

**ANALYSIS OF BROWNFIELDS CLEANUP ALTERNATIVES
MINGO JUNCTION STEEL WORKS PARCEL E
(GATE 1 OFFICE BUILDING)
NORTH MAIN STREET
WEIRTON, HANCOCK COUNTY, WEST VIRGINIA**

Prepared For:

**BUSINESS DEVELOPMENT CORPORATION
OF THE NORTHERN PANHANDLE
WEIRTON, WEST VIRGINIA**

Prepared By:

**CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
EXPORT, PENNSYLVANIA**

CEC Project 164-123.2H2M

November 2017

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1.0 INTRODUCTION AND BACKGROUND

1.1 INTRODUCTION

This Analysis of Brownfields Cleanup Alternatives (ABCA) for the Mingo Junction Steel Works North Weirton Parcel E – Gate 1 Office Building (Site) was prepared by Civil & Environmental Consultants, Inc. (CEC) on behalf of the current Site owner, the Business Development Corporation of the Northern Panhandle (BDC). The BDC plans to submit an application to the U.S. Environmental Protection Agency (USEPA) for a Brownfields Cleanup Grant to be used for cleanup of the Site.

1.2 SITE DESCRIPTION AND HISTORICAL USE

The Site covers approximately 0.23 acres and is located along North Main Street in the City of Weirton, Hancock County, West Virginia. The Site contains the former Gate 1 Office Building, a 10,000 square foot single-story steel and block structure with a finished interior. The Site is located in a mixed-use area consisting of commercial, industrial and residential properties. The Site layout is shown on Figure 1.

The Office Building was constructed in the mid-1900s as part of the former Weirton Steel facility. The building was historically used as administrative offices for the iron and steel-making operations at the facility. Iron and steel making operations ceased around 2011 and the building has been vacant since that time.

1.3 PREVIOUS SITE INVESTIGATION AND REMEDIATION ACTIVITIES

CEC performed a Phase I Environmental Site Assessment (ESA) of the Site in November 2017. No Recognized Environmental Conditions (RECs) were identified. However, the Phase I ESA did identify the potential for asbestos-containing materials (ACM) given the age and construction of the building.

Mid Atlantic Environmental Consultants, Inc., a West Virginia-licensed asbestos inspector, completed an ACM survey in October 2017. Sixty four (64) samples of suspect ACM were collected and analyzed for asbestos. Asbestos was identified in 31 samples associated primarily with floor tile/mastic, pipe wrap/insulation and pipe joint mud. Some of the identified ACM is friable and creates a potential health hazard. Excerpts from Mid Atlantic's ACM survey report are provided in Appendix A. This ABCA addresses the abatement of ACM that is required prior to the renovation and reuse of the building.

1.4 SITE RE-USE PLANS

The BDC has been in contact with a prospective purchaser that has interest in repurposing the Site as a metal manufacturing/fabricating operation and chemical processing facility. Other potential reuses include operations to support the growing natural gas industry in the Ohio River Valley.

DRAFT

2.0 APPLICABLE REGULATIONS AND CLEANUP STANDARDS

The asbestos removal and renovation work will be performed in accordance with the requirements of West Virginia Code 45CSR15 and 64CSR63. All required notifications will be made and the work will be performed by a West Virginia Bureau of Public Health licensed asbestos contractor. The lead-site permitted landfill in accordance with 40CFR260 and other applicable laws and regulations.

DRAFT

3.0 EVALUATION OF CLEANUP ALTERNATIVES

3.1 CLEANUP ALTERNATIVES AND ESTIMATED COSTS

Removing the ACM prior to renovating the building is required by West Virginia law. There are no other viable alternatives (other than no action, in which case the building could not be renovated and reused according to current plans).

The estimated cost to complete the ACM removal is as follows:

Work Plan and Notifications.....	\$1,500
ACM Removal/Disposal.....	\$45,000
Third Party Air Sampling.....	\$1,000
Project Management	\$2,000
Total	\$49,500

Contractor proposals that were used as the basis for the above cost estimates are provided in Appendix B.

3.2 RECOMMENDED CLEANUP ALTERNATIVE

Again, removing the ACM prior to renovation is the only viable alternative.

3.3 CONSIDERATION OF CHANGING CLIMATE

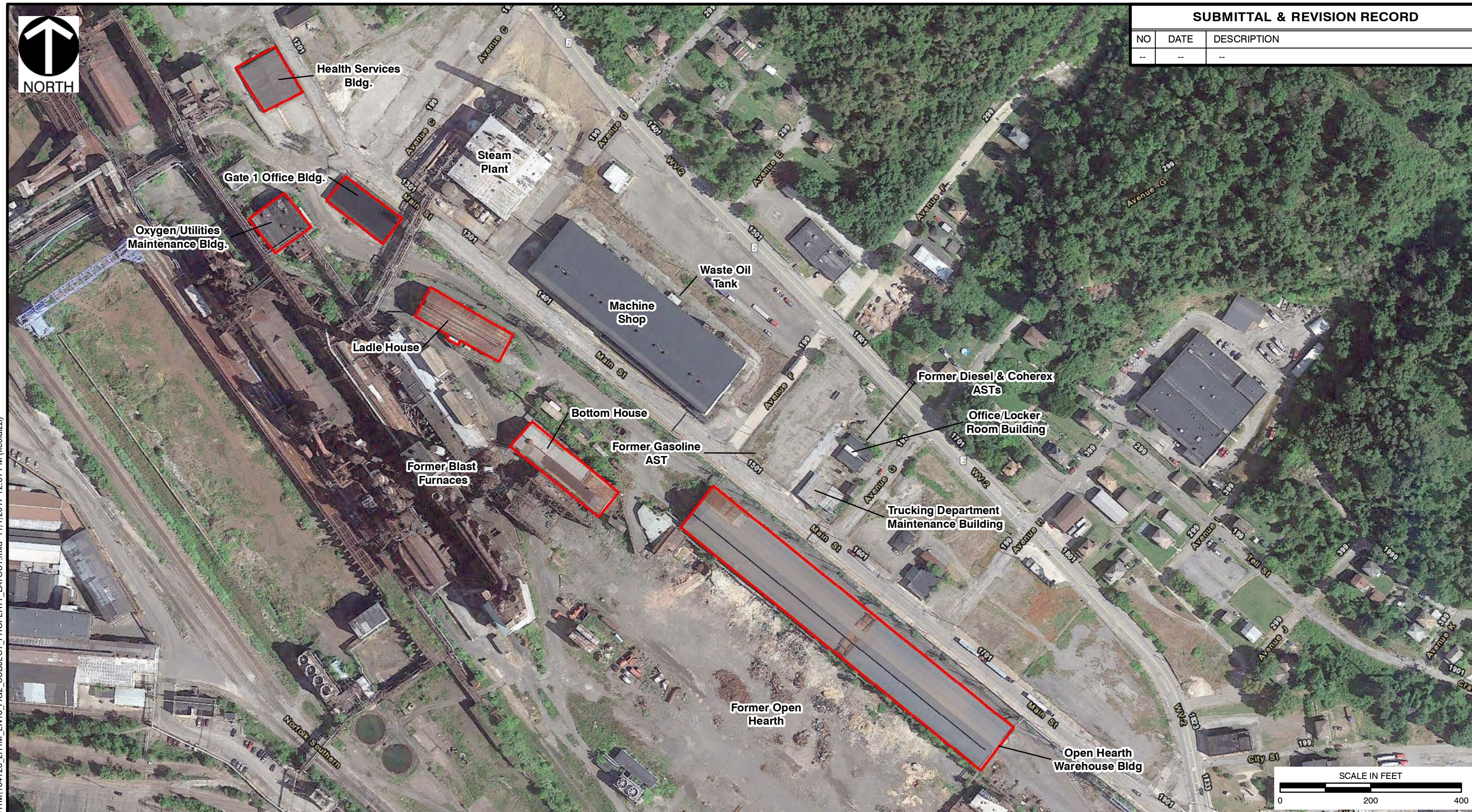
Given the short duration and permanent nature of the project, the effects of climate change will not be a factor.

