



CTG Environmental, LLC

Professional Consulting Services

December 4, 2014

[REDACTED]
Environmental Chemical Corporation
1240 Bayshore Highway
Burlingame, California 94010

Re: Project monitoring during the removal of asbestos containing floor tile, transite panels and pipe insulation on the 1st and 2nd floors and exterior of building G1 at the Harshaw Chemical Company located at 1000 Harvard Avenue in Cleveland, Ohio (CTG #: 14377)

Dear [REDACTED],

On November 19-24, 2014, [REDACTED], an industrial hygienist and State of Ohio licensed asbestos hazard evaluation and abatement specialist associated with CTG Environmental, LLC (CTG), was on site representing Environmental Chemical Corporation (ECC) while performing asbestos project monitoring. These services were performed during the removal of asbestos-containing (ACM) floor tile, transite panels, and pipe insulation. These ACM materials were located in Building G1 in Rooms 2-1, 2-4, and on the exterior at the Harshaw Chemical Company located at 1000 Harvard Avenue in Cleveland, Ohio.

Diamond Services, Inc. (Diamond) was responsible for determining the location, quantity, and removal of ACM to be removed, which was predetermined by the site owner and identified to the abatement contractor. Duties performed by CTG as part of the project monitoring included area and final clearance air sampling, preliminary and final visual evaluations of the regulated areas, and oversight of the abatement contractor's work practices.

The abatement work occurred in rooms 2-1 and 2-4 located on the 1st and 2nd floors, and on the exterior of building G1. The floor tiles abated were located in rooms 2-1 and 2-4. The ACMs were being removed prior to the planned demolition of the building by mechanical means. Approximately 1,489 square feet of floor tile was abated. Approximately 160 square feet transite in building G1 was removed. Approximately 120 linear feet of pipe insulation was removed from the exterior of building G1. Signs saying "Asbestos Danger" and red caution tape were used to demarcate the regulated areas. There were no specifications for this project. Ohio Department of Health and Federal asbestos regulations were applicable. Diamond sent revised notifications to the regulatory agencies to account for changes in the scope of the project.

The air sampling was performed to determine fiber concentrations during and after the ACM removal. CTG collected ten (10) area and three (3) final air samples and one (1) field blank that were analyzed by phase contrast microscopy (PCM). The PCM air samples were collected by standard industrial hygiene practices. Air was drawn through a 25-millimeter (mm) diameter, 3 piece cassette with 50 mm extension cowl made from non-conductive, carbon-filled polypropylene. The filter was made from 0.8 micrometer porosity, mixed cellulose ester (MCE), supported by a cellulose pad fitted into the base section of the cassette. High and low volume air sampling pumps with variable flow adjusters were utilized for sample collection. The air sampling pumps were calibrated prior to and following the air sampling with a rotometer.

The PCM samples were analyzed using the National Institute of Occupational Safety and Health (NIOSH) Method 7400. [REDACTED] of CTG, who has completed the NIOSH 582 equivalent class "Analyzing Airborne Fibers", performed the analysis.

The results of the air samples are provided on the air monitoring data sheets which are included as an attachment with this letter report and in the following table.

Sample Number	Location	Type	Fibers/Field	Result (f/cc)
377 112014 01	1 st floor s. floor tile area	Area	4/100	<0.008
377 112014 02	1 st floor w. floor tile area	Area	6/100	<0.008
377 112014 03	Control point entrance	Area	7/100	<0.008
377 112014 04	Field blank	Blank	0/100	N A
377 112114 01	Inside s. area floor tile 1 st	Final clearance	3/100	<0.008 (PASS)
377 112114 02	Inside e. area floor tile 1 st	Final clearance	4/100	<0.008 (PASS)
377 112114 03	Inside w. area floor tile 1 st	Final clearance	4/100	<0.008 (PASS)
377 112114 04	Field blank	Blank	0/100	N A
377 112114 05	South exterior G1 SE of east side	Area	3/100	<0.008
377 112114 06	East exterior G1 N of NE side	Area	3/100	<0.008
377 112114 07	East exterior G1 @ truck scales SW	Area	4/100	<0.008
377 112414 01	G1 exterior @ trailer n. of scales	Area	4/100	<0.008
377 112414 02	G1 exterior east wall , fire escape	Area	5/100	<0.008
377 112414 03	G1 exterior, s. fence	Area	3/100	<0.008
377 112414 04	Field blank	Blank	0/100	N A
377 112414 05	G1 exterior @ s. fence, e. side	Area	3/100	<0.008

Harshaw Chemical Company
1000 Harvard Avenue, Cleveland, Ohio

After Diamond indicated that gross removal and fine cleaning within the regulated areas were completed, CTG performed a final visual evaluation. CTG visually evaluated the areas to identify dust and debris remaining on the walls, floors and other associated surfaces and observed them to be acceptable. CTG performed a final clearance air testing in the regulated area inside building G1 where the floor tile had been removed. The final air results were below the regulatory limit of 0.01 fibers/cc.

Enclosed, please find copies of the air monitoring data sheets, final abatement checklists, field notes, and the asbestos inspector Ohio license. If you should have any questions regarding this letter report, please contact our office.

Sincerely,

A large black rectangular redaction box covering the signature of the sender.A small black rectangular redaction box covering the name of the sender.

President

Enclosures



CTG Environmental, LLC.

Professional Consultants

DATE: 11/19/14

SITE: Harshaw Chemical 1000 Harshaw Ave

CLIENT: ECC

CONSULTANT: [REDACTED]

CTG PROJECT MANAGER: [REDACTED]

JOB NUMBER: 14377

DESCRIPTION OF WORK: Removing Floor tile, pipe insulation, Transite.

TIME

GENERAL OBSERVATIONS

700 AM @ Site. Diamond has 3 men.

800 A General Safety Meeting.

Radiological Safety Meeting.

1000 A

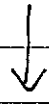
Contractor goes to get more supplies.
etcetera

100 P more supplies delivered to site.

Diamond men are getting fit tests.

145 ECC is doing safety checks on
Diamond's equipment.

245



Diamond did JLG Training.

300

CTG Environmental, LLC.



Client: ECC

Job #

14377

Location:

HARSHAW CHEMICAL ¹⁰⁰⁰ HARVAEL

Date:

11 20 14

Contractor:

DIAMOND SERVICES

Total # of Samples

4

Industrial Hygienist

Signature

Sample Number	Sample Type	Sample Location	Start Time/flow	Stop Time/flow	Total Time (min)	Volume (liters)	Fibers/fields	f/cc	Pump ID	Remarks
377 1120141	AS O	1st Floor South SIDE floor tile area	845 2.0	200 2.0	315	630	41100	< 0.008	L 12	
377 1120142	AS O	1st Floor West SIDE of Building	900 2.0	200 2.0	300	600	61100	< 0.008	L 121	
377 1120143	AS O	At Control Point Entrance	900 2.0	200 2.0	300	600	71100	< 0.008	L 122	
377 1120144	B B	Field Blank	0 0	0 0	-	-	01100	NA	-	

KEY

AM-AMBIENT
AS-AREA
PS-PERSONAL
FC-FINAL CLEARANCE
(REVISED 5/01)

I-INSIDE WORK AREA
O-OUTSIDE WORK AREA
B-BLANK

COMMENTS

PCM
MCE
0.8-II



CTG Environmental, LLC.

Professional Consultants

DATE: 11 20 14 T

SITE: Harshaw Chemical 1000 Harwood

CLIENT: ECC AU.

CONSULTANT [REDACTED]

CTG PROJECT MANAGER: [REDACTED]

JOB NUMBER: 14377

DESCRIPTION OF WORK: Removing Floor tile in Bldg G1
Intact.

TIME

GENERAL OBSERVATIONS

700 AM @ Site. Diamond has 3 men.
waiting for Hazmat. Safety Meeting.
800 Go to office to get more pumps.
845 Return
910 Calibrate, start area pumps inside G1.
Diamond suited up + follow Radiation Safety
ESCORT to Floor Tile work area, G1.
1010 Remove floor tile intact & bag up.
Temperature 15 25 °F.
1110 Remove Floor tile in G1.
1145 SAME Activity.
200 bagging floor tiles in G1,
2 MEN will put in gaylords on pallets.
Radiation techs. are working in a different part
of G1.
Pumps off

CTG Environmental, LLC.



Client: ECC

Location: 1000 Harvard Ave
HARSHAW Chemical

Job # 14377

Date: 11 21 14

Contractor: Diamond Services

Total # of Samples 7

Industrial Hygienist

Signature

Sample Number	Sample Type	Sample Location	Start Time/flow	Stop Time/flow	Total Time (min)	Volume (liters)	Fibers/fields	f/cc	Pump ID	Remarks
377 1121141	FC/1	Inside S. area of floor tile 1st	1000 10.0	1100 10.0	60	600	3/100	< 0.008	H ₁₅	
377 1121142	FC/1	Inside E. area of floor tile 1st	1000 10.0	1100 10.0	60	600	4/100	< 0.008	H ₁₉	
377 1121143	FC/1	Inside W. area 1st of floor tile	1000 10.0	1100 10.0	60	600	4/100	< 0.008	H ₁₂	
377 1121144	B/B	Field blank	0 0	0 0	0	0	0/100	NA	-	
377 1121145	AS/0	South Exterior GI SE on East side	1145 2.0	420 2.0	275	550	3/100	< 0.008	L 121	
377 1121146	AS/0	East Exterior GI 15' N. of NE side	1145 2.0	420 2.0	275	550	3/100	< 0.008	L 122	
377 1121147	AS/0	East Exterior @ Track scales of SW of GI	1145 2.0	420 2.0	275	550	4/100	< 0.008	L 123	

COMMENTS

PCM
MCE
0.8

KEY
AM-AMBIENT
AS-AREA
PS-PERSONAL
FC-FINAL CLEARANCE
(REVISED 5/01)

I-INSIDE WORK AREA
O-OUTSIDE WORK AREA
B-BLANK



CTG Environmental, LLC

FINAL ABATEMENT CHECK LIST

Page 1 of 2

Building HARSHAW G1 Date 11/21/14
Location G1 Floor Tile, Transit
Project Description 1000 HARVARD AVE.
Removing loose Floor Tile, transit, inside
building G1
Company Performing Abatement Diamond Services Inc
Inspector/Signature [Redacted]
Title [Redacted]
Accompanied by Vince Brown Title Worker
Time of Inspection Start/Stop 900 - 1000 am

A. VISUAL INSPECTION OF WORK AREA

The following areas have been wet cleaned and/or HEPA vacuumed and appear to contain no residual dust or debris:

WORK SITE INSPECTION

	Acceptable	Not Applicable	Problems Encountered/Comments
1. Floors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Walls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Windows ledges	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Pipes			
a. Vertical	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Horizontal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Pipe Hangers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Ventilation Equipment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Ducts	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Registers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Lights	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Conduit and wires	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Sprinkler heads	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Fire alarms	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12. Electrical panels and boxes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
13. All other horizontal surfaces	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
14. All other vertical surfaces	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
15. Removal equipment remaining in work area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
16. Areas adjacent to work site barrier	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

B. ENCAPSULATION

1. Has encapsulant been used? ☐ yes ☒ no

2. Name of encapsulant used _____

C. Have all bags of waste been properly labeled and removed from the work area? ☒ yes ☐ no

**D. FINAL AIR SAMPLING**

1. Sample I.D. number(s) 3771121141 - 3771121144
2. Were samples analyzed on site? ☐ yes ☒ no
3. If yes, person performing analysis [redacted] Title IH
4. Was a blank submitted? ☒ yes ☐ no
5. Is electron microscopy required? ☐ yes ☒ no
6. What is the specified final clearance level (f/cc)? <0.01
7. Were HEPA ventilation units run during the taking of final air samples? ☐ yes ☒ no
8. Were any other aggressive sampling techniques used? ☐ yes ☒ no
Describe _____

E. RESULTS OF VISUAL INSPECTION

The work area was found to be acceptably free of residual dust and debris. ☒ yes ☐ no

Inspector [redacted] Signature [redacted]
Date 11 21 14 Time 1000 AM

F. RESULTS OF AIR TEST(S)

The results of final air samples

Sample I.D.	Results (f/cc)
<u>3771121141</u>	<u>10.008</u>
<u>3771121142</u>	<u>10.008</u>
<u>3771121143</u>	<u>10.008</u>
<u>3771121144</u>	<u>blank</u>

Are these results below the final clearance level? ☒ yes ☐ no

Has the work area been released? ☒ yes ☐ no

Notification given to [redacted] Title Supervisor

Date and time of notification 11 21 14 2 pm

Microscopist [redacted] Signature [redacted]



CTG Environmental, LLC.

Professional Consultants

DATE: 11 21 14

SITE: HARSHAW CHEMICAL 1000 HARVARD AVE.

CLIENT: ECC

CONSULTANT

CTG PROJECT MANAGER:

JOB NUMBER: 14377

DESCRIPTION OF WORK:

Removing Floor Tile, Transite,
2 pipe insulation. IN G1.

TIME

GENERAL OBSERVATIONS

700 AM @ SITE. Diamond has 3 men.
SAFETY meeting.

730 A 2 Diamond men putting bags in gaylords
in G1. These Remain for Radiation
clearance, for now. 26°F Temperature

830 Moving bags into gaylords in G1.

930 Do visual. Pass

1000 Begin AIR testing; calibrate, start pumps.

1100 calibrate, stop pumps.

Do PCM work

100 PCM PASSES - G1

Diamond doing wrap cut & glove bags on
East side of G1, exterior. Using JLG.

300 Removing exterior transite

430 EXIT



CTG Environmental, LLC.



Client: ECC

Job #

14377

Location:

HARSHAW CHEMICAL GT

Date:

11 24 14

Contractor:

Diamond Services

Total # of Samples

4 + 1 = 5

Industrial Hygienist

Signature

Sample Number	Sample Type	Sample Location	Start Time/flow	Stop Time/flow	Total Time (min)	Volume (liters)	Fibers/fields	f/cc	Pump ID	Remarks
377 1124141	AS/O	GA exterior @ Trailer N. of scales	8:00 2.0	8:00 2.0	360	720	4/100	L 0.008	L 12	
377 1124142	AS/O	GA exterior @ E. wall near E. side escape	8:00 2.0	8:00 2.0	360	720	5/100	L 0.008	L 122	
377 1124143	AS/O	GA exterior @ S. fence E. side	8:00 2.0	8:00 2.0	360	720	3/100	L 0.008	L 123	
377 1124144	B/B	Field blank	0 0	0 0	0	0	0/100	NA	-	
377 1124145	AS/O	GA exterior @ S. fence E. side	3:00 2.0	4:30 2.0	90	180	3/100	L 0.008	L 12	

KEY

AM-AMBIENT
AS-AREA
PS-PERSONAL
FC-FINAL CLEARANCE
(REVISED 5/01)

COMMENTS

RCM
MCE
0.8-11

I-INSIDE WORK AREA
O-OUTSIDE WORK AREA
B-BLANK



CTG Environmental, LLC

FINAL ABATEMENT CHECK LIST

Page 1 of 2

Building HARSHAW 61 Date 11 24 14
Location South East Exterior Piping 1 Interior 20'
Project Description Removing pipe T&I using glovebags.

Company Performing Abatement Diamond Services
Inspector/Signature [Redacted]
Title IH
Accompanied by No one Title _____
Time of Inspection Start/Stop 3:00 pm

A. VISUAL INSPECTION OF WORK AREA

The following areas have been wet cleaned and/or HEPA vacuumed and appear to contain no residual dust or debris:

WORK SITE INSPECTION

	Acceptable	Not Applicable	Problems Encountered/Comments
1. Floors	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Walls	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Windows ledges	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Pipes			
a. Vertical	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Horizontal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Pipe Hangers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Ventilation Equipment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Ducts	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Registers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Lights	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Conduit and wires	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Sprinkler heads	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Fire alarms	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12. Electrical panels and boxes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
13. All other horizontal surfaces	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
14. All other vertical surfaces	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
15. Removal equipment remaining in work area	<input type="checkbox"/>	<input type="checkbox"/>	
16. Areas adjacent to work site barrier	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

B. ENCAPSULATION

1. Has encapsulant been used? ☐ yes ☒ no

2. Name of encapsulant used _____

C. Have all bags of waste been properly labeled and removed from the work area? ☒ yes ☐ no



D. FINAL AIR SAMPLING

Glove bags used

1. Sample I.D. number(s) _____
2. Were samples analyzed on site? ☐ yes ☐ no
3. If yes, person performing analysis _____ Title _____
4. Was a blank submitted? ☐ yes ☐ no
5. Is electron microscopy required? ☐ yes ☐ no
6. What is the specified final clearance level (f/cc)? _____
7. Were HEPA ventilation units run during the taking of final air samples? ☐ yes ☐ no
8. Were any other aggressive sampling techniques used? ☐ yes ☐ no
Describe _____

E. RESULTS OF VISUAL INSPECTION

The work area was found to be acceptably free of residual dust and debris. ☒ yes ☐ no

Inspector _____ Signature _____

Date 11 24 14 Time 400-430 pm

F. RESULTS OF AIR TEST(S)

The results of final air samples

Glove bags
Used

Sample I.D.	Results (f/cc)
_____	_____
_____	_____
_____	_____
_____	_____

Are these results below the final clearance level? ☐ yes ☐ no

Has the work area been released? ☐ yes ☐ no

Notification given to _____ Title Supervisor

Date and time of notification 400 pm

Microscopist _____ Signature _____



CTG Environmental, LLC.

Professional Consultants

DATE: 11 24 14 M

SITE: HARSHAW CHEMICAL G1
1000 HARVARD AVE

CLIENT: ECC

CONSULTANT

CTG PROJECT MANAGER:

JOB NUMBER: 14377

DESCRIPTION OF WORK:

Removing pipe insulation, exterior,
on G1 using glovebag + wrap, cut,
in a JLG. S.E.

TIME

GENERAL OBSERVATIONS

700 AM @ Site. Diamond has 3 men.
SAFETY MEETING
730 Set up JLG to remove piping S.E.
corner, G1, exterior, near roof.
WINDY Today. Safety Man inspects JLG.
8 Pumps on in area.
835 Glovebagging TSI near roof. S.E.
Wearing All PPE. Danger tape around the JLG.
10 WINDY. Glovebagging TSI Again.
11 Removing TSI @ fire escape, S.E., 15' high.
Filling gaylord boxes.
1145 Removing @ fire escape, S.E.
1245 " TSI right above escape now w/ G.B.
200 Finish this area.
220 Found 20 L.F. inside, extra work. use G.B.
430 Finished.





CTG Environmental, LLC

Professional Consulting Services

State of Ohio
Department of Health
Asbestos Program

Asbestos Hazard Evaluation Specialist

 
CTG Environmental LLC
4407 Brookpark Rd
Cleveland OH 44134

Certification Number **Expiration Date**
AS2910 **08/14/2016**



DOB: 01/02/1962

This certification is issued pursuant to Chapter 3701 of the Revised Code and 3701-34 of the Ohio Administrative Code

Certification Card is not valid if altered

State of Ohio
Department of Health
Asbestos Program

Asbestos Hazard Abatement Specialist

 
CTG Environmental LLC
4407 Brookpark Rd.
Cleveland OH 44134

Certification Number **Expiration Date**
AS26178 **08/14/2016**

DOB: 01/02/1962

This certification is issued pursuant to Chapter 3701 of the Revised Code and 3701-34 of the Ohio Administrative Code

**Environmental Chemical
Corporation
Edison, New Jersey**

**Hazardous Materials Survey
Former Harshaw Chemical Company
1000 Harvard Avenue
Cleveland, Ohio**

October 2014





1915 North 12th Street
Toledo, OH 43604-5305
T 419-324-2222
F 419-241-1808
www.ttlassoc.com

October 14, 2014

TTL Project No. 11762.01

██████████
Environmental Chemical Corporation
110 Fieldcrest Avenue Suite 31
Edison, New Jersey 08837

**Hazardous Materials Survey Report
Former Harshaw Chemical Company
1000 Harvard Avenue
Cleveland, Ohio**

Dear ██████████:

The report for the Hazardous Materials Survey conducted for Environmental Chemical Corporation (ECC) for the above-referenced site is enclosed. TTL understands the purpose of this project was to provide an asbestos, lead based paint (LBP) and hazardous materials survey at the above referenced site for demolition activities. This project was authorized by the TTL Proposal No. 11762.01 dated June 9, 2014.

TTL appreciates the continued opportunity to provide ECC with our consulting and testing services. Should you have any questions or require additional information, please contact ██████████.

Sincerely,

TTL Associates, Inc.

████████████████████

████████████████████

██████████

Industrial Hygienist

██████████

Manager, Asbestos Services

V:\Toledo\Misc_A_M\Environmental Chemical Corporation\HazMat Survey\11762.01 Harshaw Chemical\Report\Hazardous Material Survey Report.docx

**HAZARDOUS MATERIALS SURVEY REPORT
FORMER HARSHAW CHEMICAL COMPANY
1000 HARVARD AVENUE
CLEVELAND, OHIO**

FOR

**ENVIRONMENTAL CHEMICAL CORPORATION
110 FIELDCREST AVENUE SUITE 31
EDISON, NEW JERSEY 08837**

SUBMITTED

**OCTOBER 14, 2014
TTL PROJECT NO. 11762.01**

**TTL ASSOCIATES, INC.
1915 NORTH 12TH STREET
TOLEDO, OHIO 43604
(419) 324-2222
(419) 321-6252 FAX**



TABLE OF CONTENTS

<u>Section No.</u>	<u>Page No.</u>
1.0 EXECUTIVE SUMMARY	1
1.1 Asbestos Survey	1
1.2 Lead-Based Paint Survey	1
1.3 Hazardous Materials Survey	1
2.0 INTRODUCTION	2
2.1 Project Purpose and Objectives	2
2.2 Personnel	2
3.0 ASBESTOS SURVEY	3
3.1 Homogenous Areas	3
3.2 Sampling and Analysis Methods	3
3.3 Asbestos Analytical Results	3
4.0 LEAD-BASED PAINT SURVEY	5
4.1 Survey	5
4.2 Survey Results	5
5.0 HAZARDOUS MATERIALS SURVEY	7
6.0 CONCLUSIONS/RECOMMENDATIONS	8
6.1 Asbestos Survey	8
6.2 Lead-Based Paint Survey	9
6.3 Hazardous Materials Survey	9
6.4 Limitations	9

Appendices

Appendix A:	TTL Certifications
Appendix B:	Asbestos Survey Summary Table
Appendix C:	Asbestos Sampling Locations Map
Appendix D:	Asbestos Analytical Report
Appendix E:	X-Ray Fluorescence Analyzer Data Table
Appendix F:	Lead and Hazardous Materials Survey Maps
Appendix G:	Hazardous Materials Survey Summary Table

1.0 EXECUTIVE SUMMARY

TTL Associates, Inc. (TTL) conducted an asbestos, Lead-Based Paint (LBP) and hazardous materials survey at the former Harshaw Chemical Company located at 1000 Harvard Avenue in Cleveland, Ohio. The purpose of the survey was to identify asbestos-containing materials (ACM) and LBP for demolition activities.

██████████ and ██████████ of TTL conducted the survey on September 24, 2014.

TTL's scope of work included the following:

- Surveying the facility for suspect ACM.
- Collection of suspect ACM bulk samples for analysis by Polarized Light Microscopy (PLM) to determine asbestos content.
- LBP inspection of selected areas by X-Ray Fluorescence (XRF) Analyzer, Serial Number 25587.

1.1 Asbestos Survey

TTL identified twenty (20) suspect ACM and collected and analyzed forty-four (44) bulk samples. The number of samples collected from each suspect ACM was determined by the quantity of material present. Laboratory analysis identified seven (7) materials as ACM.

1.2 Lead-Based Paint Survey

TTL identified lead based paint in the building using an XRF analyzer. There were thirty-four (34) surfaces identified to contain LBP above one (1) milligram per square centimeter (mg/cm²).

1.3 Hazardous Materials Survey

A survey of hazardous materials was also conducted by TTL during the NESHAP asbestos survey. The purpose of the limited hazardous materials survey was to identify building components that may contain suspect hazardous materials. TTL's scope of work did not include the collection and/or analysis of suspect hazardous materials. The observed site building components that were quantified during the hazardous materials survey included:

- Fluorescent Bulb Light Fixtures – suspected of containing polychlorinated biphenyl (PCB) ballasts and/or fluorescent light bulbs containing mercury vapor
- Refrigeration Units – suspected of containing chlorofluorocarbon refrigerants
- Mercury Vapor Light Bulbs
- Large Industrial Fuses – suspected of containing silver and other metals

2.0 INTRODUCTION

TTL Associates, Inc. (TTL) conducted an asbestos, lead based paint (LBP) and hazardous materials of the former Harshaw Chemical Corporation located at 1000 Harvard Avenue in Cleveland, Ohio.

2.1 Project Purpose and Objectives

TTL conducted the survey in accessible areas of the site building to determine the presence of Asbestos-Containing Material (ACM), LBP and hazardous materials which may require removal prior to demolition and renovation activities.

2.2 Personnel

██████████ and ██████████ of TTL conducted the survey. ██████████ is a certified State of Ohio Department of Health Asbestos Hazard Evaluation Specialist. ██████████ has successfully completed the Manufacturer's Training Course for the NITON Spectrum Analyzer and the Lead Inspector and Risk Assessor Training in accordance with the requirements of 40 CFR 745.225, (d) 1; HUD Guidelines for Lead Inspectors; LEAD POISONING PREVENTION CODE 845.28. Copies of their certifications are included in Appendix A.

3.0 ASBESTOS SURVEY

This section documents the results of the asbestos survey.

3.1 Homogenous Areas

Each accessible area was surveyed for suspect ACM and included the identification of suspect materials and the definition of homogeneous sampling areas (HSA), assessment of the condition of each material, estimation of the approximate quantity of the suspect ACM, and collection and analysis of representative bulk samples from each identified HSA. An HSA is defined as a material that exhibits similar physical characteristics (e.g., texture, surface color, and appearance) and was applied or installed during the same construction period (if known) as determined by TTL's inspection team utilizing professional judgment, experience, and historical building information.

3.2 Sampling and Analysis Methods

TTL provided a State of Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist to conduct the inspection of the site building's interior components. [REDACTED] of TTL conducted the inspection. Refer to Appendix A for his certification.

Suspect ACM samples were collected using a coring device or other means, as appropriate, to collect a cross section of the suspect material. The samples were placed into clean, unused sealable bags and marked with a unique sample identification number. The samples of suspect ACM were transported to TTL and analyzed by Polarized Light Microscopy (PLM) using U.S. EPA Method 600/R-93/116. The EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials" requires that all multiple, distinct layers must be analyzed individually. Sample analysis results are provided for each distinct layer of each sample submitted to the laboratory.

TTL's laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards and Technology. The laboratory accreditation number is included in the analytical report.

3.3 Asbestos Analytical Results

TTL identified twenty (20) suspect ACM, collected and analyzed forty-four (44) samples and fifty-nine (59) sample layers of suspect ACM. Seven (7) suspect materials were identified as ACM.

Table 1.0 below summarizes of the identified and assumed ACM including material description, material location and estimated quantities. Refer to Appendix B for a detailed list of all identified suspect materials, quantities and presence of asbestos. Asbestos sampling location maps are provided in Appendix C. A copy of the asbestos laboratory analytical report is presented in Appendix D.

Table 1.0
Identified and Assumed Asbestos-Containing Materials

HSA No.	Material Description	Functional Area	Quantity
08	9" x 9" Grey Floor Tile	Room 2-1	289 s.f.
13	9" x 9" Grey Floor Tile and Associated Black Mastic	Room 2-4	1,200 s.f.
15	White TSI Debris	High Bay 3 rd Floor in Wooden Crates	64 c.f.
18	White Pipe Insulation	Exterior	20 l.f.
21	Mud Pipe Fitting Insulation	Exterior	11 Fittings
23	Transite Panels	By Elevators	100 s.f.
26	Grey Transite Panels	Exterior	60 s.f.

l.f.-linear feet
s.f.-square feet

4.0 LEAD-BASED PAINT SURVEY

This section documents the LBP survey results.

4.1 Survey

TTL provided a Lead Risk Assessor certified, in accordance with U.S. EPA and Housing and Urban Development's (HUD) Title X regulation, to conduct the inspection of the site buildings' interior components. [REDACTED] of TTL conducted the LBP inspection.

[REDACTED] used a Niton X-Ray Fluorescence (XRF) Analyzer, Serial Number 25587, to conduct the inspection. A copy of the Niton XRF Analyzer data is included in Appendix E and site maps are contained in Appendix F. The Analyzer data table includes sample locations, condition of paint, and sample results. LBP is defined by U.S. EPA and HUD as containing more than 1.0 milligrams of lead per square centimeter (mg/cm^2) of area or 0.5% by weight. OSHA does not define lead based paint based on content. Any detectable lead in paint makes it a lead paint for the purposes of complying with OSHA regulations to determine worker exposure.

The bolded data contained in Appendix E identifies paint that contains lead as defined by US EPA and HUD.

4.2 Survey Results

During the lead survey, TTL identified areas of painted surfaces of different color, substrate and component.

Table 2.0 summarizes the results for the lead hazards:

Table 2.0
Lead-Based Paint Surfaces
Only Above 1 mg/m^3

Reading No.	Component	Substrate	Side	Condition	Floor	Room	Result mg/cm^2
24	WALL	BRICK	D	PEELING	FIRST	1	1.1
34	WINDOW	WOOD	C	POOR	FIRST	1	12.3
35	WINDOW	WOOD	A	POOR	FIRST	1	10.2
36	WINDOW	METAL	A	POOR	FIRST	1	1
38	COLUMN	METAL	A	POOR	FIRST	1	3.9
39	FLOOR	BRICK	A	POOR	FIRST	1	1
45	WALL	BRICK	B	POOR	FIRST	1	2.3
49	DOOR	METAL	A	POOR	FIRST	1	14
52	DOOR	WOOD	D	POOR	STAIRWELL	STAIRWELL	1.2
53	DOOR	METAL	B	POOR	STAIRWELL	STAIRWELL	9.3
66	FLOOR	CONCRETE	A	POOR	FIRST	3	1.4

Reading No.	Component	Substrate	Side	Condition	Floor	Room	Result mg/cm ²
69	DOOR FRAME	WOOD	A	POOR	FIRST	3	4.8
76	WALL	BRICK	B	POOR	FIRST	4	4.9
77	WALL	BRICK	C	POOR	FIRST	4	3.2
79	DOOR FRAME	WOOD	B	POOR	FIRST	4	2.1
81	DOOR	WOOD	A	POOR	FIRST	4	2.5
84	DOOR	WOOD	A	FAIR	FIRST	4	1.5
85	DOOR	WOOD	C	FAIR	FIRST	5	8.2
98	COLUMN	WOOD	C	POOR	FIRST	6	6
99	WINDOW FRAME	METAL	D	POOR	FIRST	6	1
113	WALL	CONCRETE	D	POOR	FIRST	7	2.4
116	DOOR	WOOD	C	POOR	FIRST	7	2.4
117	HAND RAIL	METAL	A	POOR	FIRST	7	2.8
126	WALL	CONCRETE	C	POOR	FIRST	8	2.5
140	DOOR	WOOD	B	POOR	FIRST	10	1.2
154	DOOR	WOOD	A	FAIR	FIRST	12	1.1
155	DOOR	WOOD	A	FAIR	FIRST	12	1.2
156	WALL	CONCRETE	A	FAIR	FIRST	12	1.5
162	DOOR	WOOD	A	POOR	FIRST	13	1.6
163	DOOR	METAL	A	POOR	FIRST	13	2.4
171	DOOR	WOOD	D	POOR	MEZZANINE	14	2.3
172	DOOR	WOOD	B	POOR	MEZZANINE	15	2.4
175	DOOR	WOOD	D	POOR	MEZZANINE	15	1.9
186	DOOR	WOOD	D	POOR	FIRST	18	2.8
188	WALL	CONCRETE	C	POOR	FIRST	18	6.5
193	COLUMN	METAL	B	POOR	FIRST	19	4.5
194	COLUMN	METAL	B	POOR	FIRST	19	8.6
199	COLUMN	METAL	A	POOR	SECOND	20	3.8
202	DOOR	METAL	B	POOR	THIRD	21	4.2
203	COLUMN	METAL	B	POOR	THIRD	21	6.2
209	COLUMN	METAL	A	POOR	SECOND	22	2.8
223	WALL	CONCRETE	B	POOR	SECOND	24	4.6
226	WALL	CONCRETE	D	POOR	SECOND	25	1
235	WALL	CONCRETE	D	POOR	SECOND	26	2.4
236	DOOR ELEVATOR	METAL	B	POOR	SECOND	26	1.4
237	SLOP SINK	METAL	D	POOR	SECOND	26	1
238	SLOP SINK	CONCRETE	D	POOR	SECOND	26	1
258	WALL	BRICK	A	POOR	SECOND	27	1.1

The Occupational Safety and Health Administration's (OSHA) Lead in Construction Standard 29 CFR 1926.62 states that any concentration of lead poses a potential for worker exposure when working with a lead-containing material.

5.0 HAZARDOUS MATERIALS SURVEY

TTL visually identified the following hazardous materials at the Site:

- Approximately 4 fluorescent bulbs, plus an unknown amount in a pile in Room 24
- Approximately 113 fluorescent light fixture ballasts, plus an unknown amount in a pile in Room 24
- Approximately 2 halogen flood light bulbs
- Approximately 4 large bus fuses
- Piles and areas of radioactive waste through-out building
- Approximately 18 mercury vapor light bulbs

Refer to Appendix G for the Hazardous Materials Summary Table.

6.0 CONCLUSIONS/RECOMMENDATIONS

This section summarizes the results of the asbestos and LBP survey and provides conclusions and recommendations.

6.1 Asbestos Survey

The U.S. EPA defines regulated asbestos-containing material (RACM) as: (a) Friable asbestos material, (b) Category I Non-Friable ACM that has become friable, (c) Category I Non-Friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II Non-Friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

The National Emissions Standard for Hazardous Air Pollutants (NESHAP) asbestos regulations require the removal of all RACM from a facility being demolished or renovated prior to beginning any activity that might damage or disturb the material. The U.S. EPA requires written notification if the combined amount of RACM to be removed is at least 260 linear feet, at least 160 square feet, or at least one cubic meter of facility components where length or area could not be measured. The Ohio Department of Health requires ten day notification if the amount of RACM to be removed exceeds 50 square or linear feet.

The following Friable ACM was identified within the site building and requires removal prior to demolition activities:

- Approximately 64 cubic feet (c.f.) of white TSI debris (HSA 11762.01-15)
- Approximately 20 linear feet (l.f.) of white pipe insulation (HSA 11762.01-18)
- Approximately 11 fittings of mud pipe fitting insulation (HSA 11762.01-21)

The following Category I Non-Friable ACM were identified within the site buildings requires removal prior to demolition activities:

- Approximately 289 square feet (s.f.) of 9" x 9" grey floor tile (HSA 11762.01-08)
- Approximately 1,200 s.f. of 9" x 9" brown floor tile and associated black mastic (HSA 11762.01-13)

The following Category II Non-Friable materials were identified to contain asbestos and require removal prior to demolition activities:

- Approximately 100 s.f. of transite panels (HSA 11762.01-23)
- Approximately 60 s.f. of grey transite panels (HSA 11762.01-26)

TTL recommends the removal of the RACM and the ACM that might become RACM based on the project-specific renovation techniques by a licensed asbestos abatement contractor. Based on the condition of the material, the identified ACM may be expected to be a RACM.

A written Notification of Intent to Renovate/Demolish form is required to be submitted to the U.S. EPA or their designated authority, and ODH at least 10 working days prior to beginning any asbestos abatement and/or demolition project.

6.2 Lead-Based Paint Survey

TTL identified LBP that could be impacted by the demolition activities. Painted surfaces were identified as lead-based paint by XRF through-out the site building. LBP throughout building was in intact or not intact condition. TTL recommends any demolition work needs to be performed in accordance with the requirements of OSHA's Lead in Construction Standard 29 CFR 1926.62.

6.3 Hazardous Materials Survey

In accordance with EPA 40 CFR Part 261 (Standards applicable to Generators of Hazardous Waste) and Part 262 (Identification and Listing of Hazardous Waste) observed items that are to be disturbed during renovation or demolition activities will need to be identified, handled and disposed of properly in accordance with Parts 261 and 262.

All hazardous materials are to be handled and disposed of in accordance with federal, state, and local regulations.

6.4 Limitations

The scope of work for the asbestos survey did not include roofing materials. The on-site structural engineer deemed the roof unsafe to access; thus, it was not included in this hazardous material survey. TTL has made reasonable efforts to identify and quantify suspect ACM based upon the standard of care in the environmental industry existing at the time of the survey. This survey only summarizes the potential presence, estimated quantities of visually observed ACM, potential LBP, and visually observed hazardous materials.

Additional material disturbed during demolition activities should be evaluated on a case-by-case basis, especially materials that were previously hidden, obscured or inaccessible, to determine if the material is included in this survey. If a given material is not described in this survey or cannot be identified as a non-suspect material, the material should be assumed to contain asbestos, demolition activities should be halted until sampling, and analysis can be accomplished. Parties conducting demolition activities should follow all applicable federal, state, and local regulations in handling identified and suspect ACM.

The information contained in the report was based upon specific parameters and regulations in force at the time of the survey. The information herein is only for the specific use of ECC and TTL, unless written authorization is obtained from TTL. TTL accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein, nor does this report represent an instrument of regulatory compliance or an asbestos abatement or lead based paint specification.

APPENDIX A

TTL CERTIFICATIONS

State of Ohio
Department of Health
Division of Quality Assurance - Asbestos Program

Asbestos Hazard Evaluation Specialist



5851 Spring Hollow Drive
Toledo OH 43615

DOB: 08/29/1982

Certification Number Expiration Date
ES35641 **07/23/2015**

This certification is issued pursuant to Chapter 3710 of the
Revised Code and 3701-34 of the Ohio Administrative Code

Certification Card is
not valid if altered



Certificate of Achievement



Performance Environmental Services, Inc.

*has successfully completed the Manufacturer's Training Course
for the **NITON Spectrum Analyzer** and is now certified
in radiation safety and monitoring, measurement technology,
and machine maintenance of the **NITON XRF Spectrum Analyzer**.*

(CIH's – The ABIH Awards 1 CM point, approval # 05-396)

A5051738838

Certificate Number

05/19/05 Detroit, MI

Date & Site of Course



Training Coordinator



Director of Training



June 9, 2005

[REDACTED]
1150 Corporate Office Dr
Suite 200
Milford, MI 48381

Dear [REDACTED]

Congratulations on successfully completing the Manufacturer's Training Course for NITON's portable Spectrum Analyzer instruments. We admire your effort in completing this course and are enclosing your Certificate. This certifies you in radiation safety and monitoring, measurement technology, and machine maintenance of the NITON XRF Spectrum Analyzer.

Now you can join the professionals who are turning to on-site technologies for the measurement of metals in lead-based paint, soil, air, and coatings as well as alloy identification. These technologies offer huge savings in measurement time and cost over conventional methods. At the same time, they have become widely accepted for regulatory accreditation and support.

- EPA lead program accepts XRF for lead paint testing, and verifies performance via "Performance Characteristics Sheets".
- The EPA lead program had implemented a full accreditation program for on-site lead analysis in soil, dust and paint.
- EPA/HUD Method 6200 is published for analysis of contaminants in soils and sediment using field portable X-Ray Fluorescence (XRF).
- NIOSH Method 7702 is published for on-site analysis of filters used for the measurement of airborne lead levels for worker exposure, using portable XRF.

NITON is the leading manufacturer of portable XRF analyzers for contaminant analysis. Instruments can be configured for nearly any application, including lead paint analysis, RCRA metal analysis for soils, coatings and contaminants in air. And readings take as little as a few seconds. For most applications, results meet laboratory-level accuracy standards. For "project oriented" companies, NITON even offers an attractive rental program. Every NITON XRF can be upgraded to keep pace with the changes in your business.

Please call us today to discuss your measurement needs. Our trained, technical staff will help you identify on-site testing methods to save you time and money. On-site analysis also greatly speeds the inspection and clearance process for remediation projects. We'll develop an instrument package that solves your problems. And we'll schedule an on-site demonstration at your convenience.

Please call us for further information, or visit our web site at www.niton.com. We are committed to solving your measurement needs.

Best regards,

[REDACTED]

[REDACTED]

Training Coordinator

Certificate Number: 147475 - 12029

ETC Training Services Group

38900 W. Huron River Drive
Romulus, MI 48174-1159
(734) 955-6600

PRESENTS



with certification for having successfully completed the 24 hour/3 day which meets the requirements for

Lead Inspector Initial Training Course

*in accordance with the requirements of 40 CFR 745.225, (d)1;
HUD Guidelines for Lead Inspectors; LEAD
POISONING PREVENTION CODE 845.28*

Course Dates: November 11 - 13, 2013

6 months - 3rd Party Exam Eligibility Testing Valid Through: May 11, 2014

(3 years) Training Valid Through: November 11, 2016



Trainer



ETC President

Certificate Number: 13-35-0002

ETC Training Services Group

38900 Huron River Drive
Romulus, Michigan 48174-1159
(734) 955-6600

PRESENTS

*with certification for having successfully completed the 16 hour/2 day course
which meets the requirements for*

Lead Risk Assessor Initial Training Course

*in accordance with the requirements of 40 CFR 745.225, (d)2;
HUD Guidelines for Lead Inspectors; LEAD
POISONING PREVENTION CODE 845.28*

Course Dates: November 14-15, 2013
6 months- 3rd Party Exam Eligibility-Testing Valid Through: May 14, 2014
(3 years) Training Valid Through: November 14, 2016

Trainer

ETC President

APPENDIX B
ASBESTOS SURVEY SUMMARY TABLE

Homogeneous Sampling Areas Table
Former Harshaw Chemical Corporation
1000 Harvard Avenue
Cleveland, Ohio

