

Appendix A – Laboratory Reports



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
 Tel/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com / cinnaslab@EMSL.com>

EMSL Order: 041722312
 Customer ID: SMGS78B
 Customer PO:
 Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
 Safety Management Systems
 1001 Brad Freeman Trail
 Trailer #2 / Safety Mgmt Systems
 Oroville, CA 95965
Project: 2017.07.28 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/30/2017 10:20 AM
Analysis Date: 07/31/2017 - 08/01/2017
Collected Date: 07/28/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0728-OFD-PMT-01 041722312-0001	WP246 AM Intake Yard	1921.60	0.2020	0	None Detected		0.0010	<5.00	<0.0010
0728-OFD-PMT-02 041722312-0002	WP247 AM Upper Overlook Entry	1932.30	0.2020	2	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.									
0728-OFD-PMT-03 041722312-0003	WP248 AM Upper Overlook	1939.50	0.2020	0	None Detected		0.0010	<5.00	<0.0010
0728-OFD-PMT-04 041722312-0004	WP249 AM Canyon Drive	1920.70	0.2020	0	None Detected		0.0010	<5.00	<0.0010
0728-OFD-PMT-05 041722312-0005	WP246 PM Intake Yard	1938.60	0.2020	0	None Detected		0.0010	<5.00	<0.0010
0728-OFD-PMT-06 041722312-0006	WP247 PM Upper Overlook Entry	1933.20	0.2020	0	None Detected		0.0010	<5.00	<0.0010
0728-OFD-PMT-07 041722312-0007	WP248 PM Upper Overlook	1921.60	0.2020	0	None Detected		0.0010	<5.00	<0.0010
0728-OFD-PMT-08 041722312-0008	WP249 PM Canyon Drive	1936.80	0.2020	0	None Detected		0.0010	<5.00	<0.0010
0728-OFD-PMT-FB1 041722312-0009	Field Blank 1	0.00	0.1260	0	None Detected		N/A	<7.90	N/A
0728-OFD-PMT-FB2 041722312-0010	Field Blank 2	0.00	0.1260	0	None Detected		N/A	<7.90	N/A

Analyst(s)
 Matthew Dare (10)

Benjamin Ellis, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial Report From: 08/02/2017 10:36:03



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041722314

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965

Project: 2017.07.28 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/30/2017 10:20 AM

Analysis Date: 08/01/2017 - 08/02/2017

Collected Date: 07/28/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0728-OFD-TPT-01	WP278 AM N. Diversion Dam	1848.00	0.2140	1	None Detected		0.0010	<4.70	<0.0010
041722314-0001									
0728-OFD-TPT-02	WP251 AM Diversion Dam Yard	1850.70	0.2140	1	None Detected		0.0010	<4.70	<0.0010
041722314-0002									
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.									
0728-OFD-TPT-03	WP279 AM SE Diversion Dam	1861.80	0.2140	0	None Detected		0.0010	<4.70	<0.0010
041722314-0003									
0728-OFD-TPT-04	WP277 AM SW Diversion Dam	1848.00	0.2140	0	None Detected		0.0010	<4.70	<0.0010
041722314-0004									
0728-OFD-TPT-05	WP019A AM E. Diversion Dam	1843.80	0.2140	0	None Detected		0.0010	<4.70	<0.0010
041722314-0005									
0728-OFD-TPT-06	WP020A AM SE Canal	1846.50	0.2140	0	None Detected		0.0010	<4.70	<0.0010
041722314-0006									
0728-OFD-TPT-07	WP021A AM SW Canal	1846.50	0.2140	0	None Detected		0.0010	<4.70	<0.0010
041722314-0007									
0728-OFD-TPT-08	WP281 AM Cherokee Road	1845.00	0.2140	0	None Detected		0.0010	<4.70	<0.0010
041722314-0008									
0728-OFD-TPT-09	WP278 PM N. Diversion Dam	2028.40	0.2020	3	None Detected		0.0009	<5.00	<0.0009
041722314-0009									
0728-OFD-TPT-10	WP251 PM Diversion Dam Yard	2040.50	0.1890	1	None Detected		0.0010	<5.30	<0.0010
041722314-0010									
0728-OFD-TPT-11	WP279 PM SE Diversion Dam	2033.10	0.2020	0	None Detected		0.0009	<5.00	<0.0009
041722314-0011									
0728-OFD-TPT-12	WP277 PM SW Diversion Dam	2012.80	0.2020	0	None Detected		0.0009	<5.00	<0.0010
041722314-0012									
0728-OFD-TPT-13	WP019A PM E. Diversion Dam	2029.50	0.2020	0	None Detected		0.0009	<5.00	<0.0009
041722314-0013									
0728-OFD-TPT-14	WP020A PM SE Canal	2019.40	0.2020	0	None Detected		0.0009	<5.00	<0.0010
041722314-0014									
0728-OFD-TPT-15	WP021A PM SW Canal	2006.50	0.2020	0	None Detected		0.0010	<5.00	<0.0010
041722314-0015									
0728-OFD-TPT-16	WP281 PM Cherokee Road	2013.90	0.2020	0	None Detected		0.0009	<5.00	<0.0010
041722314-0016									

Initial Report From: 08/02/2017 10:34:03



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com / cinnaslab@EMSL.com>

EMSL Order: 041722314

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965
Project: 2017.07.28 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/30/2017 10:20 AM
Analysis Date: 08/01/2017 - 08/02/2017
Collected Date: 07/28/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
0728-OFD-TPT-FB1 041722314-0017	Field Blank 1	0.00	0.1260	0	None Detected			N/A	<7.90	N/A
0728-OFD-TPT-FB2 041722314-0018	Field Blank 2	0.00	0.1260	0	None Detected			N/A	<7.90	N/A

Analyst(s)

Matthew Dare (5)

William Nguyen (13)

Benjamin Ellis, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial Report From: 08/02/2017 10:34:03



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041722311

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.28 Burma Road (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/30/2017 10:20 AM

Analysis Date: 08/01/2017

Collected Date: 07/28/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm ²)	(S/cc)
0728-OFD-BPT-01 041722311-0001	WP017A AM Burma Road	1885.70	0.2140	0	Actinolite	0	1	0.0010	4.70	0.00095
0728-OFD-BPT-02 041722311-0002	WP017A PM Burma Road	1949.20	0.2020	1	None Detected			0.0010	<5.00	<0.0010
0728-OFD-BPT-FB1 041722311-0003	Field Blank 1	0.00	0.1260	0	None Detected			N/A	<7.90	N/A
0728-OFD-BPT-FB2 041722311-0004	Field Blank 2	0.00	0.1260	0	None Detected			N/A	<7.90	N/A

Analyst(s)

William Nguyen (4)

Benjamin Ellis, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial Report From: 08/01/2017 17:21:31



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
 Tel/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com / cinnaslab@EMSL.com>

EMSL Order: 041722313
 Customer ID: SMGS78B
 Customer PO:
 Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
 Safety Management Systems
 1001 Brad Freeman Trail
 Trailer #2 / Safety Mgmt Systems
 Oroville, CA 95965
Project: 2017.07.28 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 7/30/2017 10:20 AM
Analysis Date: 07/31/2017
Collected Date: 07/28/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0728-OFD-LRP-01	WP009A AM Launch Ramp Parking	1912.60	0.2020	2	Actinolite	1	1	0.0010	9.90	0.0020
041722313-0001										
0728-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1900.10	0.2140	1	None Detected			0.0009	<4.70	<0.0010
041722313-0002										
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.										
0728-OFD-LRP-03	WP009A PM Launch Ramp Parking	1949.40	0.2020	0	Actinolite	0	2	0.0010	9.90	0.0020
041722313-0003										
0728-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1954.80	0.2020	1	Actinolite	0	1	0.0010	5.00	0.00098
041722313-0004										
0728-OFD-LRP-FB1	Field Blank 1	0.00	0.1260	0	None Detected			N/A	<7.90	N/A
041722313-0005										
0728-OFD-LRP-FB2	Field Blank 2	0.00	0.1260	0	None Detected			N/A	<7.90	N/A
041722313-0006										

Analyst(s)
 Matthew Dare (6)

Benjamin Ellis, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial Report From: 08/01/2017 12:46:25



EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / sanleandrolab@emsl.com

EMSL Order: 091715284

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.29 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/31/2017 8:00 AM

Analysis Date: 08/08/2017 - 08/09/2017

Collected Date: 07/29/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0729-OFD-PMT-01 091715284-0001	WP246 AM INTAKE YARD	1918.90	0.2070	0	None Detected		0.0010	<4.80	<0.0010
0729-OFD-PMT-02 091715284-0002	WP247 AM UPPER OVERLOOK ENTRY	1926.00	0.2070	2	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0729-OFD-PMT-03 091715284-0003	WP248 AM UPPER OVERLOOK	1926.00	0.2070	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0729-OFD-PMT-04 091715284-0004	WP249 AM CANYON DRIVE	1931.40	0.2070	1	None Detected		0.0010	<4.80	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0729-OFD-PMT-05 091715284-0005	WP246 PM INTAKE YARD	1957.50	0.2070	0	None Detected		0.0009	<4.80	<0.0010
0729-OFD-PMT-06 091715284-0006	WP247 PM UPPER OVERLOOK ENTRY	1959.30	0.2070	1	None Detected		0.0009	<4.80	<0.0010
0729-OFD-PMT-07 091715284-0007	WP248 PM UPPER OVERLOOK	1957.50	0.2070	1	None Detected		0.0009	<4.80	<0.0010
0729-OFD-PMT-08 091715284-0008	WP249 PM CANYON DRIVE	1939.50	0.2070	0	None Detected		0.0010	<4.80	<0.0010
0729-OFD-PMT-FB1 091715284-0009	FIELD BLANK 1	0.00	0.1220	0	None Detected		N/A	<8.20	N/A
0729-OFD-PMT-FB2 091715284-0010	FIELD BLANK 2	0.00	0.1220	0	None Detected		N/A	<8.20	N/A



EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / sanleandrolab@emsl.com

EMSL Order: 091715284

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.29 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/31/2017 8:00 AM

Analysis Date: 08/08/2017 - 08/09/2017

Collected Date: 07/29/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)

Analyst(s)

Matthew Batongbacal (10)

Matthew Batongbacal
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial Report From: 08/10/2017 18:34:27



EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / sanleandrolab@emsl.com

EMSL Order: 091715285

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.29 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/31/2017 8:00 AM

Analysis Date: 08/07/2017 - 08/08/2017

Collected Date: 07/29/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0729-OFD-TPT-01	WP278 AM N DIVERSION DAM	1858.80	0.2070	2	None Detected		0.0010	<4.80	<0.0010
091715285-0001									
0729-OFD-TPT-02	WP251 AM DIVERSION DAM YARD	1839.60	0.2200	2	None Detected		0.0010	<4.60	<0.0010
091715285-0002									
0729-OFD-TPT-03	WP279 AM SE DIVERSION DAM	1861.50	0.2070	3	None Detected		0.0010	<4.80	<0.0010
091715285-0003									
0729-OFD-TPT-04	WP277 AM SW DIVERSION DAM	1864.20	0.2070	0	None Detected		0.0010	<4.80	<0.0010
091715285-0004									
0729-OFD-TPT-05	WP019A AM E DIVERSION DAM	1853.00	0.2200	0	None Detected		0.0009	<4.60	<0.0010
091715285-0005									
0729-OFD-TPT-06	WP020A AM SE CANAL	1858.30	0.2070	1	None Detected		0.0010	<4.80	<0.0010
091715285-0006									
0729-OFD-TPT-07	WP021A AM SW CANAL	1858.30	0.2070	0	None Detected		0.0010	<4.80	<0.0010
091715285-0007									
0729-OFD-TPT-08	WP281 AM CHEROKEE RD	1885.70	0.2070	0	None Detected		0.0010	<4.80	<0.0010
091715285-0008									
0729-OFD-TPT-09	WP278 PM N DIVERSION DAM	2031.80	0.1950	1	None Detected		0.0010	<5.10	<0.0010
091715285-0009									
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0729-OFD-TPT-10	WP251 PM DIVERSION DAM YARD	2042.00	0.1950	1	None Detected		0.0010	<5.10	<0.0010
091715285-0010									
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0729-OFD-TPT-11	WP279 PM SE DIVERSION DAM	2026.40	0.1950	0	None Detected		0.0010	<5.10	<0.0010
091715285-0011									
0729-OFD-TPT-12	WP277 PM SW DIVERSION DAM	2031.10	0.1950	0	None Detected		0.0010	<5.10	<0.0010
091715285-0012									
0729-OFD-TPT-13	WP019A PM E DIVERSION DAM	2023.70	0.1950	1	None Detected		0.0010	<5.10	<0.0010
091715285-0013									
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0729-OFD-TPT-14	WP020A PM SE CANAL	2035.80	0.1950	2	None Detected		0.0010	<5.10	<0.0010
091715285-0014									
0729-OFD-TPT-15	WP021A PM SW CANAL	2028.40	0.1950	1	None Detected		0.0010	<5.10	<0.0010
091715285-0015									

Initial Report From: 08/08/2017 18:23:03



EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / sanleandrolab@emsl.com

EMSL Order: 091715285

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.29 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/31/2017 8:00 AM

Analysis Date: 08/07/2017 - 08/08/2017

Collected Date: 07/29/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
0729-OFD-TPT-16	WP281 PM CHEROKEE RD	2004.60	0.1950	1	None Detected			0.0010	<5.10	<0.0010
091715285-0016										
0729-OFD-TPT-FB1	FIELD BLANK 1	0.00	0.1220	0	None Detected			N/A	<8.20	N/A
091715285-0017										
0729-OFD-TPT-FB2	FIELD BLANK 2	0.00	0.1220	0	None Detected			N/A	<8.20	N/A
091715285-0018										

Analyst(s)

Matthew Batongbacal (18)

Matthew Batongbacal
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial Report From: 08/08/2017 18:23:03



EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com / sanleandrolab@emsl.com>

EMSL Order: 091715282

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.29 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/31/2017 8:00 AM

