observation: White Grout
Client Description: 1x1 Ceramic Wall Tile With Grout And Bedding, Tan

Location: North Bay, Office Area, South Half Of Office
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134417(L3)
Client No.: HA18-B

Analyst Observation: Brown Mastic
Client Description: 1x1 Ceramic Wall Tile With Grout And Bedding, Tan

Location: North Bay, Office Area, South Half Of Office
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134418
Client No.: HA19-A

Analyst Observation: White/Tan Ceiling Tile
Client Description: 2x4 Ceiling Tile, Flat White

Location: Main Office Area, Far Northeast Rm Of Main Hallway
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
45 Cellulose
35 Mineral Wool

Percent Non-Fibrous Material:
20

Lab No.: 7134419
Client No.: HA19-B

Analyst Observation: White/Tan Ceiling Tile
Client Description: 2x4 Ceiling Tile, Flat White

Location: Main Office Area, Far Northeast Rm Of Main Hallway
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
40 Cellulose
30 Mineral Wool

Percent Non-Fibrous Material:
30

Lab No.: 7134420
Client No.: HA20-A

Analyst Observation: Brown Mastic
Client Description: Wall Panel Mastic, Brown

Location: Main Office Area, Office Just North Of Main Entrance
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7134421
Client No.: HA20-B

Analyst Observation: Brown Mastic
Client Description: Wall Panel Mastic, Brown

Location: Main Office Area, Office Just South Of Main Entrance
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7134422
Client No.: HA21-A

Analyst Observation: White Plaster
Client Description: Plasterboard Wall System

Location: Lobby At Main Entrance To Bldg, At South Wall
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134422(L2)
Client No.: HA21-A

Analyst Observation: Grey Plaster
Client Description: Plasterboard Wall System

Location: Lobby At Main Entrance To Bldg, At South Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	2 Hair	98

Lab No.: 7134422(L3)
Client No.: HA21-A

Analyst Observation: White/Brown Drywall
Client Description: Plasterboard Wall System

Location: Lobby At Main Entrance To Bldg, At South Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	15 Cellulose	85

Lab No.: 7134423
Client No.: HA21-B

Analyst Observation: White Plaster
Client Description: Plasterboard Wall System

Location: Main Office Area, Furnace Rm
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134423(L2)
Client No.: HA21-B

Analyst Observation: Grey Plaster
Client Description: Plasterboard Wall System

Location: Main Office Area, Furnace Rm
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	2 Hair	98

Lab No.: 7134424
Client No.: HA21-C

Analyst Observation: White Plaster
Client Description: Plasterboard Wall System

Location: Main Office Area, Men's Restroom, Along South Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134424(L2)
Client No.: HA21-C

Analyst Observation: Grey Plaster
Client Description: Plasterboard Wall System

Location: Main Office Area, Men's Restroom, Along South Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	3 Hair	97

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Client: SOI102

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Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134424(L3)
Client No.: HA21-C
Analyst Observation: White/Brown Drywall
Client Description: Plasterboard Wall System
Location: Main Office Area, Men's Restroom, Along South Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	15 Cellulose	85

Lab No.: 7134425
Client No.: HA21-D
Analyst Observation: White Plaster
Client Description: Plasterboard Wall System
Location: Main Office Area, Far Southwest Rm, Along North Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134425(L2)
Client No.: HA21-D
Analyst Observation: Grey Plaster
Client Description: Plasterboard Wall System
Location: Main Office Area, Far Southwest Rm, Along North Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	2 Hair	98

Lab No.: 7134425(L3)
Client No.: HA21-D
Analyst Observation: White/Brown Drywall
Client Description: Plasterboard Wall System
Location: Main Office Area, Far Southwest Rm, Along North Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	15 Cellulose	85

Lab No.: 7134426
Client No.: HA21-E
Analyst Observation: White Plaster
Client Description: Plasterboard Wall System
Location: Main Office Area, Women's Restroom, Along South Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134426(L2)
Client No.: HA21-E
Analyst Observation: Grey Plaster
Client Description: Plasterboard Wall System
Location: Main Office Area, Women's Restroom, Along South Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	1 Hair	99

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Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134426(L3)
Client No.: HA21-E

Analyst Observation: White/Brown Drywall
Client Description: Plasterboard Wall System

Location: Main Office Area, Women's Restroom, Along South Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	12 Cellulose	88

Lab No.: 7134427
Client No.: HA21-F

Analyst Observation: White Plaster
Client Description: Plasterboard Wall System

Location: Main Office Area, Far East Office, Along South Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134427(L2)
Client No.: HA21-F

Analyst Observation: Grey Plaster
Client Description: Plasterboard Wall System

Location: Main Office Area, Far East Office, Along South Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	1 Hair	99

Lab No.: 7134427(L3)
Client No.: HA21-F

Analyst Observation: White/Brown Drywall
Client Description: Plasterboard Wall System

Location: Main Office Area, Far East Office, Along South Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	15 Cellulose	85

Lab No.: 7134428
Client No.: HA21-G

Analyst Observation: White Plaster
Client Description: Plasterboard Wall System

Location: Main Office Area, In Main Hallway, Along Southwest Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134428(L2)
Client No.: HA21-G

Analyst Observation: Grey Plaster
Client Description: Plasterboard Wall System

Location: Main Office Area, In Main Hallway, Along Southwest Wall
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	2 Hair	98

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Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134428(L3)
Client No.: HA21-G
Analyst Observation: Brown Paper
Client Description: Plasterboard Wall System
Location: Main Office Area, In Main Hallway, Along Southwest Wall
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 98 Cellulose
Percent Non-Fibrous Material: 2

Lab No.: 7134429
Client No.: HA22-A
Analyst Observation: Lt Tan Cove Base
Client Description: 4" Cove Base, Light Tan
Location: Main Office Area
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134429(L2)
Client No.: HA22-A
Analyst Observation: Yellow Mastic
Client Description: 4" Cove Base, Light Tan
Location: Main Office Area
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134430
Client No.: HA22-B
Analyst Observation: Lt Tan Cove Base
Client Description: 4" Cove Base, Light Tan
Location: Main Office Area
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134430(L2)
Client No.: HA22-B
Analyst Observation: Yellow Mastic
Client Description: 4" Cove Base, Light Tan
Location: Main Office Area
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7134431
Client No.: HA23-A
Analyst Observation: Tan Mastic
Client Description: Carpet Mastic, Tan
Location: Main Office Area, Office Just South Of Main Entrance To Bldg
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134432 **Client No.:** HA23-B	**Analyst Observation:** Tan Mastic **Client Description:** Carpet Mastic, Tan	**Location:** Main Office Area, Office Just South Of Main Entrance To Bldg **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 7134433 **Client No.:** HA24-A	**Analyst Observation:** White/Brown Ceiling Tile **Client Description:** 1x1 Pinhole Ceiling Tile, White	**Location:** Main Office Area, Office Just South Of Main Entrance To Bldg **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: 90 Cellulose	Percent Non-Fibrous Material: 10
Lab No.: 7134434 **Client No.:** HA24-B	**Analyst Observation:** White/Brown Ceiling Tile **Client Description:** 1x1 Pinhole Ceiling Tile, White	**Location:** Main Office Area, Office Just South Of Main Entrance To Bldg **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: 95 Cellulose	Percent Non-Fibrous Material: 5
Lab No.: 7134435 **Client No.:** HA25-A	**Analyst Observation:** Pink Ceramic **Client Description:** 1x1 Ceramic Wall Tile With Grout And Bedding, Pink	**Location:** Main Office Area Men's Restroom **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 7134435(L2) **Client No.:** HA25-A	**Analyst Observation:** White Grout **Client Description:** 1x1 Ceramic Wall Tile With Grout And Bedding, Pink	**Location:** Main Office Area Men's Restroom **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 7134435(L3) **Client No.:** HA25-A	**Analyst Observation:** Tan Mastic **Client Description:** 1x1 Ceramic Wall Tile With Grout And Bedding, Pink	**Location:** Main Office Area Men's Restroom **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/22/2021
Date Analyzed: 01/31/2021
Signature:
Analyst: Linda Price

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers Inc.-102
43980 Plymouth Oaks Blvd
Plymouth MI 48170

Client: SOI102

Report Date: 1/31/2021
Report No.: 627155 - PLM
Project: Lansing Coca Cola Plant
Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134436 **Client No.:** HA25-B	**Analyst Observation:** Pink Ceramic **Client Description:** 1x1 Ceramic Wall Tile With Grout And Bedding, Pink	**Location:** Main Office Area Women's Restroom **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 7134436(L2) **Client No.:** HA25-B	**Analyst Observation:** White Grout **Client Description:** 1x1 Ceramic Wall Tile With Grout And Bedding, Pink	**Location:** Main Office Area Women's Restroom **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 7134436(L3) **Client No.:** HA25-B	**Analyst Observation:** Tan Mastic **Client Description:** 1x1 Ceramic Wall Tile With Grout And Bedding, Pink	**Location:** Main Office Area Women's Restroom **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 7134437 **Client No.:** HA26-A	**Analyst Observation:** White/Grey Insulation **Client Description:** Thermal Systems Insulation Corrugated Cardboard On 3" Straight Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: ***70*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 30
Lab No.: 7134438 **Client No.:** HA26-B	**Analyst Observation:** Sample Not Analyzed **Client Description:** Thermal Systems Insulation Corrugated Cardboard On 3" Straight Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: *Sample Not Analyzed*	Percent Non-Asbestos Fibrous Material: Sample Not Analyzed	Percent Non-Fibrous Material:
Lab No.: 7134439 **Client No.:** HA26-C	**Analyst Observation:** Sample Not Analyzed **Client Description:** Thermal Systems Insulation Corrugated Cardboard On 3" Straight Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: *Sample Not Analyzed*	Percent Non-Asbestos Fibrous Material: Sample Not Analyzed	Percent Non-Fibrous Material:

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134440 **Client No.:** HA27-A	**Analyst Observation:** White/Brown Wrap / Insulation **Client Description:** Thermal Systems Insulation Mudded Fittings On 3" Corrugated Cardboard Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: ***55*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: 10 Cellulose 30 Mineral Wool	Percent Non-Fibrous Material: 5
Lab No.: 7134441 **Client No.:** HA27-B	**Analyst Observation:** Sample Not Analyzed **Client Description:** Thermal Systems Insulation Mudded Fittings On 3" Corrugated Cardboard Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: *Sample Not Analyzed*	Percent Non-Asbestos Fibrous Material: Sample Not Analyzed	Percent Non-Fibrous Material:
Lab No.: 7134442 **Client No.:** HA27-C	**Analyst Observation:** Sample Not Analyzed **Client Description:** Thermal Systems Insulation Mudded Fittings On 3" Corrugated Cardboard Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: *Sample Not Analyzed*	Percent Non-Asbestos Fibrous Material: Sample Not Analyzed	Percent Non-Fibrous Material:
Lab No.: 7134443 **Client No.:** HA28-A	**Analyst Observation:** White/Brown Wrap / Insulation **Client Description:** Thermal Systems Insulation Layered Paper On 3" Straight Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: ***25*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: 10 Cellulose 30 Mineral Wool	Percent Non-Fibrous Material: 35
Lab No.: 7134444 **Client No.:** HA28-B	**Analyst Observation:** Sample Not Analyzed **Client Description:** Thermal Systems Insulation Layered Paper On 3" Straight Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: *Sample Not Analyzed*	Percent Non-Asbestos Fibrous Material: Sample Not Analyzed	Percent Non-Fibrous Material:

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Laboratory Director

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Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134445 **Client No.:** HA28-C	**Analyst Observation:** Sample Not Analyzed **Client Description:** Thermal Systems Insulation Layered Paper On 3" Straight Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: *Sample Not Analyzed*	Percent Non-Asbestos Fibrous Material: Sample Not Analyzed	Percent Non-Fibrous Material:
Lab No.: 7134446 **Client No.:** HA29-A	**Analyst Observation:** White/Tan Insulation **Client Description:** Thermal Systems Insulation Mudded Fittings On 3" Layered Paper Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: ***15*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: 15 Cellulose 50 Mineral Wool	Percent Non-Fibrous Material: 20
Lab No.: 7134447 **Client No.:** HA29-B	**Analyst Observation:** Sample Not Analyzed **Client Description:** Thermal Systems Insulation Mudded Fittings On 3" Layered Paper Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: *Sample Not Analyzed*	Percent Non-Asbestos Fibrous Material: Sample Not Analyzed	Percent Non-Fibrous Material:
Lab No.: 7134448 **Client No.:** HA29-C	**Analyst Observation:** Sample Not Analyzed **Client Description:** Thermal Systems Insulation Mudded Fittings On 3" Layered Paper Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: *Sample Not Analyzed*	Percent Non-Asbestos Fibrous Material: Sample Not Analyzed	Percent Non-Fibrous Material:
Lab No.: 7134449 **Client No.:** HA30-A	**Analyst Observation:** White/Brown Insulation **Client Description:** Thermal Systems Insulation Corrugated Cardboard On 4" Straight Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: ***12*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: 80 Cellulose	Percent Non-Fibrous Material: 8
Lab No.: 7134450 **Client No.:** HA30-B	**Analyst Observation:** Sample Not Analyzed **Client Description:** Thermal Systems Insulation Corrugated Cardboard On 4" Straight Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: *Sample Not Analyzed*	Percent Non-Asbestos Fibrous Material: Sample Not Analyzed	Percent Non-Fibrous Material:

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Report Date: 1/31/2021
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Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134451 **Client No.:** HA30-C	**Analyst Observation:** Sample Not Analyzed **Client Description:** Thermal Systems Insulation Corrugated Cardboard On 4" Straight Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: *Sample Not Analyzed*	Percent Non-Asbestos Fibrous Material: Sample Not Analyzed	Percent Non-Fibrous Material:
Lab No.: 7134452 **Client No.:** HA31-A	**Analyst Observation:** White/Grey Wrap / Insulation **Client Description:** Thermal Systems Insulation Mudded Fittings On 4" Corrugated Cardboard Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: ***25*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: 10 Cellulose 50 Mineral Wool	Percent Non-Fibrous Material: 15
Lab No.: 7134453 **Client No.:** HA31-B	**Analyst Observation:** Sample Not Analyzed **Client Description:** Thermal Systems Insulation Mudded Fittings On 4" Corrugated Cardboard Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: *Sample Not Analyzed*	Percent Non-Asbestos Fibrous Material: Sample Not Analyzed	Percent Non-Fibrous Material:
Lab No.: 7134454 **Client No.:** HA31-C	**Analyst Observation:** Sample Not Analyzed **Client Description:** Thermal Systems Insulation Mudded Fittings On 4" Corrugated Cardboard Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: *Sample Not Analyzed*	Percent Non-Asbestos Fibrous Material: Sample Not Analyzed	Percent Non-Fibrous Material:
Lab No.: 7134455 **Client No.:** HA32-A	**Analyst Observation:** White/Grey Wrap / Insulation **Client Description:** Thermal Systems Insulation Corrugated Cardboard On 8" Straight Lines, White	**Location:** South Bay, Above Women's Restroom **Facility:**
Percent Asbestos: ***75*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: 10 Cellulose	Percent Non-Fibrous Material: 15
Lab No.: 7134456 **Client No.:** HA32-B	**Analyst Observation:** Sample Not Analyzed **Client Description:** Thermal Systems Insulation Corrugated Cardboard On 8" Straight Lines, White	**Location:** South Bay **Facility:**
Percent Asbestos: *Sample Not Analyzed*	Percent Non-Asbestos Fibrous Material: Sample Not Analyzed	Percent Non-Fibrous Material:

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Laboratory Director

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Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134457
Client No.: HA32-C

Analyst Observation: Sample Not Analyzed
Client Description: Thermal Systems Insulation Corrugated Cardboard On 8" Straight Lines, White

Location: East Bay
Facility:

Percent Asbestos:
Sample Not Analyzed

Percent Non-Asbestos Fibrous Material:
Sample Not Analyzed

Percent Non-Fibrous Material:

Lab No.: 7134458
Client No.: HA33-A

Analyst Observation: White/Grey Wrap / Insulation
Client Description: Thermal Systems Insulation Mudded Fittings On 8" Corrugated Cardboard Lines, White

Location: East Bay
Facility:

Percent Asbestos:
12 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
10 Cellulose
60 Mineral Wool

Percent Non-Fibrous Material:
18

Lab No.: 7134459
Client No.: HA33-B

Analyst Observation: Sample Not Analyzed
Client Description: Thermal Systems Insulation Mudded Fittings On 8" Corrugated Cardboard Lines, White

Location: East Bay
Facility:

Percent Asbestos:
Sample Not Analyzed

Percent Non-Asbestos Fibrous Material:
Sample Not Analyzed

Percent Non-Fibrous Material:

Lab No.: 7134460
Client No.: HA33-C

Analyst Observation: Sample Not Analyzed
Client Description: Thermal Systems Insulation Mudded Fittings On 8" Corrugated Cardboard Lines, White

Location: East Bay
Facility:

Percent Asbestos:
Sample Not Analyzed

Percent Non-Asbestos Fibrous Material:
Sample Not Analyzed

Percent Non-Fibrous Material:

Lab No.: 7134461
Client No.: HA34-A

Analyst Observation: White/Grey Wrap / Insulation
Client Description: Thermal Systems Insulation, 6x4 Tank Insulation

Location: South Bay, Above Women's Restroom
Facility:

Percent Asbestos:
40 *Chrysotile*
10 *Amosite*
PC 1.5 *Crocidolite*

Percent Non-Asbestos Fibrous Material:
10 Cellulose
10 Mineral Wool

Percent Non-Fibrous Material:
28.5

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Signature:
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Approved By:
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Laboratory Director

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43980 Plymouth Oaks Blvd
Plymouth MI 48170

Client: SOI102

Report Date: 1/31/2021
Report No.: 627155 - PLM
Project: Lansing Coca Cola Plant
Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134462
Client No.: HA34-B

Analyst Observation: Sample Not Analyzed
Client Description: Thermal Systems Insulation, 6x4 Tank Insulation

Location: South Bay, Above Women's Restroom
Facility:

Percent Asbestos:
Sample Not Analyzed

Percent Non-Asbestos Fibrous Material:
Sample Not Analyzed

Percent Non-Fibrous Material:

Lab No.: 7134463
Client No.: HA34-C

Analyst Observation: Sample Not Analyzed
Client Description: Thermal Systems Insulation, 6x4 Tank Insulation

Location: South Bay, Above Women's Restroom
Facility:

Percent Asbestos:
Sample Not Analyzed

Percent Non-Asbestos Fibrous Material:
Sample Not Analyzed

Percent Non-Fibrous Material:

Lab No.: 7134464
Client No.: HA36-A

Analyst Observation: Brown Insulation
Client Description: Fibrous Insulation

Location: East Bay, Along East Wall
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
80 Cellulose
5 Mineral Wool

Percent Non-Fibrous Material:
15

Lab No.: 7134465
Client No.: HA36-B

Analyst Observation: Brown Insulation
Client Description: Fibrous Insulation

Location: East Bay, Along South Wall
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
60 Cellulose
25 Mineral Wool

Percent Non-Fibrous Material:
15

Lab No.: 7134466
Client No.: HA37-A

Analyst Observation: White Rubber
Client Description: Rubber Membrane Roofing System (Truck Dock)

Location: At Roof Hatch
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7134466(L2)
Client No.: HA37-A

Analyst Observation: Brown Fibrous
Client Description: Rubber Membrane Roofing System (Truck Dock)

Location: At Roof Hatch
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
95 Cellulose

Percent Non-Fibrous Material:
5

Please refer to the Appendix of this report for further information regarding your analysis.

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Client: SOI102

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Report No.: 627155 - PLM
Project: Lansing Coca Cola Plant
Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134466(L3) **Analyst Observation:** Black Roof Material **Location:** At Roof Hatch
Client No.: HA37-A **Client Description:** Rubber Membrane Roofing System (Truck Dock) **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
15 *Chrysotile*	None Detected	85

Lab No.: 7134467 **Analyst Observation:** White Rubber **Location:** At Roof Hatch
Client No.: HA37-B **Client Description:** Rubber Membrane Roofing System (Truck Dock) **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7134467(L2) **Analyst Observation:** Brown Fibrous **Location:** At Roof Hatch
Client No.: HA37-B **Client Description:** Rubber Membrane Roofing System (Truck Dock) **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	90 Cellulose	10

Lab No.: 7134468 **Analyst Observation:** Black Caulk **Location:** At Roof Hatch
Client No.: HA38-A **Client Description:** Roofing Caulk (Truck Dock) **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
PC 5.3 *Chrysotile*	None Detected	94.7

Lab No.: 7134469 **Analyst Observation:** Sample Not Analyzed **Location:** At Roof Hatch
Client No.: HA38-B **Client Description:** Roofing Caulk (Truck Dock) **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
Sample Not Analyzed	Sample Not Analyzed	

Lab No.: 7134470 **Analyst Observation:** Black Roof Material **Location:** At Roof Hatch
Client No.: HA39-A **Client Description:** Rubber Membrane Roofing System (Main Roof) **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	30 Synthetic	70

Please refer to the Appendix of this report for further information regarding your analysis.

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Client: SOI102

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Project No.: 083616.00

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7134470(L2)
Client No.: HA39-A
Analyst Observation: Black Roof Material
Client Description: Rubber Membrane Roofing System (Main Roof)
Location: At Roof Hatch
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
25 Cellulose

Percent Non-Fibrous Material:
75

Lab No.: 7134470(L3)
Client No.: HA39-A
Analyst Observation: Black Roof Material
Client Description: Rubber Membrane Roofing System (Main Roof)
Location: At Roof Hatch
Facility:

Percent Asbestos:
12 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
88

Lab No.: 7134471
Client No.: HA39-B
Analyst Observation: Black Roof Material
Client Description: Rubber Membrane Roofing System (Main Roof)
Location: At Roof Hatch
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
5 Cellulose
8 Synthetic

Percent Non-Fibrous Material:
87

Lab No.: 7134472
Client No.: HA40-A
Analyst Observation: Black Caulk
Client Description: Roofing Caulk (Main Roof)
Location: At Roof Hatch
Facility:

Percent Asbestos:
10 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
15 Cellulose

Percent Non-Fibrous Material:
75

Lab No.: 7134473
Client No.: HA40-B
Analyst Observation: Sample Not Analyzed
Client Description: Roofing Caulk (Main Roof)
Location: At Roof Hatch
Facility:

Percent Asbestos:
Sample Not Analyzed

Percent Non-Asbestos Fibrous Material:
Sample Not Analyzed

Percent Non-Fibrous Material:

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Date Received: 1/22/2021
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	43980 Plymouth Oaks Blvd	Report No.:	627155 - PLM
	Plymouth MI 48170	Project:	Lansing Coca Cola Plant
		Project No.:	083616.00
Client:	SOI102		

Appendix to Analytical Report

Customer Contact: Jason Lafayette
Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, and USEPA 600, R93-116 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: wchampion@iatl.com
iATL Account Representative: Shirley Clark
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

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	Plymouth MI 48170	Project:	Lansing Coca Cola Plant
		Project No.:	083616.00
Client:	SOI102		

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

1) Note: No mastic provided for analysis.
2) Note: Insufficient mastic provided for analysis.
3) Note: Insufficient material provided for analysis.
4) Note: Insufficient sample provided for QC reanalysis.
5) Note: Different material than indicated on Sample Log / Description.
6) Note: Sample not submitted.
7) Note: Attached to asbestos containing material.
8) Note: Received wet.
9) Note: Possible surface contamination.
10) Note: Not building material. 1% threshold may not apply.
11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
12) Note: Asbestos detected but not quantifiable.
13) Note: Multiple identical samples submitted, only one analyzed.
14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites).Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: “ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite.”

