

# Limited Asbestos Survey

**Project: Renovate Facility Restrooms**

**V.A. Project No. 552-13-203**

**Dayton V.A. Medical Center**

**4100 W. Third Street**

**Dayton, Montgomery County, Ohio**

**January 14, 2013**

**Terracon Project No. N1127261**



**Prepared for:**

John Poe Architects

Dayton, Ohio

**Prepared by:**

Terracon Consultants, Inc.

Cincinnati, Ohio

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January 14, 2013



John Poe Architects  
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Re: Limited Asbestos Survey  
Project: Renovate Facility Restrooms  
V.A. Project No. 552-13-203  
Dayton V.A. Medical Center  
4100 W. Third Street  
Dayton, Montgomery County, Ohio  
Terracon Project No. N1127261

Dear Mr. Hesse:

The purpose of this report is to present the results of a limited asbestos survey performed on December 10, 13, and 14, 2012, in support of the above-referenced project. We understand that this limited survey was requested due to the future planned renovation of 55 areas (most of which are current restrooms) in 11 buildings at the Dayton V.A. Medical Center campus. This limited survey was conducted in general accordance with our proposal number PN1120228, dated March 26, 2012. It should be noted that the asbestos survey was specifically limited to the inspection of accessible suspect asbestos-containing materials (ACMs) which are related to client-defined project-specific areas to be renovated.


Friable and non-friable ACMs were identified as a result of the limited survey. Please refer to the attached report for details.

Terracon appreciates the opportunity to provide this service to John Poe Architects. If you have any questions regarding this report, please contact the undersigned at 513-321-5816.

Sincerely,

**Terracon Consultants, Inc.**

*Prepared By:*

  
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**LIMITED ASBESTOS SURVEY**  
**Project: Renovate Facility Restrooms**  
**V.A. Project No. 552-13-203**  
**Dayton V.A. Medical Center**  
**Terracon Project No. N1127261**  
January 14, 2013

## **1.0 INTRODUCTION**

Terracon conducted a project-specific asbestos survey at the Dayton V.A. Medical Center (DVAMC) campus, which is located at 4100 W. Third Street in Dayton, Ohio. The asbestos survey was specifically limited to the inspection of accessible suspect asbestos-containing materials (ACMs), which are located in client-defined project-specific areas to be renovated (55 areas, most of which are current restrooms, in 11 campus buildings). A client-provided spreadsheet, which lists the 55 areas included in our limited survey, is attached in Appendix D.

The limited survey was conducted on December 10, 13, and 14, 2012, by a team of Ohio Department of Health (ODH) certified Asbestos Hazard Evaluation Specialists (AHES) in general accordance with Terracon Proposal No. PN1120228, dated March 26, 2012. Accessible homogeneous areas of suspect asbestos-containing materials (ACMs) were visually identified and documented within the client-defined project-specific areas to be renovated. Although reasonable effort was made to identify accessible suspect materials, additional suspect, but un-sampled materials could be located in voids or in other concealed areas (e.g. above hard plaster or drywall ceilings, embedded within walls, within equipment, within inaccessible wall/ceiling chases, view concealed by items, etc.). Suspect ACM samples were collected in general accordance with the sampling protocols outlined in EPA regulation 40 CFR 763 (Asbestos Hazard Emergency Response Act, AHERA). Samples were delivered to an accredited laboratory for analysis by polarized light microscopy (PLM).

### **1.1 Project Objective**

As previously indicated, we understand that this limited asbestos survey was requested due to the future planned renovation of 55 areas (most of which are current restrooms, in 11 campus buildings).

EPA regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAPs), prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAPs requires that potentially regulated ACM (RACM) be identified, classified, and quantified prior to planned disturbances or demolition activities.

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## **2.0 PROJECT DESCRIPTION**

Terracon understands that our limited asbestos survey has been requested in support of a project-specific renovation project. The project involves the renovation of various current restrooms, and the expansion of various current restrooms into adjacent spaces. A client-provided list of the 55 areas, which are located in 11 campus buildings, and which are included in our limited survey, is attached in Appendix D.

## **3.0 FIELD ACTIVITIES**

The limited survey was conducted by Ms. Alicia M. Roberts, Mr. Jason A. Gill, and Mr. John H. Thomas, each of whom is certified by ODH as an AHES. Copies of their state credentials are attached as Appendix E. The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763, the Asbestos Hazard Emergency Response Act (AHERA). A summary of survey activities is provided below.

### **3.1 Visual Assessment**

Our sampling activities began with a review of the project drawings and visual field observations to identify homogeneous areas of suspect ACMs which may be impacted by the project. A homogeneous area consists of suspect ACMs that appear similar throughout in terms of color, texture, and apparent date of application.

Demolition of walls, ceilings, equipment, etc. to identify possible hidden suspect ACMs was not conducted. Materials identified as concrete, glass, wood, masonry, metal, or rubber were not considered suspect ACMs.

### **3.2 Physical Assessment**

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

### **3.3 Sample Collection**

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with AHERA sampling protocols. Random samples of suspect materials were collected in each homogeneous area. Sample team members collected bulk samples using wet methods as applicable to reduce the potential for fiber release. Samples were



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placed in sealable containers and labeled with unique sample numbers using an indelible marker.

A total of 363 bulk samples (not including layers) were collected from 118 homogeneous areas of suspect ACMs. A summary of suspect ACM samples collected during the sampling is included as Appendix A.

### 3.4 Sample Analysis

Bulk samples were submitted under chain of custody to IATL of Mt. Laurel, New Jersey for analysis by polarized light microscopy per EPA methodology EPA/600/R-93/116. The percentage of asbestos, where applicable, was determined by microscopic visual estimation and point counting. IATL is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP Accreditation No. 101165-0).

## 4.0 REGULATORY OVERVIEW

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing materials prior to demolition or renovation activity. Under NESHAP, ACM are classified as either friable, Category I non-friable or Category II non-friable ACM. Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure. Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos. Category II non-friable ACM are any materials other than Category I materials that contain more than 1% asbestos. Friable ACM, Category I and Category II non-friable ACM which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities are considered regulated ACM (RACM).

In Ohio, the federal NESHAP regulation has been delegated to the state EPA. At the subject project location, the Regional Air Pollution Control Authority (RAPCA) is responsible for administering and enforcing the federal and state EPA regulations. NESHAP notifications must be submitted to the SOAQA 10 business days prior to project commencement (where >160 SF / 260 LF of friable ACM is removed annually, facility-wide).

ODH regulates friable ACMs containing more than 1% asbestos. ODH regulates asbestos abatement activities, asbestos personnel training, and issuance of asbestos professional certifications within the state under OAC 3701-34-01 through 3701-34-11. Additionally, ODH audits asbestos abatement projects and responds to public health emergencies where friable ACMs has been released. ODH requires a 10-day notification be submitted prior to the

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abatement of friable ACMs in quantities greater than 50 linear or 50 square feet (per project). For more information about ODH's asbestos program, their website can be found at <http://www.odh.state.oh.us/>.

The Occupational Safety and Health Administration (OSHA) Asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc). The OSHA standard classifies construction and maintenance activities which could disturb ACM, and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

## 5.0 FINDINGS AND RECOMMENDATIONS

Analytical results in regard to suspect ACMs sampled in project-specific areas indicated the present of asbestos in the following materials which are listed in the table below. A summary of the locations, classification, condition, and approximate quantity of the confirmed ACMs are presented in Appendix B. Laboratory analytical reports are included in Appendix C.

Off-white cloth-wrapped white cementitious pipe insulation (including fittings)	Building 126, Restroom 104
Black fibrous mortar under 1"x1" blue ceramic floor tile	Building 128, Restroom 120
Gray mortar under 1"x1" peach and green ceramic floor tile, and under 1"x1" blue and cream ceramic floor tile	Building 307, Restrooms 002, 003, 102, and 103
White mastic/sealant on fiberglass pipe insulation	Building 307, Restrooms 002, 003, 102, and 103
Joint compound (drywall system component) - walls	Building 307, Restrooms 002, 003, 102, and 103
Black mastic under non-ACM 12"x12" green speckled and tan/green speck floor tile	Building 310, currently a hallway to women's restroom 1E-158 (to become storage room 1E-158B)
Cream mastic/sealant on fiberglass duct insulation	Bldg 310, on fiberglass-wrapped ductwork above drop ceilings in restrooms 1E-158, 1E-158A, 2E-107, 2E-108, 2E-139, 2E-140, and storage 1E-158B (current hall to women's restroom)

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Terracon has also been contracted with the client to provide asbestos abatement specifications (utilizing V.A. master templates) relative to this project. The identified project-specific ACMs will be addressed in those specifications, and will be submitted to the client under separate covers.

## **6.0 GENERAL COMMENTS**

The limited asbestos survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our field visit. The asbestos survey was specifically limited to the inspection of accessible suspect asbestos-containing materials (ACMs) in 55 areas (related to 11 campus buildings) which were defined by the client. A copy of a client-provided spreadsheet, which list the 55 areas included in our limited survey, is attached in Appendix D.

Although reasonable effort was made to identify accessible suspect materials, additional suspect but un-sampled materials could be located in voids or in other concealed areas (e.g. above hard plaster or drywall ceilings, embedded within walls, within equipment, within inaccessible wall or ceiling chases, view concealed by items, etc.). If additional homogeneous suspect ACMs, not previously sampled/identified during this limited survey are encountered, those additional identified homogeneous suspect ACMs must be assumed to contain asbestos until sampled by state credentialed AHES and shown otherwise.

The information contained in this report is relevant to the date on which this sampling was performed, and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by John Poe Architects for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories, or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.



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**APPENDIX A**

**LIMITED ASBESTOS SURVEY - SAMPLE SUMMARY**

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**LIMITED ASBESTOS SURVEY - SAMPLE SUMMARY**  
**Project: Renovate Facility Restrooms (VA Project No. 552-13-203)**  
**Dayton, V.A. Medical Center - 4100 W. 3<sup>rd</sup> Street, Dayton, Ohio**

Sample Number	Description	Sample Location	Material Location	Results
01-MA8-001	Gray grout around floor tile (FT)	NW corner	Building (Bldg) 120 – Restroom (RR) 101 around blue 1"x1" ceramic FT	No asbestos detected
01-MA8-002				No asbestos detected
01-MA8-003				No asbestos detected
02-MA7-004	Gray mortar under FT	NW corner	Bldg 120 – RR 101 under blue 1"x1" ceramic FT	No asbestos detected
02-MA7-005				No asbestos detected
02-MA7-006				No asbestos detected
03-MA8-007	White grout around wall tile	NW corner	Bldg 120 – RR 101 around cream ceramic wall tile	No asbestos detected
03-MA8-008				No asbestos detected
03-MA8-009				No asbestos detected
04-MA7-010	White mortar under wall tile	NW corner	Bldg 120 – RR 101 under cream ceramic wall tile	No asbestos detected
04-MA7-011				No asbestos detected
04-MA7-012				No asbestos detected
05-FT2, MG2-013	Cream fleck 12"x12" vinyl composition (floor) tile (VCT) with black mastic over particle board sub flooring	7' S of N wall & 6' E of W wall	Bldg 120 – Foyer floor	No asbestos detected
05-FT2, MG2-014				No asbestos detected
05-FT2, MG2-015				No asbestos detected
06-HP1, HP2-016	White wall & ceiling plaster	RR 101 – ceiling above toilet	Bldg 120 – Foyer & RR 101, walls & ceilings	No asbestos detected
06-HP1, HP2-017		Foyer – E wall, N of main museum entry doors		No asbestos detected
06-HP1, HP2-018		RR 101 – W wall, S of door		No asbestos detected
07-PI1-019	Off-white cloth-wrapped white cementitious pipe insulation	Radiant hot water pipe along E wall, 4' N of S wall	Bldg 126 – RR 104, radiator hot water pipe (SE corner)	<b>20% chrysotile/ 10% crocidolite asbestos</b>
07-PI1-020		Radiant hot water pipe along E wall, 1' N of S wall		<b>20% chrysotile/ 10% crocidolite asbestos</b>
07-PI1-021		Radiant hot water pipe along E wall, 2' N of S wall		<b>20% chrysotile/ 10% crocidolite asbestos</b>

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Sample Number	Description	Sample Location	Material Location	Results
08-SC5-022	White sealant	Pipe end S of sink	Bldg 126 – RR 104, on pipe insulation ends near sink	No asbestos detected
08-SC5-023		Pipe end N of sink		No asbestos detected
08-SC5-024		Pipe end S of sink		No asbestos detected
09-HP3-025	White scratch coat plaster (over concrete walls)	W wall above sink	Bldg 126 – RR 104 walls	No asbestos detected
09-HP3-026				No asbestos detected
09-HP3-027				No asbestos detected
10-MA5-028	Gray concrete patch	NE corner of RR 104 on warehouse side of walls	Bldg 126 – warehouse side of RR 104 walls	No asbestos detected
10-MA5-029				No asbestos detected
10-MA5-030				No asbestos detected
11-MS5-031	Brown wall insulation	NE corner of RR 104 on warehouse side of walls	Bldg 126 – between walls of RR 104 and warehouse	No asbestos detected
11-MS5-032				No asbestos detected
11-MS5-033				No asbestos detected
12-MG5-034	Yellow mastic under wall tile	W wall, S of sinks	Bldg 128 – RR 120 walls under blue ceramic wall tile	No asbestos detected
12-MG5-035				No asbestos detected
12-MG5-036				No asbestos detected
13-MA8-037	White grout around wall tile	W wall, S of sinks	Bldg 128 – RR 120 walls around blue ceramic wall tile	No asbestos detected
13-MA8-038				No asbestos detected
13-MA8-039				No asbestos detected
14-MA8-040	Gray grout around FT	E side of door frame	Bldg 128 – RR 120 floor around blue 1"x1" ceramic FT	No asbestos detected
14-MA8-041				No asbestos detected (grout); 10% chrysotile in attached mortar layer – see samples 043, 044, 045
14-MA8-042				No asbestos detected (grout)
15-MA7-043	Black mortar under FT	E side of door frame	Bldg 128 – RR 120 floor under blue 1"x1" ceramic FT	20% chrysotile asbestos
15-MA7-044				20% chrysotile asbestos
15-MA7-045				20% chrysotile asbestos

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Sample Number	Description	Sample Location	Material Location	Results
16-HP1-046	White wall plaster	RR N wall, E of shower room door	Bldg 128 – RR 120 walls & shower room walls & ceilings	No asbestos detected
16-HP1-047		RR S wall, bottom W side of window		No asbestos detected
16-HP1-048		Shower N wall, above E shower stall		No asbestos detected
17-CT4-049	White pin & long fissure 2'x4' drop ceiling tile (DCT)	RR ceiling 2' N of S wall & 2' E of W wall	Bldg 128 – RR 120 ceiling	No asbestos detected
17-CT4-050				No asbestos detected
17-CT4-051				No asbestos detected
18-FT2, MG2-052	Tan fleck 12"x12" VCT with tan & black mastic	N wall at W side of door frame	Bldg 131 – RR 104 floor	No asbestos detected
18-FT2, MG2-053				No asbestos detected
18-FT2, MG2-054				No asbestos detected
19-FC3, MG3-055	Dark brown 4" vinyl cove base (VCB) with tan mastic	N wall, W of door	Bldg 131 – RR 104 wall cove base	No asbestos detected
19-FC3, MG3-056				No asbestos detected
19-FC3, MG3-057				No asbestos detected
20-MS5-058	Tan & brown terrazzo flooring	NE corner	Bldg 220 – toilet 2 (handicap RR) floor & cove base	No asbestos detected
20-MS5-059				No asbestos detected
20-MS5-060				No asbestos detected
21-MG5-061	Tan mastic under wall tile	S side of shower wall at E end	Bldg 220 – toilet 2 wall near shower, under cream ceramic wall tile	No asbestos detected
21-MG5-062				No asbestos detected
21-MG5-063				No asbestos detected
22-MA8-064	White grout around wall tile	S side of shower at E end	Bldg 220 – toilet 2 wall near shower, around cream ceramic wall tile	No asbestos detected
22-MA8-065				No asbestos detected
22-MA8-066				No asbestos detected
23-CT4-067	White pin & long fissure 2'x4' DCT	Toilet 2 - 3' S of N wall & 5' W of E wall	Bldg 220 – toilet 1 (staff RR) & toilet 2	No asbestos detected
23-CT4-068		Toilet 1 – 3' S of N wall & 1' E of W wall		No asbestos detected
23-CT4-069		Toilet 2 - 3' S of N wall & 5' W of E wall		No asbestos detected
24-HP1, HP2-070	White & gray wall & ceiling plaster	Toilet 2 - ceiling, S side of shower above DCT	Bldg 220 – toilet 1 & 2 walls & ceilings	No asbestos detected
24-HP1, HP2-071		Toilet 1 – N wall over door		No asbestos detected
24-HP1, HP2-072		Toilet 2 - ceiling, S side of shower above DCT		No asbestos detected

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Sample Number	Description	Sample Location	Material Location	Results
25-WB1-073	White gypsum board, paper tape, & joint compound (over plaster)	Toilet 2 - wall, S side of shower at E end	Bldg 220 – toilet 1 & 2 walls	No asbestos detected
25-WB1-074		Toilet 1 – N wall over door		No asbestos detected
25-WB1-075		Toilet 2 - wall, S side of shower at E end		No asbestos detected
26-FC1-076	Tan square pattern sheet flooring	NE corner	Bldg 220 – toilet 1 floor	No asbestos detected
26-FC1-077				No asbestos detected
26-FC1-078				No asbestos detected
27-FC3,MG3-079	Tan 4" VCB with tan & brown mastic	NE corner	Bldg 220 – toilet 1 cove base	No asbestos detected
27-FC3,MG3-080				No asbestos detected
27-FC3,MG3-081				No asbestos detected
28-WB2-082	Green gypsum board	S wall of NW corner	Bldg 305 – RR 112 (currently Mens) NW corner walls	No asbestos detected
28-WB2-083				No asbestos detected
28-WB2-084				No asbestos detected
29-MA8-085	Off-white grout around FT	W side of door frame	Bldg 305 – RR 112 floor around tan & brown 1"x1" ceramic FT	No asbestos detected
29-MA8-086				No asbestos detected
29-MA8-087				No asbestos detected
30-MA7-088	Gray mortar under FT	W side of door frame	Bldg 305 – RR 112 floor under tan & brown 1"x1" ceramic FT	No asbestos detected
30-MA7-089				No asbestos detected
30-MA7-090				No asbestos detected
31-MA8-091	White grout around wall tile	W side of door frame	Bldg 305 – RR 112 walls around tan ceramic wall tile	No asbestos detected
31-MA8-092				No asbestos detected
31-MA8-093				No asbestos detected
32-MG5-094	Yellow mastic under wall tile	W side of door frame	Bldg 305 – RR 112 floor under tan ceramic wall tile	No asbestos detected
32-MG5-095				No asbestos detected
32-MG5-096				No asbestos detected
33-WB1-097	White gypsum board, paper tape, & joint compound	S side of partition wall S of sinks, at E end	Bldg 305 – RR 112 walls	No asbestos detected
33-WB1-098				No asbestos detected
33-WB1-099				No asbestos detected

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Sample Number	Description	Sample Location	Material Location	Results
34-CT4-100	White pin & long fissure 2'x4' DCT	4' E of W wall & 8' S of N wall	Bldg 305 – RR 112 drop ceiling	No asbestos detected
34-CT4-101		2' E of W wall & 12' S of N wall		No asbestos detected
34-CT4-102		4' E of W wall & 8' S of N wall		No asbestos detected
35-CT3-103	White textured & molded 2'x2' DCT	N wall, 3' E of W wall	Bldg 305 – RR 123 (currently Women's RR) drop ceiling	No asbestos detected
35-CT3-104		NW-most ceiling tile		No asbestos detected
35-CT3-105		N wall, 3' E of W wall		No asbestos detected
36-MA7-106	Tan mortar under FT	N side of door frame	Bldg 305 – RR 123 under white 1"x1" ceramic FT	No asbestos detected
36-MA7-107				No asbestos detected
36-MA7-108				No asbestos detected
37-MA8-109	Gray grout around FT	N side of door frame	Bldg 305 – RR 123 around white 1"x1" ceramic FT	No asbestos detected
37-MA8-110				No asbestos detected
37-MA8-111				No asbestos detected
38-HP2-112	White ceiling plaster	RR 112 - NW corner	Bldg 305 – RR 112 & RR 123 upper ceilings (above DCT)	No asbestos detected
38-HP2-113		RR 123 - W wall, 2' N of S wall		No asbestos detected
38-HP2-114		RR 112 - NW corner		No asbestos detected
38-HP2-115		RR 123 - W wall, 2' N of S wall		No asbestos detected
38-HP2-116		RR 112 - NW corner		No asbestos detected
39-MA8-117	Gray grout around FT	W side of door frame	Bldg 307 – RR 003 & 103 around peach & green 1"x1" ceramic FT	No asbestos detected
39-MA8-118				No asbestos detected
39-MA8-119				No asbestos detected
40-MA7-120	Gray mortar under FT	W side of door frame	Bldg 307 – RR 003 & 103 under peach & green 1"x1" ceramic FT	Trace (<1%) chrysotile asbestos
40-MA7-121				Trace (<1%) chrysotile asbestos
40-MA7-122				Trace (<1%) chrysotile asbestos
41-MA7-123	Gray mortar under FT	W side of door frame	Bldg 307 – RR 002 & 102 under blue & cream 1"x1" ceramic FT	Trace (<1%) chrysotile asbestos
41-MA7-124				Trace (<1%) chrysotile asbestos
41-MA7-125				Trace (<1%) chrysotile asbestos



