

Limited Asbestos Bulk Sampling and Analysis

On 3/6/18, Western Environmental & Safety Technologies LLC (WEST) conducted limited asbestos sampling and sample analysis on behalf of the Santee School District. The purpose of the limited survey was to sample and analyze suspect building materials for asbestos content within the roofing systems of the following locations:

- Sycamore Canyon ES – Multiple Buildings and Covered Walkways

The sample of the building materials collected were analyzed using polarized light microscopy (PLM). If any material containing asbestos or assumed to contain asbestos will be disturbed, appropriate local, state, and federal regulations and guidelines must be followed.

David Christy, a State of California Certified Asbestos Consultant (92-0703), conducted all of the on-site inspection activities. WEST warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted asbestos hazard evaluation methods for the site referenced in this report.

Sampling Method - Bulk Asbestos Samples

Wherever the collection of a bulk sample became necessary, samples were collected using general hand tools and placed in plastic zip bags, which were individually labelled with a sample number and description of the sampling location. This information was also recorded on a transmittal form. One copy of this form remained with the samples when transported to the laboratory. The second copy was retained by the surveyor.

Bulk Asbestos Sample Analysis

Each of the bulk samples collected were analysed by EMSL Analytical located in San Diego, California, using a combination of dispersion staining and polarized light microscopy. Sample preparation and analytical procedures follow the protocol outlined for NIOSH Method 9002 for bulk asbestos analysis, and the US EPA Method 600/R-93/116 dated July, 1993. Each of these methods is recognized by both federal and provincial authorities. For quality control purposes, the laboratory used for the sample asbestos analysis is certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

Deviations in Sample Results

Due to the removal and replacement of individual building materials over the course of a building's life or due to the installation of visually similar building products, it is possible that individual building surfaces may not be characteristic of the samples collected. Every effort was made to collect samples from typical building materials and components as found during the on-site sample collection. If any building material is discovered to be suspect of containing asbestos, and it was not accessible or identified in this limited asbestos sampling report, additional samples should be collected and analyzed and any reporting and asbestos records and data should subsequently be updated.

Findings

Based on the above information collected and the sample analysis attached to this report, asbestos was found within the samples collected and analyzed. Please see the asbestos sample breakdown attached to this page. If any building material is discovered to be suspect of containing asbestos, and it was not accessible or identified in this limited asbestos sampling report, additional samples should be collected and analyzed and the building inspection report and data should subsequently be updated.

Respectfully Submitted,



David Christy, CAC

Certified Asbestos Consultant / CAC# 92-0703

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Sycamore Canyon Elementary School – Santee School District Asbestos Roof Sampling Breakdown					
Sample #	Sample Date	Building	Sample Location	Material	Results
01R	3/6/18	Admin / Classroom	Roof – South	Roofing Core (roofing)	4% Chrysotile
01P	3/6/18	Admin / Classroom	Roof – South	Roofing Core (paper)	None Detected
02	3/6/18	Admin / Classroom	Roof – South	Roof Repair Mastic	None Detected
03	3/6/18	Admin / Classroom	Roof – South	Roof Fan Curb Mastic	None Detected
04R	3/6/18	Admin / Classroom	Roof – Center	Roofing Core (roofing)	None Detected
04P	3/6/18	Admin / Classroom	Roof – Center	Roofing Core (paper)	None Detected
05	3/6/18	Admin / Classroom	Roof – Center	Roof Fan Curb Mastic	None Detected
06	3/6/18	Admin / Classroom	Roof – Center	Roof Debris	15% Chrysotile
07R	3/6/18	Admin / Classroom	Roof – North	Roofing Core (roofing)	None Detected
07P	3/6/18	Admin / Classroom	Roof – North	Roofing Core (paper)	None Detected
08	3/6/18	Admin / Classroom	Roof – North	Roof Penetration Mastic	None Detected
09	3/6/18	Center Building	Roof – West	Roofing Core	None Detected
10R	3/6/18	Center Building	Roof – East	Roofing Core (roofing)	None Detected
10P	3/6/18	Center Building	Roof – East	Roofing Core (paper)	None Detected
11	3/6/18	Center Building	Roof – Center	Roof Edge Mastic	None Detected
12	3/6/18	Center Building	Roof – Center	Roof Penetration Mastic	None Detected
13R	3/6/18	Kinder Building	Roof – East	Roofing Core (roofing)	None Detected
13P	3/6/18	Kinder Building	Roof – East	Roofing Core (paper)	None Detected
14R	3/6/18	Kinder Building	Roof – West	Roofing Core (roofing)	None Detected
14P	3/6/18	Kinder Building	Roof – West	Roofing Core (paper)	None Detected
15	3/6/18	Kinder Building	Roof – Center	Roof Fan Curb Mastic	None Detected
16SP	3/6/18	Kinder Building	Roof – Center	Roof Penetration Mastic	None Detected
16M	3/6/18	Kinder Building	Roof – Center	Roof Penetration Mastic	2% Chrysotile
17	3/6/18	Kinder Building	Roof – West	Roof Edge Mastic	None Detected
18	3/6/18	Kitchen	Roof – East	Roofing Core	None Detected

