DEPARTMENT OF THE NAVY
NAVAL SUPPORT ACTIVITY WASHINGTON
1411 PARSONS AVENUE SE STE 340
WASHINGTON NAVY YARD, DC 20374-5034

5090
Ser N4/007
January 08, 2018

Ms. Karen Crumlish
Chief, Drinking Water Branch (3WP21)
EPA Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Dear Ms. Crumlish:

SUBJECT: ASBESTOS MONITORING RESULTS, WASHINGTON NAVY YARD

Enclosed is the certificate of analysis with asbestos monitoring results for the Washington Navy Yard (WNY). Monitoring was conducted in December 2017. Asbestos fibers were not detected in the samples collected at WNY.

If you have any questions or require further information, please contact Mr. Dane Bowker, Public Works Department Drinking Water Program Manager at 202-433-4191 or by email at dane.bowker@navy.mil.

Sincerely,

J. J. DRAEGER
Captain, U.S. Navy
Commanding Officer

Enclosure: 1. Certificate of Analysis

AMA Analytical Services, Inc.
Focused On Results.

CERTIFICATE OF ANALYSIS

NY ELAP
Lab ID 10920

Chain of Custody:	604530	**Job Name:**	WNY	**Date Submitted:**	12/20/2017
Client:	Inspections Experts, Inc.	**Job Location:**	Not Provided	**Date Analyzed:**	12/28/2017
Address:	9220 Rumsey Road Columbia, MD 21045	**Job Number:**	1511-223	**Report Date:**	12/28/2017
		P.O. Number:	Not Provided	**Date Sampled:**	12/20/2017
Attention:	Kosala De Silva			**Person Submitting:**	Gayan Kularathu

Summary of Results of Water Borne Asbestos Analysis by TEM - USEPA Method 100.2 and ELAP 198.2

AMA Sample	Client Sample	Sample Type	Sample Aliquot (ml)	Filter Collection (mm²)	Filter Area Analyzed (mm²)	Sensitivity (MFL)		Fiber Count		Total Fiber Conc. (MFL)			Long Fiber Conc. (MFL)			Comments
						Total	Long	Total	Long	Mean	95% UCL	95% LCL	Mean	95% UCL	95% LCL	
604530-1	WNT-166	Not Provided	100.0	1047.0	0.0532	0.197	0.197	NAD	NAD	< 0.726	0.726	N/A	< 0.726	0.726	N/A	
604530-2	WNT-122	Not Provided	100.0	1047.0	0.0532	0.197	0.197	NAD	NAD	< 0.726	0.726	N/A	< 0.726	0.726	N/A	
604530-3	WNT-112	Not Provided	100.0	1047.0	0.0532	0.197	0.197	NAD	NAD	< 0.726	0.726	N/A	< 0.726	0.726	N/A	

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						Total	Long	Total	Long	Mean	95% UCL	95% LCL	Mean	95% UCL	95% LCL	

Please Note: EPA Method 100.2 requires analysis of asbestos fibers with a minimum length of 10 um, which are reported in the long fiber concentration columns. AMA Analytical Services, Inc. also documents asbestos structures between 0.5um and 10um in length. Along with the long fibers these are reported in the total fiber concentration columns. Meets with ELAP 198.2 requirements.

Limit of Quantitation: The Limit of Quantitation (LOQ) for this method is equal to four asbestos fibers. If the sample had no asbestos detected (NAD) the mean asbestos concentration is reported as less than the 95% UCL (upper confidence limit), which is 369 % of the analytical sensitivity. If 1 to 3 fibers were detected, the mean asbestos concentration is reported as less than the 95 % UCL. A lower confidence limit (LCL) does not apply (N/A) for samples in which three or fewer asbestos fibers were detected.

Analytical Sensitivity: Typical analytical sensitivities for drinking water samples should be < 10 MFL for 'total' asbestos and <0.2 MFL for 'long' asbestos fibers. Analytical sensitivities may be much higher for water samples where the high concentration of suspended particulate requires using small aliquots to make usable sample preparations.

Method of Analysis: The method of analysis used is the EPA 100.2.

Asbestos Types: Chry = Chrysotile; Amos = Amosite; Croc = Crocidolite; Trem = Tremolite; Actn = Actinolite; Anth = Anthophyllite

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

Analyst(s): Michael Greenberg

Technical Director Andreas Saldivar

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. This report must not be used to claim, and does not imply product certification, approval, or endorsement by AIHA or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.