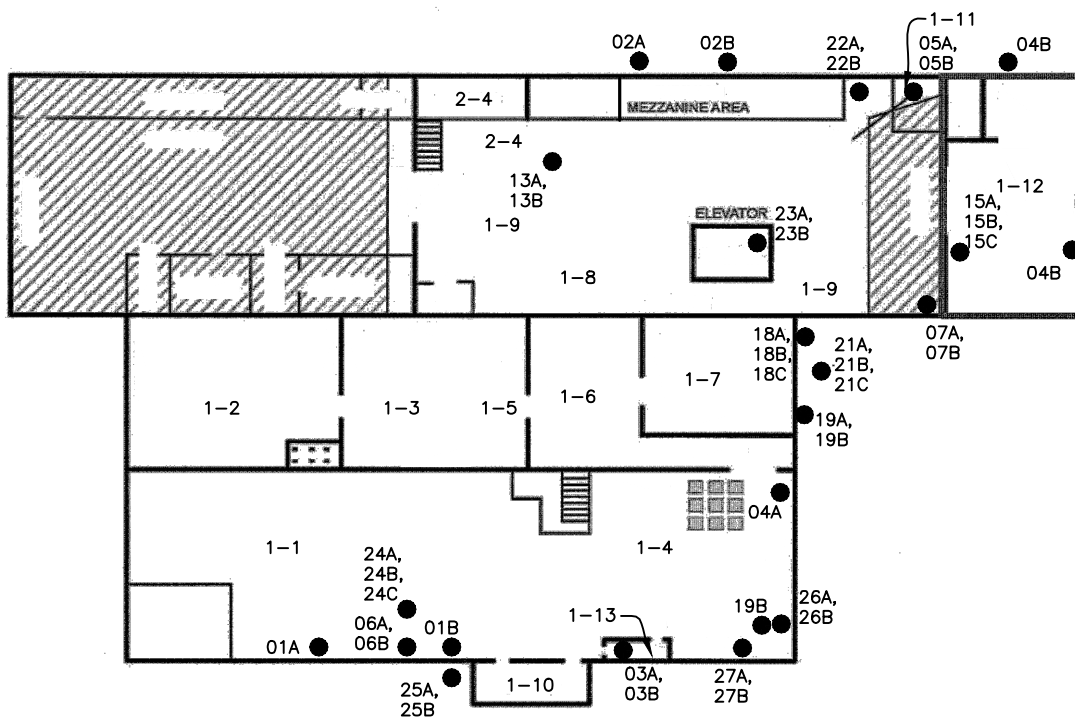
HSA #	Material Description	Friability	Functional Area	Quantity	Units	Sample Number	Sample Results
01	Concrete	NF-II	Room 1-1	1,500	s.f.	11762.01-01A, B	Negative
			Total	1,500	s.f.		
02	Light Grey Caulk	NF-II	Room 1-1 Exterior Walls	150	l.f.	11762.01-02A, B	Negative
			Total	150	l.f.		
03	White Pipe Insulation Debris	F	Room 1-13	400	s.f.	11762.01-03A, B	Negative
			Total	400	s.f.		
04	Brick Caulk	NF-II	Exterior of Building	NQ		11762.01-04A, B	Negative
			Total	NQ			
05	Drywall Ceiling Material	NF-II	Room 1-11	404	s.f.	11762.01-05A, B	Negative
			Total	404	s.f.		
06	Window Glazing	NF-II	Room 1-1	3,178	l.f.	11762.01-06A, B	Negative
			Total	3,178	l.f.		
07	White / Red Ash Debris Inside Pipe	F	Room 1-12	2	s.f.	11762.01-07A, B	Negative
			Total	2	s.f.		
08	9" x 9" Grey Floor Tile and Associated Black Mastic	NF-I	Room 2-1	289	s.f.	11762.01-08A, B	Positive - Tile Only
			Total	289	s.f.		
12	Black Sheet Flooring Material	NF-I	Room 2-3	1,715	s.f.	11762.01-12A, B	Negative
			Total	1,715	s.f.		
13	9" x 9" Brown Floor Tile and Associated Black Mastic	NF-I	Room 2-4	1,200	s.f.	11762.01-13A, B	Positive
			Total	1,200	s.f.		

Homogeneous Sampling Areas Table
Former Harshaw Chemical Corporation
1000 Harvard Avenue
Cleveland, Ohio

HSA #	Material Description	Friability	Functional Area	Quantity	Units	Sample Number	Sample Results
15	White TSI Debris	F	High Bay 3rd Floor in Wooden Crates	16	s.f.	11762.01-15A, B	Positive
			Total	16	s.f.		
18	White Pipe Insulation	F	Exterior	20	l.f.	11762.01-18A, B	Positive
			Total	20	l.f.		
19	Ceramic Insulation Debris	F	Exterior	2	s.f.	11762.01-19A, B	Negative
			Total	2	s.f.		
21	Mud Pipe Fitting Insulation	F	Exterior	11	fittings	11762.01-21A, B	Positive
			Total	11	fittings		
22	Cloth Wire Insulation	NF-II	Exterior	20	l.f.	11762.01-22A, B	Negative
			Total	20	l.f.		
23	Transite Panels	NF-II	By Elevators	100	s.f.	11762.01-23A, B	Positive
			Total	100	s.f.		
24	Paper Thermal Insulation	F	Room 1-1	4	l.f.	11762.01-24A, B	Negative
			Total	4	l.f.		
25	Tar Sealing Material	NF-II	Exterior	10	s.f.	11762.01-25A, B	Negative
			Total	10	s.f.		
26	Grey Transite Panels	NF-II	Exterior	60	s.f.	11762.01-26A, B	Positive
			Total	60	s.f.		
27	Cable Insulation	NF-II	Exterior	40	l.f.	11762.01-27A, B	Negative
			Total	40	l.f.		
	NQ = Not Quantified						

APPENDIX C

ASBESTOS SAMPLE LOCATIONS MAP



LEGEND

- 01A ● SAMPLE LOCATION
- 1-1 FIRST FLOOR ROOM 1
- 2-1 SECOND FLOOR ROOM 1

NOT TO SCALE

FIGURE 1.0 **ASBESTOS SAMPLE SURVEY** FORMER HARSHAW CHEMICAL COMPANY 1000 HARVARD AVENUE CLEVELAND, OHIO

PREPARED FOR
ENVIRONMENTAL CHEMICAL CORPORATION
EDISON, NEW JERSEY

DRAWN CLW/10-10-14

CHECKED

REVISED

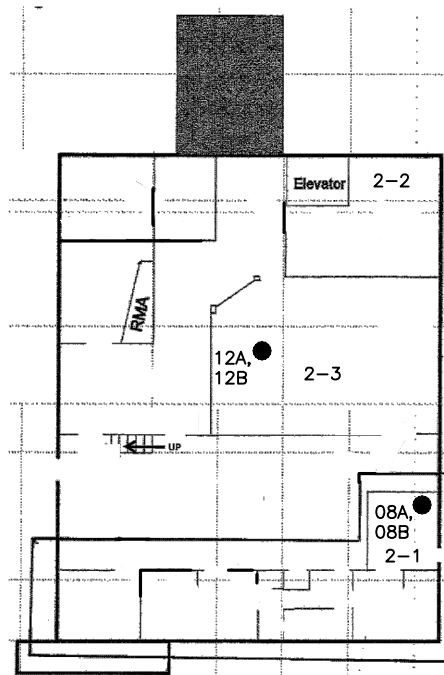
APPROVED

JOB NO. 11762.01

DRAWING NUMBER

1176201-03H





LEGEND

- 08A ● SAMPLE LOCATION
 1-1 FIRST FLOOR ROOM 1
 2-1 SECOND FLOOR ROOM 1

NOT TO SCALE

FIGURE 2.0 ASBESTOS SAMPLE SURVEY FORMER HARSHAW CHEMICAL COMPANY 1000 HARVARD AVENUE CLEVELAND, OHIO

PREPARED FOR
ENVIRONMENTAL CHEMICAL CORPORATION
EDISON, NEW JERSEY

DRAWN CLW/10-10-14

CHECKED

REVISED

APPROVED

JOB NO. 11762.01

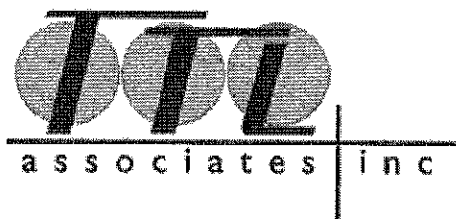
DRAWING NUMBER

1176201-04H



APPENDIX D

ASBESTOS ANALYTICAL REPORT



1915 North 12th Street
Toledo, OH 43604-5305
T 419-324-2222
F 419-241-1808
www.ttlassoc.com

Page 1 of 9

CLIENT: Environmental Chemical Corporation
110 Fieldcrest Avenue #13
EDISON, NEW JERSEY 08837

DATE: October 1, 2014

ATTN: [REDACTED]

Project No.: 11762.01

Lab Receiving No.: 14-09-204222

Date Received: September 25, 2014

Date Sampled: September 24, 2014

Project Location: Former Harshaw Chemical Company
1000 Harvard Avenue
Cleveland, Ohio

Sample Point(s): see analytical results

Analysis Performed: Asbestos Analysis by PLM

DISCLAIMER

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. TTL Associates, Inc., assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Reviewed by: [REDACTED] Date: 09/29/2014
[REDACTED] Lab Supervisor

Approved by: [REDACTED] Date: 10/01/2014
[REDACTED], Technical Manager

ANALYTICAL NARRATIVE

The note(s) below pertain to the sample(s) and analytical data reported herein:

Quantitative results are listed as approximate % asbestos. Results are based on calibrated visual estimation of materials. All results <1% asbestos (Trace) have been confirmed by the analysis of a duplicate slide. As per the method, all "negative" or BDL samples have been confirmed by triplicate analyses. Due to the nature of the samples the following measurements of uncertainty may apply:

% Asbestos	Uncertainty
1%	± 2%
5%	± 4%
10%	± 5%
>20%	± 10%

Due to the complexity of analyzing floor tile by PLM, the client may want to consider having "negative" floor tiles analyzed further by an alternative method such as TEM.

Samples are archived by TTL Associates for a period of thirty days. Samples may be retained for a longer period of time or returned to the client upon written request.

Laboratory Accreditation:

U.S. Department of Commerce, National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP), Lab #101594-0. Accredited to the 1982 Interim Method for the Determination of Asbestos, 40 CFR, Part 763, Subpart E, Appendix E

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested, and may not be reproduced, except in full, without the written approval of the laboratory.

Report Key:

BDL = Below Detection Level
 n/a = not applicable
 HSA = Homogeneous Sampling Area

Detection Level: 1% asbestos fibers greater than one micrometer in length.

POLARIZED LIGHT MICROSCOPY ANALYTICAL RESULTS

Page 3 of 9

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM017014, 2PLM017114, 2PLM017214
DATE ANALYZED:	September 29, 2014
ANALYST:	

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
221148	1176201-01A	01	Along windows	Grey Plaster	100% Binder	BDL
221149	1176201-01B	01	Along windows	Grey Plaster	100% Binder	BDL
221150	1176201-02A	02	External walls	Grey Caulk	100% Binder	BDL
221151	1176201-02B	02	External walls	Grey Caulk	100% Binder	BDL
221152	1176201-03A	03	Room 1-13	White Insulation	96% Binder, 2% Fiberglass, 2% Synthetic Fibers	BDL
221153	1176201-03B	03	Room 1-13	White Insulation	96% Binder, 2% Fiberglass, 2% Synthetic Fibers	BDL
221154	1176201-04A	04	Room 1-7	Brown/White Plaster/Paint	100% Binder	BDL
221155	1176201-04B	04	Exterior	Brown/White Plaster/Paint	100% Binder	BDL
221156	1176201-05A Layer A	05	Room 1-11	White Gypsum Board	99% Binder, 1% Cellulose	BDL

POLARIZED LIGHT MICROSCOPY ANALYTICAL RESULTS

Page 4 of 9

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM017014, 2PLM017114, 2PLM017214
DATE ANALYZED:	September 29, 2014
ANALYST:	[REDACTED]

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
221156	1176201-05A Layer B	05	same	Grey Backing	100% Cellulose	BDL
221157	1176201-05B Layer A	05	Room 1-11	White Gypsum Board	99% Binder, 1% Cellulose	BDL
221157	1176201-05B Layer B	05	same	Grey Backing	100% Cellulose	BDL
221158	1176201-06A	06	Room 1-1	Beige Glazing Compound	100% Binder	BDL
221159	1176201-06B	06	Room 1-1	Beige Glazing Compound	100% Binder	BDL
221160	1176201-07A	07	Room 1-12, pipe	Tan Material	100% Binder	BDL
221161	1176201-07B	07	Room 1-12, pipe	Tan Material	100% Binder	BDL
221162	1176201-08A Layer A	08	Room 2-1	Dark Brown Floor Tile	96% Binder	4% Chrysotile
221162	1176201-08A Layer B	08	same	Black Mastic	100% Binder	BDL
221163	1176201-08B Layer A	08	Room 2-1	Dark Brown Floor Tile	95% Binder	5% Chrysotile

**POLARIZED LIGHT MICROSCOPY
ANALYTICAL RESULTS**

Page 5 of 9

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM017014, 2PLM017114, 2PLM017214
DATE ANALYZED:	September 29, 2014
ANALYST:	[REDACTED]

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
221163	1176201-08B Layer B	08	same	Black Mastic	100% Binder	BDL
221164	1176201-12A Layer A	12	Room 2-3	Black Coating	100% Binder	BDL
221164	1176201-12A Layer B	12	same	Black Floor Tile	100% Binder	BDL
221165	1176201-12B Layer A	12	Room 2-3	Black Coating	100% Binder	BDL
221165	1176201-12B Layer B	12	same	Black Floor Tile	100% Binder	BDL
221166	1176201-13A Layer A	13	Room 2-4	Dark Brown Floor Tile	90% Binder	10% Chrysotile
221166	1176201-13A Layer B	13	same	Black Mastic	97% Binder	3% Chrysotile
221167	1176201-13B Layer A	13	Room 2-4	Dark Brown Floor Tile	90% Binder	10% Chrysotile
221167	1176201-13B Layer B	13	same	Black Mastic	97% Binder	3% Chrysotile
221168	1176201-15A	15	Third floor, wooden crates	Beige Insulation	84% Binder	15% Amosite, 1% Chrysotile

POLARIZED LIGHT MICROSCOPY ANALYTICAL RESULTS

Page 6 of 9

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM017014, 2PLM017114, 2PLM017214
DATE ANALYZED:	September 29, 2014
ANALYST:	[REDACTED]

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
221169	1176201-15B	15	Third floor, wooden crates	Beige Insulation	84% Binder	14% Amosite, 2% Chrysotile
221170	1176201-15C	15	Third floor, wooden crates	Beige Insulation	84% Binder	14% Amosite, 2% Chrysotile
221171	1176201-18A	18	Exterior	Light Grey Fabric Sheet	75% Binder, 10% Fiberglass	15% Chrysotile
221172	1176201-18B	18	Exterior	Light Grey Fabric Sheet	75% Binder, 10% Fiberglass	15% Chrysotile
221173	1176201-18C	18	Exterior	Light Grey Fabric Sheet	75% Binder, 10% Fiberglass	15% Chrysotile
221174	1176201-19A	19	Exterior	Grey Material	92% Binder, 8% Fiberglass	BDL
221175	1176201-19B	19	Exterior	Grey Material	92% Binder, 8% Fiberglass	BDL
221176	1176201-21A	21	Exterior	White Insulation	96% Binder, 4% Synthetic Fibers	BDL
221177	1176201-21B	21	Exterior	White Insulation	96% Binder, 1% Fiberglass, 3% Synthetic Fibers	BDL

POLARIZED LIGHT MICROSCOPY ANALYTICAL RESULTS

Page 7 of 9

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM017014, 2PLM017114, 2PLM017214
DATE ANALYZED:	September 29, 2014
ANALYST:	XXXXXXXXXX

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
221178	1176201-21C Layer A	21	Exterior	White Insulation	96% Binder, 4% Synthetic Fibers	BDL
221178	1176201-21C Layer B	21	same	Light Grey Wrap	85% Binder	15% Chrysotile
221179	1176201-22A Layer A	22	Exterior	Black Coating	100% Binder	BDL
221179	1176201-22A Layer B	22	same	Off White Fabric	100% Cellulose	BDL
221180	1176201-22B Layer A	22	Exterior	Black Coating	100% Binder	BDL
221180	1176201-22B Layer B	22	same	Grey Fabric	100% Cellulose	BDL
221181	1176201-23A	23	By the elevator	Grey Transite	82% Binder	18% Chrysotile
221182	1176201-23B	23	By the elevator	Grey Transite	82% Binder	18% Chrysotile
221183	1176201-24A	24	Room 1-1	Tan Paper/Glue	35% Binder, 65% Cellulose	BDL
221184	1176201-24B	24	Room 1-1	Tan Paper/Glue	35% Binder, 65% Cellulose	BDL

**POLARIZED LIGHT MICROSCOPY
ANALYTICAL RESULTS**

Page 8 of 9

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM017014, 2PLM017114, 2PLM017214
DATE ANALYZED:	September 29, 2014
ANALYST:	

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
221185	1176201-24C	24	Room 1-1	Tan Paper/Glue	55% Binder, 45% Cellulose	BDL
221186	1176201-25A	25	Exterior	Black Tar	95% Binder, 5% Cellulose	BDL
221187	1176201-25B	25	Exterior	Black Tar	95% Binder, 5% Cellulose	BDL
221188	1176201-26A	26	Exterior	Grey Transite	85% Binder	15% Chrysotile
221189	1176201-26B	26	Exterior	Grey Transite	85% Binder	15% Chrysotile
221190	1176201-27A Layer A	27	Exterior	Grey Fabric	40% Binder, 60% Cellulose	BDL
221190	1176201-27A Layer B	27	same	Black Fabric	32% Binder, 68% Cellulose	BDL
221190	1176201-27A Layer C	27	same	Black Tar Fabric	85% Binder, 15% Cellulose	BDL
221191	1176201-27B Layer A	27	Exterior	Grey Fabric	40% Binder, 60% Cellulose	BDL
221191	1176201-27B Layer B	27	same	Black Fabric	32% Binder, 68% Cellulose	BDL

**POLARIZED LIGHT MICROSCOPY
ANALYTICAL RESULTS**

Page 9 of 9

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM017014, 2PLM017114, 2PLM017214
DATE ANALYZED:	September 29, 2014
ANALYST:	[REDACTED]

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
221191	1176201-27B Layer C	27	same	Black Tar Fabric	85% Binder, 15% Cellulose	BDL



1915 North 12th St., Toledo, OH 43604-5305; Voice 419-324-2222, Fax 419-241-1808
Ship To Address: ATTN: RECEIVING LAB, 1915 North 12th St., Toledo, OH 43604-5305
Sent From: ☒ Toledo ☐ Plymouth ☐ Detroit ☐ Other

Chain of Custody Record

26196

Page 1 of 5

Project No.: 11762-01		Client: ECC/Harshaw		Parameters: RR#4222							
P.O. No.:		Project/Location: Cleveland OH									
Project Mgr.:		Sampler's Name:									
Phone No.:		Sampler's Signature:									
Item No.	Sample I.D.	Date Sampled	Time Sampled	Type	Matrix	Sample Location	Total No. of Containers	PLM-Abestos	Preserved Yes/No	LAB USE ONLY	Lab #
1	1176201-C1A	9/24/10		Bulk	Solid	Along windows	1	X			221148
2	E1B					"	1	X			221149
3	C2A					External walls	1	X			221150
4	C1B					" "	1	X			221151
5	C3A					Rm 1-13	1	X			221152
6	C3B					" "	1	X			221153
7	C4A					Rm 1-7	1	X			221154
8	C1D					Exterior	1	X			221155
9	C5A					Rm 1-11	1	X			221156
10	↓ C5B	↓		↓	↓	" "	1	X			221157
Item No.	Relinquished By:	Date / Time	Received By:	Date / Time	LAB USE ONLY						
1-10		9/25/10 1200		9/25/10 300	Were samples delivered <input checked="" type="checkbox"/> in person <input type="checkbox"/> by courier Were samples preserved <input type="checkbox"/> in field <input type="checkbox"/> in lab <input checked="" type="checkbox"/> N/A Temp of samples <input checked="" type="checkbox"/> NA °C Did samples arrive intact and sealed? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A Were proper containers used? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Was container labeled properly for contents? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Were samples packaged properly for type of material? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Was shipping label completed properly per regulations? (49 CFR 170, etc.) <input type="checkbox"/> yes <input type="checkbox"/> no Samples were <input checked="" type="checkbox"/> accepted <input type="checkbox"/> rejected Comments: TAT STV						
Item No.	Relinquished By:	Date / Time	Received By:	Date / Time							
Item No.	Relinquished By:	Date / Time	Received By:	Date / Time							
Item No.	Relinquished By:	Date / Time	Received By:	Date / Time							

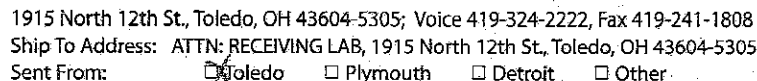


1915 North 12th St., Toledo, OH 43604-5305; Voice 419-324-2222, Fax 419-241-1808
Ship To Address: ATTN: RECEIVING LAB, 1915 North 12th St., Toledo, OH 43604-5305
Sent From: ☒ Toledo ☐ Plymouth ☐ Detroit ☐ Other

Chain of Custody Record

ME 26197 Page 2 of 5

Project No.: 1176201		Client: ECL / Horseshoe		Parameters: RK#4222								
P.O. No.:		Project/Location: Cleveland OH		MG								
Project Mgr.:		Sampler's Name:		Preserved Yes/No								
Phone No.:		Sampler's Signature:		LAB USE ONLY								
Item No.	Sample I.D.	Date Sampled	Time Sampled	Type	Matrix	Sample Location	Total No. of Containers					Lab #
1	1176201-06A	9/24/14		DRK	SOLID DRK	Rm 1-1	1	X				221158
2	06B					" "	1	X				221159
3	07A					Rm 1-12 (pipe)	1	X				221160
4	07B					" "	1	X				221161
5	08A					Rm 2-1	1	X				221162
6	08B					" "	1	X				221163
7	09A					Rm 2-3	1	X				221164
8	09B					" "	1	X				221165
9	013A					Rm 2-4	1	X				221166
10	013B					" "	1	X				221167
Item No.	Relinquished By:	Date / Time	Received By:		Date / Time	LAB USE ONLY						
10		9/25/14 1200			9/25/14 1200	Were samples delivered <input checked="" type="checkbox"/> in person <input type="checkbox"/> by courier Were samples preserved <input type="checkbox"/> in field <input type="checkbox"/> in lab <input checked="" type="checkbox"/> N/A Temp of samples <input checked="" type="checkbox"/> N/A Did samples arrive intact and sealed? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A Were proper containers used? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Was container labeled properly for contents? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Were samples packaged properly for type of material? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Was shipping label completed properly per regulations? (49 CFR 170, etc.) <input type="checkbox"/> yes <input type="checkbox"/> no Samples were <input checked="" type="checkbox"/> accepted <input type="checkbox"/> rejected Comments: TAT STV						
Item No.	Relinquished By:	Date / Time	Received By:		Date / Time							
Item No.	Relinquished By:	Date / Time	Received By:		Date / Time							
Item No.	Relinquished By:	Date / Time	Received By:		Date / Time							

Page 3 of 5

Distribution: Original plus one accompanies shipment (white and yellow); copy to coordinator field files (pink)



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Ship To Address: ATTN: RECEIVING LAB, 1915 North 12th St., Toledo, OH 43604-5305
Sent From: ☒ Toledo ☐ Plymouth ☐ Detroit ☐ Other

Chain of Custody Record

26173 Page 4 of 5

Project No.: 11762.01		Client: EEC / Harshlow		Parameters: RRA 4222					
P.O. No.:		Project/Location:							
Project Mgr.:		Sampler's Name:		Total No. of Containers: 10					
Phone No.:		Sampler's Signature:		Dim. Asbestos					
Item No.	Sample I.D.	Date Sampled	Time Sampled	Type	Matrix	Sample Location	Preserved Yes/No	LAB USE ONLY	Lab #
1	11762-01-021C	9/24/14		Brick	SOLID	Exterior			221178
2	021A					Exterior			221179
3	021B					"			221180
4	023A					By the Elevator			221181
5	023B					" "			221182
6	024A					Rm 1-1			221183
7	024B					" "			221184
8	024C					" "			221185
9	025A					Exterior			221186
10	025B					"			221187
Item No.	Relinquished By:	Date / Time	Received By:	Date / Time	LAB USE ONLY				
3040		9/25/14 1200		9/25/14 1200	Were samples delivered <input checked="" type="checkbox"/> in person <input type="checkbox"/> by courier Were samples preserved <input type="checkbox"/> in field <input type="checkbox"/> in lab <input checked="" type="checkbox"/> N/A Temp of samples <input checked="" type="checkbox"/> NA °C Did samples arrive intact and sealed? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A Were proper containers used? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Was container labeled properly for contents? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Were samples packaged properly for type of material? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Was shipping label completed properly per regulations? (49 CFR 170, etc.) <input type="checkbox"/> yes <input type="checkbox"/> no Samples were <input checked="" type="checkbox"/> accepted <input type="checkbox"/> rejected Comments: TAT STL				
Item No.	Relinquished By:	Date / Time	Received By:	Date / Time					
Item No.	Relinquished By:	Date / Time	Received By:	Date / Time					
Item No.	Relinquished By:	Date / Time	Received By:	Date / Time					



1915 North 12th St., Toledo, OH 43604-5305; Voice 419-324-2222, Fax 419-241-1808
Ship To Address: ATTN: RECEIVING LAB, 1915 North 12th St., Toledo, OH 43604-5305
Sent From: ☒ Toledo ☐ Plymouth ☐ Detroit ☐ Other

Chain of Custody Record

112 261.72 Page 5 of 5

Project No.: 11762-01		Client: ECC / Harshaw		Parameters RR# 4222											
P.O. No.:		Project/Location: Cleveland OH		Total No. of Containers 11											
Project Mgr:		Sampler's Name:		Preserved Yes/No LAB USE ONLY NG											
Phone No.:		Sampler's Signature:		9/26/14											
Item No.	Sample I.D.	Date Sampled	Time Sampled	Type	Matrix	Sample Location									Lab #
1	11762-021A	9/24/14		Quik	Soil	Extender									221188
2	026B					"									221189
3	027A					Extender									221190
4	027B					"									221191
5															
6															
7															
8															
9															
10															
Item No.	Relinquished By:	Date / Time	Received By:	Date / Time	LAB USE ONLY										
1046		9/25/14 1200		9/25/14 1200	Were samples delivered: <input checked="" type="checkbox"/> in person <input type="checkbox"/> by courier										
Item No.		Date / Time	Received By:	Date / Time	Were samples preserved: <input type="checkbox"/> in field <input type="checkbox"/> in lab <input type="checkbox"/> N/A										
Item No.		Date / Time	Received By:	Date / Time	Temp of samples: <input type="checkbox"/> N/A <input type="checkbox"/> °C										
Item No.		Date / Time	Received By:	Date / Time	Did samples arrive intact and sealed? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> N/A										
Item No.		Date / Time	Received By:	Date / Time	Were proper containers used? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no										
Item No.		Date / Time	Received By:	Date / Time	Was container labeled properly for contents? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no										
Item No.		Date / Time	Received By:	Date / Time	Were samples packaged properly for type of material? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no										
Item No.		Date / Time	Received By:	Date / Time	Was shipping label completed properly per regulations? (49 CFR 170, etc.) <input type="checkbox"/> yes <input type="checkbox"/> no										
Item No.		Date / Time	Received By:	Date / Time	Samples were: <input checked="" type="checkbox"/> accepted <input type="checkbox"/> rejected										
Item No.		Date / Time	Received By:	Date / Time	Comments: TAT STD										

APPENDIX E

X-RAY FLUORESCENCE INSTRUMENT DATA TABLE

Limited Lead Based Paint Inspection
Former Harshaw Chemical Corporation
1000 Harvard Avenue