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Sample Number	Description	Sample Location	Material Location	Results
42-MA8-126	Gray grout around FT	W side of door frame	Bldg 307 – RR 002 & 102 around blue & cream 1"x1" ceramic FT	No asbestos detected
42-MA8-127				No asbestos detected
42-MA8-128				No asbestos detected
43-CT3-129	White pin & long fissure 2'x2' DCT	2' W of E wall & 6' S of N wall	Bldg 307 – RR 002, 003, 102, & 103	No asbestos detected
43-CT3-130				No asbestos detected
43-CT3-131				No asbestos detected
44-SC5-132	White mastic/sealant on fiberglass pipe insulation	RR 003 – from pipe wrap on floor within wall cavity behind access panel in NE corner	Bldg 307 – RR 002, 003, 102, & 103	<b>0.25% chrysotile asbestos</b>
44-SC5-133				<b>0.25% chrysotile asbestos</b>
44-SC5-134				<b>0.25% chrysotile asbestos</b>
45-MG5-135	Tan mastic under wall tile	W wall of entry at S end	Bldg 307 – RR 002 & 102 under cream 3"x5" ceramic wall tile	No asbestos detected (mastic); 0.25% chrysotile (joint compound layer – see samples 138 – 146)
45-MG5-136				No asbestos detected (mastic); 0.25% chrysotile (joint compound layer – see samples 138 – 146)
45-MG5-137				No asbestos detected (mastic); 0.25% chrysotile (joint compound layer – see samples 138 – 146)
46-MA8-138	White grout around wall tile	W wall of entry at S end	Bldg 307 – RR 002 & 102 around cream 3"x5" ceramic wall tile	No asbestos detected
46-MA8-139				No asbestos detected
46-MA8-140				No asbestos detected
47-WB1-141	Green gypsum board, paper tape, & joint compound	RR 002 - E wall, above DCT, 6' S of N wall	Bldg 307 – RR 002, 003, 102, & 103	<b>1.7% chrysotile asbestos (joint compound); trace (&lt;1%) chrysotile composite</b>
47-WB1-142		W wall, above DCT, 6' S of N		<b>1.8% chrysotile asbestos (joint compound); trace (&lt;1%) chrysotile composite</b>
47-WB1-143		RR 002 - E wall, above DCT, 6' S of N wall		<b>2.0% chrysotile asbestos (joint compound); trace (&lt;1%) chrysotile composite</b>

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Sample Number	Description	Sample Location	Material Location	Results
48-WB1-144	White gypsum board, paper tape, & joint compound	RR 103 – N wall above DCT over door	Bldg 307 – RR 002, 003, 102, & 103	2.3% chrysotile asbestos (joint compound); trace (<1%) chrysotile composite
48-WB1-145				1.8% chrysotile asbestos (joint compound); trace (<1%) chrysotile composite
48-WB1-146				1.7% chrysotile asbestos (joint compound); trace (<1%) chrysotile composite
49-FT2, MG2-147	Tan & green speck 12"x12" VCT with tan over black mastic	S end, 2' E of W wall	Bldg 310 – Hall to RR 1E-158 (current women's RR)	No asbestos detected (tile); 0.5% chrysotile asbestos (mastic)
49-FT2, MG2-148		N end, 1' E of W wall		No asbestos detected (tile or mastic)
49-FT2, MG2-149		5' S of N end & 1' W of E wall		No asbestos detected (tile); 0.5% chrysotile asbestos (mastic)
50-FT2, MG2-150	Green speckled 12"x12" VCT with tan over black mastic	1' SW of NE corner	Bldg 310 – Hall to RR 1E-158	No asbestos detected (tile); trace (1%) chrysotile asbestos (mastic)
50-FT2, MG2-151		S end, 1' W of E wall		No asbestos detected (tile); 0.5% chrysotile asbestos (mastic)
50-FT2, MG2-152		1' E of W & 5' S of N end		No asbestos detected (tile); 0.25% chrysotile asbestos (mastic)
51-FC3, MG3-153	Tan 4" VCB with cream mastic	S wall of SW corner	Bldg 310 – Hall to RR 1E-158	No asbestos detected
51-FC3, MG3-154				No asbestos detected
51-FC3, MG3-155				No asbestos detected
52-WB1-156	Green gypsum board, paper tape, & joint compound	NE corner above DCT	Bldg 310 – Hall to RR 1E-158 & RR 1E-158 E & W walls	No asbestos detected
52-WB1-157		E wall, NE corner above DCT		No asbestos detected
52-WB1-158		NE corner above DCT		No asbestos detected
53-CT4-159	White pin & long fissure 2'x4' DCT	RR 1E-158 – middle ceiling	Bldg 310 – RR 1E-158, hall to RR 1E-158, 2E-107, 2E-108, 2E-139, & 2E-140	No asbestos detected
53-CT4-160				No asbestos detected
53-CT4-161				No asbestos detected
54-CT4-162	White pin & crater 2'x4' DCT	RR 1E-152 - 5' S of N wall & 8' E of W wall	Bldg 310 – RR 1E-152, RR 1E-158, & hall to RR 1E-158	No asbestos detected
54-CT4-163		RR 1E-152 - W wall of sink recess, 1' S of N wall		No asbestos detected
54-CT4-164		RR 1E-152 - 5' S of N wall & 6' E of W wall		No asbestos detected

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Sample Number	Description	Sample Location	Material Location	Results
55-MA8-165	Gray grout around FT	RR 1E-152 – E side of door frame	Bldg 310 – RR 1E-152 around gray 2"x2" ceramic FT	No asbestos detected
55-MA8-166				No asbestos detected
55-MA8-167				No asbestos detected
56-MA7-168	Gray grout under FT	RR 1E-152 – E side of door frame	Bldg 310 – RR 1E-152 under gray 2"x2" ceramic FT	No asbestos detected
56-MA7-169				No asbestos detected
56-MA7-170				No asbestos detected
57-MA8-171	White grout around wall tile	N wall, E of door	Bldg 310 – RR 1E-152 around cream 4"x4" ceramic wall tile	No asbestos detected
57-MA8-172				No asbestos detected
57-MA8-173				No asbestos detected
58-MG5-174	Tan mastic under wall tile	N wall, E of door	Bldg 310 – RR 1E-152 under cream 4"x4" ceramic wall tile	No asbestos detected
58-MG5-175				No asbestos detected
58-MG5-176				No asbestos detected
59-MA8-177	Gray grout around FT	W side of door frame	Bldg 310 – RR 1E-158, 2E-107, 2E-108, 2E-139, & 2E-140, around gray & tan 1"x1" ceramic FT	No asbestos detected
59-MA8-178				No asbestos detected
59-MA8-179				No asbestos detected
60-MA7-180	Gray mortar under FT	W side of door frame	Bldg 310 – RR 1E-158, 2E-107, 2E-108, 2E-139, & 2E-140, under gray & tan 1"x1" ceramic FT	No asbestos detected
60-MA7-181				No asbestos detected
60-MA7-182				No asbestos detected
61-MA8-183	White grout around wall tile	N wall, W of door	Bldg 310 – RR 1E-158, 2E-107, 2E-108, 2E-139, & 2E-140, around ceramic wall tile	No asbestos detected
61-MA8-184				No asbestos detected
61-MA8-185				No asbestos detected
62-MG5-186	Tan mastic under wall tile	N wall, W of door	Bldg 310 – RR 1E-158, 2E-107, 2E-108, 2E-139, & 2E-140, under ceramic wall tile	No asbestos detected
62-MG5-187				No asbestos detected
62-MG5-188				No asbestos detected
63-SC5-189	Brown duct tape with tan mastic	RR 1E-152 – duct running along W wall	Bldg 310 – on ductwork above drop ceilings	No asbestos detected
63-SC5-190				No asbestos detected
63-SC5-191				No asbestos detected

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Sample Number	Description	Sample Location	Material Location	Results
64-SC5-192	Cream mastic/sealant on fiberglass duct insulation	RR 1E-152 – duct running N-S above DCT in middle	Bldg 310 – on fiberglass-wrapped ductwork above drop ceilings	<b>2.5% chrysotile asbestos</b>
64-SC5-193				<b>3.3% chrysotile asbestos</b>
64-SC5-194				<b>3.4% chrysotile asbestos</b>
65-WB1-195	White gypsum board, paper tape, & joint compound	RR 1E-152 – N wall, E of door	Bldg 310 walls & ceilings	No asbestos detected
65-WB1-196		RR 1E-158 – S wall, E of gypsum board ceiling, above DCT		No asbestos detected
65-WB1-197		2E-139 – NW corner ceiling		No asbestos detected
65-WB1-198		2E-108 – SW corner ceiling		No asbestos detected
65-WB1-199		RR 1E-158 – S wall, E of gypsum board ceiling, above DCT		No asbestos detected
66-MA8-200	Gray grout around FT	RR 9 – N side of door frame	Bldg 322 – RR 9 & RR 10 around red, tan, & cream 1"x1" ceramic FT	No asbestos detected
66-MA8-201				No asbestos detected
66-MA8-202				No asbestos detected
67-MA7-203	Gray mortar under FT	RR 9 – N side of door frame	Bldg 322 – RR 9 & RR 10 under red, tan, & cream 1"x1" ceramic FT	No asbestos detected
67-MA7-204				No asbestos detected
67-MA7-205				No asbestos detected
68-MA8-206	White grout around wall tile	RR 9 – E wall, N side of door frame	Bldg 322 – RR 9 & RR 10 around cream 4"x4" ceramic wall tile	No asbestos detected
68-MA8-207				No asbestos detected
68-MA8-208				No asbestos detected
69-MG5-209	Tan & green mastic under wall tile	RR 9 – E wall, N side of door frame	Bldg 322 – RR 9 & RR 10 under cream 4"x4" ceramic wall tile	No asbestos detected
69-MG5-210				No asbestos detected
69-MG5-211				No asbestos detected
70-CT3-212	White pin & long fissure 2'x2' DCT	RR 9 – 2' W of E wall, 3' S of N wall	Bldg 322 – RR 9, RR 10, & dressing area (10A)	No asbestos detected
70-CT3-213				No asbestos detected
70-CT3-214				No asbestos detected
71-FT2,MG2-215	Cream fleck 12"x12" VCT with black mastic	N changing section, N wall, 4' W of E wall	Bldg 322 – dressing area (10A)	No asbestos detected
71-FT2,MG2-216		S section, 1' S of N wall & 3' W of E wall		No asbestos detected
71-FT2,MG2-217		N section, 3' W of E wall & 1' N of S wall		No asbestos detected

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Sample Number	Description	Sample Location	Material Location	Results
72-FC3, MG3-218	Brown 4" VCB with cream mastic	SW corner	Bldg 322 – dressing area (10A)	No asbestos detected
72-FC3, MG3-219				No asbestos detected
72-FC3, MG3-220				No asbestos detected
73-WB1-221	White gypsum board, paper tape, & joint compound	RR 9 – S wall, 2' W of E wall	Bldg 322 – RR 9, RR 10, dressing area (10A), & N wall of RR 26	No asbestos detected
73-WB1-222		Dressing area – S section, N wall, at W end above DCT		No asbestos detected
73-WB1-223		RR 26 – N wall at W end		No asbestos detected
74-WB1-224	Green gypsum board, paper tape, & joint compound	RR 21 – E wall, N of door above DCT	Bldg 322 – RR 21 & E, S, & W walls of RR 26	No asbestos detected
74-WB1-225		RR 26 – W wall, 2' S of N wall		No asbestos detected
74-WB1-226		RR 21 – E wall, N of door above DCT		No asbestos detected
75-MA8-227	White grout around FT	RR 26 - W side of door frame	Bldg 322 – RR 21 & RR 26 around tan 2"x2" ceramic FT	No asbestos detected
75-MA8-228				No asbestos detected
75-MA8-229				No asbestos detected
76-MA7-230	White mortar under FT	RR 26 - W side of door frame	Bldg 322 – RR 21 & RR 26 under tan 2"x2" ceramic FT	No asbestos detected
76-MA7-231				No asbestos detected
76-MA7-232				No asbestos detected
77-MA8-233	White grout around wall tile	RR 26 - N wall, W of door	Bldg 322 – RR 21 & RR 26 around tan/pink 4"x4" ceramic FT	No asbestos detected
77-MA8-234				No asbestos detected
77-MA8-235				No asbestos detected
78-MG5-236	Tan mastic under wall tile	RR 26 - N wall, W of door	Bldg 322 – RR 21 & RR 26 under tan/pink 4"x4" ceramic FT	No asbestos detected
78-MG5-237				No asbestos detected
78-MG5-238				No asbestos detected
79-CT3-239	White pin & crater 2'x2' DCT	RR 26 - W wall, 5' S of N wall	Bldg 322 – RR 21 & RR 26	No asbestos detected
79-CT3-240		RR 26 - 5' S of N wall & 2' E of W wall		No asbestos detected
79-CT3-241		RR 26 - W wall, 5' S of N wall		No asbestos detected
80-SC5-242	Tan duct mastic	RR 26 – duct along S wall, 2' E of W wall	Bldg 322 – RR 9, RR 10, RR 21, RR 26, & dressing area on ductwork seams, above DCT	No asbestos detected
80-SC5-243		RR 21 – Duct above sink		No asbestos detected
80-SC5-244		RR 26 – duct along S wall, 2' E of W wall		No asbestos detected

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Sample Number	Description	Sample Location	Material Location	Results
81-SC5-245	Gray duct mastic	RR 26 – duct on S wall, 2' E of W wall	Bldg 322 – RR 21 & RR 26 on ductwork seams, above DCT	No asbestos detected
81-SC5-246		RR 21 – duct along N side		No asbestos detected
81-SC5-247		RR 26 – duct on S wall, 2' E of W wall		No asbestos detected
82-SC5-248	White duct mastic over silver duct tape	RR 21 – Duct in NW corner	Bldg 322 – RR 21 on fiberglass wrapped ductwork, above DCT	No asbestos detected
82-SC5-249				No asbestos detected
82-SC5-250				No asbestos detected
83-FP1-251	Gray spray-on fire proofing	RR 26 – SW corner	Bldg 322 – RR 21 & RR 26	No asbestos detected
83-FP1-252				No asbestos detected
83-FP1-253				No asbestos detected
84-FP5-254	Red fire-stop putty	S wall, 13' E of W wall	Bldg 330 – Corridor C1-7	No asbestos detected
84-FP5-255				No asbestos detected
84-FP5-256				No asbestos detected
85-FP1-257	Gray spray-on fire proofing	RR 1A-107 – W wall, 4' N of S wall	Bldg 330	No asbestos detected
85-FP1-258		RR 1A-108 – column N of sinks, above DCT		No asbestos detected
85-FP1-259		RR 1D-111 – beam above air vent duct		No asbestos detected
86-CP5-260	Off-white cementitious coating, troweled-on into metal lath	Top side of shower ceiling	Bldg 330 – RR 2C-126 top side of shower ceiling	No asbestos detected
86-CP5-261				No asbestos detected
86-CP5-262				No asbestos detected
87-CA5-263	White duct caulk	Duct above DCT over sink	Bldg 330 – RR 4A-109 at duct seam	No asbestos detected
87-CA5-264				No asbestos detected
87-CA5-265				No asbestos detected
88-CT4-266	White small & large pin 2'x4' DCT	HAC 1A-106 – E wall, 4' N of S wall	Bldg 330 – HAC 1A-106 drop ceiling	No asbestos detected
88-CT4-267				No asbestos detected
88-CT4-268				No asbestos detected
89-CT4-269	White pin & crater 2'x4' DCT	HAC 1A-106 – 2' E of middle NW corner	Bldg 330 – HAC 1A-106 drop ceiling	No asbestos detected
89-CT4-270				No asbestos detected
89-CT4-271				No asbestos detected



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Sample Number	Description	Sample Location	Material Location	Results
90-CT4-272	White textured pin & crater 2'x4' DCT molded like 1'x1' CT	RR 1C-115 – 1' W of E wall, 2' N of S wall	Bldg 330 – RR 1A-107, RR 1A-108, RR 3A-117, RR 6A-109, RR 7A-109, RR 8A-110, RR 9A-109, corridor C1-7, RR 1C-115, RR 1C-116, RR 2C-125, RR 2C-126, RR 1D-110 & RR 1D-111 drop ceiling	No asbestos detected
90-CT4-273		RR 1D-111 – W of ceiling air vent		No asbestos detected
90-CT4-274		Corridor C1-7 – 1' S of HAC door		No asbestos detected
91-CT4-275	White non-textured pin & crater 2'x4' DCT molded like 1'x1' CT	RR BC-103 – N wall, 3' W of E wall	Bldg 330 – RR 2A-124, RR 2A-125, & RR BC-103 drop ceiling	No asbestos detected
91-CT4-276		RR 2A-125 – N wall, 2' W of E wall		No asbestos detected
91-CT4-277		RR BC-103 – N wall, 3' W of E wall		No asbestos detected
92-CP5-278	Gray cementitious wall (troweled-on)	RR 2C-126 – W wall, above DCT & shower ceiling	Bldg 330 – RR 2C-126 shower walls (behind plastic shower wall inserts)	No asbestos detected
92-CP5-279				No asbestos detected
92-CP5-280				No asbestos detected
93-SC5-281	Tan sprinkler system pipe fitting mastic	RR 1D-111 – above DCT, pipe W of air duct vent	Bldg 330 – fire sprinkler pipe fittings	No asbestos detected
93-SC5-282		RR 2C-126 – above DCT, S of shower		No asbestos detected
93-SC5-283		RR 2A-125 – above DCT, sprinkler pipe		No asbestos detected
94-SC5-284	Tan duct mastic	RR 1A-108 – at vent over N bathroom stall	Bldg 330 – RR 2C-126, RR 1A-108, RR 1C-115 above DCT at duct seams	No asbestos detected
94-SC5-285		RR 2C-126 – 1' S of shower & 1' E of W wall		No asbestos detected
94-SC5-286		RR 1C-115 – above ceiling vent		No asbestos detected
95-SC5-287	Tan duct mastic over silver duct tape	RR 1D-111 – at ceiling vent above DCT	Bldg 330 – RR 1D-111 above DCT at duct seams	No asbestos detected
95-SC5-288				No asbestos detected
95-SC5-289				No asbestos detected
96-CT4-290	White pin & circle crater 2'x4' DCT	RR 5A-108 – 1' E of W wall & 2' S of N wall	Bldg 330 – RR 5A-108 drop ceiling	No asbestos detected
96-CT4-291				No asbestos detected
96-CT4-292				No asbestos detected
97-PM5-293	Brown foam pipe insulation & white/silver paper/foil	Above DCT, N side, middle	Bldg 330 – HAC 1A-106 cold water pipe	No asbestos detected
97-PM5-294				No asbestos detected
97-PM5-295				No asbestos detected

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Sample Number	Description	Sample Location	Material Location	Results
98-MG5-296	Yellow mastic under wall tile	RR 1D-110 – S wall of toilet stalls at E end	Bldg 330 - RR 1D-110 & RR BC-102 under cream ceramic wall tile	No asbestos detected
98-MG5-297		RR BC-102 – E wall behind door		No asbestos detected
98-MG5-298		RR 1D-110 – S wall of toilet stalls at E end		No asbestos detected
99-MA8-299	Gray grout around wall tile	RR BC-102 – E wall behind door	Bldg 330 - RR 1D-110 & RR BC-102 around cream ceramic wall tile	No asbestos detected
99-MA8-300		RR 1D-110 – S wall of toilet stalls at E end		No asbestos detected
99-MA8-301		RR BC-102 – E wall behind door		No asbestos detected
100-MA8-302	Brown grout around ceramic FT	RR 1D-111 – S wall of sink recess	Bldg 330 - RR 1D-110, RR 1D-111, & HAC 1A-106 around ceramic FT	No asbestos detected
100-MA8-303		HAC 1A-106 – at corner W of door		No asbestos detected
100-MA8-304		RR 1D-110 – at doorway		No asbestos detected
101-MA8-305	White grout around wall tile	S wall, 1' W of door	Bldg 330 – HAC 1A-106 around off-white 4"x4" ceramic wall tile	No asbestos detected
101-MA8-306				No asbestos detected
101-MA8-307				No asbestos detected
102-MG5-308	Tan mastic under wall tile	S wall, 1' W of door	Bldg 330 – HAC 1A-106 under off-white 4"x4" ceramic wall tile	No asbestos detected
102-MG5-309				No asbestos detected
102-MG5-310				No asbestos detected
103-MA7-311	White mortar under FT	HAC 1A-106 – at corner W of door	Bldg 330 – HAC 1A-106 under tan 1"x1" ceramic FT	No asbestos detected
103-MA7-312				No asbestos detected
103-MA7-313				No asbestos detected
104-MG5-314	Tan mastic around FT	HAC 1A-106 – at corner W of door	Bldg 330 – HAC 1A-106 between tan 1"x1" ceramic FT	No asbestos detected
104-MG5-315				No asbestos detected
104-MG5-316				No asbestos detected
105-MA8-317	Tan grout around wall tile	NE corner	Bldg 330 – RR 5A-108 around cream 5"x5" ceramic wall tile	No asbestos detected
105-MA8-318				No asbestos detected
105-MA8-319				No asbestos detected
106-MA7-320	White mortar under wall tile	NE corner	Bldg 330 – RR 5A-108 under cream 5"x5" ceramic wall tile	No asbestos detected
106-MA7-321				No asbestos detected
106-MA7-322				No asbestos detected

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Sample Number	Description	Sample Location	Material Location	Results
107-WB1-323	Gray gypsum board, paper tape, & joint compound	RR 6A-109 – W wall, above DCT, 3' S of N wall	Bldg 330 – RR 6A-109, RR 8A-110, & RR 9A-109 walls	No asbestos detected
107-WB1-324		RR 9A-109 – W wall, above DCT, 5' S of N wall		No asbestos detected
107-WB1-325		RR 6A-109 – W wall, above DCT, 3' S of N wall		No asbestos detected
108-WB1-326	White gypsum board, paper tape, & joint compound	Corridor C1-7 – S wall, 13' E of W wall	Bldg 330 walls	No asbestos detected
108-WB1-327		RR 2A-125 – N wall, 2' W of E wall, above DCT		No asbestos detected
108-WB1-328		BC-102 – NE corner		No asbestos detected
108-WB1-329		RR 1D-111 – entry N wall, above DCT, 2' W of E wall		No asbestos detected
108-WB1-330		RR 2C-126 – W wall at S shower edge		No asbestos detected
108-WB1-331		RR 4A-109 – W wall, above sink, above DCT		No asbestos detected
108-WB1-332		RR 5A-108 – NE corner behind wall tile		No asbestos detected
108-WB1-333		Corridor C1-7 – S wall, 10' E of W wall		No asbestos detected
109-WB5-334	Black paper backing on gypsum board	W wall, above DCT, 3' S of N wall	Bldg 330 – RR 7A-109	No asbestos detected
109-WB5-335				No asbestos detected
109-WB5-336				No asbestos detected
110-FT2,MG2-337	Tan & green fleck 12"x12" VCT with tan over black mastic	N wall, 1' E of W wall	Bldg 340 – RR 103/RR 104 hall access flooring	No asbestos detected
110-FT2,MG2-338				No asbestos detected
110-FT2,MG2-339				No asbestos detected
111-CT3-340	White pin & long fissure 2'x2' DCT	3' N of S wall & 6' W of E wall	Bldg 340 – RR 104 drop ceiling	No asbestos detected
111-CT3-341		2' S of N & 4' W of E wall		No asbestos detected
111-CT3-342		3' N of S wall & 6' W of E wall		No asbestos detected
112-CT3-343	White pin & scattered fissure 2'x2' DCT	2' N of S wall & 4' E of W wall	Bldg 340 – RR 103, RR 104, RR 103/RR 104 hall access, RR 192, & RR 193 drop ceiling	No asbestos detected
112-CT3-344				No asbestos detected
112-CT3-345				No asbestos detected
113-FC3,MG3-346	Tan 4" VCB with tan mastic	SW corner	Bldg 340 – 104 hall access	No asbestos detected
113-FC3,MG3-347				No asbestos detected
113-FC3,MG3-348				No asbestos detected

