# **Appendix D5**

**Asbestos-Containing Materials Reports** 

## **Asbestos-Containing Materials Inspection**

FOR

BIN 1022609

Best Street over

Kensington Expressway (Rt. 33)

City of Buffalo,

Erie County, New York

PREPARED FOR

LaBella Associates 300 State St #201 Rochester, NY 14614

FOR SUBMISSION TO

New York State Department of Transportation Region 5

100 Seneca Street

Buffalo, NY 14203

PIN - 5512.52.123 D038277 Watts Project No. 20220255 August 2023, Revised September 2023

Submitted by:

Watts Architects &Engineers



# Watts Project Contact and Asbestos Fact Sheet



### Name and Address of Building/Structure

BIN 1022609 - Best Street Bridge over

Kensington Expressway (NYS Route 33)

City of Buffalo, Erie County, New York

### Name and Address of Building/Structure Owner

New York State Department of Transportation

50 Wolf Road

Albany, New York 12232

### Name of the Firm & Persons Conducting the Inspection

Watts Architects & Engineers

Matthew E. Holquist (NYSDOL Cert #01-08239)

Robert S. Swick (NYSDOL Cert #20-05731)

William G. Coyle (NYSDOL Cert #17-39002)

### Date(s) the Inspection Was Conducted

May 3 & 11, 2023



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### 1.0 / Introduction

Watts Architects & Engineers, D.P.C. (Watts) was retained by New York State Department of Transportation (NYSDOT), in conjunction with LaBella Associates, D.P.C. (LaBella) being the lead Design Engineers for the Kensington Expressway Project (PIN 5512.52), to complete an Asbestos-Containing Materials (ACM) Inspection of the Best Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022609) as part of the overall larger project, located in the City of Buffalo, Erie County, New York. The overall PIN 5512.52 project includes the covering of the Kensington Expressway between Dodge Street and Sidney Street, with the purpose of re-creating the original Humboldt parkway setting that existed prior to the construction of the expressway, while maintaining the expressway as is, and at its current capacity. The project involves the demolition of five bridge structures and associated adjacent retaining walls throughout the project corridor along the Kensington Expressway. A separate report was prepared for each of the bridge structures throughout the project corridor, which includes:

- BIN 1022610 Dodge Street Bridge over NYS Route 33
- BIN 1022620 Northampton Street Bridge over NYS Route 33
- BIN 1022630 East Utica Street Bridge over NYS Route 33
- BIN 1022640 East Ferry Street Bridge over NYS Route 33
- BIN 1022609 Best Street Bridge over NYS Route 33

Since the overall retaining wall system throughout the project corridor isn't specifically associated with a single bridge, the ACM information associated with all of the retaining wall structures throughout the overall project corridor is summarized within each of the bridge reports noted above (the information is redundant). The information and estimated quantities are based upon the project limits at the time of reporting.

See Figure 1 – Project Location Map within **Appendix B – Figures**. The purpose of the bridge inspection was to identify and sample suspect ACM which may require abatement prior to or during demolition of the structure. The inspection was limited to the review of available records and examination of the areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. The following information summarizes the results of the investigation.

### 2.0 / Inspection Results

The inspection involved the review of available historical record plans and previously completed asbestos inspection reports in an attempt to identify known or suspect ACM and an onsite inspection that fulfilled the NYSDOT methodology of collecting three (3) bulk samples for each identified homogeneous suspect ACM. Watts collected of a total of thirty (30) bulk samples to represent the ten (10) identified suspect ACM that are present at the structure (and were not previously sampled). ACM is defined as any material containing more than one percent (1%) of asbestos. Based on the information obtained during the records review, laboratory analysis of bulk samples collected as part of this investigation, previous sampling and analysis (if applicable), and visual observations, the following information regarding ACM has been identified at BIN 1022609 – Best Street Bridge over Kensington Expressway (NYS Route 33).

#### Confirmed Asbestos-Containing Materials (ACM)

Based on the record plan review, subsequent field inspection, and laboratory analysis of collected samples, the following ACM was identified:



Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Sheet Packing – Dark Grey	Between Bottom of Deck and Tops of Abutments at Both Ends of Bridge	~190 SF	Non-Friable	Good	210.3312
Abutment / Retaining Wall Caulking	Within Retaining Wall Vertical Expansion Joints (One at Each Corner of the Bridge and Located Every 90 Linear Feet of Retaining Wall)	~2,179 LF (~545 SF for NYSDOL Reporting Purposes)	Non-Friable	Fair to Good	210.3411
Rail Post Base Grey Caulk	Base of Metal Guide Rail Posts on Top of the Retaining Walls in the Northern Portion of the Project Corridor	2,457 LF (~205 SF for NYSDOL Reporting Purposes)	Non-Friable	Good	210.3411

#### **Confirmed ACM Details**

During the record plan review and onsite inspection, the following ACM was identified:

### **Dark Grey Sheet Packing**

Dark grey asbestos-containing sheet packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge. Most of the material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations. It is estimated that the total amount of dark grey sheet packing on the bridge is approximately 190 square feet (approximately 95 square feet per abutment). The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**.

### Abutment / Retaining Wall Caulking

An asbestos-containing caulking is located within the vertical expansion joints of the retaining walls along both sides of the Kensington Expressway (NYS Route 33) project corridor. There are wall joints spaced out approximately every 30 linear feet along the retaining wall, with an expansion joint (filled with a non-ACM joint filler and covered with the asbestos-containing caulking) being located at every third joint. The two joints in between the expansion joints are each control joints with no joint fillers or ACM caulking. The control joints are tooled in as stress relief points that provide a potential cracking location within the joint itself as an effort to prevent wall surface cracking. The expansion joints (with non-ACM joint filler and asbestos-containing caulking) allow for expansion/contraction of the concrete wall. In addition to the 30' spaced two control joints and one expansion joint, there are additional expansion joints (with associated asbestos-containing caulking) in close proximity at each corner of the project corridor bridges.

The ACM was generally observed to be intact in most expansion joints, however, it was observed that the asbestos-containing caulking was no longer intact within some of the expansion joints or was sometimes covered with a newer, non-asbestos-containing caulking. It appears that the coloration of the caulking has been affected by staining and weathering, as it is not consistent in color throughout the corridor. In general, the asbestos-containing caulking was observed to be grey in color, but was sometimes darker or lighter grey, sometimes lighter or darker tan to brown. Thus, for estimating purposes, it is assumed that all of the caulking present within each expansion joint throughout the project corridor is an ACM (or is a newer non-ACM caulking but is applied directly onto the remnant asbestos-containing caulking).

It is estimated that the total amount of caulking associated with the retaining wall system throughout the project corridor is approximately 2,179 linear feet. The caulking is approximately 3" wide on average and there are a total



of 108 vertical expansion joints that extend from the Kensington Expressway (NYS Route 33) roadway surface up the entire retaining wall and also extending along the horizontal surface (approximately 1.5') on top of the retaining wall. For NYSDOL reporting purposes, this is equivalent to approximately 545 square feet in total (note that NYSDOL considers this type of ACM a reportable quantity in square feet, while NYSDOT considers caulking a linear foot pay item). The approximate locations of the ACM caulking that are in close proximity to the bridge are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

### Rail Post Base Grey Caulk

The asbestos-containing grey caulk associated with the metal guide rail post bases located on the retaining walls throughout the northern portion of the project area for the Kensington Expressway Project (PIN 5512.52) was previously tested and identified as an ACM during previous asbestos inspection reports. This ACM is not located in direct proximity to BIN 1022609, however there is a significant quantity of this ACM that will be disturbed as part of the overall project, thus the information has been included within all of the reports associated with the project.

This ACM has been confirmed present in association with the metal guide rail post bases throughout the northern portion of the project corridor where the originally installed metal guide rail system still remains. The southern portion of the project corridor has a different guide rail system that consists of recently installed decorative concrete guide rails that do not have associated ACM (however, the retaining walls below these areas still do have the asbestos-containing caulking associated with the expansion joints).

Grey asbestos-containing caulking compound is located around the perimeter of the guide rail post base plates associated with the retaining walls in the northern portion of the project corridor. It is important to note that the base plates associated with the guide rails and fencing posts located on the bridge curb/knee wall superstructure are of a different construction and do not have any associated ACM. Each rectangular guide rail post base plate with ACM is approximately 8" x 14" (a total of 3.67 linear feet per plate) and has an approximate 1" thick bead of caulk around the perimeter of each plate. There are approximately 670 guide rail post base plates with ACM associated with the retaining walls throughout the northern portion of the project corridor. Thus, it is estimated that the total amount of grey caulking compound associated with the guide rail post base plates is approximately 2,457 linear feet (205 square feet for NYSDOL reporting purposes). The ACM was generally observed to be intact in most locations. The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within Appendix B – Figures and can also be seen within Appendix A – Photos. In addition, details regarding the various retaining walls throughout the project corridor completed by design engineers from LaBella involved with the retaining wall design are included within Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information.

### **Inaccessible Assumed ACM**

During the record plan review and onsite inspection, the following inaccessible assumed ACM was identified:

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Waterproofing Item 61 – Bituminous Material	Back Side of Abutments and Retaining Walls, Counterforts, Top of Footer Piles	~234,486 SF	Non-Friable	Unknown	210.481201

### **Inaccessible Assumed ACM Details**

Waterproofing - Item 61 - Bituminous Material



This suspect ACM was identified during the record plan review in association with the retaining walls, counterforts, top of the footer piles, and abutments throughout the project corridor. According to the original Kensington Expressway construction documents, this suspect ACM was applied to the following locations: the back sides of the retaining walls; around all counterforts; extended 1' on top of the footing; and, the backs of all abutments and wingwalls from the top of footings to the bottom of pavement. As a result of this suspect ACM being buried beneath the concrete and asphalt roadway surface and the concrete sidewalks, this suspect ACM could not be accessed for sampling and subsequent submission for laboratory analysis. It is recommended that the material be tested for asbestos content prior to construction activities and any asbestos abatement because more often than not, Item 61 – Bituminous Material is found not to be an ACM, however, on occasion it is identified as an ACM, thus it must be assumed to be ACM.

It is estimated that the total amount of the suspect ACM Waterproofing – Item 61 – Bituminous Material is approximately 234,486 square feet throughout the project corridor. Quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design and the record plan information that details the approximate locations of this inaccessible/assumed ACM are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan Information**.

For a complete listing of the suspect ACM that was sampled as part of this inspection, see the Asbestos Bulk Sample Summary Table that is included later within this report.

### 3.0 / Inspection Procedures

Watts reviewed information available via NYSDOT's Bridge Data Information System (BDIS) and Record Plans that were made available by NYSDOT, Region 5.

A New York State Department of Labor (NYSDOL) certified asbestos inspector from Watts visited the site and collected bulk samples of all accessible suspect ACM that are present at the structure and were not previously sampled. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

The assessment of the structure included observations to estimate the approximate amount (length or area) of suspect ACM, if present. Photographs taken by Watts during the inspection are included within **Appendix A** – **Photos**. Where possible, Watts visually inspected identified suspect ACM to assess their condition. The conditions of the ACM are classified as good, fair, or poor. The requirement for each designation is as follows:

Good: Material with no visible damage or deterioration or showing very limited damage or deterioration.

Fair: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering less than one tenth of the surface if the damage is evenly distributed or up to 25% of the material if the damage is localized.

Poor: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering more than one tenth of the surface if the damage is evenly distributed or more than 25% of the material if the damage is localized. Material with large areas hanging from the substrate, delaminated, heavily gouged, crushed, etc.

Bulk samples of accessible suspect ACM that have not been previously analyzed were collected during the site inspection of the subject structure. In accordance with NYSDOT's Transportation Environmental Manual (TEM), three (3) samples were taken of each homogeneous material that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. Samples were delivered with the proper chain-of-custody forms to a New York State-accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except non-friable organically bound (NOB) materials were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.1. In addition, all samples analyzed via



198.1 were examined for the presence of vermiculite. NOBs, which include, but are not limited to, tars, bond breakers, bearing pads, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.6. Any NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy using NY ELAP Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by Transmission Electron Microscopy if the PLM analysis does not confirm the presence of asbestos.

An Asbestos Bulk Sample Summary Table can be found after Section 5.0 of this report, and it includes information on all suspect ACM sampled during this inspection. In addition, it enumerates all suspect homogeneous materials identified, corresponding bulk sample numbers, results of the various testing conducted, and whether or not the items are ACM. Drawing(s) identifying the approximate locations of asbestos bulk samples and detailed information regarding identified ACM (if present) are included within Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures**. The asbestos laboratory report(s) and associated chain-of custody form(s) are included within **Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)**. The related asbestos license and certification information is included within **Appendix D – License(s) and Certification(s)**.

### 4.0 / Inspection Limitations

This inspection was conducted in accordance with NYSDOT TEM, NYSDOL, and United States Environmental Protection Agency (USEPA) asbestos regulations. Collection of bulk samples of suspect ACM was limited to those materials accessible using hand tools. Homogeneous materials were identified and located based on visual observation from accessible locations at the structure.

No sub-surface investigation (beyond 6"-12" below ground surface at the limited locations where and if the soil immediately adjacent to the vertical surfaces of the abutments and wing walls was able to be removed with a hand shovel) was performed by Watts to investigate for suspect ACM or underground utilities in the immediate vicinity of the structure. The review of the historical bridge records did not identify any suspect ACM associated with or below the wearing surface (pavement, concrete, asphalt, etc.) and as a result, no coring was conducted to inspect beneath it.

No asbestos inspection can entirely eliminate the uncertainty regarding the potential for undiscovered ACM. The presence of hidden suspect ACM, inconsistencies with use of different construction products or inconsistencies within the mixture of a given product, or unforeseen circumstances associated with the assumptions made to the homogeneity of suspect ACM could potentially result in the existence of additional suspect ACM and/or the unknown presence of ACM. The inspection performed by Watts was conducted exercising all appropriate due diligence and was intended to reduce, but not eliminate, any uncertainty or confusion regarding the potential for ACM associated with the structure. The information obtained from the review of the historical record plans, field observations, and the laboratory analysis of the bulk samples collected was used to determine the presence or the absence of ACM, and if present, its quantity. The conclusions made during the completion of this inspection report used best professional judgement and sound industry practices, however no guarantees or warranties are made, nor implied.

This asbestos inspection report is not intended to be utilized as a bid document for an asbestos abatement scope of work. This report is intended to satisfy the requirements of NYS Code Rule 56-5 and the NYSDOT TEM for asbestos inspections.

### 5.0 / Conclusions and Recommendations

The following ACM was identified during this investigation:

Dark Grey Sheet Packing (Pay Item 210.3312 Removal and Disposal of Bond Breaker/Filler ACM (BV14)
 Square Foot) – Approximately 190 square feet (95 square feet each side) of dark grey sheet packing is



- located between the top of the abutments and the bottom of the deck slab at both ends of the bridge at BIN 1022609.
- Abutment / Retaining Wall Caulking (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14)
   Foot) Approximately 2,179 linear feet (545 square feet for NYSDOL reporting purposes) of asbestos containing caulking is located within the vertical expansion joints of the abutments / retaining walls
   throughout the Kensington project corridor.
- Rail Post Grey Caulk (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot) –
   Approximately 2,457 linear feet (~205 square feet for NYSDOL reporting purposes) of asbestos-containing grey caulking is located around the perimeter of the metal guild rail post base plates located on the retaining walls throughout the northern portion of the project corridor.

The following inaccessible/assumed ACM was identified during this investigation:

 Waterproofing – Item 61 – Bituminous Material (Pay Item 210.481201 Removal and Disposal of Miscellaneous ACM (BV14) Square Foot) – Approximately 234,486 square feet of this inaccessible/assumed ACM is associated with the back side of the abutments and retaining walls, counterforts, and top of footer piles throughout the project corridor.

If any ACM will be disturbed during the proposed bridge demolition or overall Kensington Expressway renovation project, the disturbance is considered an asbestos abatement project and must be conducted by a properly licensed asbestos abatement contractor in accordance with all applicable regulations. NYSDOL Blanket Variance 14 provides certain reliefs from the NYSDOL ICR 56 requirements provided the ACM remains in a non-friable condition. The development of asbestos-related NYSDOT Special Notes for use during construction will need to be completed as part of the design process. In addition, all persons involved with the bridge renovation or reconstruction should be made aware of the presence of ACM at this structure.

If any additional untested suspect ACM is identified during subsequent investigations or during construction, the materials must be sampled by certified personnel and analyzed for asbestos content by a certified laboratory.



## Asbestos Bulk Sample Summary Table

BIN 1022609 - Best Street Bridge over Kensington Expressway (NYS Route 33) City of Buffalo, Erie County, New York P.I.N. 5512.52.123

### Identified asbestos-containing materials are in bold.

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022609-01	Tan Girder Paint	Center Pier, Middle	None Detected
1022609-02	Tan Girder Paint	Center Pier, South Side	None Detected
1022609-03	Tan Girder Paint	East Abutment, South Side	None Detected
1022609-04	Joint Filler at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022609-05	Joint Filler at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022609-06	Joint Filler at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022609-07	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022609-08	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022609-09	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022609-10	Vapor Barrier Jacket on Fiberglass Insulation	Center Pier, South Side	None Detected
1022609-11	Vapor Barrier Jacket on Fiberglass Insulation	Center Pier, South Side	None Detected
1022609-12	Vapor Barrier Jacket on Fiberglass Insulation	East Abutment, South Side	None Detected
1022609-13	Orange Bearing Pad	East Abutment, South	None Detected
1022609-14	Orange Bearing Pad	East Abutment, South Middle	None Detected



Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022609-15	Orange Bearing Pad	East Abutment, North Middle	None Detected
1022609-16	Dark Grey Headwall Sheet Packing	East Abutment, South	12.00% Chrysotile
1022609-17	Dark Grey Headwall Sheet Packing	East Abutment, South Middle	Positive Stop (Not Analyzed)
1022609-18	Dark Grey Headwall Sheet Packing	East Abutment, Middle	Positive Stop (Not Analyzed)
1022609-19	Silver/Orange Railing Paint	North Railing, Middle	None Detected
1022609-20	Silver/Orange Railing Paint	South Railing, Middle	None Detected
1022609-21	Silver/Orange Railing Paint	South Railing, West End	None Detected
1022609-22	Black Sidewalk Joint Filler	SW Quadrant, Between Sidewalk and Wing Wall	None Detected
1022609-23	Black Sidewalk Joint Filler	SE Quadrant, Between Sidewalk and Wing Wall	None Detected
1022609-24	Black Sidewalk Joint Filler	NW Quadrant, Between Sidewalk and Wing Wall	None Detected
1022609-25	Green Traffic Signal Pole Paint	SW Quadrant	None Detected
1022609-26	Green Traffic Signal Pole Paint	NW Quadrant	None Detected
1022609-27	Green Traffic Signal Pole Paint	NE Quadrant	None Detected
1022609-28	Dark Grey Deck Expansion Joint Sealer	South Sidewalk, West Expansion Joint	None Detected
1022609-29	Dark Grey Deck Expansion Joint Sealer	Center Median, East Expansion Joint	None Detected
1022609-30	Dark Grey Deck Expansion Joint Sealer	Center Median, West Expansion Joint	None Detected



# Appendix A

**Photos** 



Photo 1 – View to the north from the middle of the Best Street Bridge over Kensington Expressway (Route 33) (BIN 1022609).



Photo 2 - View to the east from the middle of the Best Street Bridge over Kensington Expressway (Route 33) (BIN 1022609).



Photo 3 - View to the south from the middle of the Best Street Bridge over Kensington Expressway (Route 33) (BIN 1022609).



Photo 4 – View to the west from the middle of the Best Street Bridge over Kensington Expressway (Route 33) (BIN 1022609).





Photo 5 - BIN plate located on the adjacent fence at the northeast quadrant of BIN 1022609.

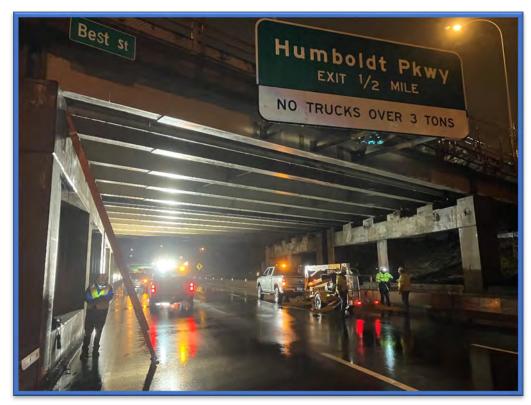


Photo 6 – View looking south towards the northeast side of BIN 1022609 during the night-time inspection that occurred after closing the EB Kensington Expressway (EB Route 33).



Photo 7 - Compressed asbestos sheet packing located on the abutment shelves at BIN 1022609 was confirmed as an ACM. Picture taken at the southeast quadrant of the bridge.



Photo 8 – Compressed asbestos sheet packing located on the abutment shelves at BIN 1022609 was confirmed as an ACM. Picture taken at the center of the east abutment.



Photo 9 - Retaining wall system within the Kensington Expressway project corridor that has an associated asbestos-containing caulking located within each expansion joint and an inaccessible/assumed asbestos-containing waterproofing located on the back sides of the abutments, retaining walls, counterforts, and tops of footer piles.

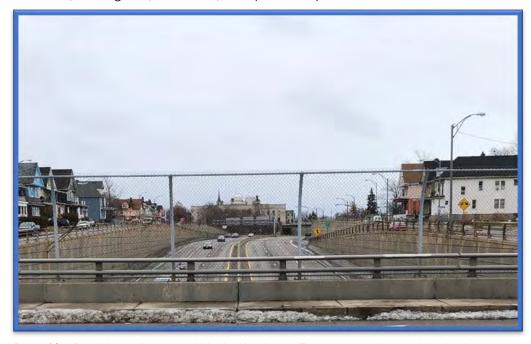


Photo 10 – Retaining wall system within the Kensington Expressway project corridor that has an associated asbestos-containing caulking located within each expansion joint and an inaccessible/assumed asbestos-containing waterproofing located on the back sides of the abutments, retaining walls, counterforts, and tops of footer piles.





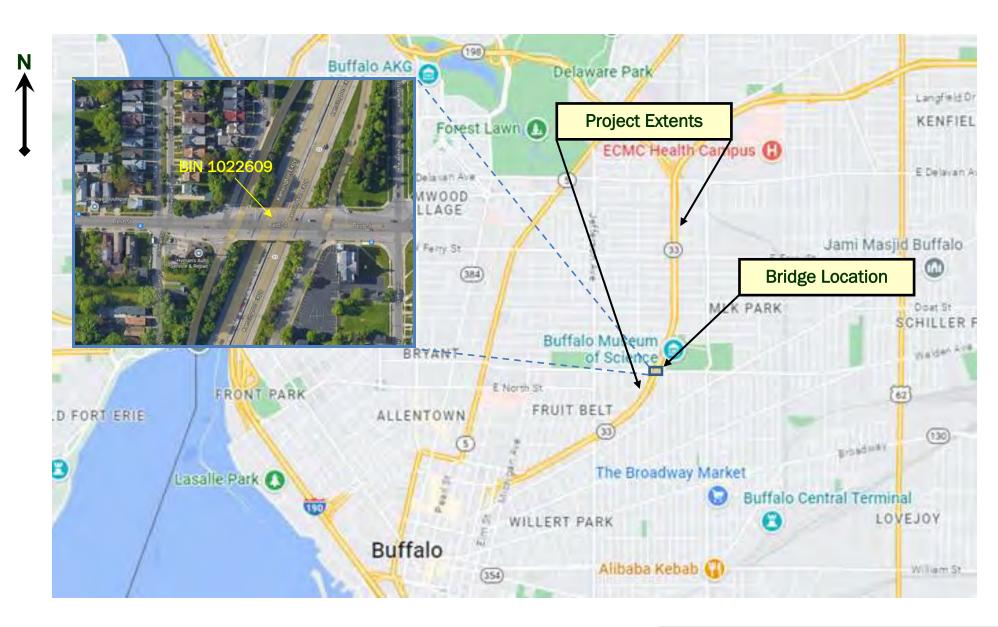
Photo 11 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

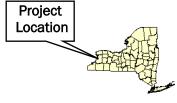


Photo 12 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

# Appendix B

**Figures** 







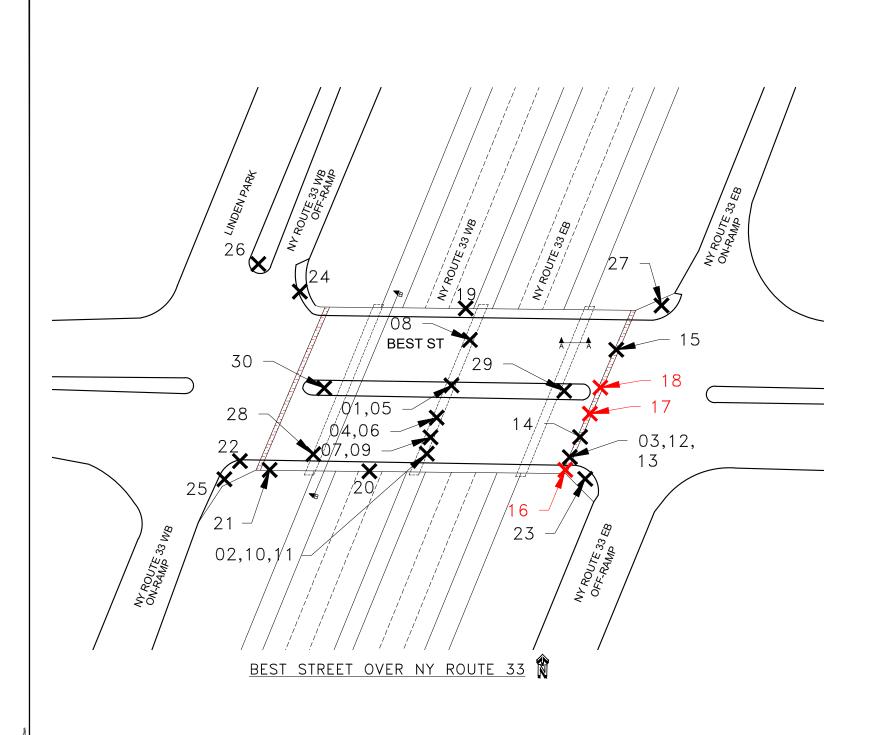
### FIGURE 1 - PROJECT LOCATION MAP

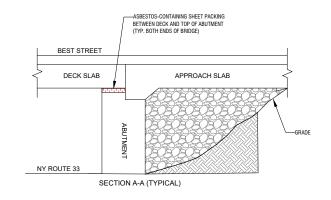
Best Street over Kensington Expressway (Rt 33) BIN 1022609 City of Buffalo, Erie County, New York

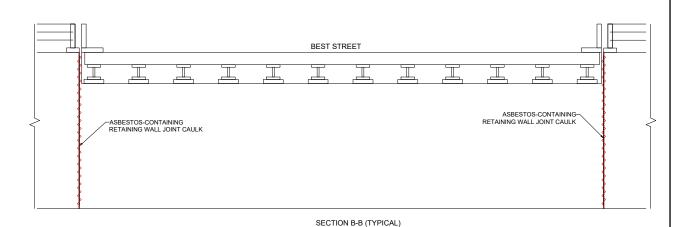
Not to Scale

June 2023

Source: Google Maps 2023.







LEGEND

ASBESTOS-CONTAINING SHEETPACKING

ASBESTOS-CONTAINING CAULK

FIGURE 2
ASBESTOS BULK SAMPLE LOCATIONS
BIN 1022609



BEST STREET OVER NY ROUTE 33 CITY OF BUFFALO, NEW YORK

NOT TO SCALE JULY 2023

SAMPLES ARE PREFIXED BY 1022609—
SAMPLES WERE COLLECTED ON MAY 3 AND 11, 2023.

INDICATES APPROXIMATE SAMPLE LOCATION

SAMPLE NUMBERS IN RED WERE IDENTIFIED TO BE ACM

# Appendix C

Laboratory
Analytical Report(s)
and
Chain-of-Custody Form(s)



EMSL Order: 142302268 Customer ID: WATT50

Customer PO: Project ID:

Attention:Matthew HolquistPhone:(716) 206-5100Watts Architecture & EngineeringFax:(716) 206-5199

95 Perry Street Received Date: 05/23/2023 3:36 PM Suite 300 Analysis Date: 05/25/2023 - 05/31/2023

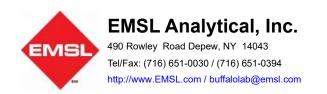
Buffalo, NY 14203 Collected Date: 05/10/2023

Project: 20220255 / PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY / BIN 1022609/Best St. over Kensington (Rt.

33)

### **Test Report: Asbestos Analysis of Bulk Material**

	Analyzed		Ne	on-Asbestos	
Test	Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID 1022609	9-01	Description	Tar Girder Paint		
1423022	68-0001	Homogeneity	Homogeneous		
PLM NYS 198.1 Friab	le				Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Rust		100.00% Other	None Detected
Sample ID 1022609	9-02	Description	Tar Girder Paint		
1423022	68-0002	Homogeneity	Homogeneous		
PLM NYS 198.1 Friab	le				Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	White/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	White/ Rust		100.00% Other	None Detected
Sample ID 1022609	9-03	Description	Tar Girder Paint		
1423022	68-0003	Homogeneity	Homogeneous		
PLM NYS 198.1 Friab	le				Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/31/2023	Gray/ Pink		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray/ Pink		100.00% Other	None Detected
Sample ID 1022609	9-04	Description	Joint Filler at Pier Barrie	er Wall Joints	
1423022	68-0004	Homogeneity	Homogeneous		
PLM NYS 198.1 Friab	le 05/25/2023	Black 20.00	0% Cellulose	80.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 1022609	9-05	Description	Joint Filler at Pier Barrie	er Wall Joints	
1423022	68-0005	Homogeneity	Homogeneous		
PLM NYS 198.1 Friab	le 05/25/2023	Black 20.00	)% Cellulose	80.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed



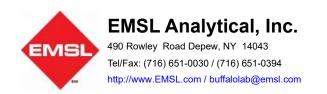
**EMSL Order:** 142302268 **Customer ID:** WATT50

Customer PO: Project ID:

## Test Report: Asbestos Analysis of Bulk Material

Non-Asbestos

		Analyzed		Non-Asbestos	
Те	st	Date	Color	Fibrous Non-Fibrous	Asbestos
Sample ID	1022609-06	3	Description	Joint Filler at Pier Barrier Wall Joints	
	142302268-0	0006	Homogeneity	Homogeneous	
PLM NYS 19	8.1 Friable	05/31/2023	Black	100.00% Non-fibrous (other	r) None Detected
PLM NYS 19	8.6 VCM				Not Analyzed
PLM NYS 19	8.6 NOB				Not Analyzed
TEM NYS 19	8.4 NOB				Not Analyzed
Sample ID	1022609-07	,	Description	Grey Caulk at Pier Barrier Wall Joints	
	142302268-0	007	Homogeneity	Homogeneous	
PLM NYS 19	8.1 Friable				Not Analyzed
PLM NYS 19	8.6 VCM				Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Gray	100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Gray	100.00% Other	None Detected
Sample ID	1022609-08	3	Description	Grey Caulk at Pier Barrier Wall Joints	
	142302268-0	008	Homogeneity	Homogeneous	
PLM NYS 19	8.1 Friable				Not Analyzed
PLM NYS 19	8.6 VCM				Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Gray	100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Gray	100.00% Other	None Detected
Sample ID	1022609-09	)	Description	Grey Caulk at Pier Barrier Wall Joints	
	142302268-0	1009	Homogeneity	Homogeneous	
PLM NYS 19	8.1 Friable				Not Analyzed
PLM NYS 19	8.6 VCM				Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Gray	100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Gray	100.00% Other	None Detected
Sample ID	1022609-10	)	Description	Vapor Barrier Jacket on Fiberglass Insulation	
	142302268-0	010	Homogeneity	Homogeneous	
PLM NYS 19	8.1 Friable				Not Analyzed
PLM NYS 19	8.6 VCM				Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Gray/ Black	100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Gray/ Black	100.00% Other	None Detected
Sample ID	1022609-11		Description	Vapor Barrier Jacket on Fiberglass Insulation	
	142302268-0	011	Homogeneity	Homogeneous	
PLM NYS 19	8.1 Friable				Not Analyzed
PLM NYS 19	8.6 VCM				Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Gray/ Black	100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Gray/ Black	100.00% Other	None Detected



EMSL Order: 142302268 Customer ID: WATT50

Customer PO: Project ID:

### **Test Report: Asbestos Analysis of Bulk Material**

Non-Asbestos Analyzed Non-Fibrous Color **Fibrous** Asbestos Test Date Sample ID 1022609-12 Description Vapor Barrier Jacket on Fiberglass Insulation 142302268-0012 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/31/2023 Gray/ Black/ 100.00% Other Inconclusive: None Detected Rust **TEM NYS 198.4 NOB** 05/31/2023 Gray/ Black/ 100.00% Other **None Detected** Rust Sample ID 1022609-13 Description Orange Bearing Pad 142302268-0013 Homogeneous Homogeneity PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/31/2023 Rust 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 100.00% Other Rust **None Detected** 1022609-14 Sample ID Orange Bearing Pad Description 142302268-0014 Homogeneity Homogeneous PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/31/2023 Gray/ Black/ 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Gray/ Black/ 100.00% Other **None Detected** Rust Sample ID 1022609-15 Description Orange Bearing Pad 142302268-0015 Homogeneous Homogeneity PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed Gray/ Rust **PLM NYS 198.6 NOB** 05/31/2023 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Gray/ Rust 100.00% Other None Detected Sample ID 1022609-16 Description Dark Gray Headwall Sheet Packing 142302268-0016 Homogeneity Homogeneous PLM NYS 198.1 Friable 05/25/2023 Black None 88.00% Non-fibrous (other) 12.00% Chrysotile **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB Not Analyzed TEM NYS 198.4 NOB** Not Analyzed Sample ID 1022609-17 Description Dark Gray Headwall Sheet Packing 142302268-0017 Homogeneity PLM NYS 198.1 Friable 05/25/2023 Positive Stop (Not Analyzed) **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB Not Analyzed TEM NYS 198.4 NOB Not Analyzed** 



EMSL Order: 142302268 Customer ID: WATT50

Customer PO: Project ID:

### **Test Report: Asbestos Analysis of Bulk Material**

Non-Asbestos Analyzed Non-Fibrous Color **Fibrous** Asbestos Test Date Sample ID 1022609-18 Description Dark Gray Headwall Sheet Packing 142302268-0018 Homogeneity PLM NYS 198.1 Friable 05/25/2023 Positive Stop (Not Analyzed) **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB Not Analyzed Not Analyzed TEM NYS 198.4 NOB** Sample ID 1022609-19 Description Silver/Orange Railing Paint 142302268-0019 Homogeneous Homogeneity PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/31/2023 Various 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Various 100.00% Other **None Detected** 1022609-20 Silver/Orange Railing Paint Sample ID Description 142302268-0020 Homogeneous Homogeneity PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed 05/31/2023 Silver/ Rust **PLM NYS 198.6 NOB** 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Silver/ Rust 100.00% Other **None Detected** Sample ID 1022609-21 Silver/Orange Railing Paint Description 142302268-0021 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM Not Analyzed PLM NYS 198.6 NOB** 05/31/2023 Various 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Various 100.00% Other **None Detected** Sample ID 1022609-22 Black Sidewalk Joint Filler Description 142302268-0022 Homogeneous Homogeneity PLM NYS 198.1 Friable 05/25/2023 Black 5.00% Cellulose 95.00% Non-fibrous (other) None Detected **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** Not Analyzed **TEM NYS 198.4 NOB Not Analyzed** 1022609-23 Black Sidewalk Joint Filler Sample ID Description 142302268-0023 Homogeneity Homogeneous 05/25/2023 PLM NYS 198.1 Friable Black 5.00% Cellulose 95.00% Non-fibrous (other) **None Detected PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** Not Analyzed **TEM NYS 198.4 NOB** Not Analyzed



**EMSL Order:** 142302268 **Customer ID:** WATT50

Customer PO: Project ID:

## Test Report: Asbestos Analysis of Bulk Material

### Non-Asbestos

		Analyzed		Non-As	sbestos	
Te	est	Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1022609-24	4	Description	Black Sidewalk Joint Filler		
	142302268-0	0024	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable	05/31/2023	Black		100.00% Non-fibrous (other)	None Detected
PLM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB					Not Analyzed
TEM NYS 19	8.4 NOB					Not Analyzed
Sample ID	1022609-2	5	Description	Green Traffic Signal Pole Pa	int	
	142302268-0	0025	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Various		100.00% Other	None Detected
Sample ID	1022609-26	6	Description	Green Traffic Signal Pole Pa	int	
	142302268-0	0026	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Various		100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Various		100.00% Other	None Detected
Sample ID	1022609-27	7	Description	Green Traffic Signal Pole Pa	int	
	142302268-0	0027	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Green/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Green/ Rust		100.00% Other	None Detected
Sample ID	1022609-28	8	Description	Dark Gray Deck Expansion	Joint Sealer	
	142302268-0	0028	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	05/31/2023	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Brown		100.00% Other	None Detected
Sample ID	1022609-29		Description	Dark Gray Deck Expansion	Joint Sealer	
	142302268-0	0029	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	08.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Black		100.00% Other	None Detected



EMSL Order: 142302268 Customer ID: WATT50

**Customer PO:** Project ID:

## Test Report: Asbestos Analysis of Bulk Material

N	0	n	-/	۱s	b	е	s	tc	S

	Anal	vzed		N	on-Asbestos	
Test		-	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID 10	022609-30		Description	Dark Gray Deck Expans	sion Joint Sealer	
14	42302268-0030		Homogeneity	Homogeneous		
PLM NYS 198.1	l Friable					Not Analyzed
PLM NYS 198.6	S VCM					Not Analyzed
PLM NYS 198.6	<b>S NOB</b> 05/31	/2023	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4	NOB 05/31	/2023	Black		100.00% Other	None Detected



EMSL Order: 142302268 Customer ID: WATT50

**Customer PO:** Project ID:

### Test Report: Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods . The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

**Report Comments:** 

Sample Receipt Date: 5/23/2023 Sample Receipt Time: 3:36 PM Analysis Completed Date: 5/31/2023 Analysis Completed Time: 7:38 AM

Analyst(s):

Hannah Parkes PLM NYS 198.1 Friable (2)

Samples reviewed and approved by:

Jessica Kroczynski PLM NYS 198.1 Friable (5)

Tom Hanes TEM NYS 198.4 NOB (21)

Rhonda McGee, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government . Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

192303768

# **WATTS ARCHITECTS & ENGINEERS**

			ASBES	TOS BULK SAMPLE CHAIN-OF-CUS	STODY				
lient:	New York	State Depar	tment of Tran	sportation / LaBella			Date:	5/23/23	
roject:		PIN 5512.5	2, Kensington	Rt 33, Buffalo, Erie Co., NY	Wa	tts Project	t No.:	20220255	
uilding /	Location:	BIN 10226	609/Best St. c	over Kensington (Rt. 33)					
ontact:		Matt Hold	quist	at (716) 435-1724	Analysis Requester	d:	Turna	round Time Requeste	d:
mail Pre	liminary Re	esults to:		mholquist@watts-ae.com	ELAP 198.1 (Friable PLM)	X	24 Hr.	5 Day	
fail Repo	ort & Invoid	ce to:	Watts Arc	hitects & Engineers	ELAP 198.6 (NOB PLM)	X	48 Hr.	1 Week	X
			95 Perry S	Street, Buffalo, NY 14203	ELAP 198.4 (NOB TEM)	X	72 Hr.	2 Weeks	
					Other (Specify)		96 Hr.		

Sample	ple Material Description	Material Description HM Sample Location		Laboratory Res	
Number			Sample Location	PLM	TEM
1022609-01	Tan Girder Paint	1	Center Pier, Middle		
1022609-02	Tan Girder Paint	1	Center Pier, South Side		
1022609-03	Tan Girder Paint	1	East Abutment, South Side		
1022609-04	Joint Filler at Pier Barrier Wall Joints	2	Center Pier Barrier Wall Joints, South		
1022609-05	Joint Filler at Pier Barrier Wall Joints	2	Center Pier Barrier Wall Joints, North		
1022609-06	Joint Filler at Pier Barrier Wall Joints	2	Center Pier Barrier Wall Joints, South		
1022609-07	Grey Caulk at Pier Barrier Wall Joints	3	Center Pier Barrier Wall Joints, South		
1022609-08	Grey Caulk at Pier Barrier Wall Joints	3	Center Pier Barrier Wall Joints, North		
1022609-09	Grey Caulk at Pier Barrier Wall Joints	3	Center Pier Barrier Wall Joints, South		
1022609-10	Vapor Barrier Jacket on Fiberglass Insulation	4	Center Pier, South Side		
1022609-11	Vapor Barrier Jacket on Fiberglass Insulation	4	Center Pier, South Side		
1022609-12	Vapor Barrier Jacket on Fiberglass Insulation	4	East Abutment, South Side		

Sampled By: Matthew E. Holquist Made & Holgary Date: 05/10/23 Time: 17:00 Received By: Date: Matthew E. Holquist Watth Coff Date: 05/23/23 Time: 15: 2 Received By: Relinquished By: Date: Comments:

Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.

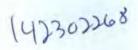
HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions



Page: 1 of 3

Page: 2 of

Page



# WATTS ARCHITECTS & ENGINEERS SRESTOS BULK SAMPLE CHAIN-OF-CUSTODY

			ASBI	ESTOS BULK SAMPLE CHAIN-OF-CUS	STODY				
Client:						Date:	5/23/23		
Project:				Wa	t No.:	.: 20220255			
Building / Location: BIN 1022609/Best St. over Kensington (Rt. 33)									
Contact:		Matt Holquist at (716) 435-1724		Analysis Requested:		Turnaround Time Requested:			
Email Preliminary Results to:		mholquist@watts-ae.com	ELAP 198.1 (Friable PLM)	X	24 Hr.	5 Day			
Mail Report & Invoice to:		Watts A	rchitects & Engineers	ELAP 198.6 (NOB PLM)	X	48 Hr.	1 Week	X	
			95 Perr	y Street, Buffalo, NY 14203	ELAP 198.4 (NOB TEM)	X	72 Hr.	2 Weeks	
					Other (Specify)		96 Hr.		

Sample	Material Description	нм	Sample Location	Laboratory Results		
Number	material Description	HIM	Sample Location	PLM	TEM	
1022609-13 Orange Bearing Pad		5	East Abutment, South			
1022609-14	Orange Bearing Pad	5	East Abutment, South Middle			
1022609-15	Orange Bearing Pad	5	East Abutment, North Middle			
1022609-16	Dark Gray Headwall Sheet Packing	6	East Abutment, South			
1022609-17	Dark Gray Headwall Sheet Packing	6	East Abutment, South Middle			
1022609-18	Dark Gray Headwall Sheet Packing	6	East Abutment, Middle			
1022609-19	Silver/Orange Railing Paint	7	North Railing, Middle			
1022609-20	Silver/Orange Railing Paint	7	South Railing, Middle			
1022609-21	Silver/Orange Railing Paint	7	South Railing, West End			
1022609-22	Black Sidewalk Joint Filler	8	SW Quadrant, Between Sidewalk and Wing Wall			
1022609-23	Black Sidewalk Joint Filler	8	SE Quadrant, Between Sidewalk and Wing Wall			
1022609-24	Black Sidewalk Joint Filler	8	NW Quadrant, Between Sidewalk and Wing Wall			

Sampled By:	Matthew E. Holquist Madda & Holgary Date: 05/10/23 Time: 17:00	Received By:	Date:
Relinquished By:	Matthew E. Holquist Matthe H Date: 05/23/23 Time: 15 30	Received By:	Date:
Comments:	Stop at First Positive for each HM. Analyze NOB materials by TEM if N	Non-ACM by PLM.	

HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

BY: 97 3:3

Page

1423 02268

# WATTS ARCHITECTS & ENGINEERS SRESTOS BULK SAMPLE CHAIN-OF-CUSTODY

			ASBES	TOS BULK SAMPLE CHAIN-OF-CUS	STODY				
ient:						Date:	5/23/23		
oject:				Wa	No.:	20220255			
uilding /								3.7	
ontact:	: Matt Holquist at (716) 435-1724		Analysis Requested	1:	Turnaround Time Requested:				
mail Preliminary Results to: mholquist@watts-ae.co		mholquist@watts-ae.com	ELAP 198.1 (Friable PLM)	X	24 Hr.	5 Day			
ail Report & Invoice to: Watts A		Watts Arch	nitects & Engineers	ELAP 198.6 (NOB PLM)	X	48 Hr.	1 Week	X	
			95 Perry Street, Buffalo, NY 14203		ELAP 198.4 (NOB TEM) X	X	72 Hr.	2 Weeks	
					Other (Specify)		96 Hr.		

Sample		1004	Canada Landilan	Laboratory Results		
Number	Material Description	НМ	Sample Location	PLM	TEM	
1022609-25	Green Traffic Signal Pole Paint	9	SW Quadrant			
1022609-26	Green Traffic Signal Pole Paint	9	NW Quadrant			
1022609-27	Green Traffic Signal Pole Paint	9	NE Quadrant			
1022609-28	Dark Gray Deck Expansion Joint Sealer	10	South Sidewalk, West Expansion Joint			
1022609-29	Dark Gray Deck Expansion Joint Sealer	10	Center Median, East Expansion Joint			
1022609-30	Dark Gray Deck Expansion Joint Sealer	10	Center Median, West Expansion Joint	= )  = = =		

Sampled By:	Matthew E. Holquist Mada & Holy Date: 05/10/23 Time: 17:00	Received By:	Date:	_
Relinquished By	Matthew E. Holquist Watth Et Date: 05/23/23 Time: 15-30	Received By:	Date:	_
Comments:	Stop at First Positive for each HM. Analyze NOB materials by TEM if	Non-ACM by PLM.		
	UM- Hamadanagus Matarial If Varmigulita is detected of	age analysis and contact the	Watts contact for further instructions	

MAY 2 3 2023

Page: 3 of

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# Appendix D

License(s) and Certification(s)



### New York State - Department of Labor

Division of Safety and Health License and Certificate Unit State Campus, Building 12 Albany, NY 12240

### ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C. Suite 300 95 Perry Street

Buffalo, NY 14203

FILE NUMBER: 12-68007 LICENSE NUMBER: 68007 LICENSE CLASS: RESTRICTED DATE OF ISSUE: 09/01/2022 EXPIRATION DATE: 09/30/2023

STREET, STREET

Duly Authorized Representative - Kevin Janik:

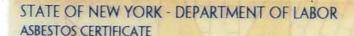
This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

SH 432 (8/12)

Amy Phillips, Director For the Commissioner of Labor









MATTHEW E HOLQUIST CLASS(EXPIRES) D INSP(02/24) I PD (02/24)

> CERT# 01-08239 DMV# 346423686

MUST BE CARRIED ON ASBESTOS PROJECTS



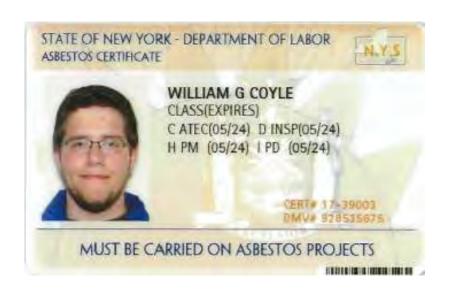
EYES BLU HAIR BLN HGT 5' 11" IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

## **Matthew E. Holquist**

D - Inspector

I - Project Designer







01213 006775315 25

EYES BRO HAIR BRO HGT 6' 00" IF FOUND RETURN TO: NYSDOL - L&C UNIT ROOM 161A BUILDING 12 STATE OFFICE CAMPUS ALBANY NY 12240

### William Coyle

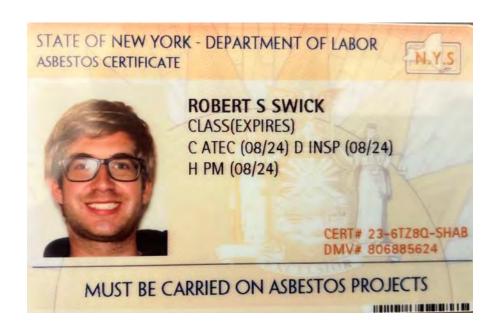
C - Air Sampling Technician

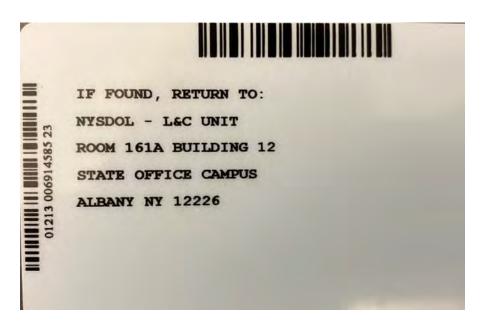
D - Inspector

H - Project Monitor

I - Project Designer







#### **Robert Swick**

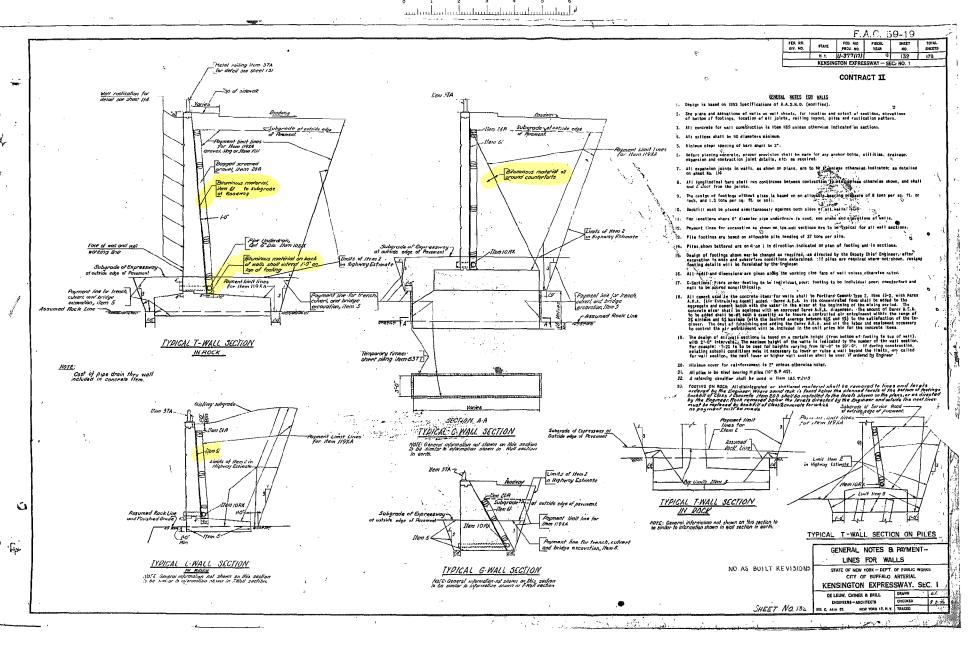
C - Air Sampling Technician

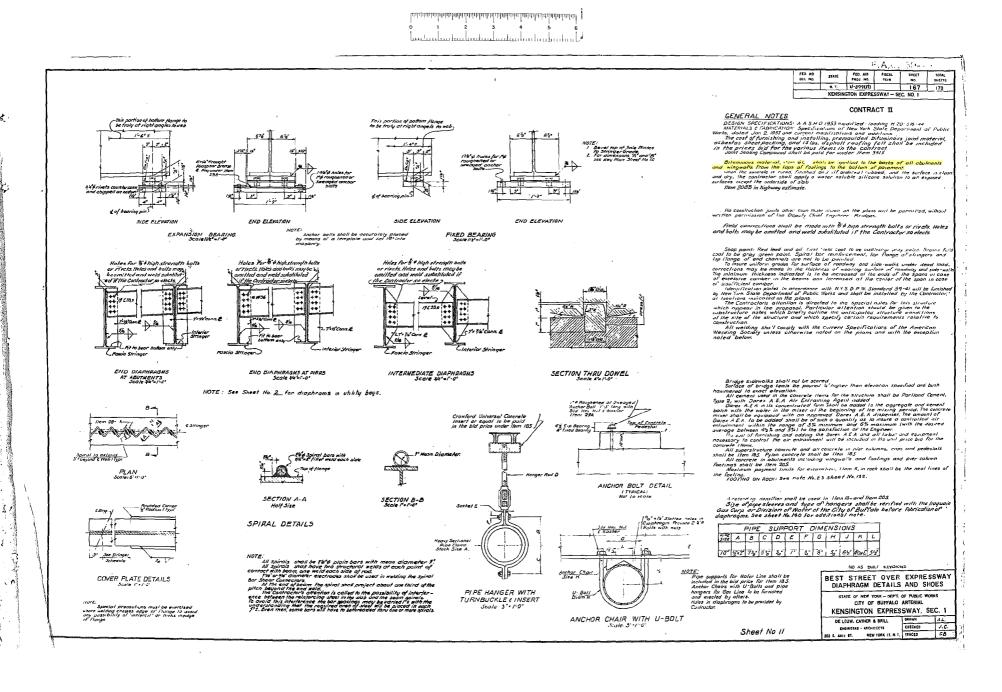
D - Inspector

H - Project Monitor

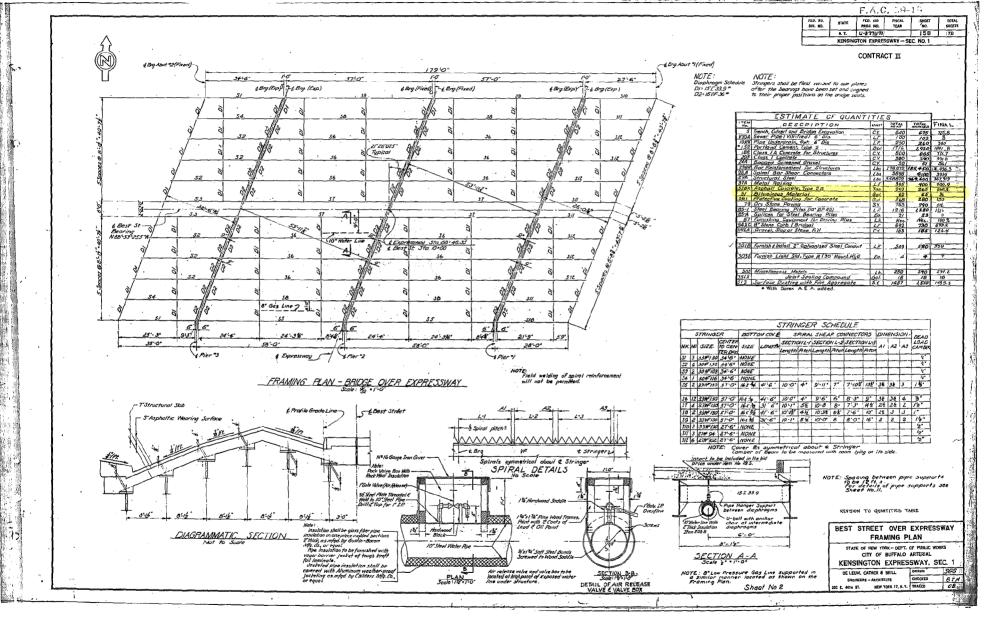
## Appendix E

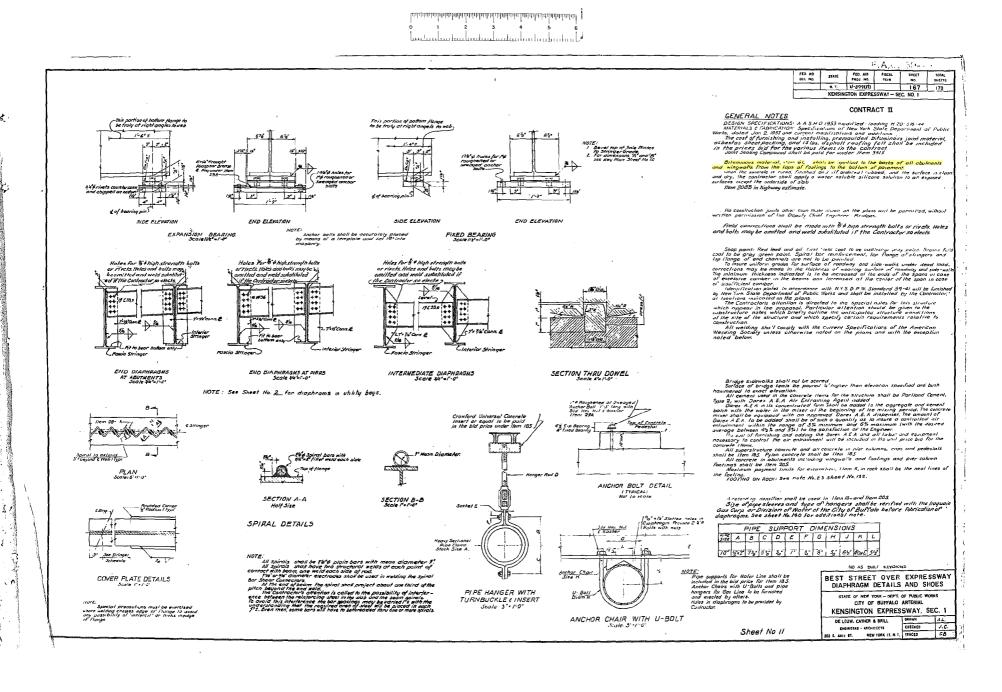
Previous ACM Report(s)
and
Asbestos-Related
Record Plan and
Project Information