Analysis Date: 08/09/2017

Collected Date: 07/29/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm ²)	(S/cc)
0729-OFD-BPT-01	WP017A AM BURMA ROAD	1902.80	0.2070	0	None Detected			0.0010	<4.80	<0.0010
091715282-0001										
0729-OFD-BPT-02	WP017A PM BURMA ROAD	2018.20	0.1950	1	Actinolite	1	0	0.0010	5.10	0.00098
091715282-0002										
0729-OFD-BPT-FB1	FIELD BLANK 1	0.00	0.1220	0	None Detected			N/A	<8.20	N/A
091715282-0003										
0729-OFD-BPT-FB2	FIELD BLANK 2	0.00	0.1220	0	None Detected			N/A	<8.20	N/A
091715282-0004										

Analyst(s)

Matthew Batongbacal (4)

Matthew Batongbacal
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial Report From: 08/10/2017 18:33:47



EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / sanleandrolab@emsl.com

EMSL Order: 091715283

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.29 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 7/31/2017 8:00 AM

Analysis Date: 08/10/2017

Collected Date: 07/29/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0729-OFD-LRP-01	WP009A AM LAUNCH RAMP PARKING	1926.90	0.2070	3	None Detected		0.0010	<4.80	<0.0010
091715283-0001									
0729-OFD-LRP-02	WP010A AM LAUNCH RAMP TURNAROUND	1934.10	0.2070	2	None Detected		0.0010	<4.80	<0.0010
091715283-0002									
0729-OFD-LRP-03	WP009A PM LAUNCH RAMP PARKING	1948.50	0.2070	0	None Detected		0.0010	<4.80	<0.0010
091715283-0003									
0729-OFD-LRP-04	WP010A PM LAUNCH RAMP TURNAROUND	1951.20	0.2070	1	None Detected		0.0010	<4.80	<0.0010
091715283-0004									
0729-OFD-LRP-FB1	FIELD BLANK 1	0.00	0.1220	0	None Detected		N/A	<8.20	N/A
091715283-0005									
0729-OFD-LRP-FB2	FIELD BLANK 2	0.00	0.1220	0	None Detected		N/A	<8.20	N/A
091715283-0006									

Analyst(s)

Matthew Batongbacal (6)

Matthew Batongbacal
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial Report From: 08/10/2017 18:12:07



EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106

Tel/Fax: (207) 517-6921 / (207) 517-6922

<http://www.EMSL.com> / portlandlab@emsl.com

EMSL Order: 621701221

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.30 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 2/2017 10:00 AM

Analysis Date: 08/09/2017 - 08/11/2017

Collected Date: 07/30/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	≥5μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0730-OFD-PMT-01 621701221-0001	WP246 AM Intake Yard	1929.60	0.2110	0	Tremolite	0	2	0.0009	9.50	0.0019
0730-OFD-PMT-02 621701221-0002	WP247 AM Upper Overlook Entry	1917.10	0.2110	0	None Detected			0.0010	<4.70	<0.0010
0730-OFD-PMT-03 621701221-0003	WP248 AM Upper Overlook	1931.40	0.2110	0	None Detected			0.0009	<4.70	<0.0009
0730-OFD-PMT-04 621701221-0004	WP249 AM Canyon Drive	1925.10	0.2110	0	None Detected			0.0009	<4.70	<0.0010
0730-OFD-PMT-05 621701221-0005	WP246 PM Intake Yard	1938.60	0.2110	0	None Detected			0.0009	<4.70	<0.0009
0730-OFD-PMT-06 621701221-0006	WP247 PM Upper Overlook Entry	1776.60	0.2240	0	None Detected			0.0010	<4.50	<0.0010
0730-OFD-PMT-07 621701221-0007	WP248 PM Upper Overlook	1936.80	0.2110	1	None Detected			0.0009	<4.70	<0.0009
0730-OFD-PMT-08 621701221-0008	WP249 PM Canyon Drive	1926.90	0.2110	0	None Detected			0.0009	<4.70	<0.0010
0730-OFD-PMT-FB1 621701221-0009	Field Blank 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
0730-OFD-PMT-FB2 621701221-0010	Field Blank 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A

Analyst(s)

Christina Lentz (10)

Christina Lentz, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial report from: 08/11/2017 10:08:18



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043

Tel/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 141703896

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.30 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 1/2017 10:25 AM

Analysis Date: 08/02/2017 - 08/03/2017

Collected Date: 07/30/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0730-OFD-TPT-01	WP278 AM N. Diversion Dam	1842.30	0.2110	0	Chrysotile	1	0	0.0010	4.70	0.00099
141703896-0001										
0730-OFD-TPT-02	WP251 AM Diversion Dam Yard	1849.20	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141703896-0002										
0730-OFD-TPT-03	WP279 AM SE Diversion Dam	1854.60	0.2110	1	None Detected			0.0010	<4.70	<0.0010
141703896-0003										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0730-OFD-TPT-04	WP277 AM SW Diversion Dam	1861.50	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141703896-0004										
0730-OFD-TPT-05	WP019A AM E. Diversion Dam	1848.70	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141703896-0005										
0730-OFD-TPT-06	WP020A AM SE Canal	1866.90	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141703896-0006										
0730-OFD-TPT-07	WP021A AM SW Canal	1876.50	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141703896-0007										
0730-OFD-TPT-08	WP281 AM Cherokee Rd.	1862.60	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141703896-0008										
0730-OFD-TPT-09	WP278 PM N. Diversion Dam	2044.80	0.1980	0	None Detected			0.0010	<5.10	<0.0010
141703896-0009										
0730-OFD-TPT-10	WP251 PM Diversion Dam Yard	2062.50	0.1980	0	None Detected			0.0009	<5.10	<0.0009
141703896-0010										
0730-OFD-TPT-11	WP279 PM SE Diversion Dam	2044.80	0.1980	2	None Detected			0.0010	<5.10	<0.0010
141703896-0011										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0730-OFD-TPT-12	WP277 PM SW Diversion Dam	2047.50	0.1980	0	None Detected			0.0010	<5.10	<0.0010
141703896-0012										
0730-OFD-TPT-13	WP019A PM E Diversion Dam	2052.30	0.1980	0	None Detected			0.0009	<5.10	<0.0010
141703896-0013										
0730-OFD-TPT-14	WP020A PM SE Canal	2052.30	0.1980	1	None Detected			0.0009	<5.10	<0.0010
141703896-0014										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0730-OFD-TPT-15	WP021A PM SW Canal	2059.80	0.1980	0	None Detected			0.0009	<5.10	<0.0009
141703896-0015										

Initial report from: 08/03/2017 13:22:39



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043

Tel/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 141703896

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.30 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 1/2017 10:25 AM

Analysis Date: 08/02/2017 - 08/03/2017

Collected Date: 07/30/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
0730-OFD-TPT-16 141703896-0016	WP281 PM Cherokee Rd.	2037.30	0.1980	2	None Detected			0.0010	<5.10	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0730-OFD-TPT-FB1 141703896-0017	Field Blank 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
0730-OFD-TPT-FB2 141703896-0018	Field Blank 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A

Analyst(s)

Peter Donato (18)

Rhonda McGee, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 08/03/2017 13:22:39



EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106

Tel/Fax: (207) 517-6921 / (207) 517-6922

<http://www.EMSL.com> / portlandlab@emsl.com

EMSL Order: 621701219

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.30 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 2/2017 10:00 AM

Analysis Date: 08/07/2017

Collected Date: 07/30/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
0730-OFD-BPT-01 621701219-0001	WP017A AM Burma Road	1869.50	0.2110	2	None Detected			0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0730-OFD-BPT-02 621701219-0002	WP017A PM Burma Road	1962.00	0.1980	4	Actinolite	0	1	0.0010	5.10	0.00099
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0730-OFD-BPT-FB1 621701219-0003	Field Blank 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
0730-OFD-BPT-FB2 621701219-0004	Field Blank 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A

Analyst(s)

Christina Lentz (4)

Christina Lentz, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial Report From: 08/07/2017 15:36:21



EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106

Tel/Fax: (207) 517-6921 / (207) 517-6922

<http://www.EMSL.com> / portlandlab@emsl.com

EMSL Order: 621701220

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.30 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 2/2017 10:00 AM

Analysis Date: 08/07/2017 - 08/09/2017

Collected Date: 07/30/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0730-OFD-LRP-01	WP009A AM Launch Ramp Parking	1937.60	0.2110	2	None Detected		0.0009	<4.70	<0.0009
621701220-0001 Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0730-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1947.60	0.1980	3	None Detected		0.0010	<5.10	<0.0010
621701220-0002 Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0730-OFD-LRP-03	WP009A PM Launch Ramp Parking	1930.50	0.2110	0	None Detected		0.0009	<4.70	<0.0009
621701220-0003									
0730-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1934.90	0.2110	0	None Detected		0.0009	<4.70	<0.0009
621701220-0004									
0730-OFD-LRP-FB1	Field Blank 1	0.00	0.1320	0	None Detected		N/A	<7.60	N/A
621701220-0005									
0730-OFD-LRP-FB2	Field Blank 2	0.00	0.1320	0	None Detected		N/A	<7.60	N/A
621701220-0006									

Analyst(s)

Christina Lentz (6)

Christina Lentz, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial report from: 08/09/2017 14:54:41



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 161714122

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.31 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 2/2017 10:30 AM

Analysis Date: 08/08/2017 - 08/10/2017

Collected Date: 07/31/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0731-OFD-PMT-01 161714122-0001	WP246 AM Intake Yard	1896.60	0.2140	8	Actinolite	1 0	0.0009	4.70	0.00095
Non-asbestos structures include a contribution from non-regulated amphiboles									
0731-OFD-PMT-02 161714122-0002	WP247 AM Upper Overlook Entry	1903.70	0.2140	9	Actinolite	1 1	0.0009	9.30	0.0019
0731-OFD-PMT-03 161714122-0003	WP248 AM Upper Overlook	1903.70	0.2140	6	None Detected		0.0009	<4.70	<0.0009
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0731-OFD-PMT-04 161714122-0004	WP249 AM Canyon Drive	1911.70	0.2020	3	Actinolite	1 0	0.0010	5.00	0.0010
Non-asbestos structures include a contribution from non-regulated amphiboles									
0731-OFD-PMT-05 161714122-0005	WP246 PM Intake Yard	1971.00	0.2020	5	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures include a contribution from non-regulated amphiboles									
0731-OFD-PMT-06 161714122-0006	WP247 PM Upper Overlook Entry	1965.60	0.2020	2	Actinolite	0 1	0.0010	5.00	0.00097
0731-OFD-PMT-07 161714122-0007	WP248 PM Upper Overlook	1961.00	0.2020	3	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures include a contribution from non-regulated amphiboles									
0731-OFD-PMT-08 161714122-0008	WP249 PM Canyon Drive	1952.90	0.2020	6	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures reported nclude contributions from non-regulated amphiboles									
0731-OFD-PMT-09 161714122-0009	Field Blank 1	0.00	0.0000	0	None Detected		N/A	<0.00	N/A
0731-OFD-PMT-10 161714122-0010	Field Blank 2	0.00	0.0000	0	None Detected		N/A	<0.00	N/A



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislaboratory@emsl.com

EMSL Order: 161714122

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.31 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 2/2017 10:30 AM

Analysis Date: 08/08/2017 - 08/10/2017

Collected Date: 07/31/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)

Analyst(s)

Craig Nixon (8)

Melissa Newkirk (2)

Richard Harding, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, CO AL-15132, TX 300262

Initial report from: 08/09/2017 08:14:45



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@lateesting.com

LA Testing Order: 331714836

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965

Project: 2017.07.31 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 2/2017 10:10 AM

Analysis Date: 08/04/2017 - 08/09/2017

Collected Date: 07/31/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0731-OFD-TPT-01	WP278 AM N. Diversion Dam	1902.80	0.2130	0	None Detected		0.0010	<4.70	<0.0010
331714836-0001									
0731-OFD-TPT-02	WP251 AM Diversion Dam Yard	1905.50	0.2130	2	None Detected		0.0010	<4.70	<0.0010
331714836-0002									
0731-OFD-TPT-03	WP279 AM SE Diversion Dam	1910.80	0.2130	4	None Detected		0.0009	<4.70	<0.0010
331714836-0003									
Non-asbestos structures reported includes a contribution from non-regulated amphiboles									
0731-OFD-TPT-04	WP277 AM SW Diversion Dam	1917.00	0.2130	7	None Detected		0.0009	<4.70	<0.0010
331714836-0004									
Non-asbestos structures reported includes a contribution from non-regulated amphiboles									
0731-OFD-TPT-05	WP019A AM E. Diversion Dam	1898.40	0.2130	7	None Detected		0.0010	<4.70	<0.0010
331714836-0005									
0731-OFD-TPT-06	WP020A AM SE Canal	1898.40	0.2130	0	None Detected		0.0010	<4.70	<0.0010
331714836-0006									
0731-OFD-TPT-07	WP021A AM SW Canal	1893.00	0.2130	2	None Detected		0.0010	<4.70	<0.0010
331714836-0007									
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0731-OFD-TPT-08	WP281 AM Cherokee Rd.	1908.90	0.2130	0	None Detected		0.0009	<4.70	<0.0010
331714836-0008									
0731-OFD-TPT-09	WP278 PM N. Diversion Dam	1976.50	0.2130	0	None Detected		0.0009	<4.70	<0.0009
331714836-0009									
0731-OFD-TPT-10	WP251 PM Diversion Dam Yard	2021.30	0.2000	0	None Detected		0.0010	<5.00	<0.0010
331714836-0010									
0731-OFD-TPT-11	WP279 PM SE Diversion Dam	2008.40	0.2000	1	None Detected		0.0010	<5.00	<0.0010
331714836-0011									
0731-OFD-TPT-12	WP277 PM SW Diversion Dam	2006.50	0.2000	2	None Detected		0.0010	<5.00	<0.0010
331714836-0012									
0731-OFD-TPT-13	W019A PM E Diversion Dam	2006.50	0.2000	0	None Detected		0.0010	<5.00	<0.0010
331714836-0013									
0731-OFD-TPT-14	WP020A PM SE Canal	2001.90	0.2000	1	None Detected		0.0010	<5.00	<0.0010
331714836-0014									
0731-OFD-TPT-15	WP021A PM SW Canal	2003.80	0.2000	0	None Detected		0.0010	<5.00	<0.0010
331714836-0015									

Initial Report From: 08/09/2017 14:44:36



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@latesting.com

LA Testing Order: 331714836

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.31 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 2/2017 10:10 AM