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers Inc.-102
43980 Plymouth Oaks Blvd
Plymouth MI 48170

Client: SOI102

Report Date: 1/31/2021
Report No.: 627155 - PLM
Project: Lansing Coca Cola Plant
Project No.: 083616.00

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
*With advance notice and confirmation by the laboratory.
**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

iATL INTERNATIONAL
Asbestos Testing Laboratories

9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

–Bulk Asbestos –

Contact Information

Client Company:	SME	Project Number:	083616.00
Office Address:	43980 Plymouth Oaks Blvd.	Project Name:	Lansing Coca Cola plant
City, State, Zip:	Plymouth, MI 48170	Primary Contact:	Jason Lafayette
Fax Number:		Office Phone:	734-454-9900
Email Address:	lafayette@sme-usa.com	Cell Phone:	734-891-6277

PLM Instructions:

- ■ PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- ☐ PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- ☐ PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- ☐ PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- ☐ PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- ☐ TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

- ☐ PLM: Point Counting
  - ☐ PC: via ELAP 198.1
  - ■ PC: 400 Points
  - ☐ PC: 800 Points *
  - ☐ PC: 1600 Points *
- ☐ PLM: Instructions for Multi-Layered Samples
  - ☐ Analyze and Report All Separable Layers per EPA 600
  - ☐ Report Composite for Drywall Systems per NESHAP
  - ☐ Report All Layers and Composite Where Applicable
  - ☐ Only Analyze and Report Specifically Noted Layer
- ☐ PLM: Analyze Until Positive (Positive Stop)
  - ☐ AUP: by Homogenous Area as Noted
  - ☐ AUP: by Material Type as Noted
- ☐ PLM: NOB via 198.6
  - ☐ PLM: Friable via EPA 600 2.3
  - ☐ If <1% by PLM, to TEM via 198.4 *
  - ☐ If <1% by PLM, Hold for Instructions
- ☐ PLM: Non-Building Material *,** (Dust, Wipe, Tape)
  - ☐ Soil or Vermiculite Analysis *
  - ☐ CARB 435

Special Instructions: REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS

** Additional charge and turnaround may be required* *** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory*

Turnaround Time

Preliminary Results Requested Date: _____ (Specific date / time) ☐ Verbal ■ Email ☐ Fax

☐ 10 Day ■ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day* ☐ 12 Hour** ☐ 6 Hour** ☐ RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

Chain of Custody

Relinquished (Name/Organization):	Percy Richards/ SME	Date:	1-18-21	Time:	
Received (Name / iATL):		Date:		Time:	
Sample Login (Name / iATL):		Date:		Time:	
Analysis(Name(s) / iATL):	LSC 1-31-21	Date:		Time:	22
QA/QC Review (Name / iATL):		Date:		Time:	
Archived / Released:	QA/QC InterLAB Use:	Date:		Time:	

iATL INTERNATIONAL
9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

–Bulk Asbestos –

Contact Information

Client Company:	SME	Project Number:	093616.00
Office Address:	43980 Plymouth Oaks Blvd.	Project Name:	Lansing Coca Cola plant
City, State, Zip:	Plymouth, MI 48170	Primary Contact:	Jason Lafayette
Fax Number:		Office Phone:	734-454-9900
Email Address:	lafayette@sme-usa.com	Cell Phone:	734-891-6277

PLM Instructions:

- [x] PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- [ ] PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- [ ] PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- [ ] PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- [ ] PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- [ ] TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

- [ ] PLM: Point Counting
  - [ ] PC: via ELAP 198.1
  - [x] PC: 400 Points
  - [ ] PC: 800 Points *
  - [ ] PC: 1600 Points *
- [ ] PLM: Instructions for Multi-Layered Samples
  - [ ] Analyze and Report All Separable Layers per EPA 600
  - [ ] Report Composite for Drywall Systems per NESHAP
  - [ ] Report All Layers and Composite Where Applicable
  - [ ] Only Analyze and Report Specifically Noted Layer
- [ ] PLM: Analyze Until Positive (Positive Stop)
  - [ ] AUP: by Homogenous Area as Noted
  - [ ] AUP: by Material Type as Noted
- [ ] PLM: NOB via 198.6
  - [ ] PLM: Friable via EPA 600 2.3
  - [ ] If <1% by PLM, to TEM via 198.4 *
  - [ ] If <1% by PLM, Hold for Instructions
- [ ] PLM: Non-Building Material*,** (Dust, Wipe, Tape)
  - [ ] Soil or Vermiculite Analysis*
  - [ ] CARB 435

Special Instructions: REFER TO ATTACHED SME CHAIN OF CUSTODY FOR ANALYSIS INSTRUCTIONS

** Additional charge and turnaround may be required* *** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory*

Turnaround Time

Preliminary Results Requested Date: _____ (Specific date / time) ☐ Verbal ☑ Email ☐ Fax

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day* ☐ 12 Hour** ☐ 6 Hour** ☐ RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

Chain of Custody

Relinquished (Name/Organization):	Percy Richards/ SME	Date:	1-18-21	Time:	
Received (Name / iATL):		Date:		Time:	
Sample Login (Name / iATL):		Date:		Time:	
Analysis(Name(s) / iATL):	ESC 1-30-21	Date:		Time:	
QA/QC Review (Name / iATL):		Date:		Time:	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date:		Time:	

CHAIN OF CUSTODY LOG

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI, 48170
Phone 734-454-9900
FAX 734-454-0629

CLIENT NAME: City of Lansing
SITE ADDRESS: 1501 N. Grand River Ave., Lansing, MI

BULK SAMPLE ANALYSIS REQUESTED: EPA 600R-93/116, 1993 with PLM Point Counting PC: 400 points

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster and wallboard system samples. Please analyze all plaster and wallboard system samples, and provide individual layer analysis for each sample. If asbestos is detected in an individual layer of a wallboard system sample, please provide composite analysis. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