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Sample Number	Description	Sample Location	Material Location	Results
114-WB1-349	White gypsum board, paper tape, & joint compound	RR 103 – E wall, NE corner	Bldg 340 – RR 103, RR 104, RR 103/RR 104 hall access, RR 192, & RR 193 walls	No asbestos detected
114-WB1-350		RR 104 – SE corner above sink & DCT		No asbestos detected
114-WB1-351		RR 103 – E wall, NE corner		No asbestos detected
115-MA8-352	Gray grout around FT	RR 104 – E of door frame	Bldg 340 – RR 103, RR 104, RR 192, & RR 193 around gray 2"x2" ceramic FT	No asbestos detected
115-MA8-353				No asbestos detected
115-MA8-354				No asbestos detected
116-MA7-355	Gray mortar under FT	RR 104 – E of door frame	Bldg 340 – RR 103, RR 104, RR 192, & RR 193 under gray 2"x2" ceramic FT	No asbestos detected
116-MA7-356				No asbestos detected
116-MA7-357				No asbestos detected
117-MA8-358	White grout around wall tile	S wall, E of door	Bldg 340 – RR 103, RR 104, RR 192, & RR 193 around white 4"x4" ceramic wall tile	No asbestos detected
117-MA8-359				No asbestos detected
117-MA8-360				No asbestos detected
118-MG5-361	White mastic under wall tile	S wall, E of door	Bldg 340 – RR 103, RR 104, RR 192, & RR 193 under white 4"x4" ceramic wall tile	No asbestos detected
118-MG5-362				No asbestos detected
118-MG5-363				No asbestos detected

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**APPENDIX B**

**ANALYTICALLY-CONFIRMED  
ASBESTOS-CONTAINING MATERIALS**

**Limited Asbestos Survey**

Renovate Facility Restrooms 552-13-203 ■ Dayton VAMC

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**ANALYTICALLY-CONFIRMED ASBESTOS-CONTAINING MATERIALS****Project: Renovate Facility Restrooms (VA Project No. 552-13-203)****Dayton, V.A. Medical Center - 4100 W. 3<sup>rd</sup> Street, Dayton, Ohio**

SAMPLE # (S)	DESCRIPTION	MATERIAL LOCATION(S)	PERCENT & TYPE ASBESTOS	NESHAP CLASSIFICATION	CONDITION	TOTAL ESTIMATED QUANTITY
07-PI9-019, 020, 021	Off-white cloth-wrapped white cementitious pipe insulation (including fittings)	Building 126, Restroom 104	20% chrysotile asbestos and 10% crocidolite asbestos	RACM	Good	~20 linear feet
14-MA8-41; 15-MA7-43, 44, 45	Black fibrous mortar under 1"x1" blue ceramic floor tile	Building 128, Restroom 120	20% chrysotile	Category II non-friable	Good	~250 square feet
40-MA7-120, 121, 122; 41-MA7-123, 124, 125	Gray mortar under 1"x1" peach and green ceramic floor tile, and under 1"x1" blue and cream ceramic floor tile	Building 307, Restrooms 002, 003, 102, and 103	Trace (<1%) chrysotile	Not classified under NESHAP (<1% asbestos); however, still regulated by OSHA	Good	~480 total square feet of floor mortar
44-SC5-132, 133, 134	White mastic/sealant on fiberglass pipe insulation	Building 307, Restrooms 002, 003, 102, and 103	0.25% chrysotile	Not classified under NESHAP (<1% asbestos); however, still regulated by OSHA	Good	~192 total linear feet of fiberglass insulation with the white mastic/sealant
45-MG-135, 136, 137; 47-WB1-141, 142, 143; 48-WB1-144, 145, 146	Joint compound (drywall system component)	Building 307, walls in restrooms 002, 003, 102, and 103	2.3% chrysotile (joint compound); trace (<1%) composite analysis with other drywall components	Not classified under NESHAP (<1% asbestos by composite); however, still regulated under OSHA and ODH	Good	~2,100 total square feet of drywall with joint compound at seams/nail heads, etc.
49-FT2,M2-147, 149; 50-FT2,MG2-150, 151, 152	Black mastic under non-ACM 12"x12" green speckled and tan/green speck floor tile	Building 310, currently a hallway to women's restroom 1E-158 (to become storage room 1E-158B)	0.5% chrysotile	Not classified under NESHAP (<1% asbestos); however, still regulated by OSHA	Good	~70 square feet



**Limited Asbestos Survey**

Renovate Facility Restrooms 552-13-203 ■ Dayton VAMC

January 14, 2013 ■ Terracon Project No. N1127261



SAMPLE # (S)	DESCRIPTION	MATERIAL LOCATION(S)	PERCENT & TYPE ASBESTOS	NESHAP CLASS-IFICATION	CONDITION	TOTAL ESTIMATED QUANTITY
64-SC5-192, 193, 194	Cream mastic/sealant on fiberglass duct insulation	Bldg 310, on fiberglass-wrapped ductwork above drop ceilings in restrooms 1E-158, 1E-158A, 2E-107, 2E-108, 2E-139, 2E-140, and storage 1E-158B (current hall to women's restroom)	3.4% chrysotile	Category II non-friable	Good	~120 total square feet of mastic/sealant

**\*Estimated quantities** are based on a cursory field evaluation, and actual quantities may vary significantly, especially if asbestos-containing materials are present in hidden and/or inaccessible areas not evaluated as part of this limited survey.

The materials listed in this table have been sampled and determined to contain asbestos. When disturbed, various federal, state and local regulations may apply. These materials should be monitored for damage over time and repaired as necessary by appropriately trained personnel. Removal may be necessary before renovations and in most cases before a demolition. See Appendix A for a summary of samples collected. See Appendix C for detailed analytical results.

**Limited Asbestos Survey**

Renovate Facility Restrooms 552-13-203 ■ Dayton VAMC  
January 14, 2013 ■ Terracon Project No. N1127261



**APPENDIX C**

**ASBESTOS LABORATORY ANALYTICAL DATA**

# CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877381	<b>Description / Location:</b> Lt.Blue Ceramic Floor Tile; 1x1
<b>Client No.:</b> 01-MA8-001	Bldg 120-Restroom 101; NW Corner
<u>% Asbestos</u>	<u>Type</u>
None Detected	None Detected
<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected
<u>% Non-Fibrous Material</u>	
	100

<b>Lab No.:</b> 4877381	<b>Description / Location:</b> Grey Cementitious	<b>Layer No.:</b> 2
<b>Client No.:</b> 01-MA8-001	Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	
None Detected	None Detected	
<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	
Trace	Cellulose	
<u>% Non-Fibrous Material</u>		100

<b>Lab No.:</b> 4877381	<b>Description / Location:</b> Brown Mastic	<b>Layer No.:</b> 3
<b>Client No.:</b> 01-MA8-001	Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	
None Detected	None Detected	
<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	
None Detected	None Detected	
<u>% Non-Fibrous Material</u>		100

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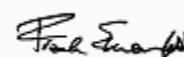
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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** S. Clay

**Approved By:**



**Date:** 12/31/2012

Frank E. Ehrenfeld, III  
Laboratory Director



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**Report Date:** 12/31/2012  
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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877382	<b>Description / Location:</b>	Lt.Blue Ceramic Floor Tile; 1x1	
<b>Client No.:</b>	01-MA8-002		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877382	<b>Description / Location:</b>	Grey Cementitious	<b>Layer No.:</b>	2
<b>Client No.:</b>	01-MA8-002		Bldg 120-Restroom 101; NW Corner		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877382	<b>Description / Location:</b>	Brown Mastic	<b>Layer No.:</b>	3
<b>Client No.:</b>	01-MA8-002		Bldg 120-Restroom 101; NW Corner		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** S. Clay

**Date:** 12/31/2012



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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877383	<b>Description / Location:</b>	Lt.Blue Ceramic Floor Tile; 1x1	
<b>Client No.:</b>	01-MA8-003		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877383	<b>Description / Location:</b>	Grey Cementitious	<b>Layer No.:</b> 2
<b>Client No.:</b>	01-MA8-003		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877383	<b>Description / Location:</b>	Brown Mastic	<b>Layer No.:</b> 3
<b>Client No.:</b>	01-MA8-003		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877384	<b>Description / Location:</b>	Grey Cementitious; Under 1x1 Ceramic FT	
<b>Client No.:</b>	02-MA7-004		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** S. Clay

**Date:** 12/31/2012



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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877385	<b>Description / Location:</b>	Grey Cementitious; Under 1x1 Ceramic FT	
<b>Client No.:</b>	02-MA7-005		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877386	<b>Description / Location:</b>	Grey Cementitious; Under 1x1 Ceramic FT	
<b>Client No.:</b>	02-MA7-006		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877387	<b>Description / Location:</b>	White Grout; Around Ceramic Wall Tile	
<b>Client No.:</b>	03-MA8-007		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877388	<b>Description / Location:</b>	White Grout; Around Ceramic Wall Tile	
<b>Client No.:</b>	03-MA8-008		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** S. Clay

**Date:** 12/31/2012



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**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877389	<b>Description / Location:</b>	White Grout; Around Ceramic Wall Tile	
<b>Client No.:</b>	03-MA8-009		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877390	<b>Description / Location:</b>	Tan Mastic; Under Ceramic Wall Tile	
<b>Client No.:</b>	04-MA7-010		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877390	<b>Description / Location:</b>	Off-White Plaster; Under Ceramic Wall Tile	<b>Layer No.:</b> 2
<b>Client No.:</b>	04-MA7-010		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Date:** 12/31/2012





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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877391	<b>Description / Location:</b>	Tan Mastic; Under Ceramic Wall Tile	
<b>Client No.:</b>	04-MA7-011		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877391	<b>Description / Location:</b>	Off-White Plaster; Under Ceramic Wall Tile	<b>Layer No.:</b> 2
<b>Client No.:</b>	04-MA7-011		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877392	<b>Description / Location:</b>	Tan Mastic; Under Ceramic Wall Tile	
<b>Client No.:</b>	04-MA7-012		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877392	<b>Description / Location:</b>	Off-White Plaster; Under Ceramic Wall Tile	<b>Layer No.:</b> 2
<b>Client No.:</b>	04-MA7-012		Bldg 120-Restroom 101; NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Date:** 12/31/2012



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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877393	<b>Description / Location:</b>	Tan Floor Tile; 12x12	
<b>Client No.:</b>	05-FT2,MG2-013		Bldg120-FoyerFloor;7'SOfNWWall&6'EOFWWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877393	<b>Description / Location:</b>	Black Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	05-FT2,MG2-013		Bldg120-FoyerFloor;7'SOfNWWall&6'EOFWWall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	2	Cellulose	98	

<b>Lab No.:</b>	4877393	<b>Description / Location:</b>	Brown Fiberboard	<b>Layer No.:</b>	3
<b>Client No.:</b>	05-FT2,MG2-013		Bldg120-FoyerFloor;7'SOfNWWall&6'EOFWWall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	95	Cellulose	5	

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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877394	<b>Description / Location:</b>	Tan Floor Tile; 12x12	
<b>Client No.:</b>	05-FT2, MG2-014		Bldg 120-Foyer Floor; 7'S of NW Wall & 6'E of WW Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877394	<b>Description / Location:</b>	Black Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	05-FT2, MG2-014		Bldg 120-Foyer Floor; 7'S of NW Wall & 6'E of WW Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

<b>Lab No.:</b>	4877394	<b>Description / Location:</b>	Brown Fiberboard	<b>Layer No.:</b> 3
<b>Client No.:</b>	05-FT2, MG2-014		Bldg 120-Foyer Floor; 7'S of NW Wall & 6'E of WW Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Cellulose	5

#### Accreditation

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

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#### Analytical Method:

EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

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**Analysis Performed By:** S. Clay

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877395	<b>Description / Location:</b>	Tan Floor Tile; 12x12	
<b>Client No.:</b>	05-FT2, MG2-015		Bldg 120-Foyer Floor; 7'S of NW Wall & 6'E of WW Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877395	<b>Description / Location:</b>	Black Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	05-FT2, MG2-015		Bldg 120-Foyer Floor; 7'S of NW Wall & 6'E of WW Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	2	Cellulose	98	

<b>Lab No.:</b>	4877395	<b>Description / Location:</b>	Brown Fiberboard	<b>Layer No.:</b>	3
<b>Client No.:</b>	05-FT2, MG2-015		Bldg 120-Foyer Floor; 7'S of NW Wall & 6'E of WW Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	95	Cellulose	5	

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#### Analytical Method:

EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877396	<b>Description / Location:</b>	Grey Plaster	
<b>Client No.:</b>	06-HP1,HP2-016		Bldg 120-RR 101, Ceiling Above Toilet	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95

<b>Lab No.:</b>	4877396	<b>Description / Location:</b>	Tan Joint Compound		<b>Layer No.:</b>	2
<b>Client No.:</b>	06-HP1,HP2-016		Bldg 120-RR 101, Ceiling Above Toilet			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>		
None Detected	None Detected	None Detected	None Detected	100		

<b>Lab No.:</b>	4877397	<b>Description / Location:</b>	Grey Plaster			
<b>Client No.:</b>	06-HP1,HP2-017		Bldg 120-Foyer E Wall, N Of Main Doors			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>		
None Detected	None Detected	1	Cellulose	99		

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EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877398	<b>Description / Location:</b>	Grey Plaster	
<b>Client No.:</b>	06-HP1,HP2-018		Bldg 120-RR 101, W Wall S Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Cellulose	100

<b>Lab No.:</b>	4877398	<b>Description / Location:</b>	Off-White Plaster	<b>Layer No.:</b> 2
<b>Client No.:</b>	06-HP1,HP2-018		Bldg 120-RR 101, W Wall S Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877399	<b>Description / Location:</b>	White Insulation	
<b>Client No.:</b>	07-P11-019		Bldg 126-RR104,RadiatorHotWaterPipe;SECnr	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
20	Chrysotile	None Detected	None Detected	70
10	Crocidolite			

<b>Lab No.:</b>	4877400	<b>Description / Location:</b>	White Insulation	
<b>Client No.:</b>	07-P11-020		Bldg 126-RR104,RadiatorHotWaterPipe;SECnr	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
20	Chrysotile	10	Cellulose	60
10	Crocidolite			

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877401	<b>Description / Location:</b>	White Insulation	
<b>Client No.:</b>	07-PI11-021		Bldg126-RR104,RadiatorHotWaterPipe;SECnr	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
20	Chrysotile	5	Cellulose	65
10	Crocidolite			

<b>Lab No.:</b>	4877402	<b>Description / Location:</b>	Off-White/Yellow Caulk	
<b>Client No.:</b>	08-SC5-022		Bldg126-RR104, Pipe End S Of Sink	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	25	Fibrous Glass	75

<b>Lab No.:</b>	4877403	<b>Description / Location:</b>	Off-White/Yellow Caulk	
<b>Client No.:</b>	08-SC5-023		Bldg126-RR104, Pipe End N Of Sink	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Fibrous Glass	50

<b>Lab No.:</b>	4877404	<b>Description / Location:</b>	Off-White/Yellow Caulk	
<b>Client No.:</b>	08-SC5-024		Bldg126-RR104, Pipe End S Of Sink	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Fibrous Glass	70

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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611 Lunken Park Drive  
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**Report Date:** 12/31/2012  
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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877405	<b>Description / Location:</b> White Plaster			
<b>Client No.:</b> 09-HP3-025	Bldg 126-RR 104 Walls; W Wall Above Sink			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877405	<b>Description / Location:</b> Off-White Texture	<b>Layer No.:</b> 2		
<b>Client No.:</b> 09-HP3-025	Bldg 126-RR 104 Walls; W Wall Above Sink			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877405	<b>Description / Location:</b> Tan Joint Compound	<b>Layer No.:</b> 3		
<b>Client No.:</b> 09-HP3-025	Bldg 126-RR 104 Walls; W Wall Above Sink			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation** NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877406	<b>Description / Location:</b> Grey Cementitious			
<b>Client No.:</b> 09-HP3-026	Bldg 126-RR 104 Walls; W Wall Above Sink			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877406	<b>Description / Location:</b> White Plaster	<b>Layer No.:</b> 2		
<b>Client No.:</b> 09-HP3-026	Bldg 126-RR 104 Walls; W Wall Above Sink			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877406	<b>Description / Location:</b> Off-White Texture	<b>Layer No.:</b> 3		
<b>Client No.:</b> 09-HP3-026	Bldg 126-RR 104 Walls; W Wall Above Sink			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

#### Accreditation

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#### Comments:

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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877407	<b>Description / Location:</b>	White Plaster	
<b>Client No.:</b>	09-HP3-027		Bldg 126-RR 104 Walls; W Wall Above Sink	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877407	<b>Description / Location:</b>	Off-White Texture	<b>Layer No.:</b> 2
<b>Client No.:</b>	09-HP3-027		Bldg 126-RR 104 Walls; W Wall Above Sink	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877408	<b>Description / Location:</b>	Grey Cementitious	
<b>Client No.:</b>	10-MA5-028		Bldg 126-Warehouse Side Of RR 104 Walls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877408	<b>Description / Location:</b>	Black Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	10-MA5-028		Bldg 126-Warehouse Side Of RR 104 Walls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

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**Analytical Method:**

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**Comments:**

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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877409	<b>Description / Location:</b>	Grey Cementitious	
<b>Client No.:</b>	10-MA5-029		Bldg 126-Warehouse Side Of RR 104 Walls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877410	<b>Description / Location:</b>	Grey Cementitious	
<b>Client No.:</b>	10-MA5-030		Bldg 126-Warehouse Side Of RR 104 Walls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877411	<b>Description / Location:</b>	Brown/Black Cork/Tar	
<b>Client No.:</b>	11-MS5-031		Bldg 126-Between Walls Of RR 104 & Warehouse	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877412	<b>Description / Location:</b>	Brown/Black Cork/Tar	
<b>Client No.:</b>	11-MS5-032		Bldg 126-Between Walls Of RR 104 & Warehouse	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** S. Clay

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877413	<b>Description / Location:</b>	Brown/Black Cork/Tar	
<b>Client No.:</b>	11-MS5-033		Bldg126-BetweenWallsOf RR104 & Warehouse	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877414	<b>Description / Location:</b>	Tan Mastic	
<b>Client No.:</b>	12-MG5-034		Bldg128-RR120 W Wall S Of Sinks	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877414	<b>Description / Location:</b>	Off-White Plaster	<b>Layer No.:</b> 2
<b>Client No.:</b>	12-MG5-034		Bldg128-RR120 W Wall S Of Sinks	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation****NIST-NVLAP No. 101165-0****NY-DOH No. 11021****AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877415	<b>Description / Location:</b>	Tan Mastic	
<b>Client No.:</b>	12-MG5-035		Bldg128-RR120 W Wall S Of Sinks	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877415	<b>Description / Location:</b>	Off-White Plaster	<b>Layer No.:</b> 2
<b>Client No.:</b>	12-MG5-035		Bldg128-RR120 W Wall S Of Sinks	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877416	<b>Description / Location:</b>	Tan Mastic	
<b>Client No.:</b>	12-MG5-036		Bldg128-RR120 W Wall S Of Sinks	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877416	<b>Description / Location:</b>	Off-White Plaster	<b>Layer No.:</b> 2
<b>Client No.:</b>	12-MG5-036		Bldg128-RR120 W Wall S Of Sinks	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** S. Clay

**Date:** 12/31/2012



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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877417	<b>Description / Location:</b>	Off-White Cementitious	
<b>Client No.:</b>	13-MA8-037		Bldg128-RR120 W Wall S Of Sinks	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877418	<b>Description / Location:</b>	Off-White Cementitious	
<b>Client No.:</b>	13-MA8-038		Bldg128-RR120 W Wall S Of Sinks	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877419	<b>Description / Location:</b>	Tan Mastic	
<b>Client No.:</b>	13-MA8-039		Bldg128-RR120 W Wall S Of Sinks	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Cellulose	100

<b>Lab No.:</b>	4877419	<b>Description / Location:</b>	Off-White Cementitious	<b>Layer No.:</b> 2
<b>Client No.:</b>	13-MA8-039		Bldg128-RR120 W Wall S Of Sinks	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Date:** 12/31/2012





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Cincinnati OH 45226

**Report Date:** 12/31/2012  
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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877420	<b>Description / Location:</b>	Dk.Grey Cementitious	
<b>Client No.:</b>	14-MA8-040		Bldg128-RR120 Floor E Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877421	<b>Description / Location:</b>	Dk.Grey Cementitious	
<b>Client No.:</b>	14-MA8-041		Bldg128-RR120 E Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877421	<b>Description / Location:</b>	Lt.Blue Ceramic Floor Tile; 1x1	<b>Layer No.:</b> 2
<b>Client No.:</b>	14-MA8-041		Bldg128-RR120 E Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877421	<b>Description / Location:</b>	Black Fibrous	<b>Layer No.:</b> 3
<b>Client No.:</b>	14-MA8-041		Bldg128-RR120 E Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

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611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877422	<b>Description / Location:</b>	Dk.Grey Cementitious		
<b>Client No.:</b>	14-MA8-042		Bldg128-RR120 E Side Doorframe		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	Trace	Cellulose	100	

<b>Lab No.:</b>	4877422	<b>Description / Location:</b>	Lt.Blue Ceramic Floor Tile; 1x1		<b>Layer No.:</b>	2
<b>Client No.:</b>	14-MA8-042		Bldg128-RR120 E Side Doorframe			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>		
None Detected	None Detected	None Detected	None Detected	100		

#### Accreditation

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#### Analytical Method:

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**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:** 12/31/2012



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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877423	<b>Description / Location:</b> Black Fibrous			
<b>Client No.:</b> 15-MA7-043	Bldg128-RR120 E Side Doorframe			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
20	Chrysotile	None Detected	None Detected	80

