

AIHA Proficiency Analytical Testing Programs

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Report Issue Date: 11/16/2012

Frank Ehrenfeld International Asbestos Testing Laboratories (IATL) 9000 Commerce Parkway Mt. Laurel, NJ 08054 Participant ID# 100188

Dear Frank Ehrenfeld,

Please find your organization's final Industrial Hygiene Proficiency Analytical Testing (IHPAT) results for **Round 191**. It is the participant's responsibility to thoroughly review results and to immediately contact the AIHA Proficiency Analytical Testing Programs in writing, if any errors are found in your report.

The proficiency demonstrated by the results of this IHPAT round is valid until the close of the retest round on January 16, 2013, if the participant chooses to enroll, or until February15, 2013 when the next IHPAT report will be available. Unacceptable performance may be improved by correctly analyzing a set of retest samples. Retest Order Forms and the PAT Programs Schedule are available online at <u>www.aihapat.org</u>. The deadline to order a retest is November 28, 2012.

Participants shall not describe their proficiency status in a manner that implies accreditation, certification or variations thereof. PAT results pertain only to the participant organization at the location listed on this results report. AIHA PAT Programs makes every effort to ensure that individual participant results are kept confidential and are not made public. Round results are only released to the participant and those entities requiring this information for accreditation, regulatory and contract purposes. New participants are made aware of the arrangement in advance of participation and consent is sought prior to the release of records for participants. PAT reports may not be reproduced or distributed unless copied in its entirety.

IHPAT **Round 192** sample kits will be mailed to participants around January 1, 2013. An email will be sent out upon shipment of round 192 samples. If you do not receive samples within fifteen (15) days after the ship date please contact the AIHA PAT Programs. Your organization's data will be due by 11:59pm ET on February 1, 2013. The analytes for round 192 are:

- Metals cadmium, lead, nickel
- Asbestos amosite
- Silica coal/talc
- Organics methanol (MOH)
- Diffusive benzene, toluene, o-xylene

Samples are generated, characterized, packaged, and shipped by SRI International, Menlo Park, CA 94025 under contract with AIHA Proficiency Analytical Testing Programs. Unless otherwise noted, sample homogeneity and stability criteria were satisfied for all samples.

I encourage you to contact me with any feedback, questions or if you wish to contest your results at nmugambwa@aiha.org.

Sincerely,

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Natasha Mugambwa, MS Manager, AIHA PAT Programs

Industrial Hygiene Proficiency Analytical Testing Results

This document contains three sub-reports relating to IHPAT Round 191. The first report contains your organization's results listed per contaminant, per sample. The second report contains your current and 2 previous test round performance respectively (where applicable), and the final report contains summary results for all participants for IHPAT round 191.

Testing Results for IHPAT Round 191

This part of the report contains your organization's results listed per contaminant, per sample.

Contaminant	Units	#	Result	Ref. Value	Lower Limit	Upper Limit	z-Score	Rating
	mg	1	0.0192	0.0201	0.0177	0.0226	-1.2	Α
Manganese	mg	2	0.0544	0.0552	0.0485	0.0618	-0.3	A
	mg	3	0.0716	0.0745	0.0656	0.0834	-1.0	A
	mg	4	0.0118	0.0120	0.0106	0.0135	-0.5	A
	mg	1	0.00480	0.00489	0.00430	0.00548	-0.5	A
Cadmium (CAD)	mg	2	0.00790	0.00782	0.00688	0.00876	0.3	A
	mg	3	0.01330	0.01327	0.01168	0.01486	0.1	A
	mg	4	0.01880	0.01841	0.01620	0.02062	0.5	A
	mg	1	0.0892	0.0937	0.0825	0.1050	-1.2	A
Lead (LEA)	mg	2	0.1354	0.1337	0.1177	0.1497	0.3	A
	mg	3	0.0652	0.0691	0.0608	0.0774	-1.4	A
	mg	4	0.0326	0.0345	0.0303	0.0386	-1.4	A
	f/mm2	1	683	445	218	752	2.4	A
Asbestos / Fibers (ASB)	f/mm2	2	281	168	83	285	2.9	A
	f/mm2	4	65	86	52	130	-1.8	A

Please note:

Reference value is the mean of the reference group

Lower limit = reference value - 3 standard deviations and Upper limit = reference value +3 standard deviations

Z-score = (reported result - reference value)/standard deviation; A - Acceptable Analysis; U - Unacceptable Analysis

Fiber data are positively skewed therefore transformations are used to obtain approximately normal distributions.

Both the assigned values and acceptance limits are based on consensus of the reference group. The acceptability of reported results is based on upper and lower acceptance limits. This is why a reported result may appear unacceptable according to z-score, but be identified as acceptable. Any nonparticipation or non-reporting of PAT data will result in unacceptable results (See PAT Programs Participation Policies, Section 2.1.6.2.)

Overall Performance Summary Concluding with 191

The following table contains your organization's current and 2 previous test rounds performance respectively (where applicable). For more information in regard to the determination of proficiency, please visit: www.aihapat.org

Sample	Round	Round Score**	Round Performance	Proficiency Status -Three Round Score
	189	4/4	Pass	
Asbestos	190	4/4	Pass	
	191	4/4	Pass	Р
	189	12/12	Pass	
Metals	190	12/12	Pass	
	191	12/12	Pass	Р

Please note:

The denominators represent the total number of samples analyzed.

The numerators represent the number of acceptable results.

Pass: Round Score ≥ 75% Fail: Round Score < 75%

P - Proficient; NP - Non-proficient; I - Indeterminate.

A participant is rated proficient for the applicable IHPAT analyte group if the participant has a passing score for the applicable IHPAT analyte group in two (2) of the last three (3) consecutive PT rounds. A participant is rated non-proficient for the applicable PT analyte group if the participant has failing scores for the associated PT analyte group in two (2) of the last three (3) consecutive PT rounds.

**Asbestos - Statistics for asbestos sample 3 did not meet the acceptability criteria so all participants have been awarded 1 point for the sample.

Performance of all Participants for IHPAT Round 191 The following table contains aggregate results for all participants IHPAT round 191.

201 0.0008 552 0.0022 745 0.0030 120 0.0005 489 0.00020	7 6	Acceptable
745 0.0030 120 0.0005	6	146
120 0.0005		146
	8	142
489 0.00020	5	141
	8	145
782 0.00031	6	147
327 0.00053	7	145
841 0.00074	8	145
0.0038	5	150
337 0.0054	9	143
691 0.0028	8	144
345 0.0014	10	142
997 0.0255	0	51
0.0288	2	51
0.0148	0	53
638 0.0253	0	54
5 89	174	562
68 34	86 2	629
6 13	49 :	653
659 0.0032	7	111
738 0.0387	3	116
738 0.0280	3	118
372 0.0056	2	113
531 0.0021	11	105
0.0524	7	111
211 0.0128	4	115
0.0078	4	110
435 0.0257	11	106
498 0.0100	5	112
682 0.0027	15	93
351 0.0294	7	112
6	682 0.0027 4.0 125 93	682 0.0027 4.0 125

*Low – < Lower Limit ; High – > Upper Limit **The reference group standard deviation is used but is limited to no less than 4% relative standard deviation or no greater than 20% relative standard deviation.