AREA #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	#
HA 1	A	½" bead interior window glazing; white	East bay, along east wall	1
HA 1	B	½" bead interior window glazing; white	East bay, along south wall	2
HA 2	A	CMU block and mortar	North bay	3
HA 2	B	CMU block and mortar	South bay	4
HA 3	A	Brick mortar	East bay, at northeast room	5
HA 3	B	Brick mortar	East bay, at northeast room	6
HA 4	A	Fire door (older sliding style)	**NOT SAMPLED, ASSUMED**	7
HA 5	A	2'x4' pinhole, wormtrack ceiling tile; white	East bay office	8
HA 5	B	2'x4' pinhole, wormtrack ceiling tile; white	East bay office	9
HA 6	A	12"x12" vinyl floor tile; off-white with yellow mastic	East bay office	10
HA 6	B	12"x12" vinyl floor tile; off-white with yellow mastic	East bay office	11
HA 7	A	8'x2' fibrous pressboard ceiling panels; tan	South bay, on ground	12
HA 7	B	8'x2' fibrous pressboard ceiling panels; tan	South bay, on ground	13
HA 8	A	Concrete	East bay	14
HA 8	B	Concrete	North bay	15
HA 9	A	8"x8" ceramic floor tile with grout and bedding; red	North bay office area	16
HA 9	B	8"x8" ceramic floor tile with grout and bedding; red	South bay	17
HA 10	A	2'x4' pinhole, wormtrack ceiling tile; white	At main entrance to building	18
HA 10	B	2'x4' pinhole, wormtrack ceiling tile; white	South bay, lunch room	19
HA 11	A	9"x9" vinyl floor tile; tan with black mastic	Main entryway to building	20
HA 11	B	9"x9" vinyl floor tile; tan with black mastic	South bay, men's restroom	21
HA 12	A	1"x1" ceramic floor tile with bedding and grout; tan	Main office area, woman's restroom	22
HA 12	B	1"x1" ceramic floor tile with bedding and grout; tan	South bay, men's restroom	23
HA 13	A	Wallboard wall system	Main office area, at main entryway to building, in northeast corner	24

RELINQUISHED BY: Percy Richards DATE: 01/18/21 TIME:
RECEIVED BY: DATE: TIME:

Please provide 5 day turnaround, emailed to Jason Lafayette at lafayette@sme-usa.com

SME USE ONLY
Date Sampled: 01/15/21 SME Project #: 083616.00

1 of 5

CHAIN OF CUSTODY LOG

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI, 48170
Phone 734-454-9900
FAX 734-454-0629

CLIENT NAME: City of Lansing
SITE ADDRESS: 1501 N. Grand River Ave., Lansing, MI

BULK SAMPLE ANALYSIS REQUESTED: EPA 600R-93/116, 1993 with PLM Point Counting PC: 400 points

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster and wallboard system samples. Please analyze all plaster and wallboard system samples, and provide individual layer analysis for each sample. If asbestos is detected in an individual layer of a wallboard system sample, please provide composite analysis. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

AREA #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	#
HA 13	B	Wallboard wall system	Main office area, at main entryway to building, in southeast corner	25
HA 13	C	Wallboard wall system	South bay, men's restroom	26
HA 14	A	4" cove base; brown	South bay, men's restroom	27
HA 14	B	4" cove base; brown	South bay, lunch room	28
HA 15	A	Wallboard ceiling system	South bay, west restroom	29
HA 15	B	Wallboard ceiling system	South bay, west restroom	30
HA 15	C	Wallboard ceiling system	South bay, west restroom	31
HA 16	A	Fire door (regular new style)	**NOT SAMPLED, ASSUMED**	32
HA 17	A	Terrazzo flooring	North bay, office area	33
HA 17	B	Terrazzo flooring	North bay, office area	34
HA 18	A	1'x1' ceramic wall tile with grout and bedding; tan	North bay, office area, north half of office	35
HA 18	B	1'x1' ceramic wall tile with grout and bedding; tan	North bay, office area, south half of office	36
HA 19	A	2'x4' ceiling tile; flat white	Main office area, far northeast room of main hallway	37
HA 19	B	2'x4' ceiling tile; flat white	Main office area, far northeast room of main hallway	38
HA 20	A	Wall panel mastic; brown	Main office area, office just north of main entrance	39
HA 20	B	Wall panel mastic; brown	Main office area, office just south of main entrance	40
HA 21	A	Plasterboard wall system	Lobby at main entrance to building, at south wall	41
HA 21	B	Plasterboard wall system	Main office area, furnace room	42
HA 21	C	Plasterboard wall system	Main office area, men's restroom, along south wall	43
HA 21	D	Plasterboard wall system	Main office area, far southwest room, along north wall	44

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CGP 1-31-21

RELINQUISHED BY: Percy Richards DATE: 01/18/21 TIME:
RECEIVED BY: DATE: TIME:

Please provide 5 day turnaround, emailed to Jason Lafayette at lafayette@sme-usa.com

SME USE ONLY
Date Sampled: 01/15/21
SME Project #: 083616.00

2 of 5

CHAIN OF CUSTODY LOG

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI, 48170
Phone 734-454-9900
FAX 734-454-0629

CLIENT NAME: City of Lansing
SITE ADDRESS: 1501 N. Grand River Ave., Lansing, MI

BULK SAMPLE ANALYSIS REQUESTED: EPA 600R-93/116, 1993 with PLM Point Counting PC: 400 points

Note: Multiple samples of each homogeneous area may have been collected. If asbestos is detected at greater than 1% in first sample, DO NOT analyze subsequent samples from that area with exception of plaster and wallboard system samples. Please analyze all plaster and wallboard system samples, and provide individual layer analysis for each sample. If asbestos is detected in an individual layer of a wallboard system sample, please provide composite analysis. Please provide mastic analysis for floor tile samples. Treat mastic as a separate homogeneous area. For each thermal system insulation sample, please analyze the insulation portion(s) of each sample first. If asbestos is detected at 1% or greater do not analyze the insulation covering layer of the sample. Please provide the insulation covering analysis for thermal system insulation samples where asbestos is not detected in insulation layer(s) or where asbestos is detected at less than 1%.

AREA #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	#
HA 21	E	Plasterboard wall system	Main office area, women's restroom, along south wall	45 7134426
HA 21	F	Plasterboard wall system	Main office area, far east office, along south wall	46 7134427
HA 21	G	Plasterboard wall system	Main office area, in main hallway, along southwest wall	47 7134428
HA 22	A	4" cove base; light tan	Main office area	48 7134429
HA 22	B	4" cove base; light tan	Main office area	49 7134430
HA 23	A	Carpet mastic; tan	Main office area, office just south of main entrance to building	50 7134431
HA 23	B	Carpet mastic; tan	Main office area, office just south of main entrance to building	51 7134432
HA 24	A	1'x1' pinhole ceiling tile; white	Main office area, office just south of main entrance to building	52 7134433
HA 24	B	1'x1' pinhole ceiling tile; white	Main office area, office just south of main entrance to building	53 7134434
HA 25	A	1'x1' ceramic wall tile with grout and bedding; pink	Main office area men's restroom	54 7134435
HA 25	B	1'x1' ceramic wall tile with grout and bedding; pink	Main office area women's restroom	55 7134436
HA 26	A	Thermal systems insulation corrugated cardboard on 3" straight lines; white	South bay	56 7134437
HA 26	B	Thermal systems insulation corrugated cardboard on 3" straight lines; white	South bay	57 7134438
HA 26	C	Thermal systems insulation corrugated cardboard on 3" straight lines; white	South bay	58 7134439
HA 27	A	Thermal systems insulation mudded fittings on 3" corrugated cardboard lines; white	South bay	59 7134440
HA 27	B	Thermal systems insulation mudded fittings on 3" corrugated cardboard lines; white	South bay	60 7134441
HA 27	C	Thermal systems insulation mudded fittings on 3" corrugated cardboard lines; white	South bay	61 7134442

RELINQUISHED BY: Percy Richards DATE: 01/18/21 TIME: _____
RECEIVED BY: _____ DATE: _____ TIME: _____

Please provide 5 day turnaround, emailed to Jason Lafayette at lafayette@sme-usa.com

SME USE ONLY
Date Sampled: 01/15/21 SME Project #: 083616.00

3 of 5

CHAIN OF CUSTODY LOG

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI, 48170
Phone 734-454-9900
FAX 734-454-0629