FIGURE



SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
--	--	--



LEGEND



APPROXIMATE SUBJECT PROPERTY

REFERENCE

1. AERIAL PHOTOGRAPHY COPYRIGHT
GOOGLE EARTH PRO, EXPORTED 02/16/2017
IMAGERY DATE 08/21/2015.



Civil & Environmental Consultants, Inc.

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www.cecinc.com

BUSINESS DEVELOPMENT CORPORATION OF
THE NORTHERN PANHANDLE
WEIRTON NORTH PROPERTY
WEIRTON, HANCOCK COUNTY, WEST VIRGINIA

SUBJECT PROPERTY LAYOUT MAP

DRAWN BY:

KMC

CHECKED BY:

EAS

APPROVED BY:

DRAFT*

FIGURE NO:
* Hand signature
on file

2

DATE:

11/01/2017

SCALE:

1" = 200'

PROJECT NO:

164-123.2H1M

DRAFT

APPENDIX A

EXCERPT FROM ASBESTOS SURVEY REPORT



MINGO JUNCTION STEEL WORKS
NORTH END BUILDINGS
OFFICE BUILDING
WEIRTON, WEST VIRGINIA
(HANCOCK COUNTY)



ASBESTOS SURVEY REPORT

MID ATLANTIC JOB NUMBER: CEC-17-21

OCTOBER 2017

PREPARED FOR:

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
4000 TRIANGLE LANE
SUITE 200
EXPORT, PA 15632

PREPARED BY:

MID ATLANTIC ENVIRONMENTAL CONSULTANTS, INC.
5320 N. PIONEER ROAD
GIBSONIA, PA 15044
(724) 444-3460 – OFFICE
(724) 444-3463 – FAX
midatlantic@zoominternet.net – EMAIL



5320 North Pioneer Road
Gibsonia, PA 15044
Phone: 724-444-3460
Fax: 724-444-3463
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October 31, 2017

Civil & Environmental Consultants
4000 Triangle Lane
Suite 200
Export, PA 15632

Attn: Mr. Dave Olson

Re: Summary of Asbestos Building Survey – Office Building

To Whom It May Concern:

On Wednesday, October 18th, 2017, Mid Atlantic Environmental Consultants, Inc. mobilized and implemented an asbestos demolition survey of the Office Building located at the Mingo Junction Steel Facility (North End Buildings) in Weirton, West Virginia. The purpose of this survey was to identify any asbestos containing building materials that may impact the potential future demolition of the building. All visible and accessible suspect asbestos containing building materials were retrieved and analyzed by Polarized Light Microscopy (PLM) with dispersion staining techniques. An asbestos inspection report indicating the results of the survey is enclosed. Mr. Edgar King, an EPA / West Virginia Certified Asbestos Inspector, conducted all survey work. This survey and report are for informational purposes only and are based on the best available information at the time of the survey. The information is intended to provide a basis to solicit bids and develop a plan for abatement work. Additional ACMs may be present which are not able to be identified during the survey. Once abatement activities begin and areas are exposed, additional ACMs may be discovered. A change in the scope of services to identify and categorize additional ACMs may be required.

We appreciate the opportunity to assist Civil & Environmental Consultants, Inc. with this project and look forward to assisting you on future assignments. Should you have any further questions or concerns do not hesitate to contact us at (724) 444-3460 or by e-mail at midatlantic@zoominternet.net.

Sincerely,

A handwritten signature in black ink, appearing to read 'Edgar J. King'.

Edgar J. King
Asbestos Building Inspector
WV License # AI009156

A handwritten signature in blue ink, appearing to read 'Timothy E. Daniels'.

Timothy E. Daniels
Managing Partner
WV License #: AD003952

North End Buildings – Former Office Building

Mid Atlantic Environmental Consultants, Inc. (MAEC) was retained by Civil & Environmental Consultants, Inc. to conduct an asbestos demolition survey at the Former Office Building located at the Mingo Junction Steel Facility (North End Buildings) in Weirton, West Virginia (Hancock County). Mid Atlantic representative Mr. Edgar King, accompanied by Mr. Dennis Smith, performed the visual inspection and collection of suspect asbestos containing building materials. Mr. King is an EPA / West Virginia Certified Asbestos Inspector (License #: AI009156).

At the time of Mid Atlantic's on-site investigation / asbestos survey, the Former Office Building was un-occupied and in poor condition. The building has been vacant for a number of years and some delamination of the existing building structure has occurred. MAEC's survey team, to the best of their ability, performed this asbestos survey for due diligence purposes given the existing conditions of the building. The purpose of this survey was to identify any suspect asbestos containing building materials (including the rooftop) that may impact planned future demolition of the building.