Analysis Date: 08/04/2017 - 08/09/2017

Collected Date: 07/31/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
0731-OFD-TPT-16 331714836-0016	WP281 PM Cherokee Rd.	1989.10	0.2000	0	None Detected			0.0010	<5.00	<0.0010
0731-OFD-TPT-FB1 331714836-0017	Field Blank 1	0.00	0.1250	0	None Detected			N/A	<8.00	N/A
0731-OFD-TPT-FB2 331714836-0018	Field Blank 2	0.00	0.1250	0	None Detected			N/A	<8.00	N/A

Analyst(s)

Christopher Miranda (3)

Jeffrey Deboo (12)

Larry Kolk (3)

Michael DeCavallas, Laboratory Manager
or other approved signatory

LA Testing is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above and may not be reproduced except in full, without written approval by LA Testing. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Sample received in acceptable condition unless otherwise noted. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing Huntington Beach, CA NVLAP Lab Code 101384-0

Initial Report From: 08/09/2017 14:44:36



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 161714120

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965
Project: 2017.07.31 Burma Rd. (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 8/ 2/2017 10:30 AM
Analysis Date: 08/04/2017 - 08/07/2017
Collected Date: 07/31/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0731-OFD-BPT-01 161714120-0001	WP017A AM Burma Road	1918.00	0.2020	15	None Detected		0.0010	<5.00	<0.0010
Non-Asbestos structures reported includes a contribution from non-regulated amphiboles.									
0731-OFD-BPT-02 161714120-0002	WP017A PM Burma Road	1945.80	0.2020	11	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures include a contribution from non-regulated amphiboles									
0731-OFD-BPT-FB1 161714120-0003	Field Blank 1	0.00	0.1260	0	None Detected		N/A	<7.90	N/A
0731-OFD-BPT-FB2 161714120-0004	Field Blank 2	0.00	0.1260	0	None Detected		N/A	<7.90	N/A

Analyst(s)

Craig Nixon (3)

Melissa Newkirk (1)

Richard Harding, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, CO AL-15132, TX 300262

Initial report from: 08/07/2017 07:15:36



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislaboratory@emsl.com

EMSL Order: 161714121

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.07.31 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 2/2017 10:30 AM

Analysis Date: 08/08/2017

Collected Date: 07/31/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0731-OFD-LRP-01	WP009A AM Launch Ramp Parking	1919.70	0.2020	9	None Detected		0.0010	<5.00	<0.0010
161714121-0001 Non-asbestos structures reported include a contribution from non-regulated amphiboles									
0731-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1934.10	0.2020	10	None Detected		0.0010	<5.00	<0.0010
161714121-0002 Non-asbestos structures include a contribution from non-regulated amphiboles									
0731-OFD-LRP-03	WP009A PM Launch Ramp Parking	1949.40	0.2020	8	None Detected		0.0010	<5.00	<0.0010
161714121-0003 Non-asbestos structures include a contribution from non-regulated amphiboles									
0731-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1946.70	0.2020	7	None Detected		0.0010	<5.00	<0.0010
161714121-0004 Non-asbestos structures include a contribution from non-regulated amphiboles									
0731-OFD-LRP-05	Field Blank 1	0.00	0.1260	0	None Detected		N/A	<7.90	N/A
161714121-0005									
0731-OFD-LRP-06	Field Blank 2	0.00	0.1260	0	None Detected		N/A	<7.90	N/A
161714121-0006									

Analyst(s)

Craig Nixon (6)

Richard Harding, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, CO AL-15132, TX 300262

Initial report from: 08/08/2017 12:03:35



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978

<http://www.EMSL.com> / wallingfordlab@emsl.com

EMSL Order: 241703288

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.01 UPPER AREA (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 3/2017 10:00 AM

Analysis Date: 08/09/2017 - 08/11/2017

Collected Date: 08/01/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0801-OFD-PMT-01 241703288-0001	WP246 AM INTAKE YARD	1914.40	0.2110	8	None Detected			0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0801-OFD-PMT-02 241703288-0002	WP247 AM UPPER OVERLOOK ENTRY	1922.40	0.2110	9	Actinolite	0	2	0.0009	9.50	0.0019
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0801-OFD-PMT-03 241703288-0003	WP248 AM UPPER OVERLOOK	1929.60	0.2110	2	Actinolite	2	0	0.0009	9.50	0.0019
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0801-OFD-PMT-04 241703288-0004	WP249 AM CANYON DRIVE	1917.10	0.2110	12	Actinolite	2	0	0.0010	9.50	0.0019
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0801-OFD-PMT-05 241703288-0005	WP246 PM INTAKE YARD	1997.50	0.1980	4	Actinolite	0	2	0.0010	10.00	0.0019
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0801-OFD-PMT-06 241703288-0006	WP247 PM UPPER OVERLOOK ENTRY	1971.00	0.1980	9	Actinolite	1	1	0.0010	10.00	0.0020
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0801-OFD-PMT-07 241703288-0007	WP248 PM UPPER OVERLOOK	1938.60	0.2110	7	None Detected			0.0009	<4.70	<0.0009
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0801-OFD-PMT-08 241703288-0008	WP249 PM CANYON DRIVE	1907.20	0.2110	5	None Detected			0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0801-OFD-PMT-FB1 241703288-0009	FIELD BLANK 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
0801-OFD-PMT-FB2 241703288-0010	FIELD BLANK 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978

<http://www.EMSL.com> / wallingfordlab@emsl.com

EMSL Order: 241703288

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.01 UPPER AREA (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 3/2017 10:00 AM

Analysis Date: 08/09/2017 - 08/11/2017

Collected Date: 08/01/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)

Analyst(s)

Almedina Hodzic (10)

Lauren Brennan, Asbestos Lab Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0, CT PH-0322, MA AA000191, RI AAL-108T3, VT AL357101

Initial report from: 08/11/2017 11:59:42



EMSL Analytical, Inc.

14375 23rd Avenue North Minneapolis, Mn 55447

Tel/Fax: (763) 449-4922 / (763) 449-4924

<http://www.EMSL.com / minneapolislab@emsl.com>

EMSL Order: 351705740

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.01 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 3/2017 9:05 AM

Analysis Date: 08/08/2017 - 08/17/2017

Collected Date: 08/01/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

		Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ		Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²) (S/cc)	
Sample	Location									
0801-OFD-TPT-01	WP278 AM N. Diversion Dam	1848.00	0.2110	9	Actinolite	1	0	0.0010	4.70	0.00099
351705740-0001										
0801-OFD-TPT-02	WP251 AM Diversion Dam Yard	1823.80	0.2230	14	None Detected			0.0009	<4.50	<0.0010
351705740-0002										
0801-OFD-TPT-03	WP279 AM SE Diversion Dam	1821.10	0.2230	13	Actinolite	0	3	0.0009	13.00	0.0028
351705740-0003										
0801-OFD-TPT-04	WP277 AM SW Diversion Dam	1834.70	0.2110	8	Actinolite	0	1	0.0010	4.70	0.0010
351705740-0004										
0801-OFD-TPT-05	WP019A AM E. Diversion Dam	1823.80	0.2230	16	Chrysotile	7	0	0.0009	31.00	0.0066
351705740-0005										
0801-OFD-TPT-06	WP020A AM SE Canal	1825.10	0.2230	13	None Detected			0.0009	<4.50	<0.0010
351705740-0006										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0801-OFD-TPT-07	WP021A AM SW Canal	1820.90	0.2230	8	None Detected			0.0009	<4.50	<0.0010
351705740-0007										
0801-OFD-TPT-08	WP281 AM Cherokee Rd.	1835.80	0.0000	0	Overloaded					
351705740-0008										
>25% particulate loading										
0801-OFD-TPT-09	WP278 PM N. Diversion Dam	2055.00	0.1980	12	Actinolite	0	1	0.0009	5.00	0.00094
351705740-0009										
0801-OFD-TPT-10	WP251 PM Diversion Dam Yard	2059.80	0.1980	10	None Detected			0.0009	<5.00	<0.0009
351705740-0010										
0801-OFD-TPT-11	WP279 PM SE Diversion Dam	2037.30	0.1980	10	None Detected			0.0010	<5.00	<0.0010
351705740-0011										
0801-OFD-TPT-12	WP277 PM SW Diversion Dam	2042.00	0.1980	10	None Detected			0.0010	<5.00	<0.0010
351705740-0012										
0801-OFD-TPT-13	WP019A PM E Diversion Dam	2044.80	0.1980	5	None Detected			0.0009	<5.00	<0.0010
351705740-0013										
0801-OFD-TPT-14	WP020A PM SE Canal	2054.30	0.1980	6	None Detected			0.0009	<5.00	<0.0010
351705740-0014										
0801-OFD-TPT-15	WP021A PM SW Canal	2049.50	0.1980	13	None Detected			0.0009	<5.00	<0.0010
351705740-0015										
0801-OFD-TPT-16	WP281 PM Cherokee Rd.	2026.40	0.1980	12	None Detected			0.0010	<5.00	<0.0010
351705740-0016										

Initial Report From: 08/17/2017 17:01:16



EMSL Analytical, Inc.

14375 23rd Avenue North Minneapolis, Mn 55447

Tel/Fax: (763) 449-4922 / (763) 449-4924

<http://www.EMSL.com / minneapolislab@emsl.com>

EMSL Order: 351705740

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.01 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 3/2017 9:05 AM

Analysis Date: 08/08/2017 - 08/17/2017

Collected Date: 08/01/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
0801-OFD-TPT-FB1 351705740-0017	Field Blank 1	0.00	0.1240	0	None Detected			N/A	<8.10	N/A
0801-OFD-TPT-FB2 351705740-0018	Field Blank 2	0.00	0.1240	0	None Detected			N/A	<8.10	N/A

Analyst(s)

Rachel Travis (17)

Rachel Travis, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn NVLAP Lab Code 200019-0

Initial Report From: 08/17/2017 17:01:16



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978

<http://www.EMSL.com / wallingfordlab@emsl.com>

EMSL Order: 241703284

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.01 BURMA RD (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 3/2017 10:00 AM

Analysis Date: 08/07/2017

Collected Date: 08/01/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm ²)	(S/cc)
0801-OFD-BPT-01	WP017A AM BURMA ROAD	1908.20	0.2110	13	Actinolite	4	2	0.0010	28.00	0.0057
241703284-0001										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0801-OFD-BPT-02	WP017A PM BURMA ROAD	1946.70	0.1980	1	Actinolite	2	4	0.0010	30.00	0.0060
241703284-0002										
0801-OFD-BPT-FB1	FIELD BLANK 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
241703284-0003										
0801-OFD-BPT-FB2	FIELD BLANK 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
241703284-0004										

Analyst(s)

Almedina Hodzic (4)

Lauren Brennan, Asbestos Lab Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0, CT PH-0322, MA AA000191, RI AAL-108T3, VT AL357101

Initial Report From: 08/07/2017 16:56:27



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978

<http://www.EMSL.com / wallingfordlab@emsl.com>

EMSL Order: 241703287

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.01 LAUNCH RAMP (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 3/2017 10:00 AM

Analysis Date: 08/08/2017 - 08/09/2017

Collected Date: 08/01/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures $\geq 0.5\mu < 5\mu$	$\geq 5\mu$	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0801-OFD-LRP-01	WP009A AM LAUNCH RAMP PARKING	1922.40	0.2110	10	Actinolite	1	3	0.0009	19.00	0.0038
241703287-0001										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0801-OFD-LRP-02	WP010A AM LAUNCH RAMP TURNAROUND	1944.00	0.2110	3	Actinolite	1	0	0.0009	4.70	0.00094
241703287-0002										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0801-OFD-LRP-03	WP009A PM LAUNCH RAMP PARKING	1986.40	0.1980	6	Actinolite	1	1	0.0010	10.00	0.0020
241703287-0003										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0801-OFD-LRP-04	WP010A PM LAUNCH RAMP TURNAROUND	1981.80	0.1980	7	Actinolite	2	2	0.0010	20.00	0.0039
241703287-0004										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0801-OFD-LRP-FB1	FIELD BLANK 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
241703287-0005										
0801-OFD-LRP-FB2	FIELD BLANK 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
241703287-0006										

Analyst(s)

Almedina Hodzic (6)

Lauren Brennan, Asbestos Lab Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0, CT PH-0322, MA AA000191, RI AAL-108T3, VT AL357101

Initial report from: 08/09/2017 15:50:54



EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com> / lasvegaslab@EMSL.com

EMSL Order: 311700376

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965

Project: 2017.08.02 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 4/2017 9:20 AM

Analysis Date: 08/10/2017 - 08/14/2017

Collected Date: 08/02/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0802-OFD-PMT-01 311700376-0001	WP246 AM Intake Yard	1912.60	0.2030	11	Actinolite	3 1	0.0010	20.00	0.0040
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0802-OFD-PMT-02 311700376-0002	WP247 AM Upper Overlook Entry	1894.80	0.2030	26	Chrysotile	0 1	0.0010	4.90	0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0802-OFD-PMT-03 311700376-0003	WP248 AM Upper Overlook	1913.50	0.2030	16	None Detected		0.0010	<4.90	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0802-OFD-PMT-04 311700376-0004	WP249 AM Canyon Drive	1928.70	0.2030	13	None Detected		0.0010	<4.90	<0.0010
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0802-OFD-PMT-05 311700376-0005	WP246 PM Intake Yard	2004.60	0.2030	6	None Detected		0.0009	<4.90	<0.0010
0802-OFD-PMT-06 311700376-0006	WP247 PM Upper Overlook Entry	1998.00	0.2030	5	Actinolite	2 0	0.0009	9.80	0.0019
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0802-OFD-PMT-07 311700376-0007	WP248 PM Upper Overlook	2006.70	0.2030	7	Actinolite	1 1	0.0009	9.80	0.0019
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0802-OFD-PMT-08 311700376-0008	WP249 PM Canyon Drive	2009.40	0.2030	12	None Detected		0.0009	<4.90	<0.0009
0802-OFD-PMT-FB1 311700376-0009	Field Blank 1	0.00	0.1270	0	None Detected		N/A	<7.90	N/A
0802-OFD-PMT-FB2 311700376-0010	Field Blank 2	0.00	0.1270	0	None Detected		N/A	<7.90	N/A



EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com> / lasvegaslab@EMSL.com

EMSL Order: 311700376

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.02 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 4/2017 9:20 AM

Analysis Date: 08/10/2017 - 08/14/2017

Collected Date: 08/02/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)

Analyst(s)

William Bradford (10)

Shannon Ferguson, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Las Vegas, NV

Initial Report From: 08/15/2017 14:12:18



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@lateesting.com

LA Testing Order: 331715022

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965

Project: 2017.08.02 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 4/2017 10:10 AM

Analysis Date: 08/09/2017 - 08/17/2017

Collected Date: 08/02/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0802-OFD-TPT-01	WP278 AM N. Diversion Dam	1860.30	0.2130	1	None Detected			0.0010	<4.70	<0.0010
331715022-0001										
0802-OFD-TPT-02	WP251 AM Diversion Dam Yard	1846.50	0.2130	1	None Detected			0.0010	<4.70	<0.0010
331715022-0002										
0802-OFD-TPT-03	WP279 AM SE Diversion Dam	1857.60	0.2130	1	None Detected			0.0010	<4.70	<0.0010
331715022-0003										
0802-OFD-TPT-04	WP277 AM SW Diversion Dam	1860.30	0.2130	0	Actinolite	0	1	0.0010	4.70	0.00097
331715022-0004										
0802-OFD-TPT-05	WP019A AM E. Diversion Dam	1850.70	0.2130	2	None Detected			0.0010	<4.70	<0.0010
331715022-0005										
0802-OFD-TPT-06	WP020A AM SE Canal	1849.20	0.2130	8	Actinolite	1	1	0.0010	9.40	0.0020
331715022-0006										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0802-OFD-TPT-07	WP021A AM SW Canal	1849.20	0.2130	9	None Detected			0.0010	<4.70	<0.0010
331715022-0007										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0802-OFD-TPT-08	WP281 AM Cherokee Rd.	1873.80	0.2130	10	None Detected			0.0010	<4.70	<0.0010
331715022-0008										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles										
0802-OFD-TPT-09	WP278 PM N. Diversion Dam	2035.20	0.2000	7	Chrysotile	1	0	0.0009	5.00	0.00095
331715022-0009										
0802-OFD-TPT-10	WP251 PM Diversion Dam Yard	2050.20	0.2000	15	None Detected			0.0009	<5.00	<0.0009
331715022-0010										
0802-OFD-TPT-11	WP279 PM SE Diversion Dam	2035.20	0.2000	9	Actinolite	0	1	0.0009	5.00	0.00095
331715022-0011										
0802-OFD-TPT-12	WP277 PM SW Diversion Dam	2025.00	0.2000	2	None Detected			0.0010	<5.00	<0.0010
331715022-0012										
0802-OFD-TPT-13	WP019A PM E Diversion Dam	2049.50	0.2000	1	None Detected			0.0009	<5.00	<0.0009
331715022-0013										
0802-OFD-TPT-14	WP020A PM SE Canal	2042.00	0.2000	1	None Detected			0.0009	<5.00	<0.0009
331715022-0014										
0802-OFD-TPT-15	WP021A PM SW Canal	2039.30	0.2000	0	None Detected			0.0009	<5.00	<0.0009
331715022-0015										

Initial Report From: 08/17/2017 15:40:32



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@latesting.com

LA Testing Order: 331715022

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965

Project: 2017.08.02 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 4/2017 10:10 AM

Analysis Date: 08/09/2017 - 08/17/2017

Collected Date: 08/02/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
0802-OFD-TPT-16 331715022-0016	WP281 PM Cherokee Rd.	2021.00	0.2000	0	None Detected			0.0010	<5.00	<0.0010
0802-OFD-TPT-FB1 331715022-0017	Field Blank 1	0.00	0.1250	0	None Detected			N/A	<8.00	N/A
0802-OFD-TPT-FB2 331715022-0018	Field Blank 2	0.00	0.1250	0	None Detected			N/A	<8.00	N/A

Analyst(s)

Christopher Miranda (5)

Jeffrey Deboo (12)

Larry Kolk (1)

Michael DeCavallas, Laboratory Manager
or other approved signatory

LA Testing is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above and may not be reproduced except in full, without written approval by LA Testing. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Sample received in acceptable condition unless otherwise noted. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing Huntington Beach, CA NVLAP Lab Code 101384-0

Initial Report From: 08/17/2017 15:40:32



EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com / lasvegaslab@EMSL.com>

EMSL Order: 311700374

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.02 Burma Road (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 4/2017 9:00 AM

Analysis Date: 08/14/2017 - 08/15/2017

Collected Date: 08/02/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm ²)	(S/cc)
0802-OFD-BPT-01	WP017A AM Burma Road	1917.00	0.2160	34	Actinolite	5	2	0.0009	32.00	0.0065
311700374-0001										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0802-OFD-BPT-02	WP017A PM Burma Road	2105.70	0.1910	21	Actinolite	3	0	0.0010	16.00	0.0029
311700374-0002										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0802-OFD-BPT-FB1	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
311700374-0003										
0802-OFD-BPT-FB2	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
311700374-0004										

Analyst(s)

William Bradford (4)

Shannon Ferguson, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Las Vegas, NV

Initial report from: 08/15/2017 09:31:10



EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com> / lasvegaslab@EMSL.com

EMSL Order: 311700375

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.02 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 4/2017 9:15 AM

Analysis Date: 08/08/2017 - 08/14/2017

Collected Date: 08/02/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm ²)	(S/cc)
0802-OFD-LRP-01	WP009A AM Launch Ramp Parking	1903.50	0.2030	24	Actinolite	2	1	0.0010	15.00	0.0030
311700375-0001										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0802-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1940.40	0.2030	25	Actinolite	4	0	0.0010	20.00	0.0039
311700375-0002										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0802-OFD-LRP-03	WP009A PM Launch Ramp Parking	1982.50	0.2030	5	Actinolite	2	1	0.0010	15.00	0.0029
311700375-0003										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0802-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1952.90	0.2030	9	Actinolite	0	1	0.0010	4.90	0.00097
311700375-0004										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0802-OFD-LRP-FB1	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
311700375-0005										
0802-OFD-LRP-FB2	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
311700375-0006										

Analyst(s)

William Bradford (6)

Shannon Ferguson, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Las Vegas, NV

Initial Report From: 08/15/2017 14:09:57



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649
 Tel/Fax: (714) 828-4999 / (714) 828-4944
<http://www.LATesting.com> / gardengrovelab@latesting.com

LA Testing Order: 331715153
Customer ID: SMGS78B
Customer PO:
Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
 Safety Management Systems
 1001 Brad Freeman Trail
 Trailer #2 / Safety Mgmt Systems
 Oroville, CA 95965
Project: 2017.08.03 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 8/ 7/2017 8:00 AM
Analysis Date: 08/15/2017 - 08/16/2017
Collected Date: 08/03/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm²)	(S/cc)
0803-OFD-PMT-01 331715153-0001	WP246 AM Intake Yard	1900.10	0.2130	7	Actinolite	1	2	0.0010	14.00	0.0029
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0803-OFD-PMT-02 331715153-0002	WP247 AM Upper Overlook Entry	1882.30	0.2130	13	Actinolite	0	1	0.0010	4.70	0.00096
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0803-OFD-PMT-03 331715153-0003	WP248 AM Upper Overlook	1889.40	0.2130	3	Actinolite	0	1	0.0010	4.70	0.00096
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0803-OFD-PMT-04 331715153-0004	WP248 AM Canyon Drive	1882.30	0.2130	9	Actinolite	1	0	0.0010	4.70	0.00096
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0803-OFD-PMT-05 331715153-0005	WP246 PM Intake Yard	1939.40	0.2000	6	None Detected			0.0010	<5.00	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0803-OFD-PMT-06 331715153-0006	WP247 PM Upper Overlook Entry	1930.50	0.2000	13	Chrysotile	1	0	0.0010	5.00	0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0803-OFD-PMT-07 331715153-0007	WP248 PM Upper Overlook	1918.00	0.2130	10	Actinolite	1	1	0.0009	9.40	0.0019
					Chrysotile	0	1		4.70	0.00094
					Total for all types.....				14.10	0.0028
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0803-OFD-PMT-08 331715153-0008	WP249 PM Canyon Drive	1901.00	0.2130	8	None Detected			0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0803-OFD-PMT-FB-1 331715153-0009	Field Blank 1	0.00	0.1250	0	None Detected			N/A	<8.00	N/A
0803-OFD-PMT-FB-2 331715153-0010	Field Blank 2	0.00	0.1250	0	None Detected			N/A	<8.00	N/A



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649
Tel/Fax: (714) 828-4999 / (714) 828-4944
<http://www.LATesting.com> / gardengrovelab@lateesting.com

LA Testing Order: 331715153
Customer ID: SMGS78B
Customer PO:
Project ID: Oroville EM OP


Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965
Project: 2017.08.03 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 8/7/2017 8:00 AM
Analysis Date: 08/15/2017 - 08/16/2017
Collected Date: 08/03/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)

Analyst(s)
Feng Liang (10)


Michael DeCavallas, Laboratory Manager
or other approved signatory

LA Testing is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above and may not be reproduced except in full, without written approval by LA Testing. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Sample received in acceptable condition unless otherwise noted. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0

Initial Report From: 08/17/2017 08:00:20



LA Testing

520 Mission Street South Pasadena, CA 91030
 Tel/Fax: (323) 254-9960 / (323) 254-9982
<http://www.LATesting.com / pasadenalab@latesting.com>

LA Testing Order: 321718645
Customer ID: SMGS78B
Customer PO:
Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
 Safety Management Systems
 1001 Brad Freeman Trail
 Trailer #2 / Safety Mgmt Systems
 Oroville, CA 95965
Project: 2017.08.03 DIVERSION DAM (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 8/ 7/2017 8:00 AM
Analysis Date: 08/07/2017 - 08/09/2017
Collected Date: 08/03/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0803-OFD-TPT-01	WP278 AM N. DIVERSION DAM	1858.80	0.2180	10	None Detected			0.0010	<4.60	<0.0010
321718645-0001										
0803-OFD-TPT-02	WP251 AM DIVERSION DAM YARD	1854.60	0.2180	12	Actinolite Chrysotile	1 1	0 0	0.0010	4.60 4.60	0.00095 0.00095
321718645-0002										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									9.20	0.0019
0803-OFD-TPT-03	WP279 AM SE DIVERSION DAM	1871.10	0.2180	9	None Detected			0.0009	<4.60	<0.0010
321718645-0003										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0803-OFD-TPT-04	WP277 AM SW DIVERSION DAM	1869.50	0.2180	4	None Detected			0.0009	<4.60	<0.0010
321718645-0004										
0803-OFD-TPT-05	WP019A AM E. DIVERSION DAM	1869.50	0.2180	8	Actinolite	0	1	0.0009	4.60	0.00095
321718645-0005										
0803-OFD-TPT-06	WP020A AM SE CANAL	1868.00	0.2180	20	None Detected			0.0009	<4.60	<0.0010
321718645-0006										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0803-OFD-TPT-07	WP021A AM SW CANAL	1862.60	0.2180	7	Actinolite	0	1	0.0010	4.60	0.00095
321718645-0007										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0803-OFD-TPT-08	WP281 AM CHEROKEE RD.	1879.20	0.2180	24	Actinolite	0	1	0.0009	4.60	0.00094
321718645-0008										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0803-OFD-TPT-09	WP278 PM N. DIVERSION DAM	2010.80	0.1920	11	Actinolite	1	0	0.0010	5.20	0.0010
321718645-0009										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0803-OFD-TPT-10	WP251 PM DIVERSION DAM YARD	2021.00	0.1920	12	None Detected			0.0010	<5.20	<0.0010
321718645-0010										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0803-OFD-TPT-11	WP279 PM SE DIVERSION DAM	2028.40	0.1920	11	None Detected			0.0010	<5.20	<0.0010
321718645-0011										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0803-OFD-TPT-12	WP277 PM SW DIVERSION DAM	2008.10	0.1920	14	None Detected			0.0010	<5.20	<0.0010
321718645-0012										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com/pasadenalab@latesting.com>

LA Testing Order: 321718645

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.03 DIVERSION DAM (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/7/2017 8:00 AM

Analysis Date: 08/07/2017 - 08/09/2017

Collected Date: 08/03/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0803-OFD-TPT-13	WP019A PM E DIVERSION DAM	2015.50	0.1920	11	None Detected		0.0010	<5.20	<0.0010
321718645-0013 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0803-OFD-TPT-14	WP020A PM SE CANAL	2012.80	0.1920	9	Actinolite	0 1	0.0010	5.20	0.0010
321718645-0014 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0803-OFD-TPT-15	WP021A PM SW CANAL	2008.10	0.1920	11	None Detected		0.0010	<5.20	<0.0010
321718645-0015 Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0803-OFD-TPT-16	WP281 PM CHEROKEE RD.	2018.20	0.1920	14	Actinolite	0 1	0.0010	5.20	0.00099
321718645-0016 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0803-OFD-TPT-FB1	FIELD BLANK 1	0.00	0.1280	0	None Detected		N/A	<7.80	N/A
321718645-0017									
0803-OFD-TPT-FB2	FIELD BLANK 2	0.00	0.1280	0	None Detected		N/A	<7.80	N/A
321718645-0018									

Analyst(s)

Feng Liang (12)

Kyeong Corbin (6)

Jerry Drapala Ph.D, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0

Initial Report From: 08/10/2017 08:04:10



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@latesting.com

LA Testing Order: 331715151

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.03 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/7/2017 8:00 AM

Analysis Date: 08/09/2017 - 08/15/2017

Collected Date: 08/03/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0803-OFD-BPT-01 331715151-0001	WP017A AM Burma Road	1820.90	0.2130	10	Actinolite	0	1	0.0010	4.70	0.00099
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0803-OFD-BPT-02 331715151-0002	WP017A PM Burma Road	1913.30	0.2130	11	Actinolite	1	1	0.0009	9.40	0.0019
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0803-OFD-BPT-FB1 331715151-0003	Field blank 1	0.00	0.1250	0	None Detected			N/A	<8.00	N/A
0803-OFD-BPT-FB2 331715151-0004	Field blank 2	0.00	0.1250	0	None Detected			N/A	<8.00	N/A