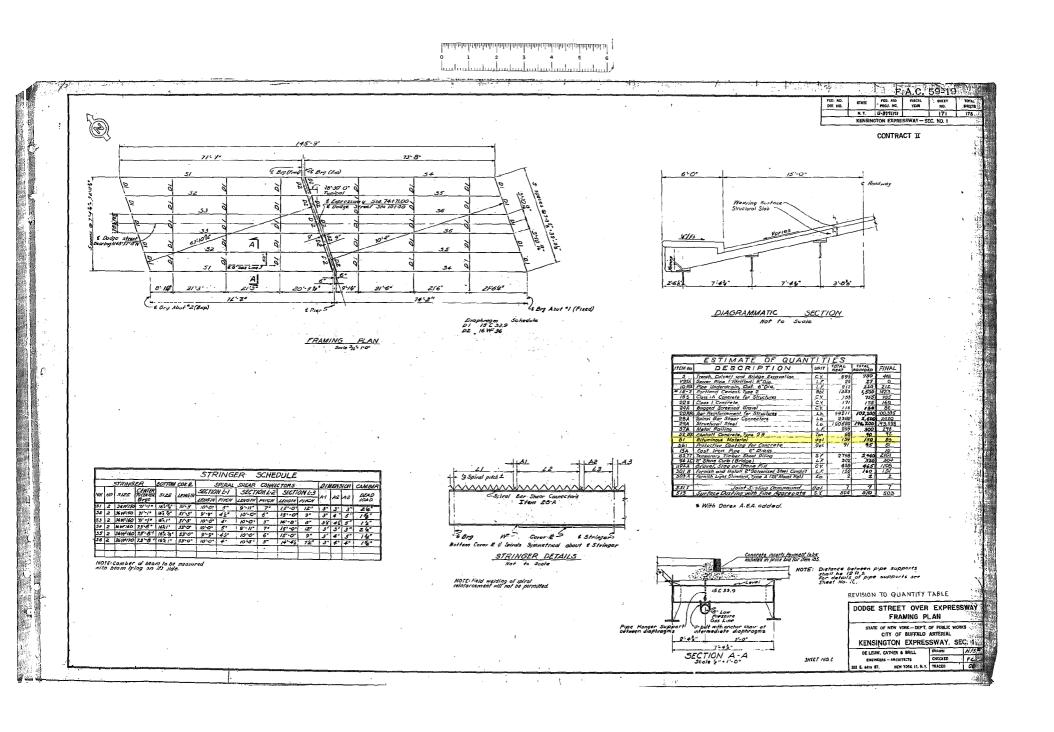


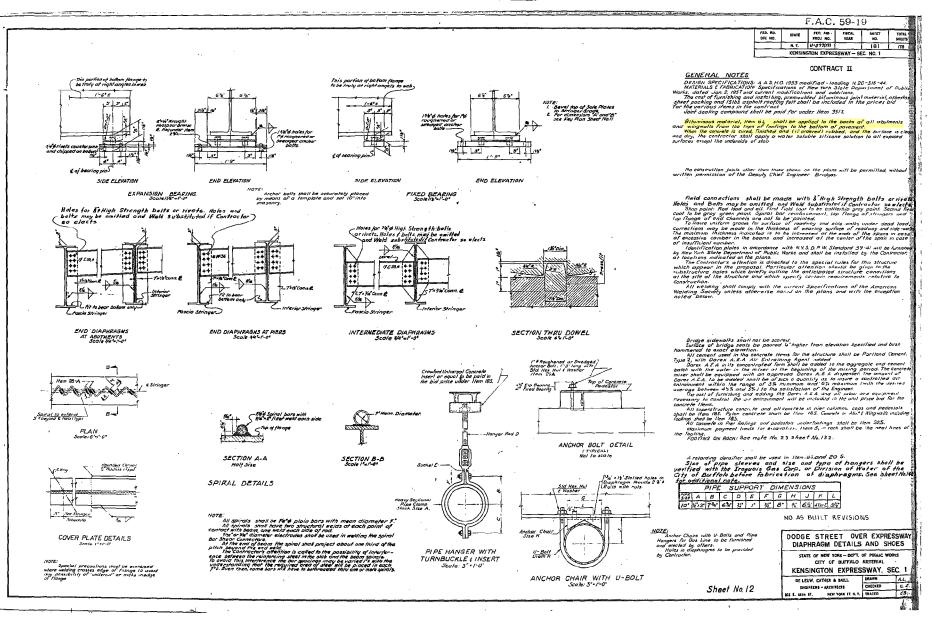


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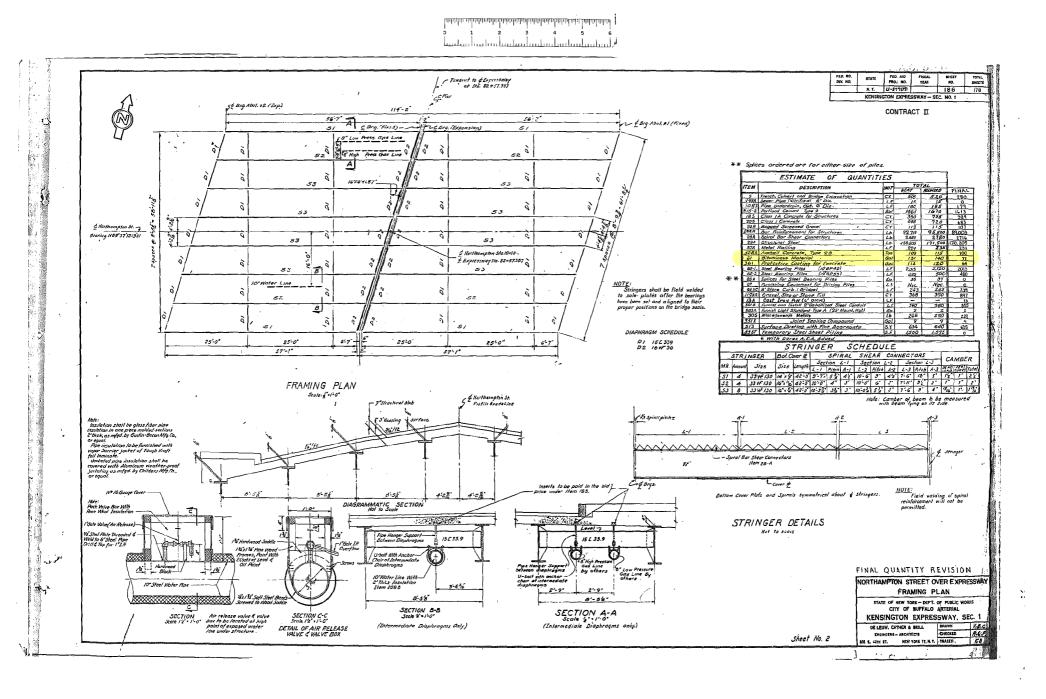


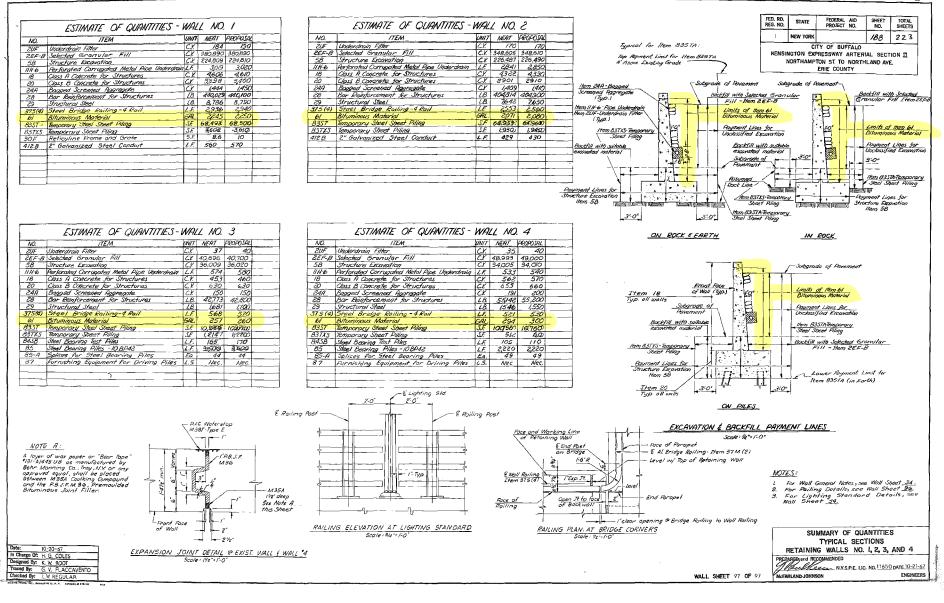


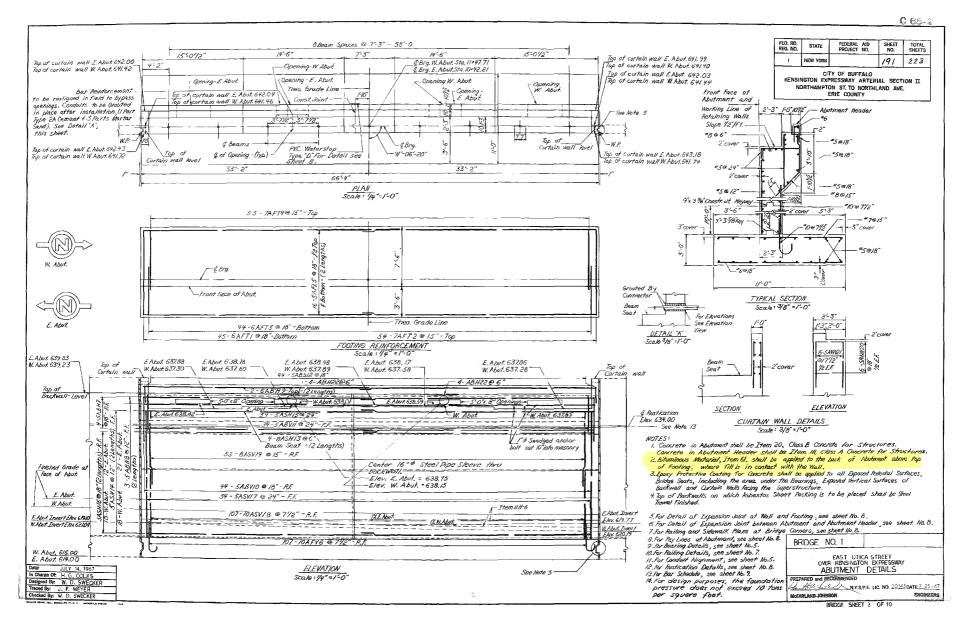


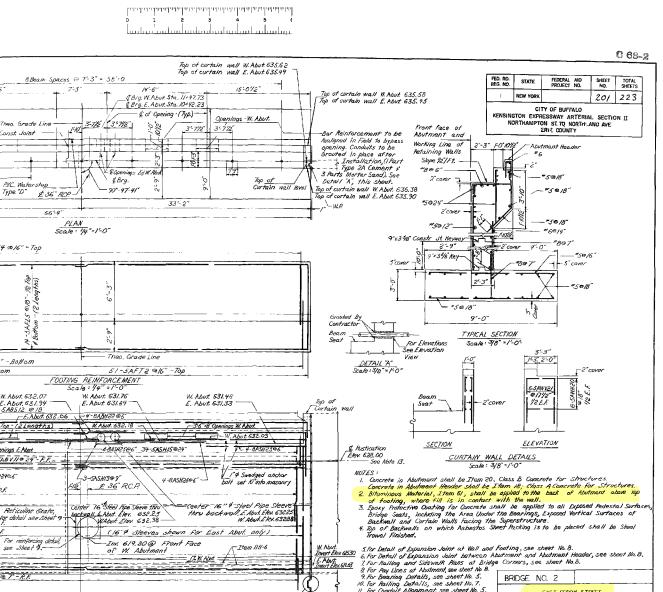


خليك









MEFARI AND JOHNSON

BRIDGE SHEET 3 OF 10

ENGINEERS

Curtain wall level 30-5AFT4 @16"-Top - Front Face of Abut E. Abut 44 - SAF73 9 18" - BoHom 45-5AFT/@ 18" Bottom W. Abut. 633.47 W.Abut 631.47 W. Abut. 632.07 E. Abut. 633,28 Curtain wall E. Abut. 631.35 E. Abut. 631.94 44-5A8512 @18 E. Abut. 631.64 Top of Backwall-Level Top (2 Lengths) 3'-6" × 8" Openings E. Abut. 34 - SABVII @ 24"- F.F. SASHIP @ 12" - (2 Lengths) ~ 4-8ASH24®6" Y-BACH2ROK" Finished Grade at 57-6ASV/9@14" -R.F. 3-5AB#8 E. Abut recriculine Grate, for detail see Sheet 44 - 5A8VIO @ 18" - R.F. W. Abut 34-5ASV17 @24" - F.F. E. Abut. Invert Elev. 6/5.29 see Sheet 9 .--115 -8ASV18 @ 7" - R.F. W.Abut. Invert Elev. 614.64 ! For Hailing and Solewark rains of Diff 8 For Pay Lines at Abutment, see sheet No. 5. 9. For Beazing Details, see sheet No. 7. 11. For Conduit Allynment, see sheet No. 5. 115-8AFV6@7"-R.F. E. Ab<u>ut. 611.00</u> W. Abut. 611.00 EAST FERRY STREET 12. For Rustication Details, see sheet No. 8. OVER KENSINGTON EXPRESSWAY **ELEVATION** 13. For Bar Schedule, see sheet No. 9. 14. For design purposes, the Foundation Pressure does not exceed 10 tons JULY 14 196 ABUTMENT DETAILS See Note 5 In Charge Of: H. G. COLES Scala: 1/4"=1'-0" PREPARED and RECOMMENDED Designed By: W. D. SWECKER Traced By: J. F. MEYER 1 7 - 1 - 1 NYSPE LIC. NO. 20143 DATE 7-25-6 per square foot

15:01/2

Top of

Openings-E. Abut.

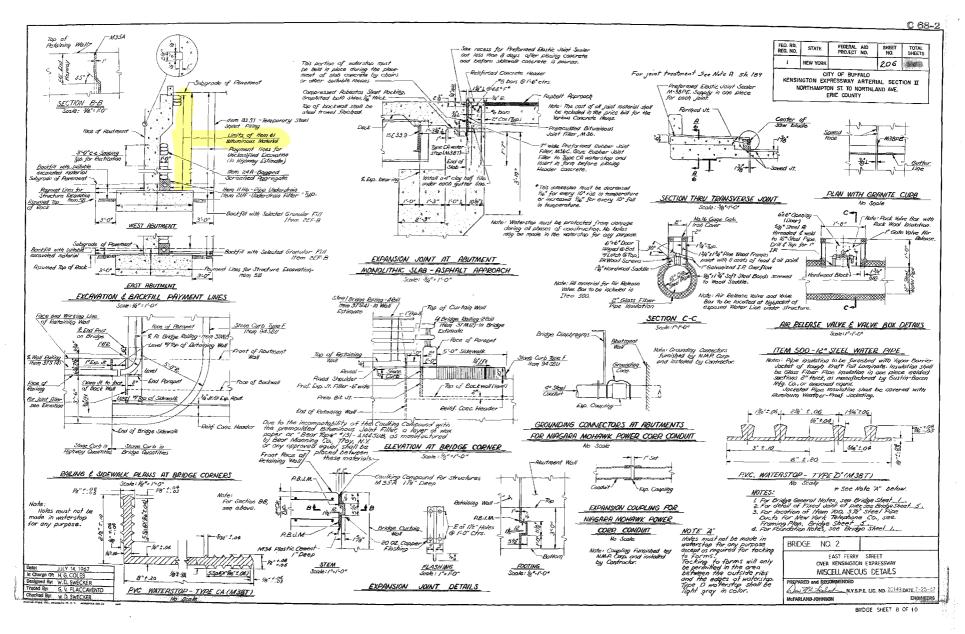
Top of curtain wall W. Abut. 635.59

Top of curtain wall E. Abut. 635.47

Top of curtain wall W. Abut. 635.63. Top of curtain wall E. Abut. 635.57

Top of curtain wall W. Abut. 636.29. Top of curtain wall E. Abut. 636.12

Checked By: W. D. SWECKER



## **Asbestos-Containing Materials Inspection**

FOR

BIN 1022610 Dodge Street over Kensington Expressway (Rt. 33) City of Buffalo, Erie County, New York

PREPARED FOR

LaBella Associates 300 State St #201 Rochester, NY 14614

FOR SUBMISSION TO

New York State Department of Transportation Region 5

100 Seneca Street

Buffalo, NY 14203

PIN - 5512.52.123 D038277 Watts Project No. 20220255 August 2023, Revised September 2023

Submitted by:

Watts Architects &Engineers



## Watts Project Contact and Asbestos Fact Sheet



#### Name and Address of Building/Structure

BIN 1022610 - Dodge Street Bridge over

Kensington Expressway (NYS Route 33)

City of Buffalo, Erie County, New York

#### Name and Address of Building/Structure Owner

New York State Department of Transportation

50 Wolf Road

Albany, New York 12232

#### Name of the Firm & Persons Conducting the Inspection

Watts Architects & Engineers

Matthew E. Holquist (NYSDOL Cert #01-08239)

Robert S. Swick (NYSDOL Cert #20-05731)

William G. Coyle (NYSDOL Cert #17-39002)

#### Date(s) the Inspection Was Conducted

May 3 & 10, 2023



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Figure 2 – Asbestos Bulk Sample Locations

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Appendix D – License(s) and Certification(s)

Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information



#### 1.0 / Introduction

Watts Architects & Engineers, D.P.C. (Watts) was retained by New York State Department of Transportation (NYSDOT), in conjunction with LaBella Associates, D.P.C. (LaBella) being the lead Design Engineers for the Kensington Expressway Project (PIN 5512.52), to complete an Asbestos-Containing Materials (ACM) Inspection of the Dodge Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022610) as part of the overall larger project, located in the City of Buffalo, Erie County, New York. The overall PIN 5512.52 project includes the covering of the Kensington Expressway between Dodge Street and Sidney Street, with the purpose of re-creating the original Humboldt parkway setting that existed prior to the construction of the expressway, while maintaining the expressway as is, and at its current capacity. The project involves the demolition of five bridge structures and associated adjacent retaining walls throughout the project corridor along the Kensington Expressway. A separate report was prepared for each of the bridge structures throughout the project corridor, which includes:

- BIN 1022610 Dodge Street Bridge over NYS Route 33
- BIN 1022620 Northampton Street Bridge over NYS Route 33
- BIN 1022630 East Utica Street Bridge over NYS Route 33
- BIN 1022640 East Ferry Street Bridge over NYS Route 33
- BIN 1022609 Best Street Bridge over NYS Route 33

Since the overall retaining wall system throughout the project corridor isn't specifically associated with a single bridge, the ACM information associated with all of the retaining wall structures throughout the overall project corridor is summarized within each of the bridge reports noted above (the information is redundant). The information and estimated quantities are based upon the project limits at the time of reporting.

See Figure 1 – Project Location Map within **Appendix B – Figures**. The purpose of the bridge inspection was to identify and sample suspect ACM which may require abatement prior to or during demolition of the structure. The inspection was limited to the review of available records and examination of the areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. The following information summarizes the results of the investigation.

#### 2.0 / Inspection Results

The inspection involved the review of available historical record plans and previously completed asbestos inspection reports in an attempt to identify known or suspect ACM and an onsite inspection that fulfilled the NYSDOT methodology of collecting three (3) bulk samples for each identified homogeneous suspect ACM. Because the original asbestos survey was completed in 2002 for this bridge, additional samples of previously tested suspect ACM were required in order to comply with current sampling regulatory protocol. Watts collected of a total of fifteen (15) bulk samples to represent the six (6) identified suspect ACM that are present at the structure (and were not previously sampled or addition samples were required to supplement the sample count to current regulatory protocols). ACM is defined as any material containing more than one percent (1%) of asbestos. Based on the information obtained during the records review, laboratory analysis of bulk samples collected as part of this investigation, previous sampling and analysis (if applicable), and visual observations, the following information regarding ACM has been identified at BIN 1022610 – Dodge Street Bridge over Kensington Expressway (NYS Route 33).

#### Confirmed Asbestos-Containing Materials (ACM)

Based on the record plan review, previous ACM inspection reports, subsequent field inspection, and laboratory analysis of collected samples, the following ACM was identified:



Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Abutment / Retaining Wall Caulking <sup>1</sup>	Within Retaining Wall Vertical Expansion Joints (One at Each Corner of the Bridge and Located Every 90 Linear Feet of Retaining Wall)	~2,179 LF (~545 SF for NYSDOL Reporting Purposes)	Non-Friable	Fair to Good	210.3411
Sheet Packing <sup>1</sup>	East End of Bridge Between Deck & Abutment	~94 SF	Non-Friable	Good	210.3312
Rail Post Base Grey Caulk	Base of Metal Guide Rail Posts on Top of the Retaining Walls in the Northern Portion of the Project Corridor	2,457 LF (~205 SF for NYSDOL Reporting Purposes)	Non-Friable	Good	210.3411

<sup>1 -</sup> ACM was previously identified during a former ACM survey/inspection. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding this ACM.

#### **Confirmed ACM Details**

During the record plan review, previous ACM inspection reports, and onsite inspection, the following ACM was identified:

#### Abutment / Retaining Wall Caulking

The asbestos-containing caulking associated with this bridge was previously tested (and referred to as Brown Joint Sealer) and identified as an ACM during the 2002 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report. This ACM is homogeneous with the asbestos-containing abutment / retaining wall caulking that has been identified throughout the Kensington project corridor.

An asbestos-containing caulking is located within the vertical expansion joints of the retaining walls along both sides of the Kensington Expressway (NYS Route 33) project corridor. There are wall joints spaced out approximately every 30 linear feet along the retaining wall, with an expansion joint (filled with a non-ACM joint filler and covered with the asbestos-containing caulking) being located at every third joint. The two joints in between the expansion joints are each control joints with no joint fillers or ACM caulking. The control joints are tooled in as stress relief points that provide a potential cracking location within the joint itself as an effort to prevent wall surface cracking. The expansion joints (with non-ACM joint filler and asbestos-containing caulking) allow for expansion/contraction of the concrete wall. In addition to the 30' spaced two control joints and one expansion joint, there are additional expansion joints (with associated asbestos-containing caulking) in close proximity at each corner of the project corridor bridges.

The ACM was generally observed to be intact in most expansion joints, however, it was observed that the asbestos-containing caulking was no longer intact within some of the expansion joints or was sometimes covered with a newer, non-asbestos-containing caulking. It appears that the coloration of the caulking has been affected by staining and weathering, as it is not consistent in color throughout the corridor. In general, the asbestos-containing caulking was observed to be grey in color, but was sometimes darker or lighter grey, sometimes lighter or darker tan to brown. Thus, for estimating purposes, it is assumed that all of the caulking present within each expansion joint throughout the project corridor is an ACM (or is a newer non-ACM caulking but is applied directly onto the remnant asbestos-containing caulking).



It is estimated that the total amount of caulking associated with the retaining wall system throughout the project corridor is approximately 2,179 linear feet. The caulking is approximately 3" wide on average and there are a total of 108 vertical expansion joints that extend from the Kensington Expressway (NYS Route 33) roadway surface up the entire retaining wall and also extending along the horizontal surface (approximately 1.5') on top of the retaining wall. For NYSDOL reporting purposes, this is equivalent to approximately 545 square feet in total (note that NYSDOL considers this type of ACM a reportable quantity in square feet, while NYSDOT considers caulking a linear foot pay item). The approximate locations of the ACM caulking that are in close proximity to the bridge are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

#### Rail Post Base Grey Caulk

The asbestos-containing grey caulk associated with the metal guide rail post bases located on the retaining walls throughout the northern portion of the project area for the Kensington Expressway Project (PIN 5512.52) was previously tested and identified as an ACM during previous asbestos inspection reports. This ACM is not located in direct proximity to BIN 1022610, however there is a significant quantity of this ACM that will be disturbed as part of the overall project, thus the information has been included within all of the reports associated with the project.

This ACM has been confirmed present in association with the metal guide rail post bases throughout the northern portion of the project corridor where the originally installed metal guide rail system still remains. The southern portion of the project corridor has a different guide rail system that consists of recently installed decorative concrete guide rails that do not have associated ACM (however, the retaining walls below these areas still do have the asbestos-containing caulking associated with the expansion joints).

Grey asbestos-containing caulking compound is located around the perimeter of the guide rail post base plates associated with the retaining walls in the northern portion of the project corridor. It is important to note that the base plates associated with the guide rails and fencing posts located on the bridge curb/knee wall superstructure are of a different construction and do not have any associated ACM. Each rectangular guide rail post base plate with ACM is approximately 8" x 14" (a total of 3.67 linear feet per plate) and has an approximate 1" thick bead of caulk around the perimeter of each plate. There are approximately 670 guide rail post base plates with ACM associated with the retaining walls throughout the northern portion of the project corridor. Thus, it is estimated that the total amount of grey caulking compound associated with the guide rail post base plates is approximately 2,457 linear feet (205 square feet for NYSDOL reporting purposes). The ACM was generally observed to be intact in most locations. The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within Appendix B – Figures and can also be seen within Appendix A – Photos. In addition, details regarding the various retaining walls throughout the project corridor completed by design engineers from LaBella involved with the retaining wall design are included within Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information.

#### **Dark Grey Sheet Packing**

The asbestos-containing sheet packing associated with this bridge was previously tested and identified as an ACM during the 2002 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

Dark grey asbestos-containing sheet packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge. Most of the material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations. It is estimated that the total amount of dark grey sheet packing on the bridge is approximately 94 square feet (approximately 47 square feet per abutment). The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**.

#### **Inaccessible Assumed ACM**

During the record plan review, previous ACM inspection reports, and onsite inspection, the following inaccessible assumed ACM was identified.



Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Waterproofing Item 61 – Bituminous Material	Back Side of Abutments and Retaining Walls, Counterforts, Top of Footer Piles	~234,486 SF	Non-Friable	Unknown	210.481201

#### **Inaccessible Assumed ACM Details**

#### Waterproofing - Item 61 - Bituminous Material

This suspect ACM was identified during the record plan review in association with the retaining walls, counterforts, top of the footer piles, and abutments throughout the project corridor. According to the original Kensington Expressway construction documents, this suspect ACM was applied to the following locations: the back sides of the retaining walls; around all counterforts; extended 1' on top of the footing; and, the backs of all abutments and wingwalls from the top of footings to the bottom of pavement. As a result of this suspect ACM being buried beneath the concrete and asphalt roadway surface and the concrete sidewalks, this suspect ACM could not be accessed for sampling and subsequent submission for laboratory analysis. It is recommended that the material be tested for asbestos content prior to construction activities and any asbestos abatement because more often than not, Item 61 – Bituminous Material is found not to be an ACM, however, on occasion it is identified as an ACM, thus it must be assumed to be ACM.

It is estimated that the total amount of the suspect ACM Waterproofing – Item 61 – Bituminous Material is approximately 234,486 square feet throughout the project corridor. Quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design and the record plan information that details the approximate locations of this inaccessible/assumed ACM are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan Information**.

For a complete listing of the suspect ACM that was sampled as part of this inspection, see the Asbestos Bulk Sample Summary Table that is included later within this report.

#### 3.0 / Inspection Procedures

Watts reviewed information available via NYSDOT's Bridge Data Information System (BDIS) and Record Plans that were made available by NYSDOT, Region 5.

A New York State Department of Labor (NYSDOL) certified asbestos inspector from Watts visited the site and collected bulk samples of all accessible suspect ACM that are present at the structure and were not previously sampled. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

The assessment of the structure included observations to estimate the approximate amount (length or area) of suspect ACM, if present. Photographs taken by Watts during the inspection are included within **Appendix A** – **Photos**. Where possible, Watts visually inspected identified suspect ACM to assess their condition. The conditions of the ACM are classified as good, fair, or poor. The requirement for each designation is as follows:

Good: Material with no visible damage or deterioration or showing very limited damage or deterioration.

Fair: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering less than one tenth of the surface if the damage is evenly distributed or up to 25% of the material if the damage is localized.



Poor: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering more than one tenth of the surface if the damage is evenly distributed or more than 25% of the material if the damage is localized. Material with large areas hanging from the substrate, delaminated, heavily gouged, crushed, etc.

Bulk samples of accessible suspect ACM that have not been previously analyzed were collected during the site inspection of the subject structure. In accordance with NYSDOT's Transportation Environmental Manual (TEM), three (3) samples were taken of each homogeneous material that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. Samples were delivered with the proper chain-of-custody forms to a New York State-accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except non-friable organically bound (NOB) materials were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.1. In addition, all samples analyzed via 198.1 were examined for the presence of vermiculite. NOBs, which include, but are not limited to, tars, bond breakers, bearing pads, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.6. Any NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy using NY ELAP Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by Transmission Electron Microscopy if the PLM analysis does not confirm the presence of asbestos.

An Asbestos Bulk Sample Summary Table can be found after Section 5.0 of this report, and it includes information on all suspect ACM sampled during this inspection. In addition, it enumerates all suspect homogeneous materials identified, corresponding bulk sample numbers, results of the various testing conducted, and whether or not the items are ACM. Drawing(s) identifying the approximate locations of asbestos bulk samples and detailed information regarding identified ACM (if present) are included within Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures**. The asbestos laboratory report(s) and associated chain-of custody form(s) are included within **Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)**. The related asbestos license and certification information is included within **Appendix D – License(s) and Certification(s)**.

### 4.0 / Inspection Limitations

This inspection was conducted in accordance with NYSDOT TEM, NYSDOL, and United States Environmental Protection Agency (USEPA) asbestos regulations. Collection of bulk samples of suspect ACM was limited to those materials accessible using hand tools. Homogeneous materials were identified and located based on visual observation from accessible locations at the structure.

No sub-surface investigation (beyond 6"-12" below ground surface at the limited locations where and if the soil immediately adjacent to the vertical surfaces of the abutments and wing walls was able to be removed with a hand shovel) was performed by Watts to investigate for suspect ACM or underground utilities in the immediate vicinity of the structure. The review of the historical bridge records did not identify any suspect ACM associated with or below the wearing surface (pavement, concrete, asphalt, etc.) and as a result, no coring was conducted to inspect beneath it.

No asbestos inspection can entirely eliminate the uncertainty regarding the potential for undiscovered ACM. The presence of hidden suspect ACM, inconsistencies with use of different construction products or inconsistencies within the mixture of a given product, or unforeseen circumstances associated with the assumptions made to the homogeneity of suspect ACM could potentially result in the existence of additional suspect ACM and/or the unknown presence of ACM. The inspection performed by Watts was conducted exercising all appropriate due diligence and was intended to reduce, but not eliminate, any uncertainty or confusion regarding the potential for ACM associated with the structure. The information obtained from the review of the historical record plans, field observations, and the laboratory analysis of the bulk samples collected was used to determine the presence or the absence of ACM, and if present, its quantity. The conclusions made during the completion of this inspection report used Dodge professional judgement and sound industry practices, however no guarantees or warranties are made, nor implied.



This asbestos inspection report is not intended to be utilized as a bid document for an asbestos abatement scope of work. This report is intended to satisfy the requirements of NYS Code Rule 56-5 and the NYSDOT TEM for asbestos inspections.

#### 5.0 / Conclusions and Recommendations

The following ACM was identified during this investigation:

- Dark Grey Sheet Packing (Pay Item 210.3312 Removal and Disposal of Bond Breaker/Filler ACM (BV14) Square Foot) Approximately 94 square feet (47 square feet each side) of dark grey sheet packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge at BIN 1022609.
- Abutment / Retaining Wall Caulking (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14)
   Foot) Approximately 2,179 linear feet (545 square feet for NYSDOL reporting purposes) of asbestos containing caulking is located within the vertical expansion joints of the abutments / retaining walls
   throughout the Kensington project corridor.
- Rail Post Grey Caulk (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot) Approximately 2,457 linear feet (~205 square feet for NYSDOL reporting purposes) of asbestos-containing grey caulking is located around the perimeter of the metal guild rail post base plates located on the retaining walls throughout the northern portion of the project corridor.

The following inaccessible/assumed ACM was identified during this investigation:

 Waterproofing – Item 61 – Bituminous Material (Pay Item 210.481201 Removal and Disposal of Miscellaneous ACM (BV14) Square Foot) – Approximately 234,486 square feet of this inaccessible/assumed ACM is associated with the back side of the abutments and retaining walls, counterforts, and top of footer piles throughout the project corridor.

If any ACM will be disturbed during the proposed bridge demolition or overall Kensington Expressway renovation project, the disturbance is considered an asbestos abatement project and must be conducted by a properly licensed asbestos abatement contractor in accordance with all applicable regulations. NYSDOL Blanket Variance 14 provides certain reliefs from the NYSDOL ICR 56 requirements provided the ACM remains in a non-friable condition. The development of asbestos-related NYSDOT Special Notes for use during construction will need to be completed as part of the design process. In addition, all persons involved with the bridge renovation or reconstruction should be made aware of the presence of ACM at this structure.

If any additional untested suspect ACM is identified during subsequent investigations or during construction, the materials must be sampled by certified personnel and analyzed for asbestos content by a certified laboratory.



## Asbestos Bulk Sample Summary Table

BIN 1022610 - Dodge Street Bridge over Kensington Expressway (NYS Route 33) City of Buffalo, Erie County, New York P.I.N. 5512.52.123

#### Identified asbestos-containing materials are in bold.

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022610-01	Brown Abutment Joint Filler	NE Wing Wall Joint	None Detected
1022610-02	Brown Abutment Joint Filler	NE Abutment/Wing Wall Joint	None Detected
1022610-03	Masonry Coating (Light Grey)	East Abutment, North Side	None Detected
1022610-04	Masonry Coating (Light Grey)	Center Pier, North End	None Detected
1022610-05	Grey and Orange Bearing Pad	East Abutment, North Middle Bearing	None Detected
1022610-06	Grey and Orange Bearing Pad	Center Pier, North Bearing	None Detected
1022610-07	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022610-08	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022610-09	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022610-10	Grey Railing / Abutment- Retaining Walk Caulk	NE Railing / Abutment- Retaining Wall	None Detected
1022610-11	Grey Railing / Abutment- Retaining Walk Caulk	NE Railing / Abutment- Retaining Wall	None Detected
1022610-12	Grey Railing / Abutment- Retaining Walk Caulk	SE Railing / Abutment Retaining Wall	None Detected
1022610-13	Grey Deck Expansion Joint Sealer	West Expansion Joint, South Side	None Detected
1022610-14	Grey Deck Expansion Joint Sealer	Middle Expansion Joint, North Side	None Detected



Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022610-15	Grey Deck Expansion Joint Sealer	West Expansion Joint, South Side	None Detected



# Appendix A

**Photos** 



Photo 1 – View to the northwest of the northern side Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610).



Photo 2 - View to the northwest of the southern side Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610). Repairs to the structure were being conducted at the time.



Photo 3 - View to the north from the middle of the Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610).



Photo 4 – View of the BIN plate located on the southwestern corner of the Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610).





Photo 5 – View of the BIN plate located on the adjacent fence at the northeast quadrant of the Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610).



Photo 6 – View of the underside of the Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610) taken during the night-time inspection of the bridge.



Photo 7 – View of the dark grey asbestos-containing caulking observed within the expansion joint at the Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610).



Photo 8 – Compressed asbestos sheet packing located on the abutment shelve at the bridge was previously confirmed as an ACM and visually observed during this inspection of the Dodge Street Bridge over Kensington Expressway (Route 33) (BIN 1022610).





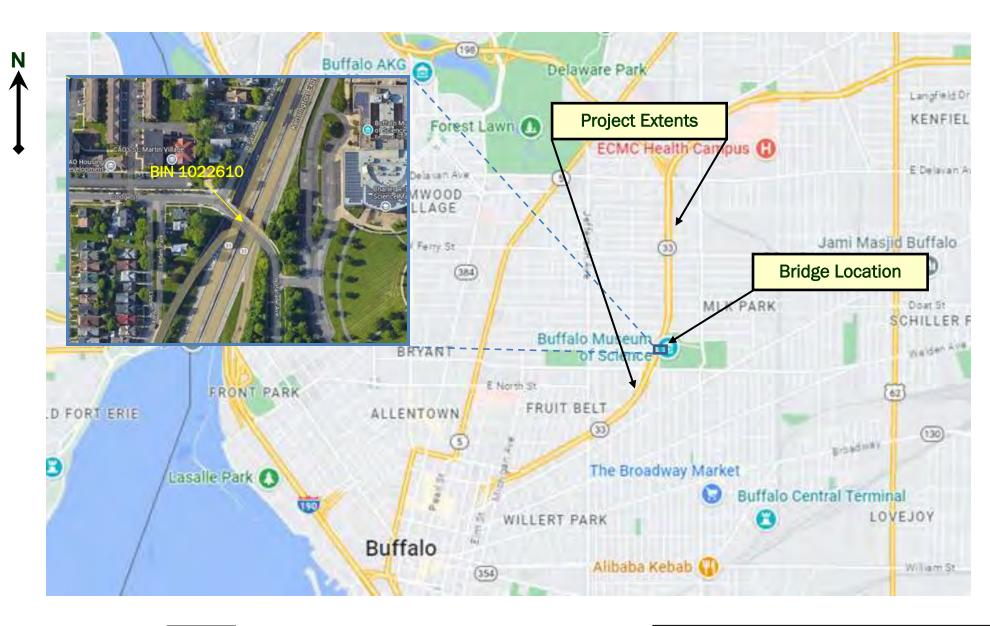
Photo 9 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

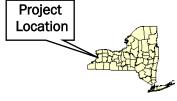


Photo 10 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

# Appendix B

**Figures** 







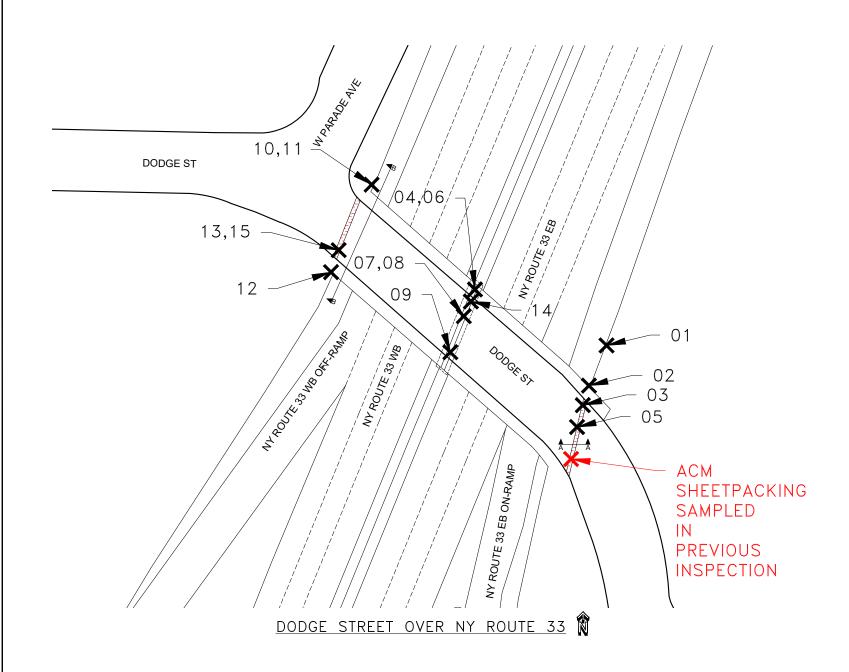
#### FIGURE 1 - PROJECT LOCATION MAP

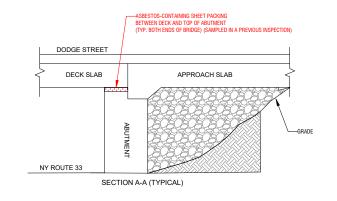
Dodge Street over Kensington Expressway (Rt 33) BIN 1022610 City of Buffalo, Erie County, New York

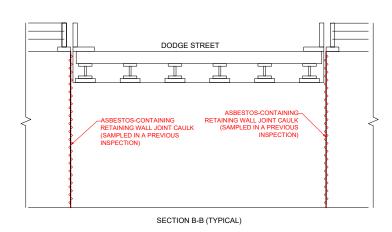
Not to Scale

June 2023

Source: Google Maps 2023.







ASBESTOS-CONTAINING SHEETPACKING
ASBESTOS-CONTAINING CAULK

FIGURE 2
ASBESTOS BULK SAMPLE LOCATIONS
BIN 1022610



DODGE STREET OVER NY ROUTE 33 CITY OF BUFFALO, NEW YORK

NOT TO SCALE JULY 2023

SAMPLES ARE PREFIXED BY 1022610—
SAMPLES WERE COLLECTED ON MAY 3 AND 10, 2023.

XINDICATES APPROXIMATE SAMPLE LOCATION
XINDICATES NUMBERS IN RED WERE IDENTIFIED TO BE ACM.

## Appendix C

Laboratory
Analytical Report(s)
and
Chain-of-Custody Form(s)



EMSL Order: 142302266 Customer ID: WATT50

Customer PO: Project ID:

Attention:Matthew HolquistPhone:(716) 206-5100Watts Architecture & EngineeringFax:(716) 206-5199

95 Perry Street Received Date: 05/23/2023 3:36 PM Suite 300 Analysis Date: 05/25/2023 - 05/31/2023

Buffalo, NY 14203 Collected Date: 05/23/2023

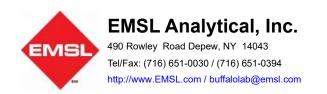
Project: 20220255 / PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY / BIN 1022610/Dodge St. Over Kensington

(Rt. 33)

#### **Test Report: Asbestos Analysis of Bulk Material**

		Analyzed	Non-Asbestos			
Те	est	Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1022610-01		Description	Brown Abutment Joint Filler		
	142302266-00	001	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
LM NYS 19	8.6 VCM					Not Analyzed
LM NYS 19	8.6 NOB	05/30/2023	Brown/ Black		100.00% Other	Inconclusive: None Detected
EM NYS 19	8.4 NOB	05/31/2023	Brown/ Black		100.00% Other	None Detected
ample ID	1022610-02		Description	Brown Abutment Joint Filler		
	142302266-00	002	Homogeneity	Homogeneous		
LM NYS 19	8.1 Friable					Not Analyzed
LM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB	05/30/2023	Black		100.00% Other	Inconclusive: None Detected
EM NYS 19	8.4 NOB	05/31/2023	Black		100.00% Other	None Detected
ample ID	1022610-03		Description	Light Gray Masonry Coating		
	142302266-00	003	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
LM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB	05/30/2023	White/ Rust		100.00% Other	Inconclusive: None Detected
EM NYS 19	8.4 NOB	05/31/2023	White/ Rust		100.00% Other	None Detected
Sample ID	1022610-04		Description	Light Gray Masonry Coating		
	142302266-00	004	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
LM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB	05/30/2023	White/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	White/ Rust		100.00% Other	None Detected
Sample ID	1022610-05		Description	Gray and Orange Bearing Pad		
	142302266-00	005	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable	05/25/2023	Brown/ Orange		100.00% Non-fibrous (other)	None Detected
PLM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB					Not Analyzed
TEM NYS 19	8.4 NOB					Not Analyzed

Initial report from: 05/30/2023 14:51:41



**EMSL Order:** 142302266 **Customer ID:** WATT50

Customer PO: Project ID:

#### Test Report: Asbestos Analysis of Bulk Material

Non-Asbestos

	Analyzed		Non-Asb	pestos	
Test	Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID 1022610-0	06	Description	Gray and Orange Bearing Pad	d	
142302266	-0006	Homogeneity	Homogeneous		
PLM NYS 198.1 Friable	05/25/2023	Brown/ Orange		100.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID 1022610-0	)7	Description	Grey Caulk at Pier Barrier Wal	Il Joints	
142302266	-0007	Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022610-0	)8	Description	Grey Caulk at Pier Barrier Wal	Il Joints	
142302266	-0008	Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022610-0	)9	Description	Grey Caulk at Pier Barrier Wal	Il Joints	
142302266	-0009	Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 1022610-	10	Description	Grey Railing/Abutment-Retain	ing Wall Caulk	
142302266	-0010	Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray		100.00% Other	None Detected
Sample ID 1022610-	11	Description	Grey Railing/Abutment-Retain	ing Wall Caulk	
142302266	-0011	Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM	<u> </u>				Not Analyzed
PLM NYS 198.6 NOB	05/30/2023	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	05/31/2023	Gray		100.00% Other	None Detected

Initial report from: 05/30/2023 14:51:41



EMSL Order: 142302266 Customer ID: WATT50

Customer PO: Project ID:

#### **Test Report: Asbestos Analysis of Bulk Material**

Non-Asbestos

Analyzed Non-Fibrous Asbestos Color **Fibrous** Test Date Grey Railing/Abutment-Retaining Wall Caulk Sample ID 1022610-12 Description 142302266-0012 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/30/2023 Brown/ Gray 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Brown/ Gray 100.00% Other None Detected Sample ID 1022610-13 Description Gray Deck Expansion Joint Sealer 142302266-0013 Homogeneous Homogeneity PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** Brown/ Gray 05/30/2023 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Brown/ Gray 100.00% Other **None Detected** 1022610-14 Gray Deck Expansion Joint Sealer Sample ID Description 142302266-0014 Homogeneous Homogeneity PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed 05/30/2023 **PLM NYS 198.6 NOB** Brown/ Gray 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Brown/ Gray 100.00% Other **None Detected** Sample ID 1022610-15 Gray Deck Expansion Joint Sealer Description 142302266-0015 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM Not Analyzed PLM NYS 198.6 NOB** 05/30/2023 Brown/ Gray 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Brown/ Gray 100.00% Other **None Detected** 

Initial report from: 05/30/2023 14:51:41



**EMSL Order:** 142302266 **Customer ID:** WATT50

Customer PO: Project ID:

#### Test Report: Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

**Report Comments:** 

Sample Receipt Date: 5/23/2023 Sample Receipt Time: 3:36 PM
Analysis Completed Date: 5/30/2023 Analysis Completed Time: 2:27 PM

Analyst(s):

Jessica Kroczynski PLM NYS 198.1 Friable (2)

sea Moon

Torr Manage PLIM NIVO 400 C NIOD (40)

Tom Hanes PLM NYS 198.6 NOB (13)

Tom Hanes TEM NYS 198.4 NOB (13

Samples reviewed and approved by:

Rhonda McGee, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 05/30/2023 14:51:41

Page: 1 of

# 142302266

## WATTS ARCHITECTS & ENGINEERS ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

	*	ASBE	STOS BULK SAMPLE CHAIN-OF-CUS	STODY				
lient:	New York State Depa	rtment of Tra	ansportation / LaBella			Date:	5/23/23	
Project: PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY		Watts Project No.:		20220255				
Building /	Location: BIN 1022	610/Dodge	St. over Kensington (Rt. 33)					
Contact:	Matt Ho	quist	at (716) 435-1724	Analysis Requested	d:	Turna	round Time Requeste	d:
mail Prei	iminary Results to:		mholquist@watts-ae.com	ELAP 198.1 (Friable PLM)	X	24 Hr.	5 Day	
Mail Repo	rt & Invoice to:	Watts A	rchitects & Engineers	ELAP 198.6 (NOB PLM)	X	48 Hr.	1 Week	X
		95 Perry	Street, Buffalo, NY 14203	ELAP 198.4 (NOB TEM)	X	72 Hr.	2 Weeks	
				Other (Specify)		96 Hr.		

Sample	Market Name and Alexander	HM	Cample Location	Laboratory Results		
Number			PLM	TEM		
1022610-01	Brown Abutment Joint Filler	1	NE Wing Wall Joint			
1022610-02	Brown Abutment Joint Filler	1	NE Abutment/Wing Wall Joint			
1022610-03	Light Gray Masonry Coating	2	East Abutment, North End			
1022610-04	Light Gray Masonry Coating	2	Center Pier, North End			
1022610-05	Gray and Orange Bearing Pad	3	East Abutment, North Middle Bearing			
1022610-06	Gray and Orange Bearing Pad	3	Center Pier, North Bearing			
1022610-07	Grey Caulk at Pier Barrier Wall Joints	4	Center Pier Barrier Wall Joints, North			
1022610-08	Grey Caulk at Pier Barrier Wall Joints	4	Center Pier Barrier Wall Joints, North			
1022610-09	Grey Caulk at Pier Barrier Wall Joints	4	Center Pier Barrier Wall Joints, South			
1022610-10	Grey Railing/Abutment-Retaining Wall Caulk	5	NE Railing/Abutment-Retaining Wall			
1022610-11	Grey Railing/Abutment-Retaining Wall Caulk	5	NE Railing/Abutment-Retaining Wall			
1022610-12	Grey Railing/Abutment-Retaining Wall Caulk	5	SE Railing/Abutment-Retaining Wall			

Sampled By: Matthew E. Holquist Matthew F. Holquist Matthew E. Hol

Comments: Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.

HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

MAY 2 3 2023 BY: Pm 3:3

 $\sim$ 

Page: 2 of

# 147302266

## WATTS ARCHITECTS & ENGINEERS BESTOS BULK SAMPLE CHAIN-OF-CUSTODY

		ASB	ESTOS BULK SAMPLE CHAIN-OF-CUS	STODY				
Client:	PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY         Watts Project No.:         202202           Jocation:         BIN 1022610/Dodge St. over Kensington (Rt. 33)         Analysis Requested:         Turnaround Time Interpretation           Matt Holquist         at (716) 435-1724         Analysis Requested:         Turnaround Time Interpretation           Ininary Results to:         mholquist@watts-ae.com         ELAP 198.1 (Friable PLM)         X         24 Hr.         5           & Invoice to:         Watts Architects & Engineers         ELAP 198.6 (NOB PLM)         X         48 Hr.         1	5/23/23						
		Watts Project No.:		20220255				
Building /	Location: BIN 10226	610/Dodge	St. over Kensington (Rt. 33)					
Contact:	Matt Hole	quist	at (716) 435-1724	Analysis Requested	d:	Tur	naround Time Requeste	d:
Email Pre	liminary Results to:		mholquist@watts-ae.com	ELAP 198.1 (Friable PLM)	X	24 Hr.	5 Day	
Mail Repo	ort & Invoice to:	Watts A	rchitects & Engineers	ELAP 198.6 (NOB PLM)	X	48 Hr.	1 Week	X
		95 Perr	y Street, Buffalo, NY 14203	ELAP 198.4 (NOB TEM)	X	72 Hr.	2 Weeks	
				Other (Specify)		96 Hr.		

Sample	Material Description	нм	Sample Location	Laboratory Results		
Number	Material Description	HM	Sample Location	PLM	TEM	
1022610-13	Gray Deck Expansion Joint Sealer	6	West Expansion Joint, South Side			
1022610-14	Gray Deck Expansion Joint Sealer	6	Middle Expansion Joint, North Side			
1022610-15	Gray Deck Expansion Joint Sealer	6	West Expansion Joint, South Side			

Sampled By:	Matthew E. Holquist Marka & Holgot	Date; 05/10/23 Time: 17:00	Received By:	 Date:
Relinquished By:	Matthew E. Holquist Watter	Dete: 05/23/23 Time: 5-30	Received By:	Date:

Comments: Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.

HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

RY. Por

WI

# Appendix D

License(s)
And
Certification(s)



New York State - Department of Labor

Division of Safety and Health License and Certificate Unit State Campus, Building 12 Albany, NY 12240

#### ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C. Suite 300 95 Perry Street

Buffalo, NY 14203

FILE NUMBER: 12-68007 LICENSE NUMBER: 68007 LICENSE CLASS: RESTRICTED DATE OF ISSUE: 09/01/2022

EXPIRATION DATE: 09/30/2023

Duly Authorized Representative - Kevin Janik

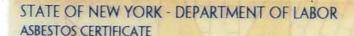
This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

SH 432 (8/12)

Amy Phillips, Director For the Commissioner of Labor









MATTHEW E HOLQUIST CLASS(EXPIRES) D INSP(02/24) | PD (02/24)

> CERT# 01-08239 DMV# 346423686

MUST BE CARRIED ON ASBESTOS PROJECTS



EYES BLU

HAIR BLN

HGT 5' 11"

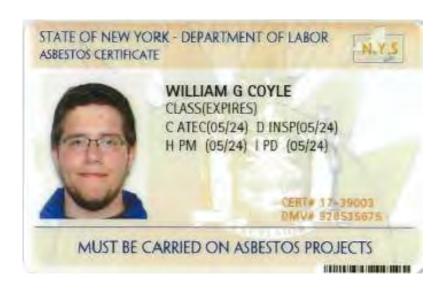
IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

### **Matthew E. Holquist**

D - Inspector

I - Project Designer







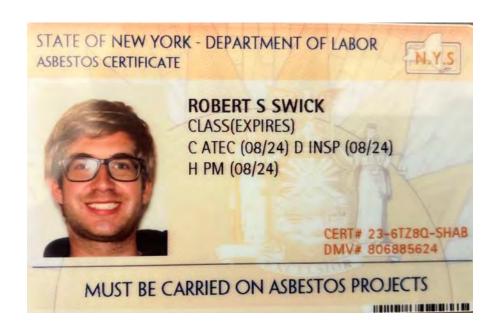
01213 006775315 25

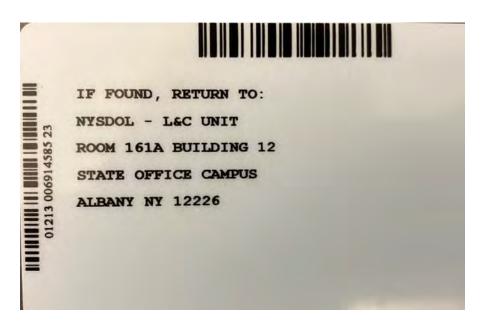
EYES BRO HAIR BRO HGT 6' 00" IF FOUND RETURN TO: NYSDOL - L&C UNIT ROOM 161A BUILDING 12 STATE OFFICE CAMPUS ALBANY NY 12240

### William Coyle

- C Air Sampling Technician
- D Inspector
- H Project Monitor
- I Project Designer







#### **Robert Swick**

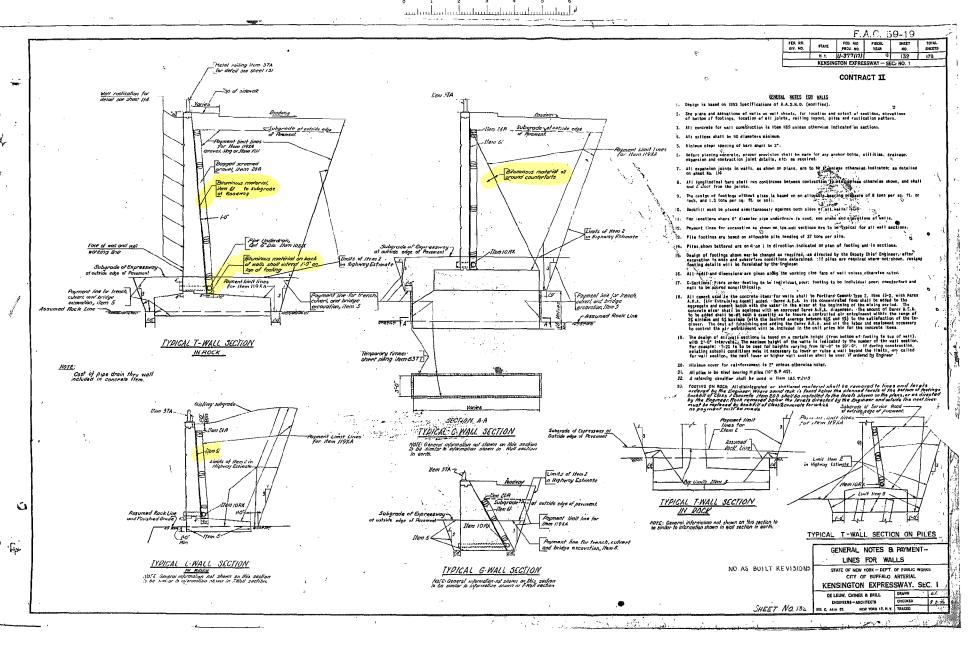
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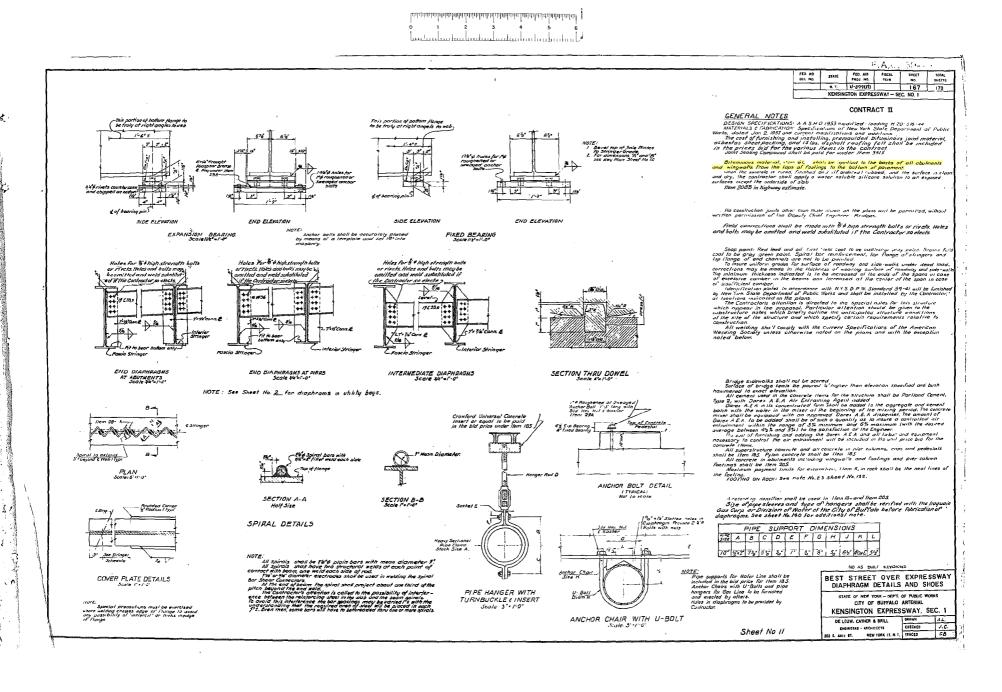
D - Inspector

H - Project Monitor

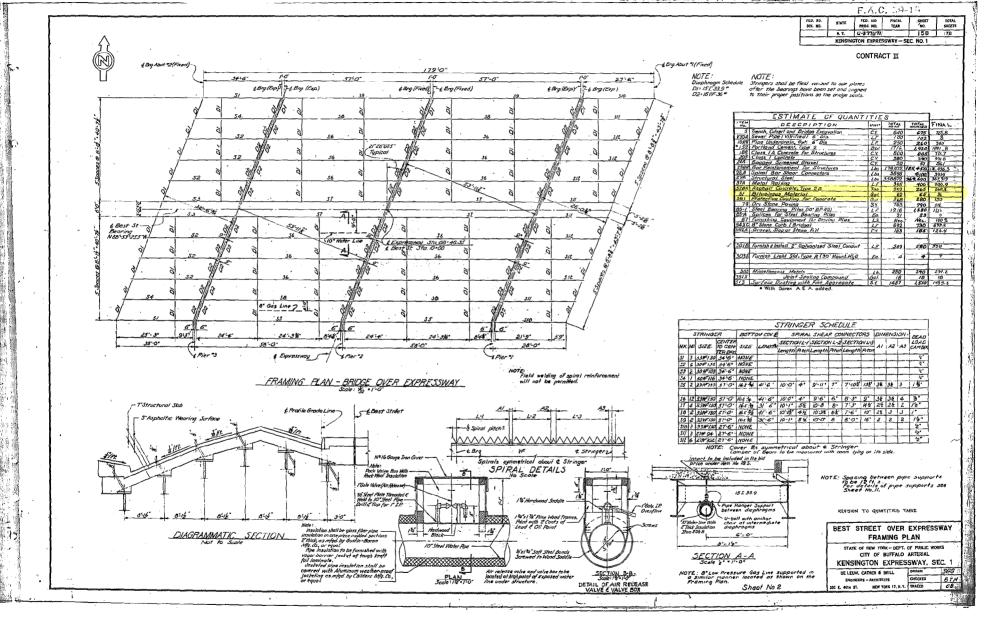
# Appendix E

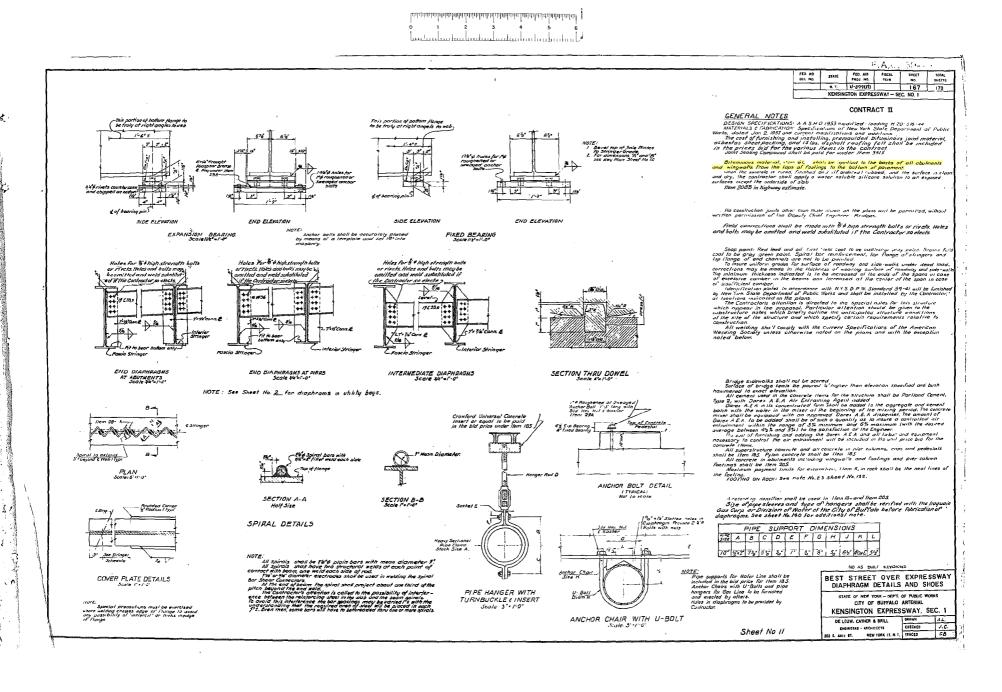
Previous ACM Report(s)
and
Asbestos-Related
Record Plan and
Project Information

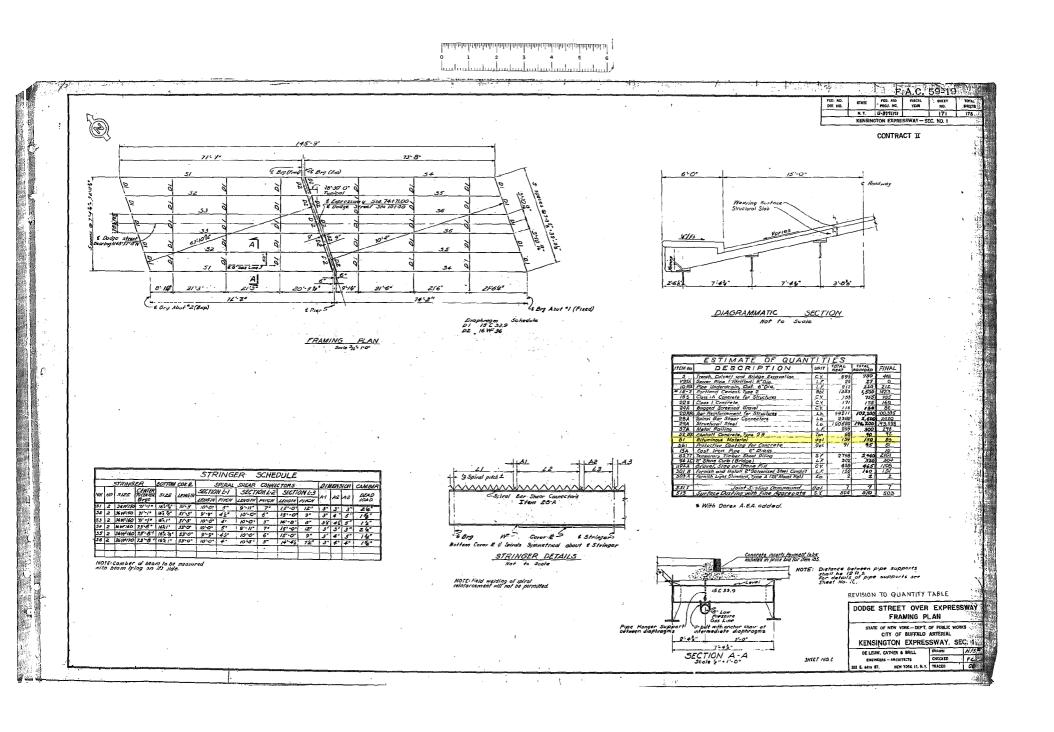


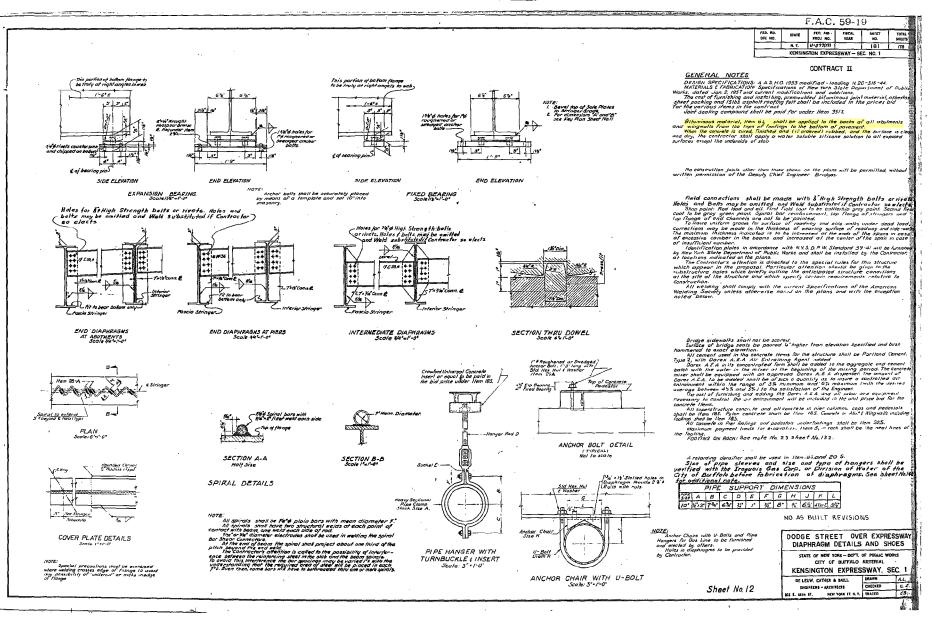


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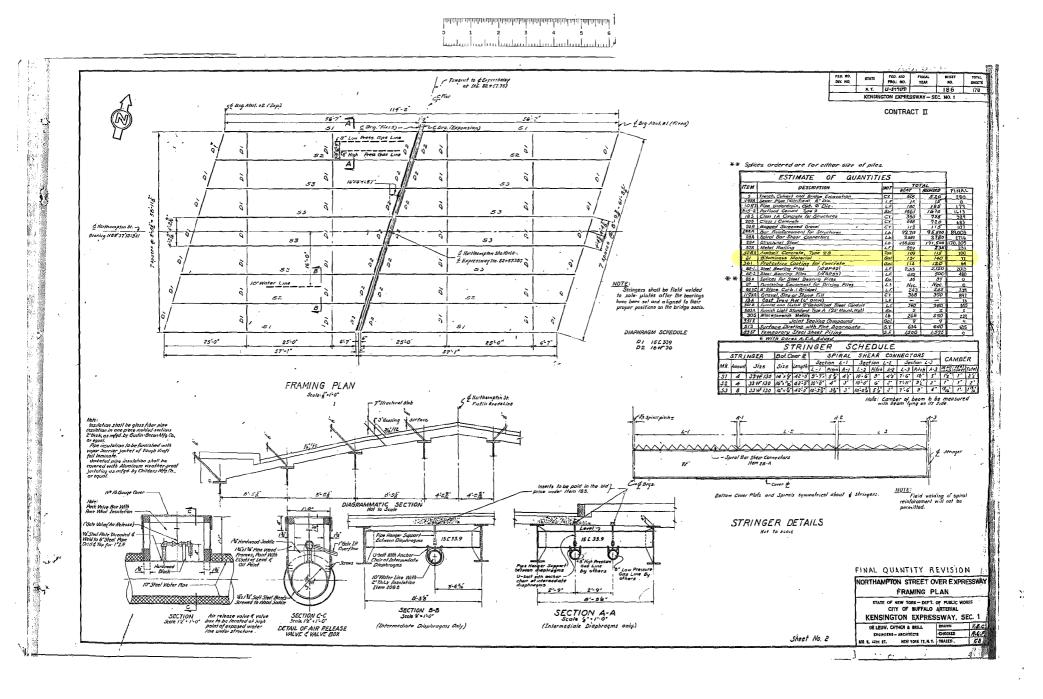


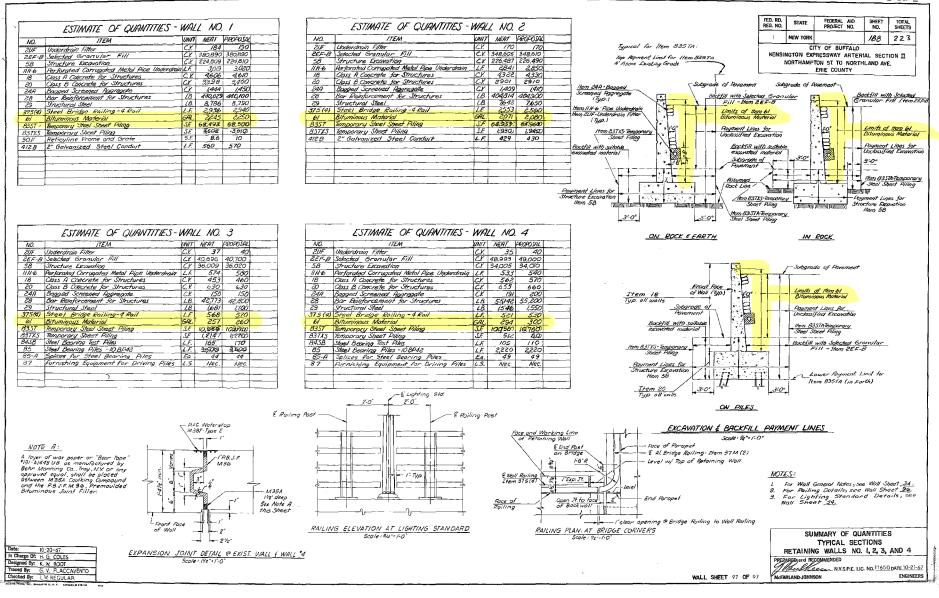


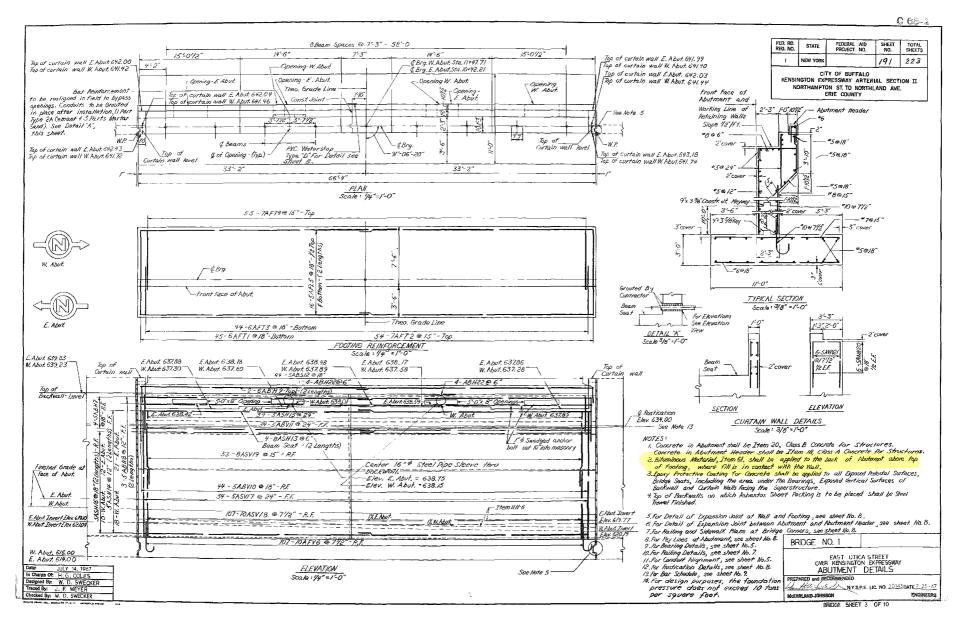


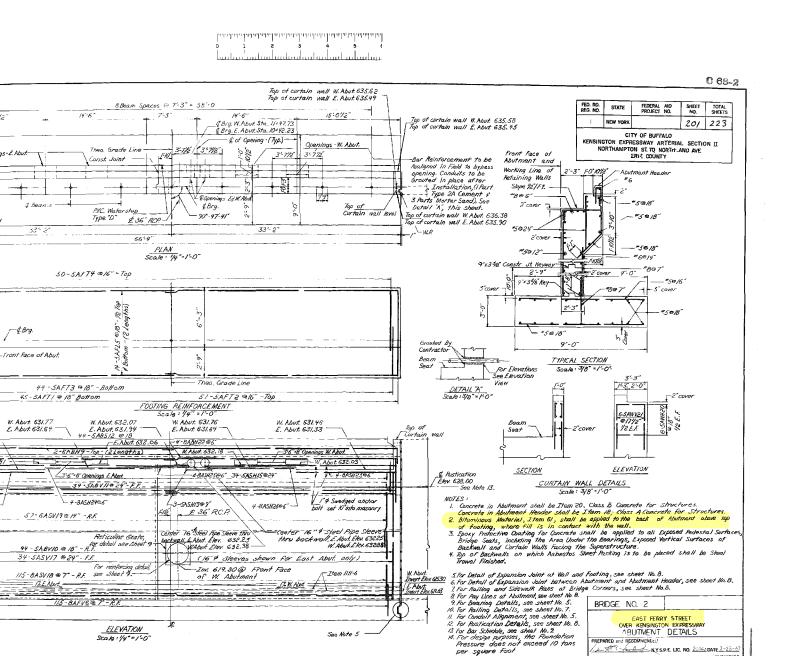


خليك









15:01/2

Top of

Curtain wall level

W.Abut 631.47

Y-BACH2ROK"

Curtain wall E. Abut. 631.35

SASHIP @ 12" - (2 Lengths)

3-5AB#8

Openings-E. Abut.

Top of curtain wall W. Abut. 635.59

Top of curtain wall E. Abut. 635.47

Top of curtain wall W. Abut. 635.63. Top of curtain wall E. Abut. 635.57

Top of curtain wall W. Abut. 636.29. Top of curtain wall E. Abut. 636.12

E. Abut

W. Abut. 633.47

Top of Backwall-Level

Finished Grade at

E. Abut

E. Abut. Invert Elev. 6/5.29

W.Abut. Invert Elev. 614.64

E. Ab<u>ut. 611.00</u> W. Abut. 611.00

In Charge Of: H. G. COLES

Designed By: W. D. SWECKER Traced By: J. F. MEYER

Checked By: W. D. SWECKER

JULY 14 196

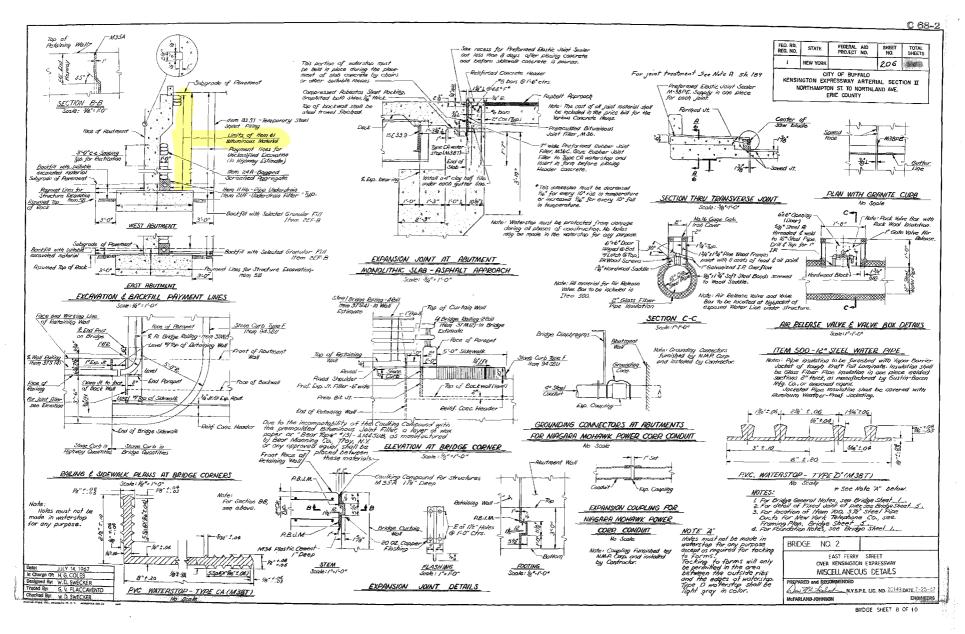
W. Abut

E. Abut. 633,28

BRIDGE SHEET 3 OF 10

ENGINEERS

MEFARI AND JOHNSON



# Asbestos Sampling Survey

Location:

Dodge Street Bridge over Route 33 City of Buffalo, New York

Prepared for:

New York State Department of Transportation

PIN 5512.36.122

LaBella Project No. 201001

October 2002

# Asbestos Sampling Survey

## Dodge Street Bridge over Route 33 City of Buffalo, New York

Prepared for:

New York State Department of Transportation

PIN 5512.36.122

LaBella Project No. 201001

October 2002

LaBella Associates, P.C. 300 State Street Rochester, New York 14614-1098

## **Table of Contents**

		Page
I.	Project Summary	1
II.	Site Description	1
III.	Inspection Procedures	1
IV.	Results	2
Certif	fication	2

Figures and Table

#### I. Project Summary

In accordance with conditions of Term Agreement D012606, LaBella Associates, P.C. conducted an asbestos sampling survey on the Dodge Street Bridge over Route 33. Based on laboratory analyses of bulk samples collected, the following materials were determined to contain asbestos:

Type of Material	<b>Estimated Amount</b>
Sheet Packing	8.7 Square Meters
Joint Sealer	16.4 Meters

#### II. Site Description

The Site is located in Erie County, New York. For the purpose of this report, the Site consists of BIN 1022610 –Dodge Street Bridge over Route 33 (See FIGURE 1).

#### **III.** Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 5 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints, which might affect the removal of the ACM, were identified and reported.
- C. Bulk samples of suspected ACM were collected during the site inspection of the subject structure. One sample was taken from each homogeneous area that may contain ACM.
- D. Samples were submitted for analysis. Preliminary PLM analyses of NOB materials were performed by LaBella Laboratories, a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. TEM analyses of NOB materials, if necessary, were performed by AMA Analytical, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.
- F. A drawing of the structure at the Site was created, in order to show sample locations and the approximate locations and amounts of confirmed ACM observed in accessible locations.

Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by LaBella Associates to determine the presence of underground utilities on or in the immediate vicinity of the Site. Actual sample locations are shown in FIGURE 2. Results of bulk sample analyses are tabulated in the Bulk Sample Results Table.

#### IV. Results

Based on the analytical results, the following materials were determined to be asbestos-containing:

#### BIN 1022610-Dodge Street Bridge over Route 33

#### **Sheet Packing**

Asbestos-containing sheet packing is located between the tops of the abutments and the deck slab at both ends of the bridge. Most of this material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations. It is estimated that the total amount of this asbestos-containing sheet packing material on the bridge is approximately 8.7 square meters. This estimate is based on field measurements taken at the time of the site visit.

The approximate locations of this asbestos-containing sheet packing are shown in FIGURE 2.

#### **Joint Sealer**

Asbestos-containing joint sealer is located in the vertical joints between the back walls and the retaining walls at both ends of the bridge. It is estimated that the total amount of this asbestos-containing joint sealer is approximately 16.4 meters. This estimate is based on field measurements taken at the time of the site visit.

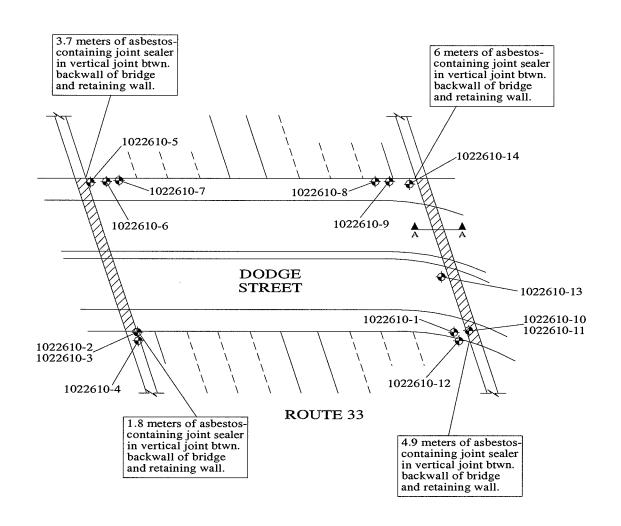
The approximate locations of this asbestos-containing joint sealer are noted in FIGURE 2.

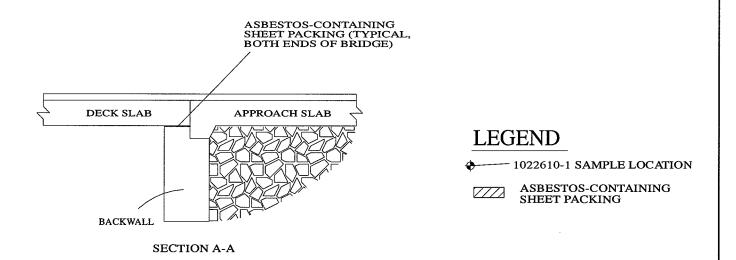
#### Certification

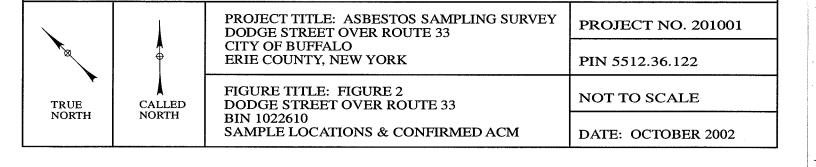
LaBella Associates, P.C. certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this investigation.

R2J24RR1

# Figures & Table







## **Bulk Sample Results Table**

Asbestos Sampling Survey
Dodge Street Bridge over Route 33
City of Buffalo, New York
LaBella Project # 201001
PIN 5512.36.122

### BIN 1022610 – Dodge Street Bridge over Route 33

Sample #	Sample Location	Type of Material	Results % Asbestos	Amount of Material
	East End of Bridge			
1022610-1	on South Railing	Silver/Red Paint	None Detected	N/A
1022610-2	West End of Bridge Between Deck and Cheek Wall	Black Joint Sealer	None Detected	N/A
1022610-3	West End of Bridge Between Deck and Cheek Wall	Brown Joint Filler	None Detected	N/A
1022610-4	Southwest Corner of Bridge Between Back Wall &Retaining Wall	Brown Joint Sealer	16% Chrysotile	16.4 Meters
	Northwest Corner	Gray Masonry		
1022610-5	of West Abutment	Coating	None Detected	N/A
1022610-6	West End of Bridge on North Railing	Silver/Red Paint	None Detected	N/A
1022610-7	West End of Bridge on Light Pole	Green/Orange Paint	None Detected	N/A
1022610-8	East End of Bridge on North Railing	Silver/Orange/ Green Paint	None Detected	N/A
1022610-9	East End of Bridge on Light Pole	Green/Orange Paint	None Detected	N/A
1022610-10	East End of Bridge Between Deck & Abutment	Sheet Packing	40% Chrysotile	8.7 Square Meters
1022610-11	East End of Bridge Beneath Bearing	Rearing Pad	None Detected	N/A
1022610-11	East End of Bridge on South Fascia Girder	Bearing Pad  Tan Paint	None Detected  None Detected	N/A
1022610-13	East End of Bridge on Diaphragm	Tan Paint	None Detected	N/A
1022610-14	East End of Bridge on North Fascia Girder	Tan Paint	None Detected	N/A

### BIN 1022610

# DODGE STREET OVER ROUTE 33 BRIDGE PAINT ASBESTOS TESTING BULK SAMPLE SUMMARY TABLE

# OTHER SUSPECT MATERIALS ALSO TESTED SEE LABELLA ASSOCIATES SAMPLING SURVEY REPORT DATED OCTOBER 2002

SAMPLE #	SAMPLE DATE	HOMOGENEOUS AREA	SAMPLE LOCATION	RESULTS- % ASBESTOS *	ANALYSIS METHOD
1022610-1	9/5/02	Silver/Red Paint	East End of Bridge on South Railing	None detected	TEM **
1022610-6	9/5/02	Silver/Red Paint	West End of Bridge on North Railing	None detected	TEM **
1022610-7	9/5/02	Green/Orange Paint	West End of Bridge on Light Pole	None detected	TEM **
1022610-8	9/5/02	Silver/Red Paint	East End of Bridge on North Railing	None detected	TEM **
1022610-9	9/5/02	Green/Orange Paint	East End of Bridge on Light Pole	None detected	TEM **
1022610-12	9/5/02	Tan Paint	East End of Bridge on South Fascia Girder	None detected	TEM **
1022610-13	9/5/02	Tan Paint	East End of Bridge on Diaphragm	None detected	TEM **
1022610-14	9/5/02	Tan Paint	East End of Bridge on North Fascia Girder	None detected	TEM **

<sup>\*</sup> PLM = Polarized Light Microscopy

<sup>\*\*</sup> TEM = Transmission Electron Microscopy

## **Asbestos-Containing Materials Inspection**

FOR

BIN 1022620 Northampton Street over Kensington Expressway (Rt. 33) City of Buffalo, Erie County, New York

PREPARED FOR

LaBella Associates 300 State St #201 Rochester, NY 14614

FOR SUBMISSION TO

New York State Department of Transportation Region 5

100 Seneca Street

Buffalo, NY 14203

PIN - 5512.52.123 D038277 Watts Project No. 20220255 August 2023, Revised September 2023

Submitted by:

Watts Architects &Engineers



## Watts Project Contact and Asbestos Fact Sheet



#### Name and Address of Building/Structure

BIN 1022620 - Northampton Street Bridge over

Kensington Expressway (NYS Route 33)

City of Buffalo, Erie County, New York

#### Name and Address of Building/Structure Owner

New York State Department of Transportation

50 Wolf Road

Albany, New York 12232

#### Name of the Firm & Persons Conducting the Inspection

Watts Architects & Engineers

Matthew E. Holquist (NYSDOL Cert #01-08239)

Robert S. Swick (NYSDOL Cert #20-05731)

William G. Coyle (NYSDOL Cert #17-39002)

#### Date(s) the Inspection Was Conducted

May 10 & 23, 2023



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#### 1.0 / Introduction

Watts Architects & Engineers, D.P.C. (Watts) was retained by New York State Department of Transportation (NYSDOT), in conjunction with LaBella Associates, D.P.C. (LaBella) being the lead Design Engineers for the Kensington Expressway Project (PIN 5512.52), to complete an Asbestos-Containing Materials (ACM) Inspection of the Northampton Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022620) as part of the overall larger project, located in the City of Buffalo, Erie County, New York. The overall PIN 5512.52 project includes the covering of the Kensington Expressway between Dodge Street and Sidney Street, with the purpose of re-creating the original Humboldt parkway setting that existed prior to the construction of the expressway, while maintaining the expressway as is, and at its current capacity. The project involves the demolition of five bridge structures and associated adjacent retaining walls throughout the project corridor along the Kensington Expressway. A separate report was prepared for each of the bridge structures throughout the project corridor, which includes:

- BIN 1022610 Dodge Street Bridge over NYS Route 33
- BIN 1022620 Northampton Street Bridge over NYS Route 33
- BIN 1022630 East Utica Street Bridge over NYS Route 33
- BIN 1022640 East Ferry Street Bridge over NYS Route 33
- BIN 1022609 Best Street Bridge over NYS Route 33

Since the overall retaining wall system throughout the project corridor isn't specifically associated with a single bridge, the ACM information associated with all of the retaining wall structures throughout the overall project corridor is summarized within each of the bridge reports noted above (the information is redundant). The information and estimated quantities are based upon the project limits at the time of reporting.

See Figure 1 – Project Location Map within **Appendix B – Figures**. The purpose of the bridge inspection was to identify and sample suspect ACM which may require abatement prior to or during demolition of the structure. The inspection was limited to the review of available records and examination of the areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. The following information summarizes the results of the investigation.

#### 2.0 / Inspection Results

The inspection involved the review of available historical record plans and previously completed asbestos inspection reports in an attempt to identify known or suspect ACM and an onsite inspection that fulfilled the NYSDOT methodology of collecting three (3) bulk samples for each identified homogeneous suspect ACM. Watts collected of a total of twenty-one (21) bulk samples to represent the seven (7) identified suspect ACM that are present at the structure (and were not previously sampled). ACM is defined as any material containing more than one percent (1%) of asbestos. Based on the information obtained during the records review, laboratory analysis of bulk samples collected as part of this investigation, previous sampling and analysis (if applicable), and visual observations, the following information regarding ACM has been identified at BIN 1022620 – Northampton Street Bridge over Kensington Expressway (NYS Route 33).

#### Confirmed Asbestos-Containing Materials (ACM)

Based on the record plan review, previous ACM inspection reports, subsequent field inspection, and laboratory analysis of collected samples, the following ACM was identified:



Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Black Pipe Coating <sup>1</sup>	Suspended Below Bridge Deck (South Side)	120 LF	Non-Friable	Good	210.3211
Abutment / Retaining Wall Caulking <sup>1</sup>	Within Retaining Wall Vertical Expansion Joints (One at Each Corner of the Bridge and Located Every 90 Linear Feet of Retaining Wall)	~2,179 LF (~545 SF for NYSDOL Reporting Purposes)	Non-Friable	Fair to Good	210.3411
Rail Post Base Grey Caulk	Base of Metal Guide Rail Posts on Top of the Retaining Walls in the Northern Portion of the Project Corridor	2,457 LF (~205 SF for NYSDOL Reporting Purposes)	Non-Friable	Good	210.3411

<sup>1 -</sup> ACM was previously identified during a former ACM survey/inspection. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding this ACM.

#### **Confirmed ACM Details**

During the record plan review, previous ACM inspection reports, and onsite inspection, the following ACM was identified:

#### **Black Pipe Coating**

The asbestos-containing black pipe coating associated with this bridge was previously tested and identified as an ACM during the 2013 Asbestos Survey Report. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

Asbestos-containing pipe coating is located in the waterline suspended along the south side of the bridge. It is estimated that the total amount of the pipe coating is approximately 120 linear feet. This estimate is based on field measurements taken at the time of the site visit. The approximate location of the asbestos-containing pipe coating is shown in Figure 2.

#### Abutment / Retaining Wall Caulking

The asbestos-containing caulking associated with this bridge was previously tested (and referred to as Black Joint Sealer) and identified as an ACM during the 2013 Asbestos Survey Report. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report. This ACM is homogeneous with the asbestos-containing abutment / retaining wall caulking that has been identified throughout the Kensington project corridor.

An asbestos-containing caulking is located within the vertical expansion joints of the retaining walls along both sides of the Kensington Expressway (NYS Route 33) project corridor. There are wall joints spaced out approximately every 30 linear feet along the retaining wall, with an expansion joint (filled with a non-ACM joint filler and covered with the asbestos-containing caulking) being located at every third joint. The two joints in between the expansion joints are each control joints with no joint fillers or ACM caulking. The control joints are tooled in as stress relief points that provide a potential cracking location within the joint itself as an effort to prevent wall surface cracking. The expansion joints (with non-ACM joint filler and asbestos-containing caulking) allow for expansion/contraction of the concrete wall. In addition to the 30' spaced two control joints and one expansion joint, there are additional expansion joints (with associated asbestos-containing caulking) in close proximity at each corner of the project corridor bridges.



The ACM was generally observed to be intact in most expansion joints, however, it was observed that the asbestos-containing caulking was no longer intact within some of the expansion joints or was sometimes covered with a newer, non-asbestos-containing caulking. It appears that the coloration of the caulking has been affected by staining and weathering, as it is not consistent in color throughout the corridor. In general, the asbestos-containing caulking was observed to be grey in color, but was sometimes darker or lighter grey, sometimes lighter or darker tan to brown. Thus, for estimating purposes, it is assumed that all of the caulking present within each expansion joint throughout the project corridor is an ACM (or is a newer non-ACM caulking but is applied directly onto the remnant asbestos-containing caulking).

It is estimated that the total amount of caulking associated with the retaining wall system throughout the project corridor is approximately 2,179 linear feet. The caulking is approximately 3" wide on average and there are a total of 108 vertical expansion joints that extend from the Kensington Expressway (NYS Route 33) roadway surface up the entire retaining wall and also extending along the horizontal surface (approximately 1.5') on top of the retaining wall. For NYSDOL reporting purposes, this is equivalent to approximately 545 square feet in total (note that NYSDOL considers this type of ACM a reportable quantity in square feet, while NYSDOT considers caulking a linear foot pay item). The approximate locations of the ACM caulking that are in close proximity to the bridge are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

#### Rail Post Base Grev Caulk

The asbestos-containing grey caulk associated with the metal guide rail post bases located on the retaining walls throughout the northern portion of the project area for the Kensington Expressway Project (PIN 5512.52) was previously tested and identified as an ACM during previous asbestos inspection reports. This ACM is not located in direct proximity to BIN 1022620, however there is a significant quantity of this ACM that will be disturbed as part of the overall project, thus the information has been included within all of the reports associated with the project.

This ACM has been confirmed present in association with the metal guide rail post bases throughout the northern portion of the project corridor where the originally installed metal guide rail system still remains. The southern portion of the project corridor has a different guide rail system that consists of recently installed decorative concrete guide rails that do not have associated ACM (however, the retaining walls below these areas still do have the asbestos-containing caulking associated with the expansion joints).

Grey asbestos-containing caulking compound is located around the perimeter of the guide rail post base plates associated with the retaining walls in the northern portion of the project corridor. It is important to note that the base plates associated with the guide rails and fencing posts located on the bridge curb/knee wall superstructure are of a different construction and do not have any associated ACM. Each rectangular guide rail post base plate with ACM is approximately 8" x 14" (a total of 3.67 linear feet per plate) and has an approximate 1" thick bead of caulk around the perimeter of each plate. There are approximately 670 guide rail post base plates with ACM associated with the retaining walls throughout the northern portion of the project corridor. Thus, it is estimated that the total amount of grey caulking compound associated with the guide rail post base plates is approximately 2,457 linear feet (205 square feet for NYSDOL reporting purposes). The ACM was generally observed to be intact in most locations. The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within Appendix B – Figures and can also be seen within Appendix A – Photos. In addition, details regarding the various retaining walls throughout the project corridor completed by design engineers from LaBella involved with the retaining wall design are included within Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information.

#### **Inaccessible Assumed ACM**

During the record plan review, previous ACM inspection reports, and onsite inspection, the following inaccessible assumed ACM was identified.



Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Waterproofing Item 61 – Bituminous Material	Back Side of Abutments and Retaining Walls, Counterforts, Top of Footer Piles	~234,486 SF	Non-Friable	Unknown	210.481201
Compressed Asbestos Sheet Packing	Between Bottom of Deck and Tops of Abutments at Both Ends of Bridge	~140 SF	Non-Friable	Good	210.3312

#### **Inaccessible Assumed ACM Details**

#### Waterproofing - Item 61 - Bituminous Material

This suspect ACM was identified during the record plan review in association with the retaining walls, counterforts, top of the footer piles, and abutments throughout the project corridor. According to the original Kensington Expressway construction documents, this suspect ACM was applied to the following locations: the back sides of the retaining walls; around all counterforts; extended 1' on top of the footing; and, the backs of all abutments and wingwalls from the top of footings to the bottom of pavement. As a result of this suspect ACM being buried beneath the concrete and asphalt roadway surface and the concrete sidewalks, this suspect ACM could not be accessed for sampling and subsequent submission for laboratory analysis. It is recommended that the material be tested for asbestos content prior to construction activities and any asbestos abatement because more often than not, Item 61 – Bituminous Material is found not to be an ACM, however, on occasion it is identified as an ACM, thus it must be assumed to be ACM.

It is estimated that the total amount of the suspect ACM Waterproofing – Item 61 – Bituminous Material is approximately 234,486 square feet throughout the project corridor. Quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design and the record plan information that details the approximate locations of this inaccessible/assumed ACM are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan Information**.

#### **Compressed Asbestos Sheet Packing**

Record plans dated March 1963 indicate "Compressed Asbestos Sheet Packing" is located between the deck slab and the top of backwall. This material was not visible during any of the site inspections. There have been no available records that indicate this ACM was removed, thus it is assumed to be present.

Compressed Asbestos Sheet Packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge. Typically, the edges of the sheet packing are exposed and visible at various locations, however this ACM was not visible during any of the field inspections. It is estimated that the total amount of compressed asbestos sheet packing that is present within the bridge structure is approximately 130 square feet (approximately 65 square feet per abutment). The assumed approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures**.

The 2013 Asbestos Survey Report identified the additional following two (2) Inaccessible/Assumed ACM as possibly being present at the Northampton Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022620):

- Asbestos-containing caulking surrounding steel conduits buried within the concrete sidewalk on both sides
  of the bridge.
- Asbestos-containing pipe wrap associated with the 10-inch and 8-inch protection sleeves located on the 8-inch and 6-inch high pressure gas lines.



Record plans dated March 1963 indicate that there are steel utility conduits buried within the concrete sidewalk on both sides of the bridge. While suspect asbestos-containing caulking potentially could be located around the expansion sleeves of the conduits buried in the sidewalks, no caulking or sealant was specifically called out within the construction documents, nor has it been observed during any of the field inspections. In addition, the same record plans indicate that there are 10-inch and 8-inch protection sleeves around the 8-inch and 6-inch high pressure gas utility lines suspended from the bridge deck. While suspect asbestos-containing pipe wrap could be located on the gas mains beneath the protection sleeves, none was called out within the construction documents, nor has it been observed during any of the field inspections. Without further information confirming that these suspect asbestos-containing materials are actually located at the bridge, they are no longer considered an Inaccessible/Assumed ACM. If additional information is obtained regarding their potential presence, or if these items are observed during construction, they must be assumed to be an ACM until testing can prove otherwise.

#### 3.0 / Inspection Procedures

Watts reviewed information available via NYSDOT's Bridge Data Information System (BDIS) and Record Plans that were made available by NYSDOT, Region 5.

A New York State Department of Labor (NYSDOL) certified asbestos inspector from Watts visited the site and collected bulk samples of all accessible suspect ACM that are present at the structure and were not previously sampled. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

The assessment of the structure included observations to estimate the approximate amount (length or area) of suspect ACM, if present. Photographs taken by Watts during the inspection are included within **Appendix A** – **Photos**. Where possible, Watts visually inspected identified suspect ACM to assess their condition. The conditions of the ACM are classified as good, fair, or poor. The requirement for each designation is as follows:

Good: Material with no visible damage or deterioration or showing very limited damage or deterioration.

Fair: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering less than one tenth of the surface if the damage is evenly distributed or up to 25% of the material if the damage is localized.

Poor: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering more than one tenth of the surface if the damage is evenly distributed or more than 25% of the material if the damage is localized. Material with large areas hanging from the substrate, delaminated, heavily gouged, crushed, etc.

Bulk samples of accessible suspect ACM that have not been previously analyzed were collected during the site inspection of the subject structure. In accordance with NYSDOT's Transportation Environmental Manual (TEM), three (3) samples were taken of each homogeneous material that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. Samples were delivered with the proper chain-of-custody forms to a New York State-accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except non-friable organically bound (NOB) materials were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.1. In addition, all samples analyzed via 198.1 were examined for the presence of vermiculite. NOBs, which include, but are not limited to, tars, bond breakers, bearing pads, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.6. Any NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy using NY ELAP Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by Transmission Electron Microscopy if the PLM analysis does not confirm the presence of asbestos.



An Asbestos Bulk Sample Summary Table can be found after Section 5.0 of this report, and it includes information on all suspect ACM sampled during this inspection. In addition, it enumerates all suspect homogeneous materials identified, corresponding bulk sample numbers, results of the various testing conducted, and whether or not the items are ACM. Drawing(s) identifying the approximate locations of asbestos bulk samples and detailed information regarding identified ACM (if present) are included within Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures**. The asbestos laboratory report(s) and associated chain-of custody form(s) are included within **Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)**. The related asbestos license and certification information is included within **Appendix D – License(s) and Certification(s)**.

#### 4.0 / Inspection Limitations

This inspection was conducted in accordance with NYSDOT TEM, NYSDOL, and United States Environmental Protection Agency (USEPA) asbestos regulations. Collection of bulk samples of suspect ACM was limited to those materials accessible using hand tools. Homogeneous materials were identified and located based on visual observation from accessible locations at the structure.

No sub-surface investigation (beyond 6"-12" below ground surface at the limited locations where and if the soil immediately adjacent to the vertical surfaces of the abutments and wing walls was able to be removed with a hand shovel) was performed by Watts to investigate for suspect ACM or underground utilities in the immediate vicinity of the structure. The review of the historical bridge records did not identify any suspect ACM associated with or below the wearing surface (pavement, concrete, asphalt, etc.) and as a result, no coring was conducted to inspect beneath it.

No asbestos inspection can entirely eliminate the uncertainty regarding the potential for undiscovered ACM. The presence of hidden suspect ACM, inconsistencies with use of different construction products or inconsistencies within the mixture of a given product, or unforeseen circumstances associated with the assumptions made to the homogeneity of suspect ACM could potentially result in the existence of additional suspect ACM and/or the unknown presence of ACM. The inspection performed by Watts was conducted exercising all appropriate due diligence and was intended to reduce, but not eliminate, any uncertainty or confusion regarding the potential for ACM associated with the structure. The information obtained from the review of the historical record plans, field observations, and the laboratory analysis of the bulk samples collected was used to determine the presence or the absence of ACM, and if present, its quantity. The conclusions made during the completion of this inspection report used best professional judgement and sound industry practices, however no guarantees or warranties are made, nor implied.

This asbestos inspection report is not intended to be utilized as a bid document for an asbestos abatement scope of work. This report is intended to satisfy the requirements of NYS Code Rule 56-5 and the NYSDOT TEM for asbestos inspections.

#### 5.0 / Conclusions and Recommendations

The following ACM was identified during this investigation:

- Black Pipe Coating (Pay Item 210.3211 Removal and Disposal of Suspended Pipe ACM (BV14) Foot) Approximately 120 linear feet of black pipe coating is associated with the suspended water utility located along the south side of the bridge at BIN 1022609.
- Abutment / Retaining Wall Caulking (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14)
   Foot) Approximately 2,179 linear feet (545 square feet for NYSDOL reporting purposes) of asbestos containing caulking is located within the vertical expansion joints of the abutments / retaining walls
   throughout the Kensington project corridor.
- Rail Post Grey Caulk (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot) Approximately 2,457 linear feet (~205 square feet for NYSDOL reporting purposes) of asbestos-containing



grey caulking is located around the perimeter of the metal guild rail post base plates located on the retaining walls throughout the northern portion of the project corridor.

The following inaccessible/assumed ACM was identified during this investigation:

- Waterproofing Item 61 Bituminous Material (Pay Item 210.481201 Removal and Disposal of Miscellaneous ACM (BV14) Square Foot) – Approximately 234,486 square feet of this inaccessible/assumed ACM is associated with the back side of the abutments and retaining walls, counterforts, and top of footer piles throughout the project corridor.
- Compressed Asbestos Sheet Packing (Pay Item 210.3312 Removal and Disposal of Bond Breaker/Filler
   ACM (BV14) Square Foot) Approximately 140 square feet (70 square feet each side) of Compressed
   Asbestos Sheet Packing is assumed to be located between the top of the abutments and the bottom of the
   deck slab at both ends of the bridge of BIN 1022620.

If any ACM will be disturbed during the proposed bridge demolition or overall Kensington Expressway renovation project, the disturbance is considered an asbestos abatement project and must be conducted by a properly licensed asbestos abatement contractor in accordance with all applicable regulations. NYSDOL Blanket Variance 14 provides certain reliefs from the NYSDOL ICR 56 requirements provided the ACM remains in a non-friable condition. The development of asbestos-related NYSDOT Special Notes for use during construction will need to be completed as part of the design process. In addition, all persons involved with the bridge renovation or reconstruction should be made aware of the presence of ACM at this structure.

If any additional untested suspect ACM is identified during subsequent investigations or during construction, the materials must be sampled by certified personnel and analyzed for asbestos content by a certified laboratory.



#### Asbestos Bulk Sample Summary Table

BIN 1022620 - Northampton Street Bridge over Kensington Expressway (NYS Route 33) City of Buffalo, Erie County, New York P.I.N. 5512.52.123

#### Identified asbestos-containing materials are in bold.

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022620-01	Vapor Barrier Jacket on Fiberglass Insulation	East Abutment, North Side	None Detected
1022620-02	Vapor Barrier Jacket on Fiberglass Insulation	East Abutment, North Side	None Detected
1022620-03	Vapor Barrier Jacket on Fiberglass Insulation	East Abutment, North Side	None Detected
1022620-04	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022620-05	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022620-06	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022620-07	Grey Caulk at Sidewalks	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected
1022620-08	Grey Caulk at Sidewalks	NW Quadrant, Between Sidewalk and Lighting Pole Foundation	None Detected
1022620-09	Grey Caulk at Sidewalks	NW Quadrant, Sidewalk Joints	None Detected
1022620-10	Silver/Brown Railing Paint	North Railing, West End	None Detected
1022620-11	Silver/Brown Railing Paint	South Railing, East End	None Detected
1022620-12	Silver/Brown Railing Paint	South Railing, West End	None Detected
1022620-13	Black Tar at Retaining Wall	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected
1022620-14	Black Tar at Retaining Wall	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected



Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022620-15	Black Tar at Retaining Wall	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected
1022620-16	Black Tar Paper at Retaining Wall	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected
1022620-17	Black Tar Paper at Retaining Wall	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected
1022620-18	Black Tar Paper at Retaining Wall	NW Quadrant, Between Sidewalk and Retaining Wall	None Detected
1022620-19	Black/Green Light Pole Paint	North Sidewalk, East End	None Detected
1022620-20	Black/Green Light Pole Paint	South Sidewalk, West End	None Detected
1022620-21	Black/Green Light Pole Paint	North Sidewalk, East End	None Detected



# Appendix A

**Photos** 



Photo 1 – View to the southern side of the Northampton Street Bridge over Kensington Expressway (Route 33) (BIN 1022620).



Photo 2 - View to the north from the middle of the deck of the Northampton Street Bridge over Kensington Expressway (Route 33) (BIN 1022620). Project corridor retaining walls are visible in the background of the photo.



Photo 3 - View to the east from the middle of the deck of the Northampton Street Bridge over Kensington Expressway (Route 33) (BIN 1022620).



Photo 4 – View to the south from the middle of the deck of the Northampton Street Bridge over Kensington Expressway (Route 33) (BIN 1022620). Project corridor retaining walls are visible in the background of the photo. ACM caulking is only associated with the older lower portion of the walls.



Photo 5 – BIN plate located on the adjacent fence at the southwest quadrant of BIN 1022620. ACM caulking is only associated with the older lower portion of the walls.



Photo 6 – View of the recently installed decorative upper portion retaining wall adjacent to BIN 1022620. Additional suspect ACM was identified and sampled, however all samples associated with the upper portion were negative for asbestos. The ACM caulking is only associated with the older lower portions of the retaining walls system in this area. (See Photos 4 & 5)



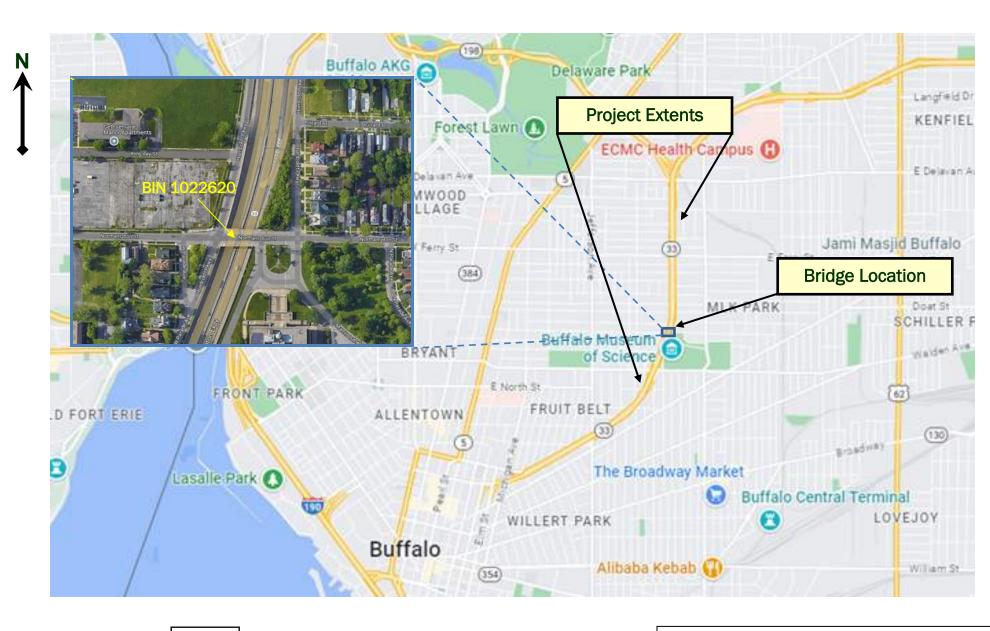
Photo 7 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

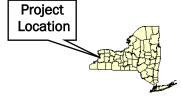


Photo 8 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

# Appendix B

**Figures** 







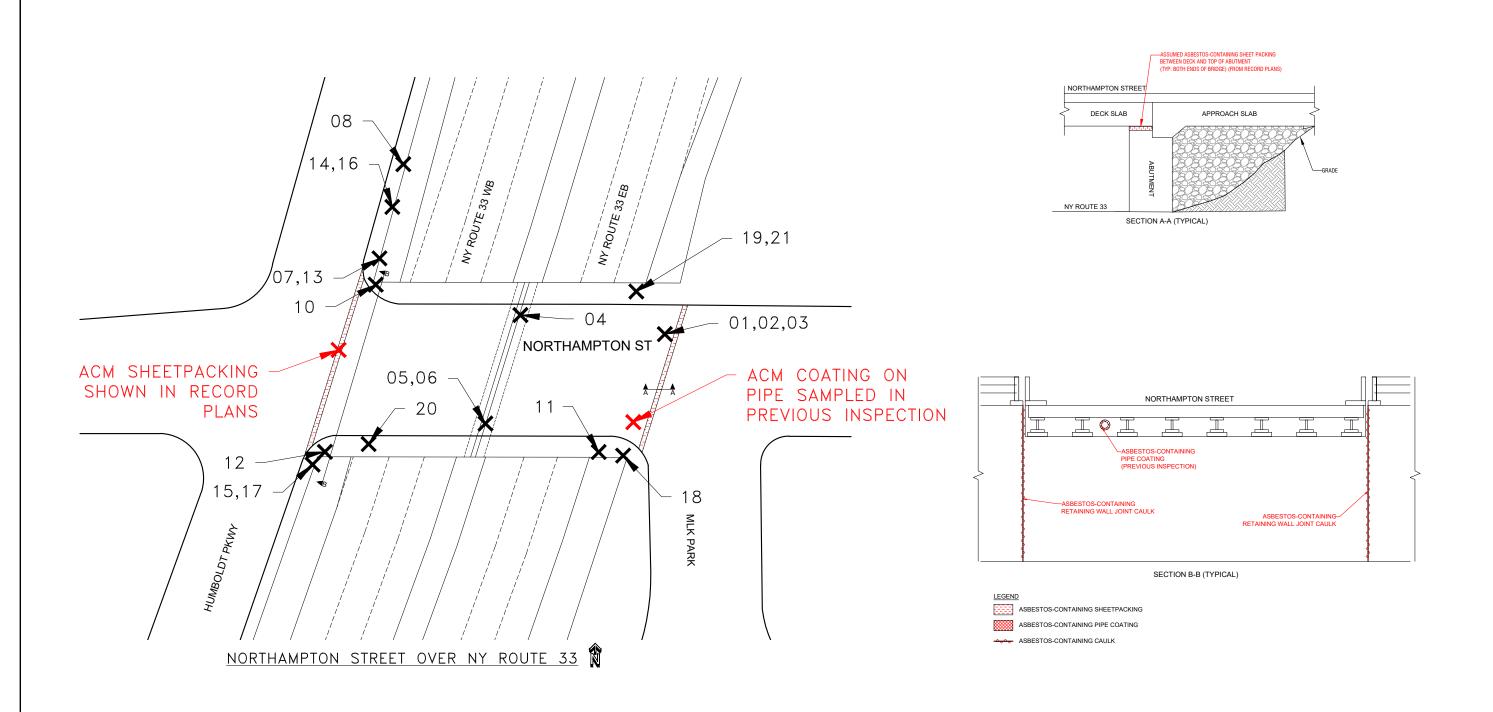
#### FIGURE 1 - PROJECT LOCATION MAP

Northampton St over Kensington Expressway (Rt 33) BIN 1022620 City of Buffalo, Erie County, New York

Not to Scale

June 2023

Source: Google Maps 2023.



SAMPLES ARE PREFIXED BY 1022620—
SAMPLES WERE COLLECTED ON MAY 3 AND 10, 2023.

XINDICATES APPROXIMATE SAMPLE LOCATION
X SAMPLE NUMBERS IN RED WERE IDENTIFIED TO BE ACM.



