ANALYSIS OF BROWNFIELDS CLEANUP ALTERNATIVES MINGO JUNCTION STEEL WORKS PARCEL C (OPEN HEARTH WAREHOUSE) 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 C – Open Hearth Warehouse (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 2 acres and is located along North Main Street in the City of Weirton, Hancock County, West Virginia. The Site contains the former Open Hearth Warehouse, a 88,200 square foot steel-framed and sided structure with concrete foundations and floors. 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 Open Hearth Warehouse was constructed in the early 1900s as part of the former Weirton Steel facility. The building was historically used to store materials and supplies related to the operation of the former open hearth furnace. The iron and steel making operations of the facility ceased around 2011. The building has continued to be used for the storage of materials and supplies related to other operations at the facility.

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. Twelve (12) samples of suspect ACM were collected and analyzed for asbestos. Asbestos was identified in six samples associated primarily with pipe wrap/insulation. 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.

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-contaminated debris that will result from the demolition of the ticket booth will be disposed at an off-site permitted landfill in accordance with 40CFR260 and other applicable laws and regulations.



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	
Third Party Air Sampling	
Project Management	
Total	

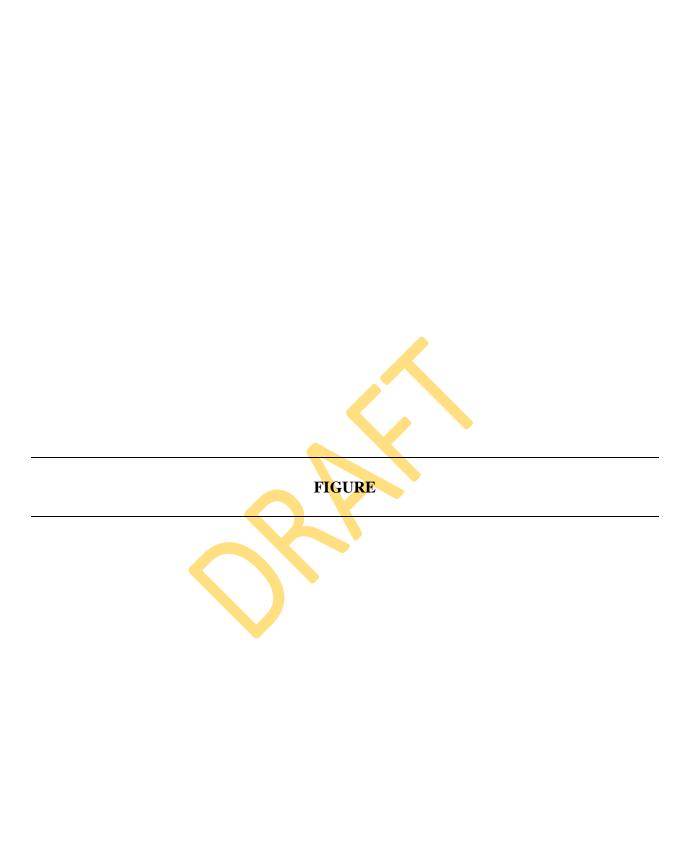
Contractor proposals that were used as the basis for the above cost estimates are provided in Appendix B.