<b>Lab No.:</b> 4877423	<b>Description / Location:</b> Brown Mastic	<b>Layer No.:</b> 2		
<b>Client No.:</b> 15-MA7-043	Bldg128-RR120 E Side Doorframe			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877423	<b>Description / Location:</b> Dk.Grey Cementitious	<b>Layer No.:</b> 3		
<b>Client No.:</b> 15-MA7-043	Bldg128-RR120 E Side Doorframe			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	None Detected	None Detected	100

<b>Lab No.:</b> 4877424	<b>Description / Location:</b> Black Fibrous			
<b>Client No.:</b> 15-MA7-044	Bldg128-RR120 E Side Doorframe			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
20	Chrysotile	None Detected	None Detected	80

**Accreditation** NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** S. Clay

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

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	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877425	<b>Description / Location:</b>	Black Fibrous	
<b>Client No.:</b>	15-MA7-045		Bldg128-RR120 E Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
20	Chrysotile	None Detected	None Detected	80

<b>Lab No.:</b>	4877425	<b>Description / Location:</b>	Brown Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	15-MA7-045		Bldg128-RR120 E Side Doorframe		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	2	Cellulose	98	

<b>Lab No.:</b>	4877426	<b>Description / Location:</b>	Grey/Off-White Plaster	
<b>Client No.:</b>	16-HP1-046		Bldg128-RR120 N Wall, Shower Room	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877426	<b>Description / Location:</b>	Yellow Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	16-HP1-046		Bldg128-RR120 N Wall, Shower Room		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

**Accreditation****NIST-NVLAP No. 101165-0****NY-DOH No. 11021****AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

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**Comments:**

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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877427	<b>Description / Location:</b>	Grey/Off-White Plaster	
<b>Client No.:</b>	16-HP1-047		Bldg128-RR120 S Wall, Bottom Window	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Cellulose	100

<b>Lab No.:</b>	4877427	<b>Description / Location:</b>	Yellow Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	16-HP1-047		Bldg128-RR120 S Wall, Bottom Window		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877428	<b>Description / Location:</b>	Grey Plaster	
<b>Client No.:</b>	16-HP1-048		Bldg128-RR120 Shower N Wall Above EStall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877429	<b>Description / Location:</b>	White/Tan Ceiling Tile; 2x4	
<b>Client No.:</b>	17-CT4-049		Bldg 128-RR 120 Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	70	Cellulose	30

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** V. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877430	<b>Description / Location:</b>	White/Tan Ceiling Tile; 2x4	
<b>Client No.:</b>	17-CT4-050		Bldg 128-RR 120 Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	70	Cellulose	30

<b>Lab No.:</b>	4877431	<b>Description / Location:</b>	White/Tan Ceiling Tile; 2x4	
<b>Client No.:</b>	17-CT4-051		Bldg 128-RR 120 Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	70	Cellulose	30

<b>Lab No.:</b>	4877432	<b>Description / Location:</b>	Off-White Floor Tile; 12x12	
<b>Client No.:</b>	18-FT2,MG2-052		Bldg 131-RR 104 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877432	<b>Description / Location:</b>	Tan/Black Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	18-FT2,MG2-052		Bldg 131-RR 104 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** V. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877433	<b>Description / Location:</b>	Off-White Floor Tile; 12x12	
<b>Client No.:</b>	18-FT2,MG2-053		Bldg 131-RR 104 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877433	<b>Description / Location:</b>	Tan/Black Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	18-FT2,MG2-053		Bldg 131-RR 104 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877434	<b>Description / Location:</b>	Off-White Floor Tile; 12x12	
<b>Client No.:</b>	18-FT2,MG2-054		Bldg 131-RR 104 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877434	<b>Description / Location:</b>	Tan/Black Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	18-FT2,MG2-054		Bldg 131-RR 104 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** V. Smith

**Date:** 12/31/2012





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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877435	<b>Description / Location:</b>	Brown Rubber	
<b>Client No.:</b>	19-FC3,MG3-055		Bldg 131-RR 104 Wall Cove Base	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877435	<b>Description / Location:</b>	Off-White/Black Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	19-FC3,MG3-055		Bldg 131-RR 104 Wall Cove Base	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877436	<b>Description / Location:</b>	Brown Rubber	
<b>Client No.:</b>	19-FC3,MG3-056		Bldg 131-RR 104 Wall Cove Base	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877436	<b>Description / Location:</b>	Off-White/Black Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	19-FC3,MG3-056		Bldg 131-RR 104 Wall Cove Base	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Accreditation</b>	<b>NIST-NVLAP No. 101165-0</b>	<b>NY-DOH No. 11021</b>	<b>AIHA-LAP, LLC No. 100188</b>
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<b>Analytical Method:</b>	EPA 600/R-93/116, by Polarized Light Microscopy
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**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877437	<b>Description / Location:</b>	Brown Rubber	
<b>Client No.:</b>	19-FC3,MG3-057		Bldg 131-RR 104 Wall Cove Base	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877437	<b>Description / Location:</b>	Off-White/Black Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	19-FC3,MG3-057		Bldg 131-RR 104 Wall Cove Base		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877438	<b>Description / Location:</b>	Grey Floor Material	
<b>Client No.:</b>	20-MS5-058		Bldg 220-Toilet 2 (Handicap RR) NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877438	<b>Description / Location:</b>	White Leveling Compound/Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	20-MS5-058		Bldg 220-Toilet 2 (Handicap RR) NEC		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

**Accreditation****NIST-NVLAP No. 101165-0****NY-DOH No. 11021****AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** V. Smith**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877439	<b>Description / Location:</b>	Grey Floor Material	
<b>Client No.:</b>	20-MS5-059		Bldg 220-Toilet 2 (Handicap RR) NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877439	<b>Description / Location:</b>	White Leveling Compound/Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	20-MS5-059		Bldg 220-Toilet 2 (Handicap RR) NEC		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877440	<b>Description / Location:</b>	Grey Floor Material	
<b>Client No.:</b>	20-MS5-060		Bldg 220-Toilet 2 (Handicap RR) NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877441	<b>Description / Location:</b>	Light Tan Mastic	
<b>Client No.:</b>	21-MG5-061		Bldg 220-Toilet 2 Wall Near Shower	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Accreditation</b>	<b>NIST-NVLAP No. 101165-0</b>	<b>NY-DOH No. 11021</b>	<b>AIHA-LAP, LLC No. 100188</b>
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<b>Analytical Method:</b>	EPA 600/R-93/116, by Polarized Light Microscopy
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**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** V. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877442	<b>Description / Location:</b>	Light Tan Mastic	
<b>Client No.:</b>	21-MG5-062		Bldg 220-Toilet 2 Wall Near Shower	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877443	<b>Description / Location:</b>	Light Tan Mastic	
<b>Client No.:</b>	21-MG5-063		Bldg 220-Toilet 2 Wall Near Shower	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877444	<b>Description / Location:</b>	White Non-Fibrous	
<b>Client No.:</b>	22-MA8-064		Bldg 220-Toilet 2 Wall Near Shower	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877445	<b>Description / Location:</b>	White Non-Fibrous	
<b>Client No.:</b>	22-MA8-065		Bldg 220-Toilet 2 Wall Near Shower	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** V. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877446	<b>Description / Location:</b>	White Non-Fibrous	
<b>Client No.:</b>	22-MA8-066		Bldg 220-Toilet 2 Wall Near Shower	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877447	<b>Description / Location:</b>	White/Off-White Ceiling Tile	
<b>Client No.:</b>	23-CT4-067		Bldg 220-Toilet 1 (Staff RR) & Toilet 2	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Cellulose	30
		10	Mineral Wool	

<b>Lab No.:</b>	4877448	<b>Description / Location:</b>	White/Tan Ceiling Tile	
<b>Client No.:</b>	23-CT4-068		Bldg 220-Toilet 1 (Staff RR) & Toilet 2	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Cellulose	30
		10	Mineral Wool	

<b>Lab No.:</b>	4877449	<b>Description / Location:</b>	White/Off-White Ceiling Tile	
<b>Client No.:</b>	23-CT4-069		Bldg 220-Toilet 1 (Staff RR) & Toilet 2	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Cellulose	30
		10	Mineral Wool	

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** V. Smith

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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877450	<b>Description / Location:</b>	White Plaster	
<b>Client No.:</b>	24-HP1,HP2-070		Bldg220-Toilet2-Clg,SSideOfShowerAbvDCT	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877450	<b>Description / Location:</b>	Grey Plaster	<b>Layer No.:</b> 2
<b>Client No.:</b>	24-HP1,HP2-070		Bldg220-Toilet2-Clg,SSideOfShowerAbvDCT	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877450	<b>Description / Location:</b>	Tan Plaster	<b>Layer No.:</b> 3
<b>Client No.:</b>	24-HP1,HP2-070		Bldg220-Toilet2-Clg,SSideOfShowerAbvDCT	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

<b>Lab No.:</b>	4877450D	<b>Description / Location:</b>	White/Brown Fibrous	
<b>Client No.:</b>	24-HP1,HP2-070		Bldg220-Toilet2-Clg,SSideOfShowerAbvDCT	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	70	Cellulose	30

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** V. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877451	<b>Description / Location:</b>	White Plaster	
<b>Client No.:</b>	24-HP1,HP2-071		Bldg 220-Toilet 1-N Wall Over Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877451	<b>Description / Location:</b>	Tan Plaster	<b>Layer No.:</b>	2
<b>Client No.:</b>	24-HP1,HP2-071		Bldg 220-Toilet 1-N Wall Over Door		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	Trace	Hair	100	

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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877452	<b>Description / Location:</b>	White Plaster	
<b>Client No.:</b>	24-HP1,HP2-072		Bldg220-Toilet2-Clg,SSideOfShowerAbvDCT	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877452	<b>Description / Location:</b>	Grey Plaster	<b>Layer No.:</b> 2
<b>Client No.:</b>	24-HP1,HP2-072		Bldg220-Toilet2-Clg,SSideOfShowerAbvDCT	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877452	<b>Description / Location:</b>	Tan Plaster	<b>Layer No.:</b> 3
<b>Client No.:</b>	24-HP1,HP2-072		Bldg220-Toilet2-Clg,SSideOfShowerAbvDCT	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Hair	99

<b>Lab No.:</b>	4877452D	<b>Description / Location:</b>	White/Brown Fibrous	
<b>Client No.:</b>	24-HP1,HP2-072		Bldg220-Toilet2-Clg,SSideOfShowerAbvDCT	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	70	Cellulose	30

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**Analytical Method:**

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**Comments:**

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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877453	<b>Description / Location:</b>	Brown/White Sheetrock	
<b>Client No.:</b>	25-WB1-073		Bldg 220-Toilet 1 Wall E End	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

<b>Lab No.:</b>	4877454	<b>Description / Location:</b>	Brown/White Sheetrock	
<b>Client No.:</b>	25-WB1-074		Bldg 220-Toilet 1 N Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

<b>Lab No.:</b>	4877454	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b> 2
<b>Client No.:</b>	25-WB1-074		Bldg 220-Toilet 1 N Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877454	<b>Description / Location:</b>	Composite	<b>Layer No.:</b> 3
<b>Client No.:</b>	25-WB1-074		Bldg 220-Toilet 1 N Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Cellulose	40

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**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Date:** 12/31/2012



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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877455	<b>Description / Location:</b>	Brown/White Sheetrock	
<b>Client No.:</b>	25-WB1-075		Bldg 220-Toilet 2 Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Cellulose	97

<b>Lab No.:</b>	4877456	<b>Description / Location:</b>	Tan Vinyl Sheet Flooring	
<b>Client No.:</b>	26-FC1-076		Bldg 220-Toilet 1 NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	25	Cellulose	75

<b>Lab No.:</b>	4877457	<b>Description / Location:</b>	Tan Vinyl Sheet Flooring	
<b>Client No.:</b>	26-FC1-077		Bldg 220-Toilet 1 NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	25	Cellulose	75

<b>Lab No.:</b>	4877457	<b>Description / Location:</b>	Tan Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	26-FC1-077		Bldg 220-Toilet 1 NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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**Comments:**

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**Date:** 12/31/2012



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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877458	<b>Description / Location:</b>	Tan Vinyl Sheet Flooring	
<b>Client No.:</b>	26-FC1-078		Bldg 220-Toilet 1 NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	25	Cellulose	75

<b>Lab No.:</b>	4877458	<b>Description / Location:</b>	Tan Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	26-FC1-078		Bldg 220-Toilet 1 NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

#### Accreditation

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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877459	<b>Description / Location:</b> Brown Rubber			
<b>Client No.:</b> 27-FC3,MG3-079	Bldg 220-Toilet 1 Cove Base NEC			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877459	<b>Description / Location:</b> Off-White Mastic	<b>Layer No.:</b> 2		
<b>Client No.:</b> 27-FC3,MG3-079	Bldg 220-Toilet 1 Cove Base NEC			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877459	<b>Description / Location:</b> Brown Mastic	<b>Layer No.:</b> 3		
<b>Client No.:</b> 27-FC3,MG3-079	Bldg 220-Toilet 1 Cove Base NEC			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877460	<b>Description / Location:</b>	Brown Rubber	
<b>Client No.:</b>	27-FC3,MG3-080		Bldg 220-Toilet 1 Cove Base NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877460	<b>Description / Location:</b>	Off-White Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	27-FC3,MG3-080		Bldg 220-Toilet 1 Cove Base NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877460	<b>Description / Location:</b>	Brown Mastic	<b>Layer No.:</b> 3
<b>Client No.:</b>	27-FC3,MG3-080		Bldg 220-Toilet 1 Cove Base NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877461	<b>Description / Location:</b>	Brown Rubber	
<b>Client No.:</b>	27-FC3,MG3-081		Bldg 220-Toilet 1 Cove Base NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877461	<b>Description / Location:</b>	White/Off-White Joint Compound/Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	27-FC3,MG3-081		Bldg 220-Toilet 1 Cove Base NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877461	<b>Description / Location:</b>	Brown Mastic	<b>Layer No.:</b> 3
<b>Client No.:</b>	27-FC3,MG3-081		Bldg 220-Toilet 1 Cove Base NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877462	<b>Description / Location:</b>	Brown Sheetrock	
<b>Client No.:</b>	28-WB2-082		Bldg305-RR112 (Currently Mens) NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95
		Trace	Mineral Wool	

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** V. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877463	<b>Description / Location:</b>	Brown Sheetrock	
<b>Client No.:</b>	28-WB2-083		Bldg305-RR112 (Currently Mens) NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90
		Trace	Mineral Wool	

<b>Lab No.:</b>	4877464	<b>Description / Location:</b>	Brown Sheetrock	
<b>Client No.:</b>	28-WB2-084		Bldg305-RR112 (Currently Mens) NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90
		Trace	Mineral Wool	

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**NY-DOH No. 11021**

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**Analytical Method:**

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**Comments:**

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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877465	<b>Description / Location:</b> Tan Ceramic Tile; 1x1			
<b>Client No.:</b> 29-MA8-085	Bldg 305-RR 112 Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877465	<b>Description / Location:</b> White Non-Fibrous	<b>Layer No.:</b> 2		
<b>Client No.:</b> 29-MA8-085	Bldg 305-RR 112 Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877465	<b>Description / Location:</b> Off-White Non-Fibrous	<b>Layer No.:</b> 3		
<b>Client No.:</b> 29-MA8-085	Bldg 305-RR 112 Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

#### Accreditation

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#### Analytical Method:

EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877466	<b>Description / Location:</b>	Tan Ceramic Tile; 1x1	
<b>Client No.:</b>	29-MA8-086		Bldg 305-RR 112 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877466	<b>Description / Location:</b>	White Non-Fibrous	<b>Layer No.:</b> 2
<b>Client No.:</b>	29-MA8-086		Bldg 305-RR 112 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877467	<b>Description / Location:</b>	Tan Ceramic Tile; 1x1	
<b>Client No.:</b>	29-MA8-087		Bldg 305-RR 112 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877468	<b>Description / Location:</b>	Grey Non-Fibrous	
<b>Client No.:</b>	30-MA7-088		Bldg 305-RR 112 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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611 Lunken Park Drive  
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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877469	<b>Description / Location:</b>	Grey Non-Fibrous	
<b>Client No.:</b>	30-MA7-089		Bldg 305-RR 112 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877470	<b>Description / Location:</b>	Grey Non-Fibrous	
<b>Client No.:</b>	30-MA7-090		Bldg 305-RR 112 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877471	<b>Description / Location:</b>	White Grout	
<b>Client No.:</b>	31-MA8-091		Bldg 305-RR 112 Walls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877472	<b>Description / Location:</b>	White Grout	
<b>Client No.:</b>	31-MA8-092		Bldg 305-RR 112 Walls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** V. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877473	<b>Description / Location:</b>	White Grout	
<b>Client No.:</b>	31-MA8-093		Bldg 305-RR 112 Walls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877474	<b>Description / Location:</b>	Tan Mastic	
<b>Client No.:</b>	32-MG5-094		Bldg 305-RR 112 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877475	<b>Description / Location:</b>	Tan Mastic	
<b>Client No.:</b>	32-MG5-095		Bldg 305-RR 112 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877476	<b>Description / Location:</b>	Tan Mastic	
<b>Client No.:</b>	32-MG5-096		Bldg 305-RR 112 Floor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** V. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877477	<b>Description / Location:</b>	Brown/White Sheetrock
<b>Client No.:</b>	33-WB1-097		Bldg 305-RR 112 Walls
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	10	Cellulose
		Trace	Mineral Wool

<b>Lab No.:</b>	4877477	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	33-WB1-097		Bldg 305-RR 112 Walls		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877477	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	33-WB1-097		Bldg 305-RR 112 Walls		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	10	Cellulose	90	
		Trace	Mineral Wool		

<b>Lab No.:</b>	4877477D	<b>Description / Location:</b>	Tan Mastic
<b>Client No.:</b>	33-WB1-097		Bldg 305-RR 112 Walls
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			100

**Accreditation****NIST-NVLAP No. 101165-0****NY-DOH No. 11021****AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877478	<b>Description / Location:</b>	Brown/White Sheetrock
<b>Client No.:</b>	33-WB1-098		Bldg 305-RR 112 Walls
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	40	Cellulose

<b>Lab No.:</b>	4877478	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	33-WB1-098		Bldg 305-RR 112 Walls		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877478	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	33-WB1-098		Bldg 305-RR 112 Walls		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	40	Cellulose	60	

<b>Lab No.:</b>	4877478D	<b>Description / Location:</b>	Tan Mastic
<b>Client No.:</b>	33-WB1-098		Bldg 305-RR 112 Walls
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected

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**Analytical Method:**

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**Comments:**

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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877479	<b>Description / Location:</b>	Brown/White Sheetrock	
<b>Client No.:</b>	33-WB1-099		Bldg 305-RR 112 Walls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Cellulose	40

<b>Lab No.:</b>	4877480	<b>Description / Location:</b>	White/Tan Ceiling Tile; 2x4	
<b>Client No.:</b>	34-CT4-100		Bldg 305-RR 112	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	70	Cellulose	30

<b>Lab No.:</b>	4877481	<b>Description / Location:</b>	White/Tan Ceiling Tile; 2x4	
<b>Client No.:</b>	34-CT4-101		Bldg 305-RR 112	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	70	Cellulose	30

<b>Lab No.:</b>	4877482	<b>Description / Location:</b>	White/Tan Ceiling Tile; 2x4	
<b>Client No.:</b>	34-CT4-102		Bldg 305-RR 112	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	70	Cellulose	30

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** V. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877483	<b>Description / Location:</b>	White/Grey Ceiling Tile; 2x2	
<b>Client No.:</b>	35-CT3-103		Bldg 305-RR 123 (Currently Women's RR)	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Cellulose	10
		60	Mineral Wool	

<b>Lab No.:</b>	4877484	<b>Description / Location:</b>	White/Grey Ceiling Tile; 2x2	
<b>Client No.:</b>	35-CT3-104		Bldg 305-RR 123 (Currently Women's RR)	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Cellulose	10
		60	Mineral Wool	

<b>Lab No.:</b>	4877485	<b>Description / Location:</b>	White/Grey Ceiling Tile; 2x2	
<b>Client No.:</b>	35-CT3-105		Bldg 305-RR 123 (Currently Women's RR)	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Cellulose	10
		60	Mineral Wool	

**Accreditation****NIST-NVLAP No. 101165-0****NY-DOH No. 11021****AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** V. Smith**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 4877486 **Description / Location:** Grey Ceramic Tile  
**Client No.:** 36-MA7-106 Bldg 305-RR 123; N Side Doorframe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 4877486 **Description / Location:** Off-White Mortar **Layer No.:** 2  
**Client No.:** 36-MA7-106 Bldg 305-RR 123; N Side Doorframe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 4877487 **Description / Location:** Grey Ceramic Tile  
**Client No.:** 36-MA7-107 Bldg 305-RR 123; N Side Doorframe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 4877487 **Description / Location:** Off-White Mortar **Layer No.:** 2  
**Client No.:** 36-MA7-107 Bldg 305-RR 123; N Side Doorframe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation** NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** V. Smith

**Date:** 12/31/2012





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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877488	<b>Description / Location:</b>	Grey Ceramic Tile; 1x1	
<b>Client No.:</b>	36-MA7-108		Bldg 305-RR 123; N Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877488	<b>Description / Location:</b>	Off-White Mortar	<b>Layer No.:</b>	2
<b>Client No.:</b>	36-MA7-108		Bldg 305-RR 123; N Side Doorframe		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877489	<b>Description / Location:</b>	Grey Ceramic Tile; 1x1	
<b>Client No.:</b>	37-MA8-109		Bldg 305-RR 123; N Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877489	<b>Description / Location:</b>	Grey Grout	<b>Layer No.:</b>	2
<b>Client No.:</b>	37-MA8-109		Bldg 305-RR 123; N Side Doorframe		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

#### Accreditation

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

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#### Analytical Method:

EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

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**Analysis Performed By:** V. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877490	<b>Description / Location:</b>	Grey Grout	
<b>Client No.:</b>	37-MA8-110		Bldg 305-RR 123; N Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877491	<b>Description / Location:</b>	Grey Ceramic Tile; 1x1	
<b>Client No.:</b>	37-MA8-111		Bldg 305-RR 123; N Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877491	<b>Description / Location:</b>	Grey Grout	<b>Layer No.:</b> 2
<b>Client No.:</b>	37-MA8-111		Bldg 305-RR 123; N Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877492	<b>Description / Location:</b>	White Plaster	
<b>Client No.:</b>	38-HP2-112		Bldg 305-RR 112 Upper Ceiling NW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Date:** 12/31/2012