None Detected = No asbestos found in the sample analyzed. The sample descriptions listed above represent the location of the individual sample collected. The building material that has been sampled as listed above may be present in other locations of the building and has been represented above as a homogeneous space. Asbestos results are reported in % using Polarized Light Microscopy (PLM) as reported by EMSL Analytical, San Diego, Ca. EMSL Analytical is a NVLAP and California DHS Accredited Laboratory provided: “Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy (PLM).

Sycamore Canyon Elementary School – Santee School District Asbestos Roof Sampling Breakdown					
Sample #	Sample Date	Building	Sample Location	Material	Results
19	3/6/18	Kitchen	Roof – West	Roofing Core	None Detected
20	3/6/18	Kitchen	Roof – Center	Roof Fan Curb Mastic	None Detected
21	3/6/18	Kitchen	Roof – East	Roof Edge Mastic	None Detected
22	3/6/18	Kitchen	Roof – Center	Roof Debris	15% Chrysotile
23	3/6/18	East Classroom wing	Roof – South	Roofing Core	None Detected
24R	3/6/18	East Classroom wing	Roof – Center	Roofing Core (roofing)	None Detected
24P	3/6/18	East Classroom wing	Roof – Center	Roofing Core (paper)	None Detected
25	3/6/18	East Classroom wing	Roof – North	Roofing Core	None Detected
26	3/6/18	East Classroom wing	Roof – North	Roof Penetration Mastic	None Detected
27	3/6/18	East Classroom wing	Roof – Center	Roof Penetration Mastic	None Detected
28	3/6/18	East Classroom wing	Roof – South	Roof Fan Curb Mastic	None Detected
29	3/6/18	Covered Walkway roof	Roof – MPR	Roofing Core	None Detected
30	3/6/18	Covered Walkway roof	Roof – MPR	Roof Edge Mastic	None Detected
31	3/6/18	Covered Walkway roof	Roof – Old Admin	Roofing Core	None Detected
32	3/6/18	Covered Walkway roof	Roof – Old Admin	Roof Edge Mastic	None Detected
33	3/6/18	Covered Walkway roof	Roof – Admin	Roofing Core	None Detected
34	3/6/18	Covered Walkway roof	Roof – Admin	Roof Edge Mastic	None Detected

None Detected = No asbestos found in the sample analyzed. The sample descriptions listed above represent the location of the individual sample collected. The building material that has been sampled as listed above may be present in other locations of the building and has been represented above as a homogeneous space. Asbestos results are reported in % using Polarized Light Microscopy (PLM) as reported by EMSL Analytical, San Diego, Ca. EMSL Analytical is a NVLAP and California DHS Accredited Laboratory provided: “Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy (PLM).



WESTERN ENVIRONMENTAL & SAFETY TECHNOLOGIES LLC

“an environmental consulting firm”

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EMSL Order: 431801279

Customer ID: WEST60

Customer PO:

Project ID:

Attention: David A Christy
Western Environmental & Safety Tech.
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San Diego, CA 92108

Phone: (619) 571-3987

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Received Date: 03/07/2018 9:25 AM

Analysis Date: 03/07/2018 - 03/08/2018

Collected Date:

Project: SYCAMORE E.S./SANTEE CA

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
01-Roofing 431801279-0001	ROOF/ADMIN WING CLASSROOM S/ROOF CORE	Black Fibrous Homogeneous	2% Glass	94% Non-fibrous (Other)	4% Chrysotile
01-Paper 431801279-0001A	ROOF/ADMIN WING CLASSROOM S/ROOF CORE	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
02 431801279-0002	ROOF/ADMIN WING CLASSROOM S/ROOF REPAIR MASTIC	Black Fibrous Homogeneous	7% Cellulose	93% Non-fibrous (Other)	None Detected
03 431801279-0003	ROOF/ADMIN WING CLASSROOM S/ROOF FAN CURB MASTIC	Black Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
04-Roofing 431801279-0004	ROOF/ADMIN WING CLASSROOM CENTER/ROOF CORE	Black Fibrous Homogeneous	5% Cellulose 2% Synthetic 2% Glass	91% Non-fibrous (Other)	None Detected
04-Paper 431801279-0004A	ROOF/ADMIN WING CLASSROOM CENTER/ROOF CORE	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
05 431801279-0005	ROOF/ADMIN WING CLASSROOM CENTER/ROOF FAN CURB MASTIC	Black Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
06 431801279-0006	ROOF/ADMIN WING CLASSROOM CENTER/ROOF DEBRIS	White/Black Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile
07-Roofing 431801279-0007	ROOF/ADMIN WING CLASSROOM N/ROOF CORE	Black Fibrous Homogeneous	7% Cellulose 2% Glass	91% Non-fibrous (Other)	None Detected
07-Paper 431801279-0007A	ROOF/ADMIN WING CLASSROOM N/ROOF CORE	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
08 431801279-0008	ROOF/ADMIN WING CLASSROOM N/ROOF PEN MASTIC	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
09 431801279-0009	ROOF/CENTER ADMIN BLDG OLD W/ROOF CORE	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
10-Roofing 431801279-0010	ROOF/CENTER ADMIN BLDG OLD E/ROOF CORE	Black Fibrous Homogeneous	2% Cellulose 2% Synthetic 10% Glass	86% Non-fibrous (Other)	None Detected
10-Paper 431801279-0010A	ROOF/CENTER ADMIN BLDG OLD E/ROOF CORE	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected

Initial report from: 03/08/2018 14:33:56



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EMSL Order: 431801279
Customer ID: WEST60
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
11 431801279-0011	ROOF/CENTER ADMIN BLDG OLD CENTER/ROOF EDGE MASTIC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12 431801279-0012	ROOF/CENTER ADMIN BLDG OLD CENTER/ROOF PEN MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13-Roofing 431801279-0013	ROOF/KINDER BLDG E/ROOF CORE	Black Fibrous Homogeneous	3% Cellulose 2% Glass	95% Non-fibrous (Other)	None Detected
13-Paper 431801279-0013A	ROOF/KINDER BLDG E/ROOF CORE	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
14-Roofing 431801279-0014	ROOF/KINDER BLDG W/ROOF CORE	Black Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
14-Paper 431801279-0014A	ROOF/KINDER BLDG W/ROOF CORE	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
15 431801279-0015	ROOF/KINDER BLDG CENTER/FAN CURB MASTIC	Gray/Black Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
16-Silver Paint 431801279-0016	ROOF/KINDER BLDG CENTER/ROOF PEN MASTIC	Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-Mastic 431801279-0016A	ROOF/KINDER BLDG CENTER/ROOF PEN MASTIC	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
17 431801279-0017	ROOF/KINDER BLDG W/ROOF EDGE MASTIC	Black Fibrous Homogeneous	7% Cellulose	93% Non-fibrous (Other)	None Detected
18 431801279-0018	ROOF/KITCHEN E/ROOF CORE	Black Fibrous Homogeneous	2% Synthetic 10% Glass	88% Non-fibrous (Other)	None Detected
19 431801279-0019	ROOF/KITCHEN W/ROOF CORE	Black Fibrous Homogeneous	2% Cellulose 2% Synthetic 3% Glass	93% Non-fibrous (Other)	None Detected
20 431801279-0020	ROOF/KITCHEN CENTER/FAN CURB MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21 431801279-0021	ROOF/KITCHEN E/ROOF EDGE MASTIC	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22 431801279-0022	ROOF/KITCHEN CENTER/ROOF DEBRIS	White/Black Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile
23 431801279-0023	ROOF/E WING CLASSROOM S/ROOF CORE	Black Fibrous Homogeneous	2% Cellulose 5% Synthetic 10% Glass	83% Non-fibrous (Other)	None Detected
24-Roofing 431801279-0024	ROOF/E WING CLASSROOM CENTER/ROOF CORE	Black Fibrous Homogeneous	2% Cellulose 10% Glass	88% Non-fibrous (Other)	None Detected