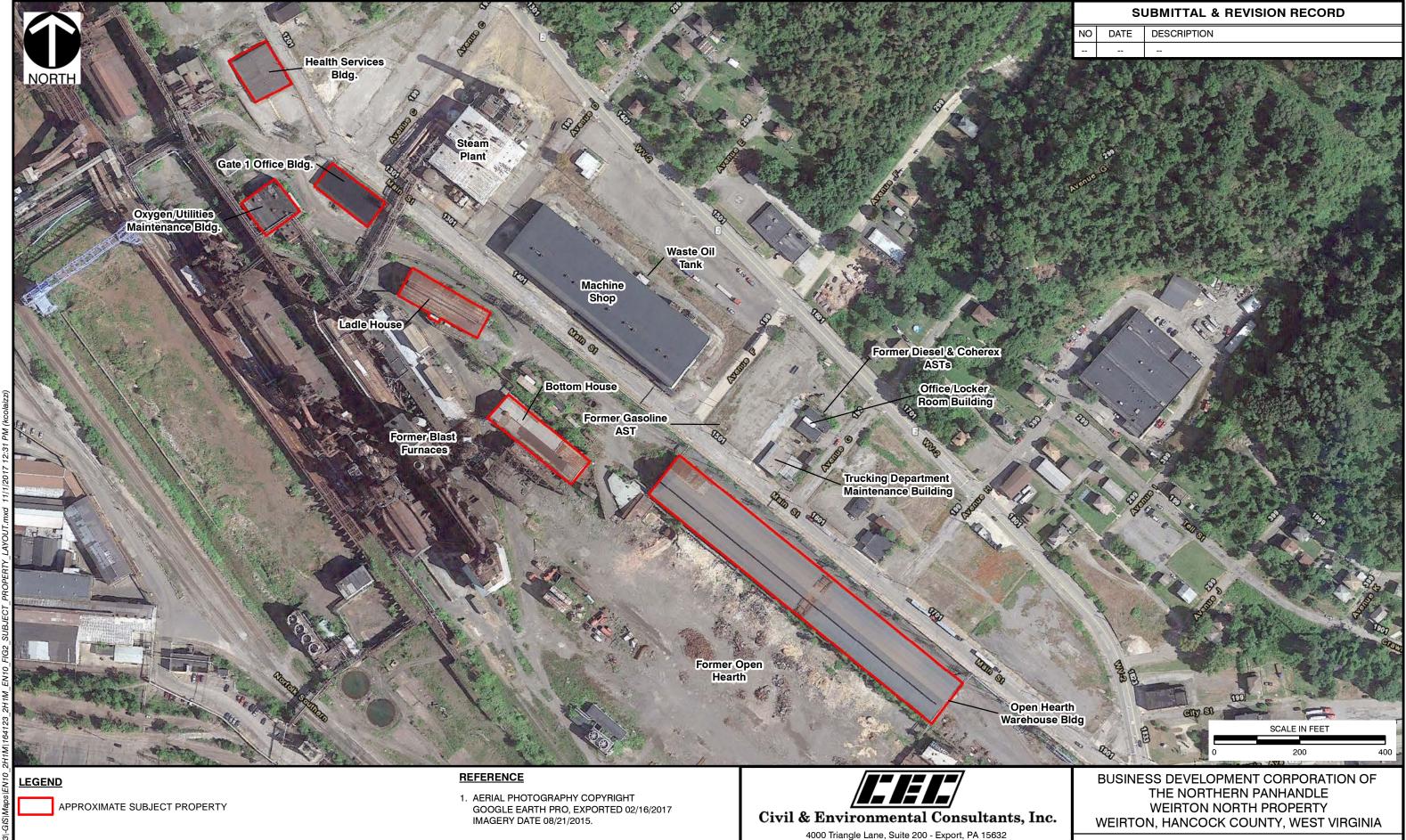
3.2 RECOMMENDED CLEANUP ALTERNATIVE

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.





724-327-5200 •800-899-3610

KMC CHECKED BY:

www.cecinc.com

11/01/2017 SCALE:

DRAWN BY:

DATE:

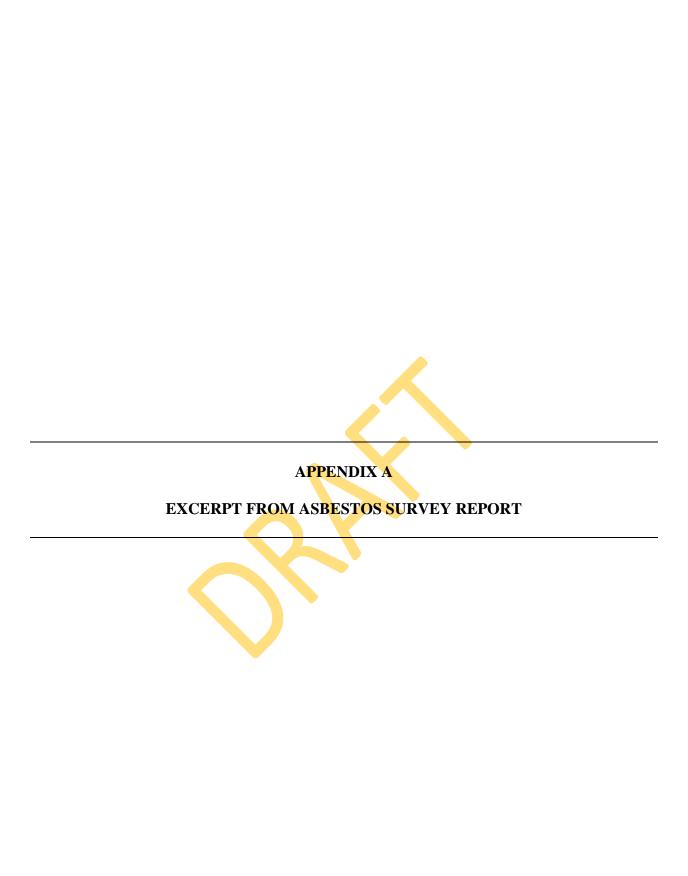
SUBJECT PROPERTY LAYOUT MAP

164-123.2H1M

DRAFT* FIGURE NO:

EAS APPROVED BY:

1 " = 200 ' PROJECT NO:





MINGO JUNCTION STEEL WORKS NORTH END BUILDINGS OPEN HEARTH WAREHOUSE 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 Email: midatlantic@zoominternet.net

November 2, 2017

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

Attn: Mr. Dave Olson

Re: Summary of Asbestos Building Survey - Open Hearth Warehouse Building

To Whom It May Concern:

On Friday, October 20th, 2017, Mid Atlantic Environmental Consultants, Inc. mobilized and implemented an asbestos demolition survey of the Former Open Hearth Warehouse 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 and / or demolition 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,

Edgar J. King

Asbestos Building Inspector

WV License # AI009156

Timothy E. Daniels

Managing Partner

WV License #: AD003952

Timothy E. Donal

North End Buildings - Former Open Hearth Warehouse Building

Mid Atlantic Environmental Consultants, Inc. (MAEC) was retained by Civil & Environmental Consultants, Inc. to conduct an asbestos demolition survey at the Former Open Hearth Warehouse 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 Open Hearth Warehouse 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 that may impact planned future demolition of the building. There was no access to the rooftop at the time of this survey although it appeared to be the same rusted out older and replaced newer metal as the rest of the building.

Bulk samples of suspect asbestos containing building materials were collected throughout the building. A total of six (6) samples, (12) including splits were collected at this time. Of those samples, six (6) 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 Diagram.

TABLE 1—ASBESTOS CONTAINING MATERIALS

MATERIAL	LOCATION	APPROX. QUANTITY	FRIABLE / NON-FRIABLE	ASBESTOS CONTENT
Black Tar Paper	Open Hearth Warehouse Building North End & West Side	900 Ln Ft	Non-Friable	55 % Chrysotile
Grey / Brown Aircell Insulation	Open Hearth Warehouse Building North End & West Side	900 Ln Ft	Friable	60 % 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.

North End Buildings - Former Open Hearth Warehouse Building

Refer to appendices for further information.

Appendix A—Building Inspection Results

Appendix B—Sample Location Diagram

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—November 2, 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 Open Hearth Warehouse 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 rooftop) 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 warranteed 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.