Reading No.	Component	Color	Substrate	Side	Cleveland, Ohio Condition	Floor	Room	Time	Units	PbC	PbC Error
17								9/24/2014 9:12	cps	7.4	0
18								9/24/2014 9:16	cps	7.14	0
19	Calibrate							9/24/2014 9:17	mg / cm ^2	0.8	0.2
20	Calibrate							9/24/2014 9:17	mg / cm ^2	0.8	0.2
21	Calibrate							9/24/2014 9:18	mg / cm ^2	1	0.1
22	WALL	WHITE	BRICK	D	NOT INTACT	FIRST	1	9/24/2014 9:29	mg / cm ^2	0.03	0.05
23	WALL	GRAY	BRICK	D	NOT INTACT	FIRST	1	9/24/2014 9:31	mg / cm ^2	0.05	0.05
24	WALL	ORANGE	BRICK	D	NOT INTACT	FIRST	1	9/24/2014 9:32	mg / cm ^2	0.03	0.02
25	WALL	ORANGE	BRICK	A	NOT INTACT	FIRST	1	9/24/2014 9:37	mg / cm ^2	0.08	0.1
26	WALL	GRAY	BRICK	A	NOT INTACT	FIRST	1	9/24/2014 9:38	mg / cm ^2	0.09	0.1
27	WALL	WHITE	BRICK	A	NOT INTACT	FIRST	1	9/24/2014 9:39	mg / cm ^2	0.02	0.06
28	WALL	RED	BRICK	A	NOT INTACT	FIRST	1	9/24/2014 9:39	mg / cm ^2	0.09	0.03
29	WALL	WHITE	CONCRETE	A	NOT INTACT	FIRST	1	9/24/2014 9:41	mg / cm ^2	0.24	0.73
30	WALL	WHITE	BRICK	C	NOT INTACT	FIRST	1	9/24/2014 9:43	mg / cm ^2	0.01	0.02
31	WALL	WHITE	BRICK	C	NOT INTACT	FIRST	1	9/24/2014 9:44	mg / cm ^2	0.03	0.06
32	WALL	GRAY	BRICK	C	NOT INTACT	FIRST	1	9/24/2014 9:45	mg / cm ^2	0.21	0.06
33	WALL	RED	BRICK	C	NOT INTACT	FIRST	1	9/24/2014 9:46	mg / cm ^2	0.09	0.07
34	WINDOW	BROWN	WOOD	C	NOT INTACT	FIRST	1	9/24/2014 9:47	mg / cm ^2	12.3	9
35	WINDOW	GRAY	WOOD	A	NOT INTACT	FIRST	1	9/24/2014 9:49	mg / cm ^2	10.2	8.1
36	WINDOW	GRAY	METAL	A	NOT INTACT	FIRST	1	9/24/2014 9:51	mg / cm ^2	0.6	0.3
37	COLUMN	NO PAINT	METAL	A	NOT INTACT	FIRST	1	9/24/2014 9:53	mg / cm ^2	0.05	0.84
38	COLUMN	WHITE	METAL	A	NOT INTACT	FIRST	1	9/24/2014 9:55	mg / cm ^2	2.8	1.7
39	FLOOR	BROWN	BRICK	A	NOT INTACT	FIRST	1	9/24/2014 9:57	mg / cm ^2	0.12	0.04
40	GUARDING	YELLOW	METAL	A	INTACT	FIRST	1	9/24/2014 9:59	mg / cm ^2	0	0.02
41	DOOR	GRAY	METAL	C	NOT INTACT	FIRST	1	9/24/2014 10:00	mg / cm ^2	0	0.02
42	WALL	WHITE	CONCRETE	C	NOT INTACT	FIRST	1	9/24/2014 10:01	mg / cm ^2	0.04	0.02
43	DOOR	WHITE	METAL	C	NOT INTACT	FIRST	1	9/24/2014 10:02	mg / cm ^2	0	0.02
44	WALL	WHITE	BRICK	B	NOT INTACT	FIRST	1	9/24/2014 10:05	mg / cm ^2	0.7	0.1
45	WALL	GRAY	BRICK	B	NOT INTACT	FIRST	1	9/24/2014 10:06	mg / cm ^2	1.9	0.9
46	FLOOR	GRAY	BRICK	B	INTACT	FIRST	1	9/24/2014 10:07	mg / cm ^2	0.19	0.11
47	FLOOR	YELLOW	CONCRETE	B	INTACT	FIRST	1	9/24/2014 10:07	mg / cm ^2	0.07	0.06
48	FLOOR	YELLOW	CONCRETE	B	INTACT	FIRST	1	9/24/2014 10:07	mg / cm ^2	0.08	0.07
49	DOOR	TAN	METAL	A	NOT INTACT	FIRST	1	9/24/2014 10:12	mg / cm ^2	14	9.7
50	DOOR	TAN	WOOD	D	NOT INTACT	FIRST	1	9/24/2014 10:14	mg / cm ^2	0.11	0.12
51	DOOR	TAN	WOOD	D	NOT INTACT	STAIRWELL	STAIRWELL	9/24/2014 10:15	mg / cm ^2	0.6	0.2
52	DOOR	TAN	WOOD	D	NOT INTACT	STAIRWELL	STAIRWELL	9/24/2014 10:15	mg / cm ^2	0.4	0.5
53	DOOR	TAN	METAL	B	NOT INTACT	STAIRWELL	STAIRWELL	9/24/2014 10:16	mg / cm ^2	9.3	8.3
54	WALL	WHITE	METAL	C	NOT INTACT	STAIRWELL	STAIRWELL	9/24/2014 10:18	mg / cm ^2	0.08	0.12
55	WALL	WHITE	METAL	C	NOT INTACT	STAIRWELL	STAIRWELL	9/24/2014 10:18	mg / cm ^2	0.5	0.5

Limited Lead Based Paint Inspection
Former Harshaw Chemical Corporation
1000 Harvard Avenue

Reading No.	Component	Color	Substrate	Side	Cleveland, Ohio Condition	Floor	Room	Time	Units	PbC	PbC Error
56	STAIR RUNNER	GRAY	METAL	D	NOT INTACT	STAIRWELL	STAIRWELL	9/24/2014 10:21	mg / cm ^2	0.1	0.06
57	WALL	WHITE	BRICK	A	NOT INTACT	FIRST	3	9/24/2014 10:28	mg / cm ^2	0.01	0.02
58	WALL	WHITE	BRICK	B	NOT INTACT	FIRST	3	9/24/2014 10:29	mg / cm ^2	0.05	0.05
59	WALL	WHITE	BRICK	C	NOT INTACT	FIRST	3	9/24/2014 10:29	mg / cm ^2	0.06	0.04
60	WALL	WHITE	BRICK	D	NOT INTACT	FIRST	3	9/24/2014 10:30	mg / cm ^2	0.21	0.73
61	WALL	GREEN	BRICK	D	NOT INTACT	FIRST	3	9/24/2014 10:30	mg / cm ^2	0.5	0.5
62	DRIER	YELLOW	METAL	A	INTACT	FIRST	3	9/24/2014 10:31	mg / cm ^2	0.09	0.17
63	WASHER	WHITE	METAL	A	INTACT	FIRST	3	9/24/2014 10:32	mg / cm ^2	0	0.02
64	TANK STAND	BLACK	METAL	A	INTACT	FIRST	3	9/24/2014 10:33	mg / cm ^2	0	0.02
65	DOOR	GRAY	WOOD	C	INTACT	FIRST	3	9/24/2014 10:34	mg / cm ^2	0	0.02
66	FLOOR	GRAY	CONCRETE	A	NOT INTACT	FIRST	3	9/24/2014 10:35	mg / cm ^2	1.4	0.4
67	DRUM	RED	METAL	C	NOT INTACT	FIRST	3	9/24/2014 10:39	mg / cm ^2	0	0.02
68	DRUM	GRAY	METAL	C	NOT INTACT	FIRST	3	9/24/2014 10:40	mg / cm ^2	0.01	0.04
69	DOOR FRAME	BROWN	WOOD	A	NOT INTACT	FIRST	3	9/24/2014 10:41	mg / cm ^2	4.8	2.6
70	DOOR FRAME	GRAY	METAL	D	INTACT	FIRST	2	9/24/2014 10:44	mg / cm ^2	0	0.02
71	DOOR FRAME	GRAY	METAL	A	INTACT	FIRST	2	9/24/2014 10:45	mg / cm ^2	0.01	0.06
72	DOOR	GRAY	METAL	A	INTACT	FIRST	2	9/24/2014 10:45	mg / cm ^2	0	0.02
73	DOOR	GRAY	METAL	D	INTACT	FIRST	2	9/24/2014 10:46	mg / cm ^2	0.02	0.12
74	WALL	RED	BRICK	C	NOT INTACT	FIRST	4	9/24/2014 10:49	mg / cm ^2	0.07	0.04
75	WALL	WHITE	BRICK	C	NOT INTACT	FIRST	4	9/24/2014 10:50	mg / cm ^2	0.01	0.02
76	WALL	WHITE	BRICK	B	NOT INTACT	FIRST	4	9/24/2014 10:52	mg / cm ^2	4	2.6
77	WALL	BLUE	BRICK	C	NOT INTACT	FIRST	4	9/24/2014 10:52	mg / cm ^2	2.9	1.3
78	DOOR	GRAY	WOOD	B	NOT INTACT	FIRST	4	9/24/2014 10:54	mg / cm ^2	0.06	0.1
79	DOOR FRAME	GRAY	WOOD	B	NOT INTACT	FIRST	4	9/24/2014 10:55	mg / cm ^2	1.8	0.5
80	WINDOW FRAME	WHITE	METAL	B	NOT INTACT	FIRST	4	9/24/2014 10:56	mg / cm ^2	0.6	0.3
81	DOOR	GRAY	WOOD	A	NOT INTACT	FIRST	4	9/24/2014 10:58	mg / cm ^2	2.5	1.3
82	COLUMN	WHITE	METAL	C	NOT INTACT	FIRST	4	9/24/2014 11:00	mg / cm ^2	0	0.02
83	FLOOR	GRAY	CONCRETE	C	INTACT	FIRST	4	9/24/2014 11:01	mg / cm ^2	0.02	0.08
84	DOOR	BLUE	WOOD	A	INTACT	FIRST	4	9/24/2014 11:03	mg / cm ^2	1.4	0.3
85	DOOR	GRAY	WOOD	C	INTACT	FIRST	5	9/24/2014 11:04	mg / cm ^2	8.2	7
86	WALL	WHITE	CONCRETE	C	INTACT	FIRST	5	9/24/2014 11:05	mg / cm ^2	0.03	0.02
87	WALL	WHITE	CONCRETE	A	INTACT	FIRST	5	9/24/2014 11:06	mg / cm ^2	0.05	0.02
88	WALL	WHITE	CONCRETE	D	INTACT	FIRST	5	9/24/2014 11:07	mg / cm ^2	0.01	0.02
89	WALL	WHITE	CONCRETE	D	INTACT	FIRST	5	9/24/2014 11:08	mg / cm ^2	0.07	0.04
90	COLUMN	WHITE	METAL	D	INTACT	FIRST	5	9/24/2014 11:09	mg / cm ^2	0.13	0.21
91	COLUMN	WHITE	METAL	D	INTACT	FIRST	5	9/24/2014 11:09	mg / cm ^2	0.14	0.15
92	DOOR	BLUE	WOOD	D	NOT INTACT	FIRST	5	9/24/2014 11:11	mg / cm ^2	0.04	0.1
93	DOOR	GREEN	WOOD	D	NOT INTACT	FIRST	5	9/24/2014 11:11	mg / cm ^2	0.7	0.2
94	FLOOR	GRAY	CONCRETE	B	NOT INTACT	FIRST	6	9/24/2014 11:16	mg / cm ^2	0.02	0.03

Limited Lead Based Paint Inspection
Former Harshaw Chemical Corporation
1000 Harvard Avenue

Reading No.	Component	Color	Substrate	Side	Cleveland, Ohio Condition	Floor	Room	Time	Units	PbC	PbC Error
95	WALL	WHITE	BRICK	B	NOT INTACT	FIRST	6	9/24/2014 11:17	mg / cm ^2	0.24	0.1
96	COLUMN	WHITE	METAL	B	NOT INTACT	FIRST	6	9/24/2014 11:19	mg / cm ^2	0.02	0.04
97	COLUMN	WHITE	METAL	D	NOT INTACT	FIRST	6	9/24/2014 11:19	mg / cm ^2	0.19	0.25
98	COLUMN	BROWN	WOOD	C	NOT INTACT	FIRST	6	9/24/2014 11:20	mg / cm ^2	6	3.1
99	WINDOW FRAME	WHITE	METAL	D	NOT INTACT	FIRST	6	9/24/2014 11:24	mg / cm ^2	0.09	0.11
100	DOOR FRAME	GRAY	WOOD	A	NOT INTACT	FIRST	6	9/24/2014 11:27	mg / cm ^2	0	0.02
101	DOOR FRAME	GRAY	WOOD	C	NOT INTACT	FIRST	7	9/24/2014 11:31	mg / cm ^2	0.02	0.11
102	DOOR	BLUE	WOOD	C	NOT INTACT	FIRST	7	9/24/2014 11:32	mg / cm ^2	0.3	0.18
103	FREIGHT ELEVATOR DOOR	BLUE	METAL	D	NOT INTACT	FIRST	7	9/24/2014 11:34	mg / cm ^2	0.14	0.2
104	COLUMN	GRAY	CONCRETE	D	NOT INTACT	FIRST	7	9/24/2014 11:35	mg / cm ^2	0	0.02
105	COLUMN	GRAY	CONCRETE	D	NOT INTACT	FIRST	7	9/24/2014 11:36	mg / cm ^2	0	0.02
106	WALL	GRAY	CONCRETE	C	NOT INTACT	FIRST	7	9/24/2014 11:36	mg / cm ^2	0.02	0.02
107	WALL	WHITE	CONCRETE	C	NOT INTACT	FIRST	7	9/24/2014 11:37	mg / cm ^2	0.03	0.02
108	DOOR	GREEN	WOOD	B	NOT INTACT	FIRST	7	9/24/2014 11:39	mg / cm ^2	0.05	0.11
109	DOOR FRAME	GRAY	WOOD	B	NOT INTACT	FIRST	7	9/24/2014 11:40	mg / cm ^2	0.04	0.09
110	FRAME BY ELEVATOR	YELLOW	METAL	C	INTACT	FIRST	7	9/24/2014 11:43	mg / cm ^2	0	0.02
111	DOOR	GRAY	WOOD	A	INTACT	FIRST	7	9/24/2014 11:45	mg / cm ^2	0.05	0.11
112	WALL	GRAY	WOOD	A	NOT INTACT	FIRST	7	9/24/2014 11:46	mg / cm ^2	0.04	0.14
113	WALL	GRAY	CONCRETE	D	NOT INTACT	FIRST	7	9/24/2014 11:47	mg / cm ^2	2.4	1.4
114	WALL	WHITE	CONCRETE	D	NOT INTACT	FIRST	7	9/24/2014 11:47	mg / cm ^2	0.03	0.03
115	STAIR CASE	BROWN	METAL	D	NOT INTACT	FIRST	7	9/24/2014 11:49	mg / cm ^2	0.05	0.09
116	DOOR	BLACK	WOOD	C	NOT INTACT	FIRST	7	9/24/2014 11:50	mg / cm ^2	2.4	1
117	HAND RAIL	BLACK	METAL	A	NOT INTACT	FIRST	7	9/24/2014 11:52	mg / cm ^2	1.8	0.7
118	DOORFRAME	YELLOW	WOOD	A	INTACT	FIRST	7	9/24/2014 11:53	mg / cm ^2	0.05	0.11
119	FLOOR	YELLOW	CONCRETE	A	NOT INTACT	FIRST	7	9/24/2014 11:55	mg / cm ^2	0.04	0.05
120	WALL	RED	CONCRETE	C	NOT INTACT	FIRST	8	9/24/2014 12:00	mg / cm ^2	0.14	0.05
121	WALL	WHITE	CONCRETE	C	NOT INTACT	FIRST	8	9/24/2014 12:00	mg / cm ^2	0.4	0.6
122	WALL	WHITE	BRICK	C	NOT INTACT	FIRST	8	9/24/2014 12:01	mg / cm ^2	0.04	0.03
123	WALL	WHITE	BRICK	C	NOT INTACT	FIRST	8	9/24/2014 12:02	mg / cm ^2	0.27	0.07
124	COLUMN	BLACK	METAL	A	NOT INTACT	FIRST	8	9/24/2014 12:03	mg / cm ^2	0.01	0.04
125	COLUMN	BLACK	METAL	A	NOT INTACT	FIRST	8	9/24/2014 12:04	mg / cm ^2	0.08	0.18
126	WALL	GREEN	CONCRETE	C	NOT INTACT	FIRST	8	9/24/2014 12:05	mg / cm ^2	2	0.8
127	DOOR	GRAY	WOOD	C	NOT INTACT	FIRST	8	9/24/2014 12:06	mg / cm ^2	0.04	0.08
128	DOOR	GRAY	WOOD	C	NOT INTACT	FIRST	8	9/24/2014 12:06	mg / cm ^2	0.07	0.23
129	COLUMN	WHITE	METAL	C	NOT INTACT	FIRST	8	9/24/2014 12:07	mg / cm ^2	0.03	0.08
130	WALL	WHITE	CONCRETE	A	NOT INTACT	FIRST	9	9/24/2014 12:10	mg / cm ^2	0.6	0.4
131	WALL	GRAY	CONCRETE	A	NOT INTACT	FIRST	9	9/24/2014 12:10	mg / cm ^2	0	0.02
132	WALL	GRAY	CONCRETE	A	NOT INTACT	FIRST	9	9/24/2014 12:11	mg / cm ^2	0	0.02
133	WALL	GRAY	CONCRETE	A	NOT INTACT	FIRST	9	9/24/2014 12:11	mg / cm ^2	0.01	0.02