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611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877493	<b>Description / Location:</b>	White Plaster	
<b>Client No.:</b>	38-HP2-113		Bldg 305-RR 123 Upper Ceiling W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877494	<b>Description / Location:</b>	White Plaster	
<b>Client No.:</b>	38-HP2-114		Bldg 305-RR 112 Upper Ceiling NWC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877495	<b>Description / Location:</b>	White Plaster	
<b>Client No.:</b>	38-HP2-115		Bldg 305-RR 123 Upper Ceiling W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877496	<b>Description / Location:</b>	White Plaster	
<b>Client No.:</b>	38-HP2-116		Bldg 305-RR 112 Upper Ceiling NWC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Date:** 12/31/2012



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**Report Date:** 12/31/2012  
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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877497	<b>Description / Location:</b>	Grey Grout	
<b>Client No.:</b>	39-MA8-117		Bldg 307-RR 003 & 103 W Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877498	<b>Description / Location:</b>	Grey Grout	
<b>Client No.:</b>	39-MA8-118		Bldg 307-RR 003 & 103 W Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877499	<b>Description / Location:</b>	Grey Grout	
<b>Client No.:</b>	39-MA8-119		Bldg 307-RR 003 & 103 W Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877500	<b>Description / Location:</b>	Grey Mortar; Bldg 307-RR 003 & 103	
<b>Client No.:</b>	40-MA7-120		W Side Of Door Frame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

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**Comments:**

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**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877501	<b>Description / Location:</b>	Grey Mortar; Bldg 307-RR 003 & 103	
<b>Client No.:</b>	40-MA7-121		W Side Of Door Frame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	None Detected	None Detected	100

<b>Lab No.:</b>	4877502	<b>Description / Location:</b>	Grey Mortar; Bldg 307-RR 003 & 103	
<b>Client No.:</b>	40-MA7-122		W Side Of Door Frame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	None Detected	None Detected	100

<b>Lab No.:</b>	4877503	<b>Description / Location:</b>	Grey Mortar; Bldg 307-RR 002 & 102	
<b>Client No.:</b>	41-MA7-123		W Side Of Door Frame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	None Detected	None Detected	100

<b>Lab No.:</b>	4877504	<b>Description / Location:</b>	Grey Mortar; Bldg 307-RR 002 & 102	
<b>Client No.:</b>	41-MA7-124		W Side Of Door Frame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877505	<b>Description / Location:</b>	Grey Mortar; Bldg 307-RR 002 & 102	
<b>Client No.:</b>	41-MA7-125		W Side Of Door Frame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC Trace	Chrysotile	None Detected	None Detected	100

<b>Lab No.:</b>	4877506	<b>Description / Location:</b>	Grey Grout; Bldg 307-RR 002 & 102	
<b>Client No.:</b>	42-MA8-126		W Side Of Door Frame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877507	<b>Description / Location:</b>	Grey Grout; Bldg 307-RR 002 & 102	
<b>Client No.:</b>	42-MA8-127		W Side Of Door Frame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877508	<b>Description / Location:</b>	Grey Grout; Bldg 307-RR 002 & 102	
<b>Client No.:</b>	42-MA8-128		W Side Of Door Frame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877509	<b>Description / Location:</b>	Tan Ceiling Tile; 2x2	
<b>Client No.:</b>	43-CT3-129		Bldg 307-RR 002, 003, 102 & 103	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	45
		20	Fibrous Glass	

<b>Lab No.:</b>	4877510	<b>Description / Location:</b>	Tan Ceiling Tile; 2x2	
<b>Client No.:</b>	43-CT3-130		Bldg 307-RR 002, 003, 102 & 103	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	45
		20	Fibrous Glass	

<b>Lab No.:</b>	4877511	<b>Description / Location:</b>	Tan Ceiling Tile; 2x2	
<b>Client No.:</b>	43-CT3-131		Bldg 307-RR 002, 003, 102 & 103	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	45
		20	Fibrous Glass	

<b>Lab No.:</b>	4877512	<b>Description / Location:</b>	White Sealant; Pipe Wrap	
<b>Client No.:</b>	44-SC5-132		Bldg 307-RR 003, NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.25	Chrysotile	None Detected	None Detected	PC 99.75

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877513	<b>Description / Location:</b> White Sealant; Pipe Wrap			
<b>Client No.:</b> 44-SC5-133	Bldg 307-RR 003, NEC			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.25	Chrysotile	None Detected	None Detected	PC 99.75

<b>Lab No.:</b> 4877514	<b>Description / Location:</b> White Sealant; Pipe Wrap			
<b>Client No.:</b> 44-SC5-134	Bldg 307-RR 003, NEC			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.25	Chrysotile	None Detected	None Detected	PC 99.75

<b>Lab No.:</b> 4877515	<b>Description / Location:</b> Tan Mastic			
<b>Client No.:</b> 45-MG5-135	Bldg307-RR 002 & 102 W Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877515	<b>Description / Location:</b> White Texture	<b>Layer No.:</b> 2		
<b>Client No.:</b> 45-MG5-135	Bldg307-RR 002 & 102 W Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.25	Chrysotile	None Detected	None Detected	PC 99.75

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** E. Smith

**Date:** 12/31/2012





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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877516	<b>Description / Location:</b>	Tan Mastic	
<b>Client No.:</b>	45-MG5-136		Bldg307-RR 002&102, W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877516	<b>Description / Location:</b>	White Texture	<b>Layer No.:</b>	2
<b>Client No.:</b>	45-MG5-136		Bldg307-RR 002&102, W Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC 0.25	Chrysotile	None Detected	None Detected	PC 99.75	

<b>Lab No.:</b>	4877517	<b>Description / Location:</b>	Tan Mastic	
<b>Client No.:</b>	45-MG5-137		Bldg307-RR 002&102, W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877517	<b>Description / Location:</b>	White Texture	<b>Layer No.:</b>	2
<b>Client No.:</b>	45-MG5-137		Bldg307-RR 002&102, W Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC 0.25	Chrysotile	None Detected	None Detected	PC 99.75	

#### Accreditation

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

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#### Analytical Method:

EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

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**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

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611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877518	<b>Description / Location:</b>	White Grout	
<b>Client No.:</b>	46-MA8-138		Bldg307-RR002&102, W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877519	<b>Description / Location:</b>	White Grout	
<b>Client No.:</b>	46-MA8-139		Bldg307-RR002&102, W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877520	<b>Description / Location:</b>	White Grout	
<b>Client No.:</b>	46-MA8-140		Bldg307-RR002&102, W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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#### Analytical Method:

EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

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**Date:** 12/31/2012



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611 Lunken Park Drive  
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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877521	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	47-WB1-141		Bldg 307-RR 002, E Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

<b>Lab No.:</b>	4877521	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	47-WB1-141		Bldg 307-RR 002, E Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC 1.7	Chrysotile	None Detected	None Detected	PC 98.3	

<b>Lab No.:</b>	4877521	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	47-WB1-141		Bldg 307-RR 002, E Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC Trace	Chrysotile	15	Cellulose	85	

<b>Lab No.:</b>	4877521D	<b>Description / Location:</b>	White Wall Texture	
<b>Client No.:</b>	47-WB1-141		Bldg 307-RR 002, E Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.5	Chrysotile	None Detected	None Detected	PC 98.5

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877522	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	47-WB1-142		Bldg 307-RR 002, W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	83
		2	Fibrous Glass	

<b>Lab No.:</b>	4877522	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	47-WB1-142		Bldg 307-RR 002, W Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC 1.8	Chrysotile	None Detected	None Detected	PC 98.2	

<b>Lab No.:</b>	4877522	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	47-WB1-142		Bldg 307-RR 002, W Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC Trace	Chrysotile	15	Cellulose	83	
		2	Fibrous Glass		

#### Accreditation

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#### Analytical Method:

EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

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**Date:** 12/31/2012



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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877523	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	47-WB1-143		Bldg 307-RR 002, E Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	79
		1	Fibrous Glass	

<b>Lab No.:</b>	4877523	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	47-WB1-143		Bldg 307-RR 002, E Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC 2.0	Chrysotile	None Detected	None Detected	98	

<b>Lab No.:</b>	4877523	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	47-WB1-143		Bldg 307-RR 002, E Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC Trace	Chrysotile	20	Cellulose	79	
		1	Fibrous Glass		

#### Accreditation

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#### Analytical Method:

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#### Comments:

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**Date:** 12/31/2012



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**Report Date:** 12/31/2012  
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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877524	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	48-WB1-144		Bldg 307-RR 103, N Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	83
		2	Fibrous Glass	

<b>Lab No.:</b>	4877524	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	48-WB1-144		Bldg 307-RR 103, N Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC 2.3	Chrysotile	None Detected	None Detected	PC 97.7	

<b>Lab No.:</b>	4877524	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	48-WB1-144		Bldg 307-RR 103, N Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC Trace	Chrysotile	15	Cellulose	83	
		2	Fibrous Glass		

#### Accreditation

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#### Analytical Method:

EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877525	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	48-WB1-145		Bldg 307-RR 103, N Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

<b>Lab No.:</b>	4877525	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	48-WB1-145		Bldg 307-RR 103, N Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC 1.8	Chrysotile	None Detected	None Detected	PC 98.2	

<b>Lab No.:</b>	4877525	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	48-WB1-145		Bldg 307-RR 103, N Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC Trace	Chrysotile	20	Cellulose	80	

#### Accreditation

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

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#### Analytical Method:

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**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877526	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	48-WB1-146		Bldg 307-RR 103, N Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

<b>Lab No.:</b>	4877526	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	48-WB1-146		Bldg 307-RR 103, N Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC 1.7	Chrysotile	None Detected	None Detected	PC 98.3	

<b>Lab No.:</b>	4877526	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	48-WB1-146		Bldg 307-RR 103, N Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC Trace	Chrysotile	20	Cellulose	80	

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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877527	<b>Description / Location:</b>	Off-White Floor Tile; 12x12	
<b>Client No.:</b>	49-FT2,MG2-147		Bldg 310-HallToRR 1E-158(CurrentMen'sRR)	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877527	<b>Description / Location:</b>	Black Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	49-FT2,MG2-147		Bldg 310-HallToRR 1E-158(CurrentMen'sRR)	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.5	Chrysotile	None Detected	None Detected	PC 99.5

<b>Lab No.:</b>	4877528	<b>Description / Location:</b>	Off-White Floor Tile; 12x12	
<b>Client No.:</b>	49-FT2,MG2-148		Bldg 310-HallToRR 1E-158(CurrentMen'sRR)	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877528	<b>Description / Location:</b>	Tan Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	49-FT2,MG2-148		Bldg 310-HallToRR 1E-158(CurrentMen'sRR)	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877529	<b>Description / Location:</b>	Off-White Floor Tile; 12x12	
<b>Client No.:</b>	49-FT2,MG2-149		Bldg 310-HallToRR 1E-158(CurrentMen'sRR)	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877529	<b>Description / Location:</b>	Black Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	49-FT2,MG2-149		Bldg 310-HallToRR 1E-158(CurrentMen'sRR)		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC 0.5	Chrysotile	None Detected	None Detected	PC 99.5	

<b>Lab No.:</b>	4877530	<b>Description / Location:</b>	Lt.Grey Floor Tile; 12x12	
<b>Client No.:</b>	50-FT2,MG2-150		Bldg 310-Hall To RR 1E-158 NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877530	<b>Description / Location:</b>	Tan Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	50-FT2,MG2-150		Bldg 310-Hall To RR 1E-158 NEC		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC Trace	Chrysotile	None Detected	None Detected	100	

#### Accreditation

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#### Analytical Method:

EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 4877531 **Description / Location:** Lt.Grey Floor Tile; 12x12  
**Client No.:** 50-FT2,MG2-151 Bldg 310-Hall To RR 1E-158 S End

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 4877531 **Description / Location:** Black Mastic **Layer No.:** 2  
**Client No.:** 50-FT2,MG2-151 Bldg 310-Hall To RR 1E-158 S End

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.5	Chrysotile	None Detected	None Detected	PC 99.5

**Lab No.:** 4877532 **Description / Location:** Lt.Grey Floor Tile; 12x12  
**Client No.:** 50-FT2,MG2-152 Bldg 310-Hall To RR 1E-158 N End

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 4877532 **Description / Location:** Black/Tan Mastic **Layer No.:** 2  
**Client No.:** 50-FT2,MG2-152 Bldg 310-Hall To RR 1E-158 N End

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 0.25	Chrysotile	None Detected	None Detected	PC 99.75

**Accreditation** NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877533	<b>Description / Location:</b>	Tan Cove Base; 4"	
<b>Client No.:</b>	51-FC3,MG3-153		Bldg 310-Hall To RR 1E-158; SWall SWC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877533	<b>Description / Location:</b>	Lt.Tan Mastic		<b>Layer No.:</b>	2
<b>Client No.:</b>	51-FC3,MG3-153		Bldg 310-Hall To RR 1E-158; SWall SWC			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>		
None Detected	None Detected	None Detected	None Detected	100		

<b>Lab No.:</b>	4877534	<b>Description / Location:</b>	Lt.Tan Cove Base; 4"			
<b>Client No.:</b>	51-FC3,MG3-154		Bldg 310-Hall To RR 1E-158; SWall SWC			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>		
None Detected	None Detected	None Detected	None Detected	100		

<b>Lab No.:</b>	4877534	<b>Description / Location:</b>	Lt.Tan Mastic		<b>Layer No.:</b>	2
<b>Client No.:</b>	51-FC3,MG3-154		Bldg 310-Hall To RR 1E-158; SWall SWC			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>		
None Detected	None Detected	None Detected	None Detected	100		

<b>Accreditation</b>	<b>NIST-NVLAP No. 101165-0</b>	<b>NY-DOH No. 11021</b>	<b>AIHA-LAP, LLC No. 100188</b>
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<b>Analytical Method:</b>	EPA 600/R-93/116, by Polarized Light Microscopy
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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877535	<b>Description / Location:</b> Lt.Tan Cove Base; 4"			
<b>Client No.:</b> 51-FC3,MG3-155	Bldg 310-Hall To RR 1E-158; SWall SWC			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877535	<b>Description / Location:</b> Lt.Tan Mastic	<b>Layer No.:</b> 2		
<b>Client No.:</b> 51-FC3,MG3-155	Bldg 310-Hall To RR 1E-158; SWall SWC			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877536	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	52-WB1-156		Bldg310-HallToRR1E-158&RR1E-158E&WWalls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

<b>Lab No.:</b>	4877536	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	52-WB1-156		Bldg310-HallToRR1E-158&RR1E-158E&WWalls		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877536	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	52-WB1-156		Bldg310-HallToRR1E-158&RR1E-158E&WWalls		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	20	Cellulose	80	

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877537	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	52-WB1-157		Bldg310-HallToRR1E-158&RR1E-158E&WWalls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

<b>Lab No.:</b>	4877537	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	52-WB1-157		Bldg310-HallToRR1E-158&RR1E-158E&WWalls		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877537	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	52-WB1-157		Bldg310-HallToRR1E-158&RR1E-158E&WWalls		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	20	Cellulose	80	

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877538	<b>Description / Location:</b> Lt.Tan Sheetrock			
<b>Client No.:</b> 52-WB1-158	Bldg310-HallToRR1E-158&RR1E-158E&WWalls			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

<b>Lab No.:</b> 4877538	<b>Description / Location:</b> White Joint Compound	<b>Layer No.:</b> 2		
<b>Client No.:</b> 52-WB1-158	Bldg310-HallToRR1E-158&RR1E-158E&WWalls			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877538	<b>Description / Location:</b> Composite	<b>Layer No.:</b> 3		
<b>Client No.:</b> 52-WB1-158	Bldg310-HallToRR1E-158&RR1E-158E&WWalls			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

<b>Lab No.:</b> 4877539	<b>Description / Location:</b> Tan Ceiling Tile; 2x4; Bldg310-RR1E-158			
<b>Client No.:</b> 53-CT4-159	Middle Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	45
		20	Fibrous Glass	

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** E. Smith

**Date:** 12/31/2012





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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877540	<b>Description / Location:</b>	Tan Ceiling Tile; 2x4; Bldg310-RR1E-158	
<b>Client No.:</b>	53-CT4-160		Middle	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	45
		20	Fibrous Glass	

<b>Lab No.:</b>	4877541	<b>Description / Location:</b>	Tan Ceiling Tile; 2x4; Bldg310-RR1E-158	
<b>Client No.:</b>	53-CT4-161		Middle	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	45
		20	Fibrous Glass	

<b>Lab No.:</b>	4877542	<b>Description / Location:</b>	Tan Ceiling Tile; 2x4; Bldg 310	
<b>Client No.:</b>	54-CT4-162		RR 1E-152	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	45
		20	Fibrous Glass	

<b>Lab No.:</b>	4877543	<b>Description / Location:</b>	Tan Ceiling Tile; 2x4; Bldg 310	
<b>Client No.:</b>	54-CT4-163		RR 1E-152	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	45
		20	Fibrous Glass	

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877544	<b>Description / Location:</b>	Tan Ceiling Tile; 2x4; Bldg 310	
<b>Client No.:</b>	54-CT4-164		RR 1E-152, Middle	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	45
		20	Fibrous Glass	

<b>Lab No.:</b>	4877545	<b>Description / Location:</b>	Grey Grout; Bldg 310	
<b>Client No.:</b>	55-MA8-165		RR 1E-152 E Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877546	<b>Description / Location:</b>	Grey Grout; Bldg 310	
<b>Client No.:</b>	55-MA8-166		RR 1E-152 E Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877547	<b>Description / Location:</b>	Grey Grout; Bldg 310	
<b>Client No.:</b>	55-MA8-167		RR 1E-152 E Side Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877548	<b>Description / Location:</b>	Grey Mortar; A/W 2x2 Ceramic FT	
<b>Client No.:</b>	56-MA7-168		Bldg 310-RR 1E-152; ESideOfDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877549	<b>Description / Location:</b>	Grey Mortar; A/W 2x2 Ceramic FT	
<b>Client No.:</b>	56-MA7-169		Bldg 310-RR 1E-152; ESideOfDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877550	<b>Description / Location:</b>	Grey Mortar; A/W 2x2 Ceramic FT	
<b>Client No.:</b>	56-MA7-170		Bldg 310-RR 1E-152; ESideOfDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877551	<b>Description / Location:</b>	White Mortar; A/W4x4CeramicWallTile	
<b>Client No.:</b>	57-MA8-171		Bldg 310-RR 1E-152; N Wall, E Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** R. Caran

**Date:** 12/31/2012



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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877552	<b>Description / Location:</b>	White Mortar; A/W4x4CeramicWallTile	
<b>Client No.:</b>	57-MA8-172		Bldg 310-RR 1E-152; N Wall, E Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877553	<b>Description / Location:</b>	White Mortar; A/W4x4CeramicWallTile	
<b>Client No.:</b>	57-MA8-173		Bldg 310-RR 1E-152; N Wall, E Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877554	<b>Description / Location:</b>	Tan Mastic; A/W4x4CeramicWallTile	
<b>Client No.:</b>	58-MG5-174		Bldg 310-RR 1E-152; N Wall, E Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877555	<b>Description / Location:</b>	Tan Mastic; A/W4x4CeramicWallTile	
<b>Client No.:</b>	58-MG5-175		Bldg 310-RR 1E-152; N Wall, E Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:** 12/31/2012



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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877556	<b>Description / Location:</b>	Tan Mastic; A/W4x4CeramicWallTile	
<b>Client No.:</b>	58-MG5-176		Bldg 310-RR 1E-152; N Wall, E Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877557	<b>Description / Location:</b>	Grey Mortar; A/W1x1CeramicFT	
<b>Client No.:</b>	59-MA8-177		Bldg310-RR 1E-158,2E-107,2E-108,2E-139	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877558	<b>Description / Location:</b>	Grey Mortar; A/W1x1CeramicFT	
<b>Client No.:</b>	59-MA8-178		Bldg310-RR 1E-158,2E-107,2E-108,2E-139	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877559	<b>Description / Location:</b>	Grey Mortar; A/W1x1CeramicFT	
<b>Client No.:</b>	59-MA8-179		Bldg310-RR 1E-158,2E-107,2E-108,2E-139	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877560	<b>Description / Location:</b>	Grey Mortar; A/W1x1CeramicFT	
<b>Client No.:</b>	60-MA7-180		Bldg310-RR 1E-158,2E-107,2E-108,2E-139	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877561	<b>Description / Location:</b>	Grey Mortar; A/W1x1CeramicFT	
<b>Client No.:</b>	60-MA7-181		Bldg310-RR 1E-158,2E-107,2E-108,2E-139	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877562	<b>Description / Location:</b>	Grey Mortar; A/W1x1CeramicFT	
<b>Client No.:</b>	60-MA7-182		Bldg310-RR 1E-158,2E-107,2E-108,2E-139	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877563	<b>Description / Location:</b>	WhiteMortar;A/WCeramicWallTile;Bldg310	
<b>Client No.:</b>	61-MA8-183		RR 1E-158,2E-107,2E-108,2E-139&2E-140	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** R. Caran

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877564	<b>Description / Location:</b>	WhiteMortar;A/WCeramicWallTile;Bldg310	
<b>Client No.:</b>	61-MA8-184		RR 1E-158,2E-107,2E-108,2E-139&2E-140	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877565	<b>Description / Location:</b>	WhiteMortar;A/WCeramicWallTile;Bldg310	
<b>Client No.:</b>	61-MA8-185		RR 1E-158,2E-107,2E-108,2E-139&2E-140	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877566	<b>Description / Location:</b>	Tan Mastic; A/WCeramicWallTile; Bldg310	
<b>Client No.:</b>	62-MG5-186		RR 1E-158,2E-107,2E-108,2E-139&2E-140	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877567	<b>Description / Location:</b>	Tan Mastic; A/WCeramicWallTile; Bldg310	
<b>Client No.:</b>	62-MG5-187		RR 1E-158,2E-107,2E-108,2E-139&2E-140	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877568	<b>Description / Location:</b>	Tan Mastic; A/W Ceramic Wall Tile; Bldg 310	
<b>Client No.:</b>	62-MG5-188		RR 1E-158, 2E-107, 2E-108, 2E-139 & 2E-140	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877569	<b>Description / Location:</b>	Brown Tape	
<b>Client No.:</b>	63-SC5-189		Bldg 310-RR 1E-152 On Duct Work W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Cellulose	50

<b>Lab No.:</b>	4877570	<b>Description / Location:</b>	Brown Tape	
<b>Client No.:</b>	63-SC5-190		Bldg 310-RR 1E-152 On Duct Work W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Cellulose	50

<b>Lab No.:</b>	4877571	<b>Description / Location:</b>	Brown Tape	
<b>Client No.:</b>	63-SC5-191		Bldg 310-RR 1E-152 On Duct Work W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Cellulose	50

