



PINNACLE ENVIRONMENTAL CONSULTANTS, INC.

CORPORATE OFFICE: 486 OLD STATE RT. 74 CINCINNATI OHIO 45244 PHONE: 513-533-1823 FAX: 513-533-1859
2088 ROSS AVENUE CINCINNATI OHIO 45212 PHONE: 513-533-1823 FAX: 513-533-1859
400D PRESTIGE PARK HURRICANE WEST VIRGINIA 25526 PHONE: 304-757-5204 FAX: 304-757-5205

February 8, 2016

Ms. Melissa S. Johnson
Director of Industrial Development and Logistics
Port of Greater Cincinnati
3 East Fourth Street, Suite 300
Cincinnati, OH 45202

RE: Background Air Monitoring for Airborne Fiber Concentrations - Former Hudepohl Site at 801 West Sixth Street in Cincinnati, Ohio
Pinnacle PN: 15-0160

Dear Ms. Johnson:

On December 29, 2015, Ms. Kati Massey of Pinnacle Environmental Consultants, Inc. (Pinnacle) visited the former Hudepohl Brewery site located at 801 West Sixth Street in Cincinnati, Ohio to conduct background air sampling in specified locations around the perimeter of the building to measure airborne concentrations of fibers. Air monitoring was conducted in accordance with requirements detailed in the Continuing Obligations Plan developed by Pandey Environmental, LLC on May 9, 2014. Specifically, the plan requires that the site operator “perform downwind and perimeter air monitoring to quantify any releases of airborne asbestos particles.” To insure compliance with this stipulation, air samples were collected from the North, South, East and West boundaries of the property and analyzed by Phase Contrast Microscopy (PCM). PCM is the air sample analysis method stipulated by OSHA and the method generally used for measuring airborne concentrations of airborne fibers associated with the presence of asbestos. Descriptions of the locations of the air samples and associated results are summarized on the table provided in Attachment 2 to this letter, while a site plan indicating the air sample locations and the direction of prevailing winds on the day of the sampling is included in Attachment 4.

Ms. Melissa S. Johnson

February 8, 2016

Page 2

The four (4) PCM air samples were collected from specified locations outlined in the Continuing Obligations Plan, including around the perimeter of the property as well as in the path of the prevailing wind. Wind speeds during the time of the sampling event were between 11 and 14 miles per hour and originated from the Southwest end of the property. All air samples were collected and analyzed in accordance with NIOSH Method 7400, using Phase Contrast Microscopy (PCM).

The air samples were collected utilizing battery operated personal air sampling pumps calibrated to a flow rate of 3 liters of air per minute, a rate which was established before the sampling period and confirmed upon completion of the air sampling with a precision rotameter. Air samples were collected over a period of a full day (≥ 6 hours) for the purpose collecting a significant volume of air and therefore a reliable evaluation of the airborne fiber concentrations present in the vicinity of the affected site.

Analyses of the background air samples by PCM indicated airborne fiber concentrations of <0.0022 fibers per cubic centimeter (f/cc). Two of the samples collected 0.0 total fibers while one showed 1.5 fibers and the last had 0.5 fibers present. While there are no acceptable background airborne fiber levels established by regulation in Ohio, the level of 0.01 f/cc is the "post asbestos abatement" clearance criteria and is generally accepted as a reliable criteria for background airborne fiber concentrations. The laboratory reports for the PCM air sample analyses are included in Attachment 3 to this letter

It should be noted that during air samples analyses by PCM, all fibers on the filter which meet specified size criteria, are counted without consideration as to whether they are asbestos fibers or not. Although the analyses conducted for this project identified the presence of fibers on two of the samples collected and analyzed from this site, it is not possible to conclude that the fibers that were observed were definitely asbestos fibers or other interfering fibers, such as cellulose or fiberglass.

The Continuing Obligations Plan indicates a requirement for the air sampling to be repeated every three months until such time that there are no asbestos fibers detected during three sampling events or until all loose asbestos has been removed from the buildings and exterior debris piles covered. As there were fibers detected during this sampling event and the required work related to the loose asbestos and the debris piles has not been completed, air sampling must be conducted again no later than March 29, 2016.

Ms. Melissa S. Johnson

February 8, 2016

Page 3

Pinnacle greatly appreciates the opportunity to provide these services to you and the Port of Greater Cincinnati for this most important project. Should you have any questions or require additional information, please feel free to contact us at your convenience.

Sincerely,

Pinnacle Environmental Consultants, Inc.

Michael D. Strine

Michael D. Strine

Vice President

Attachments (4)

Attachment 1
PINNACLE'S PERSONNEL CERTIFICATIONS



OHIO DEPARTMENT OF HEALTH

246 North High Street
Columbus, Ohio 43215

John R. Kasich/Governor

614/466-3543
www.odh.ohio.gov

Richard Hodges/Director of Health

January 28, 2015

Kati E Massey
Pinnacle Environmental Consultants, Inc.
486 Old State Route 74
Cincinnati OH 45244

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES35863
Expiration Date: 01/28/2016

Dear Kati E Massey:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of Health for violation of any of the requirements of 3701-34 of the Ohio Administrative Code.

If you have any questions, please call Jackie Jackson, Licensure Specialist, at 614-644-0226.

Sincerely,

David Holston, Chief
Environmental Abatement Section
Bureau of Information and Operational Support
Division of Quality Assurance



Attachment 2

PCM AIR SAMPLE SUMMARY TABLE

PCM AIR SAMPLE SUMMARY

FORMER HUDEPOHL SITE
801 WEST 6TH STREET
CINCINNATI, OH 45202

BACKGROUND AIR MONITORING

Sample #	Date	Sample Location	Activity	Start Time	Stop Time	Total	Flow Start	Flow Stop	Air Volume	Fibers	Fields	Fibers/CC
15-H1	12/29/2015	South face of property - 5 feet from bottom of chain link fence	BKGD	9:04	3:44	400	3	3	1200	0.0	100	<0.0022
15-H2	12/29/2015	East face of property - 5 feet from bottom of chain link fence	BKGD	9:07	4:18	400	3	3	1200	0.0	100	<0.0022
15-H3	12/29/2015	North face of property - 5 feet up from bottom of lock gate	BKGD	9:09	3:49	400	3	3	1200	1.5	100	<0.0022
15-H4	12/29/2015	West face of property - 5 feet from bottom of chain link fence	BKGD	9:15	3:55	400	3	3	1200	0.5	100	<0.0022
15-H5	12/29/2015	Field Blank	n/a	---	---	---	---	---	---	0	100	---
15-H6	12/29/2015	Field Blank	n/a	---	---	---	---	---	---	0	100	---

KEY TO ABBREVIATIONS:

BKGD = Background

Attachment 3

PCM LABORATORY REPORT AND SAMPLE CHAIN-OF-CUSTODY

AIR SAMPLE ANALYSIS REPORT*

Pinnacle Environmental Consultants, Inc.
Analytical Division (WV LT000525)
400D Prestige Park
Hurricane, WV 25526
(304) 757-5204

Client: Pinnacle Environmental Consultants, Inc.
 Job No.: 15-0160
 Analyst: Miranda Reedy
 Date Analyzed: 12/31/2015
 Date Sampled: 12/29/2015
 Blank Count(fibers/fields): 0

Laboratory Coefficient of Variation = 0.37

Hudepohl Brewery Perimeter Air Monitoring

Sample Identification	Sample Description	Laboratory ID Number	Total Fibers	Total Fields	Volume (Liters)	Concentration (Fibers/cc)	90% Upper Confidence Limit	
							(Fibers)	(F/cc)
15-H1		15WA-10302	0.0	100	1200.00	<0.0022	-	-
15-H2		15WA-10303	0.0	100	1200.00	<0.0022	-	-
15-H3		15WA-10304	1.5	100	1200.00	<0.0022	1.8	<0.002
15-H4		15WA-10305	0.5	100	1200.00	<0.0022	0.5	<0.002
15-H5	FB	15WA-10306	0.0	100	N/A	-	-	-
15-H6	FB	15WA-10307	0.0	100	N/A	-	-	-

*Phase Contrast Microscopy (OSHA Reference Method/NIOSH 7400), Limit of Detection: 5.5 fibers/100 fields

Abbreviations: DMGD-Damaged; FB-Field Blank; NR-Not Received; SPI-Significant Particle Interference

NOTES: 1) Field blank count greater than .07 fibers/field indicates possible sample contamination.

2) Concentration value (column 7) in bold italics indicates greater than normal analytical variability.

3) A '<' symbol preceding the concentration indicates that the sample is below the limit of detection.

4) Concentration value based on volume calculation submitted with samples.

All PCM Cassettes will be held for thirty (30) days unless otherwise requested by client.

Miranda Reedy

Analyst Sign.: _____

Chain of Custody Form

**PINNACLE ENVIRONMENTAL CONSULTANTS, INC.**

☐ 400D Prestige Park, Hurricane, WV 25526 P: (304) 757-5204 F: (304) 757-5205

 486 Old State Rt 74, Cincinnati, OH 45244 P: (513) 533-1823 F: (513) 533-1859

REQUEST FOR ANALYTICAL LABORATORY SERVICES

DATE RESULTS REQUESTED: 11/4/19

RUSH CHARGES AUTHORIZED: ☐ YES ☒ NO

**REPORT
RESULTS
TO**

NAME: Kati Massey

COMPANY: Pinnacle Environmental Consultants, Inc.

ADDRESS: 486 Old State Route 74

CITY, STATE, ZIP: Cincinnati, OH 45244

TELEPHONE: (513) 533-1823 FAX: (513) 533-1859

EMAIL: kmassev@pinnacleinc.biz

**SEND
INVOICE
TO**

NAME: _____

COMPANY:**ADDRESS:**

CITY, STATE, ZIP:

PURCHASE ORDER #:

CLIENT JOB #: 15-0160

***Point Counts performed per client request**

[illegible]

5-0160RE: Hudson Brewery strike for Ask master/line

DATE/TIME ANALYZE TO THE POSITIVE? ☐ YES ☐ NO

CHAIN OF CUSTODY

COLLECTED BY: KATHA - JF (print)

RELINQUISHED BY: *Kat Tinsley*

RELINQUISHED BY: _____

RECEIVED AT LAB BY: Myranda Reed

42615

Collector's Signature: KAD WADA 5/

RECEIVED BY:

RECEIVED BY:

Sample Condition Upon Receipt: ☒ Accept ☐ Deny

* Samples will be held for thirty (30) days after analysis date, unless otherwise requested by the client*

Page ____ of ____

AIR SAMPLING DATA SHEET

PINNACLE GREEN ENVIRONMENTAL CONSULTANTS, INC.

486 Old State Route 74
Cincinnati, Ohio 45244

Project Number: 15-01160 Project Name: Harkness Hall Renovation Building Location: Hall in 6th fl. Activity: Demolition of the
Project Number: Project Name: Building Location: Activity:

[illegible]

Sampling Technician:
Sampling Technician:

Calibration Equipment:

PR - 01011

Attachment 4
SAMPLE LOCATION SITE PLAN

Former Hudepohl Brewery
801 West Sixth Street
Cincinnati, Ohio

WEST SIXTH STREET



15-H3

Bottling and Wash House
Racking and Fermentation House

(engine room)
New Boiler House
Stack (boiler room)

Coal Chute

Former Stone Street

Cincinnati Belt and Transmission

Bottling and Wash House

Shipping Yard

Old Boiler House

New Brew House

Coal Chute

15-H2

Asphalt Parking Lot

Former Carlisle

15-H1

15-H4



PREVAILING WINDS
12/29/16