Bulk samples of suspect asbestos containing building materials were collected throughout the building and from the rooftops. A total of fifty-one (51) samples, (64) including splits were collected at this time. Of those samples, thirty-one (31) were identified as being ACM. An asbestos containing material is defined as any material containing greater than one percent (>1%) asbestos. For a summary of all identified ACM, refer to Table 1—Asbestos Containing Materials. The complete listing of materials sampled is indicated in Appendix A—Building Inspection Results. Refer to Appendix B for Sample Location Diagrams.

TABLE 1—ASBESTOS CONTAINING MATERIALS

MATERIAL	LOCATION	APPROX. QUANTITY	FRIABLE / NON-FRIABLE	ASBESTOS CONTENT
Grey 12 x 12 Floor Tile	Office Building Throughout	4,100 Sq Ft	Non-Friable	2-3 % Chrysotile
Black Floor Tile Mastic	Office Building Throughout	4,100 Sq Ft	Non-Friable	5 % Chrysotile
Black Tar Paper	Office Building Throughout 4" Water Lines Above Ceiling	270 Ln Ft (Visible)	Non-Friable	20 % Chrysotile
Grey Mag. Insulation	Office Building Throughout 4" Water Lines Above Ceiling	270 Ln Ft Visible	Friable	8 % Chrysotile 12% Amosite
Black Tar Paper	Office Building Throughout 4" Water Lines Above Ceiling	390 Ln Ft Visible	Non-Friable	20 % Chrysotile
Grey Mag. Insulation	Office Building Throughout 4" Water Lines Above Ceiling	390 Ln Ft Visible	Friable	8 % Chrysotile 12% Amosite
Grey Fitting Mud	Office Building Throughout 4" Water Lines Above Ceiling	30 Fittings Visible	Friable	5-20 % Chrysotile

North End Buildings – Former Office Building

TABLE 1—ASBESTOS CONTAINING MATERIALS (*Continued*)

MATERIAL	LOCATION	APPROX. QUANTITY	FRIABLE/ NON-FRIABLE	ASBESTOS CONTENT
Grey Fitting Mud	Office Building Throughout 4" Water Lines Above Ceiling	15 Fittings Visible	Friable	5-20% Chrysotile
White / Grey Tape Wrap	Office Building Behind Drywall Outside Faucets	30 Ln Ft Visible	Non-Friable	65% Chrysotile
Black / Silver Coating on Metal	Roof	8,900 Sq Ft	Non-Friable	2% Chrysotile

AmeriSci Laboratories of Richmond, Virginia analyzed the bulk samples by Polarized Light Microscopy (PLM) methods. PLM analysis utilizes dispersion staining techniques as described by the Environmental Protection Agency (EPA) Method 600/M4-82-020. Refer to Appendix C for laboratory analysis results.

All asbestos abatement work should be conducted by a licensed asbestos abatement contractor prior to implementing any demolition activity procedures. Prior to the initiation of any asbestos abatement work, ensure that all of the delegated state and local pollution control agencies in the area and / or the EPA regional office are notified.

Refer to appendices for further information.

Appendix A—Building Inspection Results

Appendix B—Sample Location Diagrams

Appendix C—Laboratory Analysis Results

Appendix D—Accreditation

Should you have any further questions, feel free to contact our office at (724) 444-3460.

DISCLAIMER

DATE OF ISSUE— October 31, 2017

This asbestos survey report was prepared by Mid Atlantic Environmental Consultants, Inc. The purpose of this survey is to provide general information for the potential upcoming demolition project related to the Former Office Building located at the Mingo Junction Steel Facility (North End Buildings) in Weirton, West Virginia regarding the presence of accessible and / or exposed building materials (including the roofs) that commonly contain asbestos. There is the distinct possibility that conditions exist which could not be identified within the scope of the study or which were not apparent during the site visit. Unexposed and / or physically inaccessible areas are not warranted in regards to this specific asbestos survey. No warranties expressed or implied are made by Mid Atlantic or its employees, as to the use of any information, apparatus, product or process, disclosed in this report. If project bidding is to be performed in regards to asbestos abatement, it is recommended that all potential abatement contractors re-quantify all given quantities provided in this report. All given quantities of building materials are approximations only. This report is provided for the sole purpose of identifying visible / accessible asbestos containing building materials as outlined herein.

Appendix A – Building Inspection Results

Mid Atlantic Environmental Consultants, Inc.
 5320 N. Pioneer Road
 Gibsonia, PA 15044
 (724) 444-3460 Phone (724) 444-3463 Fax
 Email: midatlantic@zoominternet.net

Building Inspection Results

Client: Civil & Environmental Consultants, Inc. Date: October 18, 2017
 Project: Mingo Junction Steel Works – North End Buildings Inspector: Edgar King
 Office Building – Weirton, West Virginia EPA / West Virginia Lic. No: AI009156
 Job Number: CEC-17-21

SAMPLE	LOCATION	DESCRIPTION	APPROX QUANTITY	CONDITION	POTENTIAL FOR DAMAGE	ASBESTOS CONTENT
01	Office Building Throughout	Yellow / White 2 x 4 Ceiling Tile	7,350 Sq Ft (A)	Poor	High	None
02	Office Building Throughout Above Ceiling Tile	Yellow / Green Fiberglass Insulation	8,900 Sq Ft (B)	Poor	High	None
03A	Office Building Throughout	Grey 12 x 12 Floor Tile	4,100 Sq Ft (C)	Poor	High	2 %
03B	Office Building Throughout	Black Floor Tile Mastic	(C)	Poor	High	5 %
04A	Office Building Throughout	Grey 4" Cove Base	1,850 Ln Ft (D)	Poor	High	None
04B	Office Building Throughout	Tan Cove Base Adhesive	(D)	Poor	High	None
05	Office Building Throughout	Grey / Brown Drywall	25,900 Sq Ft (E)	Poor	High	None
06	Office Building Throughout	Off White Joint Compound	Unknown	Poor	High	Trace
07	Office Building Throughout	Yellow / White 2 x 4 Ceiling Tile	(A)	Poor	High	None
08	Office Building Throughout	Yellow / Green Fiberglass Insulation	(B)	Poor	High	None

Please be advised that the letter / symbol under the approximate quantities column denotes approximate duplicate quantities through-out this survey for that particular material.

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 Job Number: CEC-17-21

Date: October 18, 2017
 Inspector: Edgar King
 EPA / West Virginia Lic. No: AI009156

SAMPLE	LOCATION	DESCRIPTION	APPROX QUANTITY	CONDITION	POTENTIAL FOR DAMAGE	ASBESTOS CONTENT
09A	Office Building Throughout Some Under Carpet	Grey 12 x 12 Floor Tile	(C)	Poor	High	3 %
09B	Office Building Throughout Some Under Carpet	Black Floor Tile Mastic	(C)	Poor	High	5 %
10A	Office Building Throughout	Black 4" Cove Base	(D)	Poor	High	None
10B	Office Building Throughout	Brown Cove Base Adhesive	(D)	Poor	High	None
11	Office Building Throughout	Grey / Brown Drywall	(E)	Poor	High	None
12	Office Building Throughout	Off White Joint Compound	Unknown	Poor	High	Trace
13A	Office Building Throughout 4" Water Lines Above Ceiling	Black Tar Paper	270 Ln Ft Visible (F)	Poor	High	20 %
13B	Office Building Throughout 4" Water Lines Above Ceiling	Grey Mag. Insulation	(F)	Poor	High	20 %
14A	Office Building Throughout 4" Water Lines Above Ceiling	Black Tar Paper	390 Ln Ft Visible (G)	Poor	High	20 %
14B	Office Building Throughout 4" Water Lines Above Ceiling	Grey Mag. Insulation	(G)	Poor	High	20 %

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 Office Building – Weirton, West Virginia EPA / West Virginia Lic. No: AI009156
 Job Number: CEC-17-21

SAMPLE	LOCATION	DESCRIPTION	APPROX QUANTITY	CONDITION	POTENTIAL FOR DAMAGE	ASBESTOS CONTENT
15	Office Building Throughout 4" Water Lines Above Ceiling	Grey Fitting Mud	30 Fittings Visible (H)	Poor	High	5 %
16	Office Building Throughout 4" Water Lines Above Ceiling	Grey Fitting Mud	15 Fittings Visible (I)	Poor	High	5 %
17	Office Building Security Office Above Ceilings	Yellow / White / Silver TSI Fiberglass	30 Ln Ft (J)	Poor	High	None
18	Office Building Security Office Above Ceilings	Yellow / White / Silver TSI Fiberglass	(J)	Poor	High	None
19	Office Building Security Office Above Ceilings	Yellow / White / Silver TSI Fiberglass	(J)	Poor	High	None
20	Office Building Throughout	Brown / White 2 x 4 Ceiling Tile	(A)	Poor	High	None
21	Office Building Throughout Above Ceiling Tile	Brown / Green Fiberglass Insulation	(B)	Poor	High	None
22A	Office Building Throughout Some Under Carpet	Grey 12 x 12 Floor Tile	(C)	Poor	High	2 %
22B	Office Building Throughout Some Under Carpet	Black Floor Tile Mastic	(C)	Poor	High	5 %

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 Project: Mingo Junction Steel Works – North End Buildings
 Office Building – Weirton, West Virginia
 Job Number: CEC-17-21

Date: October 18, 2017
 Inspector: Edgar King
 EPA / West Virginia Lic. No: AI009156

SAMPLE	LOCATION	DESCRIPTION	APPROX QUANTITY	CONDITION	POTENTIAL FOR DAMAGE	ASBESTOS CONTENT
23A	Office Building Throughout	Black 4" Cove Base	(D)	Poor	High	None
23B	Office Building Throughout	Brown Cove Base Adhesive	(D)	Poor	High	None
24	Office Building Throughout	Grey / Brown Drywall	(E)	Poor	High	None
25	Office Building Throughout	Off White Joint Compound	Unknown	Poor	High	Trace
26A	Office Building Throughout 4" Water Lines Above Ceiling	Black Tar Paper	(F)	Poor	High	20 %
26B	Office Building Throughout 4" Water Lines Above Ceiling	Grey Mag. Insulation	(F)	Poor	High	20 %
27A	Office Building Throughout 4" Water Lines Above Ceiling	Black Tar Paper	(G)	Poor	High	20 %
27B	Office Building Throughout 4" Water Lines Above Ceiling	Grey Mag. Insulation	(G)	Poor	High	20 %
28	Office Building Throughout 4" Water Lines Above Ceiling	Grey Fitting Mud	(H)	Poor	High	15 %
29	Office Building Throughout 4" Water Lines Above Ceiling	Grey Fitting Mud	(H)	Poor	High	15 %

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Building Inspection Results

Client: Civil & Environmental Consultants, Inc. Date: October 18, 2017
Project: Mingo Junction Steel Works – North End Buildings Inspector: Edgar King
Office Building – Weirton, West Virginia EPA / West Virginia Lic. No: AI009156
Job Number: CEC-17-21

SAMPLE	LOCATION	DESCRIPTION	APPROX QUANTITY	CONDITION	POTENTIAL FOR DAMAGE	ASBESTOS CONTENT
30A	Office Building Throughout 4" Water Lines Above Ceiling	Black Tar Paper	(F)	Poor	High	20 %
30B	Office Building Throughout 4" Water Lines Above Ceiling	Grey Mag. Insulation	(F)	Poor	High	20 %
31A	Office Building Throughout 4" Water Lines Above Ceiling	Black Tar Paper	(G)	Poor	High	20 %
31B	Office Building Throughout 4" Water Lines Above Ceiling	Grey Mag. Insulation	(G)	Poor	High	20 %
32A	Office Building Throughout 4" Water Lines Above Ceiling	Black Tar Paper	(H)	Poor	High	20 %
32B	Office Building Throughout 4" Water Lines Above Ceiling	Grey Fitting Mud	(H)	Poor	High	20 %
33	Office Building Throughout 4" Water Lines Above Ceiling	Grey Fitting Mud	(I)	Poor	High	15 %
34	Office Building Behind Drywall Outside Faucets	White / Grey Tape Wrap	30 Ln Ft Visible (K)	Poor	High	65 %
35	Office Building Behind Drywall Outside Faucets	Grey / White Tape Wrap	(K)	Poor	High	65 %
36	Office Building Behind Drywall Outside Faucets	Grey / White Tape Wrap	(K)	Poor	High	65 %
37	Office Building Chiller Mechanical Room – Metal Wrapped	Yellow / White / Silver TSI Fiberglass	80 Ln Ft (L)	Poor	High	None

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Building Inspection Results

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 Project: Mingo Junction Steel Works – North End Buildings
 Office Building – Weirton, West Virginia
 Job Number: CEC-17-21

Date: October 18, 2017
 Inspector: Edgar King
 EPA / West Virginia Lic. No: AI009156

SAMPLE	LOCATION	DESCRIPTION	APPROX QUANTITY	CONDITION	POTENTIAL FOR DAMAGE	ASBESTOS CONTENT
38	Office Building Chiller Mechanical Room – Metal Wrapped	Yellow / White / Silver TSI Fiberglass	(L)	Poor	High	None
39	Office Building Chiller Mechanical Room – Metal Wrapped	Yellow / White / Silver TSI Fiberglass	(L)	Poor	High	None
40	Office Building Chiller Mechanical Room – Metal Wrapped	White / Grey Fitting	13 Fittings Visible (M)	Poor	High	None
41	Office Building Chiller Mechanical Room – Metal Wrapped	White / Grey Fitting	(M)	Poor	High	None
42	Office Building Chiller Mechanical Room – Metal Wrapped	White / Grey Fitting	(M)	Poor	High	None
43	Office Building Outside to Chiller Unit – Metal Covered	Yellow / Beige / Silver TSI Fiberglass	80 Ln Ft (N)	Poor	High	None
44	Office Building Outside to Chiller Unit – Metal Covered	Yellow / White / Silver TSI Fiberglass	(N)	Poor	High	None
45	Office Building Outside to Chiller Unit – Metal Covered	Yellow / Beige / Silver TSI Fiberglass	(N)	Poor	High	None
46	Roof	Black / Silver Coating on Metal	8,900 Sq Ft (O)	Poor	High	2 %
47	Roof	Black / Silver Coating on Metal	(O)	Poor	High	2 %

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Building Inspection Results

Client: Civil & Environmental Consultants, Inc.
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 Office Building – Weirton, West Virginia
 Job Number: CEC-17-21

Date: October 18, 2017
 Inspector: Edgar King
 EPA / West Virginia Lic. No: AI009156

SAMPLE	LOCATION	DESCRIPTION	APPROX QUANTITY	CONDITION	POTENTIAL FOR DAMAGE	ASBESTOS CONTENT
48	Roof	Black / Silver Coating on Metal	(O)	Poor	High	2 %
49	Exterior Windows	Clear Window Caulking	20 Windows @ 28 Ln Ft Each (P)	Poor	High	None
50	Exterior Windows	Clear Window Caulking	(P)	Poor	High	None
51	Exterior Windows	Clear Window Caulking	(P)	Poor	High	None

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ASBESTOS INSPECTION QUESTIONNAIRE

DATE of inspection: 10-18-17 INSPECTOR: Edgar King
CLIENT: CEC
LOCATION: Mingo Junction steel north end Bldgs (attic Bldg)
ADDRESS: Weirton W.V.
COUNTY: Hancock

Please circle one—

Purpose of survey: Demolition Renovation Real estate transaction Other
If other, explain _____

This survey is Complete Limited
If limited, explain _____

The building is currently Occupied Unoccupied

The general condition of the building is Good Fair Poor

Number of buildings included in the survey 1

Number of floors in the building 1

Main exterior building component (i.e. yellow brick, concrete block, etc...) Metal

Please answer yes or no.

Was the basement included? NA Was the attic included? NA

Was the roof included? yes Is a map included? yes

Were any areas inaccessible? NO If yes, explain _____

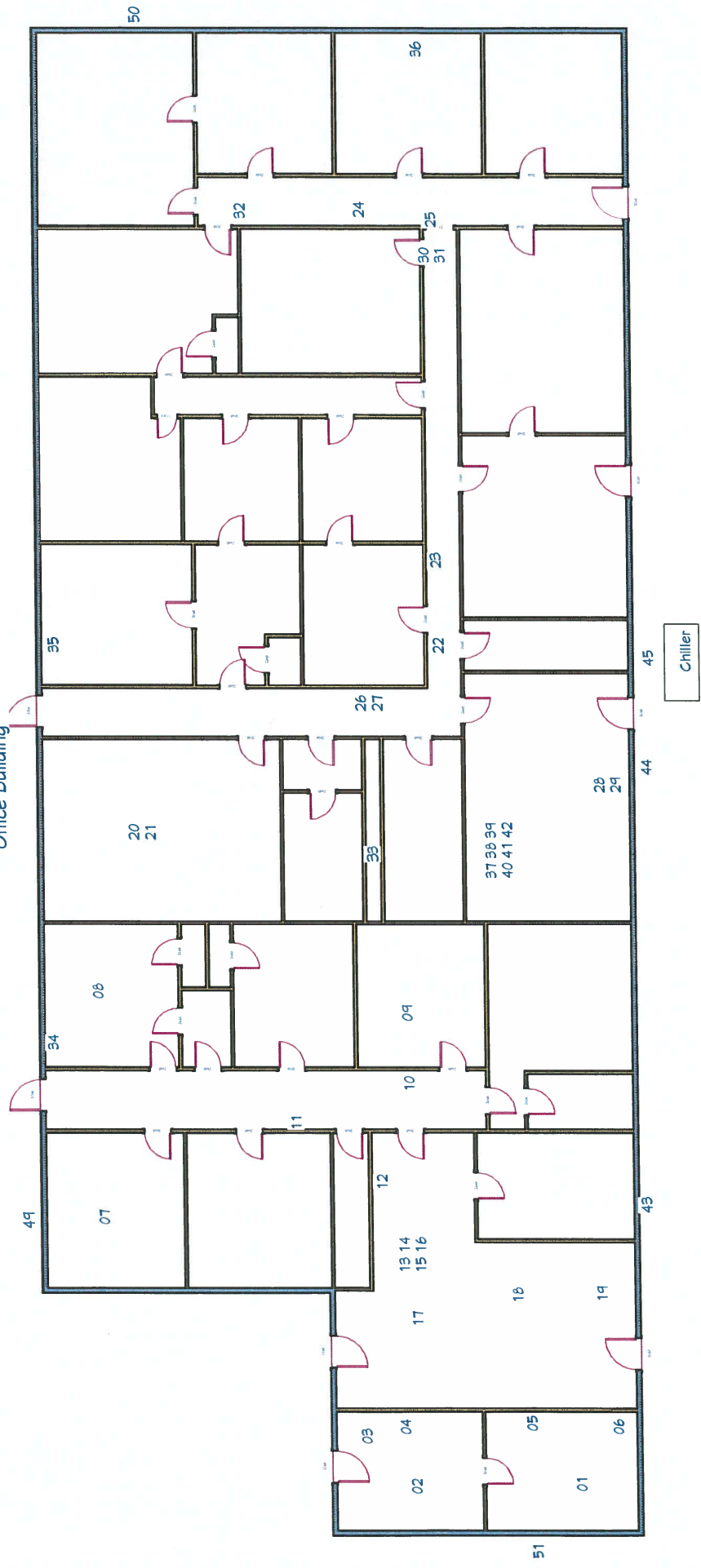
Were you accompanied by anyone yes If yes, who Dennis Smith