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:** 12/31/2012





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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877572	<b>Description / Location:</b>	White Mastic; Bldg 310 RR 1E-152	
<b>Client No.:</b>	64-SC5-192		Wrapped Duct Work	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.5	Chrysotile	None Detected	None Detected	PC 97.5

<b>Lab No.:</b>	4877573	<b>Description / Location:</b>	White Mastic; Bldg 310 RR 1E-152	
<b>Client No.:</b>	64-SC5-193		Wrapped Duct Work	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.3	Chrysotile	None Detected	None Detected	PC 96.7

<b>Lab No.:</b>	4877574	<b>Description / Location:</b>	White Mastic; Bldg 310 RR 1E-152	
<b>Client No.:</b>	64-SC5-194		Wrapped Duct Work	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.4	Chrysotile	None Detected	None Detected	PC 96.6

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**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:** 12/31/2012



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Cincinnati OH 45226

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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877575	<b>Description / Location:</b>	White Sheetrock	
<b>Client No.:</b>	65-WB1-195		Bldg 310 RR 1E-152 N Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Cellulose	97

<b>Lab No.:</b>	4877575	<b>Description / Location:</b>	White Fibrous	<b>Layer No.:</b>	2
<b>Client No.:</b>	65-WB1-195		Bldg 310 RR 1E-152 N Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	100	Cellulose	None Detected	

<b>Lab No.:</b>	4877575	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	3
<b>Client No.:</b>	65-WB1-195		Bldg 310 RR 1E-152 N Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877575D	<b>Description / Location:</b>	Composite		
<b>Client No.:</b>	65-WB1-195		Bldg 310 RR 1E-152 N Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	4	Cellulose	96	

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** R. Caran

**Date:** 12/31/2012



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611 Lunken Park Drive  
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**Report Date:** 12/31/2012  
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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877576	<b>Description / Location:</b>	White Sheetrock	
<b>Client No.:</b>	65-WB1-196		Bldg 310 RR 1E-158 S Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Cellulose	97

<b>Lab No.:</b>	4877576	<b>Description / Location:</b>	White Fibrous	<b>Layer No.:</b>	2
<b>Client No.:</b>	65-WB1-196		Bldg 310 RR 1E-158 S Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	100	Cellulose	None Detected	

<b>Lab No.:</b>	4877576	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	3
<b>Client No.:</b>	65-WB1-196		Bldg 310 RR 1E-158 S Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877576D	<b>Description / Location:</b>	Composite		
<b>Client No.:</b>	65-WB1-196		Bldg 310 RR 1E-158 S Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	4	Cellulose	96	

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

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**Report Date:** 12/31/2012  
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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877577	<b>Description / Location:</b> White Sheetrock			
<b>Client No.:</b> 65-WB1-197	Bldg 310 2E-139 NWC Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Cellulose	97

<b>Lab No.:</b> 4877577	<b>Description / Location:</b> White Fibrous	<b>Layer No.:</b> 2		
<b>Client No.:</b> 65-WB1-197	Bldg 310 2E-139 NWC Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

<b>Lab No.:</b> 4877577	<b>Description / Location:</b> White Joint Compound	<b>Layer No.:</b> 3		
<b>Client No.:</b> 65-WB1-197	Bldg 310 2E-139 NWC Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877577D	<b>Description / Location:</b> Composite			
<b>Client No.:</b> 65-WB1-197	Bldg 310 2E-139 NWC Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	4	Cellulose	96

#### Accreditation

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NY-DOH No. 11021

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#### Analytical Method:

EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877578	<b>Description / Location:</b>	White Sheetrock	
<b>Client No.:</b>	65-WB1-198		Bldg 310 2E-108 SWC Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Cellulose	97

<b>Lab No.:</b>	4877578	<b>Description / Location:</b>	White Fibrous	<b>Layer No.:</b> 2
<b>Client No.:</b>	65-WB1-198		Bldg 310 2E-108 SWC Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

<b>Lab No.:</b>	4877578	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b> 3
<b>Client No.:</b>	65-WB1-198		Bldg 310 2E-108 SWC Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877578D	<b>Description / Location:</b>	Composite	
<b>Client No.:</b>	65-WB1-198		Bldg 310 2E-108 SWC Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	4	Cellulose	96

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877579	<b>Description / Location:</b>	White Sheetrock	
<b>Client No.:</b>	65-WB1-199		Bldg 310 RR 1E-158 S Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Cellulose	97

<b>Lab No.:</b>	4877579	<b>Description / Location:</b>	White Fibrous	<b>Layer No.:</b> 2
<b>Client No.:</b>	65-WB1-199		Bldg 310 RR 1E-158 S Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

<b>Lab No.:</b>	4877579	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b> 3
<b>Client No.:</b>	65-WB1-199		Bldg 310 RR 1E-158 S Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877579D	<b>Description / Location:</b>	Composite	
<b>Client No.:</b>	65-WB1-199		Bldg 310 RR 1E-158 S Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	4	Cellulose	96

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** R. Caran

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877580	<b>Description / Location:</b>	Grey Mortar; A/W1x1CeramicFT	
<b>Client No.:</b>	66-MA8-200		Bldg322-RR9 NSideOfDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877581	<b>Description / Location:</b>	Grey Mortar; A/W1x1CeramicFT	
<b>Client No.:</b>	66-MA8-201		Bldg322-RR9 NSideOfDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877582	<b>Description / Location:</b>	Grey Mortar; A/W1x1CeramicFT	
<b>Client No.:</b>	66-MA8-202		Bldg322-RR9 NSideOfDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877583	<b>Description / Location:</b>	GreyMortar; A/WCeramicFT	
<b>Client No.:</b>	67-MA7-203		Bldg322-RR9 NSideOfDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** R. Caran

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877584	<b>Description / Location:</b>	GreyMortar; A/W1x1CeramicFT	
<b>Client No.:</b>	67-MA7-204		Bldg322-RR9-NSideOfDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877585	<b>Description / Location:</b>	GreyMortar; A/W1x1CeramicFT	
<b>Client No.:</b>	67-MA7-205		Bldg322-RR9-NSideOfDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877586	<b>Description / Location:</b>	White Mortar; A/W4x4CeramicWallTile	
<b>Client No.:</b>	68-MA8-206		Bldg322-RR9-EWallNSideDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877587	<b>Description / Location:</b>	White Mortar; A/W4x4CeramicWallTile	
<b>Client No.:</b>	68-MA8-207		Bldg322-RR9-EWallNSideDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** R. Caran

**Date:** 12/31/2012





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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877588	<b>Description / Location:</b>	White Mortar; A/W4x4WallTile	
<b>Client No.:</b>	68-MA8-208		Bldg322-RR9-EWallNSideDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877589	<b>Description / Location:</b>	Tan Mastic; A/W4x4WallTile	
<b>Client No.:</b>	69-MG5-209		Bldg322-RR9-EWallNSideDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877590	<b>Description / Location:</b>	Tan Mastic; A/W4x4CeramicWallTile	
<b>Client No.:</b>	69-MG5-210		Bldg322-RR9-EWallNSideDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877591	<b>Description / Location:</b>	Tan Mastic; A/W4x4CeramicWallTile	
<b>Client No.:</b>	69-MG5-211		Bldg322-RR9-EWallNSideDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** R. Caran

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877592	<b>Description / Location:</b>	White Ceiling Tile; 2x2	
<b>Client No.:</b>	70-CT3-212		Bldg322-RR 9, 2'W Of EWall, 3'S Of NWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Cellulose	10
		30	Fibrous Glass	

<b>Lab No.:</b>	4877593	<b>Description / Location:</b>	White Ceiling Tile; 2x2	
<b>Client No.:</b>	70-CT3-213		Bldg322-RR 9, 2'W Of EWall, 3'S Of NWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Cellulose	10
		30	Fibrous Glass	

<b>Lab No.:</b>	4877594	<b>Description / Location:</b>	White Ceiling Tile; 2x2	
<b>Client No.:</b>	70-CT3-214		Bldg322-RR 9, 2'W Of EWall, 3'S Of NWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Cellulose	10
		30	Fibrous Glass	

**Accreditation****NIST-NVLAP No. 101165-0****NY-DOH No. 11021****AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** R. Caran**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877595	<b>Description / Location:</b>	White Floor Tile; 12x12	
<b>Client No.:</b>	71-FT2,MG2-215		Bldg 322-Dressing Area (10A), N Section	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877595	<b>Description / Location:</b>	Black Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	71-FT2,MG2-215		Bldg 322-Dressing Area (10A), N Section		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877596	<b>Description / Location:</b>	White Floor Tile; 12x12	
<b>Client No.:</b>	71-FT2,MG2-216		Bldg 322-Dressing Area (10A) S Section	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877596	<b>Description / Location:</b>	Black Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	71-FT2,MG2-216		Bldg 322-Dressing Area (10A) S Section		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Accreditation</b>	<b>NIST-NVLAP No. 101165-0</b>	<b>NY-DOH No. 11021</b>	<b>AIHA-LAP, LLC No. 100188</b>
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<b>Analytical Method:</b>	EPA 600/R-93/116, by Polarized Light Microscopy
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**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877597	<b>Description / Location:</b>	White Floor Tile; 12x12	
<b>Client No.:</b>	71-FT2,MG2-217		Bldg 322-Dressing Area (10A) N Section	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877597	<b>Description / Location:</b>	Black Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	71-FT2,MG2-217		Bldg 322-Dressing Area (10A) N Section		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877598	<b>Description / Location:</b>	Brown Cove Base; 4"	
<b>Client No.:</b>	72-FC3,MG3-218		Bldg 322-Dressing Area (10A); SW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877598	<b>Description / Location:</b>	White Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	72-FC3,MG3-218		Bldg 322-Dressing Area (10A); SW Corner		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Accreditation</b>	<b>NIST-NVLAP No. 101165-0</b>	<b>NY-DOH No. 11021</b>	<b>AIHA-LAP, LLC No. 100188</b>
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<b>Analytical Method:</b>	EPA 600/R-93/116, by Polarized Light Microscopy
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**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** R. Caran

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## CERTIFICATE OF ANALYSIS

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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877599	<b>Description / Location:</b>	Brown Cove Base; 4"	
<b>Client No.:</b>	72-FC3, MG3-219		Bldg 322-Dressing Area (10A); SW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877599	<b>Description / Location:</b>	Yellow Mastic		<b>Layer No.:</b>	2
<b>Client No.:</b>	72-FC3, MG3-219		Bldg 322-Dressing Area (10A); SW Corner			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>		
None Detected	None Detected	None Detected	None Detected	100		

<b>Lab No.:</b>	4877600	<b>Description / Location:</b>	Brown Cove Base; 4"	
<b>Client No.:</b>	72-FC3, MG3-220		Bldg 322-Dressing Area (10A); SW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877600	<b>Description / Location:</b>	Yellow Mastic		<b>Layer No.:</b>	2
<b>Client No.:</b>	72-FC3, MG3-220		Bldg 322-Dressing Area (10A); SW Corner			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>		
None Detected	None Detected	None Detected	None Detected	100		

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** R. Caran

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877601	<b>Description / Location:</b> White Sheetrock			
<b>Client No.:</b> 73-WB1-221	Bldg322-RR 9 S Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Cellulose	96
		1	Fibrous Glass	

<b>Lab No.:</b> 4877601	<b>Description / Location:</b> White Fibrous	<b>Layer No.:</b> 2		
<b>Client No.:</b> 73-WB1-221	Bldg322-RR 9 S Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

<b>Lab No.:</b> 4877601	<b>Description / Location:</b> White Joint Compound	<b>Layer No.:</b> 3		
<b>Client No.:</b> 73-WB1-221	Bldg322-RR 9 S Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877601D	<b>Description / Location:</b> Composite			
<b>Client No.:</b> 73-WB1-221	Bldg322-RR 9 S Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	4	Cellulose	95
		1	Fibrous Glass	

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

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**Comments:**

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**Report Date:** 12/31/2012  
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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877602	<b>Description / Location:</b>	White Sheetrock	
<b>Client No.:</b>	73-WB1-222		Bldg322-Dressing Area (10A) S Section	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Cellulose	96
		1	Fibrous Glass	

<b>Lab No.:</b>	4877602	<b>Description / Location:</b>	White Fibrous	<b>Layer No.:</b> 2
<b>Client No.:</b>	73-WB1-222		Bldg322-Dressing Area (10A) S Section	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

<b>Lab No.:</b>	4877602	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b> 3
<b>Client No.:</b>	73-WB1-222		Bldg322-Dressing Area (10A) S Section	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877602D	<b>Description / Location:</b>	Composite	
<b>Client No.:</b>	73-WB1-222		Bldg322-Dressing Area (10A) S Section	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	4	Cellulose	95
		1	Fibrous Glass	

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

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**Comments:**

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**Date:** 12/31/2012



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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877603	<b>Description / Location:</b> White Sheetrock			
<b>Client No.:</b> 73-WB1-223	Bldg322-RR 26 N Wall At W End			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Cellulose	96
		1	Fibrous Glass	

<b>Lab No.:</b> 4877603	<b>Description / Location:</b> White Fibrous	<b>Layer No.:</b> 2		
<b>Client No.:</b> 73-WB1-223	Bldg322-RR 26 N Wall At W End			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

<b>Lab No.:</b> 4877603	<b>Description / Location:</b> White Joint Compound	<b>Layer No.:</b> 3		
<b>Client No.:</b> 73-WB1-223	Bldg322-RR 26 N Wall At W End			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877603D	<b>Description / Location:</b> Composite			
<b>Client No.:</b> 73-WB1-223	Bldg322-RR 26 N Wall At W End			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	4	Cellulose	95
		1	Fibrous Glass	

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

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**Comments:**

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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877604	<b>Description / Location:</b>	Brown Sheetrock	
<b>Client No.:</b>	74-WB1-224		Bldg 322-RR 21 E Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	96
		2	Fibrous Glass	

<b>Lab No.:</b>	4877604	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b> 2
<b>Client No.:</b>	74-WB1-224		Bldg 322-RR 21 E Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877604	<b>Description / Location:</b>	Composite	<b>Layer No.:</b> 3
<b>Client No.:</b>	74-WB1-224		Bldg 322-RR 21 E Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	96
		2	Fibrous Glass	

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877605	<b>Description / Location:</b>	Brown Sheetrock	
<b>Client No.:</b>	74-WB1-225		Bldg 322-RR 26 W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	96
		2	Fibrous Glass	

<b>Lab No.:</b>	4877605	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b> 2
<b>Client No.:</b>	74-WB1-225		Bldg 322-RR 26 W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877605	<b>Description / Location:</b>	Composite	<b>Layer No.:</b> 3
<b>Client No.:</b>	74-WB1-225		Bldg 322-RR 26 W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	96
		2	Fibrous Glass	

#### Accreditation

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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877606	<b>Description / Location:</b> Brown Sheetrock			
<b>Client No.:</b> 74-WB1-226	Bldg 322-RR 21 E Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	96
		2	Fibrous Glass	

<b>Lab No.:</b> 4877606	<b>Description / Location:</b> White Joint Compound	<b>Layer No.:</b> 2		
<b>Client No.:</b> 74-WB1-226	Bldg 322-RR 21 E Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877606	<b>Description / Location:</b> Composite	<b>Layer No.:</b> 3		
<b>Client No.:</b> 74-WB1-226	Bldg 322-RR 21 E Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	96
		2	Fibrous Glass	

<b>Lab No.:</b> 4877607	<b>Description / Location:</b> White Mortar; A/W2x2CeramicFT			
<b>Client No.:</b> 75-MA8-227	Bldg322-RR26-WSideDoorFrame			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

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**Analytical Method:**

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**Date:** 12/31/2012



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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877608	<b>Description / Location:</b>	White Mortar; A/W2x2CeramicFT	
<b>Client No.:</b>	75-MA8-228		Bldg322-RR26-WSideDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877609	<b>Description / Location:</b>	White Mortar; A/W2x2CeramicFT	
<b>Client No.:</b>	75-MA8-229		Bldg322-RR26-WSideDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877610	<b>Description / Location:</b>	White Mortar; A/W2x2CeramicFT	
<b>Client No.:</b>	76-MA7-230		Bldg322-RR26-WSideDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877611	<b>Description / Location:</b>	White Mortar; A/W2x2CeramicFT	
<b>Client No.:</b>	76-MA7-231		Bldg322-RR26-WSideDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877612	<b>Description / Location:</b>	White Mortar; A/W2x2CeramicFT	
<b>Client No.:</b>	76-MA7-232		Bldg322-RR26-WSideDoorFrame	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877613	<b>Description / Location:</b>	White Mortar; A/W4x4CeramicFT	
<b>Client No.:</b>	77-MA8-233		Bldg322-RR26-NWall, WOfDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877614	<b>Description / Location:</b>	White Mortar; A/W4x4CeramicFT	
<b>Client No.:</b>	77-MA8-234		Bldg322-RR26-NWall, WOfDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877615	<b>Description / Location:</b>	White Mortar; A/W4x4CeramicFT	
<b>Client No.:</b>	77-MA8-235		Bldg322-RR26-NWall, WOfDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** R. Caran

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877616	<b>Description / Location:</b>	Tan Mastic; A/W4x4CeramicFT	
<b>Client No.:</b>	78-MG5-236		Bldg322-RR26-NWall,WofDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877617	<b>Description / Location:</b>	Tan Mastic; A/W4x4CeramicFT	
<b>Client No.:</b>	78-MG5-237		Bldg322-RR26-NWall,WofDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877618	<b>Description / Location:</b>	Tan Mastic; A/W4x4CeramicFT	
<b>Client No.:</b>	78-MG5-238		Bldg322-RR26-NWall,WofDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877619	<b>Description / Location:</b>	Grey/White Ceiling Tile; 2x2	
<b>Client No.:</b>	79-CT3-239		Bldg 322-RR 26 W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	15
		50	Fibrous Glass	

**Accreditation**

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**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** B. Hargrove

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877620	<b>Description / Location:</b> Grey/White Ceiling Tile; 2x2			
<b>Client No.:</b> 79-CT3-240	Bldg 322-RR 26 5' S Of N Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	15
		50	Fibrous Glass	

<b>Lab No.:</b> 4877621	<b>Description / Location:</b> Grey/White Ceiling Tile; 2x2			
<b>Client No.:</b> 79-CT3-241	Bldg 322-RR 26 W Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	15
		50	Fibrous Glass	

<b>Lab No.:</b> 4877622	<b>Description / Location:</b> Tan Duct Mastic; Bldg 322			
<b>Client No.:</b> 80-SC5-242	RR 26 On Duct Work Seams			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877623	<b>Description / Location:</b> Tan Duct Mastic; Bldg 322			
<b>Client No.:</b> 80-SC5-243	RR21 Duct Work Seams			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation** NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** B. Hargrove

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877624	<b>Description / Location:</b> Tan Duct Mastic; Bldg 322			
<b>Client No.:</b> 80-SC5-244	RR26 Duct Work Seams			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877625	<b>Description / Location:</b> Grey Duct Mastic; Bldg 322-RR 26			
<b>Client No.:</b> 81-SC5-245	On Duct Work Seams, Above DTC			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877626	<b>Description / Location:</b> Grey Duct Mastic; Bldg 322-RR 21			
<b>Client No.:</b> 81-SC5-246	On Duct Work Seams, Above DTC			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877627	<b>Description / Location:</b> Grey Duct Mastic; Bldg 322-RR 26			
<b>Client No.:</b> 81-SC5-247	On Duct Work Seams, Above DTC			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation** NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** B. Hargrove

**Date:** 12/31/2012





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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877628	<b>Description / Location:</b>	Off-White Duct Mastic	
<b>Client No.:</b>	82-SC5-248		Bldg322-RR21 Duct NWC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877628	<b>Description / Location:</b>	Off-White/Silver Duct Wrap	<b>Layer No.:</b>	2
<b>Client No.:</b>	82-SC5-248		Bldg322-RR21 Duct NWC		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	40	Cellulose	45	
		15	Fibrous Glass		

<b>Lab No.:</b>	4877629	<b>Description / Location:</b>	Off-White Duct Mastic	
<b>Client No.:</b>	82-SC5-249		Bldg322-RR21 Duct NWC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877629	<b>Description / Location:</b>	Off-White/Silver Duct Wrap	<b>Layer No.:</b>	2
<b>Client No.:</b>	82-SC5-249		Bldg322-RR21 Duct NWC		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	40	Cellulose	45	
		15	Fibrous Glass		

**Accreditation****NIST-NVLAP No. 101165-0****NY-DOH No. 11021****AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

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**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** B. Hargrove**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

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Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877630	<b>Description / Location:</b>	Off-White Duct Mastic	
<b>Client No.:</b>	82-SC5-250		Bldg322-RR21 Duct NWC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877630	<b>Description / Location:</b>	Off-White/Silver Duct Wrap	<b>Layer No.:</b> 2
<b>Client No.:</b>	82-SC5-250		Bldg322-RR21 Duct NWC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	45
		15	Fibrous Glass	

<b>Lab No.:</b>	4877631	<b>Description / Location:</b>	Grey Insulation; Spray-On Fireproofing	
<b>Client No.:</b>	83-FP1-251		Bldg 322-RR 26-SW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	85	Fibrous Glass	15

<b>Lab No.:</b>	4877632	<b>Description / Location:</b>	Grey Insulation; Spray-On Fireproofing	
<b>Client No.:</b>	83-FP1-252		Bldg 322-RR 26-SW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	85	Fibrous Glass	15

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** B. Hargrove

**Date:** 12/31/2012



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611 Lunken Park Drive  
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**Report Date:** 12/31/2012  
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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877633	<b>Description / Location:</b>	Grey Insulation; Spray-On Fireproofing	
<b>Client No.:</b>	83-FP1-253		Bldg 322-RR 26-SW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	85	Fibrous Glass	15

<b>Lab No.:</b>	4877634	<b>Description / Location:</b>	Red Putty; Firestop	
<b>Client No.:</b>	84-FP5-254		Bldg330-Corridor C1-7; SWall,13'EOfWWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95

<b>Lab No.:</b>	4877635	<b>Description / Location:</b>	Red Putty; Firestop	
<b>Client No.:</b>	84-FP5-255		Bldg330-Corridor C1-7; SWall,13'EOfWWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95

<b>Lab No.:</b>	4877636	<b>Description / Location:</b>	Red Putty; Firestop	
<b>Client No.:</b>	84-FP5-256		Bldg330-Corridor C1-7; SWall,13'EOfWWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** B. Hargrove

**Date:** 12/31/2012



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**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877637	<b>Description / Location:</b>	White/Grey Insulation; Spray-OnFireproof	
<b>Client No.:</b>	85-FP1-257		Bldg 330; RR 1A-107-W Wall, 4'NOF S Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	25	Cellulose	75

