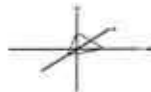


CA Labs

Dedicated to
Quality

Crisp Analytical, L.L.C.

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**Transmission Electron Microscopy Report
Drinking Water Asbestos Analysis
Laboratory Analysis Report
EPA 100.2 Modified Protocol**

Memorial Hermann Southwest Hospital

929 Gessner Rd Ste 2600
Houston, TX 77024-2593

Reference number: CAL1802858AF

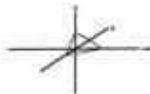
The samples, provided for analysis of asbestos in drinking water, were analyzed following Environmental Protection Agency method 100.1 and 100.2 for asbestos structures greater than ten microns in length.

The report lists the sample identification number, filter area, sample volume, area analyzed, structure counts, analytical sensitivity, and the asbestos concentration of structures greater than ten microns in length. The current EPA guideline for compliance is 7.0 million structures per liter ($7.0 \text{ S/L} \times 10^6$) for asbestos structures greater than ten micron in length.

CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM) and by the Texas Commission on Environmental Quality (TCEQ) for analysis of asbestos in drinking water. CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC) PLM, TEM and PCM Asbestos fields of testing for industrial hygiene. This analysis is not covered by the scope of accreditation by NVLAP. This method is not covered by the scope of AIHA accreditation for industrial hygiene. The test results relate only to the items described and tested herein. Neither NVLAP, AIHA, nor TCEQ accreditation implies endorsement by any US Government agency.

These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety days before discarding. A shipping and handling fee may be assessed for the return of any samples.

Analysis performed at Crisp Analytical Labs, L.L.C. 1929 Old Denton Road Carrollton, TX 75006. We can be reached after hours by cellular at (469) 222-6967.

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Baton Rouge, LA 70809
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Transmission Electron Microscopy Report

Analysis Method: Asbestos in Drinking Water by EPA 100.2 Modified

Preparation Method: Samples are filtered on 0.1um polycarbonate filters, carbon coated, and dissolved with chloroform in both jaffe wick and condensate washer (coldfinger). All preps must be verified by another analyst.

Client Information:Memorial Hermann Southwest
Hospital

929 Gessner Rd Ste 2600

Houston, TX 77024-2593

Phone:**Fax:****Client Project:**TCEQ Drinking Water Survey, Memorial Hermann
Southwest Hospital

Water System ID # TX1013608

Turnaround Time: 5 Days**Attn:** Dominick Negrini**CA Labs Project #:**

CAL1802858AF

Date of Sampling: 2/6/18**Report Date:** 2/21/18**Purchase Order #:**

Sample#	Location – provided by client	Filter Area (mm ²)	Volume Filtered (ml)	Area Analyzed (mm ²)	Asbestos Structures Detected >10um; chrysotile	Asbestos Structures Detected >10um; amphibole	Analytical Sensitivity: (S/L x 10 ⁶)	Concentration of Structures >10um; (S/L x 10 ⁶)
1840080	7600 Beechnut, SW Pavilion Houston	1064	50	0.1080	NSD	NSD	0.1970	<0.1970

All samples received in good condition unless noted.

Grid Opening Area: 0.0120 mm ²	Area Analyzed: 0.1080 mm ²	Analytical Sensitivity: 0.1970 MFL
Samples Received: 2/7/18 10:00am	Sample Filter Time: 2/7/18 4:02pm	Fibers <10um present (Y/N): N

The upper and lower 95% confidence range is 4.40 to -3.45 MFL for this test method at Crisp Analytical Labs, LLC.

Robert Olivarez
Analyst
NVLAP # 200349-0
TCEQ # T104704513-15-3
TDH # 30-0235

Page 1 of 1

Approved Signatories:

Julio Robles
Senior Analyst

Tanner Rasmussen
Technical Manager
Notes:

Some samples (floor tiles, surfacing, etc.) may contain fibers too small to be detectable by PLM. TEM Chatfield analysis of bulk material is recommended in this case. All asbestos percentages are based on calibrated visual estimates traceable to NIST standards for regulated asbestos types. Analysts' percentages fall within a range of acceptable percentages, depending on the actual concentration of asbestos. CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for bulk asbestos fiber analysis (PLM) and airborne fiber analysis (TEM). CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC) in the TEM asbestos field of testing for Industrial Hygiene. This test report relates only to the items tested. Neither NVLAP, AIHA nor TCEQ accreditation implies endorsement by any US Government agency. This report may not be reproduced except in full without written permission from CA Labs. This method is not covered by the scope of AIHA accreditation for industrial hygiene.

These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee may be assessed for the return of any samples.

Analysis performed at Crisp Analytical Labs, LLC. 1929 Old Denton Road Carrollton, TX 75006; phone (972) 242-2754, fax (972) 242-2798.

Public Water System Sample Collection Analysis Report

Public Water System ID # TX1013608

CAL802858

Report to:

MEMORIAL HERMANN SOUTHWEST HOSPITAL

929 GESSNER RD STE 2600

HOUSTON, TX 77024-2593

Collection Date 2/6/2018

Water analyses are required by law (30 TAC §290, TRS §341.0315). I acknowledge that the sampling technician has been accompanied during sampling and that the sample has been collected from the correct location indicated on this form. Water systems are responsible for all laboratory fees. Falsification of this form or tampering with water samples is a crime punishable under state and federal law. Refusing to sample, including refusing to sign this form, will result in monitoring and reporting violation(s), possible enforcement, and fines.