BIN 1022620

NORTHAMPTON STREET OVER

NY ROUTE 33

CITY OF BUFFALO, NEW YORK

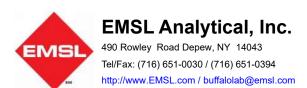
FIGURE 2
ASBESTOS BULK SAMPLE LOCATIONS

NOT TO SCALE

JULY 2023

## Appendix C

Laboratory
Analytical Report(s)
and
Chain-of-Custody Form(s)



Customer PO: Project ID:

Attention:Matthew HolquistPhone:(716) 206-5100Watts Architecture & EngineeringFax:(716) 206-5199

95 Perry Street Received Date: 05/23/2023 3:36 PM Suite 300 Analysis Date: 05/31/2023 - 06/01/2023

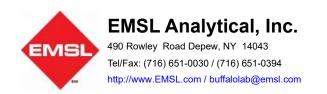
Buffalo, NY 14203 Collected Date: 05/10/2023

Project: 20220255 / PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY / BIN 1022620/North Hampton over

Kensington (Rt. 33)

#### **Test Report: Asbestos Analysis of Bulk Material**

Analyzed				N	Ion-Asbestos	
Te	est	Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1022620-01		Description	Vapor Barrier Jacket o	n Fiberglass Insulation	
	142302269-000	01	Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
LM NYS 19	98.6 NOB	06/01/2023	Various		100.00% Other	Inconclusive: None Detected
EM NYS 19	98.4 NOB	06/01/2023	Various		100.00% Other	None Detected
Sample ID	1022620-02		Description	Vapor Barrier Jacket o	n Fiberglass Insulation	
	142302269-000	02	Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
LM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	06/01/2023	Various		100.00% Other	Inconclusive: None Detected
EM NYS 19	98.4 NOB	06/01/2023	Various		100.00% Other	None Detected
ample ID	1022620-03		Description	Vapor Barrier Jacket o	n Fiberglass Insulation	
	142302269-000	03	Homogeneity	Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
LM NYS 19	98.6 NOB	06/01/2023	Various		100.00% Other	Inconclusive: None Detected
EM NYS 19	98.4 NOB	06/01/2023	Various		100.00% Other	None Detected
ample ID	1022620-04		Description	Grey Caulk at Pier Bar	rier Wall Joints	
	142302269-000	)4	Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
LM NYS 19	98.6 VCM					Not Analyzed
LM NYS 19	98.6 NOB	05/31/2023	Gray		100.00% Other	Inconclusive: None Detected
EM NYS 19	98.4 NOB	05/31/2023	Gray		100.00% Other	None Detected
ample ID	1022620-05		Description	Grey Caulk at Pier Bar	rier Wall Joints	
	142302269-000	05	Homogeneity	Homogeneous		
LM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
LM NYS 19	98.6 NOB	05/31/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
EM NYS 19	98.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected

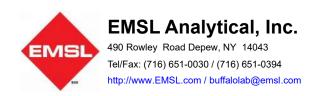


Customer PO: Project ID:

#### Test Report: Asbestos Analysis of Bulk Material

Non-Asbestos

		Analyzed		Non-As	bestos	
Te	est	Date	Color	Fibrous	Non-Fibrous	Asbestos
ample ID	1022620-06	6	Description	Grey Caulk at Pier Barrier W	all Joints	
	142302269-0	0006	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID	1022620-07	7	Description	Grey Caulk at Sidewalks		
	142302269-0	0007	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Gray		100.00% Other	None Detected
Sample ID	1022620-08	8	Description	Grey Caulk at Sidewalks		
	142302269-0	8000	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Gray		100.00% Other	None Detected
Sample ID	1022620-09	9	Description	Grey Caulk at Sidewalks		
	142302269-0	0009	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID	1022620-10	0	Description	Silver/Brown Railing Paint		
	142302269-0	0010	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Silver/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Silver/ Rust		100.00% Other	None Detected
Sample ID	1022620-11	1	Description	Silver/Brown Railing Paint		
	142302269-0	0011	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	8.6 NOB	05/31/2023	Silver/ Rust		100.00% Other	Inconclusive: None Detected
TEM NYS 19	8.4 NOB	05/31/2023	Silver/ Rust		100.00% Other	None Detected



Customer PO: Project ID:

#### **Test Report: Asbestos Analysis of Bulk Material**

Non-Asbestos Analyzed Non-Fibrous Color **Fibrous** Asbestos Test Date Sample ID 1022620-12 Description Silver/Brown Railing Paint 142302269-0012 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/31/2023 Various 100.00% Other Inconclusive: None Detected 05/31/2023 100.00% Other **TEM NYS 198.4 NOB** Various None Detected Sample ID 1022620-13 Description Black Tar at Retaining Wall 142302269-0013 Homogeneity PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed PLM NYS 198.6 NOB 05/31/2023 Insufficient Residue Final Residue <1% of original subsample - Non-ACM **TEM NYS 198.4 NOB** 05/31/2023 Not Analyzed Sample ID 1022620-14 Description Black Tar at Retaining Wall 142302269-0014 Homogeneous Homogeneity PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/31/2023 Black 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 **None Detected** Black 100.00% Other Sample ID 1022620-15 Description Black Tar at Retaining Wall 142302269-0015 Homogeneity PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/31/2023 Insufficient Residue Final Residue <1% of original subsample - Non-ACM **TEM NYS 198.4 NOB** 05/31/2023 Not Analyzed Sample ID 1022620-16 Black Tar Paper at Retaining Wall Description 142302269-0016 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM Not Analyzed PLM NYS 198.6 NOB** 05/31/2023 Black 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Black 100.00% Other **None Detected** 1022620-17 Black Tar Paper at Retaining Wall Sample ID Description 142302269-0017 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/31/2023 Black 100.00% Other Inconclusive: None Detected 05/31/2023 100.00% Other **TEM NYS 198.4 NOB** Black None Detected



Customer PO: Project ID:

#### **Test Report: Asbestos Analysis of Bulk Material**

Non-Asbestos Analyzed Non-Fibrous Asbestos Color **Fibrous** Test Date Black Tar Paper at Retaining Wall Sample ID 1022620-18 Description 142302269-0018 Homogeneity Homogeneous PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed Tan/ Black **PLM NYS 198.6 NOB** 05/31/2023 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Tan/ Black 100.00% Other **None Detected** Sample ID 1022620-19 Description Black/Green Light Pole Paint 142302269-0019 Homogeneous Homogeneity PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/31/2023 Various 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Various 100.00% Other **None Detected** 1022620-20 Black/Green Light Pole Paint Sample ID Description 142302269-0020 Homogeneous Homogeneity PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed 05/31/2023 **PLM NYS 198.6 NOB** Various 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Various 100.00% Other **None Detected** Sample ID 1022620-21 Black/Green Light Pole Paint Description 142302269-0021 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM Not Analyzed PLM NYS 198.6 NOB** 05/31/2023 Various 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Various 100.00% Other **None Detected** 



Customer PO: Project ID:

#### Test Report: Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

**Report Comments:** 

Sample Receipt Date: 5/23/2023 Sample Receipt Time: 3:36 PM
Analysis Completed Date: 6/1/2023 Analysis Completed Time: 9:21 AM

Analyst(s):

Tom Hanes PLM NYS 198.6 NOB (19)

Samples reviewed and approved by:

Thomas M. Hanes

Tom Hanes TEM NYS 198.4 NOB (19)

Rhonda McGee, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Page: 1 of

M7302269

### WATTS ARCHITECTS & ENGINEERS SBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

			ASBEST	OS BULK SAMPLE CHAIN-OF-CUS	STODY				
lient:	New York	State Depar	tment of Transp	ortation / LaBella			Date:	5/23/23	
roject:	PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY				Watts Project No.: 20			20220255	
uilding /	Location:	BIN 10226	320/North Hamp	oton over Kensington (Rt. 33)					
ontact:		Matt Hole	quist	at (716) 435-1724	Analysis Requested	i:	Tur	naround Time Requeste	d:
mail Pre	liminary Re	esults to:		mholquist@watts-ae.com	ELAP 198.1 (Friable PLM)	X	24 Hr.	5 Day	
fail Report & Invoice to: Watts A		Watts Archit	ects & Engineers	ELAP 198.6 (NOB PLM)	X	48 Hr.	1 Week	X	
			95 Perry Str	eet, Buffalo, NY 14203	ELAP 198.4 (NOB TEM)	X	72 Hr.	2 Weeks	
					Other (Specify)	-	96 Hr.		

Sample	Material Description	нм	Cample Leastion	Laboratory Results		
Number	Material Description		Sample Location	PLM	TEM	
1022620-01	Vapor Barrier Jacket on Fiberglass Insulation	1	East Abutment, North Side			
1022620-02	Vapor Barrier Jacket on Fiberglass Insulation	1	East Abutment, North Side			
1022620-03	Vapor Barrier Jacket on Fiberglass Insulation	1	East Abutment, North Side			
1022620-04	Grey Caulk at Pier Barrier Wall Joints	2	Center Pier Barrier Wall Joints, North			
1022620-05	Grey Caulk at Pier Barrier Wall Joints	2	Center Pier Barrier Wall Joints, South			
1022620-06	Grey Caulk at Pier Barrier Wall Joints	2	Center Pier Barrier Wall Joints, South			
1022620-07	Grey Caulk at Sidewalks	3	NW Quadrant, Between Sidewalk and Retaining Wall			
1022620-08	Grey Caulk at Sidewalks	3	NW Quadrant, Between Sidewalk and Lighting Pole Foundation			
1022620-09	Grey Caulk at Sidewalks	3	NW Quadrant, Sidewalk Joints			
1022620-10	Silver/Brown Railing Paint	4	North Railing, West End			
1022620-11	Silver/Brown Railing Paint	4	South Railing, East End			
1022620-12	Silver/Brown Railing Paint	4	South Railing, West End			

Sampled By: Matthew E. Holquist Matthew E. Hol

Comments: Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.

HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

142302269

### WATTS ARCHITECTS & ENGINEERS ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

		ASDE	3103 BULK SAIVIFLE CHAIN-OF-COS	JUDI				
lient:	New York State Depar	tment of Tra	nsportation / LaBella			Date:	5/23/23	
roject:	PIN 5512.5	2, Kensingto	n Rt 33, Buffalo, Erie Co., NY	Watts Project No.:			20220255	
uilding /	Location: BIN 10226	20/North Ha	ampton over Kensington (Rt. 33)					
Contact:	Matt Hold	quist	at (716) 435-1724	Analysis Requested	d:	Turnai	round Time Requeste	ed:
mail Pre	liminary Results to:		mholquist@watts-ae.com	ELAP 198.1 (Friable PLM)	X	24 Hr.	5 Day	
Mail Report & Invoice to: Watts Ar		Watts Ar	chitects & Engineers	ELAP 198.6 (NOB PLM)	X	48 Hr.	1 Week	Χ
		95 Perry Street, Buffalo, NY 14203		<b>ELAP 198.4 (NOB TEM)</b>	X	72 Hr.	2 Weeks	
						00.11-		

Sample	Material Description	нм	Sample Location	Laboratory Results		
Number	Material Description	ack Tar Paper at Retaining Wall 6 SW Quadrant, Between Sidewalk and Retaining Wall	PLM	TEM		
1022620-13	Black Tar at Retaining Wall	5	NW Quadrant, Between Sidewalk and Retaining Wall			
1022620-14	Black Tar at Retaining Wall	5	NW Quadrant, Between Sidewalk and Retaining Wall			
1022620-15	Black Tar at Retaining Wall	5	SW Quadrant, Between Sidewalk and Retaining Wall			
1022620-16	Black Tar Paper at Retaining Wall	6	NW Quadrant, Between Sidewalk and Retaining Wall			
1022620-17	Black Tar Paper at Retaining Wall	6	SW Quadrant, Between Sidewalk and Retaining Wall			
1022620-18	Black Tar Paper at Retaining Wall	6	SE Quadrant, Between Sidewalk and Retaining Wall			
1022620-19	Black/Green Light Pole Paint	7	North Sidewalk, East End			
1022620-20	Black/Green Light Pole Paint	7	South Sidewalk, West End			
1022620-21	Black/Green Light Pole Paint	7	North Sidewalk, East End			

	Matthew E. Holquist Manda & Holgar Date: 05/10/23 Time: 17:00	Received By:	Date:	
Relinquished By:	Matthew E. Holquist Market Hoate: 05/23/23 Time: / 5-30	Received By:	Date:	

Comments: Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.

HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions



BY: 822 3:36

## Appendix D

License(s)
And
Certification(s)



New York State - Department of Labor

Division of Safety and Health License and Certificate Unit State Campus, Building 12 Albany, NY 12240

#### ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C. Suite 300
95 Perry Street

Buffalo, NY 14203

FILE NUMBER: 12-68007 LICENSE NUMBER: 68007 LICENSE CLASS: RESTRICTED DATE OF ISSUE: 09/01/2022 EXPIRATION DATE: 09/30/2023

Duly Authorized Representative - Kevin Janik

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

SH 432 (8/12)

Amy Phillips, Director For the Commissioner of Labor



### STATE OF NEW YORK - DEPARTMENT OF LABOR ASBESTOS CERTIFICATE





MATTHEW E HOLQUIST CLASS(EXPIRES) D INSP(02/24) | PD (02/24)

> CERT# 01-08239 DMV# 346423686

MUST BE CARRIED ON ASBESTOS PROJECTS



01213 006771388 34

EYES BLU
HAIR BLN
HGT 5' 11"

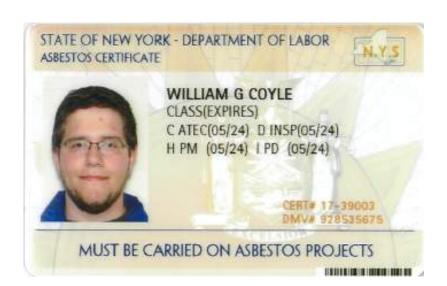
IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

#### **Matthew E. Holquist**

D - Inspector

I - Project Designer







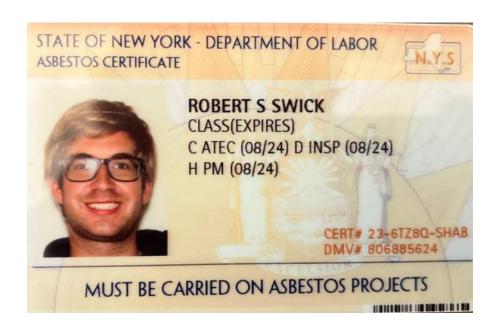
01213 006775315 25

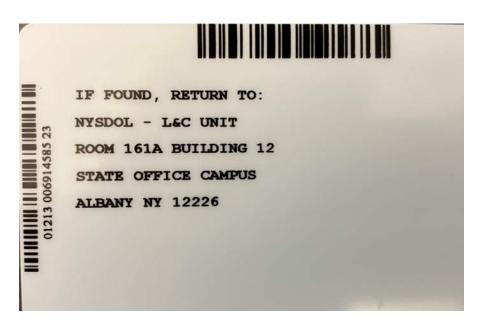
EYES BRO HAIR BRO HGT 6' 00" IF FOUND RETURN TO: NYSDOL - L&C UNIT ROOM 161A BUILDING 12 STATE OFFICE CAMPUS ALBANY NY 12240

#### William Coyle

- C Air Sampling Technician
- D Inspector
- H Project Monitor
- I Project Designer







#### **Robert Swick**

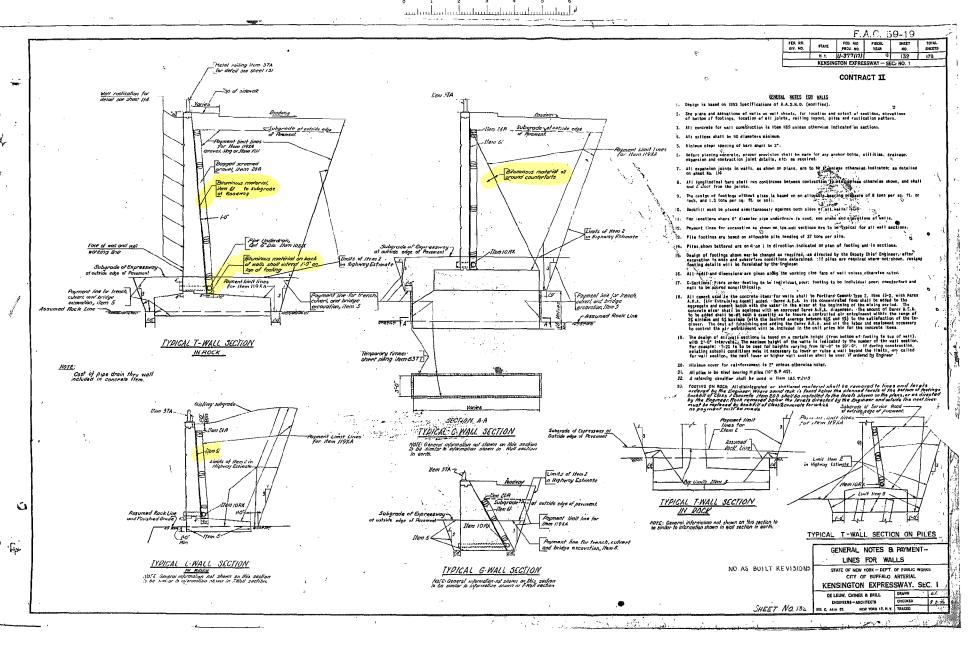
C - Air Sampling Technician

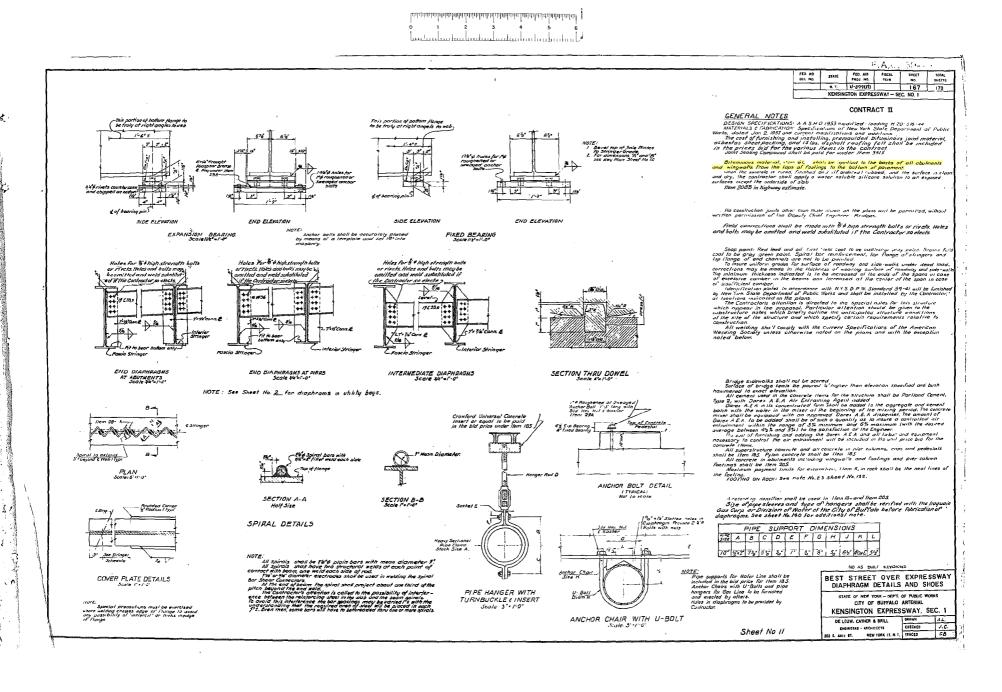
D - Inspector

H - Project Monitor

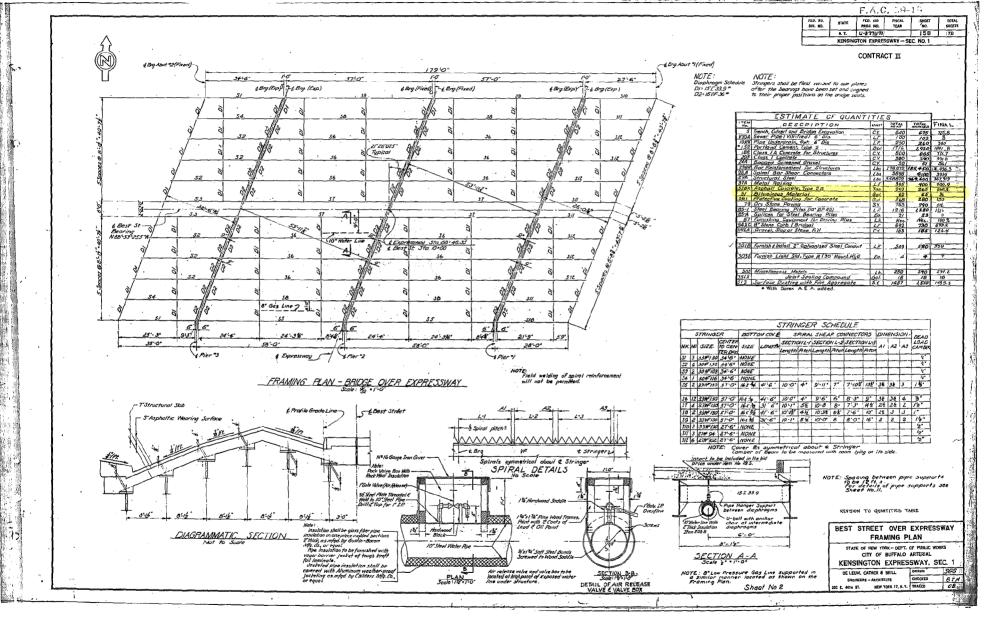
## Appendix E

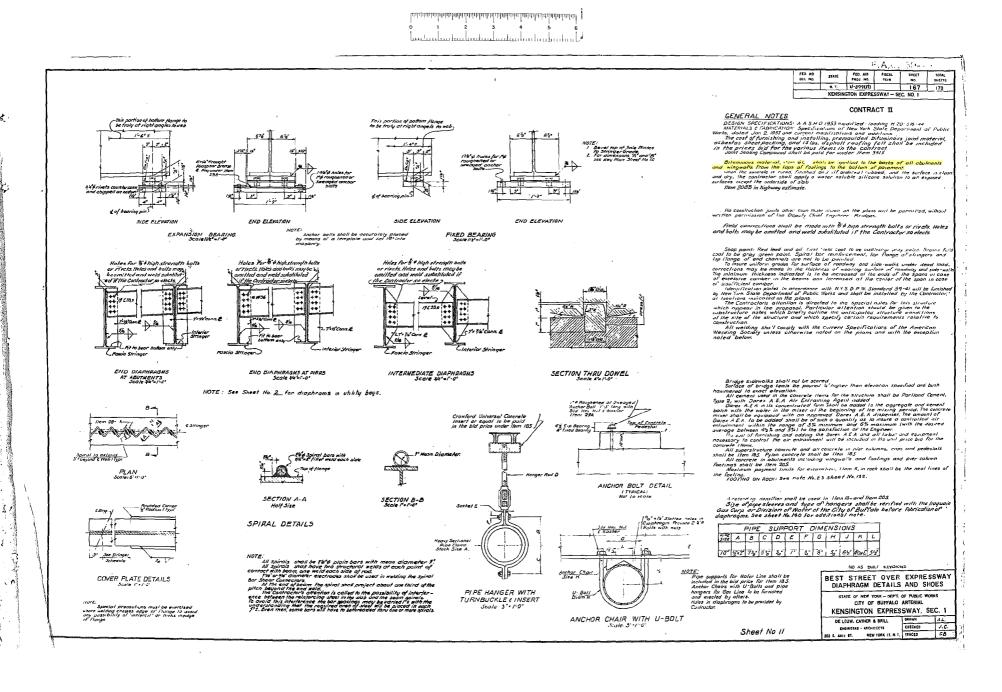
Previous ACM Report(s)
and
Asbestos-Related
Record Plan and
Project Information

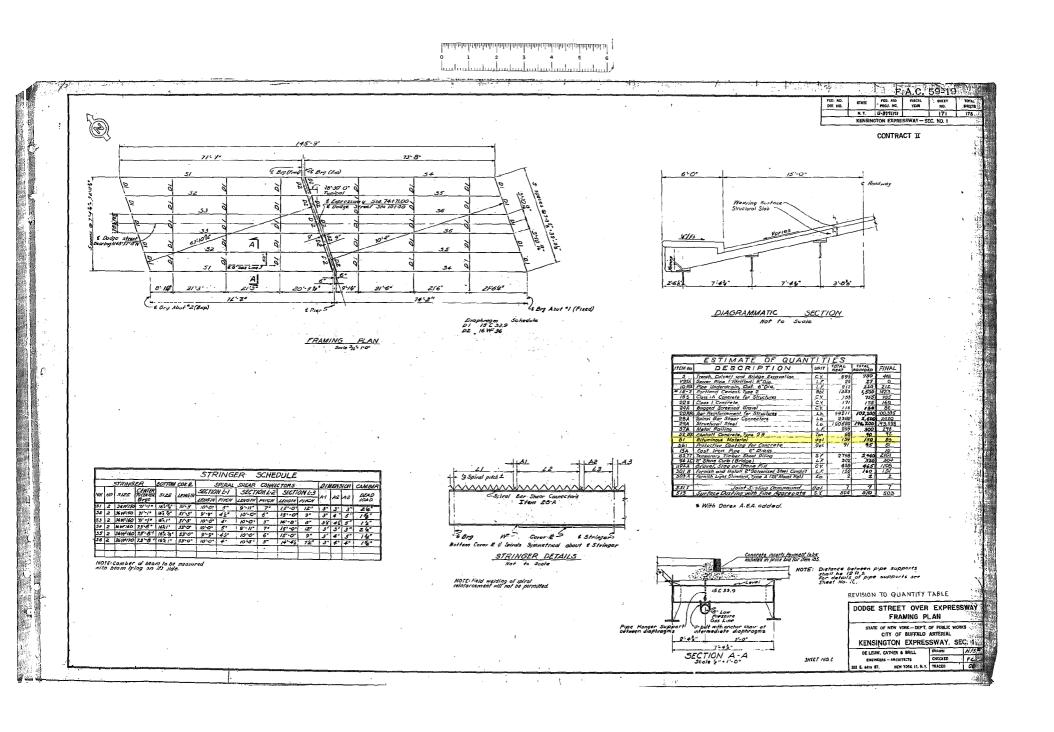


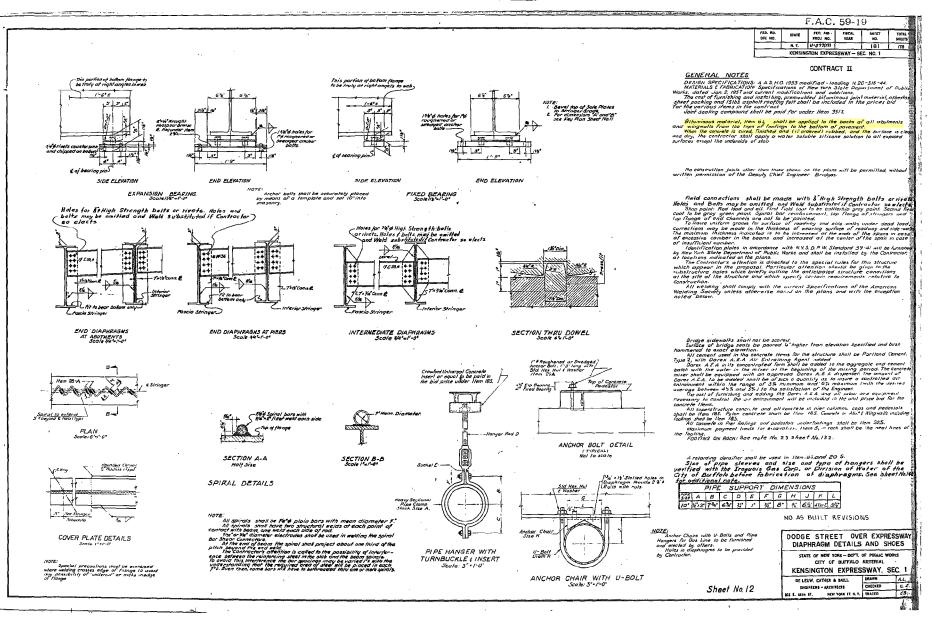


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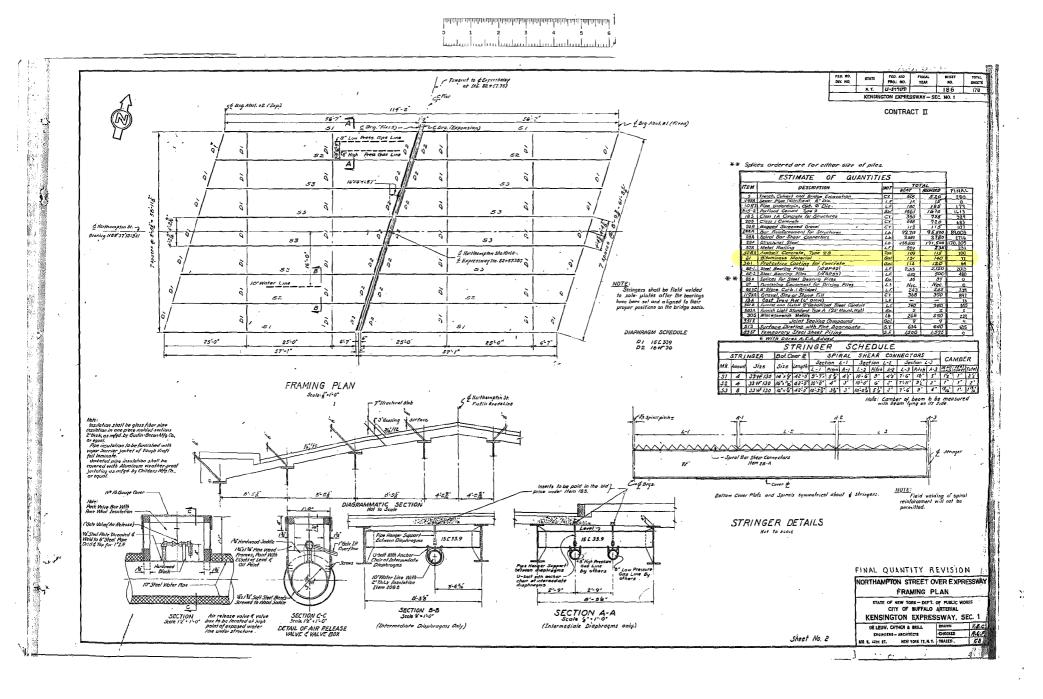


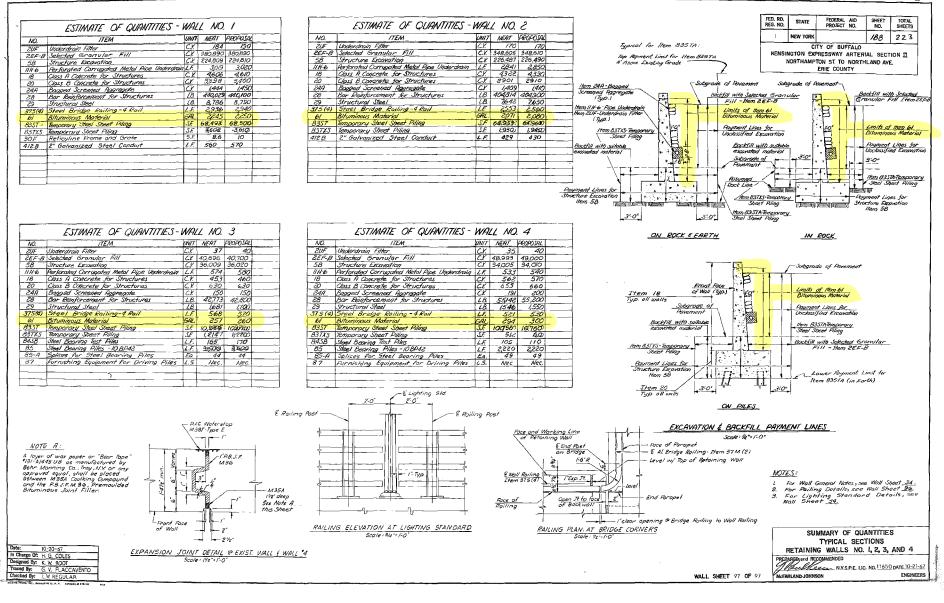


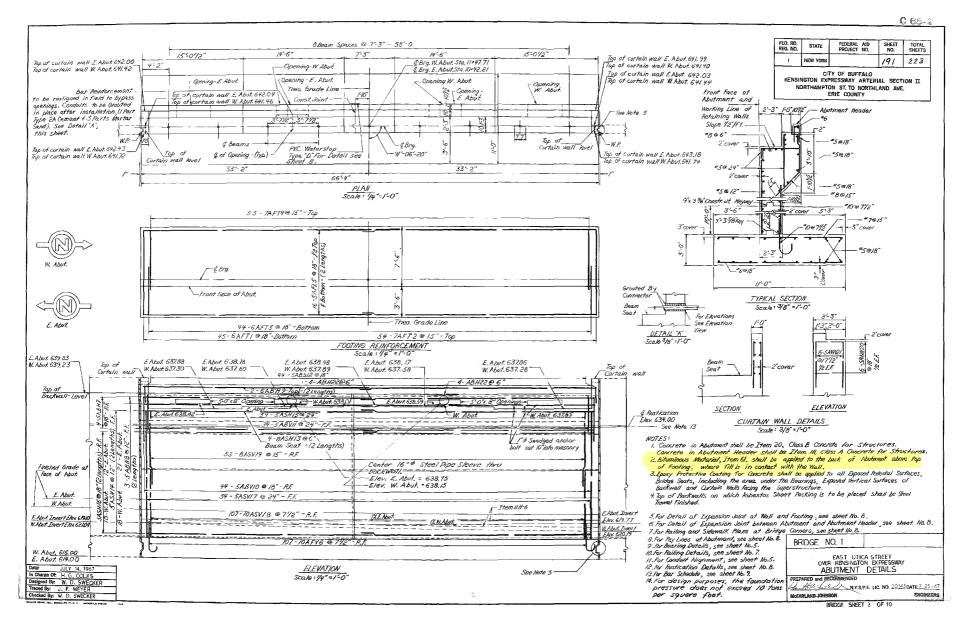


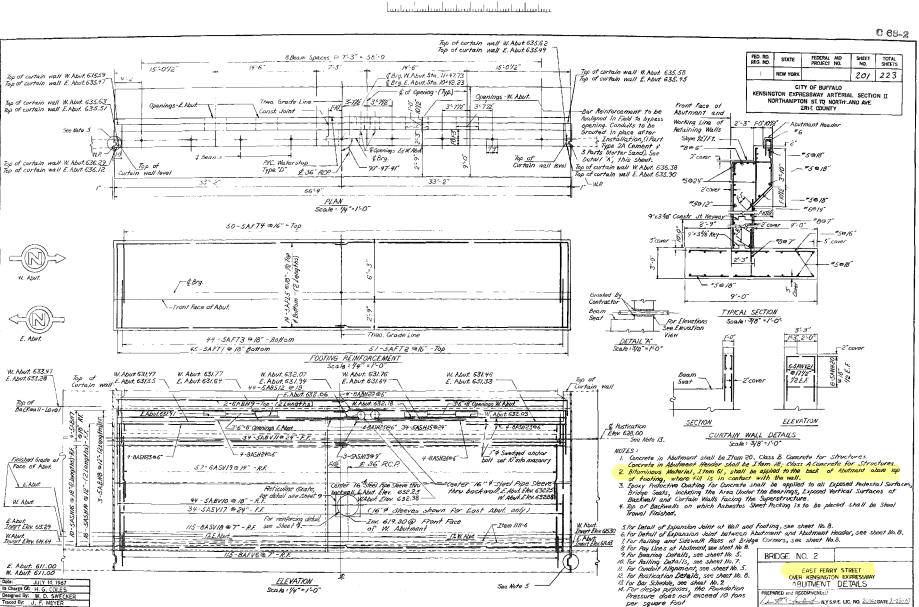


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Checked By: W. D. SWECKER

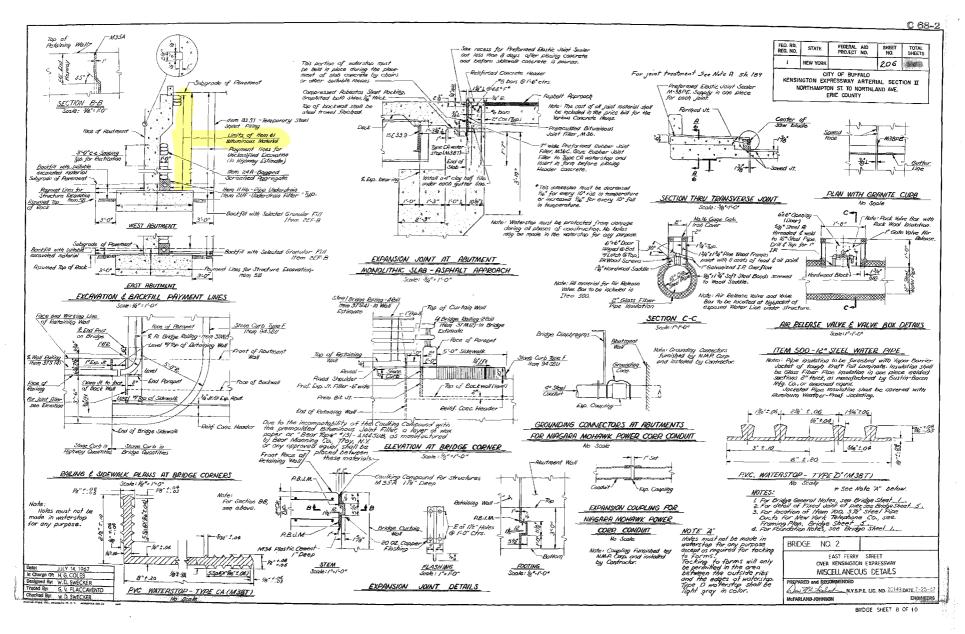
W. Abut

1 7 - 1 - 1 NYSPE LIC. NO. 20143 DATE 7-25-6 BRIDGE SHEET 3 OF 10

ENGINEERS

MEFARI AND JOHNSON

per square foot



# **ASBESTOS SURVEY REPORT**

Location: BIN 1022620
Northampton Street Bridge over NY Route 33
City of Buffalo, Erie County
PIN 5812.37.101

Prepared for:
New York State Department of Transportation



Prepared By:



175 Sully's Trail, Suite 202 Corporate Crossings Office Park Pittsford, New York 14534

August 2013

# **ASBESTOS SURVEY REPORT**

Location: BIN 1022620 Northampton Street Bridge over NY Route 33 PIN 5812.37.101

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Certific	cation		. 3
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Figure Figure		Site Location Map Asbestos Bulk Sample Location Plan	
Table 1	L	Bulk Sample Results	
Appei	ndices		
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Appen	dix B	Licenses and Certifications	
Appen	dix C	Laboratory Analysis Report and Chain of Custody	

# 1.0 Project Summary

In accordance with conditions of Term Agreement D030924, Lu Engineers conducted an asbestos sampling survey on the Northampton Street Bridge over NY Route 33 (BIN 1022620) in the City of Buffalo, Erie County, New York. Based on information obtained using the procedures described in Section 3.0 Inspection Procedures, the following summarizes the results of this investigation.

# BIN 1022620 – Northampton Street Bridge over NY Route 33

### **Confirmed Asbestos-Containing Materials (ACMs)**

Based on laboratory analyses of bulk samples collected, the following materials were determined to contain asbestos:

Type of Material	Typical Location	Estimated Amount	Friability	Condition
Black Pipe Coating	Suspended Below Bridge Deck (South Side)	120 LF	Non-friable	Good
Black Joint Sealer	In Vertical Retaining Wall Joints	80 LF	Non-friable	Fair

LF – Linear Foot

# Inaccessible/Assumed ACMs

Record plans dated March 1963 indicate "Compressed Asbestos Sheet Packing" located between the deck slab and the top of backwall. This material was not visible during the August 22, 2013 site inspection.

Record plans dated March 1963 indicate steel conduits buried within the concrete sidewalk on both sides of the bridge. Suspect asbestos caulking may be located around the expansion sleeves of the conduits buried in the sidewalks. None of these materials were visible during the August 22, 2013 site inspection.

Record plans dated March 1963 indicate 10-inch and 8-inch Protection Sleeves around 8-inch and 6-inch High Pressure Gas Lines suspended from the bridge deck. Suspect asbestos pipe wrap may be located on the gas mains, beneath the protection sleeves. This material was not visible during the August 22, 2013 site inspection.

No other inaccessible/assumed ACMs were identified.

# 2.0 Site Description

The site is located in the City of Buffalo, Erie County, New York. For the purpose of this report, the site consists of BIN 1022620 – Northampton Street Bridge over NY Route 33. The site is indicated on the attached Figure 1 – Site Location Map.

## 3.0 Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 5 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints, which might affect the removal of the ACM, were identified and reported.
- C. Bulk samples of suspected ACMs were collected during the site inspection of the subject structure. Samples were taken from each homogeneous area that may contain ACM, excluding the paint system. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground and/or by use of a ladder from below. The approximate location of bulk samples is indicated on Figure 2, Asbestos Bulk Sample Location Plan.
- D. Samples were submitted for analysis. Preliminary polarized light microscopy (PLM) analyses of non-friable, organically bound (NOB) materials were performed by Paradigm Environmental Services, Inc., a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. Transmission electron microscopy (TEM) analyses of NOB materials, if necessary, were performed by Paradigm Environmental Services, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.

Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by Lu Engineers to determine the presence of underground utilities on or in the immediate vicinity of the Site. The site inspection identified that the bridge was painted in September 2006 under Project D259781, therefore the paint system was not suspect for asbestos.

#### 4.0 Results

# BIN 1022620 – Northampton Street Bridge over NY Route 33

### **Confirmed Asbestos-Containing Materials (ACMs)**

#### **Pipe Coating**

Asbestos-containing pipe coating is located in the waterline suspended along the south side of the bridge.

It is estimated that the total amount of the pipe coating is approximately 120 linear feet. This estimate is based on field measurements taken at the time of the site visit. The approximate location of the asbestos-containing pipe coating is shown in Figure 2.

#### Joint Sealer

Asbestos-containing joint sealer is located in the vertical expansion joints of the retaining walls on both the east and west sides of the bridge.

It is estimated that the total amount of this joint sealer is approximately 80 linear feet. This estimate is based on field measurements taken at the time of the site visit. The approximate location of the asbestos-containing joint sealer is shown in Figure 2.

#### Inaccessible/Assumed ACMs

Record plans dated March 1963 indicate "Compressed Asbestos Sheet Packing" located between the deck slab and the top of backwall. This material was not visible during the August 22, 2013 site inspection.

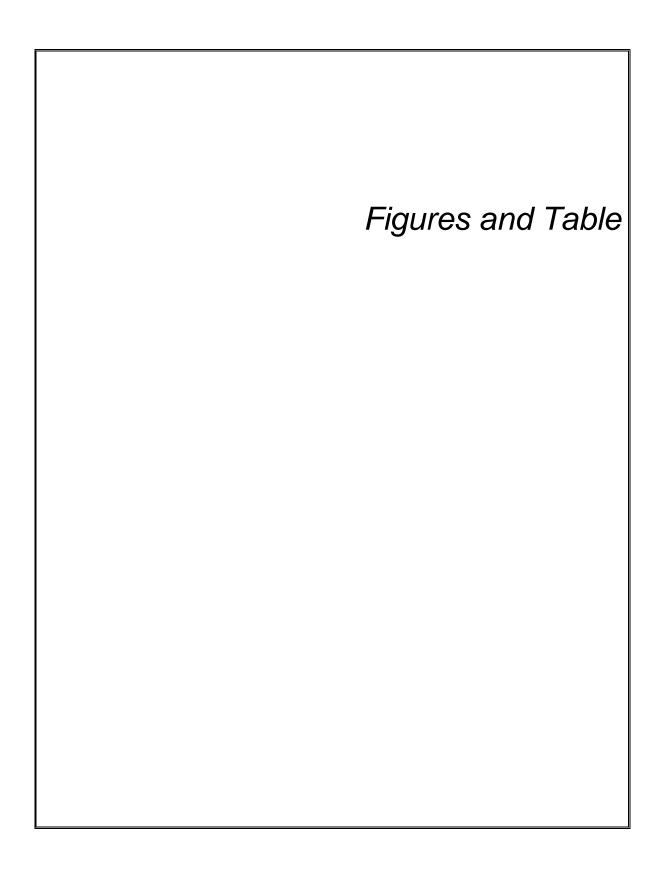
Record plans dated March 1963 indicate steel conduits buried within the concrete sidewalk on both sides of the bridge. Suspect asbestos caulking may be located around the expansion sleeves of the conduits buried in the sidewalks. None of these materials were visible during the August 22, 2013 site inspection.

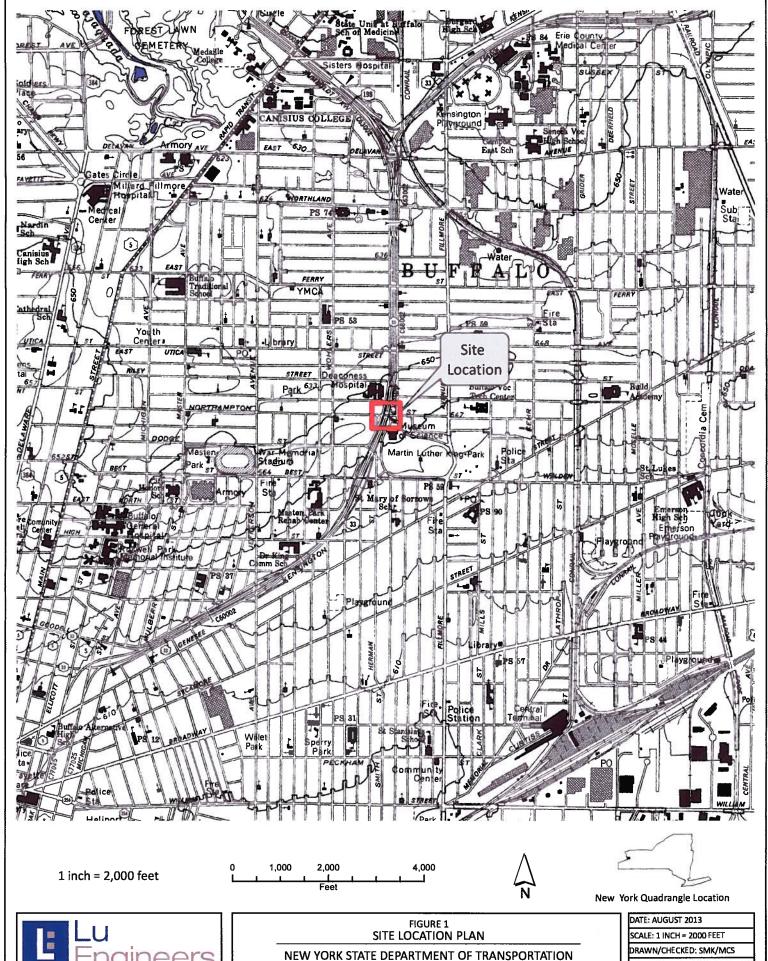
Record plans dated March 1963 indicate 10-inch and 8-inch Protection Sleeves around 8-inch and 6-inch High Pressure Gas Lines suspended from the bridge deck. Suspect asbestos pipe wrap may be located on the gas mains, beneath the protection sleeves. This material was not visible during the August 22, 2013 site inspection.

No other inaccessible/assumed ACMs were identified.

### Certification

Lu Engineers certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this report.





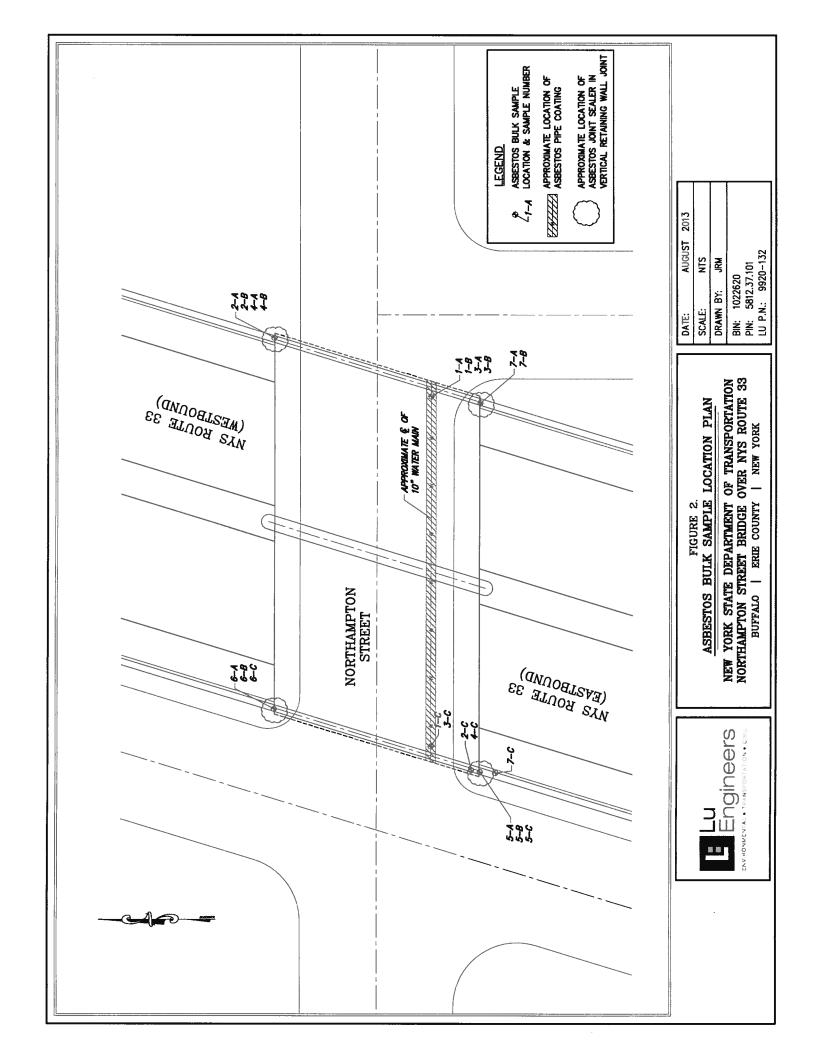


NORTHAMPTON STREET BRIDGE OVER NY ROUTE 33

BIN: 1022620 CITY OF BUFFALO, ERIE COUNTY, NEW YORK

PIN: 5812.37.101

DATA SQURCE: NYS DOT RASTER QUADRANGLES BUFFALO NE/NW, ENE COUNTY, NY DOTEDITION DATE: 1978 USGS CONTOUR DATE: 1954



# SAMPLE RESULTS

# NORTHAMPTON STREET BRIDGE OVER NY ROUTE 33 CITY OF BUFFALO, NEW YORK

# BIN 1022620

Sample #	Sample Location	Type of Material	Results % Asbestos	Amount of Material	Specification Item
1-A	East End of Bridge on Water Main	Grey Pipe Wrap	No Asbestos Detected	N.A.	N.A.
1-B	East End of Bridge on Water Main	Grey Pipe Wrap	No Asbestos Detected	N.A.	N.A.
1-C	West End of Bridge on Water Main	Grey Pipe Wrap	No Asbestos Detected	N.A.	N.A.
2-A	Northeast Corner of Bridge	Orange Bearing Pad	No Asbestos Detected	N.A.	N.A.
2-B	Northeast Corner of Bridge	Orange Bearing Pad	No Asbestos Detected	N.A.	N.A.
2-C	Southwest Corner of Bridge	Orange Bearing Pad	No Asbestos Detected	N.A.	N.A.
3-A	East End of Bridge on Water Main	Black Pipe Coating	1.1% Chrysotile	120 LF	210.3211
3-В	East End of Bridge on Water Main	Black Pipe Coating	Stop Positive	Refer to Sample 3-A	Refer to Sample 3-A
3-C	West End of Bridge on Water Main	Black Pipe Coating	Stop Positive	Refer to Sample 3-A	Refer to Sample 3-A
4-A	Northeast Corner of Bridge on Pedestal	Grey Masonry Coating	No Asbestos Detected	N.A.	N.A.
4-B	Northeast Corner of Bridge on Back Wall	Grey Masonry Coating	No Asbestos Detected	N.A.	N.A.
4-C	Southwest Corner of Bridge on Pedestal	Grey Masonry Coating	No Asbestos Detected	N.A.	N.A.
5-A	Southwest Corner of Bridge between Deck and Back Wall	Black Bond Breaker	No Asbestos Detected	N.A.	N.A.
5-B	Southwest Corner of Bridge between Deck and Back Wall	Black Bond Breaker	No Asbestos Detected	N.A.	N.A.
5-C	Southwest Corner of Bridge between Deck and Back Wall	Black Bond Breaker	No Asbestos Detected	N.A.	N.A.
6-A	Northwest Corner of Bridge between Sidewalk and Cheek Wall	Brown Joint Filler	No Asbestos Detected	N.A.	N.A.

# SAMPLE RESULTS

# NORTHAMPTON STREET BRIDGE OVER NY ROUTE 33 CITY OF BUFFALO, NEW YORK

# BIN 1022620

Sample #	Sample Location	Type of Material	Results % Asbestos	Amount of Material	Specification Item
6-B	Northwest Corner of Bridge between Sidewalk and Cheek Wall	Brown Joint Filler	No Asbestos Detected	N.A.	N.A.
6-C	Northwest Corner of Bridge between Sidewalk and Cheek Wall	Brown Joint Filler	No Asbestos Detected	N.A.	N.A.
7-A	Southeast Corner of Bridge in Retaining Wall Joint	Black Joint Sealer	30% Chrysotile	80 LF	210.3411
7-B	Southeast Corner of Bridge in Retaining Wall Joint	Black Joint Sealer	Stop Positive	Refer to Sample 7-A	Refer to Sample 7-A
7-C	Southwest Corner of Bridge in Retaining Wall Joint	Black Joint Sealer	Stop Positive	Refer to Sample 7-A	Refer to Sample 7-A

LF – Linear Foot N.A. – Not Applicable

APPENDIX A
Asbestos Survey Fact Sheet

# **Asbestos Survey Fact Sheet**

### Name and Address of Building/Structure:

Northampton Street Bridge over NY Route 33 (BIN 1022620) City of Buffalo, Erie County, New York

#### Name and Address of Building/Structure Owner:

New York State Department of Transportation 50 Wolf Road Albany, New York 12232

#### Name and Address of Owner's Agent:

Lu Engineers 175 Sully's Trail, Suite 202 Pittsford, New York 14534

### Name of the Firm & Persons Conducting the Survey:

Lu Engineers
Mitchell C. Smith (NYSDOL Cert. #97-15393)

#### **Date Survey Was Conducted:**

August 22, 2013

List of Homogeneous Areas (Items in Bold Confirmed ACM)

Grey Pipe Wrap
Orange Bearing Pad
Black Pipe Coating
Grey Masonry Coating
Black Bond Breaker
Brown Joint Filler
Black Joint Sealer

APPENDIX I	B
	_
License and Certification	S

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit State Campus, Building 12 Albany, NY 12240

# **ASBESTOS HANDLING LICENSE**

Joseph C. Lu Engineering And Land Surveying, P.C. Suite 202

175 Sully's Trail

Pittsford, NY 14534

FILE NUMBER: 99-0907 LICENSE NUMBER: 29286

LICENSE CLASS: RESTRICTED DATE OF ISSUE: 01/17/2013

EXPIRATION DATE: 01/31/2014

Duly Authorized Representative - Susan Hilton:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving aspestos or aspestos material.

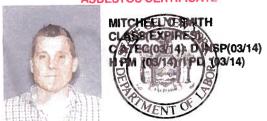
This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

SH 432 (8/12)

Eileen M. Franko, Acting Director For the Commissioner of Labor

### STATE OF NEW YORK - DEPARTMENT OF LABOR

**ASBESTOS CERTIFICATE** 



CERT# 97-15393 DMV# 992171375

MUST BE CARRIED ON ASBESTOS PROJECTS



EYES GRN
HAIR BRO
HGT 5' 08"

IF FOUND RETURN TO: NYSDOL - L&C UNIT ROOM 161A BUILDING 12 STATE OFFICE CAMPUS ALBANY NY 12240

# NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER



Expires 12:01 AM April 01, 2014 Issued April 01, 2013

# CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. BRUCE HOOGESTEGER
PARADIGM ENVIRONMENTAL SERVICES INC
179 LAKE AVENUE
ROCHESTER, NY 14608

NY Lab Id No: 10958

is hereby APPROVED as an Environmental Laboratory for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE All approved subcategories and/or analytes are listed below:

#### Miscellaneous

Asbestos in Friable Material

EPA 600/M4/82/020

Item 198.1 of Manual

Asbestos in Non-Friable Material-PLM

Item 198.6 of Manual (NOB by PLM)

Asbestos in Non-Friable Material-TEM

Item 198.4 of Manual

Lead in Dust Wipes

**EPA 6010B** 

Lead in Paint

EPA 6010B

**Sample Preparation Methods** 

APP. 14.2, HUD JUNE 1995

**EPA 3050B** 

Serial No.: 48478

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

APPENDI	ХC
Laboratory Analysis Report of Cust	



# PLM & TEM BULK ASBESTOS REPORT

Client: Location: Lu Engineers

NYS-DOT-PIN 5812.37.131 - BIN 1022620

Northampton Street Over Route 33, City of Buffalo, New York

Job No: 9817-13

**Page:** 1 of 2

Sample Date:

8/22/2013

				PLM Asbestos Fibers Type &	PLM Total	N O	TEM Asbestos Fibers Type &	TEM Total	PLM Non-Asbestos	PLM Matrix
Client ID	Lab ID	Sampling Location	Description	Percentage	Asbestos	В	Percentage	Asbestos	Fibers Type & Percentage	Material %
1-A	64585	East Side of Bridge on Water Main	Gray Fibrous Pipe Wrap	None Detected	0%		Not Required	N/A	Cellulose 95%	5%
1-B	64586	East Side of Bridge on Water Main	Gray Fibrous Pipe Wrap	None Detected	0%		Not Required	N/A	Cellulose 95%	5%
<b>1-</b> C	645B7	West Side of Bridge on Water Main	Gray Fibrous Pipe Wrap	None Detected	0%		Not Required	N/A	Cellulose 95%	5%
2-A	645BB	Northeast Corner of Bridge	Orange Bearing Pad	None Detected	0%		Not Required	N/A	Cellulose 90%	10%
2-B	64589	Northeast Corner of Bridge	Orange Bearing Pad	None Detected	0%		Not Required	N/A	Cellulose 90%	10%
2-C	64590	Southwest Corner of Bridge	Orange Bearing Pad	None Detected	0%		Not Required	N/A	Cellulose 90%	10%
3-A	64591	East Side of Bridge on Water Main	Black Pipe Coating	Chrysotile 1.1%	1.1%		Not Required	N/A	None Detected	98.9%
3-B	64592	East Side of Bridge on Water Main	Black Pipe Coating	Stop	Positive		Sample	Not	Analyzed	N/A
3-C	64593	West Side of Bridge on Water Main	Black Pipe Coating	Stop	Positive		Sample	Not	Analyzed	N/A
4-A	64594	Northeast Corner of Bridge on Pedestal	Gray Masonry Coating	Inconclusive No Asbestos Detected	0%	V	None Detected	<1.0%	None Detected	100%

NVLAP®

Lab Code 200530-0 for PLM Analysis

V This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite. PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 2000530-0), New York State Department of Health, ELAP Method 198.1,198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

√ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

# denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

\*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. *Quantitative transmission electron microscopy* is currently the only method that can be used to determine if this

material can be considered or treated as non-asbestos containing.

Microscope:

PLM Date Analyzed: B/24/2013

Olympus BH-2 #232953

Analyst:

T. Bush

TEM Date Analyzed: B/26/2013

TEM Analyst: J. Peter Donato

Laboratory Results Approved By:

Asbestos Technical Director

Mary Dohr

ELAP ID No.: 10958

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.

**Bulk Sample Chain of Custody** 

9817-13 ENVENDAMENTS

			りにより
roject Name: NYSDO	NYSDOT - PIN 5812.37.121	Lu Project # 9920-132	
ite Address:	BIN 1022620	Laboratory Name:	Paradigm Environmental Services
Northampt City of	Northampton Street over Route 33 City of Buffalo, New York		
Results to:	Sample Type	Laboratory Address:	s: 179 Lake Avenue
	A Condition of the Cond		Rochester, New York
Ju Engineers	X NYS ELAP PLM/TEM	Turn Around Time	Comments:
75 Sullys Trail, Suite 202	C PLM Only	☐ Immediate ☐	□ 12 HR
HUSTOIG, IN Y 14534			310F FOSITIVE - EXCEPT FOR PAINT::
mail: sue-hilton@luengineers.com, msmith@luengineers.com	h@luengineers.com	<b>⊠</b> 72 HR	☐ 5 Day

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
N-1	East Side of bridge on	grey pipe wrap	64585
1-8	()		586
7-1	West side Of bridge on	~	£85
2-4	NE court of pugge	bering pad	885
2-8		)1	689
2-7	SW comes OF bridge	)1	590
3-0	Fast side of Scidy on	black proc coating	165
3-8	- Warden		265
7-8	Wost-side of bridge on	1	593
とート	NE COINE OF bild of Redestal	gres masoning Coathing / / /	465
Date Sample	Date Sampled: 8/72 / 75.2	Relinquished By 10 My	Date/Time 8/77/76.3.0 2

Received By\_

Inspector: \_

Date/Time/193/13 1408



# PLM & TEM BULK ASBESTOS REPORT

Client:

Lu Engineers

Job No: 9818-13

Location:

NYS-DOT-PIN 5812.37.131 - BIN 1022620

Page: 1 of 2

Northampton Street Over Route 33, City of Buffalo, New York Sample Date:

8/22/2013

	atc.	0/22/2013		PLM Asbestos	PLM	N	TEM Asbestos	TEM	PLM	PLM
Client ID	Lab ID	Sampling Location	Description	Fibers Type &	Total	0	Fibers Type &	Total	Non-Asbestos	Matrix
Chentib	Labib	Samping Location	Description	Percentage	Asbestos	В	Percentage	Asbestos	Fibers Type &	Material
									Percentage	%
4-B	64595		Gray Masonry	Inconclusive	0%		None Detected	<1.0%	None Detected	100%
		Bridge on Back Wall	Coating	No Asbestos Detected		V				
4-C	64596	Southwest Corner of Bridge on Pedestal	Gray Masonry Coating	Inconclusive No Asbestos Detected	0%	V	None Detected	<1.0%	None Detected	100%
5-A	64597	Southwest Corner of Bridge Between Deck and Back Wall	Gray Bond Breaker	Inconclusive No Asbestos Detected	0%	ν	None Detected	<1.0%	None Detected	100%
5-B	6459B	Southwest Corner of Bridge Between Deck and Back Wall	Gray Bond Breaker	Inconclusive No Asbestos Detected	0%	V	None Detected	<1.0%	None Detected	100%
5-C	64599	Southwest Corner of Bridge Between Deck and Back Wall	Gray Bond Breaker	Inconclusive No Asbestos Detected	0%	V	None Detected	<1.0%	None Detected	100%
6-A	64600	Northwest Corner of Bridge Between Sidewall and Cheekwall	Brown Fibrous Joint Filler	Inconclusive No Asbestos Detected	0%	V	None Detected	<1.0%	Cellulose 80%	20%
6-B	64601	Northwest Corner of Bridge Between Sidewall and Cheekwall	Brown Fibrous Joint Filler	Inconclusive No Asbestos Detected	0%	V	None Detected	<1.0%	Cellulose B0%	20%
6-C	64602	Northwest Corner of Bridge Between Sidewall and Cheekwall	Brown Fibrous Joint Filler	Inconclusive No Asbestos Detected	0%	٧	None Detected	<1.0%	Cellulose 90%	10%
7-A	64603	Southeast Corner of Bridge in Retaining Wall Joint	Black Fibrous Joint Sealer	Chrysotile 30%	30%	V	Not Required	N/A	None Detected	70%
7-В	64604	Southeast Corner of Bridge in Retaining Wall Joint	Black Joint Sealer	Stop	Positive	V	Sample	Not	Analyzed	N/A

**ELAP ID No.: 10958** 

for PLM Analysis

 $m \mathring{V}$  This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite. PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 2000530-0), New York State Department of Health, ELAP Method 198.1,198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

 $\sqrt{\,}$  NOB (non-friable organically bound) Classified for Analytical Purposes Only.

# denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

\*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non- $\underline{friab}$ le organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this

material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 8/24/2013

T. Bush

TEM Date Analyzed: B/26/2013

TEM Analyst: J. Peter Donate

Microscope: Analyst:

Olympus BH-2 #232953

Laboratory Results Approved By: **Asbestos Technical Director** 

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.

9818-13 ENGRANGENTAL: TANSFORMATION: OVEL 705-3 COC

**Bulk Sample Chain of Custody** 

				į.
roject Name: NYSDO	NYSDOT – PIN 5812.37.121	Lu Project # 9920-132	)-132	
Site Address:	BIN 1022620	Laboratory Name:	Paradigm Environmental Services	
Northampte City of	Northampton Street over Route 33 City of Buffalo, New York			
Results to:	Sample Type	Laboratory Address:	s: 179 Lake Avenue	
			Rochester, New York	
Lu Engineers	X NYS ELAP PLM/TEM	Turn Around Time	Comments:	
175 Sullys Trail, Suite 202	□ PLM Only □ TEM O=1::	☐ Immediate ☐	12 HR	
Pittsford, NY 14534	☐ 1EM OILLY	24 HR □	310F POSITIVE - EXCEPT FOR FAINT::	
'mail: sue-hilton@luengineers.com, msmith@luengineers.com	h@luengineers.com		☐ 5 Day	

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
4-8	NE COLLECT OF BOS days on Ballaway	grey masonry cating	56549
7-6	SN COLLEY OF Bride ON		596
2 - 2	SN Corner Of bridge between	Bond breaker	597
51-13		)	348
2-6			665
6 - A	NN Corner of badge	brown doint Alle	000
6,8			100
) ' )	)/		602%
7-4	SE corner of birdge in retarning wall loons	black Joint Sealer	509
7-8			109

175 Sullys Trail, Suite 202, Pittsford, NY 14534 | Ph 585.385.7417 | Fax 585.385.3741 | Iuengineers.com

Relinquished By

Date Sampled:

Inspector:

Received By\_

-Date/Time 5/72 75.36 70-

Date/Time 1139



# PLM & TEM BULK ASBESTOS REPORT

Client:

Lu Engineers

**Iob No:** 9819-13

Location:

NYSDOT -PIN 5812.37.121

Page: 1 of 2

BIN 1022620 Northampton Street Over Route 33, City of Buffalo, New York

Sample Date:

8/22/2013

				PLM Asbestos	PLM	N	TEM Asbestos	TEM	PLM	PLM
	l <sup>!</sup>			Fibers Type &	Total	0	Fibers Type &	Total	Non-Asbestos	Matrix
Client ID	Lab ID	Sampling Location	Description	Percentage	Asbestos	В	Percentage	Asbestos	Fibers Type &	Material
							_		Percentage	%
7-C	64605		Black Joint Sealer	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	100%
		Retaining Wall Joint				V				
						ľ	İ			
		1 1111111111111111111111111111111111111								
						<u> </u>			man comment	
						ļ				
						$\vdash$				
						┢				

**ELAP ID No.: 10958** 

 $ilde{V}$  This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite. PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 2000530-0), New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

 $\sqrt{\mathsf{NOB}}$  (non-friable organically bound) Classified for Analytical Purposes Only.

# denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

\*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically  $bound\ materials.\ \textit{Quantitative\ transmission\ electron\ microscopy}\ is\ currently\ the\ only\ method\ that\ can\ be\ used\ to\ determine\ if\ this$ 

material can be considered or treated as non-asbestos containing.

Olympus BH-2 #232953

PLM Date Analyzed: N/A

TEM Date Analyzed:

Microscope: Analyst:

N/A

TEM Analyst: N/A

Laboratory Results Approved Ry: **Asbestos Technical Director** 

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.

3ulk Sample Chain of Custody	of Custody		9819-13 LUCIO COCCESS 3643COC
roject Name: NYSDO	NYSDOT - PIN 5812.37.121	Lu Project # 9920-132	
ite Address:	BIN 1022620	Laboratory Name: Parad	Paradigm Environmental Services
Northampte City of	Northampton Street over Route 33 City of Buffalo, New York		
Results to:	Sample Type	Laboratory Address: 179	179 Lake Avenue
ıı Engineers	☒ NYS ELAP PLM/TEM	Turn Around Time	Comments:
75 Sullys Trail, Suite 202 Sitteford NV 14524	☐ PLM Only	☐ Immediate ☐ 12 HR	CTOP POSITIVE EXCEPT ROD PAINT!
145014, 141 14554		☐ 24 HR ☐ 48 HR	
mail: sue-hilton@luengineers.com, msmith@luengineers.com	h@luengineers.com	<b>X</b> 72 HR □ 5 Day	

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
7-6	SW care of bridge on	JE 550 55	64605
	7		
		ę	
Date Sample	Date Sampled: 8/77/70,2	Relinquished By WWW	Date/Time 5 77 70-5 2
Inspector: _	Inspector:	Received By	Date Time \$\J3/13 1405

# **Asbestos-Containing Materials Inspection**

FOR

E Utica Street over
Kensington Expressway (Rt. 33)
City of Buffalo,
Erie County, New York

PREPARED FOR

LaBella Associates 300 State St #201 Rochester, NY 14614

FOR SUBMISSION TO

New York State Department of Transportation Region 5

100 Seneca Street

Buffalo, NY 14203

PIN - 5512.52.123 D038277 Watts Project No. 20220255 August 2023, Revised September 2023

Submitted by:

Watts Architects &Engineers



# Watts Project Contact and Asbestos Fact Sheet



#### Name and Address of Building/Structure

BIN 1022630 - E Utica St Bridge over

Kensington Expressway (NYS Route 33)

City of Buffalo, Erie County, New York

#### Name and Address of Building/Structure Owner

New York State Department of Transportation

50 Wolf Road

Albany, New York 12232

#### Name of the Firm & Persons Conducting the Inspection

Watts Architects & Engineers

Matthew E. Holquist (NYSDOL Cert #01-08239)

Robert S. Swick (NYSDOL Cert #20-05731)

William G. Coyle (NYSDOL Cert #17-39002)

#### Date(s) the Inspection Was Conducted

May 10 & 23, 2023



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#### 1.0 / Introduction

Watts Architects & Engineers, D.P.C. (Watts) was retained by New York State Department of Transportation (NYSDOT), in conjunction with LaBella Associates, D.P.C. (LaBella) being the lead Design Engineers for the Kensington Expressway Project (PIN 5512.52), to complete an Asbestos-Containing Materials (ACM) Inspection of the E Utica Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022630) as part of the overall larger project, located in the City of Buffalo, Erie County, New York. The overall PIN 5512.52 project includes the covering of the Kensington Expressway between Dodge Street and Sidney Street, with the purpose of re-creating the original Humboldt parkway setting that existed prior to the construction of the expressway, while maintaining the expressway as is, and at its current capacity. The project involves the demolition of five bridge structures and associated adjacent retaining walls throughout the project corridor along the Kensington Expressway. A separate report was prepared for each of the bridge structures throughout the project corridor, which includes:

- BIN 1022610 Dodge Street Bridge over NYS Route 33
- BIN 1022620 Northampton Street Bridge over NYS Route 33
- BIN 1022630 East Utica Street Bridge over NYS Route 33
- BIN 1022640 East Ferry Street Bridge over NYS Route 33
- BIN 1022609 Best Street Bridge over NYS Route 33

Since the overall retaining wall system throughout the project corridor isn't specifically associated with a single bridge, the ACM information associated with all of the retaining wall structures throughout the overall project corridor is summarized within each of the bridge reports noted above (the information is redundant). The information and estimated quantities are based upon the project limits at the time of reporting.

See Figure 1 – Project Location Map within **Appendix B – Figures**. The purpose of the bridge inspection was to identify and sample suspect ACM which may require abatement prior to or during demolition of the structure. The inspection was limited to the review of available records and examination of the areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. The following information summarizes the results of the investigation.

# 2.0 / Inspection Results

The inspection involved the review of available historical record plans and previously completed asbestos inspection reports in an attempt to identify known or suspect ACM and an onsite inspection that fulfilled the NYSDOT methodology of collecting three (3) bulk samples for each identified homogeneous suspect ACM. Watts collected of a total of three (3) bulk samples to represent the one (1) identified suspect ACM that are present at the structure (and were not previously sampled). ACM is defined as any material containing more than one percent (1%) of asbestos. Based on the information obtained during the records review, laboratory analysis of bulk samples collected as part of this investigation, previous sampling and analysis (if applicable), and visual observations, the following information regarding ACM has been identified at BIN 1022630 – E Utica St Bridge over Kensington Expressway (NYS Route 33).

#### Confirmed Asbestos-Containing Materials (ACM)

Based on the record plan review, previous ACM inspection reports, subsequent field inspection, and laboratory analysis of collected samples, the following ACM was identified:



Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Grey Sheet Packing	Between Deck & Tops of Abutment at Both Ends of Bridge	140 SF	Non-Friable	Good	210.3312
Utility Conduit Packing / Sealant	Perimeter of the 12" Natural Gas Utility Casing (8" Gas Utility Within the Casing) that Penetrates Through Each Abutment	6 LF (~1.25 SF)	Non-Friable	Poor to Fair	210.481101
Abutment / Retaining Wall Caulking	Within Retaining Wall Vertical Expansion Joints (One at Each Corner of the Bridge and Located Every 90 Linear Feet of Retaining Wall)	~2,179 LF (~545 SF for NYSDOL Reporting Purposes)	Non-Friable	Fair to Good	210.3411
Rail Post Base Grey Caulk	Base of Metal Guide Rail Posts on Top of the Retaining Walls in the Northern Portion of the Project Corridor	2,457 LF (~205 SF for NYSDOL Reporting Purposes)	Non-Friable	Good	210.3411

#### **Confirmed ACM Details**

During the record plan review, previous ACM inspection reports, and onsite inspection, the following ACM was identified:

#### **Dark Grey Sheet Packing**

The asbestos-containing sheet packing associated with this bridge was previously tested and identified as an ACM during the 2022 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

Dark grey asbestos-containing sheet packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge. Most of the material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations. It is estimated that the total amount of dark grey sheet packing on the bridge is approximately 140 square feet (approximately 70 square feet per abutment). The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**.

#### Utility Conduit Packing / Sealant

The asbestos-containing utility conduit packing / sealant associated with the gas utility at this bridge was previously tested and identified as an ACM during the 2022 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

An asbestos-containing packing/sealant is located at each abutment penetration of the 12" utility conduit that contains an 8" gas line. The approximately 2.5" thick bead of packing/sealant is located around the perimeter of the conduit. The ACM was previously observed to be generally intact at the eastern abutment, however, at the western abutment, approximately half of the ACM was previously observed to be dislodged and laying on top of the abutment shelf. It is estimated that the total amount of asbestos-containing packing/sealant associated with the two abutment penetrations is approximately 6 linear feet (1.25 square feet for NYSDOL reporting purposes).



#### Abutment / Retaining Wall Caulking

The asbestos-containing caulking associated with this bridge was previously tested and identified as an ACM during the 2022 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

An asbestos-containing caulking is located within the vertical expansion joints of the retaining walls along both sides of the Kensington Expressway (NYS Route 33) project corridor. There are wall joints spaced out approximately every 30 linear feet along the retaining wall, with an expansion joint (filled with a non-ACM joint filler and covered with the asbestos-containing caulking) being located at every third joint. The two joints in between the expansion joints are each control joints with no joint fillers or ACM caulking. The control joints are tooled in as stress relief points that provide a potential cracking location within the joint itself as an effort to prevent wall surface cracking. The expansion joints (with non-ACM joint filler and asbestos-containing caulking) allow for expansion/contraction of the concrete wall. In addition to the 30' spaced two control joints and one expansion joint, there are additional expansion joints (with associated asbestos-containing caulking) in close proximity at each corner of the project corridor bridges.

The ACM was generally observed to be intact in most expansion joints, however, it was observed that the asbestos-containing caulking was no longer intact within some of the expansion joints or was sometimes covered with a newer, non-asbestos-containing caulking. It appears that the coloration of the caulking has been affected by staining and weathering, as it is not consistent in color throughout the corridor. In general, the asbestos-containing caulking was observed to be grey in color, but was sometimes darker or lighter grey, sometimes lighter or darker tan to brown. Thus, for estimating purposes, it is assumed that all of the caulking present within each expansion joint throughout the project corridor is an ACM (or is a newer non-ACM caulking but is applied directly onto the remnant asbestos-containing caulking).

It is estimated that the total amount of caulking associated with the retaining wall system throughout the project corridor is approximately 2,179 linear feet. The caulking is approximately 3" wide on average and there are a total of 108 vertical expansion joints that extend from the Kensington Expressway (NYS Route 33) roadway surface up the entire retaining wall and also extending along the horizontal surface (approximately 1.5') on top of the retaining wall. For NYSDOL reporting purposes, this is equivalent to approximately 545 square feet in total (note that NYSDOL considers this type of ACM a reportable quantity in square feet, while NYSDOT considers caulking a linear foot pay item). The approximate locations of the ACM caulking that are in close proximity to the bridge are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s)** and **Asbestos-Related Record Plan and Project Information**.

#### Rail Post Base Grey Caulk

The asbestos-containing grey caulk associated with the metal guide rail post bases associated with this bridge was previously tested and identified as an ACM during the 2022 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

This ACM has also been confirmed present in association with the metal guide rail post bases throughout the northern portion of the project corridor where the originally installed metal guide rail system still remains. The southern portion of the project corridor has a different guide rail system that consists of recently installed decorative concrete guide rails that do not have associated ACM (however, the retaining walls below these areas still do have the asbestos-containing caulking associated with the expansion joints).

Grey asbestos-containing caulking compound is located around the perimeter of the guide rail post base plates associated with the retaining walls in the northern portion of the project corridor. It is important to note that the base plates associated with the guide rails and fencing posts located on the bridge curb/knee wall superstructure are of a different construction and do not have any associated ACM. Each rectangular guide rail post base plate with ACM is approximately  $8" \times 14"$  (a total of 3.67 linear feet per plate) and has an approximate 1" thick bead of caulk around the perimeter of each plate. There are approximately 670 guide rail post base plates with ACM associated with the retaining walls throughout the northern portion of the project corridor. Thus, it is estimated that the total amount of grey caulking compound associated with the guide rail post base plates is approximately



2,457 linear feet (205 square feet for NYSDOL reporting purposes). The ACM was generally observed to be intact in most locations. The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, details regarding the various retaining walls throughout the project corridor completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

#### **Inaccessible Assumed ACM**

During the record plan review, previous ACM inspection reports, and onsite inspection, the following inaccessible assumed ACM was identified.

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Waterproofing Item 61 – Bituminous Material	Back Side of Abutments and Retaining Walls, Counterforts, Top of Footer Piles	~234,486 SF	Non-Friable	Unknown	210.481201
Felt Expansion Material	Buried Retaining Wall Penetrations Associated with the 16" Water Utility at Landen Street	~8 LF (~34 SF for NYSDOL Reporting Purposes)	Non-Friable	Unknown	210.3111

#### **Inaccessible Assumed ACM Details**

#### Waterproofing - Item 61 - Bituminous Material

This suspect ACM was identified during the record plan review in association with the retaining walls, counterforts, top of the footer piles, and abutments throughout the project corridor. According to the original Kensington Expressway construction documents, this suspect ACM was applied to the following locations: the back sides of the retaining walls; around all counterforts; extended 1' on top of the footing; and, the backs of all abutments and wingwalls from the top of footings to the bottom of pavement. As a result of this suspect ACM being buried beneath the concrete and asphalt roadway surface and the concrete sidewalks, this suspect ACM could not be accessed for sampling and subsequent submission for laboratory analysis. It is recommended that the material be tested for asbestos content prior to construction activities and any asbestos abatement because more often than not, Item 61 – Bituminous Material is found not to be an ACM, however, on occasion it is identified as an ACM, thus it must be assumed to be ACM.

It is estimated that the total amount of the suspect ACM Waterproofing – Item 61 – Bituminous Material is approximately 234,486 square feet throughout the project corridor. Quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design and the record plan information that details the approximate locations of this inaccessible/assumed ACM are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan Information**.

#### Felt Expansion Material

Record plans dated 1967 indicate that a suspect asbestos-containing felt expansion material was installed at each retaining wall penetration buried beneath the Kensington Expressway (NYS Route 33) in association with a 16" water line at Landon Street, which is the next street south of E. Utica Street (approximately 350' south). While there is no bridge located at Landon Street, disturbance of the retaining wall and this suspect ACM is currently planned as part of the overall Kensington Expressway Project (PIN 5512.52), and as a result, this report is the most logical place to identify this Inaccessible/Assumed ACM that is affected by the project.



It is assumed that the 16" diameter water utility line (having a circumference of 50") is completely wrapped with the suspect asbestos-containing felt expansion material through the full thickness of each of the approximate 4' wide retaining wall bases. This results in approximately 34 square feet in total of felt expansion material (17 square feet at each retaining wall penetration). The 1967 record plan shows the felt expansion material to be used at a total of 2 retaining wall penetrations (note that the ramp retaining wall is not to the water line depth at this location). See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan Information** for the record plan drawing that identifies this Inaccessible/Assumed ACM.

For a complete listing of the suspect ACM that was sampled as part of this inspection, see the Asbestos Bulk Sample Summary Table that is included later within this report.

# 3.0 / Inspection Procedures

Watts reviewed information available via NYSDOT's Bridge Data Information System (BDIS) and Record Plans that were made available by NYSDOT, Region 5.

A New York State Department of Labor (NYSDOL) certified asbestos inspector from Watts visited the site and collected bulk samples of all accessible suspect ACM that are present at the structure and were not previously sampled. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

The assessment of the structure included observations to estimate the approximate amount (length or area) of suspect ACM, if present. Photographs taken by Watts during the inspection are included within **Appendix A** – **Photos**. Where possible, Watts visually inspected identified suspect ACM to assess their condition. The conditions of the ACM are classified as good, fair, or poor. The requirement for each designation is as follows:

Good: Material with no visible damage or deterioration or showing very limited damage or deterioration.

Fair: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering less than one tenth of the surface if the damage is evenly distributed or up to 25% of the material if the damage is localized.

Poor: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering more than one tenth of the surface if the damage is evenly distributed or more than 25% of the material if the damage is localized. Material with large areas hanging from the substrate, delaminated, heavily gouged, crushed, etc.

Bulk samples of accessible suspect ACM that have not been previously analyzed were collected during the site inspection of the subject structure. In accordance with NYSDOT's Transportation Environmental Manual (TEM), three (3) samples were taken of each homogeneous material that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. Samples were delivered with the proper chain-of-custody forms to a New York State-accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except non-friable organically bound (NOB) materials were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.1. In addition, all samples analyzed via 198.1 were examined for the presence of vermiculite. NOBs, which include, but are not limited to, tars, bond breakers, bearing pads, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.6. Any NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy using NY ELAP Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by Transmission Electron Microscopy if the PLM analysis does not confirm the presence of asbestos.



An Asbestos Bulk Sample Summary Table can be found after Section 5.0 of this report, and it includes information on all suspect ACM sampled during this inspection. In addition, it enumerates all suspect homogeneous materials identified, corresponding bulk sample numbers, results of the various testing conducted, and whether or not the items are ACM. Drawing(s) identifying the approximate locations of asbestos bulk samples and detailed information regarding identified ACM (if present) are included within Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures**. The asbestos laboratory report(s) and associated chain-of custody form(s) are included within **Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)**. The related asbestos license and certification information is included within **Appendix D – License(s) and Certification(s)**.

# 4.0 / Inspection Limitations

This inspection was conducted in accordance with NYSDOT TEM, NYSDOL, and United States Environmental Protection Agency (USEPA) asbestos regulations. Collection of bulk samples of suspect ACM was limited to those materials accessible using hand tools. Homogeneous materials were identified and located based on visual observation from accessible locations at the structure.

No sub-surface investigation (beyond 6"-12" below ground surface at the limited locations where and if the soil immediately adjacent to the vertical surfaces of the abutments and wing walls was able to be removed with a hand shovel) was performed by Watts to investigate for suspect ACM or underground utilities in the immediate vicinity of the structure. The review of the historical bridge records did not identify any suspect ACM associated with or below the wearing surface (pavement, concrete, asphalt, etc.) and as a result, no coring was conducted to inspect beneath it.

No asbestos inspection can entirely eliminate the uncertainty regarding the potential for undiscovered ACM. The presence of hidden suspect ACM, inconsistencies with use of different construction products or inconsistencies within the mixture of a given product, or unforeseen circumstances associated with the assumptions made to the homogeneity of suspect ACM could potentially result in the existence of additional suspect ACM and/or the unknown presence of ACM. The inspection performed by Watts was conducted exercising all appropriate due diligence and was intended to reduce, but not eliminate, any uncertainty or confusion regarding the potential for ACM associated with the structure. The information obtained from the review of the historical record plans, field observations, and the laboratory analysis of the bulk samples collected was used to determine the presence or the absence of ACM, and if present, its quantity. The conclusions made during the completion of this inspection report used best professional judgement and sound industry practices, however no guarantees or warranties are made, nor implied.

This asbestos inspection report is not intended to be utilized as a bid document for an asbestos abatement scope of work. This report is intended to satisfy the requirements of NYS Code Rule 56-5 and the NYSDOT TEM for asbestos inspections.

# 5.0 / Conclusions and Recommendations

The following ACM was identified during this investigation:

- Dark Grey Sheet Packing (Pay Item 210.3312 Removal and Disposal of Bond Breaker/Filler ACM (BV14) Square Foot) Approximately 140 square feet (70 square feet each side) of dark grey sheet packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge at BIN 1022630.
- Utility Conduit Packing / Sealant (Pay Item 210.481101 Removal and Disposal of Miscellaneous ACM (BV14) Foot) Approximately 6 linear feet (~1.25 square feet for NYSDOL reporting purposes) of utility conduit packing / sealant is located around the perimeter of the gas utility line conduit abutment wall penetrations at both ends of the bridge at BIN 1022630.
- Abutment / Retaining Wall Caulking (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14)
   Foot) Approximately 2,179 linear feet (~545 square feet for NYSDOL reporting purposes) of asbestos-



- containing caulking is located within the vertical expansion joints of the abutments / retaining walls throughout the Kensington project corridor.
- Rail Post Grey Caulk (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot) Approximately 2,457 linear feet (~205 square feet for NYSDOL reporting purposes) of asbestos-containing grey caulking is located around the perimeter of the metal guild rail post base plates located on the retaining walls throughout the northern portion of the project corridor.

The following inaccessible/assumed ACM was identified during this investigation:

- Waterproofing Item 61 Bituminous Material (Pay Item 210.481201 Removal and Disposal of Miscellaneous ACM (BV14) Square Foot) – Approximately 234,486 square feet of this inaccessible/assumed ACM is associated with the back side of the abutments and retaining walls, counterforts, and top of footer piles throughout the project corridor.
- Felt Expansion Material (Pay Item 210.3111 Removal and Disposal of Underground Pipe ACM (BV14) Foot) Approximately 8 linear feet (~34 square feet for NYSDOL reporting purposes) of felt expansion material is associated with where the 16" water utility line penetrates both of the retaining walls at Landen Street (which is the next street located south of E. Utica Street).

If any ACM will be disturbed during the proposed bridge demolition or overall Kensington Expressway renovation project, the disturbance is considered an asbestos abatement project and must be conducted by a properly licensed asbestos abatement contractor in accordance with all applicable regulations. NYSDOL Blanket Variance 14 provides certain reliefs from the NYSDOL ICR 56 requirements provided the ACM remains in a non-friable condition. The development of asbestos-related NYSDOT Special Notes for use during construction will need to be completed as part of the design process. In addition, all persons involved with the bridge renovation or reconstruction should be made aware of the presence of ACM at this structure.

If any additional untested suspect ACM is identified during subsequent investigations or during construction, the materials must be sampled by certified personnel and analyzed for asbestos content by a certified laboratory.



## Asbestos Bulk Sample Summary Table

BIN 1022630 - E Utica St Bridge over Kensington Expressway (NYS Route 33) City of Buffalo, Erie County, New York P.I.N. 5512.52.123

## Identified asbestos-containing materials are in bold.

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022630-01	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022630-02	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022630-03	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected



# Appendix A

**Photos** 



Photo 1 – View to the north from the middle of the E Utica St Bridge over Kensington Expressway (Route 33) (BIN 1022630).

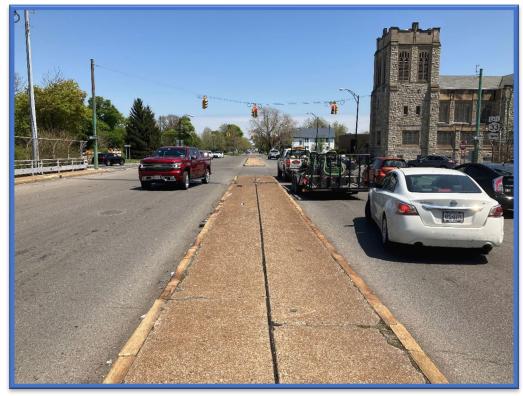


Photo 2 - View to the east from the middle of the E Utica St Bridge over Kensington Expressway (Route 33) (BIN 1022630).



Photo 3 - View to the south from the middle of the E Utica St Bridge over Kensington Expressway (Route 33) (BIN 1022630).



Photo 4 – View to the west from the middle of the E Utica St Bridge over Kensington Expressway (Route 33) (BIN 1022630).



Photo 5 - BIN plate located on the adjacent fence at the northeast quadrant of BIN 1022630.



Photo 6 – View looking south towards the northeast side of BIN 1022630 during the night-time inspection that occurred after closing the EB Kensington Expressway (EB Route 33).



Photo 7 - Compressed asbestos sheet packing located on the abutment shelves at BIN 1022630 was confirmed as an ACM. Picture taken at the southeast quadrant of the bridge.



Photo 8 – Compressed asbestos sheet packing located on the abutment shelves at BIN 1022630 was confirmed as an ACM. Picture taken at the center of the east abutment.





Photo 9 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

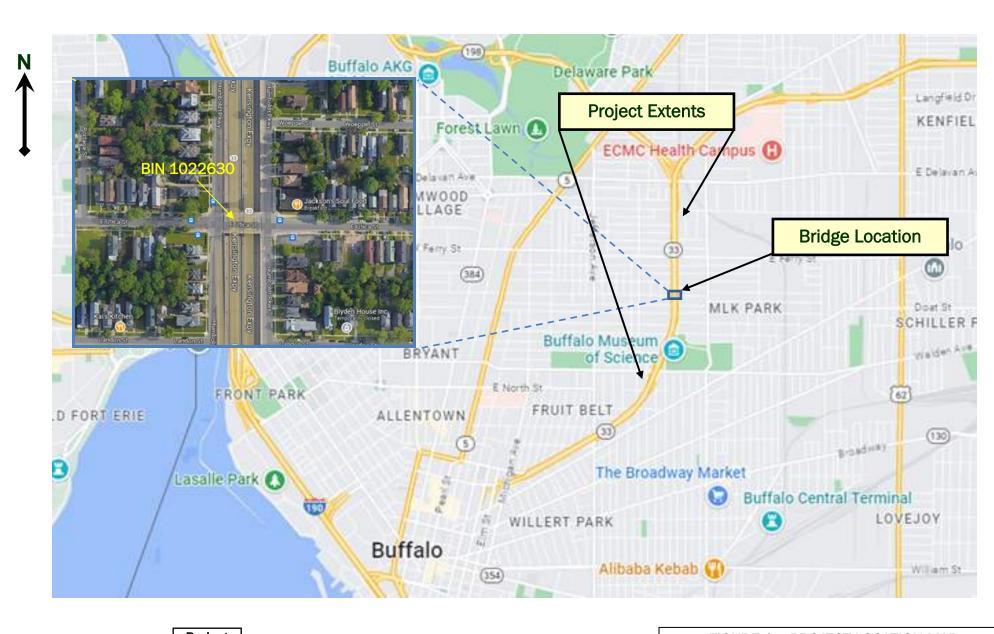


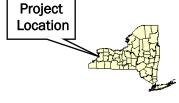
Photo 10 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.



# Appendix B

**Figures** 





Source: Google Maps 2023.

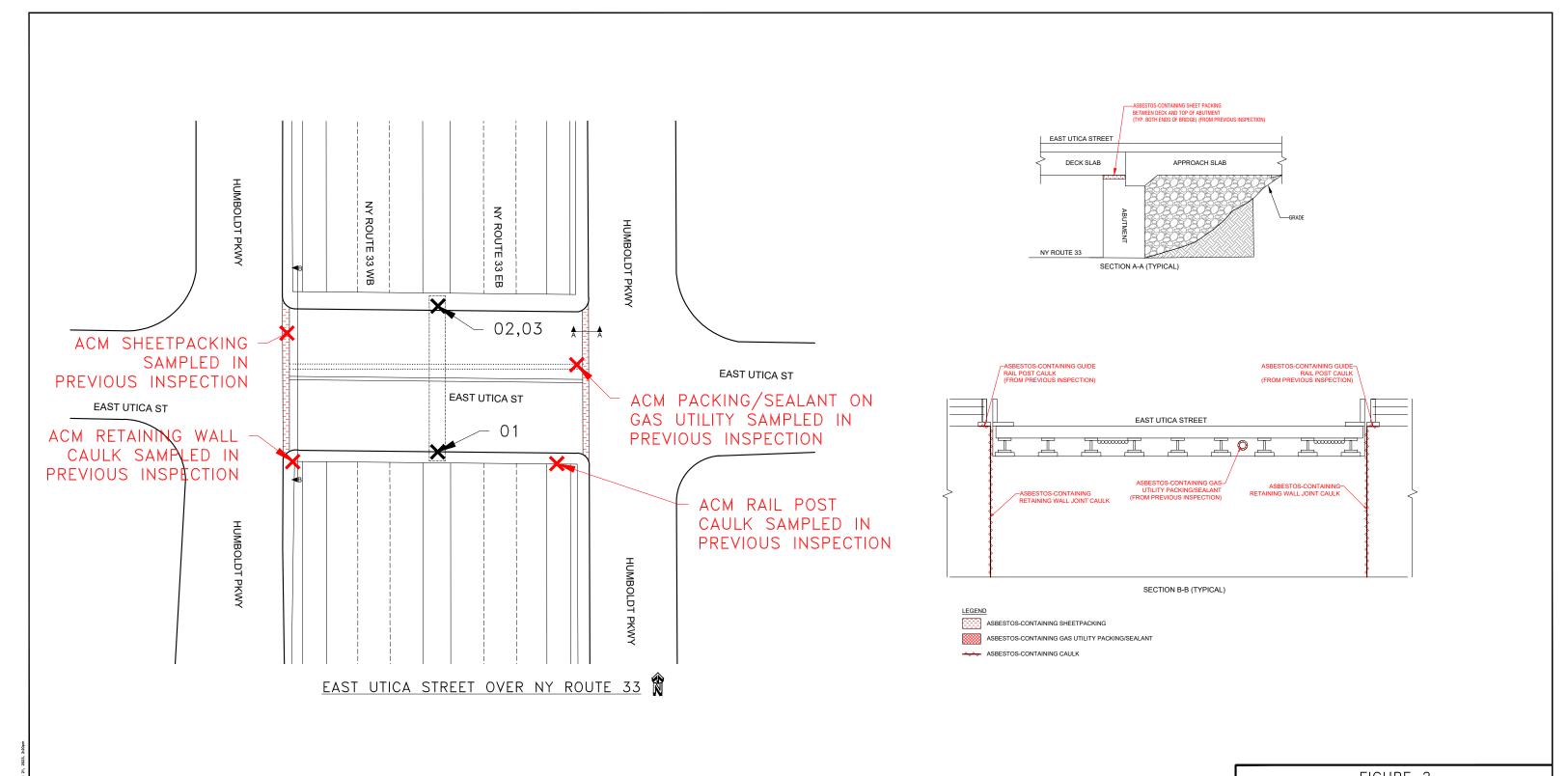


## FIGURE 1 - PROJECT LOCATION MAP

E Utica Street over Kensington Expressway (Rt 33) BIN 1022630 City of Buffalo, Erie County, New York

Not to Scale

June 2023



Watts
Architects
&Engineers

95 Perry Street, Suite 300
Buffalo, New York 14203
(716) 206-5100 | (716) 206-5199 Fax

FIGURE 2
ASBESTOS BULK SAMPLE LOCATIONS
BIN 1022630

EAST UTICA STREET OVER NY ROUTE 33 CITY OF BUFFALO, NEW YORK

NOT TO SCALE JULY 2023

SAMPLES ARE PREFIXED BY 1022630—
SAMPLES WERE COLLECTED ON JUNE 3, 2023.

INDICATES APPROXIMATE SAMPLE LOCATION

SAMPLE NUMBERS IN RED WERE IDENTIFIED TO BE ACM.

# Appendix C

Laboratory
Analytical Report(s)
and
Chain-of-Custody Form(s)



EMSL Order: 142302267 Customer ID: WATT50

Customer PO: Project ID:

Attention: Matthew Holquist Phone: (716) 206-5100

Watts Architecture & Engineering Fax: (716) 206-5199

95 Perry Street Received Date: 05/23/2023 3:36 PM Suite 300 Analysis Date: 05/30/2023 - 05/31/2023

Buffalo, NY 14203 Collected Date: 05/23/2023

Project: 20220255 / PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY / BIN 1022630/East Utica Over Kensington

(Rt. 33)

### Test Report: Asbestos Analysis of Bulk Material

#### Non-Asbestos Analyzed Test Date Color **Fibrous** Non-Fibrous Asbestos Sample ID 1022630-01 Grey Caulk at Pier Barrier Wall Joints Description 142302267-0001 Homogeneous Homogeneity PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed Brown/ Gray **PLM NYS 198.6 NOB** 05/30/2023 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 100.00% Other None Detected Brown/ Gray Sample ID 1022630-02 Description Grey Caulk at Pier Barrier Wall Joints 142302267-0002 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/30/2023 Brown/ Gray 100.00% Other Inconclusive: None Detected 05/31/2023 **TEM NYS 198.4 NOB** Brown/ Gray 100.00% Other None Detected Sample ID 1022630-03 Description Grey Caulk at Pier Barrier Wall Joints 142302267-0003 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/30/2023 Brown/ Gray 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** Brown/ Gray 100.00% Other **None Detected** 05/31/2023

Initial report from: 05/31/2023 15:19:33



EMSL Order: 142302267 Customer ID: WATT50

Customer PO: Project ID:

### Test Report: Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

**Report Comments:** 

Sample Receipt Date: 5/23/2023 Sample Receipt Time: 3:36 PM
Analysis Completed Date: 5/30/2023 Analysis Completed Time: 2:20 PM

Analyst(s):

Tom Hanes PLM NYS 198.6 NOB (3)

Samples reviewed and approved by:

Tom Hanes TEM NYS 198.4 NOB (3)

Rhonda McGee, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 05/31/2023 15:19:33

142302267

## WATTS ARCHITECTS & ENGINEERS SBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

		ASBEST	OS BULK SAMPLE CHAIN-OF-CUS	STODY				
lient:	New York State Department of Transportation / LaBella PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY					Date:	5/23/23	
roject:				Watts Project No		No.:	20220255	
uilding/	Location: BIN 1022	630/East Utica	over Kensington (Rt. 33)					
contact:	Matt Hol	att Holquist at (716) 435-1724		Analysis Requested:		Turnaround Time Requested:		
mail Pre	liminary Results to:		mholquist@watts-ae.com	ELAP 198.1 (Friable PLM)	X	24 Hr.	5 Day	
Mail Report & Invoice to: Watts Archi		itects & Engineers	ELAP 198.6 (NOB PLM)	X	48 Hr.	1 Week	X	
		95 Perry St	reet, Buffalo, NY 14203	ELAP 198.4 (NOB TEM)	X	72 Hr.	2 Weeks	
				Other (Specify)		96 Hr.		

Sample	Matarial Passariation	НМ	County Location	Laborate	Laboratory Results		
Number	Material Description		Sample Location	PLM	TEM		
1022630-01	Grey Caulk at Pier Barrier Wall Joints	1	Center Pier Barrier Wall Joints, South				
1022630-02	Grey Caulk at Pier Barrier Wall Joints	1	Center Pier Barrier Wall Joints, North				
1022630-03	Grey Caulk at Pier Barrier Wall Joints	1	Center Pier Barrier Wall Joints, North				

Sampled By:	Matthew E. Holquist Matthe & Holgary Date: 05/10/23 Time: 17:00	Received By:	Date:
Relinquished By:	Matthew E. Holquist Wattle & Whate: 05/23/23 Time: 15:30	Received By:	Date:
	0		

Comments: Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.

HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

BY: 9m 3

Page: 1 of

# Appendix D

License(s)
And
Certification(s)



New York State - Department of Labor

Division of Safety and Health License and Certificate Unit State Campus, Building 12 Albany, NY 12240

### ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C. Suite 300
95 Perry Street

Buffalo, NY 14203

FILE NUMBER: 12-68007 LICENSE NUMBER: 68007 LICENSE CLASS: RESTRICTED DATE OF ISSUE: 09/01/2022 EXPIRATION DATE: 09/30/2023

Duly Authorized Representative - Kevin Janik

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

SH 432 (8/12)

Amy Phillips, Director For the Commissioner of Labor



# STATE OF NEW YORK - DEPARTMENT OF LABOR ASBESTOS CERTIFICATE





MATTHEW E HOLQUIST CLASS(EXPIRES) D INSP(02/24) | PD (02/24)

> CERT# 01-08239 DMV# 346423686

MUST BE CARRIED ON ASBESTOS PROJECTS



01213 006771388 34

EYES BLU
HAIR BLN
HGT 5' 11"

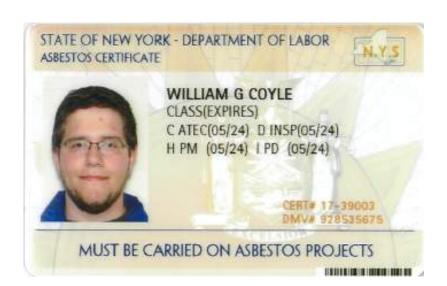
IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

## **Matthew E. Holquist**

D - Inspector

I - Project Designer







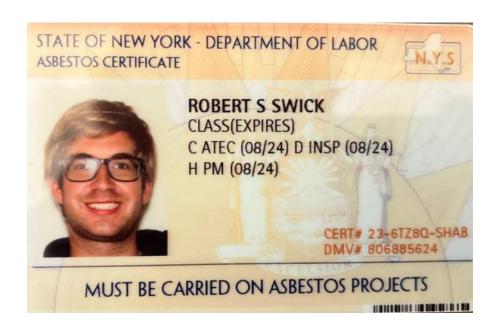
01213 006775315 25

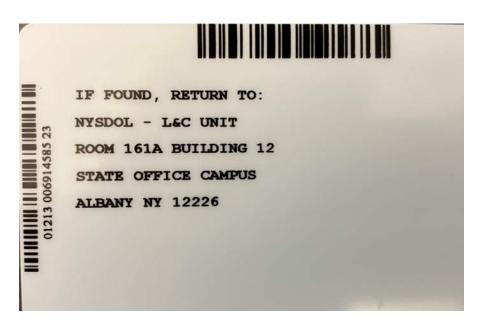
EYES BRO HAIR BRO HGT 6' 00" IF FOUND RETURN TO: NYSDOL - L&C UNIT ROOM 161A BUILDING 12 STATE OFFICE CAMPUS ALBANY NY 12240

## William Coyle

- C Air Sampling Technician
- D Inspector
- H Project Monitor
- I Project Designer







## **Robert Swick**

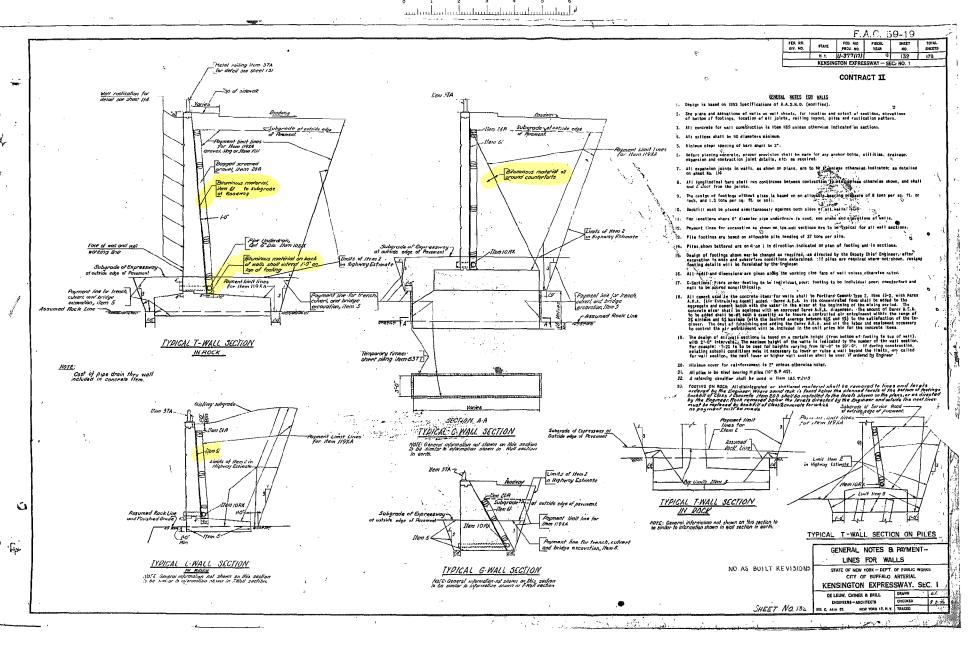
C - Air Sampling Technician

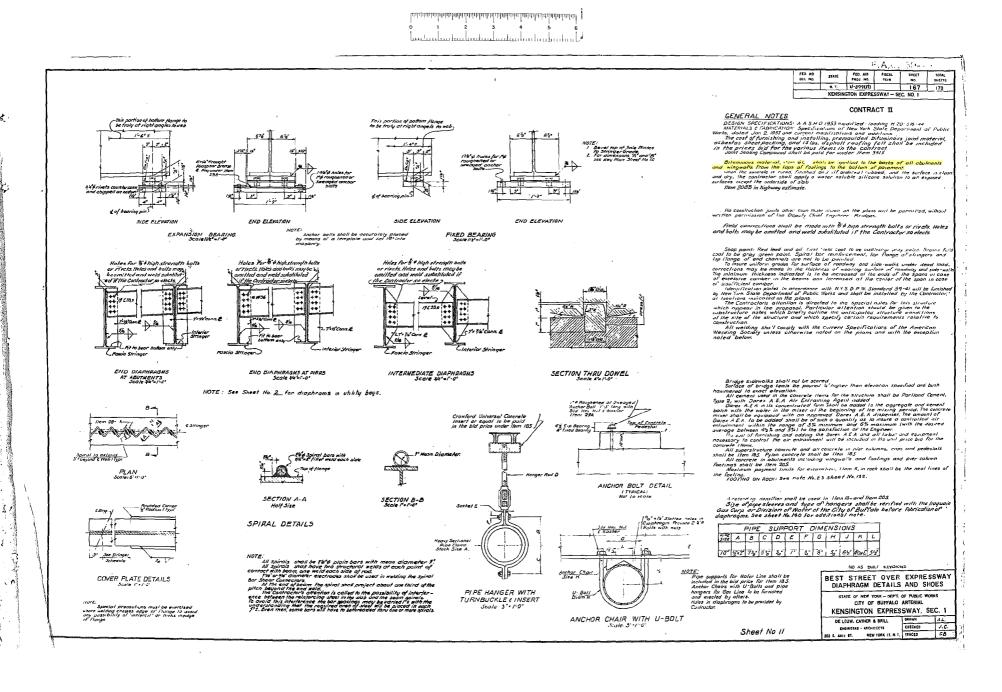
D - Inspector

H - Project Monitor

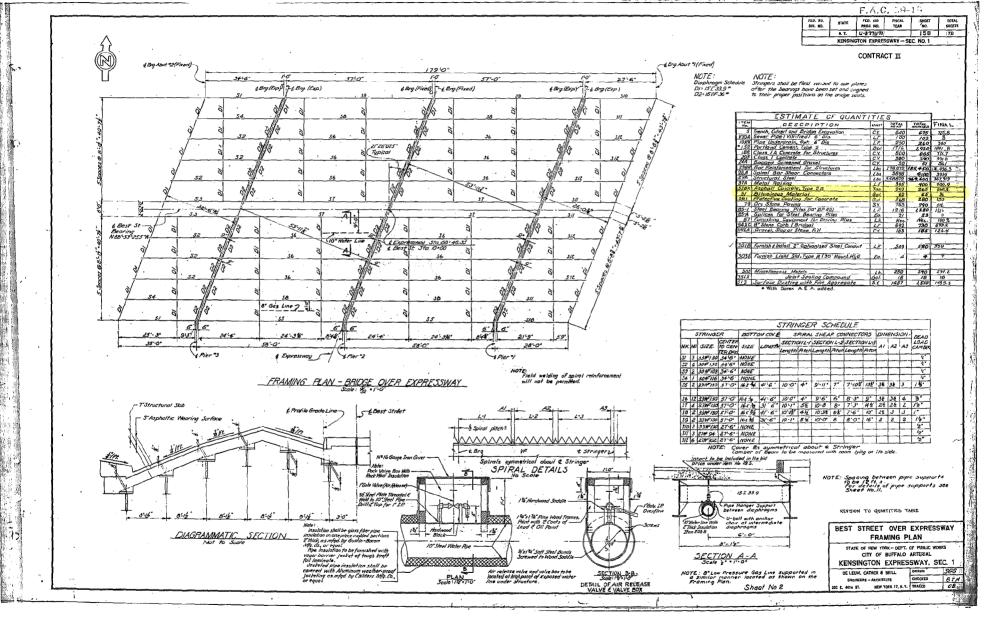
# Appendix E

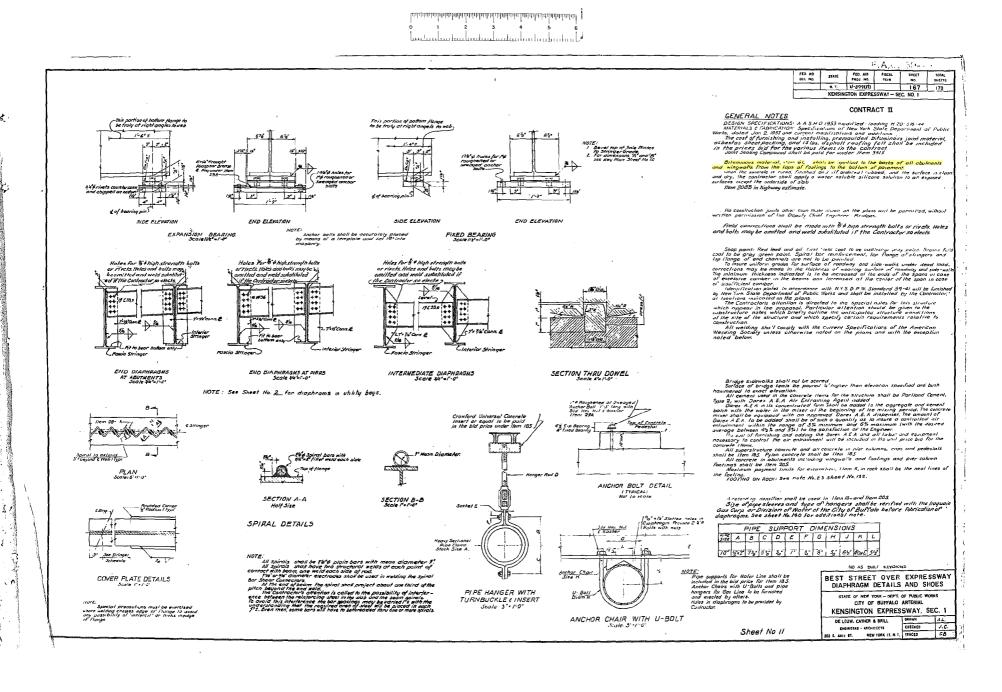
Previous ACM Report(s)
and
Asbestos-Related
Record Plan and
Project Information