CLIENT NAME: City of Lansing
SITE ADDRESS: 1501 N. Grand River Ave., Lansing, MI

BULK SAMPLE ANALYSIS REQUESTED: EPA 600R-93/116, 1993 with PLM Point Counting PC: 400 points

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AREA #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	#
HA 28	A	Thermal systems insulation layered paper on 3" straight lines; white	South bay	62 7134443
HA 28	B	Thermal systems insulation layered paper on 3" straight lines; white	South bay	63 7134444
HA 28	C	Thermal systems insulation layered paper on 3" straight lines; white	South bay	64 7134445
HA 29	A	Thermal systems insulation mudded fittings on 3" layered paper lines; white	South bay	65 7134446
HA 29	B	Thermal systems insulation mudded fittings on 3" layered paper lines; white	South bay	66 7134447
HA 29	C	Thermal systems insulation mudded fittings on 3" layered paper lines; white	South bay	67 7134448
HA 30	A	Thermal systems insulation corrugated cardboard on 4" straight lines; white	South bay	68 7134449
HA 30	B	Thermal systems insulation corrugated cardboard on 4" straight lines; white	South bay	69 7134450
HA 30	C	Thermal systems insulation corrugated cardboard on 4" straight lines; white	South bay	70 7134451
HA 31	A	Thermal systems insulation mudded fittings on 4" corrugated cardboard lines; white	South bay	71 7134452
HA 31	B	Thermal systems insulation mudded fittings on 4" corrugated cardboard lines; white	South bay	72 7134453
HA 31	C	Thermal systems insulation mudded fittings on 4" corrugated cardboard lines; white	South bay	73 7134454
HA 32	A	Thermal systems insulation corrugated cardboard on 8" straight lines; white	South bay, above women's restroom	74 7134455
HA 32	B	Thermal systems insulation corrugated cardboard on 8" straight lines; white	South bay	75 7134456
HA 32	C	Thermal systems insulation corrugated cardboard on 8" straight lines; white	East bay	76 7134457
HA 33	A	Thermal systems insulation mudded fittings on 8" corrugated cardboard lines; white	East bay	77 7134458

RELINQUISHED BY: Percy Richards DATE: 01/18/21 TIME:_____
RECEIVED BY:_____ DATE:_____ TIME:_____

Please provide 5 day turnaround, emailed to Jason Lafayette at lafayette@sme-usa.com

SME USE ONLY
Date Sampled: 01/15/21 SME Project #: 083616.00

CHAIN OF CUSTODY LOG

SME

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CLIENT NAME: City of Lansing
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AREA #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	#
HA 33	B	Thermal systems insulation mudded fittings on 8" corrugated cardboard lines; white	East bay	78 ?134459
HA 33	C	Thermal systems insulation mudded fittings on 8" corrugated cardboard lines; white	East bay	79 ?134460
HA 34	A	Thermal systems insulation; 6'x4' tank insulation	South bay, above women's restroom	80 ?134461
HA 34	B	Thermal systems insulation; 6'x4' tank insulation	South bay, above women's restroom	81 ?134462
HA 34	C	Thermal systems insulation; 6'x4' tank insulation	South bay, above women's restroom	82 ?134463
HA 35	A	Safe insulation	**NOT SAMPLED, ASSUMED**	83
HA 36	A	Fibrous insulation	East bay, along east wall	84 ?134464
HA 36	B	Fibrous insulation	East bay, along south wall	85 ?134465
HA 37	A	Rubber membrane roofing system (truck dock)	At roof hatch	86 ?134466
HA 37	B	Rubber membrane roofing system (truck dock)	At roof hatch	87 ?134467
HA 38	A	Roofing caulk (truck dock)	At roof hatch	88 ?134468
HA 38	B	Roofing caulk (truck dock)	At roof hatch	89 ?134469
HA 39	A	Rubber membrane roofing system (main roof)	At roof hatch	90 ?134470
HA 39	B	Rubber membrane roofing system (main roof)	At roof hatch	91 ?134471
HA 40	A	Roofing caulk (main roof)	At roof hatch	92 ?134472
HA 40	B	Roofing caulk (main roof)	At roof hatch	93 ?134473

RELINQUISHED BY: Percy Richards DATE: 01/18/21 TIME:_____
RECEIVED BY:_____ DATE:_____ TIME:_____

Please provide 5 day turnaround, emailed to Jason Lafayette at lafayette@sme-usa.com

SME USE ONLY
Date Sampled: 01/15/21 SME Project #: 083616.00

APPENDIX B

REGULATORY INFORMATION REGARDING ASBESTOS NOTIFICATIONS AND WORK PRACTICES

REGULATORY INFORMATION REGARDING ASBESTOS NOTIFICATIONS AND WORK PRACTICES

Information regarding federal and state requirements for notification or work operations and the required work practices for activities involving ACMs and trace asbestos materials is presented below. Assumed ACMs are considered ACMs relative to regulatory notification and work requirements.

ASBESTOS REMOVAL

According to the United States Environmental Protection Agency (USEPA) National Emission Standard for Hazardous Air Pollutants asbestos regulation (NESHAP, 40 CFR Part 61 M), friable ACMs and nonfriable ACMs which could be expected to be disturbed and become friable must be removed prior to demolition activities. A ten calendar-day notification to the Michigan Department of Labor and Economic Opportunity (MDLEO) Asbestos Program is required when greater than 10 linear feet or 15 square feet of regulated asbestos material will be removed.

If greater than 160 square feet, 260 linear feet, or 35 cubic feet of regulated asbestos material will be removed, a ten working-day (14 calendar-day) notification to the Michigan Department of Environment, Great Lakes, and Energy-Air Quality Division (EGLE-AQD) is also required. The *Notification of Intent to Renovate/Demolish* form is used for both the MDLRA and EGLE-AQD notifications. This form can be submitted online or downloaded from EGLE's website. [1]

The *Notification of Intent to Renovate/Demolish* form required by the USEPA NESHAP regulation must also be prepared and submitted to EGLE-AQD at least 10 working-days (14 calendar-days) prior to demolition of a building, regardless of whether or not ACMs are present in the building. The contractor is responsible for submitting the notification prior to demolition activities.

According to the OSHA Asbestos Construction Standard (29 CFR 1926.1101), removal or demolition involving thermal system insulation (TSI) or surfacing ACMs is considered Class I asbestos work. Removal or demolition involving ACM that is not TSI or surfacing material is considered Class II asbestos work. All Class I asbestos work activities must be conducted by a licensed and accredited asbestos contractor and in accordance with the standard. Work activities defined as Class II asbestos work must be conducted by appropriately trained or accredited staff under the supervision of an accredited Asbestos Contractor Supervisor in accordance with the standard.

According to the USEPA NESHAP asbestos regulation, nonfriable ACMs, if in good condition and not subjected to forces that would render them friable, need not be removed from a building prior to demolition. However, if a building contains one or more ACM during demolition, the demolition workers are required to have eight (8) hours of asbestos training with specific "hands-on" instruction for each asbestos material present during demolition. An individual who has completed a 40-hour asbestos supervisor training course must also supervise the work. Specific OSHA asbestos work practices including, but not limited to, the use of respirators and personal protective equipment, and restrictions related to the material(s) would apply. Personal exposure monitoring of the personnel on site would be required during demolition. In addition, hazard communication requirements contained in the OSHA Asbestos Construction Standard related to multiple employer work sites would apply.