DOMINICK NEGRINI

WATER SYSTEM REPRESENTATIVE

RYAN HSUI

SAMPLING TECHNICIAN

SAMPLING LOCATION

FACILITY ID: EP001

FACILITY LOCATION: 7600 BEECHNUT, HOUSTON

LAT: N 29.69368

SAMPLE POINT: TRT-TAP

SAMPLE LOCATION: GST

LONG: W -95.520337

TAP FLUSHING - START: 9:12

FREE CHLORINE RESIDUAL: -- mg/L

TEMPERATURE: 65 °F

END: 9:32

TOTAL CHLORINE RESIDUAL: 2.01 mg/L

pH: 7.8

TIME	SAMPLE ID	ANALYSIS TYPE	CONTAINER	PRESERVATION	SAMPLE PERIOD	LAB	SAMPLE TYPE	PRIOR -ITY	COMPLI -ANCE
9:29:34	1801355	VOC	2 - 40 ML GLASS & FIELD BL	ASCORBIC ACID, HCl PH<2, COOL 4C	1Q2018	DSHS	RT	N	YES
COMMENTS: LOT DHL 01/24/18 EXP 04/24/18									
9:31:04	1808637	SOC5	1 L AMBER GLASS	SODIUM SULFITE, HCl PH<2, COOL 4C, DARK	1Q2018	DSHS	RT	N	YES
9:31:09	1815158	MTL1	1 L PLASTIC OR GLASS	NO FIELD PRESERVATION	YR2018	DSHS	RT	N	YES
9:32:07	1817901	MIN	1 L PLASTIC OR GLASS	COOL 4C	YR2018	DSHS	RT	N	YES
9:32:09	1820448	531	2 - 60 ML GLASS	SODIUM THIOSULFATE, MCA PH<3, COOL 4C	1Q2018	DSHS	RT	N	YES
9:32:46	1822872	515	2 - 40 ML AMBER GLASS	SODIUM SULFITE, COOL 10C, DARK	1Q2018	DSHS	RT	N	YES
9:32:49	1825514	504	3 - 40 ML GLASS & FIELD BL	SODIUM THIOSULFATE, COOL 4C	1Q2018	DSHS	RT	N	YES
COMMENTS: LOT DHL 01/24/18 EXP 04/24/18									
9:33:09	1827108	CYANIDE	1 L PLASTIC OR GLASS	ASCORBIC ACID, NaOH PH>12, COOL 4C	YR2018	DSHS	RT	N	YES

SAMPLING LOCATION

FACILITY ID: DS01

FACILITY LOCATION: DISTRIBUTION SYSTEM

LAT: N 29.69364

SAMPLE POINT: ASB-01

SAMPLE LOCATION: 7600 BEECHNUT, SW PAVILION, HOUSTON

LONG: W -95.519338

TAP FLUSHING - START: 9:36

FREE CHLORINE RESIDUAL: -- mg/L

TEMPERATURE: 65 °F

END: 9:41

TOTAL CHLORINE RESIDUAL: 2.1 mg/L

pH: 7.5

TIME	SAMPLE ID	ANALYSIS TYPE	CONTAINER	PRESERVATION	SAMPLE PERIOD	LAB	SAMPLE TYPE	PRIOR -ITY	COMPLI -ANCE
9:43:14	1840080	ASBESTOS	1 L PLASTIC OR GLASS	COOL 4C	YR2018	CRIS	RT	N	YES

10:00AM
2-7-18



FOR MORE INFORMATION: Public water systems may view their water system information including sampling schedules and sample results by visiting the State of Texas Drinking Water Watch website at the following address: <http://dww2.tceq.texas.gov/DWW/>

Regulations governing sample scheduling and collection are available upon request from the Public Drinking Water Section of the Texas Commission on Environmental Quality. Phone: (512) 239-4691. Email: PWSCHEN@tceq.texas.gov Website: <http://www.tceq.texas.gov>

Lab fee schedule can be found at the following address: www.tceq.texas.gov/drinkingwater/chemicals/sample_collection/costestimate#lab-fees

Date report printed 2/6/2018

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CAU802858

 CHAIN-OF-CUSTODY RECORD										Public Drinking Water Sample ANALYSES		LAB USE ONLY Lab Name: CRISP Lab Certification ID #: Lab Sample ID #					
Project Manager: VERONICA WILLIAMS										Received?							
TCEQ ID #		Date MM/DD/YY		Military Time		PWS ID#		# of Containers		Analysis Required		Chlorine Residual		pH		Comments	
		1840080		02/06/18		9:43:14		TX1013608		1		ASBESTOS		2.1		7.5	

General Comments:				Relinquished by: (sampler) Ryan Hsui				Sampler Phone #: (832) 228-8018				Sample Condition as Received On Ice? ☒ N ☐ Y							
Date 02/06/18				Time 17:00				Relinquished by: (laboratory) LSO				Sampler Name: RYAN HSUI				Sealed? ☒ N ☐ Y			
Date 2-7-18				Time 10:00AM				Shipper Number:				General Comments:							
Shipper Name:				LSO				Z 4397315											