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EMSL Order: 431801279
Customer ID: WEST60
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
24-Paper 431801279-0024A	ROOF/E WING CLASSROOM CENTER/ROOF CORE	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
25 431801279-0025	ROOF/E WING CLASSROOM N/ROOF CORE	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
26 431801279-0026	ROOF/E WING CLASSROOM N/ROOF PEN MASTIC	Gray/Black Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
27 431801279-0027	ROOF/E WING CLASSROOM CENTER/ROOF PEN MASTIC	White/Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
28 431801279-0028	ROOF/E WING CLASSROOM S/FAN CURB MASTIC	Black Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
29 431801279-0029	ROOF/COVERED WALKWAY MPR/ROOF CORE	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
30 431801279-0030	ROOF/MPR/ROOF EDGE MASTIC	Black Fibrous Homogeneous	7% Cellulose	93% Non-fibrous (Other)	None Detected
31 431801279-0031	ROOF/OLD ADMIN/ROOF CORE	Black Fibrous Homogeneous	2% Cellulose 10% Glass	88% Non-fibrous (Other)	None Detected
32 431801279-0032	ROOF/OLD ADMIN/ROOF EDGE MASTIC	Black Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
33 431801279-0033	ROOF/ADMIN TO SPR/ROOF CORE	Black Fibrous Homogeneous	2% Cellulose 10% Glass	88% Non-fibrous (Other)	None Detected
34 431801279-0034	ROOF/ADMIN TO SPR/ROOF EDGE MASTIC	Gray/Black Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected

Analyst(s)

Ericka Lomibao (42)

Mariah Curran, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713

Initial report from: 03/08/2018 14:33:56

#431801279

Asbestos Bulk Sampling - Chain of Custody

WEST LLC 7966 Arjons Drive, #110 San Diego, CA 92115 Tel: 858.271.1842 Tel: 858.271.1856	Project Name: SYCAMORE E.S.	Contact: David A. Christy (619) 571-3987 Fax Results: (858) 271-1856	Laboratory to be used: EMSL Analytical City/State: San Diego, California
	Project Location: Santee, CA		

Turn Around Time: *48 HR*

Relinquished By: (sign/print)	Company	Date/Time	Received By: (sign/print)	Date/Time
David Christy	WEST	3/7/18	<i>[Signature]</i>	0925 3-7-18

Sample #	Date	Area	Sample Location	Sample Description	Analysis Requested	
01	3/6/18	Roof	ADMIN - CLASSROOM WINGS - SOUTH	Root Core	Asbestos - PLM	
02	<i>[Wavy line]</i>	<i>[Wavy line]</i>	<i>[Wavy line]</i>	Root Repair MASTIC	Asbestos - PLM	
03				Root FAN CURB MASTIC	Asbestos - PLM	
04				Center	Root Core	Asbestos - PLM
05				Center	Root FAN CURB MASTIC	Asbestos - PLM
06				Center	Root DEBRIS	Asbestos - PLM
07				North	Root Core	Asbestos - PLM
08				Center Bldg - Void	Root Pen. MASTIC	Asbestos - PLM
09				ADMIN - WEST	Root Core	Asbestos - PLM
10				EAST	Root Core	Asbestos - PLM
11				Center	Root EDGE MASTIC	Asbestos - PLM
12				Center	Root Pen. MASTIC	Asbestos - PLM
13				KINDER BLDG - EAST	Root Core	Asbestos - PLM
14				WEST	Root Core	Asbestos - PLM
15				Center	FAN CURB MASTIC	Asbestos - PLM
16				Center	Root Pen. MASTIC	Asbestos - PLM
17				WEST	Root EDGE MASTIC	Asbestos - PLM
18				KITCHEN - EAST	Root Core	Asbestos - PLM
19				KITCHEN - WEST	Root Core	Asbestos - PLM
20				Center	FAN CURB MASTIC	Asbestos - PLM
21				EAST	Root EDGE MASTIC	Asbestos - PLM
22				Center	Root DEBRIS	Asbestos - PLM
23				EAST - CLASSROOM WING SOUTH	Root Core	Asbestos - PLM
24				Center	Root Core	Asbestos - PLM

