



Lab/Cor, Inc.
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Analysis Report Cover
Final Report

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A Professional Service Corporation in the Northwest

Job Number: 150829 **SEA**

Report Number: 150829R01

Client: AmTest

Report Date: 10/8/2015

Address: 13600 NE 126th PI
Suite C
Kirkland, WA 98034

Project Name: Locloman Subdivision

Project No.:

PO Number: 15-455

PWS ID: 4766W

Reference No.:

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
150829 - S1	16045 -	EPA 100.2 - Potable Water		10/6/2015

EPA 100.2 - Potable Water Preparation and analysis of the above samples was conducted in accordance with the EPA method #100.2. In this method, samples are taken from an affected water supply to measure the amount of asbestos contamination in the system. Samples received 48 hours after collection, or with a sample received temperature greater than 10°C, are subjected to ozone/UV treatment.

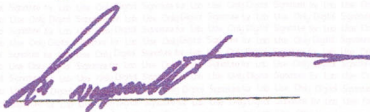
Each sample was shaken, then sonicated briefly in a Branson 2200 sonicator to distribute particulate evenly. Several aliquots were filtered onto 0.22 µm, 25 mm diameter mixed cellulose ester filters. Briefly, the samples were collapsed with a solution of N,N-dimethylformamide and acetic acid, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in N,N-Dimethylformamide / Acetone baths until cleared of filter debris.

Each aliquot was examined at low magnification to determine the best particulate loading for analysis. Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification of 10,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

Disclaimer The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

x 

Laboratory Supervisor

EPA 100.2 - Potable Water Summary Data

Job Number: 150829 SEA
 Client: AmTest

Report Number: 150829R01
 Date Received: 10/6/2015

Project Name: Locloman Subdivision

Lab/Cor Sample No.: S1
 Client Sample No.: 16045
 Description:
 Filter Fraction: 1
 Begin Volume: 40 ml
 Volume Taken: 40 ml

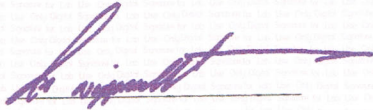
Aliquot Dilution: 1
 Final Dilution: 1

Sample Area/Mass/Volume (ml) : 800
 Lab Filter Area (mm²) : 193
 Grid Openings Analyzed : 4
 Average Grid Opening Area : 0.0107
 Area Analyzed (mm²) : 0.0428
 Analytical Sens. (struc/MFL>10-um) : 0.113
 Detection Limit. (struc/MFL>10-um) : 0.337

Analyst(s) Analysis Date Microscope Magnification
 DW 10/8/2015 Philips 410 10000

Structure Type	Concentration MFL>10-um	95% Confidence Interval MFL>10-um	Structure Count ¹ Prim/Total
TEM Water Amphibole	< 0.113	0 - 0.416 - Poisson	0
TEM Water Chrysotile	< 0.113	0 - 0.416 - Poisson	0
TEM Water Total	< 0.113	0 - 0.416 - Poisson	0

Reviewed by:

x 

Laboratory Supervisor

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

EPA 100.2 - Potable Water Raw Data

Job Number: 150829 SEA
 Client: AmTest

Report Number: 150829R01
 Date Received: 10/6/2015

Project Name: Locloman Subdivision
 Project No.:

Lab/Cor Sample No: S1
 Client Sample No: 16045
 Description:

Gr	No.	Loc.	ID	Prim Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G9	1	E41			NSD							
G9	2	E42			NSD							
G10	3	C33			NSD							
G11	4	F41			NSD							

Count Categories

Water_Amph TEM Water Amphibole WATER_Chrys TEM Water Chrysotile WATER_Total TEM Water Total

Reviewed by:

[Handwritten Signature]

Laboratory Supervisor