

Tillotson Environmental Occupational Consulting
TEOC

3530 E. Price Rd.

St. Johns, MI 48879

(989) 227-2000

Fax (989) 227-2005

September 13, 2017

Richard Brege

Environmental and Asbestos Services, LLC

P.O. Box 6

Alpena, MI 49707

**RE: Asbestos Air Monitoring Results - Alpena Public Library, 211 N. First St., Alpena, MI
49707**

Dear Mr. Brege

Thank you for providing TEOC (Tillotson Environmental Occupational Consulting) the opportunity to serve your environmental/occupational needs.

TEOC was requested to provide asbestos air monitoring at the above property.

TEOC collected 5 air samples on the first and second floors of the library. All sample results were less than 0.01 f/cc, considered clean air under EPA AHERA K-12 Schools.

The air sampling data sheet is attached showing results and locations of air samples. The documentation was provided to Richard Brege, E&AS, LLC

If you have any questions regarding this report, please contact me at (989) 227-2000.

Sincerely,

TEOC (Tillotson Environmental Occupational Consulting)



Michael R. Tillotson, CIH, CHMM

TEOC

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AIRBORNE FIBER MONITORING DATA

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PA # 173027 DATE 9/13/17 CLIENT E+AS

BUILDING REPRESENTATIVE

SITE LOCATION ALPENA 211 N 1st. STUDY ALPENA LIBRARY PCM

CONTRACTOR REPRESENTATIVE RICH BRUCE

SAMPLE# SLIDE#	TYPE	DESCRIPTION (NAME, SS#, LOCATION)	TIME ON	TIME OFF	SAMPLE TIME (MIN)	FLOW RATE (L/MIN)	VOLUME (LITERS)	TOTAL FIELDS		TOTAL FIBERS		FIBERS/FIELD		/mm ²	FIBERS/ FILTER	CONC. FIBERS/CC	TWA
								W	H	W	H	ACTUAL	CORR.				
1	GA	1 - Youth ALPENA A County Bldg	350	450	60	PRE 10 POST	600	100	20	20	.02				0.001		
2	GA	1 - MAIL ROOM	353	453	60	13	780	100	10	10	.01				0.0006		
3	GA	1 - Fiction BRCL	356	456	60	10	600	100	10	10	.01				0.0008		
4	GA	2 OFFICE AREA	402	502	60	10	600	100	21	2.5	.025				0.002		
5	GA	2 South END	404	504	60	10	600	100	21	2.5	.025				0.002		
FBI								100	0	0							
FBI								100	0	0							

SAMPLE BLANK CORR. AVE: 20170116 /FIELD HSE S.M. ✓ METHOD: NIOSH 7400, ISSUE 2

TEOC REPRESENTATIVE Phil Stoltz

TYPES: BZ = breathing zone
BA = background
GA = general area
CL = clearance
FB = field blank
EL = excursion limit
TEM = TEM clearance

FILTER AREA: 385 mm²
FILTER DIAMETER: 25 mm
FIBERS COUNTED: those > 5 µm
in length; aspect ratio > 3:1
WALTON-BECKET FIELD
AREA: 0.00785 mm²
LIMIT OF DETECTION: 7 f/mm²
LIMIT OF QUANTIFICATION: 100 f/mm²

CONC. = (fibers/field)/(filter area)
(field area/sample vol)(1000 cc/l)

* LOADING DENSITY BETWEEN LOD AND LOQ MAY HAVE POSITIVE BIAS.
LOADING DENSITY > 1300 f/mm² OR > 50% SAMPLE AREA (SPECIFY) MAY HAVE NEGATIVE BIAS.