Were any commonly found materials, not present? (Floor tile, plaster, window caulking, etc...)? yes If yes, list and explain NO Plaster

Any other important / relevant observations:

Appendix B – Sample Location Diagrams

Mingo Junction Steel
Office Building



Mingo Junction Steel Office Building Roof

48	46
	47

Appendix C – Laboratory Analysis Results



5320 N. Pioneer Road
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Phone: 724-444-3460 Fax: 724-444-3463

Chain of Custody Form

117101886

SAMPLE	LAB ID NUMBER	TYPE OF ANALYSIS	TURNAROUND TIME
01		PLM Asbestos	Standard
51			

Project Site: Mingo Junction steel mill office Bldg Sampler Signature: [Signature] JN# CEC-17-21
Client / Address: CEC Phone: _____ Fax: _____
Relinquished By: Edgar King Date: 10-20-17 Time: 0600
Relinquished By: Ashley Burch Date: 10/20/17 Time: 807am
Received By (AmeriSci) _____ Date: _____ Time: _____

Additional Information:

- Please indicate Mid Atlantic's job # on all results and invoices
- Email results to midatlantic@zoominternet.net

RECEIVED

OCT 23 2017

By [Signature]



Please Reply To:

AmeriSci Richmond

13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

FACSIMILE TELECOPY TRANSMISSION

To: Tim Daniels Mid Atlantic Environmental Consultants, Inc	From: John S. Shearwood
Fax #:	AmeriSci Job #: 117101886
	Subject: PLM 5 day Results
Email: MIDATLANTIC@ZOOMINTERNET.NET	Client Project: CEC-17-21; CEC; Mingo Junction Steel Weirton Office Bldg

Date: Friday, October 27, 2017
Time: 18:19:50

Number of Pages: 17
(including cover sheet)

Comments:



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Certified Analysis Service 24 Hours A Day • 7 Days A Week Competitive Prices
visit our web site - www.ameriscil.com

Boston • Los Angeles • New York • Richmond

**AmeriSci Richmond**

13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Mid Atlantic Environmental Consultants,
Attn: Tim Daniels
5320 North Pioneer Road
Gibsonia, PA 15044

Date Received 10/23/17
Date Examined 10/27/17

AmeriSci Job # 117101886

P.O. #

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RE: CEC-17-21; CEC; Mingo Junction Steel Weirton Office Bldg

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
01 Location: Office Bldg Thru-Out Analyst Description: Yellow/White, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 94 %, Non-fibrous 6 %	117101886-01	No	NAD (by CVES) by John S. Shearwood on 10/27/17
02 Location: Office Bldg Thru-Out Above CT Analyst Description: Yellow/Green, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 95 %, Non-fibrous 5 %	117101886-02	No	NAD (by CVES) by John S. Shearwood on 10/27/17
03 Location: Office Bldg Thru Analyst Description: Gray, Homogeneous, Non-Fibrous, Floor Tile Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %	117101886-03L1	Yes	2 % (by CVES) by John S. Shearwood on 10/27/17
03 Location: Office Bldg Thru Analyst Description: Black, Heterogeneous, Non-Fibrous, Mastic Asbestos Types: Chrysotile 5.0 % Other Material: Non-fibrous 95 %	117101886-03L2	Yes	5 % (by CVES) by John S. Shearwood on 10/27/17
04 Location: Office Bldg Thru-Out Analyst Description: Gray, Homogeneous, Non-Fibrous, Cove Base Asbestos Types: Other Material: Non-fibrous 100 %	117101886-04L1	No	NAD (by CVES) by John S. Shearwood on 10/27/17

See Reporting notes on last page

Client Name: Mid Atlantic Environmental Consultants, Inc

PLM Bulk Asbestos Report

CEC-17-21; CEC; Mingo Junction Steel Weirton Office Bldg

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
04	117101886-04L2	No	NAD
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Cellulose Trace, Non-fibrous 100 %			
05	117101886-05	No	NAD
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray/Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 5 %, Non-fibrous 95 %			
06	117101886-06	Yes	Trace (<1 %)
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Off White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100 %			
07	117101886-07	No	NAD
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Yellow/White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Fibrous glass 94 %, Non-fibrous 6 %			
08	117101886-08	No	NAD
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Yellow/Green, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Fibrous glass 95 %, Non-fibrous 5 %			
09	117101886-09L1	Yes	3 %
Location: Office Bldg Thru-Out Some Under Carpet			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Homogeneous, Non-Fibrous, Floor Tile			
Asbestos Types: Chrysotile 3.0 %			
Other Material: Non-fibrous 97 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

CEC-17-21; CEC; Mingo Junction Steel Weirton Office Bldg

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09	117101886-09L2	Yes	5 %
Location: Office Bldg Thru-Out Some Under Carpet			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types: Chrysotile 5.0 %			
Other Material: Non-fibrous 95 %			
10	117101886-10L1	No	NAD
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black, Homogeneous, Non-Fibrous, Cove Base			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
10	117101886-10L2	No	NAD
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
11	117101886-11	No	NAD
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray/Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 5 %, Non-fibrous 95 %			
12	117101886-12	Yes	Trace (<1 %)
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Off White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100 %			
13	117101886-13L1	Yes	20 %
Location: Office Bldg Thru-Out Water Lines Above Ceiling 4"			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black, Heterogeneous, Non-Fibrous, Tar Paper			
Asbestos Types: Chrysotile 20.0 %			
Other Material: Cellulose 40 %, Non-fibrous 40 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

CEC-17-21; CEC; Mingo Junction Steel Weirton Office Bldg

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
13	117101886-13L2	Yes	20 %
Location: Office Bldg Thru-Out Water Lines Above Ceiling 4"			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Heterogeneous, Fibrous, Insulation			
Asbestos Types: Chrysotile 8.0 %, Amosite 12.0 %			
Other Material: Non-fibrous 80 %			
14	117101886-14L1	Yes	20 %
Location: Office Bldg Thru-Out Water Lines Above Ceiling 4"			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black, Heterogeneous, Non-Fibrous, Tar Paper			
Asbestos Types: Chrysotile 20.0 %			
Other Material: Cellulose 40 %, Non-fibrous 40 %			
14	117101886-14L2	Yes	20 %
Location: Office Bldg Thru-Out Water Lines Above Ceiling 4"			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Heterogeneous, Fibrous, Insulation			
Asbestos Types: Chrysotile 8.0 %, Amosite 12.0 %			
Other Material: Non-fibrous 80 %			
15	117101886-15	Yes	5 %
Location: Office Bldg Thru-Out Water Lines Above Ceiling 4"			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types: Chrysotile 5.0 %			
Other Material: Fibrous glass 65 %, Non-fibrous 30 %			
16	117101886-16	Yes	5 %
Location: Office Bldg Thru-Out Water Lines Above Ceiling 4"			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types: Chrysotile 5.0 %			
Other Material: Fibrous glass 65 %, Non-fibrous 30 %			
17	117101886-17	No	NAD
Location: Office Bldg Security Office Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Yellow/White/Silver, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 5 %, Fibrous glass 90 %, Non-fibrous 5 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

CEC-17-21; CEC; Mingo Junction Steel Weirton Office Bldg

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
18	117101886-18	No	NAD
Location: Office Bldg Security Office Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Yellow/White/Silver, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 5 %, Fibrous glass 90 %, Non-fibrous 5 %			
19	117101886-19	No	NAD
Location: Office Bldg Security Office Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Yellow/White/Silver, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 5 %, Fibrous glass 90 %, Non-fibrous 5 %			
20	117101886-20	No	NAD
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Brown/White, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Fibrous glass 90 %, Non-fibrous 10 %			
21	117101886-21	No	NAD
Location: Office Bldg Thru-Out Above Tile			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Brown/Green, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Fibrous glass 92 %, Non-fibrous 8 %			
22	117101886-22L1	Yes	2 %
Location: Office Bldg Thru-Out Some Under Carpet			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Homogeneous, Non-Fibrous, Floor Tile			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Non-fibrous 98 %			
22	117101886-22L2	Yes	5 %
Location: Office Bldg Thru-Out Some Under Carpet			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types: Chrysotile 5.0 %			
Other Material: Non-fibrous 95 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

CEC-17-21; CEC; Mingo Junction Steel Weirton Office Bldg

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
23	117101886-23L1	No	NAD
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black, Homogeneous, Non-Fibrous, Cove Base			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
23	117101886-23L2	No	NAD
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
24	117101886-24	No	NAD
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray/Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 5 %, Non-fibrous 95 %			
25	117101886-25	Yes	Trace (<1 %)
Location: Office Bldg Thru-Out			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Off White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100 %			
26	117101886-26L1	Yes	20 %
Location: Office Bldg Thru-Out 4" Water Lines Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black, Heterogeneous, Non-Fibrous, Tar Paper			
Asbestos Types: Chrysotile 20.0 %			
Other Material: Cellulose 40 %, Non-fibrous 40 %			
26	117101886-26L2	Yes	20 %
Location: Office Bldg Thru-Out 4" Water Lines Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Heterogeneous, Fibrous, Insulation			
Asbestos Types: Chrysotile 8.0 %, Amosite 12.0 %			
Other Material: Non-fibrous 80 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

CEC-17-21; CEC; Mingo Junction Steel Weirton Office Bldg

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
27	117101886-27L1	Yes	20 %
Location: Office Bldg Thru-Out 4" Water Lines Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black, Heterogeneous, Non-Fibrous, Tar Paper			
Asbestos Types: Chrysotile 20.0 %			
Other Material: Cellulose 40 %, Non-fibrous 40 %			
27	117101886-27L2	Yes	20 %
Location: Office Bldg Thru-Out 4" Water Lines Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Heterogeneous, Fibrous, Insulation			
Asbestos Types: Chrysotile 8.0 %, Amosite 12.0 %			
Other Material: Non-fibrous 80 %			
28	117101886-28	Yes	15 %
Location: Office Bldg Thru-Out 4" Water Lines Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 15.0 %			
Other Material: Fibrous glass 15 %, Non-fibrous 70 %			
29	117101886-29	Yes	15 %
Location: Office Bldg Thru-Out 4" Water Lines Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types: Chrysotile 15.0 %			
Other Material: Fibrous glass 15 %, Non-fibrous 70 %			
30	117101886-30L1	Yes	20 %
Location: Office Bldg Thru-Out 4" Water Lines Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black, Heterogeneous, Non-Fibrous, Tar Paper			
Asbestos Types: Chrysotile 20.0 %			
Other Material: Cellulose 40 %, Non-fibrous 40 %			
30	117101886-30L2	Yes	20 %
Location: Office Bldg Thru-Out 4" Water Lines Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Heterogeneous, Fibrous, Insulation			
Asbestos Types: Chrysotile 8.0 %, Amosite 12.0 %			
Other Material: Non-fibrous 80 %			