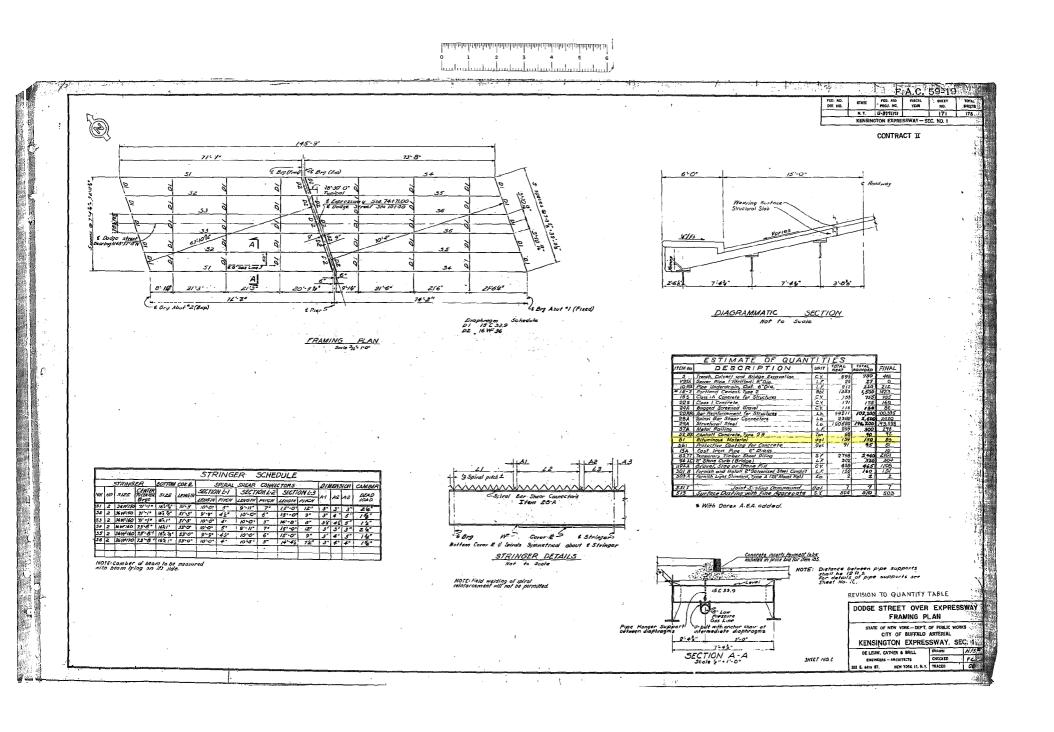


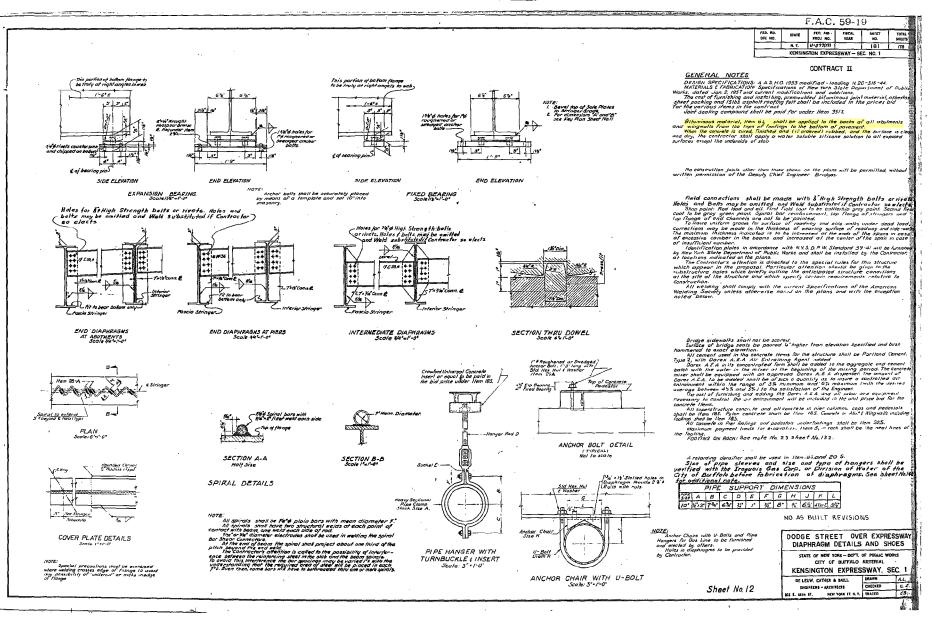


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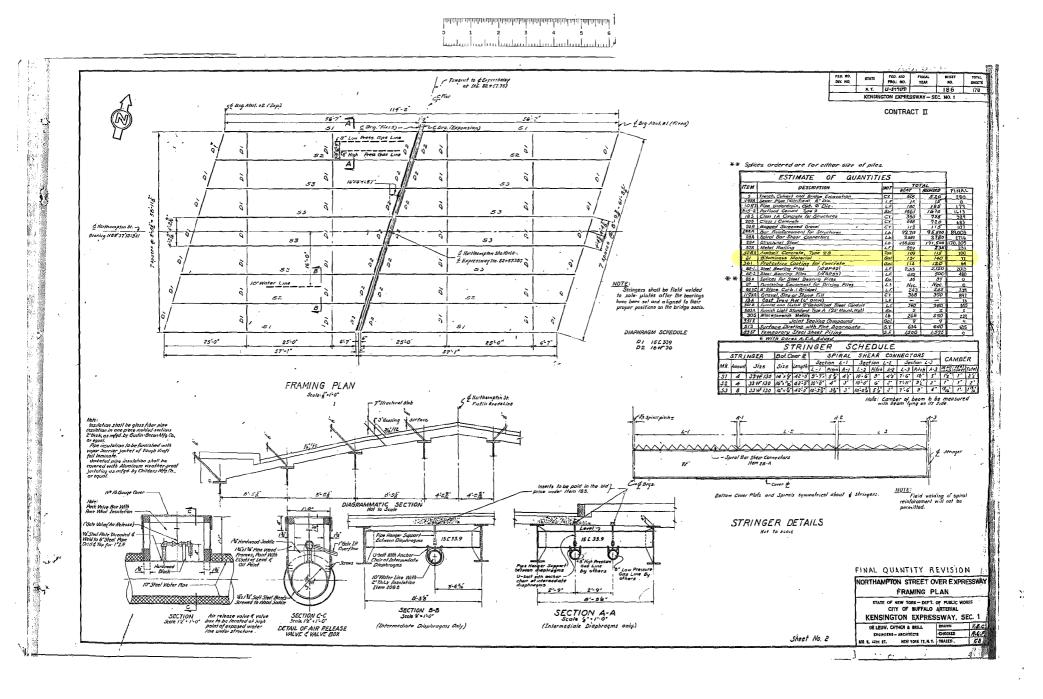








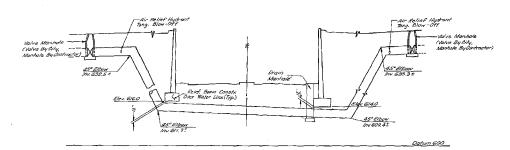
خليك



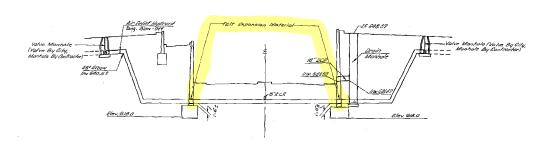
A correct or exercise to detect and a trade advantage dentage and a second a second and a second a second and 
Dotum 600

FED. RD.	FEDERAL AID	SHEET	TOTAL
REG. NO. STATE	PROJECT NO.	NO.	SHEETS
NEW YOR		70	223

CITY OF BUFFALO
KENSINGTON EXPRESSWAY ARTERIAL SECTION II NORTHAMPTON ST. TO NORTHLAND AVE. ERIE COUNTY



RELOCATED 36" WATER LINE
E UTICA ST.
STA. 96+50 &
SCALE-HOR! 7-80!
VERT: 1510



RELOCATED IS" WATER LINE
LANDON ST
STA 92+48.6
SCALE- VIRTLE O

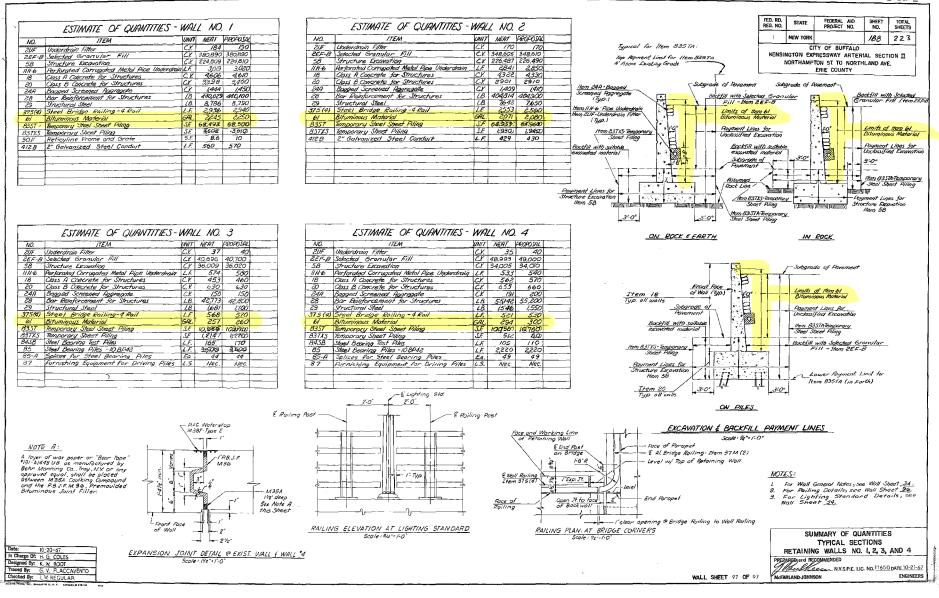
VERTICA L 10 0 10 20 HORIZONTAL 20 0 20 40

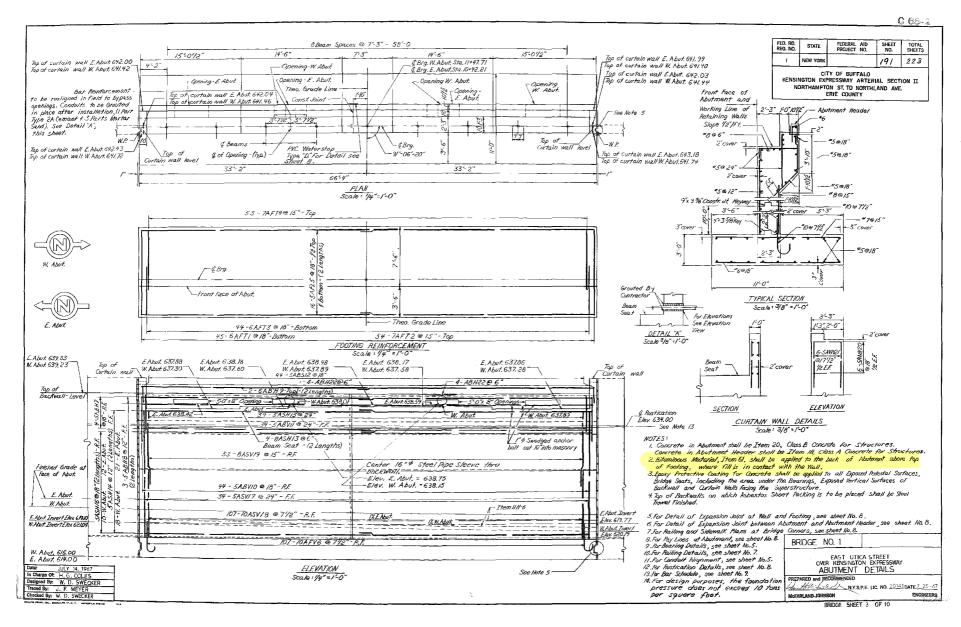
RELOCATED WATER PREPARED and RECOMMENDED

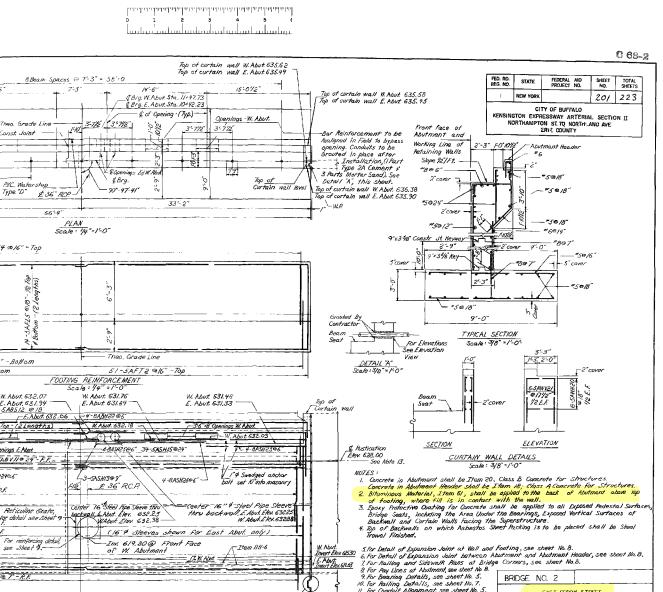
STEEL N.Y.S.P.E. LIC. NO. 11650. DATE 10. 18-62.

MCFARLAND JOHNSON ENGINEERS, INC.

Date: Oct 20, 1967
In Charge Of: U.J. Margos
Designed By: S. Soons
Traced By: M. Dabsch hecked By: 5, Saenz







MEFARI AND JOHNSON

BRIDGE SHEET 3 OF 10

ENGINEERS

Curtain wall level 30-5AFT4 @16"-Top - Front Face of Abut E. Abut 44 - SAF73 9 18" - BoHom 45-5AFT/@ 18" Bottom W. Abut. 633.47 W.Abut 631.47 W. Abut. 632.07 E. Abut. 633,28 Curtain wall E. Abut. 631.35 E. Abut. 631.94 44-5A8512 @18 E. Abut. 631.64 Top of Backwall-Level Top (2 Lengths) 3'-6" × 8" Openings E. Abut. 34 - SABVII @ 24"- F.F. SASHIN @ 12" - (2 Lengths) ~ 4-8ASH24®6" Y-BACH2ROK" Finished Grade at 57-6ASV/9@14" -R.F. 3-5AB#8 E. Abut recriculine Grate, for detail see Sheet 44 - 5A8VIO @ 18" - R.F. W. Abut 34-5ASV17 @24" - F.F. E. Abut. Invert Elev. 6/5.29 see Sheet 9 .--115 -8ASV18 @ 7" - R.F. W.Abut. Invert Elev. 614.64 ! For Hailing and Solewark rains of Diff 8 For Pay Lines at Abutment, see sheet No. 5. 9. For Beazing Details, see sheet No. 7. 11. For Conduit Allynment, see sheet No. 5. 115-8AFV6@7"-R.F. E. Ab<u>ut. 611.00</u> W. Abut. 611.00 EAST FERRY STREET 12. For Rustication Details, see sheet No. 8. OVER KENSINGTON EXPRESSWAY **ELEVATION** 13. For Bar Schedule, see sheet No. 9. 14. For design purposes, the Foundation Pressure does not exceed 10 tons JULY 14 196 ABUTMENT DETAILS See Note 5 In Charge Of: H. G. COLES Scala: 1/4"=1'-0" PREPARED and RECOMMENDED Designed By: W. D. SWECKER Traced By: J. F. MEYER 1 7 - 1 - 1 NYSPE LIC. NO. 20143 DATE 7-25-6 per square foot

15:01/2

Top of

Openings-E. Abut.

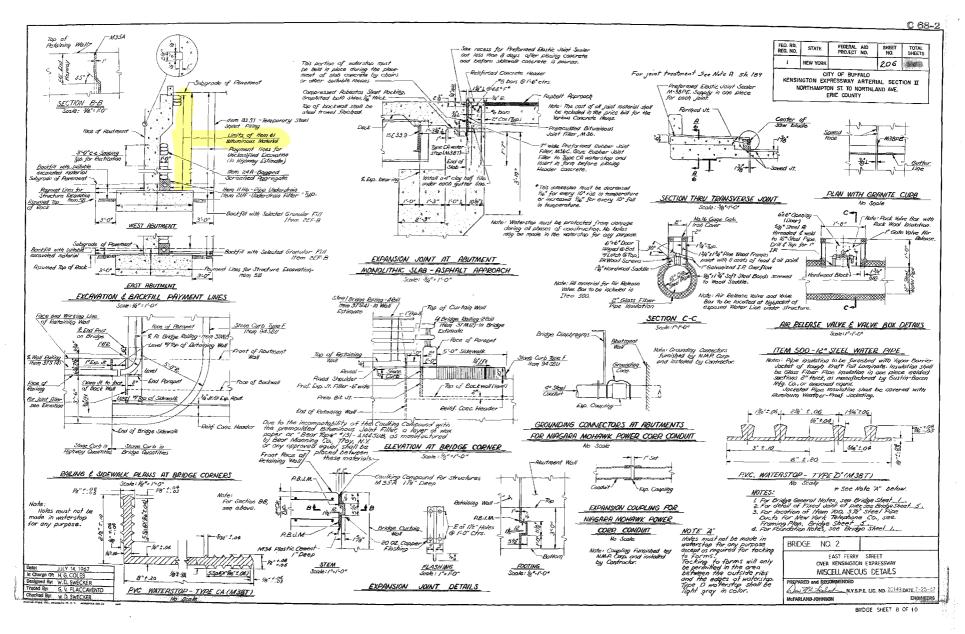
Top of curtain wall W. Abut. 635.59

Top of curtain wall E. Abut. 635.47

Top of curtain wall W. Abut. 635.63. Top of curtain wall E. Abut. 635.57

Top of curtain wall W. Abut. 636.29. Top of curtain wall E. Abut. 636.12

Checked By: W. D. SWECKER





## **Asbestos-Containing Materials Inspection**

Location:

BIN 1022630
East Utica Street Bridge
Over Kensington Expressway (NY Route 33)
City of Buffalo,
Erie County, New York

Prepared for:
New York State
Department of Transportation

PIN - 5813.75.121

LaBella Project No. 2190777

April 29, 2022

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Appe	endix A – Asbestos Inspection Fact Sheet	FS-1
Appe	endix B – Figures	
Appe	endix C – Laboratory Analytical Report	
Appe	endix D – Licenses and Certifications	
Appe	endix E – Photos	

## I. INTRODUCTION

In accordance with conditions of Term Agreement D037815, Watts Architecture & Engineering (Watts), in conjunction with LaBella Associates, D.P.C. (LaBella), conducted an Asbestos-Containing Materials (ACM) Inspection of the E. Utica St. Bridge over Kensington Expressway (NY Route 33) (BIN 1022630) located in the City of Buffalo, Erie County, New York. The objective of the bridge inspection was to identify and sample suspect ACMs which may require abatement or removal prior to or during renovation of the structure, due to applicable regulations. The inspection was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. The following information summarizes the results of the investigation.

## II. INSPECTION RESULTS

## BIN 1022630 – E. Utica St. Bridge over Kensington Expressway (NY Route 33)

### Confirmed Asbestos-Containing Materials (ACMs)

Based on laboratory analyses of bulk samples collected, the following materials were determined to contain greater than 1% asbestos. The following table does not include all of the materials sampled during this inspection. For a full list of materials sampled, please refer to the Asbestos Bulk Sample Summary Table.

Type of					NYSDOT Specification
Material	Typical Location	Estimated Amount	Friability	Condition	Item No.
Retaining Wall Grey Caulk	Within Vertical Retaining Wall Joints (One at Each Corner of the Bridge)	80 LF (14 SF)	Non-Friable	Fair to Good	210.3411
Rail Post Grey Caulk	Base of Guard Rail Post on Top of Retaining Walls	3.66 LF (0.3 SF)	Non-Friable	Good	210.3411
Grey Sheet Packing	Between Deck & Tops of Abutments at Both Ends of Bridge	140 SF	Non-Friable	Good	210.3312
Utility Conduit Packing / Sealant	Perimeter of the 12" Natural Gas Utility Casing (8" Gas Utility Within the Casing) that Penetrates Through Each Abutment	6 LF (~1 SF)	Non-Friable	Poor to Fair	210.481101

#### **ACM Project Specific Details**

#### **Retaining Wall Grey Caulk**

A grey asbestos-containing caulking compound is located within the vertical joints of the retaining walls along both sides of the Kensington Expressway (Route 33) corridor. Although the material is not present within each joint, the material is located sporadically throughout the entire existing length (>1 mile) of the retaining walls.

During our inspection, a bead of asbestos-containing caulk was observed within close proximity (within a few feet) at each corner of the bridge. Each bead is approximately 2" thick and approximately 20 linear feet long. At each location, the ACM is located within the vertical joint that extends from the Kensington Expressway (Route 33) roadway surface up the entire retaining wall (approximately 18' high), and also extends along the horizontal surface (approximately 1.5') on top of the retaining wall. The top of the retaining wall is located at the E. Utica Street surface level and extends along the entire length of Humboldt Parkway.

While the amount of ACM associated with the entire retaining wall is significantly higher, it is estimated that the total amount of grey caulking compound associated with this structure is approximately 80 linear feet (14 square feet for NYSDOL reporting purposes). This quantity represents the four vertical joints located within close proximity to the bridge. The ACM was generally observed to be intact in most locations, however, some areas were observed where the asbestos-containing caulk was no longer intact within the vertical joint. The approximate locations of this material adjacent to the bridge are shown in FIGURE 2.

#### Rail Post Grey Caulk

Grey asbestos-containing caulking compound is located around the perimeter of the guide rail base plates along both sides of the retaining walls that were described above. Each rectangular base plate is approximately 8" x 14" and has an approximate 1" thick bead of caulk around the perimeter. It is important to note that the base plates associated with the guide rails and fencing posts located on the bridge curb/knee wall along E. Utica Street are of a different construction and do not have any associated ACMs. There is one guide rail base plate with asbestos-containing caulk present within a very close proximity to the bridge (within a few feet) at each corner of the bridge. While the amount of ACM associated with the entire retaining wall is significantly higher, it is estimated that the amount of grey caulking compound associated with the four total base plates is approximately 3.66 linear feet (0.3 square feet for NYSDOL reporting purposes). The ACM was generally observed to be intact in most locations. The approximate locations of this material are shown in FIGURE 2.

#### **Grey Sheet Packing**

Grey asbestos-containing sheet packing is located between the top of the abutments and the deck slab at both ends of the bridge. Most of the material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations. It is estimated that the total amount of gray sheet packing on the bridge is approximately 140 square feet (approximately 70 square feet per abutment). The approximate locations of this material are shown in FIGURE 2.

#### Utility Conduit Packing / Sealant

An asbestos-containing packing/sealant was identified at each abutment penetration of the 12" utility conduit that contains an 8" gas line. The approximately 2.5" thick bead of packing/sealant is located around the perimeter of the conduit. The ACM was observed to be generally intact at the eastern abutment, however, at the western abutment, approximately half of the ACM was observed to be dislodged and laying on top of the abutment shelf. It is estimated that the total amount of asbestos-containing packing/sealant associated with the two abutment penetrations is approximately 6 linear feet (1.25 square feet for NYSDOL reporting purposes). The approximate locations of this material are shown in FIGURE 2.

#### **Inaccessible Assumed ACMs**

During the inspection, no inaccessible assumed ACM was identified.

#### III. INSPECTION PROCEDURES

The following procedures were used to obtain the data for this report:

- A. Review of information available via NYSDOT's Bridge Data Information System (BDIS) and Record Plans made available by New York State Department of Transportation, Region 5.
- B. A visual inspection of the structure was performed to identify visible and accessible sources of the above referenced suspect ACMs. Observations and notes were made to provide a description of the structure, and estimate the approximate amount, length, or area of suspect ACM, if present. Photographs taken during this inspection are attached in Appendix E.
- C. Bulk samples of suspect ACMs were collected during the site inspection of the subject structure. In accordance with the NYSDOT Environmental Manual (TEM), three samples were taken of each homogeneous material that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below.
- D. Asbestos samples were submitted for laboratory analysis. Preliminary Polarized Light Microscopy analyses of non-friable, organically bound (NOB) materials were performed by EMSL Laboratories, a NYSDOH accredited laboratory, to determine the presence and percentage of asbestos in each sample. Transmission electron microscopy analyses of NOB materials, if necessary, were also performed by EMSL Laboratories.
- E. Results of the laboratory analyses, field testing and the visual on-site inspection were compiled and summarized.

#### IV. INSPECTION LIMITATIONS

This inspection was conducted in accordance with generally accepted environmental engineering practices for this region. Collection of bulk samples of suspect ACMs was limited to those materials readily accessible using hand tools or hand-held power tools. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. Homogeneous materials were identified and located based on visual observation from readily accessible points. The data derived from representative samples of any given homogeneous

material represent conditions that apply only at that particular location. Inspection protocol and methodology requires that sample data be used to draw conclusions about the entire homogeneous area, but such conclusions may not necessarily apply to the general structure as a whole.

No sub-surface investigation was performed by LaBella or Watts to determine the possible presence of suspect ACMs or underground utilities in the immediate vicinity of the structure as all surrounding areas are covered with a concrete and/or asphalt surface.

Applicable utility companies were contacted to request information regarding the presence of any known ACMs associated with their utilities located at the bridge. No additional ACM information was obtained.

LaBella makes no other warranty or representation, either expressed or implied, nor is one intended to be included as part of its services, or reports. No asbestos inspection can wholly eliminate the uncertainty regarding the potential for undiscovered ACMs. The work performed by Watts and LaBella is intended to reduce, but not eliminate, uncertainty regarding the potential for ACMs at the site.

This asbestos inspection report is not intended to be a bid document for an abatement scope of work. This report is intended to satisfy the requirements of NYS Code Rule 56-5 for asbestos inspections.

#### V. CONCLUSIONS AND RECOMMENDATIONS

Although asbestos-containing materials are located on the bridge, it is unknown whether the upcoming bridge rehabilitation project will impact these materials. As such, if any identified ACM is to be impacted for any reason, disturbance must be considered an asbestos project and completed by a licensed asbestos contractor in accordance with all applicable regulations. Furthermore, if the ACMs are to be impacted by the upcoming project, the final Project Proposal should include the following:

- 1. Specification Item Nos. and quantities of ACMs as listed in this report
- 2. Special Asbestos Removal Notes, if necessary
- 3. A notation that this Asbestos Survey Report is available to bidders

Under the provisions of our Asbestos Assessment Term Agreement, LaBella Associates is available to review the final asbestos portion of the design package and assist Region 5 personnel in developing Special Notes, if necessary.

None of the paints associated with this bridge were tested in an effort to identify lead-based paint. It is recommended that the potential presence of the lead associated with the bridge paints be conveyed to any contractor or DOT employee prior to any work related activities that may disturb this material.

BIN 1022630 – East Utica Street Bridge Over Kensington Expressway (NY Route 33) City of Buffalo, Erie County, New York P.I.N. 5813.75.121

#### Items in Bold are Confirmed ACM

Sample #Type of MaterialSample LocationAsbestos1022630-01Retaining Wall Grey CaulkNE Retaining Wall Vertical Joint6.2% Chrysotile1022630-02Retaining Wall Grey CaulkNW Retaining Wall Vertical JointPositive Stop (Not Analyzed)1022630-03Retaining Wall Grey CaulkSW Retaining Wall Vertical JointPositive Stop (Not Analyzed)1022630-04Rail Post Grey CaulkTop of Retaining Wall, NE Corner7.1% Chrysotile1022630-05Rail Post Grey CaulkTop of Retaining Wall, NW CornerPositive Stop (Not Analyzed)1022630-06Rail Post Grey CaulkTop of Retaining Wall, SW CornerPositive Stop (Not Analyzed)1022630-07Curb/Knee Wall Grey CaulkNorth Side of Bridge, East EndNone Detected1022630-08Curb/Knee Wall Grey CaulkNorth Side of Bridge, West EndNone Detected1022630-09Curb/Knee Wall Grey CaulkSouth Side of Bridge, West EndNone Detected1022630-10Abutment/Retaining Wall Joint FillerNW CornerNone Detected1022630-12Abutment/Retaining Wall Joint FillerNW CornerNone Detected1022630-13Sidewalk/Back of Retaining Wall Joint FillerNW SidewalkNone Detected				<b>5</b> 11 07
1022630-01 Retaining Wall Grey Caulk Vertical Joint Positive Stop (Not Analyzed)  1022630-02 Retaining Wall Grey Caulk Vertical Joint Positive Stop (Not Analyzed)  1022630-03 Retaining Wall Grey Caulk SW Retaining Wall Vertical Joint Positive Stop (Not Analyzed)  1022630-04 Rail Post Grey Caulk Top of Retaining Wall, NE Corner Top of Retaining Wall, SW Corner (Not Analyzed)  1022630-06 Rail Post Grey Caulk Top of Retaining Wall, SW Corner (Not Analyzed)  1022630-07 Curb/Knee Wall Grey Caulk North Side of Bridge, East End None Detected West End None Detected West End None Detected  1022630-09 Curb/Knee Wall Grey Caulk South Side of Bridge, West End None Detected West End None Detected  1022630-10 Abutment/Retaining Wall Joint Filler NW Corner None Detected  1022630-11 Abutment/Retaining Wall Joint Filler NW Corner None Detected  1022630-13 Sidewalk/Back of Retaining Wall Joint Filler NW Sidewalk None Detected	Cample #	Type of Material	Sample Leastion	Results %
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1022630-02   Retaining Wall Grey Caulk   SW Retaining Wall   Positive Stop (Not Analyzed)	1022630-01	Retaining Wall Grey Caulk	•	6.2% Chrysotile
1022630-03 Retaining Wall Grey Caulk  1022630-04 Rail Post Grey Caulk  1022630-05 Rail Post Grey Caulk  1022630-06 Rail Post Grey Caulk  1022630-07 Curb/Knee Wall Grey Caulk  1022630-08 Curb/Knee Wall Grey Caulk  1022630-09 Caulk  1022630-09 Curb/Knee Wall Grey Caulk  1022630-10 Abutment/Retaining Wall Joint Filler  1022630-12 Sidewalk/Back of Retaining Wall Joint Filler  1022630-13 Sidewalk/Back of Retaining Wall Joint Filler  NW Corner  SW Retaining Wall Positive Stop (Not Analyzed)  Top of Retaining Wall, Positive Stop (Not Analyzed)  Top of Retaining Wall, Positive Stop (Not Analyzed)  Top of Retaining Wall, Positive Stop (Not Analyzed)  North Side of Bridge, East End  None Detected	1000630.00	Dataining Wall Croy Caulk	NW Retaining Wall	Positive Stop
1022630-03 Retaining Wall Grey Caulk Vertical Joint (Not Analyzed)  1022630-04 Rail Post Grey Caulk Top of Retaining Wall, NE Corner 7.1% Chrysotile  1022630-05 Rail Post Grey Caulk Top of Retaining Wall, NW Corner (Not Analyzed)  1022630-06 Rail Post Grey Caulk Top of Retaining Wall, SW Corner (Not Analyzed)  1022630-07 Curb/Knee Wall Grey Caulk SW Corner None Detected  1022630-08 Curb/Knee Wall Grey Caulk West End None Detected  1022630-09 Curb/Knee Wall Grey Caulk West End None Detected  1022630-10 Abutment/Retaining Wall Joint Filler NW Corner None Detected  1022630-12 Abutment/Retaining Wall Joint Filler NW Corner None Detected  1022630-13 Sidewalk/Back of Retaining Wall Joint Filler NW Sidewalk None Detected	1022630-02	Retaining wall Grey Caulk	Vertical Joint	(Not Analyzed)
1022630-03 Retaining Wall Grey Caulk Vertical Joint (Not Analyzed)  1022630-04 Rail Post Grey Caulk Top of Retaining Wall, NE Corner 7.1% Chrysotile  1022630-05 Rail Post Grey Caulk Top of Retaining Wall, NW Corner (Not Analyzed)  1022630-06 Rail Post Grey Caulk Top of Retaining Wall, SW Corner (Not Analyzed)  1022630-07 Curb/Knee Wall Grey Caulk SW Corner (Not Analyzed)  1022630-08 Curb/Knee Wall Grey Caulk West End None Detected  1022630-09 Curb/Knee Wall Grey Caulk West End None Detected  1022630-10 Abutment/Retaining Wall Joint Filler NW Corner None Detected  1022630-12 Abutment/Retaining Wall Joint Filler NW Corner None Detected  1022630-13 Sidewalk/Back of Retaining Wall Joint Filler NW Sidewalk None Detected	400000		SW Retaining Wall	Positive Stop
1022630-05 Rail Post Grey Caulk Top of Retaining Wall, NW Corner  1022630-06 Rail Post Grey Caulk Top of Retaining Wall, NW Corner  Top of Retaining Wall, SW Corner  North Side of Bridge, East End  None Detected  None Detected  Top of Retaining Wall, SW Corner  None Detected	1022630-03	Retaining Wall Grey Caulk	_	-
1022630-05 Rail Post Grey Caulk Top of Retaining Wall, NW Corner (Not Analyzed)  1022630-06 Rail Post Grey Caulk Top of Retaining Wall, SW Corner (Not Analyzed)  1022630-07 Curb/Knee Wall Grey Caulk East End None Detected  1022630-08 Curb/Knee Wall Grey Caulk West End None Detected  1022630-09 Curb/Knee Wall Grey Caulk North Side of Bridge, West End None Detected  1022630-10 Abutment/Retaining Wall Joint Filler NW Corner None Detected  1022630-11 Abutment/Retaining Wall Joint Filler NW Corner None Detected  1022630-12 Abutment/Retaining Wall Joint Filler NW Corner None Detected  1022630-13 Sidewalk/Back of Retaining Wall Joint Filler NW Sidewalk None Detected	1022630-04	Rail Post Grey Caulk	-	7.1% Chrysotile
1022630-06 Rail Post Grey Caulk Top of Retaining Wall, SW Corner (Not Analyzed)  1022630-07 Curb/Knee Wall Grey Caulk Caulk North Side of Bridge, East End None Detected  1022630-08 Curb/Knee Wall Grey Caulk Caulk North Side of Bridge, West End None Detected  1022630-09 Curb/Knee Wall Grey Caulk None Detected  1022630-10 Abutment/Retaining Wall Joint Filler  1022630-11 Abutment/Retaining Wall Joint Filler NW Corner None Detected  None Detected None Detected None Detected None Detected None Detected None Detected None Detected None Detected None Detected None Detected None Detected None Detected None Detected None Detected None Detected		•	NE Corner	
1022630-06 Rail Post Grey Caulk  Top of Retaining Wall, SW Corner  Curb/Knee Wall Grey Caulk  1022630-07 Curb/Knee Wall Grey Caulk  1022630-08 Curb/Knee Wall Grey Caulk  1022630-09 Curb/Knee Wall Grey Caulk  1022630-10 Abutment/Retaining Wall Joint Filler  1022630-11 Abutment/Retaining Wall Joint Filler  1022630-12 Abutment/Retaining Wall Joint Filler  NW Corner  None Detected	1022630-05	Rail Post Grey Caulk		-
1022630-06 Rail Post Grey Caulk  SW Corner (Not Analyzed)  1022630-07 Curb/Knee Wall Grey Caulk  1022630-08 Curb/Knee Wall Grey Caulk  1022630-09 Curb/Knee Wall Grey Caulk  1022630-10 Abutment/Retaining Wall Joint Filler  1022630-11 Abutment/Retaining Wall Joint Filler  1022630-12 Sidewalk/Back of Retaining Wall Joint Filler  None Detected				
Caulk East End None Detected  1022630-08 Curb/Knee Wall Grey Caulk West End None Detected  1022630-09 Curb/Knee Wall Grey Caulk South Side of Bridge, West End None Detected  1022630-10 Abutment/Retaining Wall Joint Filler NW Corner None Detected  1022630-11 Abutment/Retaining Wall Joint Filler NW Corner None Detected  1022630-12 Abutment/Retaining Wall Joint Filler NW Corner None Detected  1022630-13 Sidewalk/Back of Retaining Wall Joint Filler NW Sidewalk None Detected  1022630-13 Sidewalk/Back of Retaining Wall Joint Filler NW Sidewalk None Detected	1022630-06	Rail Post Grey Caulk		-
Caulk East End  1022630-08	100000007	Curb/Knee Wall Grey	North Side of Bridge,	N 5
Caulk  West End  None Detected  Curb/Knee Wall Grey Caulk  South Side of Bridge, West End  None Detected	1022630-07	Caulk	East End	None Detected
Caulk  West End  None Detected  Curb/Knee Wall Grey Caulk  South Side of Bridge, West End  None Detected	4000000000	Curb/Knee Wall Grey	North Side of Bridge,	New Balantal
Caulk  West End  None Detected	1022630-08	•		None Detected
Caulk  West End  None Detected	1000000000	Curb/Knee Wall Grey	South Side of Bridge,	
1022630-10  Joint Filler  Abutment/Retaining Wall Joint Filler  NW Corner  None Detected  NW Corner  None Detected  None Detected  None Detected  None Detected  None Detected  None Detected  NW Corner  None Detected  None Detected  NW Corner  None Detected  None Detected  None Detected  None Detected  None Detected	1022630-09	•	_	None Detected
1022630-10  Joint Filler  Abutment/Retaining Wall Joint Filler  NW Corner  None Detected  NW Corner  None Detected  NW Corner  None Detected  None Detected  NW Corner  None Detected		Abutment/Retaining Wall		
1022630-11  Joint Filler  NW Corner  None Detected  NW Corner  None Detected  NW Corner  None Detected  None Detected  NW Corner  None Detected  None Detected  None Detected  None Detected  NW Sidewalk / Back of Retaining Wall Joint Filler  Sidewalk / Back of	1022630-10	,	NW Corner	None Detected
1022630-11  Joint Filler  Abutment/Retaining Wall Joint Filler  NW Corner  None Detected  NW Corner  None Detected  Sidewalk/Back of Retaining Wall Joint Filler  Sidewalk/Back of		Abutment/Retaining Wall		
Joint Filler  None Detected	1022630-11		NW Corner	None Detected
Joint Filler  None Detected		Abutment/Retaining Wall		
Retaining Wall Joint Filler NW Sidewalk None Detected  Sidewalk/Back of	1022630-12	,	NW Corner	None Detected
Retaining Wall Joint Filler NW Sidewalk None Detected  Sidewalk/Back of		Sidewalk/Back of		
Sidewalk/Back of	1022630-13	·	NW Sidewalk	None Detected
ADDOCOD AA   CIRCUITATIY EAGITOT   KILL OLL OLL OLL OLL OLL OLL OLL OLL OLL	400000044	Sidewalk/Back of	NIM OLL - II	Nama Datastad
1022630-14 Retaining Wall Joint Filler NW Sidewalk None Detected	1022630-14	·	NW Sidewalk	None Detected
Sidewalk/Back of NW Sidewalk	4000000 45	Sidewalk/Back of	NIM Cidemelle	Nana Data ata d
1022630-15 Retaining Wall Joint Filler NW Sidewalk None Detected	1022030-15	Retaining Wall Joint Filler	inm pidemaik	мопе ретестеа

BIN 1022630 – East Utica Street Bridge Over Kensington Expressway (NY Route 33) City of Buffalo, Erie County, New York P.I.N. 5813.75.121

#### Items in Bold are Confirmed ACM

Sample #	Type of Material	Sample Location	Results % Asbestos
1022630-16	Bituminous Tar	NE Sidewalk	None Detected
1022630-17	Bituminous Tar	NW Sidewalk	None Detected
1022630-18	Bituminous Tar	SE Sidewalk	None Detected
1022630-19	Grey Bridge/Girder Paint	North Girder, West End	None Detected
1022630-20	Grey Bridge/Girder Paint	South Girder, West End	None Detected
1022630-21	Grey Bridge/Girder Paint	Middle Girder, East End	None Detected
1022630-22	Bearing Pad	North Girder, West End	None Detected
1022630-23	Bearing Pad	South Girder, West End	None Detected
1022630-24	Bearing Pad	North Girder, East End	None Detected
1022630-25	Masonry Coating	Middle Girder, East End	None Detected
1022630-26	Masonry Coating	Middle Girder, East End	None Detected
1022630-27	Masonry Coating	South Girder, West End	None Detected
1022630-28	Sheet Packing	Top of Abutment, SE Corner	30% Chrysotile
1022630-29	Sheet Packing	Top of Abutment, SE Corner	Positive Stop (Not Analyzed)
1022630-30	Sheet Packing	Top of Abutment, SW Corner	Positive Stop (Not Analyzed)

BIN 1022630 – East Utica Street Bridge Over Kensington Expressway (NY Route 33) City of Buffalo, Erie County, New York P.I.N. 5813.75.121

#### Items in Bold are Confirmed ACM

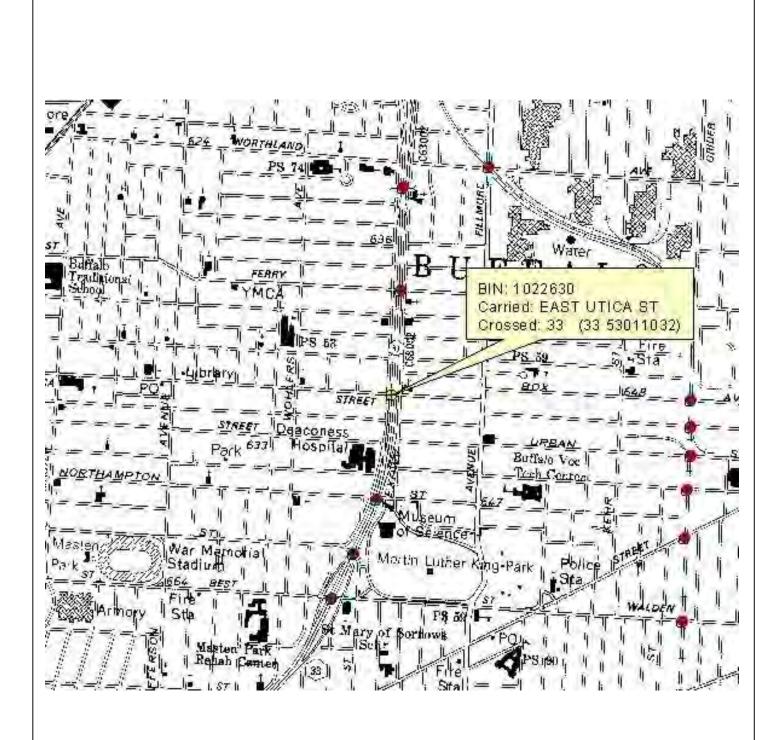
Sample #	Type of Material	Sample Location	Results % Asbestos
1022630-31	Utility Conduit Packing/Sealant	Large Utility Pipe, East End at Abutment	6.8% Chrysotile
1022630-32	Utility Conduit	Large Utility Pipe,	Positive Stop
	Packing/Sealant	East End at Abutment	(Not Analyzed)
1022630-33	Utility Conduit	Large Utility Pipe,	Positive Stop
	Packing/Sealant	West End at Abutment	(Not Analyzed)

# Appendix A Asbestos Inspection Fact Sheet

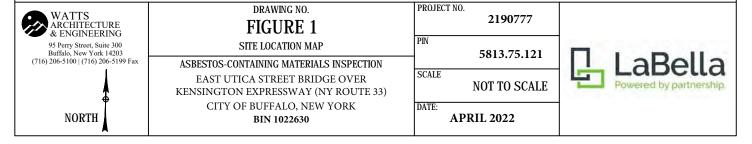
## **Asbestos Inspection Fact Sheet**

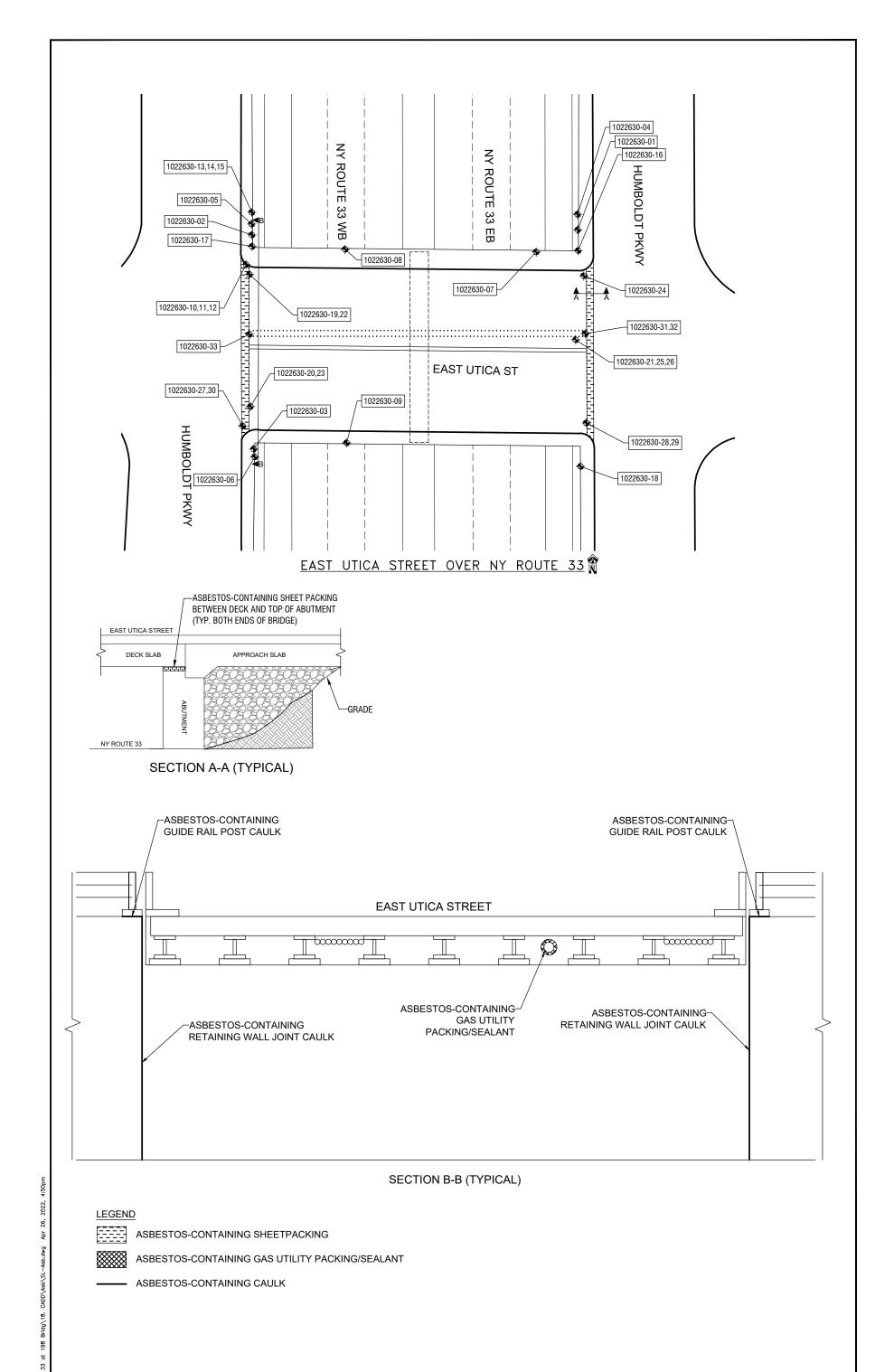
Name and Address of Building/Structure
East Utica Street Bridge Over Kensington
Expressway (NY Route 33) (BIN 1022630)
City of Buffalo, Erie County, New York
Name and Address of Building/Structure Owner
New York State Department of Transportation
50 Wolf Road
Albany, New York 12232
Name and Address of Owner's Agent
LaBella Associates, D.P.C.
300 State Street, Suite 201
Rochester, New York 14614
Name of the Firm & Persons Conducting the Inspection
Watts Architecture & Engineering
Matthew E. Holquist (NYSDOL Cert #01-08239)
Robert S. Swick (NYSDOL Cert #20-05731)
William G. Coyle (NYSDOL Cert #17-39003)
Date the Inspection Was Conducted
February 23, 2022 and April 12, 2022

# Appendix B Figures



SOURCE: NYSDOT BDIS





SAMPLES WERE COLLECTED ON FEBRUARY 23 AND APRIL 12, 2022.

INDICATES APPROXIMATE SAMPLE LOCATION

Rtes

ASBESTOS BULK SAMPLE LOCATIONS
BIN 1022630

EAST UTICA STREET OVER NY ROUTE 33
CITY OF BUFFALO, NEW YORK
ONLY YORK 14230
NOT TO SCALE

APRIL 2022

# Appendix C Laboratory Analytical Report



Customer PO: Project ID:

Attention: Matthew Holquist Phone: (716) 206-5100

Watts Architecture & Engineering Fax: (716) 206-5199

95 Perry Street Received Date: 04/14/2022 4:20 PM

 Suite 300
 Analysis Date:
 04/18/2022

 Buffalo, NY 14203
 Collected Date:
 04/14/2022

Project: 1911313 / PIN 5813.75.121, E. Utica St. Over Rt 33, Buffalo, Erie Co., NY / BIN 1022630

#### **Test Report: Asbestos Analysis of Bulk Material**

#### Non-Asbestos

		Analyzed	Non-Asbestos			
Te	est	Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1022630-01		Description	Retaining Wall Grey Caulk		
	142201258-00	01	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	04/18/2022	Gray	None	93.80% Other	6.20% Chrysotile
EM NYS 19	98.4 NOB	04/18/2022				Not Analyzed
Sample ID	1022630-02		Description	Retaining Wall Grey Caulk		
	142201258-00	02	Homogeneity			
LM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
TEM NYS 19	98.4 NOB	04/18/2022				Not Analyzed
Sample ID	1022630-03		Description	Retaining Wall Grey Caulk		
	142201258-00	03	Homogeneity			
PLM NYS 19	98.1 Friable					Not Analyzed
LM NYS 19	8.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
EM NYS 19	98.4 NOB	04/18/2022				Not Analyzed
Sample ID	1022630-04		Description	Rail Post Grey Caulk		
	142201258-00	04	Homogeneity	Homogeneous		
PLM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	04/18/2022	Gray	None	92.90% Other	7.10% Chrysotile
TEM NYS 19	98.4 NOB	04/18/2022				Not Analyzed
Sample ID	1022630-05		Description	Rail Post Grey Caulk		
	142201258-00	05	Homogeneity			
LM NYS 19	8.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
EM NYS 19	98.4 NOB	04/18/2022				Not Analyzed



Customer PO: Project ID:

#### **Test Report: Asbestos Analysis of Bulk Material**

Non-Asbestos Analyzed Non-Fibrous Color **Fibrous** Asbestos Test Date Rail Post Grey Caulk Sample ID 1022630-06 Description 142201258-0006 Homogeneity PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 04/18/2022 Positive Stop (Not Analyzed) 04/18/2022 **TEM NYS 198.4 NOB** Not Analyzed Sample ID 1022630-07 Description Curb/Knee Wall Grey Caulk 142201258-0007 Homogeneous Homogeneity PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 04/18/2022 Gray 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 04/18/2022 100.00% Other **None Detected** Gray Curb/Knee Wall Grey Caulk 1022630-08 Sample ID Description 142201258-0008 Homogeneous Homogeneity PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed 04/18/2022 **PLM NYS 198.6 NOB** 100.00% Other Gray Inconclusive: None Detected **TEM NYS 198.4 NOB** 04/18/2022 Gray 100.00% Other **None Detected** Sample ID 1022630-09 Curb/Knee Wall Grey Caulk Description 142201258-0009 Homogeneous Homogeneity PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM Not Analyzed PLM NYS 198.6 NOB** 04/18/2022 100.00% Other Inconclusive: None Detected Gray **TEM NYS 198.4 NOB** 04/18/2022 Gray 100.00% Other **None Detected** Sample ID 1022630-10 Abutment/Retaining Wall Joint Filler Description 142201258-0010 Homogeneous Homogeneity PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 04/18/2022 Black 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 04/18/2022 Black 100.00% Other **None Detected** 1022630-11 Abutment/Retaining Wall Joint Filler Sample ID Description 142201258-0011 Homogeneous Homogeneity PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed

100.00% Other

100.00% Other

Report amended: 04/18/2022 16:49:12 Replaces initial report from: 04/18/2022 09:30:58 Reason Code: Data Entry-Change to Project

04/18/2022

04/18/2022

Black

Black

**PLM NYS 198.6 NOB** 

**TEM NYS 198.4 NOB** 

Inconclusive: None Detected

None Detected



Customer PO: Project ID:

#### **Test Report: Asbestos Analysis of Bulk Material**

Non-Asbestos Analyzed Non-Fibrous Color **Fibrous** Asbestos Test Date Sample ID 1022630-12 Description Abutment/Retaining Wall Joint Filler 142201258-0012 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 04/18/2022 Black 100.00% Other Inconclusive: None Detected 04/18/2022 Black 100.00% Other **TEM NYS 198.4 NOB** None Detected Sidewalk/Back of Retaining Wall Joint Filler Sample ID 1022630-13 Description 142201258-0013 Homogeneous Homogeneity PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 04/18/2022 Black 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 04/18/2022 Black 100.00% Other **None Detected** 1022630-14 Sidewalk/Back of Retaining Wall Joint Filler Sample ID Description 142201258-0014 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed 04/18/2022 Black 100.00% Other PLM NYS 198.6 NOB Inconclusive: None Detected **TEM NYS 198.4 NOB** 04/18/2022 Black 100.00% Other **None Detected** Sample ID 1022630-15 Sidewalk/Back of Retaining Wall Joint Filler Description 142201258-0015 Homogeneous Homogeneity PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM Not Analyzed PLM NYS 198.6 NOB** Inconclusive: None Detected 04/18/2022 Black 100.00% Other **TEM NYS 198.4 NOB** 04/18/2022 Black 100.00% Other **None Detected** Sample ID 1022630-16 Bituminous Tar Description 142201258-0016 Homogeneous Homogeneity PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 04/18/2022 Black 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 04/18/2022 Black 100.00% Other **None Detected** 1022630-17 Sample ID Description Bituminous Tar 142201258-0017 Homogeneity Homogeneous PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 04/18/2022 Black 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 04/18/2022 Black 100.00% Other None Detected



Customer PO: Project ID:

#### Test Report: Asbestos Analysis of Bulk Material

Non-Asbestos

	Analyzed		Non-A	sbestos	
Tes		Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1022630-18	Description	Bituminous Tar		
	142201258-0018	Homogeneity	Homogeneous		
PLM NYS 198	.1 Friable				Not Analyzed
PLM NYS 198	.6 VCM				Not Analyzed
PLM NYS 198	.6 NOB 04/18/2022	Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198	.4 NOB 04/18/2022	Black		100.00% Other	None Detected
Sample ID	1022630-19	Description	Grey Bridge/Girder Paint		
	142201258-0019	Homogeneity	Heterogeneous		
PLM NYS 198	.1 Friable				Not Analyzed
PLM NYS 198	.6 VCM				Not Analyzed
PLM NYS 198	.6 NOB 04/18/2022	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198	.4 NOB 04/18/2022	Brown/ Gray		100.00% Other	None Detected
Sample ID	1022630-20	Description	Grey Bridge/Girder Paint		
	142201258-0020	Homogeneity	Heterogeneous		
PLM NYS 198	.1 Friable				Not Analyzed
PLM NYS 198	.6 VCM				Not Analyzed
PLM NYS 198	.6 NOB 04/18/2022	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198	.4 NOB 04/18/2022	Brown/ Gray		100.00% Other	None Detected
Sample ID	1022630-21	Description	Grey Bridge/Girder Paint		
	142201258-0021	Homogeneity	Heterogeneous		
PLM NYS 198	.1 Friable				Not Analyzed
PLM NYS 198	.6 VCM				Not Analyzed
PLM NYS 198	.6 NOB 04/18/2022	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198	.4 NOB 04/18/2022	Brown/ Gray		100.00% Other	None Detected
Sample ID	1022630-22	Description	Bearing Pad		
	142201258-0022	Homogeneity	Homogeneous		
PLM NYS 198	.1 Friable				Not Analyzed
PLM NYS 198	.6 VCM				Not Analyzed
PLM NYS 198	.6 NOB 04/18/2022	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198	.4 NOB 04/18/2022	Brown/ Black		100.00% Other	None Detected
Sample ID	1022630-23	Description	Bearing Pad		
	142201258-0023	Homogeneity	Homogeneous		
PLM NYS 198	.1 Friable				Not Analyzed
PLM NYS 198	.6 VCM				Not Analyzed
PLM NYS 198	.6 NOB 04/18/2022	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 198	.4 NOB 04/18/2022	Brown/ Black		100.00% Other	None Detected



Customer PO: Project ID:

#### Test Report: Asbestos Analysis of Bulk Material

Non-Asbestos

		Analyzed		No	n-Asbestos	
Te	est	Date	Color	Fibrous	Non-Fibrous	Asbestos
ample ID	1022630-24		Description	Bearing Pad		
	142201258-00	024	Homogeneity	Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	04/18/2022	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 19	98.4 NOB	04/18/2022	Brown/ Black		100.00% Other	None Detected
Sample ID	1022630-25		Description	Masonry Coating		
	142201258-00	025	Homogeneity	Homogeneous		
PLM NYS 19	98.1 Friable	04/18/2022	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB					Not Analyzed
TEM NYS 19	98.4 NOB					Not Analyzed
Sample ID	1022630-26		Description	Masonry Coating		
	142201258-00	026	Homogeneity	Homogeneous		
PLM NYS 19	98.1 Friable	04/18/2022	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB					Not Analyzed
TEM NYS 19	98.4 NOB					Not Analyzed
Sample ID	1022630-27		Description	Masonry Coating		
	142201258-00	027	Homogeneity	Homogeneous		
PLM NYS 19	98.1 Friable	04/18/2022	Gray		100.00% Non-fibrous (other)	None Detected
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB					Not Analyzed
TEM NYS 19	98.4 NOB					Not Analyzed
Sample ID	1022630-28		Description	Sheet Packing		
	142201258-00	028	Homogeneity	Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	04/18/2022	Gray	None	70.00% Other	30.00% Chrysotile
TEM NYS 19	98.4 NOB	04/18/2022				Not Analyzed
Sample ID	1022630-29		Description	Sheet Packing		
	142201258-00	029	Homogeneity			
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
TEM NYS 19	98.4 NOB	04/18/2022				Not Analyzed



Analyzed

EMSL Order: 142201258 Customer ID: WATT50

Customer PO: Project ID:

#### Test Report: Asbestos Analysis of Bulk Material

#### Non-Asbestos

Te	est	Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1022630-30		Description	Sheet Packing		
	142201258-00	030	Homogeneity			
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
TEM NYS 19	98.4 NOB	04/18/2022				Not Analyzed
Sample ID	1022630-31		Description	Utility Conduit Packing/	Sealant	
	142201258-00	031	Homogeneity	Homogeneous		
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	04/18/2022	Gray/ Black	None	93.20% Other	6.80% Chrysotile
TEM NYS 19	98.4 NOB	04/18/2022				Not Analyzed
Sample ID	1022630-32		Description	Utility Conduit Packing/	Sealant	
	142201258-00	032	Homogeneity			
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
TEM NYS 19	98.4 NOB	04/18/2022				Not Analyzed
Sample ID	1022630-33		Description	Utility Conduit Packing/	Sealant	
	142201258-00	)33	Homogeneity			
PLM NYS 19	98.1 Friable					Not Analyzed
PLM NYS 19	98.6 VCM					Not Analyzed
PLM NYS 19	98.6 NOB	04/18/2022				Positive Stop (Not Analyzed)
	98.4 NOB	04/18/2022				Not Analyzed



Customer PO: Project ID:

#### Test Report: Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

**Report Comments:** 

Sample Receipt Date: 4/14/2022 Analysis Completed Date: 4/18/2022 Sample Receipt Time: 4:20 PM Analysis Completed Time: 8:51 AM

Analyst(s):

Margo Burgio PLM NYS 198.1 Friable (2)

Margo Burgio PLM NYS 198.6 NOB (22)

· ·

Samples reviewed and approved by:

Phauna La Valley

Shauna LaValley PLM NYS 198.1 Friable (1)

Tom Hanes TEM NYS 198.4 NOB (18)

Rhonda McGee, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

96 Hr.

Page: 1 of

## WATTS ARCHITECTS & ENGINEERS ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY New York State Department of Transportation Client: 4/14/22 PIN 5813.75.121, E. Utica St. over Rt 33, Buffalo, Erie Co., NY Project: Watts Project No.: 1911313 Building / Location: BIN 1022630 Matt Holquist at (716) 435-1724 Contact: Analysis Requested: Turnaround Time Requested: 24 Hr. **Email Preliminary Results to:** mholquist@watts-ae.com 5 Day ELAP 198.1 (Friable PLM) Mail Report & Invoice to: Watts Architecture & Engineering 48 Hr. 1 Week ELAP 198.6 (NOB PLM) 95 Perry Street, Buffalo, NY 14203 72 Hr. 2 Weeks **ELAP 198.4 (NOB TEM)** 

Other (Specify)

Sample	Material Description	100	Sample Lecation	Laboratory Results		
Number	Material Description	НМ	Sample Location	PLM	TEM	
1022630-01	Retaining Wall Grey Caulk	1	NE Retaining Wall Vertical Joint			
1022630-02	Retaining Wall Grey Caulk	1	NW Retaining Wall Vertical Joint			
1022630-03	Retaining Wall Grey Caulk	1	SW Retaining Wall Vertical Joint			
1022630-04	Rail Post Grey Caulk	2	Top of Retaining Wall, NE Corner			
1022630-05	Rail Post Grey Caulk	2	Top of Retaining Wall, NW Corner			
1022630-06	Rail Post Grey Caulk	2	Top of Retaining Wall, SW Corner			
1022630-07	Curb/Knee Wall Grey Caulk	3	North Side of Bridge, East End			
1022630-08	Curb/Knee Wall Grey Caulk	3	North Side of Bridge, West End			
1022630-09	Curb/Knee Wall Grey Caulk	3	South Side of Bridge, West End			
1022630-10	Abutment/Retaining Wall Joint Filler	4	NW Corner			
1022630-11	Abutment/Retaining Wall Joint Filler	4	NW Corner			
1022630-12	Abutment/Retaining Wall Joint Filler	4	NW Corner			

Sampled By:	Matthew E. Holquist Madda & Holgot Date: 4/14/22 Time: 12:00	Received By:
Relinquished By:	Matthew E. Holquist Matthe & Holg of Date: 4/14/22 Time: 12:00	Received By:

Date: Date:

Comments: Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.

HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

Page:

## WATTS ARCHITECTS & ENGINEERS ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY Client: New York State Department of Transportation 4/14/22 PIN 5813.75.121, E. Utica St. over Rt 33, Buffalo, Erie Co., NY Project: Watts Project No.: 1911313 Building / Location: BIN 1022630 Contact: Matt Holquist at (716) 435-1724 Turnaround Time Requested: Analysis Requested: **Email Preliminary Results to:** 24 Hr. 5 Day mholquist@watts-ae.com ELAP 198.1 (Friable PLM) Watts Architecture & Engineering 1 Week Mail Report & Invoice to: 48 Hr. ELAP 198.6 (NOB PLM) 95 Perry Street, Buffalo, NY 14203 72 Hr. 2 Weeks **ELAP 198.4 (NOB TEM)** 96 Hr. Other (Specify)

Sample	Motorial Description	нм	Sample Location	Laboratory Results		
Number	Material Description	ПМ	Sample Location	PLM	TEM	
1022630-13	Sidewalk/Back of Retaining Wall Joint Filler	5	NW Sidewalk			
1022630-14	Sidewalk/Back of Retaining Wall Joint Filler	5	NW Sidewalk			
1022630-15	Sidewalk/Back of Retaining Wall Joint Filler	5	NW Sidewalk			
1022630-16	Bituminous Tar	6	NE Sidewalk			
1022630-17	Bituminous Tar	6	NW Sidewalk			
1022630-18	Bituminous Tar	6	SE Sidewalk			
1022630-19	Grey Bridge/Girder Paint	7	North Girder, West End			
1022630-20	Grey Bridge/Girder Paint	7	South Girder, West End			
1022630-21	Grey Bridge/Girder Paint	7	Middle Girder, East End			
1022630-22	Bearing Pad	8	North Girder, West End			
1022630-23	Bearing Pad	8	South Girder, West End			
1022630-24	Bearing Pad	8	North Girder, East End			

Sampled By: Matthew E. Holquist Matha & Holquist Matha & Holquist Matha & Holquist Date: 4/14/22 Time: 12:00 Received By: Date: Date: Date: Date: Date: Date: Date: Matha & Holquist Matha & Holqui

HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions

Page: 3 of

## WATTS ARCHITECTS & ENGINEERS ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

		ASBE	STOS BULK SAMPLE CHAIN-OF-CUS	STODY					
Client:	New York State Depart	ment of Tra	nsportation			Date:		4/14/22	
Project:	PIN 5813.75.121, E. U	r Rt 33, Buffalo, Erie Co., NY	Wa	ct No.:		1911313			
Building /	Location: BIN 10226	30							
Contact:	Matt Hold	Matt Holquist at (716) 435-1724		Analysis Requested	Turnaround Time Requested:				
Email Pre	liminary Results to:		mholquist@watts-ae.com	ELAP 198.1 (Friable PLM)	X	24 Hr.		5 Day	
Mail Report & Invoice to:		nvoice to: Watts Architecture & Engineering		ELAP 198.6 (NOB PLM)	X	48 Hr.	X	1 Week	
		95 Perry	Street, Buffalo, NY 14203	ELAP 198.4 (NOB TEM)	X	72 Hr.		2 Weeks	
				Other (Specify)		96 Hr.			

Sample	Material Description	нм	Sample Location	Laboratory Results	
Number			Sample Location	PLM	TEM
1022630-25	Masonry Coating	9	Middle Girder, East End		
1022630-26	Masonry Coating	9	Middle Girder, East End		
1022630-27	Masonry Coating	9	South Girder, West End		
1022630-28	Sheet Packing	10	Top of Abutment, SE Corner		
1022630-29	Sheet Packing	10	Top of Abutment, SE Corner		
1022630-30	Sheet Packing	10	Top of Abutment, SW Corner		
1022630-31	Utility Conduit Packing/Sealant	11	Large Utility Pipe, East End at Abutment		
1022630-32	Utility Conduit Packing/Sealant	11	Large Utility Pipe, East End at Abutment		
1022630-33	Utility Conduit Packing/Sealant	11	Large Utility Pipe, West End at Abutment		

Sampled By:	Matthew E. Holquist Matthe & Holgart Date: 4/14/22 Time: 12:00	Received By:	Sally wz Date:	4/14/22 4:2017			
Relinquished By	Matthew E. Holquist Matthe & Holg of Date: 4/14/22 Time: 12:00	Received By:	Date:				
Comments:	Stop at First Positive for each HM. Analyze NOB materials by TEM if Non-ACM by PLM.						
	HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions						

# Appendix D Licenses and Certifications

95 Perry Street Suite 300 Buffalo, NY 14203 120 East Washington Street Suite 414 Syracuse, NY 13202 325 Gold Street Suite 701 Brooklyn, NY 11201



New York State - Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

#### ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C. Suite 300
95 Perry Street

Buffalo, NY 14203

FILE NUMBER: 12-68007 LICENSE NUMBER: 68007 LICENSE CLASS: RESTRICTED DATE OF ISSUE: 09/22/2021 EXPIRATION DATE: 09/30/2022

Duly Authorized Representative - Edward Watts:

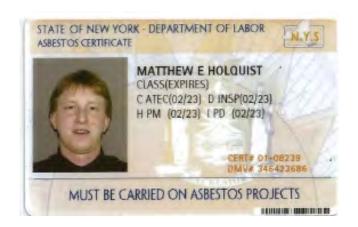
This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

SH 432 (8/12)

Amy Phillips, Director For the Commissioner of Labor





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EYES BLU HAIR BLN IF FOUND RETURN TO: MYSDOL - L&C UNIT ROOM 161A BUILDING 12 STATE OFFICE CAMPUS ALBANY NY 12240

#### Matthew E. Holquist

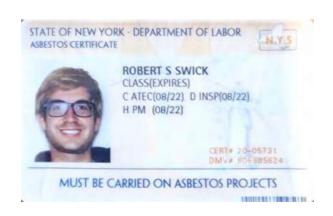
C - Air Sampling Technician

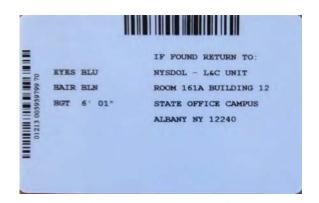
D - Inspector

H - Project Monitor

I - Project Designer







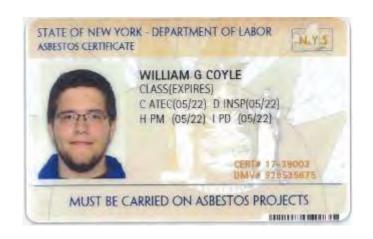
#### **Robert Swick**

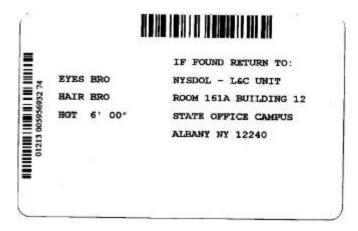
C - Air Sampling Technician

D - Inspector

H - Project Monitor







#### William Coyle

- C Air Sampling Technician
- D Inspector
- H Project Monitor
- I Project Designer

# Appendix E Photos



**Photo 1** – View looking east at BIN 1022630 (E. Utica Street over Kensington Expressway (NY Route 33)).



**Photo 2** – View looking north at BIN 1022630 (E. Utica Street over Kensington Expressway (NY Route 33)).



**Photo 3** – View looking south at BIN 1022630 (E. Utica Street over Kensington Expressway (NY Route 33)). MPT was necessary in order to inspect the underside of the bridge.



**Photo 4** – View of the grey sheet packing that has been identified as an ACM at BIN 1022630.



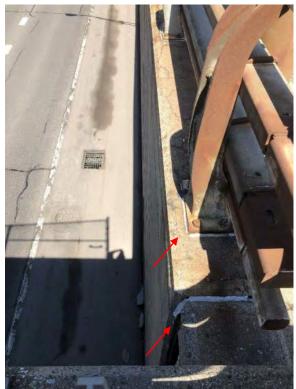
**Photo 5** – View of the 12" metal conduit associated with the 8" gas utility line where it penetrates the east abutment of BIN 1022630. The packing/sealant around the perimeter of the 12" conduit where it penetrates each abutment has been identified as an ACM.



**Photo 6** – View of the degraded asbestos-containing packing/sealant associated with the gas utility conduit at the west abutment of BIN 1022630.



**Photo 7** – View facing east at the northeast corner of BIN 1022630 and the retaining wall. The retaining wall grey caulk and the retaining wall guide rail post base grey caulk have both been identified as an ACM. The retaining wall caulk is degraded in places.



**Photo 8** – View facing north at the northeast corner of BIN 1022630 and the retaining wall. The retaining wall grey caulk and the retaining wall guide rail post base grey caulk have both been identified as an ACM.



**Photo 9** – View facing west at the northeast corner of BIN 1022630 and the retaining wall. The retaining wall grey caulk and the retaining wall guide rail post grey caulk have both been identified as an ACM. The retaining wall caulk is located along the vertical and horizontal face of the retaining wall.



**Photo 10** – View of the curb/knee wall along the north side of BIN 1022630. No ACM was identified in association with the associated concrete expansion joint caulk, guide rail, or fence posts.

#### **Asbestos-Containing Materials Inspection**

FOR

BIN 1022640 E Ferry Street over Kensington Expressway (Rt. 33) City of Buffalo, Erie County, New York

PREPARED FOR

LaBella Associates 300 State St #201 Rochester, NY 14614

FOR SUBMISSION TO

New York State Department of Transportation Region 5

100 Seneca Street

Buffalo, NY 14203

PIN - 5512.52.123 D038277 Watts Project No. 20220255 August 2023, Revised September 2023

Submitted by:

Watts Architects &Engineers



### Watts Project Contact and Asbestos Fact Sheet



#### Name and Address of Building/Structure

BIN 1022640 - E Ferry Street Bridge over

Kensington Expressway (NYS Route 33)

City of Buffalo, Erie County, New York

#### Name and Address of Building/Structure Owner

New York State Department of Transportation

50 Wolf Road

Albany, New York 12232

#### Name of the Firm & Persons Conducting the Inspection

Watts Architects & Engineers

Matthew E. Holquist (NYSDOL Cert #01-08239)

Robert S. Swick (NYSDOL Cert #20-05731)

William G. Coyle (NYSDOL Cert #17-39002)

#### Date(s) the Inspection Was Conducted

May 10 & 23, 2023



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### Appendices

Appendix A – Photos

Appendix B - Figures

Figure 1 – Project Location Map

Figure 2 – Asbestos Bulk Sample Locations

Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)

Appendix D – License(s) and Certification(s)

Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information



### 1.0 / Introduction

Watts Architects & Engineers, D.P.C. (Watts) was retained by New York State Department of Transportation (NYSDOT), in conjunction with LaBella Associates, D.P.C. (LaBella) being the lead Design Engineers for the Kensington Expressway Project (PIN 5512.52), to complete an Asbestos-Containing Materials (ACM) Inspection of the E Ferry Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022640) as part of the overall larger project, located in the City of Buffalo, Erie County, New York. The overall PIN 5512.52 project includes the covering of the Kensington Expressway between Dodge Street and Sidney Street, with the purpose of re-creating the original Humboldt parkway setting that existed prior to the construction of the expressway, while maintaining the expressway as is, and at its current capacity. The project involves the demolition of five bridge structures and associated adjacent retaining walls throughout the project corridor along the Kensington Expressway. A separate report was prepared for each of the bridge structures throughout the project corridor, which includes:

- BIN 1022610 Dodge Street Bridge over NYS Route 33
- BIN 1022620 Northampton Street Bridge over NYS Route 33
- BIN 1022630 East Utica Street Bridge over NYS Route 33
- BIN 1022640 East Ferry Street Bridge over NYS Route 33
- BIN 1022609 Best Street Bridge over NYS Route 33

Since the overall retaining wall system throughout the project corridor isn't specifically associated with a single bridge, the ACM information associated with all of the retaining wall structures throughout the overall project corridor is summarized within each of the bridge reports noted above (the information is redundant). The information and estimated quantities are based upon the project limits at the time of reporting.

See Figure 1 – Project Location Map within **Appendix B – Figures**. The purpose of the bridge inspection was to identify and sample suspect ACM which may require abatement prior to or during demolition of the structure. The inspection was limited to the review of available records and examination of the areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. The following information summarizes the results of the investigation.

### 2.0 / Inspection Results

The inspection involved the review of available historical record plans and previously completed asbestos inspection reports in an attempt to identify known or suspect ACM and an onsite inspection that fulfilled the NYSDOT methodology of collecting three (3) bulk samples for each identified homogeneous suspect ACM. Watts collected a total of twelve (12) bulk samples to represent the four (4) identified suspect ACM that are present at the structure (and were not previously sampled). ACM is defined as any material containing more than one percent (1%) of asbestos. Based on the information obtained during the records review, laboratory analysis of bulk samples collected as part of this investigation, previous sampling and analysis (if applicable), and visual observations, the following information regarding ACM has been identified at BIN 1022640 – E Ferry Street Bridge over Kensington Expressway (NYS Route 33).

### Confirmed Asbestos-Containing Materials (ACM)

Based on the record plan review, previous ACM inspection reports, subsequent field inspection, and laboratory analysis of collected samples, the following ACM was identified:



Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Grey / Black Sheet Packing	Between Deck and Abutment at both ends of Bridge	128 SF	Non-Friable	Good	210.3312
Black Bearing Pad	Between Bearing and Concrete Bearing Support	237 SF	Non-Friable	Good	210.3312
Abutment / Retaining Wall Caulking	Within Retaining Wall Vertical Expansion Joints (One at Each Corner of the Bridge and Located Every 90 Linear Feet of Retaining Wall)	~2,179 LF (~545 SF for NYSDOL Reporting Purposes)	Non-Friable	Fair to Good	210.3411
Rail Post Base Grey Caulk	Base of Metal Guide Rail Posts on Top of the Retaining Walls in the Northern Portion of the Project Corridor	2,457 LF (~205 SF for NYSDOL Reporting Purposes)	Non-Friable	Good	210.3411

### **Confirmed ACM Details**

During the record plan review, previous ACM inspection reports, and onsite inspection, the following ACM was identified:

### **Dark Grey Sheet Packing**

The asbestos-containing sheet packing associated with this bridge was previously tested and identified as an ACM during the 2014 Asbestos Survey Report. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

Dark grey asbestos-containing sheet packing is located between the top of the abutments and the bottom of the deck slab at both ends of the bridge. Most of the material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations. It is estimated that the total amount of dark grey sheet packing on the bridge is approximately 128 square feet (approximately 64 square feet per abutment). The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**.

### **Black Bearing Pad**

The asbestos-containing black bearing pads associated with this bridge were previously tested and identified as an ACM during the 2014 Asbestos Survey Report. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

Asbestos-containing black bearing pads are located between each metal bridge bearing and the concrete bearing pedestal at every bearing location at both bridge abutments and the center pier. There are a total of 9 metal girders with 3 bearings for each girder, totaling 27 bearing pads. The previous report estimated that the total amount of this asbestos-containing bearing pad material at the bridge is approximately 237 square feet. The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B** – **Figures**.



### Abutment / Retaining Wall Caulking

An asbestos-containing caulking is located within the vertical expansion joints of the retaining walls along both sides of the Kensington Expressway (NYS Route 33) project corridor. There are wall joints spaced out approximately every 30 linear feet along the retaining wall, with an expansion joint (filled with a non-ACM joint filler and covered with the asbestos-containing caulking) being located at every third joint. The two joints in between the expansion joints are each control joints with no joint fillers or ACM caulking. The control joints are tooled in as stress relief points that provide a potential cracking location within the joint itself as an effort to prevent wall surface cracking. The expansion joints (with non-ACM joint filler and asbestos-containing caulking) allow for expansion/contraction of the concrete wall. In addition to the 30' spaced two control joints and one expansion joint, there are additional expansion joints (with associated asbestos-containing caulking) in close proximity at each corner of the project corridor bridges.

The ACM was generally observed to be intact in most expansion joints, however, it was observed that the asbestos-containing caulking was no longer intact within some of the expansion joints or was sometimes covered with a newer, non-asbestos-containing caulking. It appears that the coloration of the caulking has been affected by staining and weathering, as it is not consistent in color throughout the corridor. In general, the asbestos-containing caulking was observed to be grey in color, but was sometimes darker or lighter grey, sometimes lighter or darker tan to brown. Thus, for estimating purposes, it is assumed that all of the caulking present within each expansion joint throughout the project corridor is an ACM (or is a newer non-ACM caulking but is applied directly onto the remnant asbestos-containing caulking).

It is estimated that the total amount of caulking associated with the retaining wall system throughout the project corridor is approximately 2,179 linear feet. The caulking is approximately 3" wide on average and there are a total of 108 vertical expansion joints that extend from the Kensington Expressway (NYS Route 33) roadway surface up the entire retaining wall and also extending along the horizontal surface (approximately 1.5') on top of the retaining wall. For NYSDOL reporting purposes, this is equivalent to approximately 545 square feet in total (note that NYSDOL considers this type of ACM a reportable quantity in square feet, while NYSDOT considers caulking a linear foot pay item). The approximate locations of the ACM caulking that are in close proximity to the bridge are shown in Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures** and can also be seen within **Appendix A – Photos**. In addition, quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information**.

### Rail Post Base Grey Caulk

The asbestos-containing grey caulk associated with the metal guide rail post bases associated with this bridge was previously tested and identified as an ACM during the 2014 Asbestos Sampling Survey. See **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information** for additional details regarding that report.

This ACM has also been confirmed present in association with the metal guide rail post bases throughout the northern portion of the project corridor where the originally installed metal guide rail system still remains. The southern portion of the project corridor has a different guide rail system that consists of recently installed decorative concrete guide rails that do not have associated ACM (however, the retaining walls below these areas still do have the asbestos-containing caulking associated with the expansion joints).

Grey asbestos-containing caulking compound is located around the perimeter of the guide rail post base plates associated with the retaining walls in the northern portion of the project corridor. It is important to note that the base plates associated with the guide rails and fencing posts located on the bridge curb/knee wall superstructure are of a different construction and do not have any associated ACM. Each rectangular guide rail post base plate with ACM is approximately 8" x 14" (a total of 3.67 linear feet per plate) and has an approximate 1" thick bead of caulk around the perimeter of each plate. There are approximately 670 guide rail post base plates with ACM associated with the retaining walls throughout the northern portion of the project corridor. Thus, it is estimated that the total amount of grey caulking compound associated with the guide rail post base plates is approximately 2,457 linear feet (205 square feet for NYSDOL reporting purposes). The ACM was generally observed to be intact in most locations. The approximate locations of this material are shown in Figure 2 – Asbestos Bulk Sample Locations within Appendix B – Figures and can also be seen within Appendix A – Photos. In addition, details regarding the various retaining walls throughout the project corridor completed by design engineers from LaBella



involved with the retaining wall design are included within Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan and Project Information.

#### Inaccessible Assumed ACM

During the record plan review, previous ACM inspection reports, and onsite inspection, the following inaccessible assumed ACM was identified.

Type of Material	Typical Location	Estimated Amount	Friability	Condition	NYSDOT Specification Item No.
Waterproofing Item 61 – Bituminous Material	Back Side of Abutments and Retaining Walls, Counterforts, Top of Footer Piles	~234,486 SF	Non-Friable	Unknown	210.481201

#### Inaccessible Assumed ACM Details

### Waterproofing - Item 61 - Bituminous Material

This suspect ACM was identified during the record plan review in association with the retaining walls, counterforts, top of the footer piles, and abutments throughout the project corridor. According to the original Kensington Expressway construction documents, this suspect ACM was applied to the following locations: the back sides of the retaining walls; around all counterforts; extended 1' on top of the footing; and, the backs of all abutments and wingwalls from the top of footings to the bottom of pavement. As a result of this suspect ACM being buried beneath the concrete and asphalt roadway surface and the concrete sidewalks, this suspect ACM could not be accessed for sampling and subsequent submission for laboratory analysis. It is recommended that the material be tested for asbestos content prior to construction activities and any asbestos abatement because more often than not, Item 61 – Bituminous Material is found not to be an ACM, however, on occasion it is identified as an ACM, thus it must be assumed to be ACM.

It is estimated that the total amount of the suspect ACM Waterproofing – Item 61 – Bituminous Material is approximately 234,486 square feet throughout the project corridor. Quantity calculation sheets completed by design engineers from LaBella involved with the retaining wall design and the record plan information that details the approximate locations of this inaccessible/assumed ACM are included within **Appendix E – Previous ACM Report(s) and Asbestos-Related Record Plan Information**.

The 2014 Asbestos Survey Report identified the additional following two (2) Inaccessible/Assumed ACM as possibly being present at the East Ferry Street Bridge over Kensington Expressway (NYS Route 33) (BIN 1022640):

- Asbestos-containing caulking surrounding steel conduits buried within the concrete sidewalk on both sides
  of the bridge.
- Asbestos-containing tar coating associated with the 12-inch casing surrounding the 8-inch gas utility lines.

Record plans indicate that there are steel utility conduits buried within the concrete sidewalk on both sides of the bridge. While suspect asbestos-containing caulking potentially could be located around the expansion sleeves of the conduits buried in the sidewalks, no caulking or sealant was specifically called out within the construction documents, nor has it been observed during any of the field inspections. In addition, the same record plans indicate that there is an 8-inch gas utility line with a 12-inch casing. While suspect asbestos-containing tar coating could be located on the gas utility, none was called out within the construction documents, nor has it been observed during any of the field inspections. Without further information confirming that these suspect asbestos-containing materials are actually located at the bridge, they are no longer considered an Inaccessible/Assumed ACM. If additional information is obtained regarding their potential presence, or if these items are observed during construction, they must be assumed to be an ACM until testing can prove otherwise.



For a complete listing of the suspect ACM that was sampled as part of this inspection, see the Asbestos Bulk Sample Summary Table that is included later within this report.

### 3.0 / Inspection Procedures

Watts reviewed information available via NYSDOT's Bridge Data Information System (BDIS) and Record Plans that were made available by NYSDOT, Region 5.

A New York State Department of Labor (NYSDOL) certified asbestos inspector from Watts visited the site and collected bulk samples of all accessible suspect ACM that are present at the structure and were not previously sampled. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

The assessment of the structure included observations to estimate the approximate amount (length or area) of suspect ACM, if present. Photographs taken by Watts during the inspection are included within **Appendix A** – **Photos**. Where possible, Watts visually inspected identified suspect ACM to assess their condition. The conditions of the ACM are classified as good, fair, or poor. The requirement for each designation is as follows:

Good: Material with no visible damage or deterioration or showing very limited damage or deterioration.

Fair: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering less than one tenth of the surface if the damage is evenly distributed or up to 25% of the material if the damage is localized.

Poor: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering more than one tenth of the surface if the damage is evenly distributed or more than 25% of the material if the damage is localized. Material with large areas hanging from the substrate, delaminated, heavily gouged, crushed, etc.

Bulk samples of accessible suspect ACM that have not been previously analyzed were collected during the site inspection of the subject structure. In accordance with NYSDOT's Transportation Environmental Manual (TEM), three (3) samples were taken of each homogeneous material that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground by use of a ladder from below. Samples were delivered with the proper chain-of-custody forms to a New York State-accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except non-friable organically bound (NOB) materials were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.1. In addition, all samples analyzed via 198.1 were examined for the presence of vermiculite. NOBs, which include, but are not limited to, tars, bond breakers, bearing pads, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) using NY ELAP Method 198.6. Any NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy using NY ELAP Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by Transmission Electron Microscopy if the PLM analysis does not confirm the presence of asbestos.

An Asbestos Bulk Sample Summary Table can be found after Section 5.0 of this report, and it includes information on all suspect ACM sampled during this inspection. In addition, it enumerates all suspect homogeneous materials identified, corresponding bulk sample numbers, results of the various testing conducted, and whether or not the items are ACM. Drawing(s) identifying the approximate locations of asbestos bulk samples and detailed information regarding identified ACM (if present) are included within Figure 2 – Asbestos Bulk Sample Locations within **Appendix B – Figures**. The asbestos laboratory report(s) and associated chain-of custody form(s) are included within **Appendix C – Laboratory Analytical Report(s) and Chain-of-Custody Form(s)**. The related asbestos license and certification information is included within **Appendix D – License(s) and Certification(s)**.



### 4.0 / Inspection Limitations

This inspection was conducted in accordance with NYSDOT TEM, NYSDOL, and United States Environmental Protection Agency (USEPA) asbestos regulations. Collection of bulk samples of suspect ACM was limited to those materials accessible using hand tools. Homogeneous materials were identified and located based on visual observation from accessible locations at the structure.

No sub-surface investigation (beyond 6"-12" below ground surface at the limited locations where and if the soil immediately adjacent to the vertical surfaces of the abutments and wing walls was able to be removed with a hand shovel) was performed by Watts to investigate for suspect ACM or underground utilities in the immediate vicinity of the structure. The review of the historical bridge records did not identify any suspect ACM associated with or below the wearing surface (pavement, concrete, asphalt, etc.) and as a result, no coring was conducted to inspect beneath it.

No asbestos inspection can entirely eliminate the uncertainty regarding the potential for undiscovered ACM. The presence of hidden suspect ACM, inconsistencies with use of different construction products or inconsistencies within the mixture of a given product, or unforeseen circumstances associated with the assumptions made to the homogeneity of suspect ACM could potentially result in the existence of additional suspect ACM and/or the unknown presence of ACM. The inspection performed by Watts was conducted exercising all appropriate due diligence and was intended to reduce, but not eliminate, any uncertainty or confusion regarding the potential for ACM associated with the structure. The information obtained from the review of the historical record plans, field observations, and the laboratory analysis of the bulk samples collected was used to determine the presence or the absence of ACM, and if present, its quantity. The conclusions made during the completion of this inspection report used best professional judgement and sound industry practices, however no guarantees or warranties are made, nor implied.

This asbestos inspection report is not intended to be utilized as a bid document for an asbestos abatement scope of work. This report is intended to satisfy the requirements of NYS Code Rule 56-5 and the NYSDOT TEM for asbestos inspections.

### 5.0 / Conclusions and Recommendations

The following ACM was identified during this investigation:

- Dark Grey Sheet Packing (Pay Item 210.3312 Removal and Disposal of Bond Breaker/Filler ACM (BV14)
  Square Foot) Approximately 128 square feet (64 square feet each side) of dark grey sheet packing is
  located between the top of the abutments and the bottom of the deck slab at both ends of the bridge at
  BIN 1022640.
- Black Bearing Pad (Pay Item 210.3312 Removal and Disposal of Bond Breaker/Filler ACM (BV14) Square Foot) Approximately 237 square feet (27 total bearing pads at 8.78 square feet each) of black bearing pad is located between each metal bridge bearing and the concrete bearing pedestal at every bearing location at both bridge abutments and the center pier at BIN 1022640.
- Abutment / Retaining Wall Caulking (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14)
   Foot) Approximately 2,179 linear feet (545 square feet for NYSDOL reporting purposes) of asbestos containing caulking is located within the vertical expansion joints of the abutments / retaining walls
   throughout the Kensington project corridor.
- Rail Post Grey Caulk (Pay Item 210.3411 Removal and Disposal of Caulking ACM (BV14) Foot) Approximately 2,457 linear feet (~205 square feet for NYSDOL reporting purposes) of asbestos-containing grey caulking is located around the perimeter of the metal guild rail post base plates located on the retaining walls throughout the northern portion of the project corridor.

The following inaccessible/assumed ACM was identified during this investigation:



 Waterproofing – Item 61 – Bituminous Material (Pay Item 210.481201 Removal and Disposal of Miscellaneous ACM (BV14) Square Foot) – Approximately 234,486 square feet of this inaccessible/assumed ACM is associated with the back side of the abutments and retaining walls, counterforts, and top of footer piles throughout the project corridor.

If any ACM will be disturbed during the proposed bridge demolition or overall Kensington Expressway renovation project, the disturbance is considered an asbestos abatement project and must be conducted by a properly licensed asbestos abatement contractor in accordance with all applicable regulations. NYSDOL Blanket Variance 14 provides certain reliefs from the NYSDOL ICR 56 requirements provided the ACM remains in a non-friable condition. The development of asbestos-related NYSDOT Special Notes for use during construction will need to be completed as part of the design process. In addition, all persons involved with the bridge renovation or reconstruction should be made aware of the presence of ACM at this structure.

If any additional untested suspect ACM is identified during subsequent investigations or during construction, the materials must be sampled by certified personnel and analyzed for asbestos content by a certified laboratory.



### Asbestos Bulk Sample Summary Table

BIN 1022640 – E Ferry Street Bridge over Kensington Expressway (NYS Route 33) City of Buffalo, Erie County, New York P.I.N. 5512.52.123

### Identified asbestos-containing materials are in bold.

Bulk Sample Number	Type of Material	Bulk Sample Location	Results (Percent (%) Asbestos)
1022640-01	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022640-02	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022640-03	Grey Caulk at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022640-04	Joint Filler at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, South	None Detected
1022640-05	Joint Filler at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022640-06	Joint Filler at Pier Barrier Wall Joints	Center Pier Barrier Wall Joints, North	None Detected
1022640-07	Dark Grey Deck Expansion Joint Sealer	East Expansion Joint, South Side Sidewalk	None Detected
1022640-08	Dark Grey Deck Expansion Joint Sealer	East Expansion Joint, North Side Sidewalk	None Detected
1022640-09	Dark Grey Deck Expansion Joint Sealer	East Expansion Joint, North Side Sidewalk	None Detected
1022640-10	2" Fiber Conduit (DOT Item 412A)	Humboldt Parkway East Side, Lighting Buried Conduit	None Detected
1022640-11	2" Fiber Conduit (DOT Item 412A)	Humboldt Parkway East Side, Lighting Buried Conduit	None Detected
1022640-12	2" Fiber Conduit (DOT Item 412A)	Humboldt Parkway East Side, Lighting Buried Conduit	None Detected



# Appendix A

**Photos** 



Photo 1 – View towards the southeast of the E Ferry Street Bridge over Kensington Expressway (Route 33) (BIN 1022640). The retaining wall ACMs (expansion joint caulking and railing post caulking) are visible within the photo.



Photo 2 - View of the BIN plate located at the southwest corner of the E Ferry Street Bridge over Kensington Expressway (Route 33) (BIN 1022640).



Photo 3 - View to the south from the southwest corner of the E Ferry Street Bridge over Kensington Expressway (Route 33) (BIN 1022640), with the highway retaining walls and East Utica Street over Kensington Expressway Bridge (BIN 1022630) visible in the background.

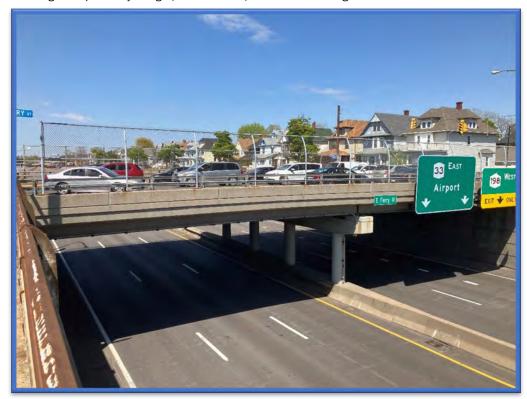


Photo 4 – View to the southern side of the E Ferry Street Bridge over Kensington Expressway (Route 33) (BIN 1022640).





Photo 5 – Asbestos-containing railing post base caulk located at the top of the retaining walls near BIN 1022640. This ACM is present throughout the northern portion of the project corridor.



Photo 6 – View of the southern side of the E Ferry Street Bridge over Kensington Expressway (Route 33) (BIN 1022640). Photo taken during the night-time inspection that occurred after closing the EB Kensington Expressway.





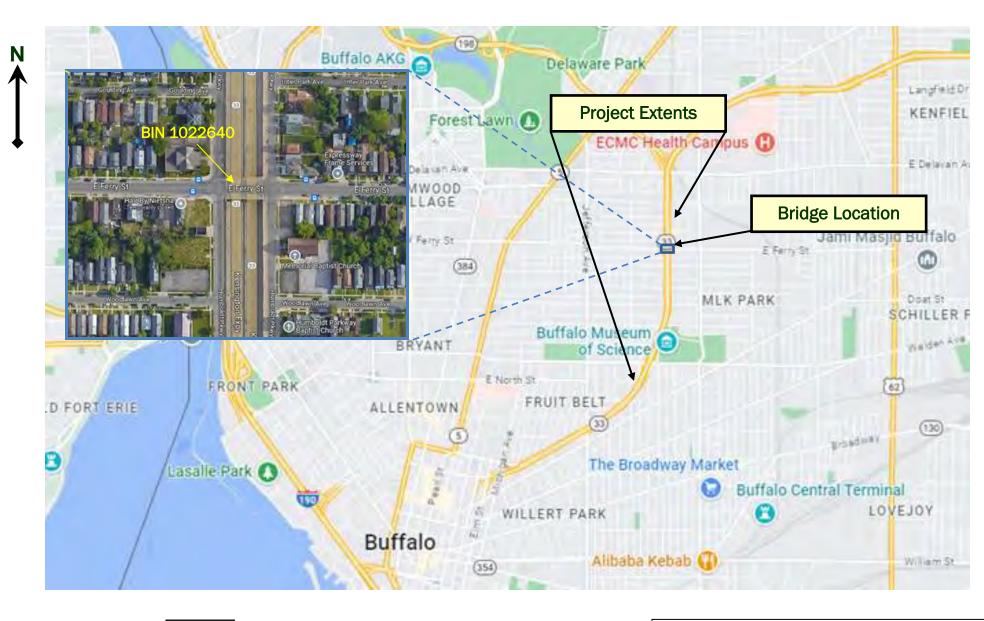
Photo 7 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

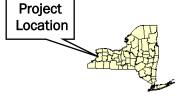


Photo 8 – Asbestos-containing railing post base caulk is associated with all of the metal guiderails located on top of the northern retaining walls. No asbestos-containing caulk is associated with the new decorative concrete guide rails located on top of the southern retaining walls.

# Appendix B

**Figures** 





Source: Google Maps 2023.

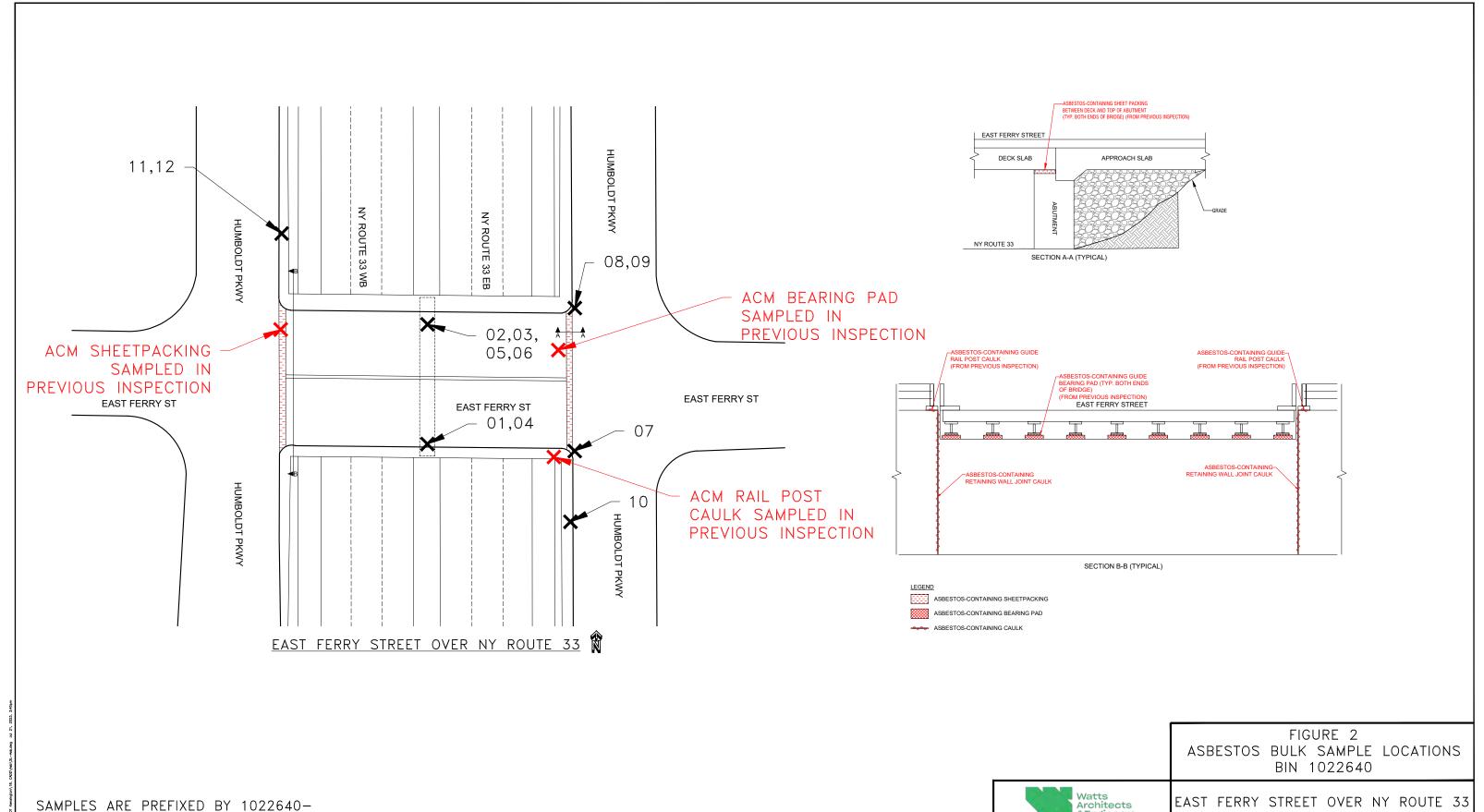


### FIGURE 1 - PROJECT LOCATION MAP

E Ferry Street over Kensington Expressway (Rt 33)
BIN 1022640
City of Buffalo, Erie County, New York

Not to Scale

June 2023



SAMPLES WERE COLLECTED ON MAY 3 AND 11, 2023. XINDICATES APPROXIMATE SAMPLE LOCATION SAMPLE NUMBERS IN RED WERE IDENTIFIED TO BE ACM

&Engineers 95 Perry Street, Suite 300 Buffalo, New York 14203 (716) 206-5100 | (716) 206-5199 Fax

CITY OF BUFFALO, NEW YORK

JULY 2023 NOT TO SCALE

### Appendix C

Laboratory
Analytical Report(s)
and
Chain-of-Custody Form(s)



Customer PO: Project ID:

Attention: Matthew Holquist Phone: (716) 206-5100

Watts Architecture & Engineering Fax: (716) 206-5199

95 Perry Street Received Date: 05/23/2023 3:36 PM Suite 300 Analysis Date: 05/30/2023 - 05/31/2023

Buffalo, NY 14203 Collected Date: 05/23/2023

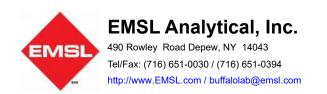
Project: 20220255 / PIN 5512.52, Kensington Rt 33, Buffalo, Erie Co., NY / BIN 1022640/East Ferry over Kensington

(Rt. 33)

### **Test Report: Asbestos Analysis of Bulk Material**

	Analyzed		N	on-Asbestos	
Test	Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID 10	22640-01	Description	Grey Caulk at Pier Barr	ier Wall Joints	
14	2302264-0001	Homogeneity	Homogeneous		
PLM NYS 198.1	Friable				Not Analyzed
PLM NYS 198.6	VCM				Not Analyzed
PLM NYS 198.6	NOB 05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4	NOB 05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 10	22640-02	Description	Grey Caulk at Pier Barr	ier Wall Joints	
14	2302264-0002	Homogeneity	Homogeneous		
PLM NYS 198.1	Friable				Not Analyzed
PLM NYS 198.6	VCM				Not Analyzed
PLM NYS 198.6	NOB 05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4	NOB 05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 10	22640-03	Description	Grey Caulk at Pier Barr	ier Wall Joints	
14	2302264-0003	Homogeneity	Homogeneous		
PLM NYS 198.1	Friable				Not Analyzed
PLM NYS 198.6	VCM				Not Analyzed
PLM NYS 198.6	NOB 05/30/2023	Brown/ Gray		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4	NOB 05/31/2023	Brown/ Gray		100.00% Other	None Detected
Sample ID 10	22640-04	Description	Joint Filler at Pier Barri	er Wall Joints	
14	2302264-0004	Homogeneity	Homogeneous		
PLM NYS 198.1	Friable				Not Analyzed
PLM NYS 198.6	VCM				Not Analyzed
PLM NYS 198.6	NOB 05/30/2023	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4	NOB 05/31/2023	Brown		100.00% Other	None Detected
Sample ID 10	22640-05	Description	Joint Filler at Pier Barri	er Wall Joints	
14	2302264-0005	Homogeneity	Homogeneous		
PLM NYS 198.1	Friable				Not Analyzed
PLM NYS 198.6	VCM				Not Analyzed
PLM NYS 198.6	NOB 05/30/2023	Brown		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4	NOB 05/31/2023	Brown		100.00% Other	None Detected

Initial report from: 05/30/2023 14:18:05



Customer PO: Project ID:

### **Test Report: Asbestos Analysis of Bulk Material**

Non-Asbestos Analyzed Non-Fibrous Color **Fibrous** Asbestos Test Date Sample ID 1022640-06 Description Joint Filler at Pier Barrier Wall Joints 142302264-0006 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/30/2023 Brown 100.00% Other Inconclusive: None Detected 05/31/2023 100.00% Other **TEM NYS 198.4 NOB** Brown None Detected Sample ID 1022640-07 Description Dark Gray Deck Expansion Joint Sealer 142302264-0007 Homogeneous Homogeneity PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/30/2023 Gray 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 100.00% Other **None Detected** Gray 1022640-08 Sample ID Dark Gray Deck Expansion Joint Sealer Description 142302264-0008 Homogeneous Homogeneity PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/30/2023 Brown/ Gray 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Brown/ Gray 100.00% Other **None Detected** Sample ID 1022640-09 Dark Gray Deck Expansion Joint Sealer Description 142302264-0009 Homogeneity Homogeneous PLM NYS 198.1 Friable Not Analyzed **PLM NYS 198.6 VCM Not Analyzed PLM NYS 198.6 NOB** 05/30/2023 Brown/ Gray 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Brown/ Gray 100.00% Other **None Detected** Sample ID 1022640-10 2" Fiber Conduit (DOT Item 412A) Description 142302264-0010 Homogeneous Homogeneity PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/30/2023 Brown/ Black 100.00% Other Inconclusive: None Detected **TEM NYS 198.4 NOB** 05/31/2023 Brown/ Black 100.00% Other **None Detected** 1022640-11 2" Fiber Conduit (DOT Item 412A) Sample ID Description 142302264-0011 Homogeneous Homogeneity PLM NYS 198.1 Friable **Not Analyzed PLM NYS 198.6 VCM** Not Analyzed **PLM NYS 198.6 NOB** 05/30/2023 Brown/ Black 100.00% Other Inconclusive: None Detected

100.00% Other

Initial report from: 05/30/2023 14:18:05

**TEM NYS 198.4 NOB** 

05/31/2023

Brown/ Black

None Detected



Customer PO: Project ID:

### Test Report: Asbestos Analysis of Bulk Material

	A	Analyzed		NC	on-Aspestos	
T	est	Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1022640-12		Description	2" Fiber Conduit (DOT I	tem 412A)	
	142302264-0012		Homogeneity	Homogeneous		
PLM NYS 1	98.1 Friable					Not Analyzed
PLM NYS 1	98.6 VCM					Not Analyzed
PLM NYS 1	<b>98.6 NOB</b> 0	5/30/2023	Brown/ Black		100.00% Other	Inconclusive: None Detected
TEM NYS 1	98.4 NOB 0	5/31/2023	Brown/ Black		100.00% Other	None Detected

Initial report from: 05/30/2023 14:18:05



Customer PO: Project ID:

### Test Report: Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

**Report Comments:** 

Sample Receipt Date: 5/23/2023 Sample Receipt Time: 3:36 PM
Analysis Completed Date: 5/30/2023 Analysis Completed Time: 1:54 PM

Analyst(s):

Tom Hanes PLM NYS 198.6 NOB (12

Samples reviewed and approved by:

Thomas M. Hanes

Tom Hanes TEM NYS 198.4 NOB (12)

Rhonda McGee, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 05/30/2023 14:18:05

142302264

Page:

2 Weeks

72 Hr.

96 Hr.

### **WATTS ARCHITECTS & ENGINEERS**

95 Perry Street, Buffalo, NY 14203

			ASBES	STOS BULK SAMPLE CHAIN-OF-CUS	STODY				
Client:	New York	State Depar		sportation / LaBella			Date:	5/23/23	
Project:		PIN 5512.52	2, Kensington	Rt 33, Buffalo, Erie Co., NY	Wa	tts Projec	ct No.:	20220255	
Building /	Location:	BIN 10226	40/East Fern	y over Kensington (Rt. 33)					
Contact:		Matt Hold	quist	at (716) 435-1724	Analysis Requested	d:	Turna	around Time Requeste	ed:
<b>Email Pre</b>	liminary Re	esults to:		mholquist@watts-ae.com	ELAP 198.1 (Friable PLM)	Х	24 Hr.	5 Day	
Mail Repo	ort & Invoic	e to:	Watts Arc	hitects & Engineers	ELAP 198.6 (NOB PLM)	X	48 Hr.	1 Week	X

ELAP 198.4 (NOB TEM)

Other (Specify)

Sample Number	Material Description	HM	Samula Lacation	Laboratory Results		
		Tilvi	Sample Location	PLM	TEM	
1022640-01	Grey Caulk at Pier Barrier Wall Joints	1	Center Pier Barrier Wall Joints, South			
1022640-02	Grey Caulk at Pier Barrier Wall Joints	1	Center Pier Barrier Wall Joints, North			
1022640-03	Grey Caulk at Pier Barrier Wall Joints	1	Center Pier Barrier Wall Joints, North			
1022640-04	Joint Filler at Pier Barrier Wall Joints	2	Center Pier Barrier Wall Joints, South			
1022640-05	Joint Filler at Pier Barrier Wall Joints	2	Center Pier Barrier Wall Joints, North			
1022640-06	Joint Filler at Pier Barrier Wall Joints	2	Center Pier Barrier Wall Joints, North			
1022640-07	Dark Gray Deck Expansion Joint Sealer	3	East Expansion Joint, South Side Sidewalk			
1022640-08	Dark Gray Deck Expansion Joint Sealer	3	East Expansion Joint, North Side Sidewalk			
1022640-09	Dark Gray Deck Expansion Joint Sealer	3	East Expansion Joint, North Side Sidewalk			
1022640-10	2" Fiber Conduit (DOT Item 412A)	4	Humbolt Parkway East Side, Lighting Buried Conduit			
1022640-11	2" Fiber Conduit (DOT Item 412A)	4	Humbolt Parkway West Side, Lighting Buried Conduit			
1022640-12	2" Fiber Conduit (DOT Item 412A)	4	Humbolt Parkway West Side, Lighting Buried Conduit			

Sampled By:	Matthew E. Holquist Mada & Holgary Date: 05/10/23 Time: 17:00	Received By:	Date:
Relinquished By:	Matthew E. Holquist Matthe Mate: 05/23/23 Time: 15 2	Received By:	Date:
Comments:	Stop at First Positive for each HM, with the exception to please and	lyze all HM4. Analyze NOB materials by TFM if Non-AC	M by PI M

HM= Homogeneous Material If Vermiculite is detected, cease analysis and contact the Watts contact for further instructions



# Appendix D

License(s)
And
Certification(s)



### New York State - Department of Labor

Division of Safety and Health License and Certificate Unit State Campus, Building 12 Albany, NY 12240

### ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C. Suite 300 95 Perry Street

Buffalo, NY 14203

FILE NUMBER: 12-68007 LICENSE NUMBER: 68007 LICENSE CLASS: RESTRICTED DATE OF ISSUE: 09/01/2022 EXPIRATION DATE: 09/30/2023

STREET, STREET

Duly Authorized Representative - Kevin Janik:

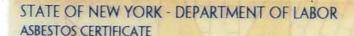
This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

SH 432 (8/12)

Amy Phillips, Director For the Commissioner of Labor









MATTHEW E HOLQUIST CLASS(EXPIRES) D INSP(02/24) I PD (02/24)

> CERT# 01-08239 DMV# 346423686

MUST BE CARRIED ON ASBESTOS PROJECTS



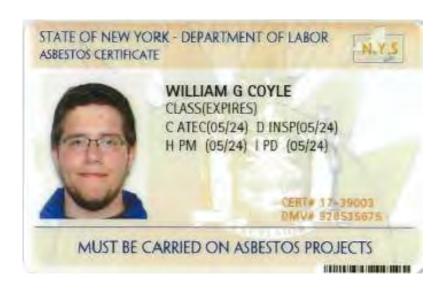
EYES BLU HAIR BLN HGT 5' 11" IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

### **Matthew E. Holquist**

D - Inspector

I - Project Designer







01213 006775315 25

EYES BRO HAIR BRO HGT 6' 00" IF FOUND RETURN TO: NYSDOL - L&C UNIT ROOM 161A BUILDING 12 STATE OFFICE CAMPUS ALBANY NY 12240

### William Coyle

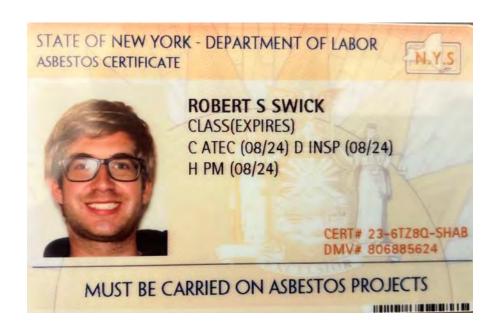
C - Air Sampling Technician

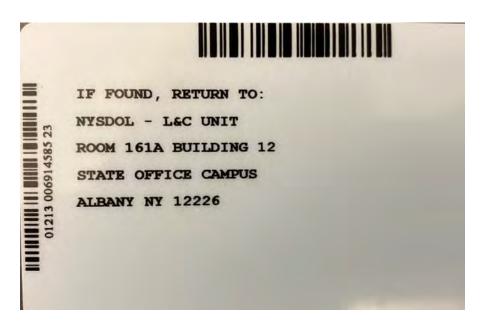
D - Inspector

H - Project Monitor

I - Project Designer







### **Robert Swick**

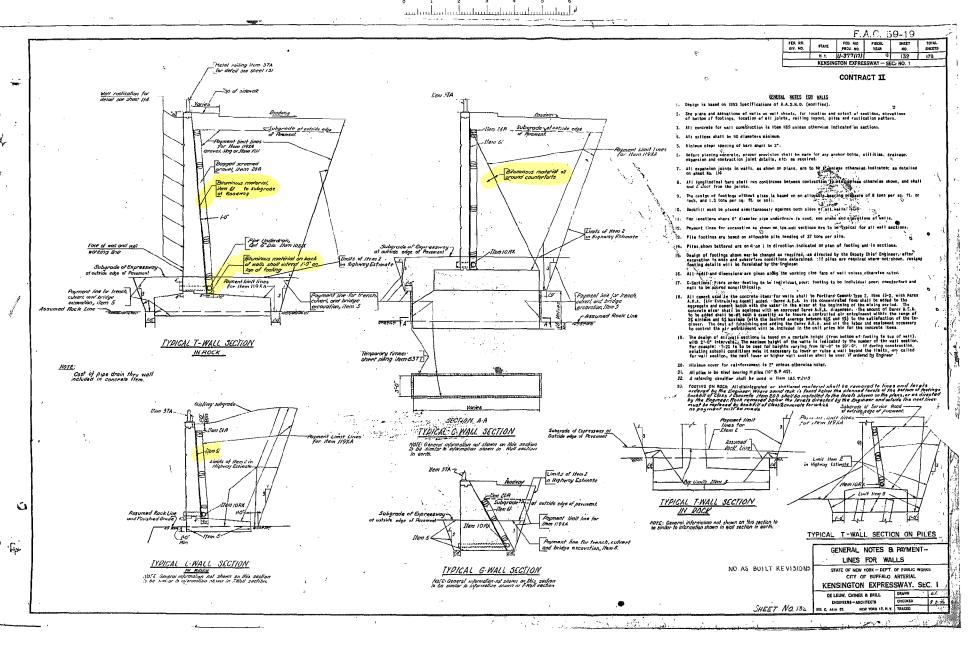
C - Air Sampling Technician

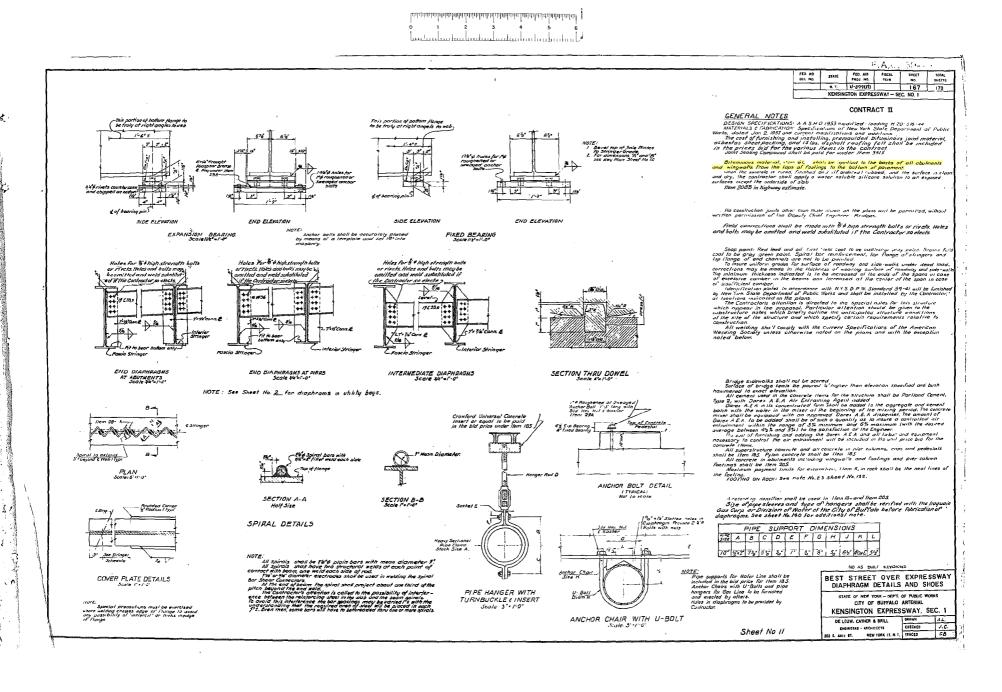
D - Inspector

H - Project Monitor

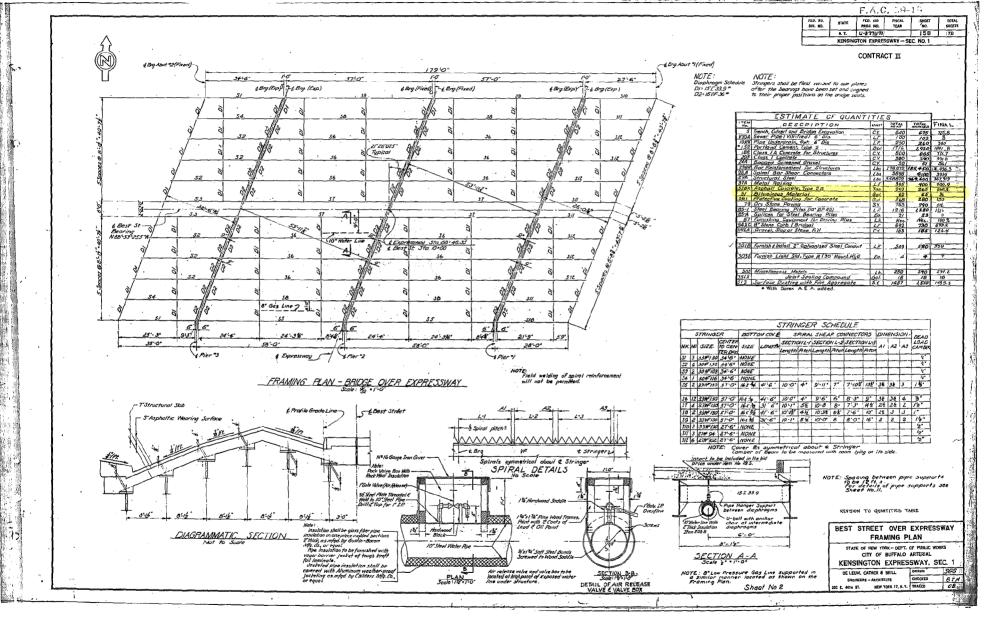
## Appendix E

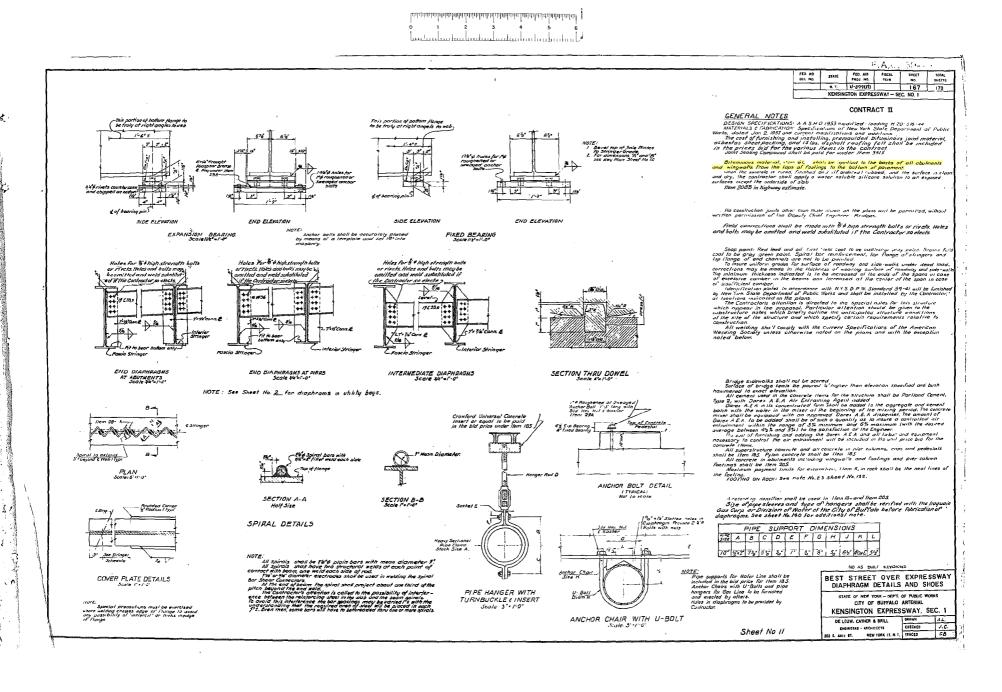
Previous ACM Report(s)
and
Asbestos-Related
Record Plan and
Project Information