Limited Lead Based Paint Inspection
Former Harshaw Chemical Corporation
1000 Harvard Avenue

Reading No.	Component	Color	Substrate	Side	Cleveland, Ohio Condition	Floor	Room	Time	Units	PbC	PbC Error
134	WINDOW FRAME	RED	METAL	D	NOT INTACT	FIRST	9	9/24/2014 12:12	mg / cm ^2	0.05	0.03
135	WINDOW FRAME	RED	METAL	D	NOT INTACT	FIRST	9	9/24/2014 12:12	mg / cm ^2	0.03	0.08
136	DOOR	GRAY	WOOD	A	NOT INTACT	FIRST	9	9/24/2014 12:13	mg / cm ^2	0	0.03
137	DOOR	GRAY	WOOD	A	NOT INTACT	FIRST	9	9/24/2014 12:13	mg / cm ^2	0	0.03
138	DOOR FRAME	GRAY	WOOD	A	NOT INTACT	FIRST	9	9/24/2014 12:14	mg / cm ^2	0	0.03
139	DOOR FRAME	GREEN	WOOD	B	NOT INTACT	FIRST	10	9/24/2014 12:15	mg / cm ^2	0.8	0.2
140	DOOR	GREEN	WOOD	B	NOT INTACT	FIRST	10	9/24/2014 12:16	mg / cm ^2	0.8	0.2
141	WALL	WHITE	CONCRETE	B	NOT INTACT	FIRST	10	9/24/2014 12:16	mg / cm ^2	0.04	0.04
142	WALL	WHITE	CONCRETE BRICK	B	NOT INTACT	FIRST	10	9/24/2014 12:17	mg / cm ^2	0.02	0.02
143	WALL	GREEN	CONCRETE	D	NOT INTACT	FIRST	10	9/24/2014 12:17	mg / cm ^2	0.5	0.4
144	COLUMN	YELLOW	METAL	A	NOT INTACT	FIRST	10	9/24/2014 12:18	mg / cm ^2	0.19	0.21
145	DOOR	GREEN	WOOD	D	NOT INTACT	FIRST	11	9/24/2014 12:21	mg / cm ^2	0.8	0.1
146	WALL	WHITE	BRICK	D	NOT INTACT	FIRST	11	9/24/2014 12:22	mg / cm ^2	0.01	0.02
147	WALL	WHITE	BRICK	A	NOT INTACT	FIRST	11	9/24/2014 12:22	mg / cm ^2	0.02	0.05
148	BRACKET ON WALL	GRAY	METAL	B	NOT INTACT	FIRST	11	9/24/2014 12:25	mg / cm ^2	0.01	0.07
149	BRACKET ON WALL	GRAY	METAL	B	NOT INTACT	FIRST	11	9/24/2014 12:25	mg / cm ^2	0	0.02
150	FRAMING	GRAY	METAL	D	NOT INTACT	FIRST	11	9/24/2014 12:26	mg / cm ^2	0.01	0.05
151	FLOOR LOFT AREA	TEAL	WOOD	D	NOT INTACT	FIRST	11	9/24/2014 12:27	mg / cm ^2	0.6	0.3
152	FLOOR	GRAY	CONCRETE	D	NOT INTACT	FIRST	11	9/24/2014 12:28	mg / cm ^2	0.01	0.03
153	FLOOR LOFT AREA	WHITE	WOOD	A	INTACT	FIRST	11	9/24/2014 12:38	mg / cm ^2	0.01	0.05
154	DOOR	GRAY	WOOD	A	INTACT	FIRST	12	9/24/2014 12:40	mg / cm ^2	1.1	0.1
155	DOOR	GRAY	WOOD	A	INTACT	FIRST	12	9/24/2014 12:40	mg / cm ^2	1.2	0.2
156	WALL	WHITE	CONCRETE	A	INTACT	FIRST	12	9/24/2014 12:41	mg / cm ^2	1.5	0.5
157	WALL	WHITE	BRICK	C	NOT INTACT	FIRST	12	9/24/2014 12:42	mg / cm ^2	0.06	0.07
158	WALL	BLACK	BRICK	C	NOT INTACT	FIRST	12	9/24/2014 12:42	mg / cm ^2	0.07	0.03
159	COLUMN	YELLOW	METAL	A	NOT INTACT	FIRST	12	9/24/2014 12:43	mg / cm ^2	0.09	0.17
160	COLUMN	GREEN	METAL	A	NOT INTACT	FIRST	13	9/24/2014 14:16	mg / cm ^2	0.06	0.13
161	COLUMN	WHITE	METAL	A	NOT INTACT	FIRST	13	9/24/2014 14:18	mg / cm ^2	0.08	0.26
162	DOOR	GRAY	WOOD	A	NOT INTACT	FIRST	13	9/24/2014 14:19	mg / cm ^2	1.6	0.6
163	DOOR	WHITE	METAL	A	NOT INTACT	FIRST	13	9/24/2014 14:20	mg / cm ^2	2.4	1.3
164	COLUMN	WHITE	METAL	B	NOT INTACT	MEZZANINE	13	9/24/2014 14:23	mg / cm ^2	0.13	0.19
165	WALL	WHITE	BRICK	B	NOT INTACT	MEZZANINE	13	9/24/2014 14:24	mg / cm ^2	0.17	0.06
166	FLOOR	WHITE	CONCRETE	B	NOT INTACT	MEZZANINE	13	9/24/2014 14:25	mg / cm ^2	0.03	0.02
167	WALL	YELLOW	CONCRETE	D	NOT INTACT	MEZZANINE	14	9/24/2014 14:29	mg / cm ^2	0.07	0.02
168	WALL	YELLOW	CONCRETE	D	NOT INTACT	MEZZANINE	14	9/24/2014 14:30	mg / cm ^2	0.07	0.04
169	WALL GLAZED BLOCK	YELLOW	CONCRETE	B	NOT INTACT	MEZZANINE	14	9/24/2014 14:31	mg / cm ^2	0	0.02
170	WALL GLAZED BLOCK	YELLOW	DRYWALL	C	NOT INTACT	MEZZANINE	14	9/24/2014 14:32	mg / cm ^2	0.11	0.28
171	DOOR	YELLOW	WOOD	D	NOT INTACT	MEZZANINE	14	9/24/2014 14:34	mg / cm ^2	2	0.9
172	DOOR	YELLOW	WOOD	B	NOT INTACT	MEZZANINE	15	9/24/2014 14:35	mg / cm ^2	2.1	1

Limited Lead Based Paint Inspection
Former Harshaw Chemical Corporation
1000 Harvard Avenue

Reading No.	Component	Color	Substrate	Side	Cleveland, Ohio Condition	Floor	Room	Time	Units	PbC	PbC Error
173	WALL	WHITE	CONCRETE	B	NOT INTACT	MEZZANINE	15	9/24/2014 14:35	mg / cm ^2	0.3	0.59
174	FRAME	BROWN	METAL	C	NOT INTACT	MEZZANINE	15	9/24/2014 14:37	mg / cm ^2	0.02	0.07
175	DOOR	GRAY	WOOD	D	NOT INTACT	MEZZANINE	15	9/24/2014 14:38	mg / cm ^2	1.9	0.7
176	COLUMN	BLACK	METAL	C	NOT INTACT	MEZZANINE	16	9/24/2014 14:39	mg / cm ^2	0.02	0.07
177	WALL	WHITE	BRICK	A	NOT INTACT	MEZZANINE	16	9/24/2014 14:40	mg / cm ^2	0.02	0.02
178	DOOR	GRAY	WOOD	A	NOT INTACT	MEZZANINE	17	9/24/2014 14:46	mg / cm ^2	0.02	0.05
179	CERAMIC BLOCK WALL	WHITE	CONCRETE	D	NOT INTACT	MEZZANINE	17	9/24/2014 14:48	mg / cm ^2	0	0.02
180	BATHROOM PARTITION	GRAY	METAL	D	NOT INTACT	MEZZANINE	17	9/24/2014 14:49	mg / cm ^2	0.02	0.06
181	DOOR	GRAY	WOOD	A	NOT INTACT	MEZZANINE	17	9/24/2014 14:50	mg / cm ^2	0.02	0.04
182	DOOR	GRAY	WOOD	B	NOT INTACT	MEZZANINE	17	9/24/2014 14:50	mg / cm ^2	0.03	0.06
183	WALL	YELLOW	BRICK	B	NOT INTACT	MEZZANINE	17	9/24/2014 14:52	mg / cm ^2	0.05	0.02
184	TURNSTILE	WHITE	METAL	A	NOT INTACT	MEZZANINE	17	9/24/2014 14:54	mg / cm ^2	0.01	0.07
185	SHELVES	GREEN	WOOD	D	NOT INTACT	FIRST	18	9/24/2014 14:57	mg / cm ^2	0.4	0.3
186	DOOR	GRAY	WOOD	D	NOT INTACT	FIRST	18	9/24/2014 14:58	mg / cm ^2	2.8	1.7
187	DOOR	GRAY	WOOD	C	NOT INTACT	FIRST	18	9/24/2014 14:58	mg / cm ^2	0.19	0.22
188	WALL	GRAY	CONCRETE	C	NOT INTACT	FIRST	18	9/24/2014 14:59	mg / cm ^2	2.6	1.5
189	WALL	WHITE	CONCRETE	C	NOT INTACT	FIRST	18	9/24/2014 15:00	mg / cm ^2	0.7	0.3
190	WALL	GREEN	BRICK	D	NOT INTACT	FIRST	18	9/24/2014 15:01	mg / cm ^2	0.03	0.02
191	WALL	WHITE	BRICK	B	NOT INTACT	FIRST	19	9/24/2014 15:05	mg / cm ^2	0.17	0.03
192	WALL	WHITE	BRICK	B	NOT INTACT	FIRST	19	9/24/2014 15:05	mg / cm ^2	0.07	0.08
193	COLUMN	GREEN	METAL	B	NOT INTACT	FIRST	19	9/24/2014 15:06	mg / cm ^2	2.3	1.5
194	COLUMN	GREEN	METAL	B	NOT INTACT	FIRST	19	9/24/2014 15:07	mg / cm ^2	5	3.3
195	DOOR	GRAY	WOOD	B	NOT INTACT	FIRST	19	9/24/2014 15:08	mg / cm ^2	0	0.02
196	DOOR	GRAY	WOOD	A	NOT INTACT	FIRST	19	9/24/2014 15:09	mg / cm ^2	0.12	0.22
197	STAIRS	GRAY	METAL	A	NOT INTACT	FIRST	19	9/24/2014 15:09	mg / cm ^2	0.25	0.14
198	HAND RAIL	GRAY	METAL	A	NOT INTACT	SECOND	20	9/24/2014 15:11	mg / cm ^2	0.4	0.2
199	COLUMN	GRAY	METAL	A	NOT INTACT	SECOND	20	9/24/2014 15:11	mg / cm ^2	3.7	2.1
200	WALL	WHITE	BRICK	D	NOT INTACT	SECOND	20	9/24/2014 15:13	mg / cm ^2	0.3	0.68
201	WALL	WHITE	BRICK	A	NOT INTACT	THIRD	21	9/24/2014 15:17	mg / cm ^2	0.14	0.06
202	DOOR	WHITE	METAL	B	NOT INTACT	THIRD	21	9/24/2014 15:18	mg / cm ^2	4.2	2.4
203	COLUMN	GRAY	METAL	B	NOT INTACT	THIRD	21	9/24/2014 15:18	mg / cm ^2	3.8	2.3
204	DOOR	GRAY	WOOD	A	NOT INTACT	THIRD	21	9/24/2014 15:21	mg / cm ^2	0.02	0.06
205	DOOR	GRAY	WOOD	A	NOT INTACT	THIRD	21	9/24/2014 15:21	mg / cm ^2	0.04	0.08
206	WALL	GRAY	BRICK	A	NOT INTACT	SECOND	22	9/24/2014 15:39	mg / cm ^2	0.01	0.02
207	WALL	GRAY	BRICK	A	NOT INTACT	SECOND	22	9/24/2014 15:39	mg / cm ^2	0.04	0.07
208	WALL	WHITE	BRICK	A	NOT INTACT	SECOND	22	9/24/2014 15:40	mg / cm ^2	0.03	0.05
209	COLUMN	WHITE	METAL	A	NOT INTACT	SECOND	22	9/24/2014 15:40	mg / cm ^2	2	1
210	DOOR	GRAY	WOOD	D	NOT INTACT	SECOND	22	9/24/2014 15:41	mg / cm ^2	0.12	0.22
211	DOOR	GRAY	WOOD	C	NOT INTACT	SECOND	22	9/24/2014 15:42	mg / cm ^2	0.12	0.16

Limited Lead Based Paint Inspection
Former Harshaw Chemical Corporation
1000 Harvard Avenue

