



Report for:

William Frieszell
Terracon Consultants, Inc. - Emeryville
1466 66th Street
Emeryville, CA 94608

Regarding: Project: R1177466; Terra Linda High School, Limited Pre-Demolition Survey, 320 Nova Albion Way
EML ID: 1950686

Approved by:

Dates of Analysis:
Asbestos PLM: 06-26-2018

Approved Signatory
Renee Luna-Trepczynski

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Terracon Consultants, Inc. - Emeryville
 C/O: William Frieszell
 Re: R1177466; Terra Linda High School, Limited
 Pre-
 Demolition Survey, 320 Nova Albion Way

Date of Sampling: 06-21-2018
 Date of Receipt: 06-26-2018
 Date of Report: 06-26-2018

ASBESTOS PLM REPORT

Total Samples Submitted: 35

Total Samples Analyzed: 35

Total Samples with Layer Asbestos Content > 1%: 4

**Location: 89A, Main Roofing Field System;Black Rolled Composite Shingle Music/
 Theater Building,Roof Level;Southeastern Lower Roof Field At Approximate Center**

Lab ID-Version‡: 9185138-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	10% Glass Fibers 5% Cellulose
Sample Composite Homogeneity:	Poor

**Location: 89B, Main Roofing Field System;Black Rolled Composite Shingle Music/
 Theater Building,Roof Level;Main Roof Field Area At Eastern Side**

Lab ID-Version‡: 9185139-1

Sample Layers	Asbestos Content
White Roofing Material	ND
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Brown Wood	ND
Composite Non-Asbestos Content:	15% Cellulose 7% Glass Fibers
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

**Location: 89C, Main Roofing Field System;Black Rolled Composite Shingle Music/
 Theater Building,Roof Level;Main Roof Field Area At Approximate Center**

Lab ID-Version‡: 9185140-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Brown Fibrous Material	ND
Brown Wood	ND
Composite Non-Asbestos Content:	35% Cellulose 5% Synthetic Fibers < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

**Location: 89D, Main Roofing Field System;Black Rolled Composite Shingle Music/
 Theater Building,Roof Level;Main Roof Field Area At Western Side**

Lab ID-Version‡: 9185141-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Brown Wood	ND
Composite Non-Asbestos Content:	20% Cellulose 7% Glass Fibers
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

**Location: 90A, Roof Perimeter Flashing System;Black Rolled Composite Shingle Music/
 Theater Building,Roof Level;Southeastern Lower Roof Field At Northern Side**

Lab ID-Version‡: 9185142-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	15% Glass Fibers 7% Cellulose
Sample Composite Homogeneity:	Poor

**Location: 90B, Roof Perimeter Flashing System;Black Rolled Composite Shingle Music/
 Theater Building,Roof Level;Main Roof Field Area At Southwestern Side**

Lab ID-Version‡: 9185143-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt with Gray Pebbles	ND
Composite Non-Asbestos Content:	20% Glass Fibers
Sample Composite Homogeneity:	Moderate

**Location: 90C, Roof Perimeter Flashing System;Black Rolled Composite Shingle Music/
 Theater Building,Roof Level;Northeastern Outbuilding Roofing Field At East Side**

Lab ID-Version‡: 9185144-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt with Gray Pebbles	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	20% Glass Fibers
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

**Location: 91A, Roof Sleeper Mastic;Black/Grey Music/Theater Building,Roof Level;
Main Roof Field Area At Northeastern Sleeper Brace**

Lab ID-Version‡: 9185145-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	10% Chrysotile
Composite Non-Asbestos Content:	< 1% Glass Fibers
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

**Location: 91B, Roof Sleeper Mastic;Black/Grey Music/Theater Building,Roof Level;
 Main Roof Field Area At Northern Sleeper Brace**

Lab ID-Version‡: 9185146-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	10% Chrysotile
Composite Non-Asbestos Content:	< 1% Glass Fibers
Sample Composite Homogeneity:	Good

**Location: 91C, Roof Sleeper Mastic;Black/Grey Music/Theater Building,Roof Level;
 Main Roof Field Area At Western Sleeper Brace**

Lab ID-Version‡: 9185147-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic	10% Chrysotile
Composite Non-Asbestos Content:	< 1% Glass Fibers
Sample Composite Homogeneity:	Good

**Location: 92A, Roof Penetration Mastic;Black/Grey Music/Theater Building,Roof Level;
 Southeastern Lower Roof Field At Northern Drain**

Lab ID-Version‡: 9185148-1

Sample Layers	Asbestos Content
Gray/Black Roofing Mastic with Gray Pebbles	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

**Location: 92B, Roof Penetration Mastic;Black/Grey Music/Theater Building,Roof Level;
 Main Roof Field Area At Southern Vent Penetration**

Lab ID-Version‡: 9185149-1

Sample Layers	Asbestos Content
Black Roofing Mastic with Gray Pebbles	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

**Location: 92C, Roof Penetration Mastic;Black/Grey Music/Theater Building,Roof Level;
 Main Roof Field Area At Central Vent Penetration**

Lab ID-Version‡: 9185150-1

Sample Layers	Asbestos Content
Black Roofing Mastic with Gray Pebbles	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

**Location: 93A, HVAC Curbing System;Black Rolled Composite Shingle Music/Theater
 Building,Roof Level;Main Roof Field Area At Northern HVAC Curb**

Lab ID-Version‡: 9185151-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt with Gray Pebbles	ND
Composite Non-Asbestos Content:	10% Glass Fibers 5% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

**Location: 93B, HVAC Curbing System;Black Rolled Composite Shingle Music/Theater
 Building,Roof Level;Main Roof Field Area At Western HVAC Curb**