[1] Notification of Intent to Renovate/Demolish Form: https://www.michigan.gov/egle/0,9429,7-135-3310_4106-11856--,00.html

40 CFR Part 763 requires asbestos abatement project design by an Asbestos Project Designer that is trained in accordance with USEPA requirements and accredited under by the MDLEO. All ACM waste generated during asbestos abatement activities should be placed in doubled, appropriately labeled waste bags, affixed with a waste generator location label, and disposed in a landfill licensed to accept asbestos waste in the State of Michigan. All ACM waste generated during asbestos abatement activities that is removed from the site should be inventoried on a Waste Shipment Record that complies with NESHAP regulations, 40 CFR Part 61.

Paragraph (k) of the OSHA Asbestos Construction Standard (29 CFR Part 1926.1101) and paragraph (j) of the OSHA Asbestos Standard for General Industry (29 CFR Part 1910.1001) require that building owners communicate to their employees, tenants, and building contractors information regarding the presence, quantity, and location of ACMs in a building.

MATERIALS CONTAINING TRACE ASBESTOS

According to the OSHA Asbestos Construction Standard, work involving materials containing trace concentrations of asbestos is considered “unclassified” asbestos work. Unclassified asbestos work is subject to the engineering and work practice requirements contained within paragraphs (g)(1), (g)(2), and (g)(3) of the standard with the exception of (g)(1)(i). These requirements include:

- Use of wetting agents and wet methods.
- Prompt cleanup of waste and disposal of waste within leak-tight containers.
- Use of local exhaust ventilation equipped with high-efficiency particulate air (HEPA) filtration.
- Enclosure or isolation of the work area or process.
- Ventilation of the work area to move contaminated air from the breathing zone of employees towards the HEPA filtered ventilation source.

Work involving this material may also be subject to other requirements contained within the standard including, but not limited to: exposure assessment/monitoring of personnel working with these materials, use of personal protective equipment, and hazard communication requirements.

APPENDIX C

PAINT CHIP SAMPLE CERTIFICATES OF ANALYSIS AND CHAIN OF CUSTODY FORMS

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers Inc.-102
43980 Plymouth Oaks Blvd
Plymouth MI 48170

Client: SOI102

Report Date: 1/29/2021
Report No.: 627099 - Lead Paint
Project: Lansing Coca-Cola Plant
Project No.: 083616.00

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7133707 **Description:** White **Result (% by Weight):** 0.0071
Client No.: P1 **Location:** Interior, Throughout **Result (ppm):** 71
Comments:

Lab No.: 7133708 **Description:** Cream **Result (% by Weight):** 0.090
Client No.: P2 **Location:** Interior, Throughout **Result (ppm):** 900
Comments:

Lab No.: 7133709 **Description:** Yellow **Result (% by Weight):** 4.9
Client No.: P3 **Location:** Interior, East Bay, Concrete Walls **Result (ppm):** 49000
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/22/2021
Date Analyzed: 01/29/2021
Signature: Chad Shaffer
Analyst: Chad Shaffer

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Soil and Materials Engineers Inc.-102	Report Date:	1/29/2021
	43980 Plymouth Oaks Blvd	Report No.:	627099 - Lead Paint
	Plymouth MI 48170	Project:	Lansing Coca-Cola Plant
		Project No.:	083616.00
Client:	SOI102		

Appendix to Analytical Report:

Customer Contact: Jason Lafayette
Method: ASTM D3335-85a, US EPA SW846 3050B:7000B

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager:wchampion@iatl.com
iATL Account Representative: Shirley Clark
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Paint
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:
- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188
- NYSDOH-ELAP No. 11021

This report meets the standards set forth in the EPA's National Lead Laboratory Accreditation Program (NLLAP) through the Laboratory Quality System Requirements (LQSR) Revision 3.0 November 5, 2007. All Environmental Lead Proficiency Analytical Testing (ELPAT) is through the AIHA-PAT established program.

Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation.
All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.
Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B.
Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.
LSD=0.2 ppm MDL=0.005% by weight. RL= 0.010% by weight (based upon 100 mg sampled).

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com.**

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Soil and Materials Engineers Inc.-102	Report Date:	1/29/2021
	43980 Plymouth Oaks Blvd	Report No.:	627099 - Lead Paint
	Plymouth MI 48170	Project:	Lansing Coca-Cola Plant
		Project No.:	083616.00
Client:	SOI102		

* Insufficient sample provided to perform QC reanalysis (<200 mg)
** Not enough sample provided to analyze (<50 mg)
*** Matrix / substrate interference possible.

< less than sign, signifies none-detected below the empirical value based upon sub-sampled mass. This is often below the Reporting Limit (see above).

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers Inc.-102
43980 Plymouth Oaks Blvd
Plymouth MI 48170

Client: SOI102

Report Date: 1/29/2021
Report No.: 627099 - Cadmium Paint
Project: Lansing Coca-Cola Plant
Project No.: 083616.00

CADMIUM PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 7133707 **Description:** White **Result (% by Weight):** <0.0018
Client No.: P1 **Location:** Interior, Throughout **Result (ppm):** <18
Comments:

Lab No.: 7133708 **Description:** Cream **Result (% by Weight):** <0.0014
Client No.: P2 **Location:** Interior, Throughout **Result (ppm):** <14
Comments:

Lab No.: 7133709 **Description:** Yellow **Result (% by Weight):** 0.011
Client No.: P3 **Location:** Interior, East Bay, Concrete Walls **Result (ppm):** 110
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/22/2021
Date Analyzed: 01/29/2021
Signature: Chad Shaffer
Analyst: Chad Shaffer

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers Inc.-102
43980 Plymouth Oaks Blvd
Plymouth MI 48170

Client: SOI102

Report Date: 1/29/2021
Report No.: 627099 - Cadmium Paint
Project: Lansing Coca-Cola Plant
Project No.: 083616.00

Appendix to Analytical Report:

Customer Contact: Jason Lafayette
Analysis: ASTM D3335-85a

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: cdavis@iatl.com
iATL Account Representative: Shirley Clark
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Paint
Exceptions Noted: See Following Pages

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iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:
- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188
- NYSDOH-ELAP No. 11021

Recommend multiple sampling for all samples less than regulatory limit for confirmation.
All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.
Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B.
Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.
LSD=0.05 ppm MDL=0.00038% by weight. RL= 0.0050% by weight (based upon 100 mg sampled).

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com.**

* Insufficient sample provided to perform QC reanalysis (<200 mg)

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Soil and Materials Engineers Inc.-102
43980 Plymouth Oaks Blvd
Plymouth MI 48170

Client: SOI102

Report Date: 1/29/2021
Report No.: 627099 - Cadmium Paint
Project: Lansing Coca-Cola Plant
Project No.: 083616.00

** Not enough sample provided to analyze (<50 mg)

*** Matrix / substrate interference possible.

iATL
INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

– Environmental Lead –

Contact Information

Client Company:	SME	**Project Number:**	083616.00
Office Address:	43980 Plymouth Oaks Blvd.	**Project Name:**	Lansing Coca-Cola plant
City, State, Zip:	Plymouth, MI 48170	**Primary Contact:**	Jason Lafayette
Fax Number:		**Office Phone:**	734-454-9900
Email Address:	lafayette@sme-usa.com	**Cell Phone:**	734-891-6277

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

Matrix/Method:

- [x] Paint by AAS: ASTM D3335-85a, 2009
- [ ] Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- [ ] Air by AAS: NIOSH 7082, 1994
- [ ] Soil by AAS: EPA SW 846 (Soil)
- [ ] Water by AAS-GF: ASTM D3559-03D, US EPA 200.9
- [x] Other Metals (Cd, Zn, Cr) by AAS
- [ ] Toxicity Characteristic Leaching Procedure (TCLP) by AAS: US EPA 1311
- [ ] Other _____

Special Instructions:

Please test for Cd also

Turnaround Time

Preliminary Results Requested Date: _____ (Specific date / time) ☐ Verbal ■ Email ☐ Fax