Analyst(s)

Christopher Miranda (3)

Larry Kolk (1)

Michael DeCavallas, Laboratory Manager
or other approved signatory

LA Testing is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above and may not be reproduced except in full, without written approval by LA Testing. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Sample received in acceptable condition unless otherwise noted. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing Huntington Beach, CA NVLAP Lab Code 101384-0

Initial report from: 08/15/2017 14:41:45



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649
 Tel/Fax: (714) 828-4999 / (714) 828-4944
<http://www.LATesting.com> / gardengrovelab@latesting.com

LA Testing Order: 331715152
Customer ID: SMGS78B
Customer PO:
Project ID: Oroville EM OP


Attention: Dave Beadle, CIH
 Safety Management Systems
 1001 Brad Freeman Trail
 Trailer #2 / Safety Mgmt Systems
 Oroville, CA 95965
Project: 2017.08.03 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 8/ 7/2017 8:00 AM
Analysis Date: 08/16/2017 - 08/17/2017
Collected Date: 08/03/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0803-OFD-LRP-01	WP009A AM Launch Ramp Parking	1909.90	0.2130	32	Chrysotile	1 0	0.0009	4.70	0.00095
331715152-0001 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0803-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1917.00	0.2130	33	None Detected		0.0009	<4.70	<0.0010
331715152-0002 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0803-OFD-LRP-03	WP009A PM Launch Ramp Parking	1927.80	0.2000	19	None Detected		0.0010	<5.00	<0.0010
331715152-0003 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0803-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1930.50	0.2000	21	None Detected		0.0010	<5.00	<0.0010
331715152-0004 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.									
0803-OFD-LRP-FB1	Field Blank 1	0.00	0.1250	0	None Detected		N/A	<8.00	N/A
331715152-0005									
0803-OFD-LRP-FB2	Field Blank 2	0.00	0.1250	0	None Detected		N/A	<8.00	N/A
331715152-0006									

Analyst(s)
 Kyeong Corbin (6)


 Michael DeCavallas, Laboratory Manager
 or other approved signatory

LA Testing is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above and may not be reproduced except in full, without written approval by LA Testing. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Sample received in acceptable condition unless otherwise noted. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0

Initial Report From: 08/18/2017 07:46:24



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041723113

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.04 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/7/2017 8:15 AM

Analysis Date: 08/09/2017

Collected Date: 08/04/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0804-OFD-PMT-01 041723113-0001	WP246 AM Intake Yard	1902.80	0.2130	0	None Detected		0.0010	<4.70	<0.0010
0804-OFD-PMT-02 041723113-0002	WP247 AM Upper Overlook Entry	1917.00	0.2130	0	None Detected		0.0009	<4.70	<0.0010
0804-OFD-PMT-03 041723113-0003	WP248 AM Upper Overlook	1919.70	0.2130	0	None Detected		0.0009	<4.70	<0.0009
0804-OFD-PMT-04 041723113-0004	WP249 AM Canyon Drive	1903.70	0.2130	0	Actinolite	0 1	0.0010	4.70	0.00095
0804-OFD-PMT-05 041723113-0005	WP246 PM Intake Yard	1989.20	0.2000	0	None Detected		0.0010	<5.00	<0.0010
0804-OFD-PMT-06 041723113-0006	WP247 PM Overlook Entry	1954.80	0.2000	0	None Detected		0.0010	<5.00	<0.0010
0804-OFD-PMT-07 041723113-0007	WP248 PM Upper Overlook	1952.10	0.2000	0	None Detected		0.0010	<5.00	<0.0010
0804-OFD-PMT-08 041723113-0008	WP249 AM Canyon Drive	1935.00	0.2000	0	None Detected		0.0010	<5.00	<0.0010
0804-OFD-PMT-FB1 041723113-0009	Field Blank 1	0.00	0.1250	0	None Detected		N/A	<8.00	N/A
0804-OFD-PMT-FB2 041723113-0010	Field Blank 2	0.00	0.1250	0	None Detected		N/A	<8.00	N/A

Analyst(s)

William Nguyen (10)

Benjamin Ellis, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial Report From: 08/09/2017 15:46:00



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041723114

Customer ID: SMGS78B

Customer PO:

Project ID:

Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965

Project: 2017.08.04 Diversion Dam

Phone: (661) 699-9375

Fax:

Received Date: 8/ 7/2017 8:15 AM

Analysis Date: 08/09/2017 - 08/10/2017

Collected Date: 08/04/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0804-OFD-TPT-01	WP278 AM N. Diversion Dam	1865.70	0.2130	0	None Detected		0.0010	<4.70	<0.0010
041723114-0001									
0804-OFD-TPT-02	WP251 AM Diversion Dam Yard	1854.60	0.2130	0	None Detected		0.0010	<4.70	<0.0010
041723114-0002									
0804-OFD-TPT-03	WP 279 AM SE Diversion Dam	1872.60	0.2130	0	None Detected		0.0010	<4.70	<0.0010
041723114-0003									
0804-OFD-TPT-04	WP277 AM SW Diversion Dam	1849.20	0.2130	0	None Detected		0.0010	<4.70	<0.0010
041723114-0004									
0804-OFD-TPT-05	WP019A AM E. Diversion Dam	1869.90	0.2130	0	None Detected		0.0010	<4.70	<0.0010
041723114-0005									
0804-OFD-TPT-06	WP020A AM SE Canal	1849.20	0.2130	0	None Detected		0.0010	<4.70	<0.0010
041723114-0006									
0804-OFD-TPT-07	WP021A AM SW Canal	1849.20	0.2130	0	None Detected		0.0010	<4.70	<0.0010
041723114-0007									
0804-OFD-TPT-08	WP281 AM Cherokee Rd.	1857.60	0.2130	0	None Detected		0.0010	<4.70	<0.0010
041723114-0008									
0804-OFD-TPT-09	WP278 PM N. Diversion Dam	2026.40	0.2000	0	None Detected		0.0010	<5.00	<0.0010
041723114-0009									
0804-OFD-TPT-10	WP251 PM Diversion Dam Yard	2025.70	0.2000	0	None Detected		0.0010	<5.00	<0.0010
041723114-0010									
0804-OFD-TPT-11	WP 279 PM SE Diversion Dam	2021.00	0.2000	0	None Detected		0.0010	<5.00	<0.0010
041723114-0011									
0804-OFD-TPT-12	WP277 PM SW Diversion Dam	2019.00	0.2000	0	None Detected		0.0010	<5.00	<0.0010
041723114-0012									
0804-OFD-TPT-13	WP019A PM E. Diversion Dam	2037.30	0.2000	1	None Detected		0.0009	<5.00	<0.0010
041723114-0013									
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.									
0804-OFD-TPT-14	WP020A PM SE Canal	2029.80	0.2000	0	None Detected		0.0009	<5.00	<0.0010
041723114-0014									
0804-OFD-TPT-15	WP021A PM SW Canal	2019.60	0.2000	0	None Detected		0.0010	<5.00	<0.0010
041723114-0015									
0804-OFD-TPT-16	WP281 PM Cherokee Rd.	2019.60	0.2000	0	None Detected		0.0010	<5.00	<0.0010
041723114-0016									

Initial Report From: 08/10/2017 09:48:08



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041723114

Customer ID: SMGS78B

Customer PO:

Project ID:

Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965

Project: 2017.08.04 Diversion Dam

Phone: (661) 699-9375

Fax:

Received Date: 8/7/2017 8:15 AM

Analysis Date: 08/09/2017 - 08/10/2017

Collected Date: 08/04/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	<5 ≥5μ		(S/mm ²)	(S/cc)
0804-OFD-TPT-FB1 041723114-0017	Field Blank 1	0.00	0.1250	0	None Detected			N/A	<8.00	N/A
0804-OFD-TPT-FB2 041723114-0018	Field Blank 2	0.00	0.1250	0	None Detected			N/A	<8.00	N/A

Analyst(s)

Matthew Dare (4)

William Nguyen (14)

Benjamin Ellis, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial Report From: 08/10/2017 09:48:08



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041723109

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965
Project: 2017.08.04 Burma Rd. (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 8/ 7/2017 8:15 AM
Analysis Date: 08/08/2017
Collected Date: 08/04/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0804-OFD-BPT-01 041723109-0001	WP017A AM Burma Rd.	1876.50	0.2130	2	None Detected		0.0010	<4.70	<0.0010
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.									
0804-OFD-BPT-02 041723109-0002	WP017A PM Burma Rd.	1948.40	0.2000	0	Actinolite Chrysotile	0 1 0 1	0.0010	5.00 5.00	0.00099 0.00099
Total for all types.....								10.00	0.0020
0804-OFD-BPT-03 041723109-0003	Field Blank 1	0.00	0.1250	0	None Detected		N/A	<8.00	N/A
0804-OFD-BPT-04 041723109-0004	Field Blank 2	0.00	0.1250	0	None Detected		N/A	<8.00	N/A

Analyst(s)
Matthew Dare (4)

Benjamin Ellis, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial Report From: 08/09/2017 12:21:31



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
 Tel/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com / cinnasblab@EMSL.com>

EMSL Order: 041723111
 Customer ID: SMGS78B
 Customer PO:
 Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
 Safety Management Systems
 1001 Brad Freeman Trail
 Trailer #2 / Safety Mgmt Systems
 Oroville, CA 95965
Project: 2017.08.04 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 8/ 7/2017 8:15 AM
Analysis Date: 08/07/2017 - 08/08/2017
Collected Date: 08/04/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0804-OFD-LRP-01	WP009A AM Launch Ramp Parking	1894.80	0.2130	3	Actinolite	0	1	0.0010	4.70	0.00096
041723111-0001										
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.										
0804-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1922.40	0.2130	0	Actinolite	0	1	0.0009	4.70	0.00094
					Chrysotile	0	1		4.70	0.00094
041723111-0002										
Total for all types.....									9.40	0.0019
0804-OFD-LRP-03	WP009A PM Launch Ramp Parking	1962.90	0.2000	1	Actinolite	1	0	0.0010	5.00	0.00098
041723111-0003										
0804-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1949.40	0.2000	1	Actinolite	0	2	0.0010	10.00	0.0020
041723111-0004										
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles.										
0804-OFD-LRP-FB1	Field Blank 1	0.00	0.1250	0	None Detected			N/A	<8.00	N/A
041723111-0005										
0804-OFD-LRP-FB2	Field Blank 2	0.00	0.1250	0	None Detected			N/A	<8.00	N/A
041723111-0006										

Analyst(s)
 Matthew Dare (6)

Benjamin Ellis, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial Report From: 08/08/2017 16:17:11



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040

Tel/Fax: (713) 686-3635 / (713) 686-3645

<http://www.EMSL.com / houstonlab@emsl.com>

EMSL Order: 151704607

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.05 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 7/2017 8:00 AM

Analysis Date: 08/11/2017 - 08/15/2017

Collected Date: 08/05/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0805-OFD-PMT-01 151704607-0001	WP246 AM Intake Yard	1917.00	0.2040	5	None Detected		0.0010	<4.90	<0.0010
0805-OFD-PMT-02 151704607-0002	WP247 AM Upper Overlook Entry	1912.60	0.2040	2	None Detected		0.0010	<4.90	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0805-OFD-PMT-03 151704607-0003	WP248 AM Upper Overlook	1918.00	0.2040	5	None Detected		0.0010	<4.90	<0.0010
0805-OFD-PMT-04 151704607-0004	WP249 AM Canyon Drive	1930.50	0.2040	3	None Detected		0.0010	<4.90	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0805-OFD-PMT-05 151704607-0005	WP246 PM Intake Yard	1977.40	0.2040	5	Actinolite	0 1	0.0010	4.90	0.00095
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0805-OFD-PMT-06 151704607-0006	WP247 PM Upper Overlook Entry	1961.00	0.2040	4	None Detected		0.0010	<4.90	<0.0010
0805-OFD-PMT-07 151704607-0007	WP248 PM Upper Overlook	1952.90	0.2040	4	None Detected		0.0010	<4.90	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0805-OFD-PMT-08 151704607-0008	WP249 PM Canyon Drive	1942.20	0.2040	3	None Detected		0.0010	<4.90	<0.0010
0805-OFD-PMT-FB1 151704607-0009	Field Blank 1	0.00	0.1200	0	None Detected		N/A	<8.30	N/A
0805-OFD-PMT-FB2 151704607-0010	Field Blank 2	0.00	0.1200	0	None Detected		N/A	<8.30	N/A



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040

Tel/Fax: (713) 686-3635 / (713) 686-3645

<http://www.EMSL.com> / houstonlab@emsl.com

EMSL Order: 151704607

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.05 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/7/2017 8:00 AM

Analysis Date: 08/11/2017 - 08/15/2017

Collected Date: 08/05/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)

Analyst(s)

Michelle Leggett (10)

Michelle Leggett, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Houston, TX NVLAP Lab Code 102106-0, AZ 0925, CO AL-15355, LA 04126, TX 300159

Initial report from: 08/16/2017 12:04:23



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040

Tel/Fax: (713) 686-3635 / (713) 686-3645

<http://www.EMSL.com / houstonlab@emsl.com>

EMSL Order: 151704611

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.05 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 8/2017 11:10 AM