Lab ID-Version‡: 9185152-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	5% Cellulose 3% Glass Fibers 3% Synthetic Fibers
Sample Composite Homogeneity:	Poor

**Location: 94A, HVAC Curb Seam Mastic;Black/Grey Music/Theater Building,Roof
 Level;Main Roof Field Area At Northern HVAC Curb**

Lab ID-Version‡: 9185153-1

Sample Layers	Asbestos Content
Black Roofing Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 94B, HVAC Curb Seam Mastic;Black/Grey Music/Theater Building, Roof Level;Main Roof Field Area At Western HVAC Curb

Lab ID-Version‡: 9185154-1

Sample Layers	Asbestos Content
Black Roofing Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 95A, Outbuilding Roofing Field Systems;Black Composite Shingle Music/Theater Building, Roof Level;Northeastern Outbuilding Roofing Field At Center

Lab ID-Version‡: 9185155-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Composite Non-Asbestos Content:	15% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 95B, Outbuilding Roofing Field Systems;Black Composite Shingle Music/Theater Building, Roof Level;Northwestern Outbuilding Roofing Field At Center

Lab ID-Version‡: 9185156-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	10% Glass Fibers 5% Cellulose
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

**Location: 96A, Suspect Galbestos Awning Coating;Black With Tan Paint Music/Theater
Building,Roof Level;Northern Awning System At Eastern Side**

Lab ID-Version‡: 9185157-1

Sample Layers	Asbestos Content
Brown Semi-Fibrous Material with Multilayered Paint	20% Chrysotile
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 96B, Suspect Galbestos Awning Coating;Black With Tan Paint Music/Theater Building,Roof Level;Northern Awning System At Approximate Center

Lab ID-Version‡: 9185158-1

Sample Layers	Asbestos Content
White Paint	ND
Black Roofing Mastic with Tan Paint	ND
Composite Non-Asbestos Content:	7% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 96C, Suspect Galbestos Awning Coating;Black With Tan Paint Music/Theater Building,Roof Level;Northern Awning System At Western Side

Lab ID-Version‡: 9185159-1

Sample Layers	Asbestos Content
Black Roofing Tar with White Paint	ND
Sample Composite Homogeneity:	Good

Location: 97A, Northern Roofing Field;Rolled Black Composite Shingle Library Building,Roof Level;Western Roofing Area At Approximate Center

Lab ID-Version‡: 9185160-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	15% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 97B, Northern Roofing Field;Rolled Black Composite Shingle Library Building,Roof Level;Central Roofing Area At Approximate Center

Lab ID-Version‡: 9185161-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	15% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 97C, Northern Roofing Field; Rolled Black Composite Shingle Library
Building, Roof Level; Eastern Roofing Area At Northern Perimeter

Lab ID-Version‡: 9185162-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	10% Glass Fibers 5% Cellulose
Sample Composite Homogeneity:	Poor

Location: 98A, Roof Curbing/Flashing Systems; Rolled Black Composite Shingle Library
Building, Roof Level; Western Roofing Area At Southern Side Perimeter

Lab ID-Version‡: 9185163-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	10% Cellulose 5% Glass Fibers 3% Synthetic Fibers
Sample Composite Homogeneity:	Poor

Location: 98B, Roof Curbing/Flashing Systems; Rolled Black Composite Shingle Library
Building, Roof Level; Eastern Roofing Area At Central HVAC Curb

Lab ID-Version‡: 9185164-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gray Pebbles	ND
Black Roofing Tar and Felt	ND
Black Roofing Tar and Felt	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	7% Cellulose 7% Glass Fibers 2% Synthetic Fibers
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

**Location: 99A, Roof Penetration Mastic; White Library Building, Roof Level; Central
Roofing Area At Northwestern HVAC Penetration**

Lab ID-Version‡: 9185165-1

Sample Layers	Asbestos Content
White Roofing Mastic	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 99B, Roof Penetration Mastic; White Central Roofing Area At Northeastern HVAC Penetration

Lab ID-Version‡: 9185166-1

Sample Layers	Asbestos Content
White Roofing Mastic	ND
Sample Composite Homogeneity:	Good

Location: 100A, Roof Penetration/Seam Mastic; Black Library Building, Roof Level; Central Roofing Area At Southern HVAC Curb

Lab ID-Version‡: 9185167-1

Sample Layers	Asbestos Content
Black Roofing Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 100B, Roof Penetration/Seam Mastic; Black Library Building, Roof Level; Eastern Roofing Area At Mechanical System Penetration

Lab ID-Version‡: 9185168-1

Sample Layers	Asbestos Content
Black Roofing Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: 101A, HVAC Duct Wrapping; White Library Building, Roof Level; Central Roofing Area At Northwestern HVAC Unit

Lab ID-Version‡: 9185169-1

Sample Layers	Asbestos Content
White Wrap with White Paint	ND
Composite Non-Asbestos Content:	30% Cotton
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 101B, HVAC Duct Wrapping; White Library Building, Roof Level; Central Roofing Area At Northeastern HVAC Unit

Lab ID-Version‡: 9185170-1

Sample Layers	Asbestos Content
White Wrap with White Paint	ND
Composite Non-Asbestos Content:	30% Cotton
Sample Composite Homogeneity:	Good

Location: 102A, HVAC Duct Mastic; Grey Library Building, Roof Level; Central Roofing Area At Northwestern HVAC Unit

Lab ID-Version‡: 9185171-1

Sample Layers	Asbestos Content
Gray Roofing Mastic	ND
Sample Composite Homogeneity:	Good

Location: 102B, HVAC Duct Mastic; Grey Library Building, Roof Level; Central Roofing Area At Northeastern HVAC Unit

Lab ID-Version‡: 9185172-1

Sample Layers	Asbestos Content
Gray Roofing Mastic	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".