☐ 10 Day ■ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day* ☐ 12 Hour** ☐ 6 Hour** ☐ RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

Chain of Custody

Relinquished (Name/Organization):	Percy Richards/ SME	Date:	1-18-21	Time:	
Received (Name / iATL):		Date:		Time:	
Sample Login (Name / iATL):		Date:		Time:	
Analysis(Name(s) / iATL):		Date:		Time:	
QA/QC Review (Name / iATL):		Date:		Time:	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date:		Time:	

CHAIN OF CUSTODY LOG

SME

43980 Plymouth Oaks Blvd.
Plymouth, Michigan, 48170
Phone 734-454-9900
FAX 734-454-0629

CLIENT NAME: City of Lansing
SITE ADDRESS: 1501 N. Grand River Ave., Lansing, MI

ANALYSIS REQUESTED: AAS: Lead in Paint ASTM D3335-85a

Sample #	Description/Location	
P1	White, interior, throughout	7133707
P2	Cream, interior, throughout	7133708
P3	Yellow, interior, East bay, concrete walls	7133709

RELINQUISHED BY: Percy Richards DATE: 1/18/21 TIME:
RECEIVED BY: DATE: TIME:

Please provide 5day turnaround, emailed to Jason Lafayette at lafayette@sme-usa.com

SME USE ONLY
Date Sampled: 1/15/21

SME Project #:
083616.00

IATL International Asbestos Testing Laboratories

9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818
INFO@IATL.COM

DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 01 / 29 / 21)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	103
Lab Control Std	1.390	106
Matrix Spike - LBP *	0.38	97
Matrix Spike - Wipe *	0.36	118
Matrix Spike - Soil *	0.272	99
Matrix spike - Air *	0.050	96
2.5 ppm Standard	0.25	97
10.0 ppm Standard	1.0	97
40.0 ppm Standard	4.0	98

AIHA-LAP, LLC No. 100188 **NYSDOH-ELAP No. 11021**

Analysis Method: ASTM D3335-85A
NIOSH 7082
EPA SW846 3050B 7000B

Comments: IATL assumes that all sampling complies with accepted methods.
All client supplied sampling data is assumed to be correct when calculating results.
Detection limit based upon 0.2 mg/L reporting limit and sample size.
* NIST Traceable.
** 80-120% acceptable limits.

Analyzed By: C. Shafer
Date: 1/29/21

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818
INFO@IATL.COM

DAILY QUALITY CONTROL DATA

CADMIUM SAMPLE ANALYSIS

(DATE: 01 / 29 / 21)

Standard	Total Cadmium (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	20.000	97
Matrix Spike - LBP *	1.00	103
Matrix Spike - Wipe *		
Matrix Spike - Soil *		
Matrix spike - Air *		
0.75 ppm Standard	0.75	98
1.0 ppm Standard	1.0	99
3.0 ppm Standard	3.0	99

AIHA-LAP, LCC No. 100188 **AIHA** Cert. No. 444

Analysis Method: ASTM D3335-85A
NIOSH 7048
EPA SW846-3050B:7000B

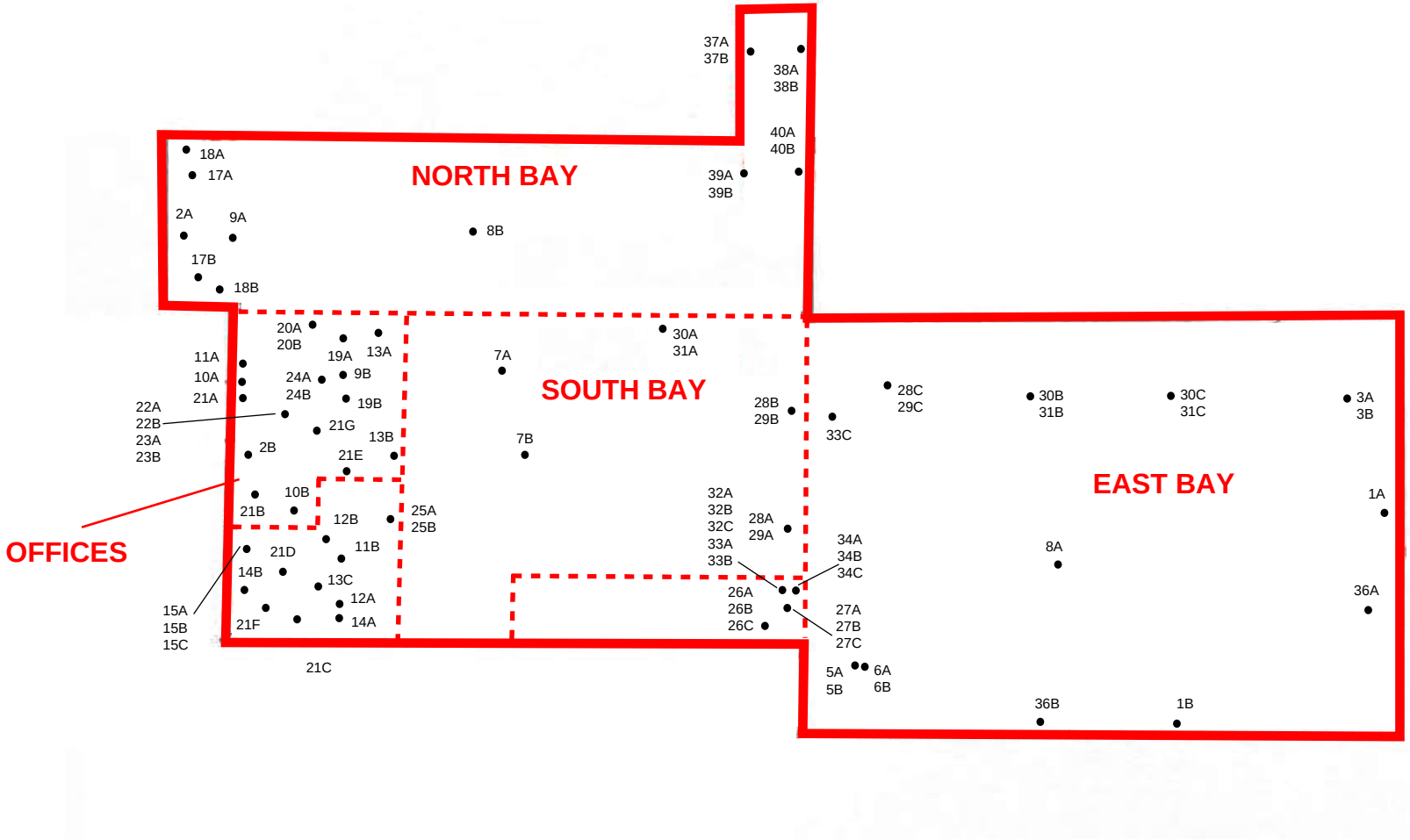
Comments: IATL assumes that all sampling complies with accepted methods.
All client supplied sampling data is assumed to be correct when calculating results.
Detection limit based upon 0.1 mg/L reporting limit and sample size.
* NIST Traceable.
** 80-120% acceptable limits.

Analyzed By: Cheryl Shaffer
C. Shaffer

Date: 1/29/21

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

APPENDIX D
SAMPLE LOCATION SKETCH



LEGEND

NORTH

No.	Revision Date	
		Date 3-18-21
		Drawn By AJH
		Designed By
		Scale NTS
		Project 083616.00

ASBESTOS SAMPLING DIAGRAM
FORMER RC COLA/COCA-COLA BOTTLING PLANT
1506 N. GRAND RIVER AVENUE
LANSING, MICHIGAN

SME
www.sme-usa.com

FIGURE 1

Passionate People Building
and Revitalizing our World

SME