Project: Mingo Junction Steel Works – North End Buildings Open Hearth Warehouse – Weirton, West Virginia

Job Number: CEC-17-21

Date: October 20, 2017

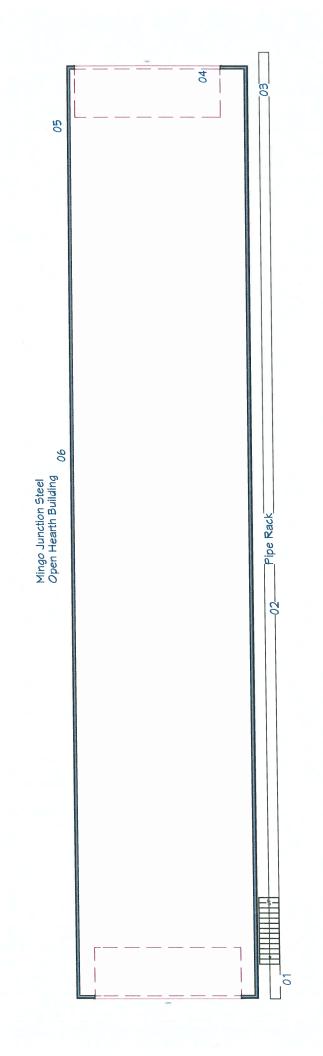
Inspector: Edgar King EPA / West Virginia Lic. No: AI009156

SAMPLE	LOCATION	DESCRIPTION	APPROX QUANTITY	CONDITION	POTENTIAL FOR DAMAGE	ASBESTOS CONTENT
01	Open Hearth Warehouse Building East Side 8" Pipe Metal Rack	Yellow / Beige / Silver TSI Fiberglass	850 Ln Ft (A)	Fair	High	None
02	Open Hearth Warehouse Building East Side 8" Pipe Metal Rack Coated Potable Water	Yellow / Beige / Silver TSI Fiberglass	(A)	Fair	High	None
03	Open Hearth Warehouse Building East Side 8" Pipe Metal Rack Coated Potable Water	Yellow / Beige / Silver TSI Fiberglass	(A)	Fair	High	None
04A	Open Hearth Warehouse Building North End & West Side	Black Tar Paper	900 Ln Ft (B)	Poor	High	55 %
04B	Open Hearth Warehouse Building North End & West Side	Brown / Black Insulation	(B)	Poor	High	None
04C	Open Hearth Warehouse Building North End & West Side	Grey / Brown Aircell Insulation	(B)	Poor	High	% 09
05A	Open Hearth Warehouse Building North End & West Side	Black Tar Paper	(B)	Poor	High	55 %
05B	Open Hearth Warehouse Building North End & West Side	Brown / Black Insulation	(B)	Poor	High	None
05C	Open Hearth Warehouse Building North End & West Side	Grey / Brown Aircell Insulation	(B)	Poor	High	% 09
06A	Open Hearth Warehouse Building North End & West Side	Black Tar Paper	(B)	Poor	High	25 %
06B	Open Hearth Warehouse Building North End & West Side	Brown / Black Insulation	(B)	Poor	High	None
D90	Open Hearth Warehouse Building North End & West Side	Grey / Brown Aircell Insulation	(B)	Poor	High	% 09

ASBESTOS INSPECTION QUESTIONNAIRE

DATE of inspection: 10-19-17 INSPECTOR: Edgar King
CLIENT: CEL
LOCATION: Mingo Junction Steel worth End Blogs (Open Hourth Blog
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 No Foot Acces, Looked Like only fusty metal
The building is currently Occupied Unoccupied
The general condition of the building is Good Fair Poor
Number of buildings included in the survey/
Number of floors in the building
Main exterior building component (i.e. yellow brick, concrete block, etc) mctals idiws
Please answer yes or no.
Was the basement included? NA Was the attic included? 6VA
Was the roof included?NOT Accessed Is a map included?
Were any areas inaccessible? 703 If yes, explain Poot Too high
Were any areas inaccessible? Yes If yes, explain Root Two high Were you accompanied by anyone Yes If yes, who Dennis Smith
Were any commonly found materials, not present? (Floor tile, plaster, window caulking, etc)? If yes, list and explain
Any other important / relevant observations:

Appendix B – Sample Location Diagram



Appendix C – Laboratory Analysis Results



5320 N. Pioneer Road Gibsonia, PA 15044 Phone: 724-444-3460 Fax: 724-444-3463

117101966

Chain of Custody Form

CAMDIE	LAB ID NUMBER	TYPE OF ANALYSIS	TURNAROUND TIME
SAMPLE		PLM Asbeofos	5tondard.
01			
06		2.11	100 10 21
Project Site: Mrngo Junction North	end Blogs westen Sampler Si	gnature: Lef J B	JN#_CEC-17-21
Client / Address: CEC		Filone.	
Relinquished By: Edgar King	Date: 10 - 28	<u>-17</u> Time: <u>0854</u>	
Relinquished By: Elgar King Relinquished By: Bu	ud Date: 10/23/	117 Time: 9300r	<u>n</u>
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



AmeriSci Richmond

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

FACSIMILE TELECOPY TRANSMISSION

To: Tim Daniels

From: John S. Shearwood

Mid Atlantic Environmental Consultants, Inc

MIDATLANTIC@ZOOMINTERNET.NET

AmeriSci Job #: 117101966

Fax #:

Email:

Subject:

PLM 5 day Results

Client Project:

CEC-17-21; CEC; Mingo Junction

Northend Bldgs Weirton Open

Hearth Warehouse

Date: Saturday, October 28, 2017

Number of Pages:

(including cover sheet)

Time: 12:52:07

Comments:

OCT 3 0 2017

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PLM Bulk Asbestos Report

Mid Atlantic Environmental Consultants, Date Received

Date Examined

AmeriSci Job # 10/24/17

117101966

Attn: Tim Daniels

Gibsonia, PA 15044

5320 North Pioneer Road

10/28/17

P.O. #

Page

1 of

RE: CEC-17-21; CEC; Mingo Junction Northend Bldgs Weirton

Open Hearth Warehouse

	HGA	Lab No.	Asbestos Present	Total % Asbestos
01		117101966-01	No	NAD
	Location: Open Hear Water	h Warehouse Bldg 8" Eas	t Pipe Metal Side Rack Coated Portable	(by CVES) by John S. Shearwood on 10/28/17
Asbesto	scription: Yellow/Beige/Silve os Types: Material: Cellulose 2 %, Fib			
02	* *************************************	117101966-02	No	NAD
	Location: Open Hear Water	th Warehouse Bldg 8" Eas	st Pipe Metal Side Rack Coated Portable	(by CVES) by John S. Shearwood on 10/28/17
Asbeste Other	scription: Yellow/Beige/Silve os Types: Material: Cellulose 2 %, Fit	rous glass 90 %, Non-fib	rous 8 %	
03	Location: Open Hear Water	117101966-03 th Warehouse Bldg 8* Ea	No st Pipe Metal Side Rack Coated Portable	NAD (by CVES) by John S. Shearwood
				on 10/28/17
Asbest	scription: Yellow/Beige/Silve os Types: Material: Cellulose 2 %, Fil			•
Asbest Other	os Types:			•
Asbest Other	os Types: Material: Cellulose 2 %, Fil	prous glass 90 %, Non-fib	rous 8 %	on 10/28/17
Asbest Other O4 Analyst De Asbest	os Types: Material: Cellulose 2 %, Fil	orous glass 90 %, Non-fib 117101966-04L1 rth Warehouse Bldg 8" Ea	rous 8 %	on 10/28/17 55 % (by CVES) by John S. Shearwood
Asbest Other O4 Analyst De Asbest	Location: Open Heaseription: Black, Heterogeneos Types: Chrysotile 55.0 %	orous glass 90 %, Non-fib 117101966-04L1 rth Warehouse Bldg 8" Ea	rous 8 %	on 10/28/17 55 % (by CVES) by John S. Shearwood
Asbest Other O4 Analyst De Asbest Other	Location: Open Heaseription: Black, Heterogeneos Types: Chrysotile 55.0 % Material: Non-fibrous 45 %	117101966-04L1 th Warehouse Bldg 8" Ea Bous, Fibrous, Tar Paper	Yes st Pipe North End And West Side	55 % (by CVES) by John S. Shearwood on 10/28/17

See Reporting notes on last page

Other Material: Animal hair 90 %, Cellulose 10 %

Asbestos Types:

Client Name: Mid Atlantic Environmental Consultants, Inc

PLM Bulk Asbestos Report

CEC-17-21; CEC; Mingo Junction Northend Bldgs Weirton Open Hearth Warehouse

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
	117101966-04L3 en Hearth Warehouse Bldg 8" Eas		60 % (by CVES) by John S. Shearwood on 10/28/17
Asbestos Types: Chrysotile Other Material: Non-fibrou		uon	
05 Location: Op	117101966-05L1 en Hearth Warehouse Bldg 8" Eas	Yes st Pipe North End And West Side	55 % (by CVES) by John S. Shearwood on 10/28/17
Analyst Description: Black, Hei Asbestos Types: Chrysotile Other Material: Non-fibrou	55.0 %		
05 Location: Op	117101966-05L2 pen Hearth Warehouse Bldg 8* Eas	No st Pipe North End And West Side	NAD (by CVES) by John S. Shearwood on 10/28/17
Analyst Description: Brown/Bla Asbestos Types: Other Material: Animal ha	ack, Heterogeneous, Fibrous, Insulair 90 %, Cellulose 10 %	ation	
05 Location: O	117101966-05L3 pen Hearth Warehouse Bldg 8" Ea	Yes st Pipe North End And West Side	60 % (by CVES) by John S. Shearwood on 10/28/17
Analyst Description: Gray/Brov Asbestos Types: Chrysotile Other Material: Non-fibro		ation	
	117101966-06L1 pen Hearth Warehouse Bldg 8" Ea	Yes ast Pipe North End And West Side	55 % (by CVES) by John S. Shearwood on 10/28/17
Analyst Description: Black, He Asbestos Types: Chrysotil Other Material: Non-fibro			
	117101966-06L2 pen Hearth Warehouse Bldg 8" Ea		NAD (by CVES) by John S. Shearwood on 10/28/17
Analyst Description: Brown/B Asbestos Types: Other Material: Animal h	lack, Heterogeneous, Fibrous, Insu	ılation	

AmeriSci Job #: 117101966

Client Name: Mid Atlantic Environmental Consultants, Inc.

Page 3 of 3

PLM Bulk Asbestos Report

CEC-17-21; CEC; Mingo Junction Northend Bldgs Weirton Open Hearth Warehouse

Client No. / HGA

Lab No. Asbestos Present

Total % Asbestos

117101966-06L3

Yes

Location: Open Hearth Warehouse Bldg 8" East Pipe North End And West Side

(by CVES)

by John S. Shearwood
on 10/28/17

Analyst Description: Gray/Brown, Heterogeneous, Fibrous, Insulation

Asbestos Types: Chrysotile 60.0 %
Other Material: Non-fibrous 40 %

Reporting Notes:

Analyzed by: John S. Shearwood & Shearwood Date: 10/28/2017 Reviewed by:

*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

License #

AI009156

Issued: Expires:

3/13/2017

IS LICENSED AS AN **ASBESTOS INSPECTOR**

3/31/2018 Whele. m-A

Director WV OEHS



WEST VIRGINIA

Asbestos Program

Timothy E. Daniels

License # AD003952 10/10/2017

Issued:

IS LICENSED AS AN ASBESTOS PROJECT DESIGNER

Expires: 10/31/2018

m. Aveg Walter

Director WV OEHS



WEST VIRGINIA

Asbestos Program

Mid-Atlantic Environmental Consultants, Inc.

LT000563 ASBESTOS LABORATORY - 5/31/2017 AIR AND BULK

5/31/2017 5/31/2018

Expires: issued:

Director WV OEHS

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

Expires: 5/31/2018

5/31/2017

Walter M. Ivey, Director
Office of Environmental Health Services

