OHIO DEPARTMENT OF TRANSPORTATION

Asbestos Inspection Reporting Form

Date: 01-10-2025

County: Summit

Route: Interstate Route 277 Bridge over I-77

Section: Interstate Route 277 over I-77 in Akron, Summit County, Ohio

PID: 121479

Requesting ODOT District Office: District Four

Regulating OEPA District Office and Address

OEPA/DAPC
Northeast District Office
2110 E. Aurora Road
Twinsburg, Ohio 44087

Date of the Asbestos Inspection: 12-16-2024

Name and Address of the company conducting the asbestos inspection

ms consultants, inc.

333 E. Federal Street

Youngstown, Ohio 44530

Brian K. Fischer, ES 3301

Name, signature, and asbestos hazard evaluation number of the person writing the report

Description sampling locations and how each location was determined (use additional pages if needed)

ms consultants, inc., performed a pre-demolition/renovation asbestos survey of the SUM-Interstate Route 277 bridge carrying I-277 over Interstate Route 77 in Akron, Summit County, Ohio (Structure Number 7709811). The bridge structure is comprised of reinforced concrete deck on steel beams. The existing bridge was constructed in 1968 and has not undergone any major reconstruction.

The bridge structure inspection was conducted on December 16, 2024. The asbestos survey was conducted as a preliminary task to the future renovation of the bridge structure. The purpose of the asbestos survey was to determine if any suspect friable building materials used in the construction of this structure, contain asbestos.

ASBESTOS SURVEY METHODOLOGY

The concrete bridge structure, located at Interstate Route 277 in Akron, Ohio, was visually inspected for the presence of suspect asbestos-containing materials. Subsequent sampling of the suspect materials was conducted to verify the presence of asbestos in each suspect material. Bulk asbestos samples were collected, placed into Ziploc bags, and uniquely numbered for transportation under strict chain-of-custody protocols to EMSL Analytical, Inc., in Westmont, New Jersey for analysis. EMSL holds NVLAP Accreditation No. 101048-0. Samples are tested using EPA method 600/R-93/116 (PLM)

A total of four (2) representative samples were collected during the survey of the structure. The suspect materials observed on the structure designated for renovation included caulking at the parapet wall joints of the bridge structure.

SUMMARY OF RESULTS

The U.S. Environmental Protection Agency (EPA), National Emissions Standards for Asbestos (NESHAP) Standard 40 CFR 61, Section 141, requires all regulated asbestos containing material (RACM) containing less than ten percent asbestos either (1) be assumed greater than one percent and treated as RACM material, or (2) have the asbestos content verified /quantified by point counting. The final result that is obtained from point counting is the result that is to be reported.

A total of two (2) samples of suspect building materials (see photos) were submitted for laboratory analysis to confirm the presence of asbestos. The two (2) samples were taken from the parapet wall joints of the bridge structure. There were no other accessible, friable suspect building materials on the bridge.

CONCLUSIONS

Based on the results of the asbestos survey and bulk sampling analysis conducted on December 24, 2024, the caulking at the parapet wall joints were reported as non-asbestos containing.

RECOMMENDATIONS

Due to inaccessible areas of the bridge structure, ms consultants, inc. recommends that the asbestos abatement contractor collect suspect material samples from inaccessible areas at the time of this survey for asbestos analysis, prior to beginning any demolition/renovation activities to determine if any suspect material is present in those areas, requiring abatement before demolition/renovation activities commence.

Name, signature, and asbestos hazard evaluation number of each person who selected samples from the structure (use additional pages if needed)

Name	Signature	Asbestos Evaluation #
Brian K. Fischer		ES 3301

SUPPORTING INFORMATION

Laboratory Analytical Report

Blueprint, diagram or written description with the following:

- Type, location and amount of confirmed regulated asbestos containing material
- Location and collection date of each bulk sample
- Location and amounts of suspected asbestos containing material, both friable and non-friable

NOTE: The OEPA Notification of Demolition and Renovation Form with the appropriate Sections I, II, III, IV, VI and VII must be completed by the licensed asbestos hazard evaluation specialist and included with the report submission to ODOT prior to submission to OEPA or the local air authority with jurisdiction.