<b>Lab No.:</b>	4877638	<b>Description / Location:</b>	White/Grey Insulation; Spray-OnFireproof	
<b>Client No.:</b>	85-FP1-258		Bldg330;RR1A-108-ColumnNOFSinks,AboveDCT	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	25	Cellulose	75

<b>Lab No.:</b>	4877639	<b>Description / Location:</b>	White/Grey Insulation; Spray-OnFireproof	
<b>Client No.:</b>	85-FP1-259		Bldg330;RR1D-111-BeamAboveAirVentDuct	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	25	Cellulose	75

<b>Lab No.:</b>	4877640	<b>Description / Location:</b>	Grey Plaster; Bldg 330	
<b>Client No.:</b>	86-CP5-260		RR 2C-126 Top Side Of Shower Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** B. Hargrove

**Date:** 12/31/2012



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611 Lunken Park Drive  
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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877641	<b>Description / Location:</b>	Grey Plaster; Bldg 330		
<b>Client No.:</b>	86-CP5-261		RR 2C-126 Top Side Of Shower Ceiling		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	Trace	Cellulose	100	

<b>Lab No.:</b>	4877642	<b>Description / Location:</b>	Grey Plaster; Bldg 330		
<b>Client No.:</b>	86-CP5-262		RR 2C-126 Top Side Of Shower Ceiling		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	Trace	Cellulose	100	

<b>Lab No.:</b>	4877643	<b>Description / Location:</b>	White Duct Caulk		
<b>Client No.:</b>	87-CA5-263		Bldg 330-RR 4A-109 At Duct Seam		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877644	<b>Description / Location:</b>	White Duct Caulk		
<b>Client No.:</b>	87-CA5-264		Bldg 330-RR 4A-109 At Duct Seam		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** B. Hargrove

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877645	<b>Description / Location:</b>	White Duct Caulk	
<b>Client No.:</b>	87-CA5-265		Bldg 330-RR 4A-109 At Duct Seam	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877646	<b>Description / Location:</b>	Grey/White Ceiling Tile; 2x4	
<b>Client No.:</b>	88-CT4-266		Bldg 330-HAC 1A-106 E Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Fibrous Glass	15
		25	Cellulose	

<b>Lab No.:</b>	4877647	<b>Description / Location:</b>	Grey/White Ceiling Tile; 2x4	
<b>Client No.:</b>	88-CT4-267		Bldg 330-HAC 1A-106 E Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	65	Fibrous Glass	15
		20	Cellulose	

<b>Lab No.:</b>	4877648	<b>Description / Location:</b>	Grey/White Ceiling Tile; 2x4	
<b>Client No.:</b>	88-CT4-268		Bldg 330-HAC 1A-106 E Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Fibrous Glass	20
		20	Cellulose	

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**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Date:** 12/31/2012



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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877649	<b>Description / Location:</b>	Grey/White Ceiling Tile; 2x4	
<b>Client No.:</b>	89-CT4-269		Bldg 330-HAC 1A-106 NWC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Fibrous Glass	20
		40	Cellulose	

<b>Lab No.:</b>	4877651	<b>Description / Location:</b>	Grey/White Ceiling Tile; 2x4	
<b>Client No.:</b>	89-CT4-270		Bldg 330-HAC 1A-106 NWC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Fibrous Glass	20
		40	Cellulose	

<b>Lab No.:</b>	4877651	<b>Description / Location:</b>	Grey/White Ceiling Tile; 2x4	
<b>Client No.:</b>	89-CT4-271		Bldg 330-HAC 1A-106 NWC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Fibrous Glass	20
		40	Cellulose	

<b>Lab No.:</b>	4877652	<b>Description / Location:</b>	Grey/White Ceiling Tile; 2x4; Bldg 330	
<b>Client No.:</b>	90-CT4-272		RR 1C-115	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	55	Fibrous Glass	15
		30	Cellulose	

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:** 12/31/2012



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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877653	<b>Description / Location:</b>	Grey/White Ceiling Tile; 2x4; Bldg 330	
<b>Client No.:</b>	90-CT4-273		RR 1D-111	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	55	Fibrous Glass	15
		30	Cellulose	

<b>Lab No.:</b>	4877654	<b>Description / Location:</b>	Grey/White Ceiling Tile; 2x4; Bldg 330	
<b>Client No.:</b>	90-CT4-274		Corridor C1-7	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	55	Fibrous Glass	15
		30	Cellulose	

<b>Lab No.:</b>	4877655	<b>Description / Location:</b>	Grey/White Ceiling Tile; 2x4; Bldg 330	
<b>Client No.:</b>	91-CT4-275		RR BC-103 Drop Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	75	Cellulose	20
		5	Fibrous Glass	

<b>Lab No.:</b>	4877656	<b>Description / Location:</b>	Grey/White Ceiling Tile; 2x4; Bldg 330	
<b>Client No.:</b>	91-CT4-276		RR 2A-125 Drop Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	75	Cellulose	20
		5	Fibrous Glass	

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** B. Hargrove

**Date:** 12/31/2012





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**Report Date:** 12/31/2012  
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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877657	<b>Description / Location:</b> Grey/White Ceiling Tile; 2x4; Bldg 330			
<b>Client No.:</b> 91-CT4-277	RR BC-103 Drop Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	80	Cellulose	18
		2	Fibrous Glass	

<b>Lab No.:</b> 4877658	<b>Description / Location:</b> Grey Cementitious Wall			
<b>Client No.:</b> 92-CP5-278	Bldg 330-RR 2C-126 Shower Walls			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Fibrous Glass	98
		Trace	Cellulose	

<b>Lab No.:</b> 4877659	<b>Description / Location:</b> Grey Cementitious Wall			
<b>Client No.:</b> 92-CP5-279	Bldg 330-RR 2C-126 Shower Walls			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Fibrous Glass	98
		Trace	Cellulose	

<b>Lab No.:</b> 4877660	<b>Description / Location:</b> Grey Cementitious Wall			
<b>Client No.:</b> 92-CP5-280	Bldg 330-RR 2C-126 Shower Walls			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Fibrous Glass	98

**Accreditation** NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** B. Hargrove

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877661	<b>Description / Location:</b>	TanSprinklerSysPipeFittingMastic;Bldg330	
<b>Client No.:</b>	93-SC5-281		RR 1D-111-Above DCT, PipeWofAirDuctVent	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Wollastonite	90

<b>Lab No.:</b>	4877662	<b>Description / Location:</b>	TanSprinklerSysPipeFittingMastic;Bldg330	
<b>Client No.:</b>	93-SC5-282		RR 2C-126-Above DCT, S Of Shower	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Wollastonite	90

<b>Lab No.:</b>	4877663	<b>Description / Location:</b>	TanSprinklerSysPipeFittingMastic;Bldg330	
<b>Client No.:</b>	93-SC5-283		RR 2A-125-Above DCT, Sprinkler Pipe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Wollastonite	90

<b>Lab No.:</b>	4877664	<b>Description / Location:</b>	Tan Duct Mastic; Bldg 330	
<b>Client No.:</b>	94-SC5-284		RR 1A-108 AboveDCTAtDuctSeams	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** T. Lowe

**Date:** 12/31/2012



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611 Lunken Park Drive  
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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877665	<b>Description / Location:</b>	Tan Duct Mastic; Bldg 330-RR 2C-126	
<b>Client No.:</b>	94-SC5-285		AboveDCTAtDuctSeams	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877666	<b>Description / Location:</b>	Tan Duct Mastic; Bldg 330	
<b>Client No.:</b>	94-SC5-286		RR 1C-115 AboveDCTAtDuctSeams	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877667	<b>Description / Location:</b>	Tan/Silver Mastic/Duct Tape	
<b>Client No.:</b>	95-SC5-287		Bldg 330-RR 1D-111 AboveDCT At DuctSeams	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Synthetic	80

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** T. Lowe

**Date:** 12/31/2012



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	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877668	<b>Description / Location:</b>	Tan/Silver Mastic/Duct Tape	
<b>Client No.:</b>	95-SC5-288		Bldg 330-RR 1D-111 AboveDCT At DuctSeams	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Synthetic	80

<b>Lab No.:</b>	4877668	<b>Description / Location:</b>	White Mineral Mix	<b>Layer No.:</b>	2
<b>Client No.:</b>	95-SC5-288		Bldg 330-RR 1D-111 AboveDCT At DuctSeams		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877669	<b>Description / Location:</b>	Tan/Silver Mastic/Duct Tape	
<b>Client No.:</b>	95-SC5-289		Bldg 330-RR 1D-111 AboveDCT At DuctSeams	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Synthetic	80

<b>Lab No.:</b>	4877670	<b>Description / Location:</b>	White Ceiling Tile; 2x4	
<b>Client No.:</b>	96-CT4-290		Bldg 330-RR 5A-108 Drop Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	75	Fibrous Glass	25

**Accreditation****NIST-NVLAP No. 101165-0****NY-DOH No. 11021****AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** T. Lowe**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877671	<b>Description / Location:</b> White Ceiling Tile; 2x4			
<b>Client No.:</b> 96-CT4-291	Bldg 330-RR 5A-108 Drop Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	75	Fibrous Glass	25

<b>Lab No.:</b> 4877672	<b>Description / Location:</b> White Ceiling Tile; 2x4			
<b>Client No.:</b> 96-CT4-292	Bldg 330-RR 5A-108 Drop Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	75	Fibrous Glass	25

<b>Lab No.:</b> 4877673	<b>Description / Location:</b> Brown Foam			
<b>Client No.:</b> 97-PM5-293	Bldg 330-HAC 1A-106 Cold Water Pipe			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877673	<b>Description / Location:</b> White Paper	<b>Layer No.:</b> 2		
<b>Client No.:</b> 97-PM5-293	Bldg 330-HAC 1A-106 Cold Water Pipe			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Fibrous Glass	30
		60	Cellulose	

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** T. Lowe

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877674	<b>Description / Location:</b>	Brown Foam	
<b>Client No.:</b>	97-PM5-294		Bldg 330-HAC 1A-106 Cold Water Pipe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877674	<b>Description / Location:</b>	White Paper	<b>Layer No.:</b>	2
<b>Client No.:</b>	97-PM5-294		Bldg 330-HAC 1A-106 Cold Water Pipe		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	10	Fibrous Glass	30	
		60	Cellulose		

<b>Lab No.:</b>	4877675	<b>Description / Location:</b>	Brown Foam	
<b>Client No.:</b>	97-PM5-295		Bldg 330-HAC 1A-106 Cold Water Pipe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877675	<b>Description / Location:</b>	White Paper	<b>Layer No.:</b>	2
<b>Client No.:</b>	97-PM5-295		Bldg 330-HAC 1A-106 Cold Water Pipe		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	10	Fibrous Glass	30	
		60	Cellulose		

<b>Accreditation</b>	<b>NIST-NVLAP No. 101165-0</b>	<b>NY-DOH No. 11021</b>	<b>AIHA-LAP, LLC No. 100188</b>
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<b>Analytical Method:</b>	EPA 600/R-93/116, by Polarized Light Microscopy
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**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:** 12/31/2012



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<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877676	<b>Description / Location:</b>	Yellow Mastic; Bldg 330	
<b>Client No.:</b>	98-MG5-296		RR 1D-110 S Wall Of Toilet Stalls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877676	<b>Description / Location:</b>	White Mineral Mix; Bldg 330	<b>Layer No.:</b>	2
<b>Client No.:</b>	98-MG5-296		RR 1D-110 S Wall Of Toilet Stalls		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877677	<b>Description / Location:</b>	Yellow Mastic; Bldg 330	
<b>Client No.:</b>	98-MG5-297		RR BC-102 E Wall Behind Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877677	<b>Description / Location:</b>	White Mineral Mix/Paper; Bldg 330	<b>Layer No.:</b>	2
<b>Client No.:</b>	98-MG5-297		RR BC-102 E Wall Behind Door		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	50	Cellulose	50	

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877678	<b>Description / Location:</b>	White Mastic; Bldg 330	
<b>Client No.:</b>	98-MG5-298		RR 1D-110 S Wall Of Toilet Stalls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877678	<b>Description / Location:</b>	White Mineral Mix; Bldg 330	<b>Layer No.:</b> 2
<b>Client No.:</b>	98-MG5-298		RR 1D-110 S Wall Of Toilet Stalls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877679	<b>Description / Location:</b>	Grey Grout; Bldg 330	
<b>Client No.:</b>	99-MA8-299		RR BC-102 E Wall Behind Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877680	<b>Description / Location:</b>	Grey Grout; Bldg 330-RR 1D-110	
<b>Client No.:</b>	99-MA8-300		S Wall Of Toilet Stalls	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Accreditation</b>	<b>NIST-NVLAP No. 101165-0</b>	<b>NY-DOH No. 11021</b>	<b>AIHA-LAP, LLC No. 100188</b>
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<b>Analytical Method:</b>	EPA 600/R-93/116, by Polarized Light Microscopy
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**Date:** 12/31/2012





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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877681	<b>Description / Location:</b>	Grey Grout; Bldg 330	
<b>Client No.:</b>	99-MA8-301		RR BC-102 E Wall Behind Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877682	<b>Description / Location:</b>	Brown Grout	
<b>Client No.:</b>	100-MA8-302		Bldg330-RR 1D-111 S Wall Sink Recess	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877682	<b>Description / Location:</b>	Tan Ceramic Floor Tile	<b>Layer No.:</b> 2
<b>Client No.:</b>	100-MA8-302		Bldg330-RR 1D-111 S Wall Sink Recess	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877682	<b>Description / Location:</b>	Tan Mastic	<b>Layer No.:</b> 3
<b>Client No.:</b>	100-MA8-302		Bldg330-RR 1D-111 S Wall Sink Recess	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

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**Comments:**

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611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877683	<b>Description / Location:</b>	Brown Grout	
<b>Client No.:</b>	100-MA8-303		Bldg330-HAC 1A-106 W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877684	<b>Description / Location:</b>	Brown Grout	
<b>Client No.:</b>	100-MA8-303		Bldg330-RR 1D-110 Doorway	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877685	<b>Description / Location:</b>	White Grout; Bldg 330	
<b>Client No.:</b>	101-MA8-305		HAC1A-106 S Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877686	<b>Description / Location:</b>	White Grout; Bldg 330	
<b>Client No.:</b>	101-MA8-306		HAC1A-106 S Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877687	<b>Description / Location:</b>	White Grout; Bldg 330	
<b>Client No.:</b>	101-MA8-307		HAC1A-106 S Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877688	<b>Description / Location:</b>	Off-White Ceramic Wall Tile; 4x4	
<b>Client No.:</b>	102-MG5-308		Bldg 330-HAC 1A-106; SWall, 1' W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877688	<b>Description / Location:</b>	Tan Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	102-MG5-308		Bldg 330-HAC 1A-106; SWall, 1' W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877688	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b> 3
<b>Client No.:</b>	102-MG5-308		Bldg 330-HAC 1A-106; SWall, 1' W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

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**Analytical Method:**

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**Comments:**

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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877689	<b>Description / Location:</b>	Off-White Ceramic Wall Tile; 4x4	
<b>Client No.:</b>	102-MG5-309		Bldg 330-HAC 1A-106; SWall, 1' W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877689	<b>Description / Location:</b>	Tan Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	102-MG5-309		Bldg 330-HAC 1A-106; SWall, 1' W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877689	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b> 3
<b>Client No.:</b>	102-MG5-309		Bldg 330-HAC 1A-106; SWall, 1' W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877689D	<b>Description / Location:</b>	White Grout	
<b>Client No.:</b>	102-MG5-309		Bldg 330-HAC 1A-106; SWall, 1' W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** T. Lowe

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877690	<b>Description / Location:</b>	Off-White Ceramic Wall Tile; 4x4	
<b>Client No.:</b>	102-MG5-310		Bldg 330-HAC 1A-106; SWall, 1' W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877690	<b>Description / Location:</b>	Tan Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	102-MG5-310		Bldg 330-HAC 1A-106; SWall, 1' W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877690	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b> 3
<b>Client No.:</b>	102-MG5-310		Bldg 330-HAC 1A-106; SWall, 1' W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877691	<b>Description / Location:</b>	White Mortar	
<b>Client No.:</b>	103-MA7-311		Bldg 330-HAC 1A-106; At Corner W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** T. Lowe

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877692	<b>Description / Location:</b>	White Mortar	
<b>Client No.:</b>	103-MA7-312		Bldg 330-HAC 1A-106; At Corner W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877693	<b>Description / Location:</b>	White Mortar	
<b>Client No.:</b>	103-MA7-313		Bldg 330-HAC 1A-106; At Corner W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877694	<b>Description / Location:</b>	Tan Ceramic Floor Tile 1x1	
<b>Client No.:</b>	104-MG5-314		Bldg 330-HAC 1A-106; At Corner W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877694	<b>Description / Location:</b>	Tan Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	104-MG5-314		Bldg 330-HAC 1A-106; At Corner W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** T. Lowe

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877695	<b>Description / Location:</b>	Tan Ceramic Floor Tile 1x1	
<b>Client No.:</b>	104-MG5-315		Bldg 330-HAC 1A-106; At Corner W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877695	<b>Description / Location:</b>	Tan Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	104-MG5-315		Bldg 330-HAC 1A-106; At Corner W Of Door		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877696	<b>Description / Location:</b>	Tan Ceramic Floor Tile 1x1	
<b>Client No.:</b>	104-MG5-316		Bldg 330-HAC 1A-106; At Corner W Of Door	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877696	<b>Description / Location:</b>	Tan Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	104-MG5-316		Bldg 330-HAC 1A-106; At Corner W Of Door		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Accreditation</b>	<b>NIST-NVLAP No. 101165-0</b>	<b>NY-DOH No. 11021</b>	<b>AIHA-LAP, LLC No. 100188</b>
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<b>Analytical Method:</b>	EPA 600/R-93/116, by Polarized Light Microscopy
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**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877697	<b>Description / Location:</b>	Tan Grout; Bldg 330-RR 5A-108	
<b>Client No.:</b>	105-MA8-317		A/W 5x5 Ceramic Wall Tile, NE Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877698	<b>Description / Location:</b>	Tan Grout; Bldg 330-RR 5A-108	
<b>Client No.:</b>	105-MA8-318		A/W 5x5 Ceramic Wall Tile, NE Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877699	<b>Description / Location:</b>	Tan Grout; Bldg 330-RR 5A-108	
<b>Client No.:</b>	105-MA8-319		A/W 5x5 Ceramic Wall Tile, NE Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** T. Lowe

**Date:** 12/31/2012





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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877700	<b>Description / Location:</b>	White Mortar	
<b>Client No.:</b>	106-MA7-320		Bldg 330-RR 5A-108; NE Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877700	<b>Description / Location:</b>	Off-White Ceramic Wall Tile; 5x5		<b>Layer No.:</b>	2
<b>Client No.:</b>	106-MA7-320		Bldg 330-RR 5A-108; NE Corner			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>		
None Detected	None Detected	None Detected	None Detected	100		

<b>Lab No.:</b>	4877700	<b>Description / Location:</b>	Lt.Blue Mineral Mix		<b>Layer No.:</b>	3
<b>Client No.:</b>	106-MA7-320		Bldg 330-RR 5A-108; NE Corner			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>		
None Detected	None Detected	None Detected	None Detected	100		

<b>Lab No.:</b>	4877700D	<b>Description / Location:</b>	Pink Mineral Mix			
<b>Client No.:</b>	106-MA7-320		Bldg 330-RR 5A-108; NE Corner			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>		
None Detected	None Detected	None Detected	None Detected	100		

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** T. Lowe

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877701	<b>Description / Location:</b>	White Mortar; A/W 5x5 Ceramic Wall Tile	
<b>Client No.:</b>	106-MA7-321		Bldg 330-RR 5A-108; NE Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877701	<b>Description / Location:</b>	Lt.Blue Mineral Mix	<b>Layer No.:</b>	2
<b>Client No.:</b>	106-MA7-321		Bldg 330-RR 5A-108; NE Corner		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877702	<b>Description / Location:</b>	White Mortar; A/W 5x5 Ceramic Wall Tile	
<b>Client No.:</b>	106-MA7-322		Bldg 330-RR 5A-108; NE Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877702	<b>Description / Location:</b>	Lt.Blue Mineral Mix	<b>Layer No.:</b>	2
<b>Client No.:</b>	106-MA7-322		Bldg 330-RR 5A-108; NE Corner		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

#### Accreditation

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

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#### Analytical Method:

EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

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**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877703	<b>Description / Location:</b> Grey Sheetrock			
<b>Client No.:</b> 107-WB1-323	Bldg 330-RR 6A-109 W Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	96
		2	Fibrous Glass	

<b>Lab No.:</b> 4877703	<b>Description / Location:</b> White Joint Compound	<b>Layer No.:</b> 2		
<b>Client No.:</b> 107-WB1-323	Bldg 330-RR 6A-109 W Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877703	<b>Description / Location:</b> White Joint Compound	<b>Layer No.:</b> 3		
<b>Client No.:</b> 107-WB1-323	Bldg 330-RR 6A-109 W Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation** NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877703D	<b>Description / Location:</b>	Composite	
<b>Client No.:</b>	107-WB1-323		Bldg 330-RR 6A-109 W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	98
		1	Fibrous Glass	

<b>Lab No.:</b>	4877703D	<b>Description / Location:</b>	White Paper Tape	<b>Layer No.:</b>	2
<b>Client No.:</b>	107-WB1-323		Bldg 330-RR 6A-109 W Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	90	Cellulose	10	

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** T. Lowe

**Date:** 12/31/2012



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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877704	<b>Description / Location:</b> Grey Sheetrock			
<b>Client No.:</b> 107-WB1-324	Bldg 330-RR 9A-109 W Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	96
		2	Fibrous Glass	

<b>Lab No.:</b> 4877704	<b>Description / Location:</b> White Joint Compound	<b>Layer No.:</b> 2		
<b>Client No.:</b> 107-WB1-324	Bldg 330-RR 9A-109 W Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877704	<b>Description / Location:</b> White Joint Compound	<b>Layer No.:</b> 3		
<b>Client No.:</b> 107-WB1-324	Bldg 330-RR 9A-109 W Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation** NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877704D	<b>Description / Location:</b>	Composite	
<b>Client No.:</b>	107-WB1-324		Bldg 330-RR 9A-109 W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	98
		1	Fibrous Glass	

<b>Lab No.:</b>	4877704D	<b>Description / Location:</b>	White Paper Tape	<b>Layer No.:</b>	2
<b>Client No.:</b>	107-WB1-324		Bldg 330-RR 9A-109 W Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	90	Cellulose	10	

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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877705	<b>Description / Location:</b>	Grey Sheetrock	
<b>Client No.:</b>	107-WB1-325		Bldg 330-RR 6A-109 W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	96
		2	Fibrous Glass	

<b>Lab No.:</b>	4877705	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	107-WB1-325		Bldg 330-RR 6A-109 W Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877705	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	3
<b>Client No.:</b>	107-WB1-325		Bldg 330-RR 6A-109 W Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

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#### Analytical Method:

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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877705D	<b>Description / Location:</b>	Composite	
<b>Client No.:</b>	107-WB1-325		Bldg 330-RR 6A-109 W Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	98
		1	Fibrous Glass	

<b>Lab No.:</b>	4877705D	<b>Description / Location:</b>	White Paper Tape	<b>Layer No.:</b>	2
<b>Client No.:</b>	107-WB1-325		Bldg 330-RR 6A-109 W Wall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	90	Cellulose	10	

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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877706	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	108-WB1-326		Bldg330;CorridorC1-7 SWall,13'E Of WWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	78
		2	Fibrous Glass	

<b>Lab No.:</b>	4877706	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	108-WB1-326		Bldg330;CorridorC1-7 SWall,13'E Of WWall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877706	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	108-WB1-326		Bldg330;CorridorC1-7 SWall,13'E Of WWall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	20	Cellulose	78	
		2	Fibrous Glass		

#### Accreditation

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NY-DOH No. 11021

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#### Analytical Method:

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#### Comments:

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**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877707	<b>Description / Location:</b> Lt.Tan Sheetrock			
<b>Client No.:</b> 108-WB1-327	Bldg330;RR2A-125NWall,2'WOfeWall,AbvDCT			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

<b>Lab No.:</b> 4877707	<b>Description / Location:</b> White Joint Compound	<b>Layer No.:</b> 2		
<b>Client No.:</b> 108-WB1-327	Bldg330;RR2A-125NWall,2'WOfeWall,AbvDCT			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877707	<b>Description / Location:</b> Composite	<b>Layer No.:</b> 3		
<b>Client No.:</b> 108-WB1-327	Bldg330;RR2A-125NWall,2'WOfeWall,AbvDCT			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

<b>Lab No.:</b> 4877708	<b>Description / Location:</b> Lt.Tan Sheetrock			
<b>Client No.:</b> 108-WB1-328	Bldg 330; BC-102 NE Corner			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	83
		2	Fibrous Glass	

**Accreditation**

**NIST-NVLAP No. 101165-0**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877709	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	108-WB1-329		Bldg330; RR 1D-111 Entry NWall Above DCT	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

<b>Lab No.:</b>	4877709	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	108-WB1-329		Bldg330; RR 1D-111 Entry NWall Above DCT		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877709	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	108-WB1-329		Bldg330; RR 1D-111 Entry NWall Above DCT		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	20	Cellulose	80	

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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877710	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	108-WB1-330		Bldg330; RR 2C-126 WWall At S ShowerEdge	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

<b>Lab No.:</b>	4877710	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	108-WB1-330		Bldg330; RR 2C-126 WWall At S ShowerEdge		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877710	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	108-WB1-330		Bldg330; RR 2C-126 WWall At S ShowerEdge		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	10	Cellulose	90	

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### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877711	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	108-WB1-331		Bldg330; RR 4A-109 WWall,AbvSink,AbvDCT	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	83
		2	Fibrous Glass	

<b>Lab No.:</b>	4877711	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	108-WB1-331		Bldg330; RR 4A-109 WWall,AbvSink,AbvDCT		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877711	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	108-WB1-331		Bldg330; RR 4A-109 WWall,AbvSink,AbvDCT		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	15	Cellulose	83	
		2	Fibrous Glass		

#### Accreditation

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

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#### Analytical Method:

EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877712	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	108-WB1-332		Bldg330; RR 5A-108NECornerBehindWallTile	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Cellulose	99

<b>Lab No.:</b>	4877712	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	108-WB1-332		Bldg330; RR 5A-108NECornerBehindWallTile		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877712	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	108-WB1-332		Bldg330; RR 5A-108NECornerBehindWallTile		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	1	Cellulose	99	

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877713	<b>Description / Location:</b>	Lt.Tan Sheetrock	
<b>Client No.:</b>	108-WB1-333		Bldg330; Corridor C1-7 SWall,10'EOfWWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	88
		2	Fibrous Glass	

<b>Lab No.:</b>	4877713	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	108-WB1-333		Bldg330; Corridor C1-7 SWall,10'EOfWWall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877713	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	108-WB1-333		Bldg330; Corridor C1-7 SWall,10'EOfWWall		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	10	Cellulose	88	
		2	Fibrous Glass		

<b>Lab No.:</b>	4877714	<b>Description / Location:</b>	Black/Tan Paper		
<b>Client No.:</b>	109-WB5-334		Bldg330-RR 7A-109; WWallAboveDCT		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	100	Cellulose	None Detected	

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**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** E. Smith

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

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611 Lunken Park Drive  
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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4877715	<b>Description / Location:</b> Black/Tan Paper			
<b>Client No.:</b> 109-WB5-335	Bldg330-RR 7A-109; WWallAboveDCT			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

<b>Lab No.:</b> 4877716	<b>Description / Location:</b> Black/Tan Paper			
<b>Client No.:</b> 109-WB5-336	Bldg330-RR 7A-109; WWallAboveDCT			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

<b>Lab No.:</b> 4877717	<b>Description / Location:</b> Lt.Tan Floor Tile; 12x12			
<b>Client No.:</b> 110-FT2, MG2-337	Bldg340-104HallAccess; NWall, l'EOFWall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4877717	<b>Description / Location:</b> Yellow/Black Mastic	<b>Layer No.:</b> 2		
<b>Client No.:</b> 110-FT2, MG2-337	Bldg340-104HallAccess; NWall, l'EOFWall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** L. Solebello

**Date:** 12/31/2012





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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877718	<b>Description / Location:</b>	Lt.Tan Floor Tile; 12x12	
<b>Client No.:</b>	110-FT2,MG2-338		Bldg340-104HallAccess; NWWall,1'EOFWWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877718	<b>Description / Location:</b>	Yellow/Black Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	110-FT2,MG2-338		Bldg340-104HallAccess; NWWall,1'EOFWWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877719	<b>Description / Location:</b>	Lt.Tan Floor Tile; 12x12	
<b>Client No.:</b>	110-FT2,MG2-339		Bldg340-104HallAccess; NWWall,1'EOFWWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877719	<b>Description / Location:</b>	Yellow/Black Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	110-FT2,MG2-339		Bldg340-104HallAccess; NWWall,1'EOFWWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** L. Solebello

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877720	<b>Description / Location:</b>	White/Tan Ceiling Tile; 2x2	
<b>Client No.:</b>	111-CT3-340		Bldg340-RR 104; 3'NOFSWall&6'WOFEWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	30
		35	Fibrous Glass	

<b>Lab No.:</b>	4877721	<b>Description / Location:</b>	White/Tan Ceiling Tile; 2x2	
<b>Client No.:</b>	111-CT3-341		Bldg340-RR 104; 2'S Of N & 4' W Of EWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	30
		35	Fibrous Glass	

<b>Lab No.:</b>	4877722	<b>Description / Location:</b>	White/Tan Ceiling Tile; 2x2	
<b>Client No.:</b>	111-CT3-342		Bldg340-RR 104; 3'NOFSWall & 6'WOFEWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	30
		35	Fibrous Glass	

<b>Lab No.:</b>	4877723	<b>Description / Location:</b>	White/Tan Ceiling Tile; 2x2	
<b>Client No.:</b>	112-CT3-343		Bldg340-RR 103; 2'N Of SWall&4'EOf WWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	30
		35	Fibrous Glass	

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:** 12/31/2012



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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877724	<b>Description / Location:</b>	White/Tan Ceiling Tile; 2x2	
<b>Client No.:</b>	112-CT3-344		Bldg340-RR 103; 2'N Of SWall&4'EOf WWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	30
		35	Fibrous Glass	

<b>Lab No.:</b>	4877725	<b>Description / Location:</b>	White/Tan Ceiling Tile; 2x2	
<b>Client No.:</b>	112-CT3-345		Bldg340-RR 103; 2'N Of SWall&4'EOf WWall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	30
		35	Fibrous Glass	

<b>Lab No.:</b>	4877726	<b>Description / Location:</b>	Tan Cove Base; 4"	
<b>Client No.:</b>	113-FC3,MG3-346		Bldg 340-104 Hall Access; SW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877726	<b>Description / Location:</b>	Lt.Tan Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	113-FC3,MG3-346		Bldg 340-104 Hall Access; SW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Terracon	<b>Report Date:</b>	12/31/2012
	611 Lunken Park Drive	<b>Report No:</b>	293190
	Cincinnati OH 45226	<b>Project:</b>	Dayton VA-Renovate Restroom
		<b>Project No.:</b>	N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877727	<b>Description / Location:</b>	Lt.Tan Cove Base; 4"	
<b>Client No.:</b>	113-FC3,MG3-347		Bldg 340-104 Hall Access; SW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877727	<b>Description / Location:</b>	Lt.Tan Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	113-FC3,MG3-347		Bldg 340-104 Hall Access; SW Corner		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877728	<b>Description / Location:</b>	Lt.Tan Cove Base; 4"	
<b>Client No.:</b>	113-FC3,MG3-348		Bldg 340-104 Hall Access; SW Corner	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877728	<b>Description / Location:</b>	Lt.Tan Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	113-FC3,MG3-348		Bldg 340-104 Hall Access; SW Corner		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Accreditation</b>	<b>NIST-NVLAP No. 101165-0</b>	<b>NY-DOH No. 11021</b>	<b>AIHA-LAP, LLC No. 100188</b>
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<b>Analytical Method:</b>	EPA 600/R-93/116, by Polarized Light Microscopy
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**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** L. Solebello

**Date:** 12/31/2012



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## CERTIFICATE OF ANALYSIS

**Client:** Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877729	<b>Description / Location:</b>	White/Tan Sheetrock	
<b>Client No.:</b>	114-WB1-349		Bldg 340-RR 103 E Wall, NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	12	Cellulose	85
		3	Fibrous Glass	

<b>Lab No.:</b>	4877729	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	114-WB1-349		Bldg 340-RR 103 E Wall, NEC		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877729	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	114-WB1-349		Bldg 340-RR 103 E Wall, NEC		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	12	Cellulose	85	
		3	Fibrous Glass		

#### Accreditation

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

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#### Analytical Method:

EPA 600/R-93/116, by Polarized Light Microscopy

#### Comments:

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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877730	<b>Description / Location:</b>	Off-White/Tan Sheetrock	
<b>Client No.:</b>	114-WB1-350		Bldg 340-RR 104 SEC Above Sink	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	60

<b>Lab No.:</b>	4877730	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	114-WB1-350		Bldg 340-RR 104 SEC Above Sink		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877730	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	114-WB1-350		Bldg 340-RR 104 SEC Above Sink		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	35	Cellulose	65	

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#### Comments:

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**Date:** 12/31/2012



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**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877731	<b>Description / Location:</b>	White/Tan Sheetrock	
<b>Client No.:</b>	114-WB1-351		Bldg 340-RR 103 E Wall, NEC	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Cellulose	70
		Trace	Fibrous Glass	

<b>Lab No.:</b>	4877731	<b>Description / Location:</b>	White Joint Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	114-WB1-351		Bldg 340-RR 103 E Wall, NEC		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877731	<b>Description / Location:</b>	Composite	<b>Layer No.:</b>	3
<b>Client No.:</b>	114-WB1-351		Bldg 340-RR 103 E Wall, NEC		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	25	Cellulose	75	
		Trace	Fibrous Glass		

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#### Analytical Method:

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#### Comments:

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**Analysis Performed By:** L. Solebello

**Date:** 12/31/2012



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Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877732	<b>Description / Location:</b>	Grey Grout; A/W FT	
<b>Client No.:</b>	115-MA8-352		Bldg340-RR104-E Of Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877732	<b>Description / Location:</b>	White Grout; A/W FT	<b>Layer No.:</b> 2
<b>Client No.:</b>	115-MA8-352		Bldg340-RR104-E Of Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877733	<b>Description / Location:</b>	Grey Grout; A/W FT	
<b>Client No.:</b>	115-MA8-353		Bldg340-RR104-E Of Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877733	<b>Description / Location:</b>	White Grout; A/W FT	<b>Layer No.:</b> 2
<b>Client No.:</b>	115-MA8-353		Bldg340-RR104-E Of Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** L. Solebello

**Date:** 12/31/2012





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611 Lunken Park Drive  
Cincinnati OH 45226

**Report Date:** 12/31/2012  
**Report No:** 293190  
**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877734	<b>Description / Location:</b>	Grey Grout; A/W FT	
<b>Client No.:</b>	115-MA8-354		Bldg340-RR104-E Of Doorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877734	<b>Description / Location:</b>	Tan/Grey Grout; A/W FT		<b>Layer No.:</b> 2
<b>Client No.:</b>	115-MA8-354		Bldg340-RR104-E Of Doorframe		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877735	<b>Description / Location:</b>	Grey Mortar; A/W FT		
<b>Client No.:</b>	116-MA7-355		Bldg340-RR104-EOfDoorframe		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4877736	<b>Description / Location:</b>	Grey Mortar; A/W FT		
<b>Client No.:</b>	116-MA7-356		Bldg340-RR104-EOfDoorframe		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

**Accreditation**

**NIST-NVLAP No. 101165-0**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877737	<b>Description / Location:</b>	Grey Mortar; A/W FT	
<b>Client No.:</b>	116-MA7-357		Bldg340-RR104-EOfDoorframe	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877738	<b>Description / Location:</b>	Tan Grout; A/W Wall Tile	
<b>Client No.:</b>	117-MA8-358		Bldg 340-RR 103 & RR 104; SWall, EOofDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877738	<b>Description / Location:</b>	White Joint Compound; A/W Wall Tile	<b>Layer No.:</b> 2
<b>Client No.:</b>	117-MA8-358		Bldg 340-RR 103 & RR 104; SWall, EOofDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877739	<b>Description / Location:</b>	Tan Grout; A/W Wall Tile	
<b>Client No.:</b>	117-MA8-359		Bldg 340-RR 103 & RR 104; SWall, EOofDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877740	<b>Description / Location:</b>	Tan Grout; A/W Wall Tile	
<b>Client No.:</b>	117-MA8-360		Bldg 340-RR 103 & RR 104; SWall, EOfDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877741	<b>Description / Location:</b>	Off-White Mastic; A/W Wall Tile	
<b>Client No.:</b>	118-MG5-361		Bldg340-RR 103 & RR 104; S Wall, EOfDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877741	<b>Description / Location:</b>	White Joint Compound; A/W Wall Tile	<b>Layer No.:</b> 2
<b>Client No.:</b>	118-MG5-361		Bldg340-RR 103 & RR 104; S Wall, EOfDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4877742	<b>Description / Location:</b>	Off-White Mastic; A/W Wall Tile	
<b>Client No.:</b>	118-MG5-362		Bldg340-RR 103 & RR 104; S Wall, EOfDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**

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**Project:** Dayton VA-Renovate Restroom  
**Project No.:** N1127261

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4877743	<b>Description / Location:</b>	Off-White Mastic; A/W Wall Tile	
<b>Client No.:</b>	118-MG5-363		Bldg340-RR 103 & RR 104; S Wall, EOfDoor	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

#### Accreditation

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**Analysis Performed By:** L. Solebello

**Date:** 12/31/2012

**Limited Asbestos Survey**

Renovate Facility Restrooms 552-13-203 ■ Dayton VAMC  
January 14, 2013 ■ Terracon Project No. N1127261



**APPENDIX D**

**LIST OF AREAS INCLUDED IN SURVEY**

Building		Restroom	SF
120		Closet 101A	27
120		Toilet 101B	36
120		Toilet 101C	37
126		Men's Room 104	59
126		Women's Room 104A	48
126		Corridor 104B (New Work)	62
128		Men's Room 120	171
128		Shower 120A	78
131		Toilet 104	103
220		Toilet 1	38
220		Toilet 2	70
305		Women's Room 112	232
305		Vestibule 112B	52
305		Men's Room 123	198
307		Men's Room 002	91
307		Women's Room 003	78
307		Men's Room 102	91
307		Women's Room 103	80
310		Women's Restroom 1E-158	166
310		Men's Restroom 1E-158A	146
310		Storage 1E-158B	59
310		Female Toilet 2E-107	62
310		Male Toilet 2E-108	62
310		Men Toilet 2E-139	39
310		Women Toilet 2E-140	39
322		Toilet 9	59
322		Toilet 10	48
322		Dressing 10A	32
322		Toilet 21	54
322		Toilet 26	54
330		Men's Room BC-102	47
330		Women's Room BC-103	49
330		H.A.C. 1A-106	117
330		Corridor C1-7	297
330		Men's Room 1A-107	198
330		Women's Room 1A-108	198
330		Male Toilet 1D-110	198
330		Female Toilet 1D-111	187
330		Toilet 1C-115	48
330		Toilet 1C-116	53
330		Toilet 2A-124	47
330		Toilet 2A-125	48
330		Toilet 2C-125	35
330		Toilet 2C-126	83
330		Toilet 3A-117	46

330		Toilet 4A-109	42
330		Toilet 5A-108	42
330		Toilet 6A-109	42
330		Toilet 7A-108	42
330		Toilet 8A-110	42
330		Toilet 9A-109	42
340		Women's Room 103	169
340		Men's Room 104	168
340		Staff Toilet 192	44
340		Staff Toilet 193	44

**Limited Asbestos Survey**

Renovate Facility Restrooms 552-13-203 ■ Dayton VAMC  
January 14, 2013 ■ Terracon Project No. N1127261



**APPENDIX E**

**CERTIFICATIONS**



United States Department of Commerce  
National Institute of Standards and Technology



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**Certificate of Accreditation to ISO/IEC 17025:2005**

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NVLAP LAB CODE: 101165-0

**International Asbestos Testing Laboratories**  
Mt. Laurel, NJ

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

**BULK ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2012-07-01 through 2013-06-30

*Effective dates*



A handwritten signature in black ink, appearing to read "William R. Mule".

*For the National Institute of Standards and Technology*



# OHIO DEPARTMENT OF HEALTH

246 North High Street  
Columbus, Ohio 43215

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

John R. Kasich/Governor

Theodore E. Wymyslo, M.D./Director of Health

January 31, 2012

Alicia M Roberts  
Terracon  
611 Lunken Park Drive  
Cincinnati OH 45226

RE: Asbestos Hazard Evaluation Specialist  
Certification Number: ES35287  
Expiration Date: 02/18/2013

Dear Alicia M Roberts:

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 Mary Lucas, Licensure Specialist, at 614-644-0226.

Sincerely,

Bridgette C. Smith  
Licensure Program Administrator  
Bureau of Information and Operational Support





Department of Health  
Division of Quality Assurance - Asbestos Program

**Asbestos Hazard Evaluation Specialist**



**Jason Gill**  
3422 Lapland Drive  
Cincinnati OH 45239

Certification Number **ES35258** Expiration Date **12/07/2013**

DOB: 12/21/1969

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.

Department of Health  
Division of Quality Assurance - Asbestos Program

**Asbestos Hazard Abatement Specialist**



**Jason A Gill**  
3422 Lapland Drive  
Cincinnati OH 45239

Certification Number **AS30674** Expiration Date **12/07/2013**

DOB: 12/21/1969

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.



**WEST VIRGINIA**

**Asbestos Program**

**Jason Adam Gill**

IS LICENSED AS AN  
**ASBESTOS INSPECTOR**

License #: **A1006909**

Issued: **7/3/2012**

Expires: **7/31/2013**

Anthony Turner Assistant Director  
WV RTIA DIV



**WEST VIRGINIA**

**Asbestos Program**

**Jason Adam Gill**

IS LICENSED AS AN  
**ASBESTOS SUPERVISOR**

License #: **AS013078**

Issued: **7/3/2012**

Expires: **7/31/2013**

Anthony Turner Assistant Director  
WV RTIA DIV



**Indiana Dept. of Environmental Management**

**Jason A. Gill**

Asbestos Management Planner License #: 19A003431

Effective: **12/06/2012**

Birth Date: **12/21/1969**

Height: **5-10**

Weight: **240**

Expiration: **12/06/2013**

Gender: **M**

Eye Color: **Hazel**

Hair Color: **Brown**



**WEST VIRGINIA**

**Asbestos Program**

**Jason Adam Gill**

IS LICENSED AS AN  
**ASBESTOS PROJECT DESIGNER**

License #: **AD003233**

Issued: **7/3/2012**

Expires: **7/31/2013**

Anthony Turner Assistant Director  
WV RTIA DIV



**Indiana Dept. of Environmental Management**

**Jason A. Gill**

Asbestos Project Supervisor License #: 19A003474

Effective: **12/06/2012**

Birth Date: **12/21/1969**

Height: **5-10**

Weight: **240**

Expiration: **12/06/2013**

Gender: **M**

Eye Color: **Hazel**

Hair Color: **Brown**



**Indiana Dept. of Environmental Management**

**Jason A. Gill**

Asbestos Inspector License #: 19A003432

Effective: **12/06/2012**

Birth Date: **12/21/1969**

Height: **5-10**

Weight: **240**

Expiration: **12/06/2013**

Gender: **M**

Eye Color: **Hazel**

Hair Color: **Brown**

**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**  
**DIVISION FOR AIR QUALITY**

CONFIRMS THAT

**JASON A. GILL**

Has fulfilled the training requirements of 401 KAR 58:005 and is  
ACCREDITED as an

**ASBESTOS ABATEMENT SUPERVISOR**

Date Issued **10-30-12** Expires **09-26-13**

Cindy Mitchell

Cindy Mitchell  
Environmental Technologist III

No. **S12-10-2288**

John S. Lyons

John S. Lyons  
Director

**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**  
**DIVISION FOR AIR QUALITY**

CONFIRMS THAT

**JASON A. GILL**

Has fulfilled the training requirements of 401 KAR 58:005 and is  
ACCREDITED as an

**ASBESTOS MANAGEMENT PLANNER**

Date Issued **10-30-12** Expires **09-27-13**

Cindy Mitchell

Cindy Mitchell  
Environmental Technologist III

No. **P12-10-2229**

John S. Lyons

John S. Lyons  
Director

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

**Asbestos Hazard Evaluation Specialist**



**John H Thomas**  
**7833 Spring Garden Court**  
**West Chester OH 45069**

DOB: 03/06/1964

Certification Number  
**ES31889**

Expiration Date  
**11/13/2013**

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