Analysis Date: 08/16/2017 - 08/17/2017

Collected Date: 08/05/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0805-OFD-TPT-01	WP278 AM N. Diversion Dam	1863.00	0.2160	4	None Detected		0.0010	<4.60	<0.0010
151704611-0001									
0805-OFD-TPT-02	WP251 AM Diversion Dam Yard	1858.80	0.2160	2	None Detected		0.0010	<4.60	<0.0010
151704611-0002									
0805-OFD-TPT-03	WP279 AM SE Diversion Dam	1866.90	0.2160	1	None Detected		0.0010	<4.60	<0.0010
151704611-0003									
0805-OFD-TPT-04	WP277 AM SW Diversion Dam	1871.10	0.2160	0	None Detected		0.0010	<4.60	<0.0010
151704611-0004									
0805-OFD-TPT-05	WP019A AM E. Diversion Dam	1949.10	0.2160	0	None Detected		0.0009	<4.60	<0.0009
151704611-0005									
0805-OFD-TPT-06	WP020A AM SE Canal	1867.30	0.2160	1	None Detected		0.0010	<4.60	<0.0010
151704611-0006									
0805-OFD-TPT-07	WP021A AM SW Canal	1874.30	0.2160	1	None Detected		0.0010	<4.60	<0.0010
151704611-0007									
0805-OFD-TPT-08	WP281 AM Cherokee Rd.	1788.80	0.2160	2	None Detected		0.0010	<4.60	<0.0010
151704611-0008									
0805-OFD-TPT-09	WP278 PM N. Diversion Dam	2034.60	0.1920	1	None Detected		0.0010	<5.20	<0.0010
151704611-0009									
0805-OFD-TPT-10	WP251 PM Diversion Dam Yard	2039.30	0.1920	0	None Detected		0.0010	<5.20	<0.0010
151704611-0010									
0805-OFD-TPT-11	WP279 PM SE Diversion Dam	2026.40	0.1920	1	None Detected		0.0010	<5.20	<0.0010
151704611-0011									
0805-OFD-TPT-12	WP277 PM SW Diversion Dam	2013.50	0.1920	0	None Detected		0.0010	<5.20	<0.0010
151704611-0012									
0805-OFD-TPT-13	WP019A PM E Diversion Dam	1914.90	0.2040	0	None Detected		0.0010	<4.90	<0.0010
151704611-0013									
0805-OFD-TPT-14	WP020A PM SE Canal	2019.40	0.1920	1	None Detected		0.0010	<5.20	<0.0010
151704611-0014									
0805-OFD-TPT-15	WP021A PM SW Canal	1997.30	0.2040	3	None Detected		0.0009	<4.90	<0.0010
151704611-0015									
0805-OFD-TPT-16	WP281 PM Cherokee Rd.	2110.30	0.1920	0	None Detected		0.0010	<5.20	<0.0010
151704611-0016									
0805-OFD-TPT-FB1	Field Blank 1	0.00	0.1200	0	None Detected		N/A	<8.30	N/A
151704611-0017									

Initial report from: 08/17/2017 15:20:06



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040

Tel/Fax: (713) 686-3635 / (713) 686-3645

<http://www.EMSL.com/houstonlab@emsl.com>

EMSL Order: 151704611

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.05 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 8/2017 11:10 AM

Analysis Date: 08/16/2017 - 08/17/2017

Collected Date: 08/05/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
0805-OFD-TPT-FB2	Field Blank 2	0.00	0.1200	0	None Detected			N/A	<8.30	N/A
151704611-0018										

Analyst(s)

Michelle Leggett (18)

Michelle Leggett, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Houston, TX NVLAP Lab Code 102106-0, AZ 0925, CO AL-15355, LA 04126, TX 300159

Initial report from: 08/17/2017 15:20:06



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040

Tel/Fax: (713) 686-3635 / (713) 686-3645

<http://www.EMSL.com / houstonlab@emsl.com>

EMSL Order: 151704605

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017-08-05 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 7/2017 8:00 AM

Analysis Date: 08/09/2017 - 08/15/2017

Collected Date: 08/05/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0805-OFD-BPT-01 151704605-0001	WP017A AM Burma Road	2009.40	0.1920	2	None Detected		0.0010	<5.20	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0805-OFD-BPT-02 151704605-0002	WP017A PM Burma Road	1886.20	0.2160	8	None Detected		0.0009	<4.60	<0.0010
0805-OFD-BPT-FB1 151704605-0003	Field Blank 1	0.00	0.1200	0	None Detected		N/A	<8.30	N/A
0805-OFD-BPT-FB2 151704605-0004	Field Blank	0.00	0.1200	0	None Detected		N/A	<8.30	N/A

Analyst(s)

Michelle Leggett (1)

Michelle Leggett (3)

Michelle Leggett, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Houston, TX NVLAP Lab Code 102106-0, AZ 0925, CO AL-15355, LA 04126, TX 300159

Initial report from: 08/11/2017 11:36:52



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040

Tel/Fax: (713) 686-3635 / (713) 686-3645

<http://www.EMSL.com/houstonlab@emsl.com>

EMSL Order: 151704606

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.05 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 8/2017 8:00 AM

Analysis Date: 08/10/2017

Collected Date: 08/05/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0805-OFD-LPR-01	WP009A AM Launch Ramp Parking	1925.10	0.2040	4	None Detected		0.0010	<4.90	<0.0010
151704606-0001									
0805-OFD-LPR-02	WP010A AM Launch Ramp Turnaround	1917.00	0.2040	3	None Detected		0.0010	<4.90	<0.0010
151704606-0002									
0805-OFD-LPR-03	WP009A PM Launch Ramp Parking	1695.50	0.2280	2	None Detected		0.0010	<4.40	<0.0010
151704606-0003									
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0805-OFD-LPR-04	WP010A PM Launch Ramp Turnaround	1955.60	0.2040	1	None Detected		0.0010	<4.90	<0.0010
151704606-0004									
0805-OFD-LPR-FB1	Field Blank 1	0.00	0.1200	0	None Detected		N/A	<8.30	N/A
151704606-0005									
0805-OFD-LPR-FB2	Field Blank 2	0.00	0.1200	0	None Detected		N/A	<8.30	N/A
151704606-0006									

Analyst(s)

Michelle Leggett (6)

Michelle Leggett, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Houston, TX NVLAP Lab Code 102106-0, AZ 0925, CO AL-15355, LA 04126, TX 300159

Initial report from: 08/11/2017 11:23:47



LA Testing

520 Mission Street South Pasadena, CA 91030
 Tel/Fax: (323) 254-9960 / (323) 254-9982
<http://www.LATesting.com / pasadenalab@latesting.com>

LA Testing Order: 321718714
Customer ID: SMGS78B
Customer PO:
Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
 Safety Management Systems
 1001 Brad Freeman Trail
 Trailer #2 / Safety Mgmt Systems
 Oroville, CA 95965
Project: 2017.08.06 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 8/ 8/2017 9:30 AM
Analysis Date: 08/09/2017 - 08/10/2017
Collected Date: 08/06/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0806-OFD-PMT-01 321718714-0001	WP246 AM Intake yard	1923.30	0.2050	6	Actinolite	1	0	0.0010	4.90	0.00098
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0806-OFD-PMT-02 321718714-0002	WP247 AM Upper overlook entry	1920.70	0.2050	7	Actinolite	0	1	0.0010	4.90	0.00098
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0806-OFD-PMT-03 321718714-0003	WP248 AM Upper overlook	1930.50	0.2050	7	Actinolite	1	0	0.0010	4.90	0.00097
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0806-OFD-PMT-04 321718714-0004	WP249 AM Canyon drive	1928.70	0.2050	4	None Detected			0.0010	<4.90	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0806-OFD-PMT-05 321718714-0005	WP246 PM Intake yard	1948.50	0.2050	7	Actinolite	3	1	0.0010	20.00	0.0039
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0806-OFD-PMT-06 321718714-0006	WP247 PM Upper overlook entry	1933.20	0.2050	4	Actinolite	0	2	0.0010	9.80	0.0019
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0806-OFD-PMT-07 321718714-0007	WP248 PM Upper overlook	1926.00	0.2050	20	Actinolite	1	2	0.0010	15.00	0.0029
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0806-OFD-PMT-08 321718714-0008	WP249 PM Canyon drive	1940.40	0.2050	4	Actinolite	0	3	0.0010	15.00	0.0029
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0806-OFD-PMT-FB1 321718714-0009	Field blank 1	0.00	0.1280	0	None Detected			N/A	<7.80	N/A
0806-OFD-PMT-FB2 321718714-0010	Field blank 2	0.00	0.1280	0	None Detected			N/A	<7.80	N/A



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com> / pasadenalab@latesting.com

LA Testing Order: 321718714

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.06 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 8/2017 9:30 AM

Analysis Date: 08/09/2017 - 08/10/2017

Collected Date: 08/06/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)

Analyst(s)

Sherrie Ahmad (10)

Jerry Drapala Ph.D, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0

Initial report from: 08/10/2017 19:42:50



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
 Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffaloab@emsl.com>

EMSL Order: 141704076
 Customer ID: SMGS78B
 Customer PO:
 Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
 Safety Management Systems
 1001 Brad Freeman Trail
 Trailer #2 / Safety Mgmt Systems
 Oroville, CA 95965
Project: 2017.08.06 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 8/ 8/2017 8:50 AM
Analysis Date: 08/08/2017 - 08/09/2017
Collected Date: 08/06/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0806-OFD-TPT-01	WP278 AM N. Diversion Dam	1859.10	0.2110	1	None Detected			0.0010	<4.70	<0.0010
141704076-0001										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0806-OFD-TPT-02	WP251 AM Diversion Dam Yard	1842.70	0.2110	1	None Detected			0.0010	<4.70	<0.0010
141704076-0002										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0806-OFD-TPT-03	WP279 AM SE Diversion Dam	1840.00	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141704076-0003										
0806-OFD-TPT-04	WP277 AM SW Diversion Dam	1840.00	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141704076-0004										
0806-OFD-TPT-05	WP019A AM E. Diversion Dam	1840.00	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141704076-0005										
0806-OFD-TPT-06	WP020A AM SE Canal	1815.60	0.2240	0	Actinolite Chrysotile	0 1	1 0	0.0009	4.50 4.50	0.00094 0.00094
141704076-0006										
					Total for all types.....				9.00	0.0019
0806-OFD-TPT-07	WP021A AM SW Canal	1836.90	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141704076-0007										
0806-OFD-TPT-08	WP281 AM Cherokee Rd.	1817.00	0.2240	0	None Detected			0.0009	<4.50	<0.0009
141704076-0008										
0806-OFD-TPT-09	WP278 PM N. Diversion Dam	2050.20	0.1980	0	None Detected			0.0009	<5.10	<0.0010
141704076-0009										
0806-OFD-TPT-10	WP251 PM Diversion Dam Yard	2057.70	0.1980	0	None Detected			0.0009	<5.10	<0.0010
141704076-0010										
0806-OFD-TPT-11	WP279 PM SE Diversion Dam	2042.70	0.1980	0	None Detected			0.0010	<5.10	<0.0010
141704076-0011										
0806-OFD-TPT-12	WP277 PM SW Diversion Dam	2045.40	0.1980	0	None Detected			0.0010	<5.10	<0.0010
141704076-0012										
0806-OFD-TPT-13	WP019A PM E Diversion Dam	2058.40	0.1980	0	None Detected			0.0009	<5.10	<0.0010
141704076-0013										
0806-OFD-TPT-14	WP020A PM SE Canal	2058.40	0.1980	2	None Detected			0.0009	<5.10	<0.0010
141704076-0014										
0806-OFD-TPT-15	WP021A PM SW Canal	2048.20	0.1980	2	None Detected			0.0009	<5.10	<0.0010
141704076-0015										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles										

Initial report from: 08/09/2017 07:36:04



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043

Tel/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 141704076

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.06 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 8/2017 8:50 AM

Analysis Date: 08/08/2017 - 08/09/2017

Collected Date: 08/06/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm ²)	(S/cc)
0806-OFD-TPT-16 141704076-0016	WP281 PM Cherokee Rd.	2053.60	0.1980	0	Actinolite	0	1	0.0009	5.10	0.00095
0806-OFD-TPT-FB1 141704076-0017	Field Blank 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
0806-OFD-TPT-FB2 141704076-0018	Field Blank 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A

Analyst(s)

Mark Tate (12)

Peter Donato (6)

Rhonda McGee

Rhonda McGee, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 08/09/2017 07:36:04



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com> / pasadenalab@latesting.com

LA Testing Order: 321718716

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.06 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 8/2017 9:30 AM

Analysis Date: 08/10/2017

Collected Date: 08/06/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
0806-OFD-BPT-01 321718716-0001	WP017A AM Burma Rd	1884.00	0.2050	8	None Detected			0.0010	<4.90	<0.0010
0806-OFD-BPT-02 321718716-0002	WP017A PM Burma Rd	2002.70	0.2050	5	None Detected			0.0009	<4.90	<0.0009
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0806-OFD-BPT-FB1 321718716-0003	Field blank 1	0.00	0.1280	0	None Detected			N/A	<7.80	N/A
0806-OFD-BPT-FB2 321718716-0004	Field blank 2	0.00	0.1280	0	None Detected			N/A	<7.80	N/A

Analyst(s)

Kyeong Corbin (4)

Jerry Drapala Ph.D, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0

Initial Report From: 08/11/2017 07:26:46



LA Testing

520 Mission Street South Pasadena, CA 91030
 Tel/Fax: (323) 254-9960 / (323) 254-9982
<http://www.LATesting.com / pasadenalab@latesting.com>

LA Testing Order: 321718713
 Customer ID: SMGS78B
 Customer PO:
 Project ID: Oroville EM OP


Attention: Dave Beadle, CIH
 Safety Management Systems
 1001 Brad Freeman Trail
 Trailer #2 / Safety Mgmt Systems
 Oroville, CA 95965
Project: 2017.08.06 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 8/ 8/2017 9:30 AM
Analysis Date: 08/10/2017
Collected Date: 08/06/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0806-OFD-LRP-01	WP009A AM Launch ramp parking	1927.80	0.2050	11	Actinolite	1	1	0.0010	9.80	0.0020
321718713-0001 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0806-OFD-LRP-02	WP010A AM Launch ramp turnaround	1937.70	0.2050	11	Actinolite	0	1	0.0010	4.90	0.00097
321718713-0002 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0806-OFD-LRP-03	WP009A PM Launch ramp parking	1961.10	0.2050	8	None Detected			0.0010	<4.90	<0.0010
321718713-0003 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0806-OFD-LRP-04	WP010A PM Launch ramp turnaround	1949.40	0.2050	6	None Detected			0.0010	<4.90	<0.0010
321718713-0004 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0806-OFD-LRP-FB1	Field blank 1	0.00	0.1280	0	None Detected			N/A	<7.80	N/A
321718713-0005										
0806-OFD-LRP-FB2	Field blank 2	0.00	0.1280	0	None Detected			N/A	<7.80	N/A
321718713-0006										

Analyst(s)
 Kyeong Corbin (6)