Client Name: Mid Atlantic Environmental Consultants, Inc

PLM Bulk Asbestos Report

CEC-17-21; CEC; Mingo Junction Steel Weirton Office Bldg

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
31	117101886-31L1	Yes	20 %
Location: Office Bldg Thru-Out 4" Water Lines Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black, Heterogeneous, Non-Fibrous, Tar Paper			
Asbestos Types: Chrysotile 20.0 %			
Other Material: Cellulose 40 %, Non-fibrous 40 %			
31	117101886-31L2	Yes	20 %
Location: Office Bldg Thru-Out 4" Water Lines Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Insulation			
Asbestos Types: Chrysotile 8.0 %, Amosite 12.0 %			
Other Material: Non-fibrous 80 %			
32	117101886-32L1	Yes	20 %
Location: Office Bldg Thru-Out 4" Water Lines Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black, Heterogeneous, Non-Fibrous, Tar Paper			
Asbestos Types: Chrysotile 20.0 %			
Other Material: Cellulose 40 %, Non-fibrous 40 %			
32	117101886-32L2	Yes	20 %
Location: Office Bldg Thru-Out 4" Water Lines Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Heterogeneous, Fibrous, Insulation			
Asbestos Types: Chrysotile 8.0 %, Amosite 12.0 %			
Other Material: Non-fibrous 80 %			
33	117101886-33	Yes	15 %
Location: Office Bldg 4" Water Lines Above Ceiling			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 15.0 %			
Other Material: Fibrous glass 15 %, Non-fibrous 70 %			
34	117101886-34	Yes	65 %
Location: Office Bldg 4" Behind Drywall Outside Faucets			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: White/Gray, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types: Chrysotile 65.0 %			
Other Material: Synthetic fibers 30 %, Non-fibrous 5 %			

See Reporting notes on last page

Client Name: Mid Atlantic Environmental Consultants, Inc

PLM Bulk Asbestos Report

CEC-17-21; CEC; Mingo Junction Steel Weirton Office Bldg

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
35	117101886-35	Yes	65 %
Location: Office Bldg 4" Behind Drywall Outside Faucets			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray/White, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types: Chrysotile 65.0 %			
Other Material: Synthetic fibers 30 %, Non-fibrous 5 %			
36	117101886-36	Yes	65 %
Location: Office Bldg 4" Behind Drywall Outside Faucets			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Gray/White, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types: Chrysotile 65.0 %			
Other Material: Synthetic fibers 30 %, Non-fibrous 5 %			
37	117101886-37	No	NAD
Location: Office Bldg Chiller Mech Rm Metal Wrapped			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Yellow/White/Silver, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 5 %, Fibrous glass 90 %, Non-fibrous 5 %			
38	117101886-38	No	NAD
Location: Office Bldg Chiller Mech Rm Metal Wrapped			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Yellow/White/Silver, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 5 %, Fibrous glass 90 %, Non-fibrous 5 %			
39	117101886-39	No	NAD
Location: Office Bldg Chiller Mech Rm Metal Wrapped			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Yellow/White/Silver, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 5 %, Fibrous glass 90 %, Non-fibrous 5 %			
40	117101886-40	No	NAD
Location: Office Bldg Chiller Mech Rm Metal Wrapped			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: White/Gray, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 2 %, Fibrous glass 90 %, Non-fibrous 8 %			

See Reporting notes on last page

Client Name: Mid Atlantic Environmental Consultants, Inc

PLM Bulk Asbestos Report

CEC-17-21; CEC; Mingo Junction Steel Weirton Office Bldg

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
41	117101886-41	No	NAD
Location: Office Bldg Chiller Mech Rm Metal Wrapped			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: White/Gray, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 2 %, Fibrous glass 90 %, Non-fibrous 8 %			
42	117101886-42	No	NAD
Location: Office Bldg Chiller Mech Rm Metal Wrapped			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: White/Gray, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 2 %, Fibrous glass 90 %, Non-fibrous 8 %			
43	117101886-43	No	NAD
Location: Office Bldg Outside To Chiller Unit Metal Covered			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Yellow/Beige/Silver, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 5 %, Fibrous glass 90 %, Non-fibrous 5 %			
44	117101886-44	No	NAD
Location: Office Bldg Outside To Chiller Unit Metal Covered			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Yellow/White/Silver, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 5 %, Fibrous glass 90 %, Non-fibrous 5 %			
45	117101886-45	No	NAD
Location: Office Bldg Outside To Chiller Unit Metal Covered			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Yellow/Beige/Silver, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 5 %, Fibrous glass 90 %, Non-fibrous 5 %			
46	117101886-46	Yes	2 %
Location: Roof			(by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black/Silver, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Non-fibrous 98 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

CEC-17-21; CEC; Mingo Junction Steel Weirton Office Bldg

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
47 Location: Roof	117101886-47	Yes	2 % (by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black/Silver, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %			
48 Location: Roof	117101886-48	Yes	2 % (by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Black/Silver, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %			
49 Location: Exterior Windows	117101886-49	No	NAD (by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Clear, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
50 Location: Exterior Windows	117101886-50	No	NAD (by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Clear, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
51 Location: Exterior Windows	117101886-51	No	NAD (by CVES) by John S. Shearwood on 10/27/17
Analyst Description: Clear, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Mid Atlantic Environmental Consultants, Inc

PLM Bulk Asbestos Report

CEC-17-21; CEC; Mingo Junction Steel Weirton Office Bldg

Reporting Notes:

Analyzed by: John S. Shearwood John S. Shearwood Date: 10/27/2017 Reviewed by: John S. Shearwood

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST 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.

Appendix D – Accreditation



WEST VIRGINIA

Asbestos Program

Edgar J. King

IS LICENSED AS AN
ASBESTOS INSPECTOR

License # AI009156

Issued: 3/13/2017

Expires: 3/31/2018

Walter M. Gray

Director
WV OEHS



WEST VIRGINIA

Asbestos Program

Timothy E. Daniels

License # AD003952

Issued: 10/10/2017

Expires: 10/31/2018

IS LICENSED AS AN
**ASBESTOS PROJECT
DESIGNER**

Walter M. Dwyer

Director
WV OEHS

WEST VIRGINIA

Asbestos Program

**Mid-Atlantic Environmental
Consultants, Inc.**

IS LICENSED AS AN

**ASBESTOS LABORATORY -
AIR AND BULK**

License # LT000563

Issued: 5/31/2017

Expires: 5/31/2018

**Director
WV OEHS**



William M. Dray

State of West Virginia

Bureau for Public Health
Office of Environmental Health Services
Radiation, Toxics and Indoor Air Division

This is to certify that

Mid-Atlantic Environmental Consultants

5320 N. Pioneer Road

Gibsonia, PA 15044

Has complied with Chapter 16, Article 32, of the Asbestos Abatement Licensing Rules and Regulations and is hereby licensed as an Asbestos Air and Bulk Sample Analytical Laboratory.

Asbestos Laboratory License Number:

LT000563

Issued:

5/31/2017

Expires:

5/31/2018

Walter M. Ivey

**Walter M. Ivey, Director
Office of Environmental Health Services**

APPENDIX B

CONTRACTOR COST ESTIMATES