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						Total	Long	Total	Long	Mean	95% UCL	95% LCL	Mean	95% UCL	95% LCL	

OWI (410) 247-2024 159202 210 REV 6.08

AMA Analytical Services, Inc.
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4475 Forbes Blvd. • Lanham, MD 20706
(301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

CHAIN OF CUSTODY

(Please Refer To This Number For Inquires) 604530

Mailing/Billing Information:
1. Client Name: Inspection Experts Inc.
2. Address 1: 9250 Rumsey Road, ste 106, Columbia MD
3. Address 2: 21045
4. Address 3:
5. Phone #: 410-715-3939 Fax #:

Submittal Information:
1. Job Name:
2. Job Location:
3. Job #: P.O. #:
4. Contact Person: Kosala De Silva @ phone # 301-655-6109
5. Submitted by: Gayan Kularathna Signature:

Reporting Information (Results will be provided as soon as technically feasible):

AFTER HOURS (must be pre-scheduled)	NORMAL BUSINESS HOURS	REPORT TO:
❑ Immediate Date Due:	❑ Immediate ❑ 3 Day	❑ Include COC/Field Data Sheets with Report
❑ 24 Hours Time Due:	❑ Next Day ☒ 5 Day +	❑ Email: @
Comments:	❑ 2 Day Date Due: 12/28/17	❑ Fax:
	❑ Results Required By Noon (EveryAttempt Will Be Made to Accomodate)	❑ Verbals:

Asbestos Analysis
PCM Air – Please Indicate Filter Type:
- ❑ NIOSH 7400 (QTY)
- ❑ Fiberglass (QTY)

TEM Air – Please Indicate Filter Type:
- ❑ AHERA (QTY)
- ❑ NIOSH 7402 (QTY)
- ❑ Other (specify) (QTY)

PLM Bulk
- ❑ EPA 600 – Visual Estimate (QTY)
- ❑ EPA Point Count (QTY)
- ❑ NY State Friable 198.1 (QTY)
- ❑ Grav. Reduction ELAP 198.6 (QTY)
- ❑ Other (specify) (QTY)

MISC
- ❑ Vermiculite
- ❑ Asbestos Soil PLM__(Qual) PLM__(Quan) PLM/TEM__(Qual) PLM/TEM__(Quan)

TEM Bulk
- ❑ ELAP 198.4/Chatfield (QTY)
- ❑ NY State PLM/TEM (QTY)
- ❑ Residual Ash (QTY)

TEM Dust
- ❑ Qual. (pres/abs) Vacuum/Dust (QTY)
- ❑ Quan. (s/area) Vacuum D5755-95 (QTY)
- ❑ Quan. (s/area)Dust D6480-99 (QTY)

TEM Water
- ❑ Qual. (pres/abs) (QTY)
- ☒ ELAP 198.2/EPA 100.2 (QTY)
- ❑ EPA 100.1 (QTY)

☒ All samples received in good condition unless otherwise noted. (TEM Water samples °C)

Metals Analysis
- ❑ Pb Paint Chip (QTY)
- ❑ Pb Dust Wipe (wipe type) (QTY)
- ❑ Pb Air (QTY)
- ❑ Pb Soil/Solid (QTY)
- ❑ Pb TCLP (QTY)
- ❑ Drinking Water ❑ Pb (QTY) ❑ Cu (QTY) ❑ As (QTY)
- ❑ Waste Water ❑ Pb (QTY) ❑ Cu (QTY) ❑ As (QTY)
- ❑ Pb Furnace (Media) (QTY)

Fungal Analysis
Collection Apparatus for Spore Traps/Air Samples:
Collection Media
- ❑ Spore-Trap (QTY)
- ❑ Surface Swab (QTY)
- ❑ Surface Tape (QTY)
- ❑ Other (Specify) (QTY)
- ❑ Surface Vacuum Dust (QTY)
- ❑ Culturable ID Genus (Media) (QTY)
- ❑ Culturable ID Species (Media) (QTY)

SAMPLE INFORMATION / ANALYSIS / MATRIX

CLIENT ID NUMBER	SAMPLE LOCATION/ IDENTIFICATION	DATE	VOLUME (LITERS)	WIPE AREA	TEM	PCM	PLM	LEAD	MOLD	AIR	BULK	DUST	WATER AND OTHER	SPORE TRAP	TAPE	SWAB
WNT-166	1st Floor kitchen Sink	12/20	1	0820	X								X			
WNT-122	1st Floor Kitchen Sink	12/20	1	0843	X								X			
WNT-112	Men's locker room	12/20	1	0900	X								X			

CLIENT CONTACT (LABORATORY STAFF ONLY)
Date/Time: Contact: By:
Date/Time: Contact: By:
Date/Time: Contact: By:

LABORATORY STAFF ONLY: (CUSTODY)
1. Date/Time RCVD: 12 / 20 / 17 @ 1200 Via: 00 By (Print): Sign:
2. Date/Time Analyzed: / / @ By (Print): Sign:
3. Results Reported To: Via: Date: / / Time: Initials:
4. Comments: