CA Labs
Dedicated to
Quality

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

Woodrow Osceola WSC Osceola
1147 FM 934
Blum, TX 76627-3138

Reference number: CAL13088233NT

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 S/Lx10^6) 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 (214) 564-8366.

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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 by verified by another analyst.

Client Information:
Woodrow Osceola WSC
Osceola
1147 FM 934
Blum, TX 76627-3138

Phone:
Fax:

Client Project:
TCEQ Drinking Water Survey, Woodrow Osceola WSC Osceola

Water System ID # TX1090064

Turnaround Time: 5 Days
Attn: Greenhill, Richard, F

CA Labs Project #:
CAL13088233NT

Date of Sampling: 8/20/13

Report Date: 10/15/13
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)
1331040	8852 Highway 171	1,064	50	0.1150	**NSD**	**NSD**	0.1850	<0.1850

Grid Opening Area: 0.0115 mm^2	**Area Analyzed:** 0.1150 mm^2	**Analytical Sensitivity:** 0.1850 MFL
Samples Received: 8/22/13 8:00AM	**Sample Filter Time:** 8/22/13 9:25PM	**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.

NVLAP # 200349-0
TCEQ # T104704513-13-1
TDH # 30-0235

Approved Signatories:

Connor Vincent
Analyst

Page 1 of 1

Leslie Crisp
General Manager

Chad Lytle
Laboratory Director

Notes:
Some samples (floor tiles, surfacing, etc.) may contain fibers too small too 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.

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PWS/ 1090064 /AC

Public Water System Sample Collection Analysis Report

CAL3088233

Public Water System ID #: TX1090064

Bill To:
WOODROW OSCEOLA WSC OSCEOLA
GREENHILL, RICHARD, F
1147 FM 934
BLUM, TX 76627-3138

Report to:
WOODROW OSCEOLA WSC OSCEOLA
1147 FM 934
BLUM, TX 76627-3138

Collection Date: 8/20/2013

Water analyses are required by law (30 TAC §290, THSC §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 a monitoring and reporting violation(s), possible enforcement, and fines.

ERIC HAFFNER
WATER SYSTEM REPRESENTATIVE

DANIEL BOCHICCHIO
SAMPLING TECHNICIAN

SAMPLING LOCATION

FACILITY ID: EP001 — FACILITY LOCATION: 3084 FM 934, ITASCA — LAT: N 32.13419
SAMPLE POINT: TRT-TAP — SAMPLE LOCATION: PUMPHOUSE — LONG: W -97.20928
TAP FLUSHING - START: 11:45 — FREE CHLORINE RESIDUAL: 1.89 mg/L — TEMPERATURE: 89 °F
END: 11:50 — TOTAL CHLORINE RESIDUAL: -- mg/L — pH: 8.4

TIME	SAMPLE ID	ANALYSIS TYPE	CONTAINER	PRESERVATION	SAMPLE PERIOD	LAB	SAMPLE TYPE	PRIOR -ITY	COMPLI -ANCE
11:50:40	1317710	NO32	100 ML PLASTIC OR GLASS	COOL 4C	YR2013	LCRA	RT	N	YES

SAMPLING LOCATION

FACILITY ID: DS01 — FACILITY LOCATION: DISTRIBUTION SYSTEM — LAT: N 0
SAMPLE POINT: DBP1-01 — SAMPLE LOCATION: 8852 HWY 171 — LONG: W 0
TAP FLUSHING - START: 12:02 — FREE CHLORINE RESIDUAL: 1.91 mg/L — TEMPERATURE: 80 °F
END: 12:07 — TOTAL CHLORINE RESIDUAL: -- mg/L — pH: 8.4

TIME	SAMPLE ID	ANALYSIS TYPE	CONTAINER	PRESERVATION	SAMPLE PERIOD	LAB	SAMPLE TYPE	PRIOR -ITY	COMPLI -ANCE
12:12:33	1335667	HAA5	2-60 ML AMBER GLASS	AMMONIUM CHLORIDE, COOL 4C, DARK	3Y2013	LCRA	RT	N	YES
12:12:34	1348397	TTHM	2-40 ML GLASS	SODIUM THIOSULFATE, COOL 4C	3Y2013	LCRA	RT	N	YES

SAMPLING LOCATION

FACILITY ID: DS01 — FACILITY LOCATION: DISTRIBUTION SYSTEM — LAT: N 0
SAMPLE POINT: ASB-01 — SAMPLE LOCATION: 8852 highway 171 — LONG: W 0
TAP FLUSHING - START: 12:10 — FREE CHLORINE RESIDUAL: 1.91 mg/L — TEMPERATURE: 80 °F
END: 12:16 — TOTAL CHLORINE RESIDUAL: -- mg/L — pH: 8.3

TIME	SAMPLE ID	ANALYSIS TYPE	CONTAINER	PRESERVATION	SAMPLE PERIOD	LAB	SAMPLE TYPE	PRIOR -ITY	COMPLI -ANCE
12:17:02	1331040	ASBESTOS	1 L PLASTIC OR GLASS	COOL 4C	9Y2013	CRISP	RT	N	YES

8/22/13
8:00am

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://dww.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: PDWS@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