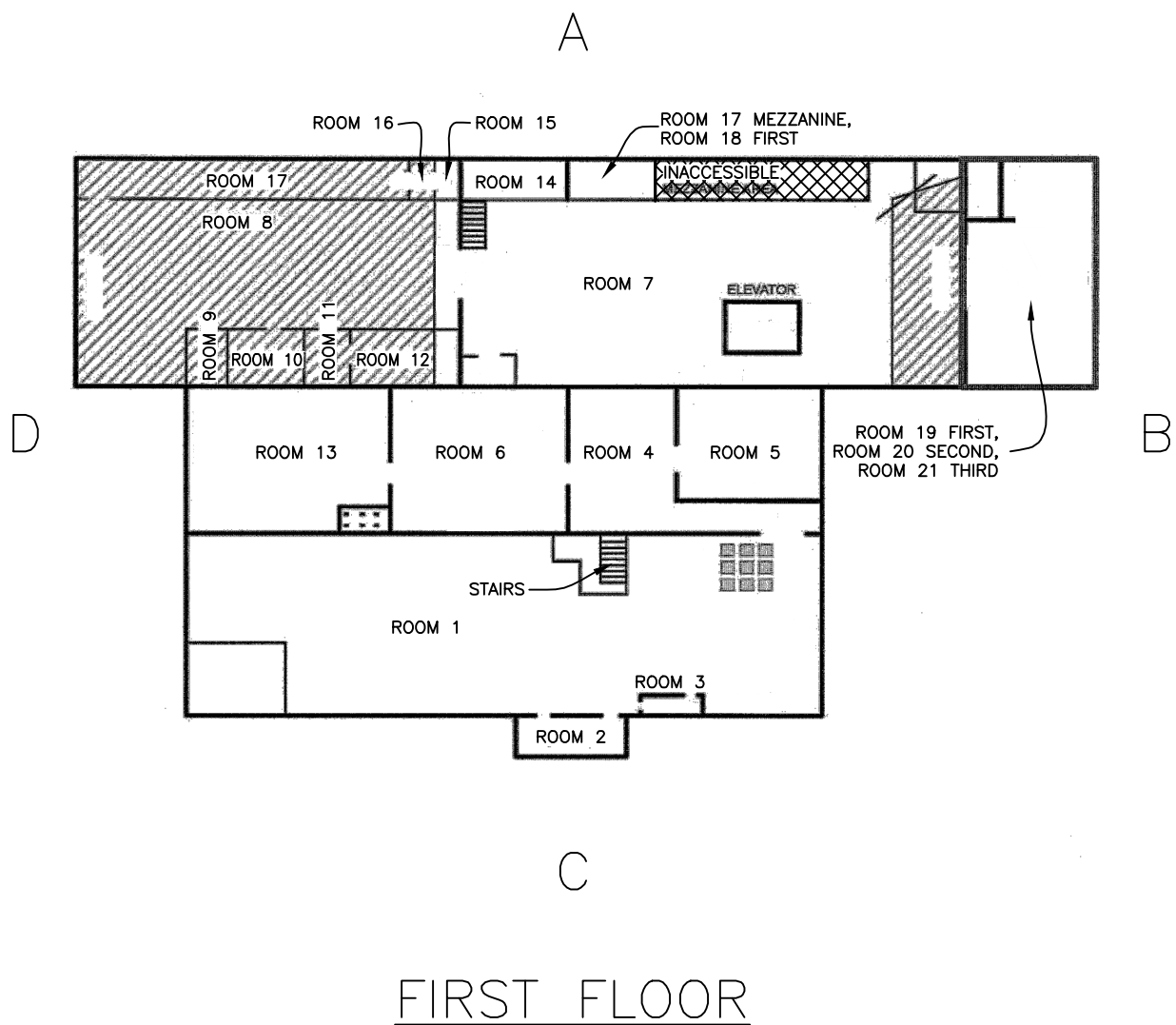
Reading No.	Component	Color	Substrate	Side	Cleveland, Ohio Condition	Floor	Room	Time	Units	PbC	PbC Error
212	WALL	RED	BRICK	D	NOT INTACT	SECOND	22	9/24/2014 15:44	mg / cm ^2	0.23	0.09
213	WALL	BLUE	BRICK	D	NOT INTACT	SECOND	23	9/24/2014 15:45	mg / cm ^2	0.27	0.06
214	WALL	BEIGE	BRICK	D	NOT INTACT	SECOND	23	9/24/2014 15:46	mg / cm ^2	0.5	0.4
215	DOOR	GREEN	WOOD	A	NOT INTACT	SECOND	23	9/24/2014 15:46	mg / cm ^2	0.01	0.08
216	DOOR	BLUE	WOOD	C	NOT INTACT	SECOND	24	9/24/2014 15:48	mg / cm ^2	0	0.02
217	DOOR	BLUE	WOOD	C	NOT INTACT	SECOND	24	9/24/2014 15:48	mg / cm ^2	0.01	0.04
218	WALL	BLUE	BRICK	B	NOT INTACT	SECOND	24	9/24/2014 15:49	mg / cm ^2	0	0.02
219	WALL	WHITE	BRICK	B	NOT INTACT	SECOND	24	9/24/2014 15:50	mg / cm ^2	0.3	0.22
220	COLUMN	WHITE	METAL	B	NOT INTACT	SECOND	24	9/24/2014 15:52	mg / cm ^2	0.04	0.15
221	RISER PIPE	WHITE	METAL	A	NOT INTACT	SECOND	24	9/24/2014 15:54	mg / cm ^2	0	0.02
222	WINDOW FRAME	WHITE	METAL	A	NOT INTACT	SECOND	24	9/24/2014 15:54	mg / cm ^2	0.01	0.03
223	WALL	BLUE	CONCRETE	B	NOT INTACT	SECOND	24	9/24/2014 15:55	mg / cm ^2	4.6	3.4
224	DOOR	BLUE	WOOD	B	NOT INTACT	SECOND	24	9/24/2014 15:55	mg / cm ^2	0.19	0.6
225	DOOR FRAME	GREEN	WOOD	D	NOT INTACT	SECOND	25	9/24/2014 15:56	mg / cm ^2	0.09	0.13
226	WALL	BLUE	CONCRETE	D	NOT INTACT	SECOND	25	9/24/2014 15:59	mg / cm ^2	0.5	0.1
227	WALL	BLUE	CONCRETE	A	NOT INTACT	SECOND	25	9/24/2014 15:59	mg / cm ^2	0.23	0.06
228	SHELVES	BLUE	WOOD	B	INTACT	SECOND	25	9/24/2014 16:00	mg / cm ^2	0.26	0.23
229	PADS	BLACK	CONCRETE	B	INTACT	SECOND	25	9/24/2014 16:01	mg / cm ^2	0.12	0.17
230	DOOR	BEIGE	WOOD	C	NOT INTACT	SECOND	25	9/24/2014 16:02	mg / cm ^2	0.4	0.3
231	DOOR	BROWN	WOOD	A	NOT INTACT	SECOND	26	9/24/2014 16:03	mg / cm ^2	0	0.02
232	DOOR	GRAY	WOOD	A	NOT INTACT	SECOND	26	9/24/2014 16:03	mg / cm ^2	0.4	0.4
233	COLUMN	BEIGE	METAL	A	NOT INTACT	SECOND	26	9/24/2014 16:04	mg / cm ^2	0.03	0.07
234	WALL	BEIGE	CONCRETE	D	NOT INTACT	SECOND	26	9/24/2014 16:05	mg / cm ^2	0.04	0.03
235	WALL	GRAY	CONCRETE	D	NOT INTACT	SECOND	26	9/24/2014 16:05	mg / cm ^2	1.8	0.5
236	DOOR ELEVATOR	GRAY	METAL	B	NOT INTACT	SECOND	26	9/24/2014 16:06	mg / cm ^2	0.4	0.4
237	SLOP SINK	GRAY	METAL	D	NOT INTACT	SECOND	26	9/24/2014 16:07	mg / cm ^2	0.9	0.1
238	SLOP SINK	GRAY	CONCRETE	D	NOT INTACT	SECOND	26	9/24/2014 16:08	mg / cm ^2	1	0.1
239	DOOR	GRAY	METAL	C	NOT INTACT	SECOND	26	9/24/2014 16:10	mg / cm ^2	0	0.02
240	WALL	GRAY	BRICK	C	NOT INTACT	SECOND	26	9/24/2014 16:11	mg / cm ^2	0	0.02
241	WALL	GRAY	BRICK	C	NOT INTACT	SECOND	26	9/24/2014 16:12	mg / cm ^2	0	0.02
242	WALL	GRAY	BRICK	B	NOT INTACT	SECOND	26	9/24/2014 16:12	mg / cm ^2	0	0.02
243	WINDOW FRAME	BEIGE	METAL	B	NOT INTACT	SECOND	26	9/24/2014 16:13	mg / cm ^2	0	0.02
244	COLUMN	BEIGE	METAL	A	NOT INTACT	SECOND	26	9/24/2014 16:13	mg / cm ^2	0.01	0.02
245	COLUMN	RED	METAL	A	NOT INTACT	SECOND	27	9/24/2014 16:14	mg / cm ^2	0.02	0.09
246	DOOR	GRAY	WOOD	C	NOT INTACT	SECOND	27	9/24/2014 16:54	mg / cm ^2	0.08	0.12
247	DOOR	WHITE	WOOD	C	NOT INTACT	SECOND	27	9/24/2014 16:54	mg / cm ^2	0.11	0.19
248	WINDOW BOARD OVER OPENING	GRAY	WOOD	C	INTACT	SECOND	27	9/24/2014 16:56	mg / cm ^2	0	0.02
249	DOOR	GRAY	WOOD	C	NOT INTACT	SECOND	27	9/24/2014 16:56	mg / cm ^2	0	0.02
250	BRACKET	WHITE	METAL	C	NOT INTACT	SECOND	27	9/24/2014 16:57	mg / cm ^2	0.01	0.04

Limited Lead Based Paint Inspection
Former Harshaw Chemical Corporation
1000 Harvard Avenue

Reading No.	Component	Color	Substrate	Side	Cleveland, Ohio Condition	Floor	Room	Time	Units	PbC	PbC Error
251	BRACKET	GRAY	METAL	C	NOT INTACT	SECOND	27	9/24/2014 16:57	mg / cm ^2	0	0.02
252	TIE LINE BOX	GRAY	METAL	C	NOT INTACT	SECOND	27	9/24/2014 16:58	mg / cm ^2	0	0.02
253	TIE LINE BOX	GRAY	METAL	C	NOT INTACT	SECOND	27	9/24/2014 16:58	mg / cm ^2	0.02	0.12
254	TIE LINE BOX	GRAY	METAL	C	NOT INTACT	SECOND	27	9/24/2014 16:58	mg / cm ^2	0	0.03
255	WINDOW BOARD OVER	GRAY	WOOD	C	INTACT	SECOND	27	9/24/2014 17:01	mg / cm ^2	0	0.02
256	WINDOW BOARD OVER	GRAY	WOOD	B	INTACT	SECOND	27	9/24/2014 17:01	mg / cm ^2	0	0.02
257	DOOR	RED	METAL	B	NOT INTACT	SECOND	27	9/24/2014 17:02	mg / cm ^2	0.03	0.13
258	WALL	BEIGE	BRICK	A	NOT INTACT	SECOND	27	9/24/2014 17:05	mg / cm ^2	0.01	0.02
259	WALL	BLACK	BRICK	A	NOT INTACT	SECOND	27	9/24/2014 17:05	mg / cm ^2	0.05	0.04
260	WALL	BLACK	CONCRETE	A	NOT INTACT	SECOND	27	9/24/2014 17:06	mg / cm ^2	0.06	0.03

APPENDIX F

LEAD AND HAZARDOUS MATERIALS SURVEY MAPS



LEGEND

NOT TO SCALE

FIGURE 1.0 **LEAD & HAZARDOUS MATERIALS SURVEY** FORMER HARSHAW CHEMICAL COMPANY 1000 HARVARD AVENUE CLEVELAND, OHIO

PREPARED FOR
ENVIRONMENTAL CHEMICAL CORPORATION
EDISON, NEW JERSEY

DRAWN CLW/10-10-14

CHECKED

REVISED

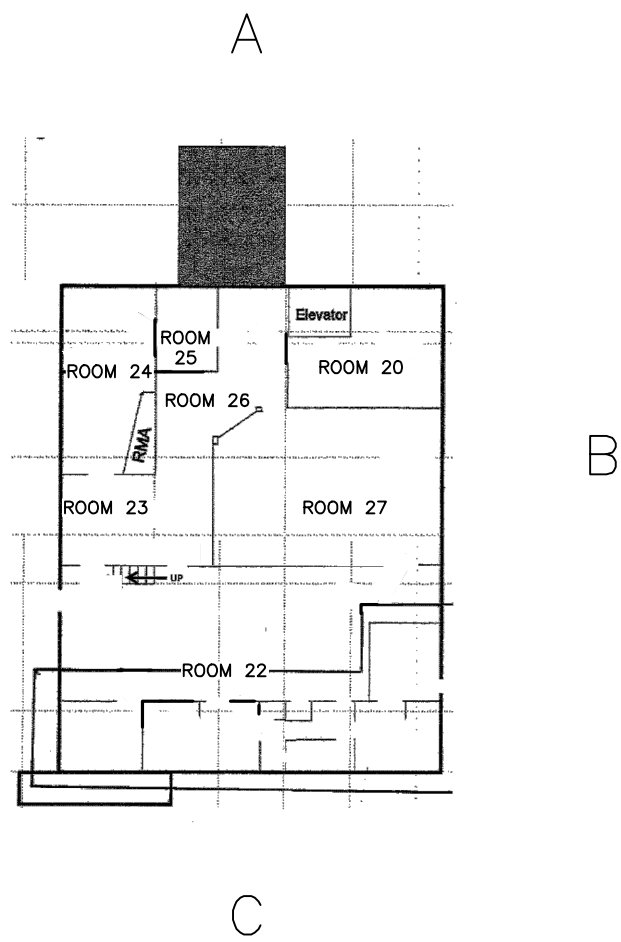
APPROVED

JOB NO. 11762.01

DRAWING NUMBER

1176201-01H





SECOND FLOOR

LEGEND

NOT TO SCALE

FIGURE 2.0 LEAD & HAZARDOUS MATERIALS SURVEY FORMER HARSHAW CHEMICAL COMPANY 1000 HARVARD AVENUE CLEVELAND, OHIO

PREPARED FOR
ENVIRONMENTAL CHEMICAL CORPORATION
EDISON, NEW JERSEY

DRAWN CLW/10-10-14

CHECKED

REVISED

APPROVED

JOB NO. 11762.01

DRAWING NUMBER

1176201-02H



APPENDIX G

HAZARDOUS MATERIALS SURVEY SUMMARY TABLE

**HAZARDOUS MATERIALS TABLE
FORMER HARSHAW CHEMICAL CORPORATION
1000 HARVARD AVENUE
CLEVELAND, OHIO
TTL PROJECT NO. 11762.01**

	Exterior	First Floor	Second Floor	Third Level High Bay	Total
Mercury Vapor Light Bulbs	11	1	3	3	18
Fluorescent Light Bulbs	0	0	4 + a pile in Room 24 not estimated	0	4 + a pile in Room 24 not estimated
Ballasts	0	0	4 + a pile in Room 24 not estimated	109	113 + a pile in Room 24 not estimated
Halogen Flood Lights	2	0	0	0	2
Large Bus Fuses	4	0	0	0	4
Radioactive Waste	Piles and Areas Through-Out Quantity Not Estimated				