OEPA Notification of Demolition and Renovation Form

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, **including payment**, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at ***epa.ohio.gov/asbestos***. This form can be completed, and payment made, at ***ebiz.epa.ohio.gov***. Questions? ***asbestos@epa.ohio.gov*** or (614) 466-0061.

ATTACHMENT

PHOTOGRAPHS

Taken facing east, looking at the Interstate Route 277 bridge structure spanning Interstate Route 77.

Taken facing east, looking at the underside of the Interstate Route 277 bridge structure spanning Interstate Route 77.

Taken facing northwest, looking at the underside of Interstate Route 277 bridge structure spanning Interstate Route 77.

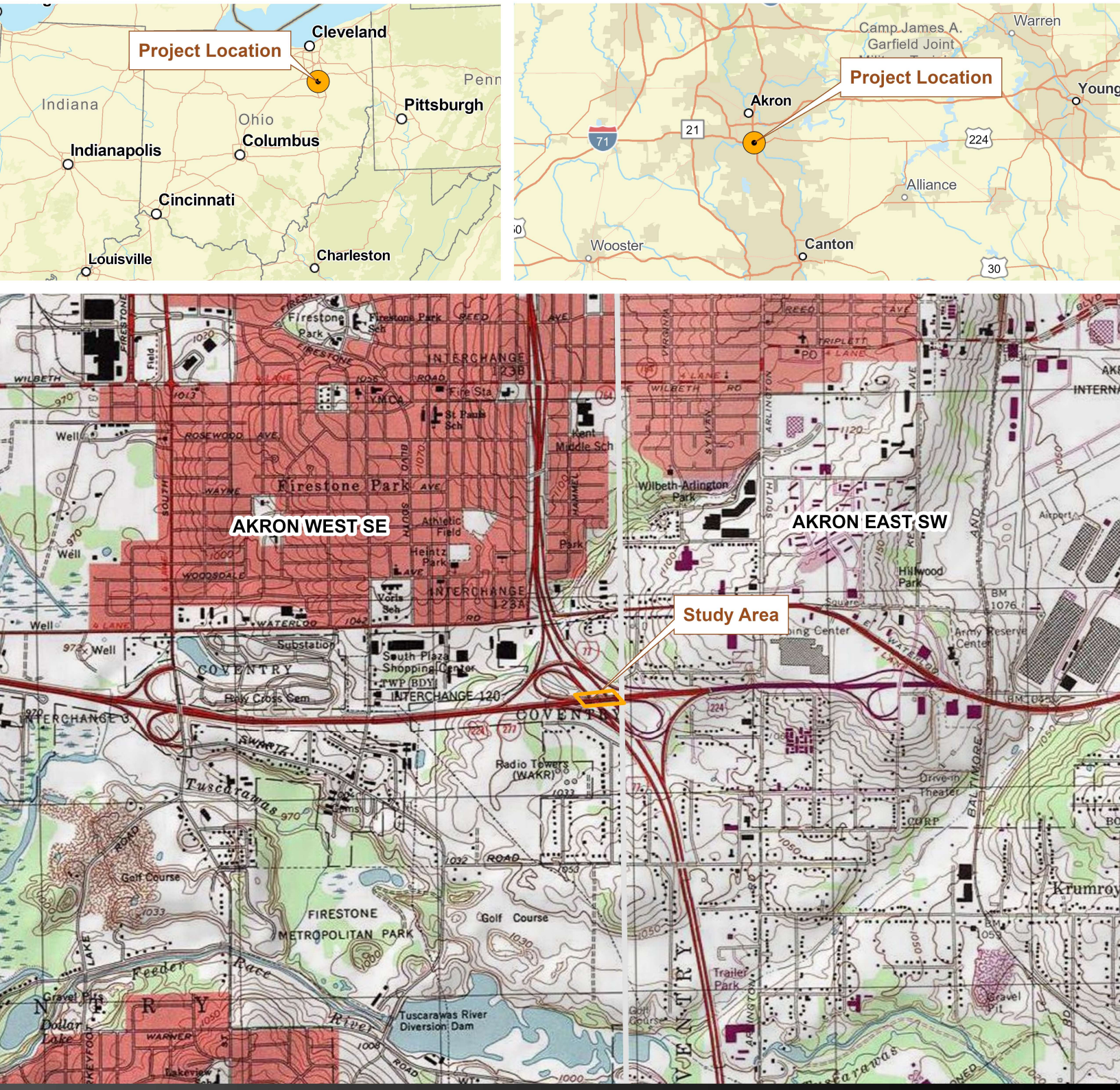
Taken facing west, looking at the Interstate Route 277 bridge structure spanning Interstate Route 77.

Taken facing west, looking at non-asbestos Parapet Wall Joint Caulking sampling location on the Interstate Route 277 bridge structure over Interstate Route 77.

ATTACHMENT

SITE LOCATION MAPPING

SUM- 277 Bridge Rehab
PID 121479



0 2,500 5,000
Feet

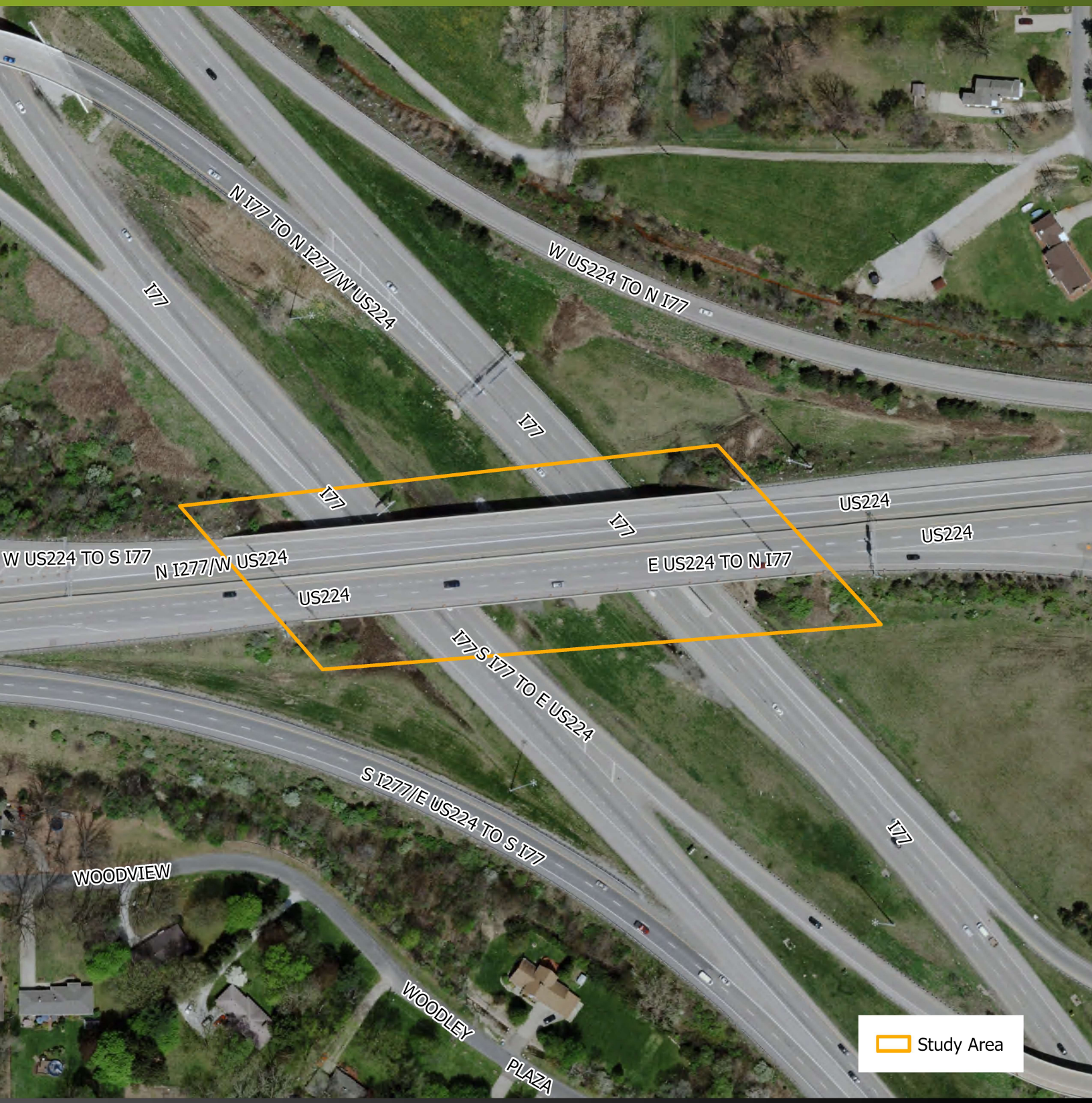
Figure 1
Project Location Map

Source: USGS, Akron Quadrangle

ms consultants, inc.
engineers, architects, planners

www.msconsultants.com

SUM-277 Bridge Rehab
PID 121479



0 100 200
Feet

Figure 2
Aerial Photo Map

ms consultants, inc.
engineers, architects, planners

www.msconsultants.com

ATTACHMENT

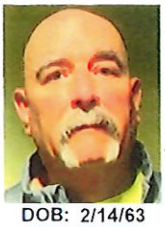
INSPECTOR ACCREDITATION

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist

Brian K
Fischer

Ohio Environmental Protection Agency



117 Gleneagle
Cortland OH 44410

DOB: 2/14/63

Certification Number	Expiration Date
ES3301	5/17/25

Card not Valid if Altered

ATTACHMENT

SAMPLE RESULTS

04-278

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: ms consultants, inc.	EMSL-Bill to: ☒ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 333 East Federal Street	
City: Youngstown State/Province:	Zip/Postal Code: Country:
Report To (Name): Brian K. Fischer	Telephone #:
Email Address: BFischer@msconsultants.com	Fax #: Purchase Order:
Project Name/Number: SUM 277/60-06926-00-02-01-004	Please Provide Results: ☐ Fax ☐ Email ☐ Mail
U.S. State Samples Taken: Ohio	Connecticut Samples: ☐ Commercial ☐ Residential

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☒ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ TEM Qual. via Filtration Technique
- ☐ TEM Qual. via Drop-Mount Technique

Other:
- ☐

RECEIVED EMSL CINNAMINSON, NJ 24 DEC 20 AM 11:16

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** | **Filter Pore Size (Air Samples):** ☐ 0.8µm ☐ 0.45µm

Samplers Name: Brian K. Fischer | **Samplers Signature:** Brian Fischer

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
SUM 277-3.73-1	Parapet Wall Joints-Caulking	1590LF/1	12-16-24/10:00AM
SUM 277-3.73-2	Parapet Wall Joints-Caulking	1590LF/1	12-16-24/10:00AM

Client Sample # (s): - **Total # of Samples:** 2

Relinquished (Client): Brian Fischer **Date:** 12/18/24 **Time:** 12:00 PM

Received (Lab): ~~AO~~ Angie ONeill UPS **Date:** 12/20/24 **Time:** 950A

Comments/Special Instructions:

EMSL ANALYTICAL, INC.

Attention: Brian K. Fischer
MS Consultants Inc.
333 East Federal Street
Youngstown, OH

Samples analyzed by: EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
Tel (800) 220-3675
CinnAsblab@EMSL.com

NVLAP Lab Code: 101048-0
AIHA-LAP, LLC-IHPAT Lab: 100194
NYS ELAP: 10872
NJ DEP: 3036
PA ID: 68-00367

Sample Date: 12/18/2024
Submitted Date: 12/20/2024
Analysis Date: 12/24/2024
Report Date: 1/6/2025

Project: Sum277/60-06926-00-02-01-0104

EMSL ID: 04-278

Summary Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Sub E App E supplemented with EPA 600/R-93/116

This is page one of the analytical report; data found on subsequent pages.

Samples in this report were submitted to EMSL Analytical Inc. for Asbestos Analysis of Bulk materials via EPA methods and may contain analytical results by PLM friable, PLM 400 Point count or gravimetric reduction of samples by PLM NOB, TEM NOB,PLM NOB 400 PTCT.

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. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Measurement of uncertainty is available upon request. NOB = Non-friable Organically Bound; N/A = Not Applicable; PTCT = Point Count.

Laboratory Comments:

Samantha Rundstrom, Laboratory Manager
or other approved Signatory

Project: Sum277/60-06926-00-02-01-0104 **EMSL Order ID:** 04-278

Summary Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Sub E App E supplemented with EPA 600/R-93/116

Sample	Description	Type of Analysis	Color/Fibrous/ Homogeneity	Non-Asbestos Fibers	%	% Non-Fibrous	Asbestos Type	Asbestos Percentage	Final Asbestos %	Comment
Sum 277-3.73-1	Parpet Wall Joint-Caulking	PLM NOB	Gray			100.0	**None Detected**			
			Non-Fibrous							
			Homogeneous							
			--	--	--		**Total Asbestos**	--	--	
Sum 277-3.73-2	Parpet Wall Joint-Caulking	PLM NOB	Gray			100.0	**None Detected**			
			Non-Fibrous							
			Homogeneous							
			--	--	--		**Total Asbestos**	--	--	
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		
			--	--	--		**Total Asbestos**	--		

ATTACHMENT

BULK SAMPLING LOGS, SAMPLING LOCATION MAPS, AND HOMOGENEOUS AREAS / FUNCTIONAL SPACE

HOMOGENEOUS AREA/BULK SAMPLING SUMMARY

Bldg. Assessed/Address: Interstate Route 277 Bridge over Interstate Route 77
Date of Original Bldg: 1968

Homogeneous Area Number	Functional Space	Suspect Material	QTY	Unit	T, S, M	F, NF	S, A	Sample Number	Date Collected
1	parapet wall joints	gray caulking	1,590	LF	M	NF	S	SUM 277-3.73-1 to SUM 277-3.73-2	16-Dec.-24

Material Type: (T) Thermal Systems Insulation (S) Surfacing (M) Miscellaneous
Friability: (F) Friable (NF) Non-Friable
Sampled: (S) Sampled (A) Assumed

ROOM/FUNCTIONAL SPACE ASSESSMENT
(NESHAP)

General Information:

Date: 16-Dec-24 **Type of Inspection:** X **Initial** _____ **Reinspection**

Bldg Assessed/Address: Interstate Route 277 Bridge over Interstate Route 77

Date Original Bldg: 1968

Functional Space (FS): Wing Walls

Date and Description of any additions or renovations for this room/functional space:

Material Information:

Homogeneous Area #: 1 **Sample Numbers:** Sum 277-3.73-1 to Sum 277-3.73-2

Description: Parapet Wall Joint - Caulking

Type of Material: _____ Surfacing _____ TSI x Miscellaneous

Material: _____ Friable x Non-Friable

Estimated Quantity: _____ Square Ft. 1,590 Lineal Ft.

Material Assessment:

Type of Damage	Yes	No	Comments (Severity, Cause)
Powder, Dust, or Debris (e.g., music room, motor/engine, or ducts vibrating)		x	
Location (e.g., material located in air supply or return plenum)		X	
Deterioration (e.g., crumbled, blistered, or loss of adhesion)	X		Crumbling, gaps in material continuity
Physical Damage (e.g., scrape or gouge)	X		Gouge
Water Damage (e.g., water stains)		x	
Air Erosion (e.g., elevator shaft, fan, or ventilator air stream)		X	
Vibration (e.g., music room, motor/engine, or ducts vibrating)		X	
Other			

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Division of Air Pollution Control

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, **including payment**, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at ***epa.ohio.gov/asbestos***. This form can be completed, and payment made, at ***ebiz.epa.ohio.gov***. Questions? ***asbestos@epa.ohio.gov*** or (614) 466-0061.

Ohio EPA Use Only	Notification #:	Postmarked: / /	Received: / /	☐ Hand-Delivered

1) Notification Information (Check all that apply)

☒ Original	☐ Revision # (count):	☐ Installation	☐ Emergency	☐ Annual	☐ Cancellation	**Project County:** Summit
☐ NESHAP Residential Exemption						

2) Owner, Asbestos Abatement Contractor, Billing and Fire Department Information **Revised?** ☐

Owner		
Name: ODOT District 4		Is this a company? ☐ Yes ☐ No
Address: 2088 S. Arlington Road	Contact Person: Chad Root	
City: Akron	State: OH	Zip: 44306 -
Email: chad.root@dot.ohio.gov	Phone: (330) 786 - 3100	Fax: ( ) -
Asbestos Abatement Contractor (if applicable)		
Name:	License #: AC	Expiration Date: / /
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -
Billing Contact (Entity paying for original notification)		
Is this contact associated with the ☐ Owner, ☐ Asbestos Abatement Contractor, or ☐ Demolition Contractor (if not installation)?		
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -
Fire Department (if applicable)		
Name:		
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -

3) Ohio Asbestos Hazard Evaluation Specialist and Evaluation Procedure **Revised?** ☐

Evaluation Specialist: Brian Fischer	Certification #: ES 3301	Expiration Date: 5 / 17 / 25

Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of regulated asbestos-containing material (RACM) and Category I and Category II non-friable asbestos-containing material: ☒ PLM ☐ Point Count ☐ TEM ☒ Other Method (Explain Below):

Samples analyzed using PLM EPA NOB <1%.

4) Procedures to be followed should unexpected RACM be discovered (check all that apply) **Revised?** ☐

☒ Stop work and keep wet	☒ Evacuate area	☒ Demarcate area	☒ Contact licensed abatement contractor
☒ Contact district office/local air authority			
☐ Other (Explain):			

5) Planned Demolition (check all that apply) **Revised?** ☐

Describe demolition work to be performed and method(s) to be employed, including demolition techniques to be used:

☐ Implosion ☐ Fire Training ☐ Wet Methods ☐ Manual Demolition ☐ Mechanical Demolition ☐ Other (Explain):

Description of affected facility components (include attachment if necessary):

Mail completed form and payment to:
Ohio EPA, DAPC – Asbestos
P.O. Box 1049, Columbus, OH 43216-1049

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Continued

6) Asbestos Description and Engineering Controls (if asbestos is being abated) **Revised?** ☐

For the material listed in each project, describe the type(s) of ACM to be abated, engineering controls and work practices to be used to minimize emissions and ensure proper waste handling:					
Type of ACM to be abated:	☐ Surfacing	☐ Mechanical	☐ Other		
Engineering Controls:	☐ Wet Methods	☐ Glove Bag	☐ NPE	☐ AFD	☐ Other:
Work Practices:	☐ Intact Removal	☐ Manual	☐ Mechanical	☐ Other:	

7) Asbestos Waste Transporter (if applicable) **Revised?** ☐

Transporter #1 Name:		
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -
Transporter #2 Name (if applicable):		
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -

8) Asbestos Waste Disposal Site (if applicable) **Revised?** ☐

Name:		
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -

9) Emergency Demolition (complete if you checked "Emergency" above and "Demolition" for any project) **Revised?** ☐

A copy of the issued order, including the following information, **must be attached** to this notification.	
Government Official Issuing Order:	Title:
Agency:	Authority of Order (Citation of Code):
Date of Order: / /	Demolition Date: / /

10) Emergency Renovation/Abatement (complete if you checked "Emergency" above and "Renovation/Abatement" for any project) **Revised?** ☐

Date of Emergency: / /	Time of Emergency: : ☐ a.m. ☐ p.m.
Description of Sudden, Unexpected Event:	
Explanation of how the event caused unsafe conditions or equipment damage:	

11) Attestation **Revised?** ☐

In accordance with Ohio Administrative Code rule 3745-20-03(A)(4)(p), I certify that at least one person trained as required by paragraph (B) of rule 3745-20-04 of the Administrative Code will supervise the stripping and removal described by this notification. I acknowledge that the submission of false or misleading statements is prohibited by law and I certify that facts contained in this notification are true, accurate, and complete.	
Signature:	Date: / /
Name:	Title:
Organization:	

Mail completed form and payment to:
Ohio EPA, DAPC – Asbestos
P.O. Box 1049, Columbus, OH 43216-1049

Notification of Demolition and Renovation/Abatement

Section 2: Project Address Specific Information

Division of Air Pollution Control

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

Ohio EPA Use Only	Project ID #:

A. Facility Description **Revised?** ☐

Building Name (if applicable): SUM- Interstate Route 277	Site Location (specific): I-277 over Interstate Route 77	
Address:		
City: Akron	State: OH	Zip: 44319 -
Building Size (square feet):	No. of Floors:	Age: 1968
Present Use: Roadway Bridge	Prior Use: Roadway Bridge	

B. Type of Operation (check all that apply) **Revised?** ☐

☐ Demolition ☒ Renovation/Abatement – Type: ☐ Removal ☒ Repair ☐ Encapsulation ☐ Enclosure

C. Asbestos Present (check one) **Revised?** ☐

☐ Yes ☒ No ☐ No, previously abated Year Abated:

D. Approximate Amount of Asbestos-Containing Materials (complete table below and Section 1 #6 if asbestos is present) **Revised?** ☐

	Material to be Removed			Material NOT to be Removed	
		Non-friable Asbestos-Containing Material		Non-friable Asbestos-Containing Material	
	RACM	Category I	Category II	Category I	Category II
Pipes (linear feet)	N/A	N/A	N/A	N/A	N/A
Surface area on other facility components (ft^2)	N/A	N/A	N/A	N/A	N/A
Volume if length or area cannot be measured (ft^3)	N/A				

E. Asbestos Abatement Schedule and Abatement Specialist (original notification is required 10 working days prior to the start of work) **Revised?** ☐

Setup Date: / /		Abatement Date: / /			Complete Date: / /		
(Shift 1) Time start/end on site	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Abatement Specialist Name:			Certification #: AS			Expiration Date: / /	
(Shift 2) Time start/end on site	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Abatement Specialist Name:			Certification #: AS			Expiration Date: / /	

F. Demolition Contractor (if applicable) **Revised?** ☐

Name:		
Address:	Contact Person:	
City:	State:	Zip: -
Email:	Phone: ( ) -	Fax: ( ) -

G. Demolition Schedule (original notification is required 10 working days prior to the start of work) **Revised?** ☐

Start Date: / /	Complete Date: / /

H. Project Hold **Revised?** ☐

Asbestos Abatement Offsite/On Hold as of Date: / /	Asbestos Abatement On Site/Off Hold, Work Resume Date: / /
Demolition Offsite/On Hold as of Date: / /	Demolition On Site/Off Hold, Work Resume Date: / /