 Jerry Drapala Ph.D, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0

Initial Report From: 08/11/2017 07:36:26



EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106

Tel/Fax: (207) 517-6921 / (207) 517-6922

<http://www.EMSL.com> / portlandlab@emsl.com

EMSL Order: 621701255

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP


Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965
Project: 2017.08.07 Upper Area (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 8/ 9/2017 10:00 AM
Analysis Date: 08/16/2017 - 08/18/2017
Collected Date: 08/07/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0807-OFD-PMT-01 621701255-0001	WP246 AM Intake Yard	1917.00	0.2110	0	None Detected		0.0010	<4.70	<0.0010
0807-OFD-PMT-02 621701255-0002	WP247 AM Upper Overlook Entry	1905.50	0.2110	0	None Detected		0.0010	<4.70	<0.0010
0807-OFD-PMT-03 621701255-0003	WP248 AM Upper Overlook	1908.20	0.2110	2	None Detected		0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0807-OFD-PMT-04 621701255-0004	WP249 Am Canyon Drive	1918.00	0.2110	2	None Detected		0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0807-OFD-PMT-05 621701255-0005	WP246 PM Intake Yard	1959.30	0.1980	0	None Detected		0.0010	<5.10	<0.0010
0807-OFD-PMT-06 621701255-0006	WP247 PM Upper Overlook Entry	1959.30	0.1980	2	Actinolite	0 1	0.0010	5.10	0.00099
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0807-OFD-PMT-07 621701255-0007	WP248 PM Upper Overlook	1952.10	0.1980	0	None Detected		0.0010	<5.10	<0.0010
0807-OFD-PMT-08 621701255-0008	WP249 PM Canyon Drive	1944.90	0.1980	0	None Detected		0.0010	<5.10	<0.0010
0807-OFD-PMT-FB1 621701255-0009	Fieldn Blank 1	0.00	0.1320	0	None Detected		N/A	<7.60	N/A
0807-OFD-PMT-FB2 621701255-0010	Fieldn Blank 2	0.00	0.1320	0	None Detected		N/A	<7.60	N/A

Analyst(s)
Christina Lentz (10)


Christina Lentz, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial Report From: 08/18/2017 11:36:06



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@latesting.com

LA Testing Order: 331715347

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965

Project: 2017.08.07 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 9/2017 10:20 AM

Analysis Date: 08/15/2017 - 08/16/2017

Collected Date: 08/07/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0807-OFD-TPT-01	WP278 AM N. Diversion Dam	1838.50	0.2110	3	None Detected			0.0010	<4.70	<0.0010
331715347-0001										
0807-OFD-TPT-02	WP251 AM Diversion Dam Yard	1838.50	0.2110	0	None Detected			0.0010	<4.70	<0.0010
331715347-0002										
0807-OFD-TPT-03	WP279 AM SE Diversion Dam	1829.00	0.2110	0	None Detected			0.0010	<4.70	<0.0010
331715347-0003										
0807-OFD-TPT-04	WP277 AM SW Diversion Dam	1845.30	0.2110	1	None Detected			0.0010	<4.70	<0.0010
331715347-0004										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0807-OFD-TPT-05	WP019A AM E. Diversion Dam	1838.50	0.2110	0	None Detected			0.0010	<4.70	<0.0010
331715347-0005										
0807-OFD-TPT-06	WP020A AM SE Canal	1841.20	0.2110	1	None Detected			0.0010	<4.70	<0.0010
331715347-0006										
0807-OFD-TPT-07	WP021A AM SW Canal	1841.20	0.2110	1	None Detected			0.0010	<4.70	<0.0010
331715347-0007										
0807-OFD-TPT-08	WP281 AM Cherokee Rd.	1848.00	0.1980	0	None Detected			0.0010	<5.10	<0.0010
331715347-0008										
0807-OFD-TPT-09	WP278 PM N. Diversion Dam	2047.50	0.1980	0	None Detected			0.0009	<5.10	<0.0009
331715347-0009										
0807-OFD-TPT-10	WP251 PM Diversion Dam Yard	2062.50	0.1980	0	None Detected			0.0009	<5.10	<0.0009
331715347-0010										
0807-OFD-TPT-11	WP279 PM SE Diversion Dam	2029.80	0.1980	0	None Detected			0.0010	<5.10	<0.0010
331715347-0011										
0807-OFD-TPT-12	WP277 PM SW Diversion Dam	2044.80	0.1980	0	None Detected			0.0010	<5.10	<0.0010
331715347-0012										
0807-OFD-TPT-13	WP019A PM E Diversion Dam	2047.50	0.1980	0	Actinolite	0	1	0.0010	5.10	0.00095
331715347-0013										
0807-OFD-TPT-14	WP020A PM SE Canal	2032.50	0.1980	0	None Detected			0.0010	<5.10	<0.0010
331715347-0014										
0807-OFD-TPT-15	WP021A PM SW Canal	2029.80	0.1980	0	None Detected			0.0010	<5.10	<0.0010
331715347-0015										
0807-OFD-TPT-16	WP281 PM Cherokee Rd.	2040.00	0.1980	2	None Detected			0.0010	<5.10	<0.0010
331715347-0016										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles										

Report amended: 08/16/2017 11:37:06 Replaces initial report from: 08/16/2017 07:23:50 Reason Code: Data Entry-Change to Project



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@latesting.com

LA Testing Order: 331715347

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.07 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 9/2017 10:20 AM

Analysis Date: 08/15/2017 - 08/16/2017

Collected Date: 08/07/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
0807-OFD-TPT-FB-1 331715347-0017	Field Blank 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
0807-OFD-TPT-FB-2 331715347-0018	Field Blank 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A

Analyst(s)

Mark Tate (13)

Peter Donato (5)

Michael DeCavallas, Laboratory Manager
or other approved signatory

LA Testing is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above and may not be reproduced except in full, without written approval by LA Testing. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Sample received in acceptable condition unless otherwise noted. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Depew, NY

Report amended: 08/16/2017 11:37:06 Replaces initial report from: 08/16/2017 07:23:50 Reason Code: Data Entry-Change to Project



EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106

Tel/Fax: (207) 517-6921 / (207) 517-6922

<http://www.EMSL.com> / portlandlab@emsl.com

EMSL Order: 621701252

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.07 Bruma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/9/2017 10:00 AM

Analysis Date: 08/11/2017

Collected Date: 08/07/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5	≥5μ		(S/mm ²)	(S/cc)
0807-OFD-BRP-01 621701252-0001	WP017A AM Bruma Road	1900.10	0.2110	2	None Detected			0.0010	<4.70	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0807-OFD-BRP-02 621701252-0002	WP017A PM Bruma Road	1966.40	0.1980	0	None Detected			0.0010	<5.10	<0.0010
0807-OFD-BRP-FB1 621701252-0003	Field Blank 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
0807-OFD-BRP-FB2 621701252-0004	Field Blank 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A

Analyst(s)

Christina Lentz (4)

Christina Lentz, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial Report From: 08/11/2017 15:51:37



EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106

Tel/Fax: (207) 517-6921 / (207) 517-6922

<http://www.EMSL.com> / portlandlab@emsl.com

EMSL Order: 621701254

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.07 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/ 9/2017 10:00 AM

Analysis Date: 08/11/2017 - 08/14/2017

Collected Date: 08/07/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0807-OFD-LRP-01	WP009A AM Launch Ramp Parking	1906.20	0.2110	4	None Detected		0.0010	<4.70	<0.0010
621701254-0001 Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0807-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1886.70	0.2110	0	None Detected		0.0010	<4.70	<0.0010
621701254-0002									
0807-OFD-LRP-03	WP009A PM Launch Ramp Parking	1962.00	0.1980	0	None Detected		0.0010	<5.10	<0.0010
621701254-0003									
0807-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1974.70	0.1980	0	None Detected		0.0010	<5.10	<0.0010
621701254-0004									
0807-OFD-LRP-FB1	Field Blank 1	0.00	0.1320	0	None Detected		N/A	<7.60	N/A
621701254-0005									
0807-OFD-LRP-FB2	Field Blank 2	0.00	0.1320	0	None Detected		N/A	<7.60	N/A
621701254-0006									

Analyst(s)

Christina Lentz (6)

Christina Lentz, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. South Portland, ME

Initial Report From: 08/14/2017 13:12:57



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978

<http://www.EMSL.com> / wallingfordlab@emsl.com

EMSL Order: 241703394

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.08 UPPER AREA (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/10/2017 10:30 AM

Analysis Date: 08/15/2017 - 08/16/2017

Collected Date: 08/08/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures $\geq 0.5\mu < 5\mu$	$\geq 5\mu$	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0808-OFD-PMT-01	WP246 AM INTAKE YARD	1954.80	0.1980	3	Actinolite	1	2	0.0010	15.00	0.0030
241703394-0001										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-PMT-02	WP247 AM UPPER OVERLOOK ENTRY	1957.50	0.1980	6	Actinolite	1	2	0.0010	15.00	0.0030
241703394-0002										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-PMT-03	WP248 AM UPPER OVERLOOK	1954.80	0.1980	5	Actinolite	1	0	0.0010	5.10	0.00099
241703394-0003										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-PMT-04	WP249 AM CANYON DRIVE	1327.90	0.2900	7	Actinolite	2	0	0.0010	6.90	0.0020
241703394-0004										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-PMT-05	WP246 PM INTAKE YARD	1949.40	0.1980	1	Actinolite	2	1	0.0010	15.00	0.0030
241703394-0005										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-PMT-06	WP247 PM UPPER OVERLOOK ENTRY	1945.80	0.1980	0	Actinolite	4	1	0.0010	25.00	0.0050
241703394-0006										
0808-OFD-PMT-07	WP248 PM UPPER OVERLOOK	1943.10	0.2110	4	None Detected			0.0009	<4.70	<0.0009
241703394-0007										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-PMT-08	WP249 PM CANYON DRIVE	1944.00	0.2110	4	Actinolite	2	3	0.0009	24.00	0.0047
241703394-0008										
0808-OFD-PMT-FB1	FIELD BLANK 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
241703394-0009										
0808-OFD-PMT-FB2	FIELD BLANK 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
241703394-0010										



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978

<http://www.EMSL.com> / wallingfordlab@emsl.com

EMSL Order: 241703394

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.08 UPPER AREA (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/10/2017 10:30 AM

Analysis Date: 08/15/2017 - 08/16/2017

Collected Date: 08/08/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)

Analyst(s)

Almedina Hodzic (10)

Lauren Brennan, Asbestos Lab Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0, CT PH-0322, MA AA000191, RI AAL-108T3, VT AL357101

Initial report from: 08/16/2017 14:43:00



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com> / pasadenalab@latesting.com

LA Testing Order: 321718939

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.08 DIVERSION DAM (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/10/2017 9:40 AM

Analysis Date: 08/11/2017 - 08/14/2017

Collected Date: 08/08/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0808-OFD-TPT-01	WP278 AM N. DIVERSION DAM	1846.50	0.2180	7	Actinolite	0	1	0.0010	4.60	0.00096
321718939-0001 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0808-OFD-TPT-02	WP251 AM DIVERSION DAM YARD	1846.50	0.2180	12	None Detected			0.0010	<4.60	<0.0010
321718939-0002 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0808-OFD-TPT-03	WP279 AM SE DIVERSION DAM	1853.40	0.2180	4	Actinolite	0	1	0.0010	4.60	0.00095
321718939-0003 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0808-OFD-TPT-04	WP277 AM SW DIVERSION DAM	1856.10	0.2180	6	None Detected			0.0010	<4.60	<0.0010
321718939-0004 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0808-OFD-TPT-05	WP019A AM E. DIVERSION DAM	1837.00	0.2180	4	Actinolite	0	1	0.0010	4.60	0.00096
321718939-0005										
0808-OFD-TPT-06	WP020A AM SE CANAL	1859.90	0.2180	13	Actinolite	1	0	0.0010	4.60	0.00095
321718939-0006 Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-TPT-07	WP021A AM SW CANAL	1862.60	0.2180	10	None Detected			0.0010	<4.60	<0.0010
321718939-0007 Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-TPT-08	WP281 AM CHEROKEE RD.	1863.00	0.2180	4	Actinolite	1	0	0.0010	4.60	0.00095
321718939-0008 Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-TPT-09	WP278 PM N. DIVERSION DAM	2178.80	0.1920	8	Actinolite	1	0	0.0009	5.20	0.00092
321718939-0009 Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-TPT-10	WP251 PM DIVERSION DAM YARD	2213.80	0.1790	11	None Detected			0.0010	<5.60	<0.0010
321718939-0010 Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-TPT-11	WP279 PM SE DIVERSION DAM	2189.60	0.1790	5	None Detected			0.0010	<5.60	<0.0010
321718939-0011 Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0808-OFD-TPT-12	WP277 PM SW DIVERSION DAM	2195.00	0.1790	5	None Detected			0.0010	<5.60	<0.0010
321718939-0012 Non-asbestos structures reported include a contribution from non-regulated amphiboles.										