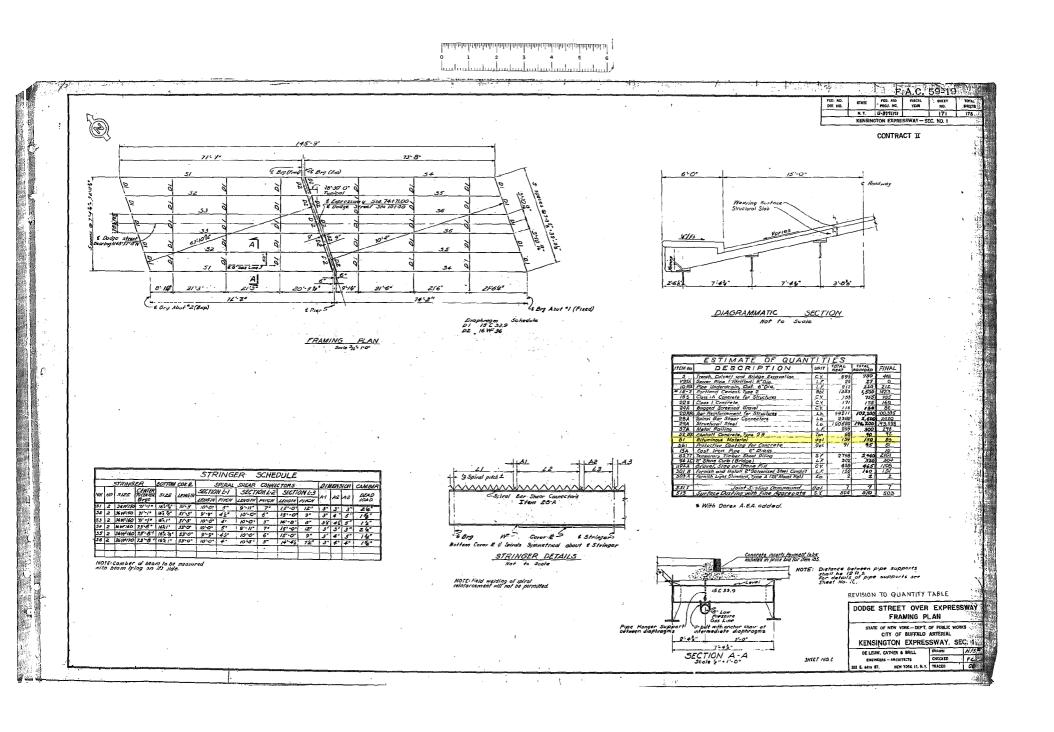


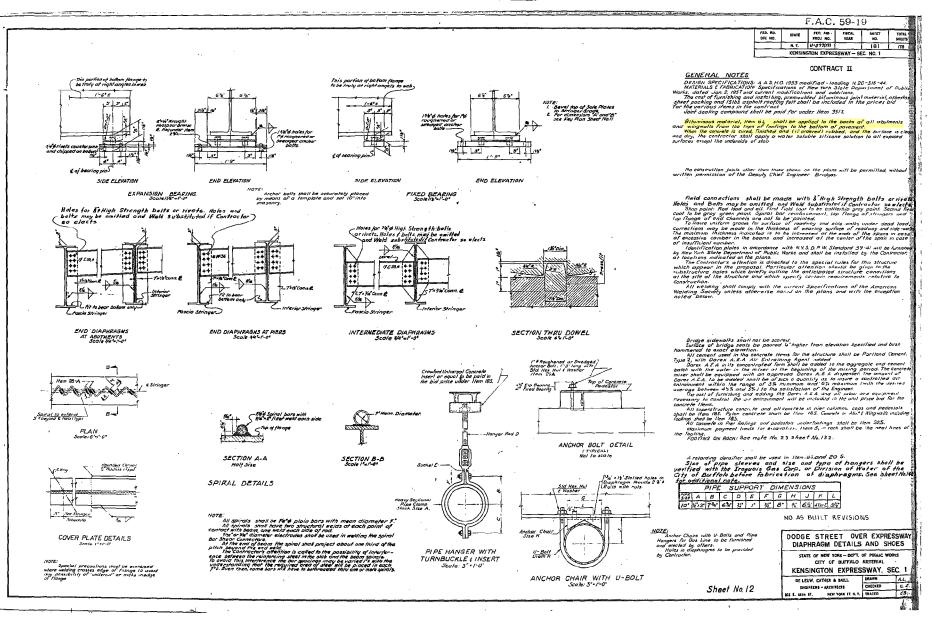


Later transministration described in the following of the later transmission of transmission of the later transmission of

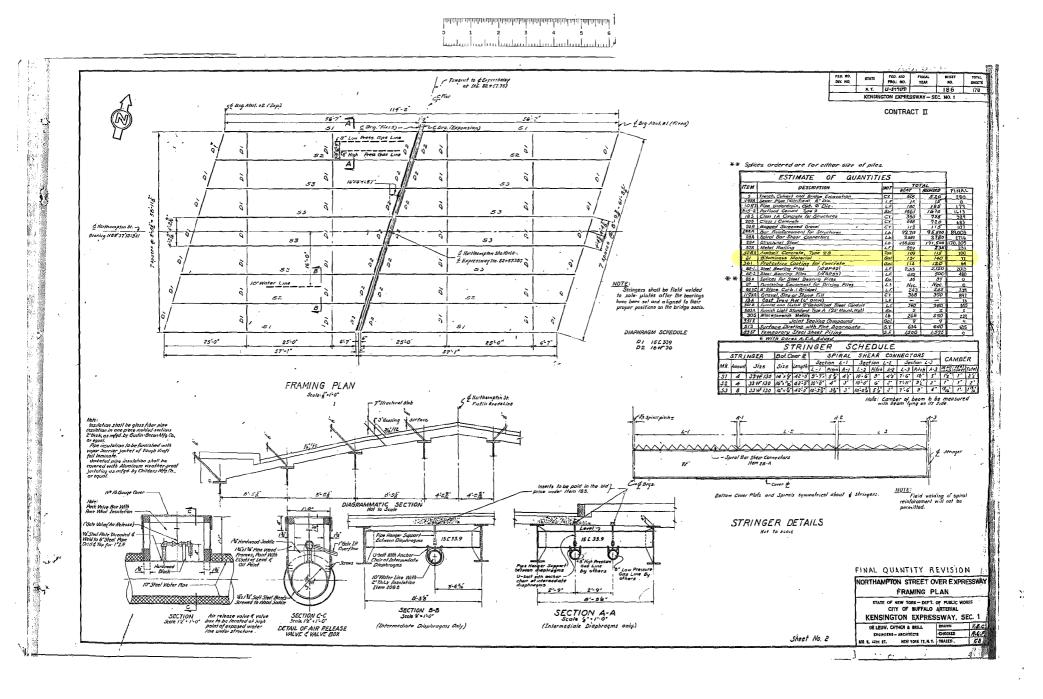


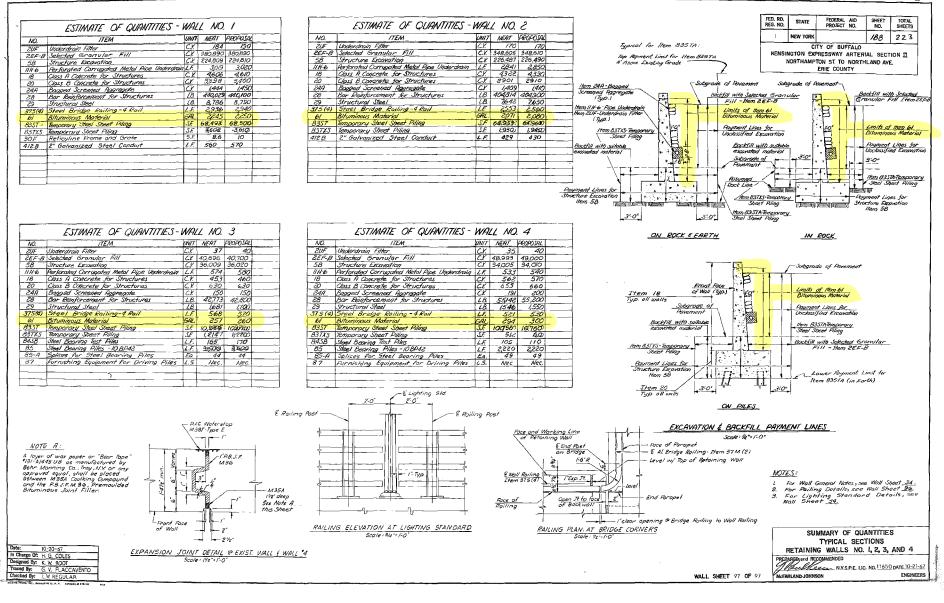


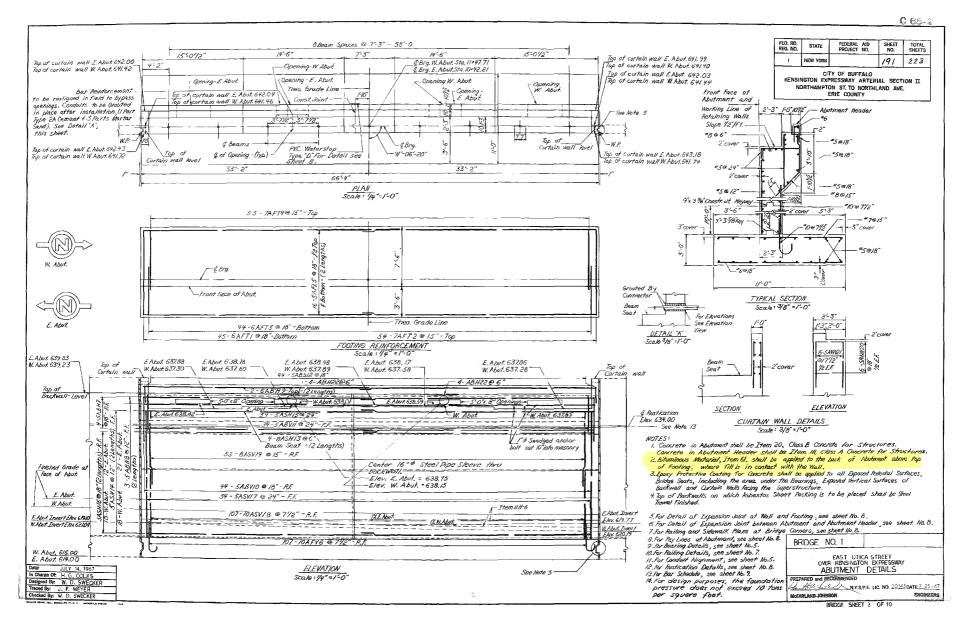


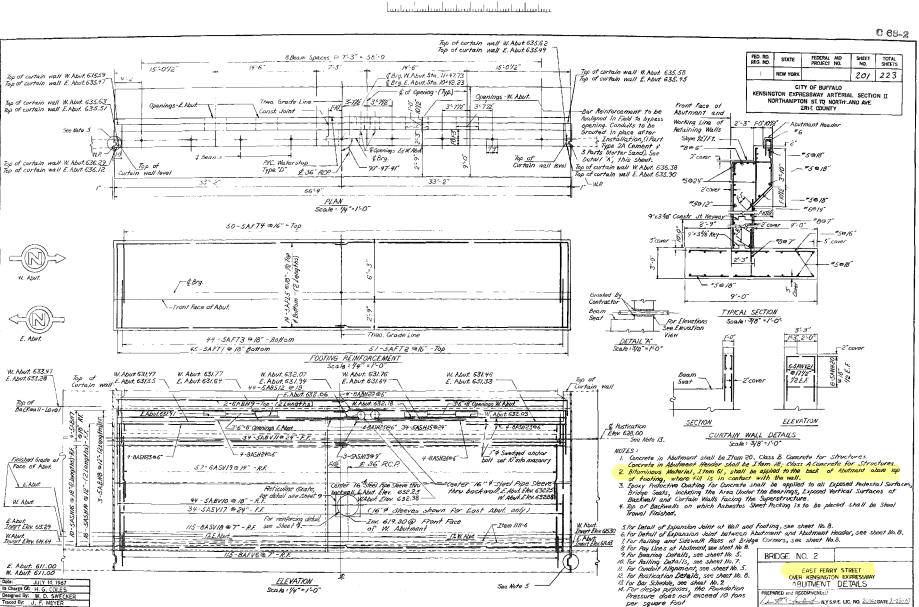


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E. Abut. 633,28

E. Abut

Checked By: W. D. SWECKER

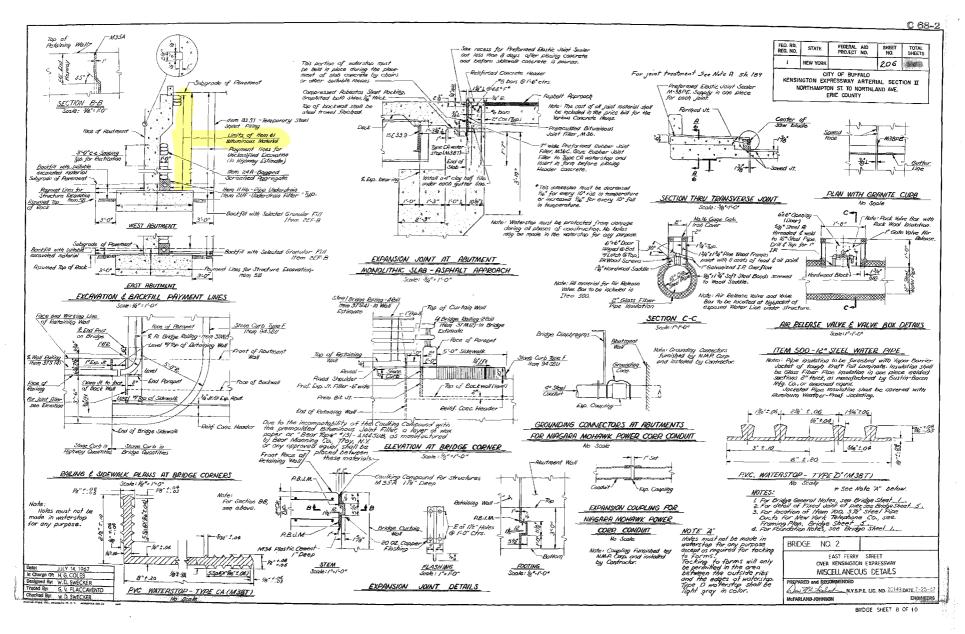
W. Abut

1 7 - 1 - 1 NYSPE LIC. NO. 20143 DATE 7-25-6 BRIDGE SHEET 3 OF 10

ENGINEERS

MEFARI AND JOHNSON

per square foot



### **ASBESTOS SURVEY REPORT**

Location: BIN 1022640
East Ferry Street Bridge over NY Route 33
City of Buffalo, Erie County, New York
PIN 5812.37.101

Prepared for:
New York State Department of Transportation



Prepared By:



175 Sully's Trail, Suite 202 Corporate Crossings Office Park Pittsford, New York 14534

January 2014

### **ASBESTOS SURVEY REPORT**

Location: BIN 1022640
East Ferry Street Bridge over NY Route 33
City of Buffalo, Erie County, New York
PIN 5812.37.101

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Appe	ndices	
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Appen	dix B	Licenses and Certifications
Appen	dix C	Laboratory Analysis Report and Chain of Custody
Appen	dix D	Previous Survey Report

### 1.0 Project Summary

In accordance with conditions of Term Agreement D030924, Lu Engineers conducted an asbestos sampling survey on the East Ferry Street Bridge over NY Route 33 (BIN 1022640) located in the City of Buffalo, Erie County, New York. Based on information obtained using the procedures described in Section 3.0 Inspection Procedures, the following summarizes the results of this investigation.

### BIN 1022640 – East Ferry Street Bridge over NY Route 33

### **Confirmed Asbestos-Containing Materials (ACMs)**

Based on laboratory analyses of bulk samples collected and records reviewed, the following materials were determined to contain asbestos:

Type of Material	Typical Location	Estimated Amount	Friability	Condition
Grey/Black Sheet Packing	Between Deck and Abutment at both ends of Bridge	128 SF	Non-Friable	Good
Black Bearing Pad	Between Bearing and Concrete Bearing Support	237 SF	Non-Friable	Good
Grey Caulking Compound	Beneath the Guiderail Base Plates	11 SF	Non-Friable	Good

SF – Square Foot

### **Inaccessible/Assumed ACMs**

Record plan review identified steel conduits buried in the concrete sidewalk along the north and south sides of BIN 1022640. Suspect asbestos sealing compound is typically located around the conduit expansion sleeves. The steel conduits and associated expansion sleeves were not observed during Lu Engineers December 5, 2013 site visit.

Record plan review identified an 8-inch gas line set in a 12-inch casing along the south side of BIN 1022640. Suspect asbestos tar coating is typically located on the outside of the gas main. The 12-inch casing was observed during Lu Engineers December 5, 2013 site visit and did not contain any suspect asbestos containing materials.

No other inaccessible/assumed ACMs were identified.

### 2.0 Site Description

The site is located in the City of Buffalo, Erie County, New York. For the purpose of this report, the site consists of BIN 1022640 – East Ferry Street Bridge over NY Route 33. The site is indicated on the attached Figure 1 – Site Location Map.

### 3.0 Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 5 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints, which might affect the removal of the ACM, were identified and reported.
- C. Bulk samples of suspected ACMs were collected during the site inspection of the subject structure. Samples were taken from each homogeneous area that may contain ACM. The investigation was limited to areas of the bridge that could be accessed from the bridge itself or reached from the ground and/or by use of a ladder from below. The approximate location of bulk samples is indicated on Figure 2, Asbestos Bulk Sample Location Plan.
- D. Samples were submitted for analysis. Preliminary polarized light microscopy (PLM) analyses of non-friable, organically bound (NOB) materials were performed by Paradigm Environmental Services, Inc., a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. Transmission electron microscopy (TEM) analyses of NOB materials, if necessary, were performed by Paradigm Environmental Services, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.
- F. An Asbestos Survey has been conducted on this bridge previously. The following Report was reviewed as part of this survey and pertinent results were incorporated:
  - Asbestos Sampling Survey prepared by LaBella Associates, P.C., dated October 2002.

Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by Lu Engineers to determine the presence of underground utilities on or in the immediate vicinity of the Site.

### 4.0 Results

### BIN 1022640 – East Ferry Street Bridge over NY Route 33

### **Confirmed Asbestos-Containing Materials (ACMs)**

### Sheet Packing

Asbestos-containing black sheet packing is located in the horizontal joint between the abutment and the bridge deck slab at both ends of the bridge. Most of this material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations.

It is estimated that the total amount of this asbestos-containing sheet packing material on the bridge is approximately 128 square feet. The approximate locations of this asbestos-containing sheet packing are shown in Figure 2.

### **Bearing Pad**

Asbestos-containing black bearing pads are located between the bearing and concrete bearing supports on both bridge abutments and the center pier supports.

It is estimated that the total amount of this asbestos-containing bearing pad material on the bridge is approximately 237 square feet. The approximate locations of the asbestos-containing bearing pads are shown in Figure 2.

### **Caulking Compound**

Asbestos-containing grey caulking compound located between the guiderail base plate and the concrete parapets on both sides of the bridge. Most of this material is presently covered by the base plates, although the portions of this caulking compound are exposed and visible at various locations.

It is estimated that the total amount of this asbestos-containing caulking compound material on the bridge is approximately 11 square feet. The approximate locations of this asbestos-containing caulking compound are shown in Figure 2.

### **Inaccessible/Assumed ACMs**

Record plan review identified steel conduits buried in the concrete sidewalk along the north and south sides of BIN 1022640. Suspect asbestos sealing compound is typically located around the conduit expansion sleeves. The steel conduits and associated expansion sleeves were not observed during Lu Engineers December 5, 2013 site visit.

It is estimated that the total amount of the sealing compound on the bridge is approximately 8 linear feet. The approximate locations of this sealing compound are shown in Figure 2.

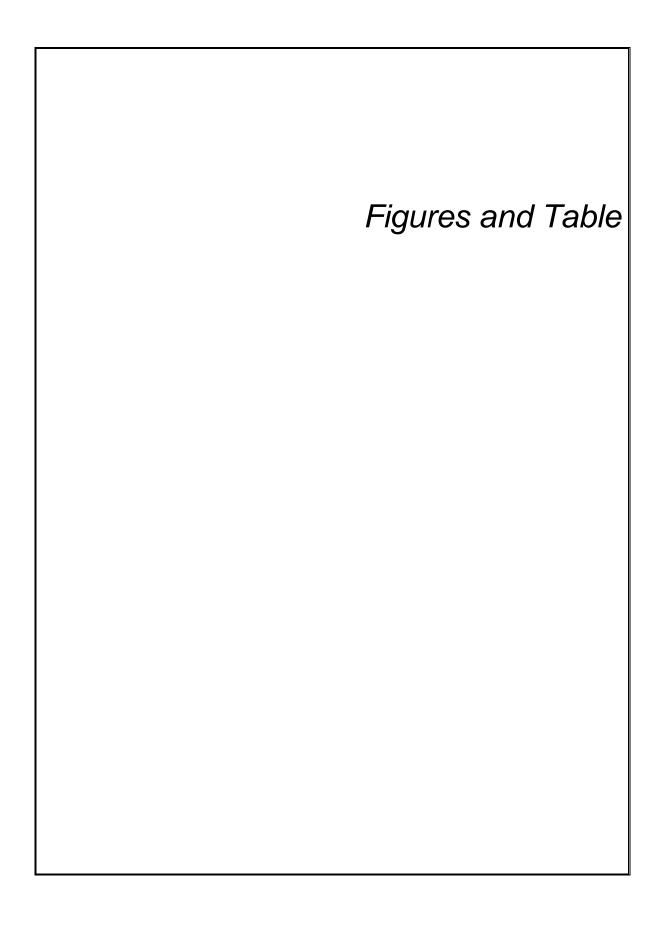
Record plan review identified an 8-inch gas line set in a 12-inch casing along the south side of BIN 1022640. Suspect asbestos tar coating is typically located on the outside of the gas main. The 12-inch casing was observed during Lu Engineers December 5, 2013 site visit.

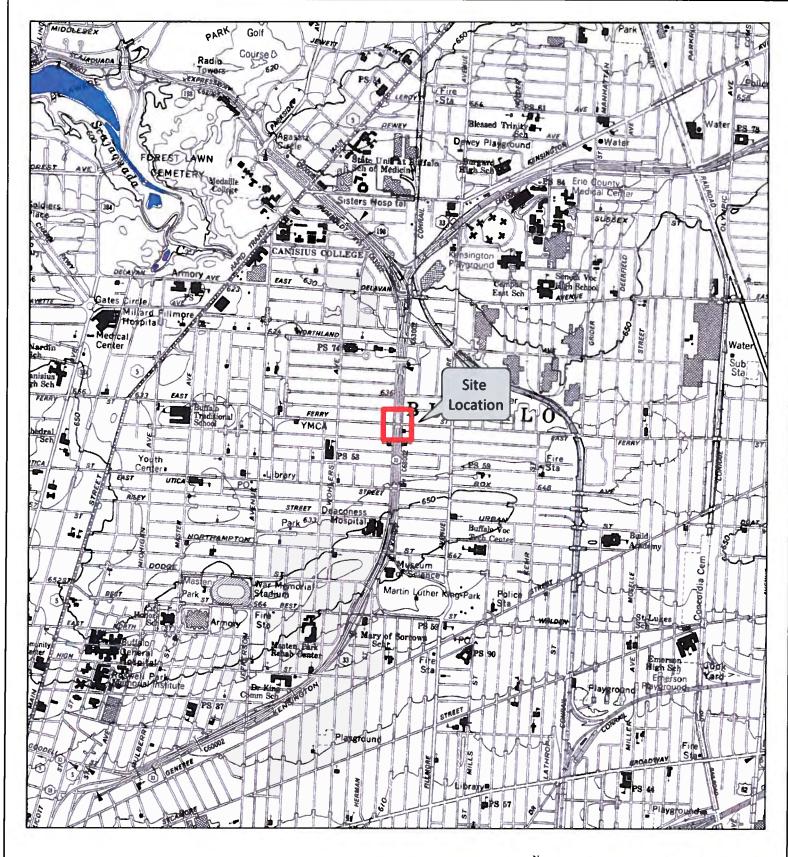
It is estimated that the total amount of the tar coating is approximately 106 linear feet. The approximate location of this gas line is shown in Figure 2.

No other inaccessible/assumed ACMs were identified.

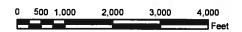
### Certification

Lu Engineers certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this report.





1 inch = 2,000 feet





PIN: 5812.37.101

New York Quadrangle Location



FIGURE 1 SITE LOCATION PLAN

**EAST FERRY STREET OVER NY ROUTE 33** 

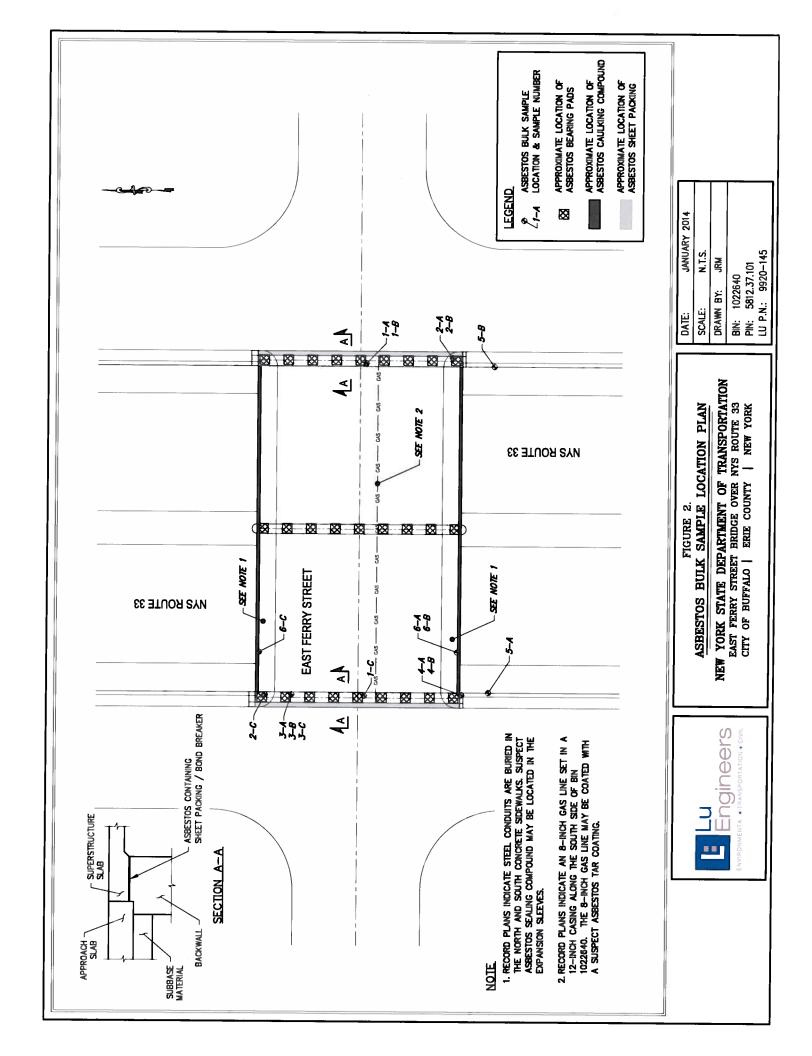
BIN: 1022640

CITY OF BUFFALO, ERIE COUNTY, NY

DATE: DECEMBER 2013

SCALE: 1 INCH = 2000 FEET DRAWN/CHECKED: SMK/MCS

DATA SOURCE: NYS DOT RASTER QUADRANGLE BUFFALO NE, ERIE CO., NY DOT EDITION DATE: 1978 USGS CONTOUR DATE: 1954



### **SAMPLE RESULTS**

### East Ferry Street Bridge over NY Route 33 City of Buffalo, Erie County, New York

### BIN 1022640

Sample #	Sample Location	Material Description	Results % Asbestos	Amount of Material	Specification Item
1-A	East Side of Bridge	Black Paper over Yellow Fiberglass Pipe Cover	None Detected	N/A	N/A
1-B	East Side of Bridge	Black Paper over Yellow Fiberglass Pipe Cover	None Detected	N/A	N/A
1-C	West Side of Bridge	Black Paper over Yellow Fiberglass Pipe Cover	None Detected	N/A	N/A
2-A	Southeast Corner of Bridge between Deck and Abutment	Grey Sheet Packing	28% Chrysotile	128 SF	210.3312
2-В	Southeast Corner of Bridge between Deck and Abutment	Grey Sheet Packing	Refer to Sample 2-A	Refer to Sample 2-A	Refer to Sample 2-A
2-C	Northwest Corner of Bridge between Deck and Abutment	Black Sheet Packing	Refer to Sample 2-A	Refer to Sample 2-A	Refer to Sample 2-A
3-A	West Bearing Pad	Black Bearing Pad	36% Chrysotile	237 SF	210.4812XX
3-В	West Bearing Pad	Black Bearing Pad	Refer to Sample 3-A	Refer to Sample 3-A	Refer to Sample 3-A
3-C	West Bearing Pad	Black Bearing Pad	Refer to Sample 3-A	Refer to Sample 3-A	Refer to Sample 3-A
4-A	Southwest Corner of Bridge	Grey Caulking	None Detected	N/A	N/A
4-B	Southwest Corner of Bridge	Grey Caulking	None Detected	N/A	N/A
5-A	Vertical Joint of Southwest Retaining Wall	Grey Caulk	None Detected	N/A	N/A
5-B	Vertical Joint of Southeast Retaining Wall	Grey Caulk	None Detected	N/A	N/A
6-A	South Side of Bridge in Parapet Joint	Grey Caulk	None Detected	N/A	N/A
6-B	South Side of Bridge in Parapet Joint	Grey Caulk	None Detected	N/A	N/A
6-C	North Side of Bridge in Parapet Joint	Grey Caulk	None Detected	N/A	N/A

N/A – Not Applicable

SF – Square Foot

APPENDIX A
Asbestos Survey Fact Sheet

### **Asbestos Survey Fact Sheet**

### Name and Address of Building/Structure:

East Ferry Street Bridge over NY Route 33 – BIN 1022640 City of Buffalo, Erie County, New York

### Name and Address of Building/Structure Owner:

New York State Department of Transportation 50 Wolf Road Albany, New York 12232

### Name and Address of Owner's Agent:

Lu Engineers 175 Sully's Trail, Suite 202 Pittsford, New York 14534

### Name of the Firm & Persons Conducting the Survey:

Lu Engineers Mitchell C. Smith (NYSDOL Cert. #97-15393) Steven R. Davis (NYSDOL Cert. # 11-13205)

### **Dates Surveys Were Conducted:**

December 5, 2013 January 9, 2014

### **List of Homogeneous Areas**

(Items in Bold Confirmed ACM, Italics Sampled by Others)

Black Paper over Yellow Fiberglass Pipe Covering

Grey Sheet Packing Black Bearing Pad

Grey Caulking (Bridge Joint) Grey Caulk (Retaining Wall) Grey Caulk (Parapet)

Grey Caulking Compound (under Guide Rail Base Plates, sampled by LaBella)

APPENDIX B License and Certifications	
	APPENDIX E
License and Certifications	
License and Certifications	
	License and Certification
	License and Serumeations

## New York State – Department of Labor Division of Safety and Health License and Certificate Unit

State Campus, Building 12 Albany, NY 12240

### **ASBESTOS HANDLING LICENSE**

Joseph C. Lu Engineering And Land Surveying, P.C. Suite 202

175 Sully's Trail

Pittsford, NY 14534

FILE NUMBER: 99-0907

LICENSE NUMBER: 29286

LICENSE CLASS: RESTRICTED DATE OF ISSUE: 01/17/2013 EXPIRATION DATE: 01/31/2014

Duly Authorized Representative - Susan Hilton:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving aspestos or aspestos material.

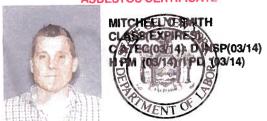
This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

SH 432 (8/12)

Eileen M. Franko, Acting Director For the Commissioner of Labor

### STATE OF NEW YORK - DEPARTMENT OF LABOR

**ASBESTOS CERTIFICATE** 



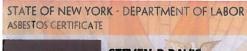
CERT# 97-15393 DMV# 992171375

MUST BE CARRIED ON ASBESTOS PROJECTS



EYES GRN
HAIR BRO
HGT 5' 08"

IF FOUND RETURN TO: NYSDOL - L&C UNIT ROOM 161A BUILDING 12 STATE OFFICE CAMPUS ALBANY NY 12240





STEVEN R DAVIS CLASS(EXPIRES) C ATEC(07/14) D INSP(07/14) H PM (07/14)

PERT# 11-13205

MUST BE CARRIED ON ASBESTOS PROJECTS



EYES GRN
HAIR BRO
HGT 6' 01"

IF FOUND RETURN TO: NYSDOL - L&C UNIT ROOM 161A BUILDING 12 STATE OFFICE CAMPUS ALBANY NY 12240

### NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER



Expires 12:01 AM April 01, 2014 Issued April 01, 2013

### CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. BRUCE HOOGESTEGER PARADIGM ENVIRONMENTAL SERVICES INC 179 LAKE AVENUE ROCHESTER, NY 14608

NY Lab Id No: 10958

is hereby APPROVED as an Environmental Laboratory for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE All approved subcategories and/or analytes are listed below:

### Miscellaneous

Asbestos in Friable Material

EPA 600/M4/82/020

Item 198.1 of Manual

Asbestos in Non-Friable Material-PLM

Item 198.6 of Manual (NOB by PLM)

Asbestos in Non-Friable Material-TEM

Item 198.4 of Manual

Lead in Dust Wipes

**EPA 6010B** 

Lead in Paint

EPA 6010B

**Sample Preparation Methods** 

APP. 14.2, HUD JUNE 1995

**EPA 3050B** 

Serial No.: 48478

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

APPENI	DIX C
Laboratory Analysis Repo	



### PLM & TEM BULK ASBESTOS REPORT

 Client:
 Lu Engineers
 Job No: 13991-13

 Location:
 NYSDOT, PIN 5812.37.101, BIN 1022640
 Page: 1 of 2

E. Ferry Street Bridge over NY Route 33, Buffalo, New York

**Sample Date:** 12/5/2013

<u> </u>				PLM Asbestos	PLM	N	TEM Asbestos	TEM	PLM	Non-
		ł		Fibers Type &	Total	0	Fibers Type &	Total	Non-Asbestos	Fibrous
Client ID	Lab ID	Sampling Location	Description	Percentage	Asbestos	В	Percentage	Asbestos	Fibers Type &	Matrix
}	i								Percentage	Material
			_						L	%
1-A	94941	East Side of Bridge	Black/Yellow	Inconclusive	0%		None Detected	<1.0%	Mineral Wool 40%	S0%
			Fibrous Pipe	No Asbestos		V			Fiberglass 10%	
	ļ		Covering	Detected						
1-B	94942	East Side of Bridge	Black/Yellow	Inconclusive	0%		None Detected	<1.0%	Mineral Wool 40%	50%
	1		Fibrous Pipe	No Asbestos		V.			Fiberglass 10%	
			Covering	Detected		]				
1-C	94943	West Side of Bridge	Black/Yellow	Inconclusive	0%		None Detected	<1.0%	Mineral Wool 40%	60%
			Fibrous Pipe	No Asbestos		V				
			Covering	Detected						
2-A	94944	SE Corner of Bridge	Gray Fibrous Sheet	Chrysotile 28%	28%		Not Required	N/A	None Detected	72%
	ĺ	Between Deck &	Packing		ĺ					l .
		Abutment								
2-B	9494S	SE Corner of Bridge	Gray Sheet Packing	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
		Between Deck &								
		Abutment								
2-C		NW Corner of Bridge	Black Sheet Packing	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
		Between Deck &				V				
		Abutment								
3-A	94947	West Bearing	Black Fibrous	Chrysotile 36%	36%		Not Required	N/A	None Detected	64%
			Bearing Pad			V				
3-B	94948	West Bearing	Black Bearing Pad	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
						V				
3-C	94949	West Bearing	Black Bearing Pad	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
						<b>V</b>				
4-A	94950	SW Corner of Bridge	Gray Caulk	Inconclusive	0%		None Detected	<1.0%	None Detected	100%
				No Asbestos		<b>V</b>				
				Detected						

NYLAP

V This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite. PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 2000530-0), New York State Department of Health, ELAP Method 198.1,198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

√ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

# denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

\*\* Polarized-light mlcroscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. *Quantitative transmission electron microscopy* is currently the only method that can be used to determine if this

material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 12/9/2013

TEM Date Analyzed: 12/10/2013

Mlcroscope:

Olympus BH-2 #233173

TEM Analyst: J. Peter Donato

Analyst:

F. Weinman

and analysts' and precision) is available upon request.

Laboratory Results Approved By: Asbestos Technical Director

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory

**ELAP ID No.: 10958** 

13441-15 13441-15 1847-1666

## **Bulk Sample Chain of Custody**

				) ) )
Project Name: NYSDC	NYSDOT – PIN 5812.37.101	Lu Project # 9920-145	20-145	
Site Address: BIN 1022640 - E. Ferry St. Bridge Buffalo, New York		over NY Rte 33 Laboratory Name:	,	Paradigm Environmental Services
Results to:	Sample Type	Laboratory Address:	_	179 Lake Avenue
			Roc	Rochester, New York
Lu Engineers	X NYS ELAP PLM/TEM	Turn Around Time		Comments:
175 Sullys Trail, Suite 202	□ PLM Only	Immediate	] 12 HR	
Pittsford, NY 14534	☐ I EM Only	☐ 24 HR [	☐ 48 HR	SIOP POSITIVE - EXCEPT FOR PAINT::
Email: sue-hilton@luengineers.com, msmith@luengineers.com	lith@luengineers.com	X 72 HR	☐ 5 Day	

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
<u> </u>	Encres of Brian	P. P. Co) F. R.	14649 STEE GUTGH
, la	:	1, 1,	246 " "
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2.2			S46
7-2	De Consin of Bring	=	946
Ÿ.	Spirit Biggs	12 500 J. 1200	£ħ6
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М-С	11		646
4.4	So Cerson of Brisse	Girsy Smulk	Special and Sients
Date Sampled:	:pa: 12   \subseteq  \subseteq   \subseteq   \subseteq  \qua	Relinquished By WW	Sm 12/10/13 Date/Time 12/2/2013

175 Sullys Trail, Suite 202, Pittsford, NY 14534 | Ph 585.385.7417 | Fax 585.385.3741 | Iuengineers.com

Inspector: \_

Received By

Date/Time 105



### <u>PLM & TEM BULK ASBESTOS REPORT</u>

**Client:** Lu Engineers Job No: 13992-13

Location:

NYSDOT, PIN 5812.37.101, BIN 1022640

Page: 1 of 2

E. Ferry Street Bridge over NY Route 33, Buffalo, New York

Sample Date: 12/5/2013

Sample B	<del>-</del>	12/3/2013	1	T		_				
		1		PLM Asbestos			TEM Asbestos	TEM	PLM	Non-
				Fibers Type &		0	Fibers Type &	Total	Non-Asbestos	Fibrous
Client ID	Lab ID	Sampling Location	Description	Percentage	Asbestos	В	Percentage	Asbestos	Fibers Type &	Matrix
	l								Percentage	Material
										%
4-B	94951	SW Corner of Bridge	Gray Caulk	Inconclusive	0%		None Detected	<1.0%	None Detected	100%
				No Asbestos		V				
				Detected		-				
						$\vdash$				
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**V** This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite. PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 2000530-0), New York State Department of Health, ELAP Method 198.1,198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

 $\sqrt{\mathsf{NOB}}$  (non-friable organically bound) Classified for Analytical Purposes Only.

# denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

\*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.  $\underline{\textit{Quantitative transmission electron microscopy}}$  Is currently the only method that can be used to determine if this

material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 12/9/2013

TEM Date Analyzed: 12/10/2013

TEM Analyst: J. Peter Donato

Microscope: Analyst:

F. Weinman

Laboratory Results Approved By:

**Asbestos Technical Director** Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory

13992-13 12/10/2013

**ELAP ID No.: 10958** 

Olympus BH-2 #233173

and analysts' and precision) is available upon request.

21-28-61 Sieven

# **Bulk Sample Chain of Custody**

Project Name:	NYSDOT – PIN 5812.37.101	Lu Project # 9920-145	X 48
Site Address: BIN 1022640	BIN 1022640 – E. Ferry St. Bridge over NY Rte 33 Buffalo, New York	Laboratory Name: Pa	Paradigm Environmental Services
Results to:	Sample Type	Laboratory Address: 1	179 Lake Avenue Rochester, New York
Lu Engineers 175 Sullys Trail, Suite 202 Pittsford, NY 14534	⊠ NYS ELAP PLM/TEM  □ PLM Only  □ TEM Only	Turn Around Time  Immediate 12 HR	Comments: STOP POSITIVE - EXCEPT FOR PAINT!!
3mail: sue-hilton@luengineers.com, msmith@luengineers.com	s, msmith@luengineers.com		

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
4. N	50 Corose 7 13.5.2015	רומבא לשחייב	94951
			81/01/61 W.3

175 Sullys Trail, Suite 202, Pittsford, NY 14534 | Ph 585.385.7417 | Fax 585.385.3741 | Iuengineers.com

Date/Time D

Date/Time 17

Relinquished By

Date Sampled:

Inspector:

Received By\_



### PLM & TEM BULK ASBESTOS REPORT

 Client:
 Lu Engineers
 Job No: 0246-14

 Location:
 NYSDOT, PIN 5812.37.101, BIN 1022640
 Page: 1 of 2

E. Ferry Street Bridge over NY Route 33, Buffalo, New York

**Sample Date:** 1/9/2014

Sample D		1/3/2014								
			-	PLM Asbestos	PLM	N	TEM Asbestos	TEM	PLM	Non-
				Fibers Type &	Totai	0	Fibers Type &	Totai	Non-Asbestos	Fibrous
Client iD	Lab ID	Sampling Location	Description	Percentage	Asbestos	В	Percentage	Asbestos	Fibers Type &	Matrix
									Percentage	Materiai
										%
5-A	1613	SW Retaining Wall	Gray Caulk	inconclusive	0%	Г	None Detected	<1.0%	Nono Detected	100%
				No Asbestos Detected		۷				
5-B	1614	SE Retaining Wall	Gray Caulk	inconclusive	0%		None Detected	<1.0%	None Detected	100%
:				No Asbestos Detected		۷				
6-A	1615	South Side of Bridge	Gray Caulk	inconclusive	0%		None Detected	<1.0%	None Detected	100%
				No Asbestos Detected		٧				
6-B	1616	South Side of Bridge	Gray Caulk	Inconclusive	0%		None Detected	<1.0%	None Detected	100%
				No Asbestos Detected		V				
6-C	1617	North Side of Bridge	Gray Caulk	inconclusive	0%		None Detected	<1.0%	None Detected	100%
				No Asbestos Detected		V				
						Ц				
						H				

Lab Code 200530-0 for Pl.M Analysis

Microscope:

V This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite. PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 2000530-0), New York State Department of Health, ELAP Method 198.1,198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

 $\sqrt{\mathsf{NOB}}$  (non-friable organically bound) Classified for Analytical Purposes Only.

# denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

\*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. *Quantitative transmission electron microscopy* is currently the only method that can be used to determine if this

material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 1/10/2014

Olympus BH-2 #232953

Analyst: J. Peter Donato

TEM Date Analyzed: 1/10/2014

TEM Analyst: F. Welpman

Laboratory Results Approved By:
Asbestos Technical Director

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National institute of Standards and Technology Accreditation requirements mandate thet this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality cootrol data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.

**ELAP ID No.: 10958** 

Lu III

## **Bulk Sample Chain of Custody**

Project Name:	NYSDO.	NYSDOT - PIN 5812.37.101	Lu Project # 9920-145	-145
Site Address:	BIN 1022640 – E. F. Buf	BIN 1022640 - E. Ferry St. Bridge over NY Rte 33 Buffalo, New York	Laboratory Name:	Paradigm Environmental Services
Results to:		Sample Type	Laboratory Address:	s: 179 Lake Avenue Rochester, New York
Lu Engineers 175 Sullys Trail. Suite 202	Suite 202	⊠ NYS ELAP PLM/1'EM □ PLM Oaly	Turn Around Time	Comments:
Pittsford, NY 14534	534	□ TEM Only	- L	STOP POSITIVE - EXCEPT FOR PAINT!!
Email: sue-hilton@	Email: sue-hilton@luengineers.com, msmith@luengineers.com	h@luengineers.com	X 72 HR □	□ 5 Day
				37) C On.
T U LA	SAMP	SAMPLEYOCATION	MATTER	( Ped ) NOTES

FIELD ID	SAMPLE LOCATION	MATERIAL COOL OF (PC)	( He ) Kain NOTES
4-8	So the day of British		)Sohb
Ų. Ā	52 RETAINING DAW	Gray Coure	VERTICAL JOIST
ال ال	55 78-TOINING	n n	11
<u>6</u> -4	20178 A = = 12 HT-1002	Graze CAUNK	Parm per
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J-9	100 175 A 30,2 LT3.00	-: -: -: -: -: -: -: -: -: -: -: -: -: -	=
Date Sampled: Inspector:	led: 1 - 9 - 14 - 5 - 5 - 12	Received By Now	Date/Time 17 17 72 72 72 72 72 72 72 72 72 72 72 72 72
		175 Sullys Trail, Suite 202, Pittsford, NY 14534   Ph 585.385.7417   Fax 585.385.3741   Iuengineers.com	19   14   1 moss
			-

\Lambda DDI	ENDIX D
Previous Surve	v Report
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### **Asbestos Sampling Survey**

Location:

Selected Section of Retaining Walls and Associated Bridges Along Route 33 City of Buffalo, New York.

Prepared for:

New York State Department of Transportation

PIN 5512.41.102

LaBella Project No. 201001

October 2002

CC: Mehe Christner, 5LA Dave Hill, Job Design Manager

### **Asbestos Sampling Survey**

### Location:

Selected Section of Retaining Walls and Associated Bridges Along Route 33 City of Buffalo, New York.

Prepared for:

New York State
Department of Transportation

PIN 5512.41.102

LaBella Project No. 201001

October 2002

LaBella Associates, P.C. 300 State Street Rochester, New York 14614-1098

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Figure and Table

### I. Project Summary

In accordance with conditions of Term Agreement D012606, LaBella Associates, P.C. conducted an asbestos sampling survey of a selected section of poured concrete retaining walls and selected areas of associated bridges along Route 33 (the Kensington Expressway) in the City of Buffalo, New York.

Based on laboratory analyses of bulk samples collected, the following materials were determined to contain asbestos:

Type of Material	Estimated Amount
Joint Sealer	612.3 Meters
Caulking Compound	772.4 Meters

### II. Site Description

The Site is located in Erie County, New York. For the purpose of this report, the Site consists of a selected section of poured concrete retaining walls along Route 33 (the Kensington Expressway) in the City of Buffalo, New York. Also included are selected areas of the following associated bridges:

- Northampton Street over Route 33 BIN 1022620
- East Utica Street over Route 33 BIN 1022630
- East Ferry Street over Route 33 BIN 1022640

See FIGURE 1 for approximate site location limits.

### III. Inspection Procedures

The following procedures were used to obtain the data for this Report:

- A. A visual inspection of the above referenced structures was conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structures, and an estimate of the approximate amount, length, or area of ACM present. Record drawings were not reviewed as a part of this report.
- B. Physical or operational constraints, which might affect the removal of the ACM, were identified and reported.
- C. Bulk samples of suspected ACM were collected during the site inspection of the subject structures. Samples were taken from each homogeneous area that may contain ACM.
- D. Samples were submitted for analysis. Preliminary PLM analyses of NOB materials were performed by LaBella Laboratories, a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. TEM analyses of NOB materials, if necessary, were performed by AMA Analytical, Inc.

E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.

Only areas expected to be impacted by the upcoming renovation project were inspected. No investigation was conducted by LaBella Associates to determine the presence of underground utilities on or in the immediate vicinity of the Site. Results of bulk sample analyses are tabulated in the Bulk Sample Results Table.

### IV. Results

Based on the analytical results, the following materials were determined to be asbestos-containing:

### Joint Sealer

Asbestos-containing joint sealer is located in the vertical expansion joints of the retaining walls throughout the project corridor. Generally speaking, the joint sealer in the retaining walls to the north of the Utica Street bridge is intact and in good condition, while the joint sealer to the south of the bridge is weathered and in fair condition. The total amount of joint sealer within the project corridor is estimated to be approximately 612.3 meters. This estimate is based on visual observations made at the time of the site visit.

### **Caulking Compound**

Asbestos-containing caulking compound is located in the following areas:

- Around the base plates of most of the guide railings and light poles along the retaining walls
- Around the base plates of the guide railings on the East Ferry Street Bridge

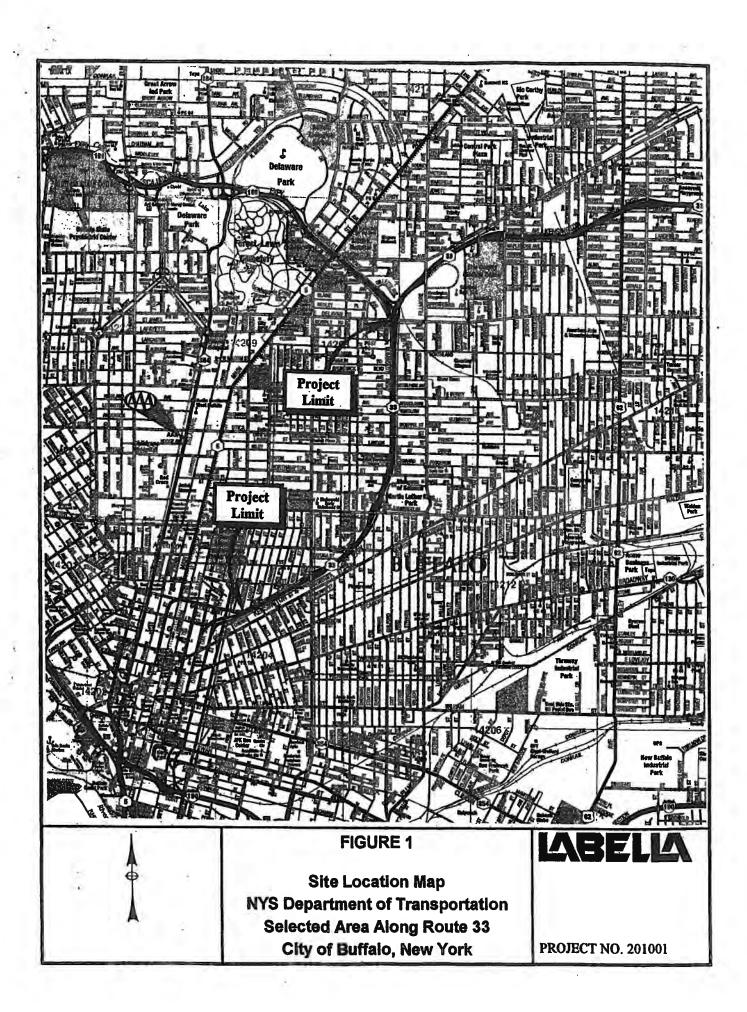
Generally speaking, most of this caulking compound is intact and in good condition. The total amount of caulking compound within the project corridor is estimated to be approximately 772.4 meters. This estimate is based on visual observations made at the time of the site visit.

### Certification

LaBella Associates, P.C. certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this investigation.

R2J29RR1

## Figure & Table



### **Bulk Sample Results Table**

### Asbestos Sampling Survey Selected Area Along Route 33 City of Buffalo, New York LaBella Project # 201001 PIN 5512.41.102

Sample#	Sample Location	Type of Material	Results % Asbestos	Specification Item No.
5512.41-1	Expansion Joint in Retaining Wall by Cherry Street	Black Joint Sealer	28% Chrysotile	210.9911 M (BV-12)
5512.41-2	Expansion Joint in Retaining Wall by Cherry Street	Brown Joint Filler	None Detected	N/A
5512.41-3	Expansion Joint in Retaining Wall by Cherry Street	Gray Joint Sealer	26% Chrysotile	Same as Sample No. 1
5512.41-4	Expansion Joint in Retaining Wall by Girard Place	Light Gray Joint Sealer	68% Chrysotile	Same as Sample No. 1
5512.41-5	Base of Guide Rail on Retaining Wall by Girard Place	Light Gray, Rubbery Caulking Compound	15% Chrysotile	210.5431 M (BV-12)
5512.41-6	Base of Guide Rail on Retaining Wall by Woeppel St.	Light Gray, Rubbery Caulking Compound	29% Chrysotile	Same as Sample No. 5
5512.41-7	Expansion Joint in Retaining Wall by Delavan Ave.	Black Joint Sealer	None Detected	N/A
5512.41-I	Base of Guide Rail on East Ferry Street Bridge	Gray, Hard Caulking Compound	14% Chrysotile	Same as Sample No. 5
5512.41-П	Expansion Joint in Retaining Wall on E. Ferry St. Bridge.	Gray, Rubbery Caulking Compound	None Detected	N/A