Initial report from: 08/14/2017 19:21:44



LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

<http://www.LATesting.com/pasadenalab@latesting.com>

LA Testing Order: 321718939

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965

Project: 2017.08.08 DIVERSION DAM (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/10/2017 9:40 AM

Analysis Date: 08/11/2017 - 08/14/2017

Collected Date: 08/08/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μ	#Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	Asbestos Concentration (S/cc)
0808-OFD-TPT-13	WP019A PM E DIVERSION DAM	2216.70	0.1790	11	None Detected			0.0010	<5.60	<0.0010
321718939-0013 Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-TPT-14	WP020A PM SE CANAL	2195.00	0.1790	12	None Detected			0.0010	<5.60	<0.0010
321718939-0014 Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-TPT-15	WP021A PM SW CANAL	2200.50	0.1790	19	None Detected			0.0010	<5.60	<0.0010
321718939-0015 Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-TPT-16	WP281 PM CHEROKEE RD.	2225.00	0.1790	11	Actinolite	0	1	0.0010	5.60	0.00097
321718939-0016 Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-TPT-FB1	FIELD BLANK 1	0.00	0.1280	0	None Detected			N/A	<7.80	N/A
321718939-0017										
0808-OFD-TPT-FB2	FIELD BLANK 2	0.00	0.1280	0	None Detected			N/A	<7.80	N/A
321718939-0018										

Analyst(s)

Feng Liang (5)

Kyeong Corbin (13)

Jerry Drapala Ph.D, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0

Initial report from: 08/14/2017 19:21:44



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978

<http://www.EMSL.com / wallingfordlab@emsl.com>

EMSL Order: 241703391

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
Safety Management Systems
1001 Brad Freeman Trail
Trailer #2 / Safety Mgmt Systems
Oroville, CA 95965

Project: 2017.08.08 BURMA RD (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/10/2017 10:30 AM

Analysis Date: 08/14/2017

Collected Date: 08/08/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
0808-OFD-BPT-01	WP017A AM BURMA ROAD	1848.00	0.2110	1	None Detected			0.0010	<4.70	<0.0010
241703391-0001										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-BPT-02	WP017A PM BURMA ROAD	2033.60	0.1980	4	None Detected			0.0010	<5.10	<0.0010
241703391-0002										
0808-OFD-BPT-03	FIELD BLANK 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
241703391-0003										
0808-OFD-BPT-04	FIELD BLANK 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
241703391-0004										

Analyst(s)

Almedina Hodzic (4)

Lauren Brennan, Asbestos Lab Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0, CT PH-0322, MA AA000191, RI AAL-108T3, VT AL357101

Initial report from: 08/14/2017 10:09:56



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978

<http://www.EMSL.com> / wallingfordlab@emsl.com

EMSL Order: 241703393

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.08 LAUNCH RAMP (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/10/2017 10:30 AM

Analysis Date: 08/14/2017 - 08/15/2017

Collected Date: 08/08/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures $\geq 0.5\mu < 5\mu$	#Structures $\geq 5\mu$	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	Asbestos Concentration (S/cc)
0808-OFD-LRP-01	WP009A AM LAUNCH RAMP PARKING	1937.60	0.2110	5	Actinolite	2	2	0.0009	19.00	0.0038
241703393-0001										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-LRP-02	WP010A AM LAUNCH RAMP TURNAROUND	1935.80	0.2110	1	Actinolite	1	2	0.0009	14.00	0.0028
241703393-0002										
0808-OFD-LRP-03	WP009A PM LAUNCH RAMP PARKING	1960.20	0.1980	4	Actinolite	2	2	0.0010	20.00	0.0040
241703393-0003										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-LRP-04	WP010A PM LAUNCH TURNAROUND	1969.30	0.1980	4	Actinolite	1	0	0.0010	5.10	0.00099
241703393-0004										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0808-OFD-LRP-FB1	FIELD BLANK 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
241703393-0005										
0808-OFD-LRP-FB2	FIELD BLANK 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
241703393-0006										

Analyst(s)

Almedina Hodzic (6)

Lauren Brennan, Asbestos Lab Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0, CT PH-0322, MA AA000191, RI AAL-108T3, VT AL357101

Initial report from: 08/15/2017 11:13:34



EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com> / lasvegaslab@EMSL.com

EMSL Order: 311700388

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.09 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/11/2017 9:30 AM

Analysis Date: 08/15/2017 - 08/16/2017

Collected Date: 08/09/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0809-OFD-PMT-01 311700388-0001	WP246 AM Intake Yard	1915.30	0.2030	21	Actinolite	2	2	0.0010	20.00	0.0040
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0809-OFD-PMT-02 311700388-0002	WP247 AM Upper Overlook Entry	1931.40	0.2030	30	Actinolite	2	2	0.0010	20.00	0.0039
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0809-OFD-PMT-03 311700388-0003	WP248 AM Upper Overlook	1924.20	0.2030	13	Actinolite	3	1	0.0010	20.00	0.0039
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0809-OFD-PMT-04 311700388-0004	WP249 AM Canyon Drive	1934.10	0.2030	15	Actinolite	1	0	0.0010	4.90	0.00098
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0809-OFD-PMT-05 311700388-0005	WP246 PM Intake Yard	1971.00	0.2160	7	None Detected			0.0009	<4.60	<0.0009
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0809-OFD-PMT-06 311700388-0006	WP247 PM Upper Overlook Entry	1978.30	0.2030	12	Actinolite	2	1	0.0010	15.00	0.0029
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0809-OFD-PMT-07 311700388-0007	WP248 PM Upper Overlook	1991.00	0.2030	27	Actinolite	4	1	0.0010	25.00	0.0048
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0809-OFD-PMT-08 311700388-0008	WP249 PM Canyon Drive	1962.90	0.2030	24	Actinolite	2	0	0.0010	9.80	0.0019
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0809-OFD-PMT-FB1 311700388-0009	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
0809-OFD-PMT-FB2 311700388-0010	Field Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	N/A



EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com> / lasvegaslab@EMSL.com

EMSL Order: 311700388

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.09 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/11/2017 9:30 AM

Analysis Date: 08/15/2017 - 08/16/2017

Collected Date: 08/09/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)

Analyst(s)

William Bradford (10)

Shannon Ferguson, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Las Vegas, NV

Report amended: 08/18/2017 08:20:06 Replaces initial report from: 08/17/2017 09:11:39 Reason Code: Data Entry-Change to Location



EMSL Analytical, Inc.

376 Crompton Street Charlotte, NC 28273

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / charlottelab@emsl.com

EMSL Order: 411706147

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.09 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/11/2017 9:45 AM

Analysis Date: 08/12/2017 - 08/14/2017

Collected Date: 08/09/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0809-OFD-TPT-01	WP278 AM N. Diversion Dam	1822.50	0.2210	4	None Detected		0.0010	<4.50	<0.0010
411706147-0001 Non-asbestos structures reported includes a contribution from non-regulated amphiboles									
0809-OFD-TPT-02	WP251 AM Diversion Dam Yard	1826.50	0.2210	0	None Detected		0.0010	<4.50	<0.0010
411706147-0002									
0809-OFD-TPT-03	WP279 AM SE Diversion Dam	1817.10	0.2210	7	None Detected		0.0010	<4.50	<0.0010
411706147-0003 Non-asbestos structures reported includes a contribution from non-regulated amphiboles									
0809-OFD-TPT-04	WP277 AM SW Diversion Dam	1792.30	0.2210	6	Actinolite	0 1	0.0010	4.50	0.00097
411706147-0004 Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									
0809-OFD-TPT-05	WP019A AM E. Diversion Dam	1822.40	0.2210	4	None Detected		0.0010	<4.50	<0.0010
411706147-0005									
0809-OFD-TPT-06	WP020A AM SE Canal	1800.90	0.2210	1	Actinolite	1 0	0.0010	4.50	0.00097
411706147-0006 Non-asbestos structures reported includes a contribution from non-regulated amphiboles									
0809-OFD-TPT-07	WP021A AM SW Canal	1787.40	0.2210	2	Actinolite	1 0	0.0010	4.50	0.00097
411706147-0007 Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									
0809-OFD-TPT-08	WP281 AM Cherokee Rd.	1799.10	0.2210	0	None Detected		0.0010	<4.50	<0.0010
411706147-0008									
0809-OFD-TPT-09	WP278 PM N. Diversion Dam	2066.00	0.1950	1	None Detected		0.0010	<5.10	<0.0010
411706147-0009 Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									
0809-OFD-TPT-10	WP251 PM Diversion Dam Yard	2050.90	0.1950	0	None Detected		0.0010	<5.10	<0.0010
411706147-0010									
0809-OFD-TPT-11	WP279 PM SE Diversion Dam	2050.90	0.1950	0	None Detected		0.0010	<5.10	<0.0010
411706147-0011									
0809-OFD-TPT-12	WP277 PM SW Diversion Dam	2058.40	0.1950	3	None Detected		0.0010	<5.10	<0.0010
411706147-0012 Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									
0809-OFD-TPT-13	WP019A PM E Diversion Dam	2040.60	0.1950	1	None Detected		0.0010	<5.10	<0.0010
411706147-0013 Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									

Initial Report From: 08/15/2017 13:44:42



EMSL Analytical, Inc.

376 Crompton Street Charlotte, NC 28273

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com / charlottelab@emsl.com>

EMSL Order: 411706147

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.09 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/11/2017 9:45 AM

Analysis Date: 08/12/2017 - 08/14/2017

Collected Date: 08/09/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 μm ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0809-OFD-TPT-14 411706147-0014	WP020A PM SE Canal	2066.60	0.1950	0	None Detected		0.0010	<5.10	<0.0010
0809-OFD-TPT-15 411706147-0015	WP021A PM SW Canal	2077.50	0.1950	2	None Detected		0.0010	<5.10	<0.0010
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									
0809-OFD-TPT-16 411706147-0016	WP281 PM Cherokee Rd.	2065.00	0.1950	4	None Detected		0.0010	<5.10	<0.0010
Non-asbestos structures reported above includes a contribution from non-regulated amphiboles									
0809-OFD-TPT-FB1 411706147-0017	Field Blank 1	0.00	0.1430	0	None Detected		N/A	<7.00	N/A
0809-OFD-TPT-FB2 411706147-0018	Field Blank 2	0.00	0.1300	0	None Detected		N/A	<7.70	N/A

Analyst(s)

Aaron Hartley (10)

Derrick Young (8)

Lee Plumley, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Charlotte, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial Report From: 08/15/2017 13:44:42



EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com / lasvegaslab@EMSL.com>

EMSL Order: 311700386

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.09 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/11/2017 9:30 AM

Analysis Date: 08/16/2017

Collected Date: 08/09/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0809-OFD-BPT-01 311700386-0001	WP017A AM Burma Road	1896.50	0.2030	7	Actinolite	0	1	0.0010	4.90	0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0809-OFD-BPT-02 311700386-0002	WP017A PM Burma Road	1964.40	0.2030	10	None Detected			0.0010	<4.90	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0809-OFD-BPT-FB1 311700386-0003	Field Blank 1	0.00	0.1270	0	None Detected			N/A	<7.90	N/A
0809-OFD-BPT-FB2 311700386-0004	Feild Blank 2	0.00	0.1270	0	None Detected			N/A	<7.90	N/A

Analyst(s)

William Bradford (4)

Shannon Ferguson, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Las Vegas, NV

Report amended: 08/18/2017 08:15:54 Replaces initial report from: 08/17/2017 08:44:24 Reason Code: Data Entry-Change to Location



EMSL Analytical, Inc.

6325 Harrison Dr. Suites 3 and 4 Las Vegas, NV 89120

Tel/Fax: (702) 931-3532 / (702) 931-3533

<http://www.EMSL.com / lasvegaslab@EMSL.com>

EMSL Order: 311700387

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.09 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/11/2017 9:30 AM

Analysis Date: 08/17/2017

Collected Date: 08/09/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0809-OFD-LRP-01	WP009A AM Launch Ramp Parking	1908.90	0.2060	30	Actinolite	1	1	0.0010	9.70	0.0020
311700387-0001 Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0809-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1889.40	0.2060	13	None Detected			0.0010	<4.80	<0.0010
311700387-0002										
0809-OFD-LRP-03	WP009A PM Launch Ramp Parking	1992.90	0.1940	15	Actinolite	1	0	0.0010	5.20	0.0010
311700387-0003 Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0809-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1981.80	0.2060	16	Actinolite	0	1	0.0009	4.80	0.00094
311700387-0004 Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0809-OFD-LRP-FB1	Field Blank 1	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
311700387-0005										
0809-OFD-LRP-FB2	Field Blank 2	0.00	0.1290	0	None Detected			N/A	<7.80	N/A
311700387-0006										

Analyst(s)

William Bradford (6)

Shannon Ferguson, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Las Vegas, NV

Initial Report From: 08/18/2017 06:53:15



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@lateesting.com

LA Testing Order: 331715662

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.10 Upper Area (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/12/2017 9:00 AM

Analysis Date: 08/18/2017

Collected Date: 08/10/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5 ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0810-OFD-PMT-01 331715662-0001	WP246 AM Intake Yard	1916.20	0.2130	1	None Detected		0.0009	<4.70	<0.0010
0810-OFD-PMT-02 331715662-0002	WP247 AM Upper Overlook Entry	1910.80	0.2130	0	None Detected		0.0009	<4.70	<0.0010
0810-OFD-PMT-03 331715662-0003	WP248 AM Upper Overlook	1905.50	0.2130	1	None Detected		0.0010	<4.70	<0.0010
0810-OFD-PMT-04 331715662-0004	WP249 AM Canyon Drive	1926.00	0.2000	0	None Detected		0.0010	<5.00	<0.0010
0810-OFD-PMT-05 331715662-0005	WP246 PM Intake Yard	1977.40	0.2000	1	None Detected		0.0010	<5.00	<0.0010
0810-OFD-PMT-06 331715662-0006	WP247 PM Upper Overlook Entry	1967.50	0.2000	4	None Detected		0.0010	<5.00	<0.0010
0810-OFD-PMT-07 331715662-0007	WP248 PM Upper Overlook	1967.50	0.2000	8	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0810-OFD-PMT-08 331715662-0008	WP249 PM Canyon Drive	1947.60	0.2000	6	None Detected		0.0010	<5.00	<0.0010
Non-asbestos structures reported include a contribution from non-regulated amphiboles.									
0810-OFD-PMT-FB1 331715662-0009	Field Blank 1	0.00	0.1250	0	None Detected		N/A	<8.00	N/A
0810-OFD-PMT-FB2 331715662-0010	Field Blank 2	0.00	0.1250	0	None Detected		N/A	<8.00	N/A

Analyst(s)

Christopher Miranda (5)

Jeffrey Deboo (5)

Michael DeCavallas, Laboratory Manager
or other approved signatory

LA Testing is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above and may not be reproduced except in full, without written approval by LA Testing. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Sample received in acceptable condition unless otherwise noted. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing Huntington Beach, CA NVLAP Lab Code 101384-0

Initial Report From: 08/18/2017 16:03:38



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043
 Tel/Fax: (716) 651-0030 / (716) 651-0394
<http://www.EMSL.com / buffaloab@emsl.com>

EMSL Order: 141704267
 Customer ID: SMGS78B
 Customer PO:
 Project ID: Oroville EM OP

Attention: Dave Beadle, CIH
 Safety Management Systems
 1001 Brad Freeman Trail
 Trailer #2 / Safety Mgmt Systems
 Oroville, CA 95965
Project: 2017.08.10 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375
Fax:
Received Date: 8/12/2017 9:00 AM
Analysis Date: 08/14/2017
Collected Date: 08/10/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0810-OFD-TPT-01	WP278 AM N. Diversion Dam	1897.40	0.2110	0	Chrysotile	0	1	0.0010	4.70	0.00096
141704267-0001										
0810-OFD-TPT-02	WP251 AM Diversion Dam Yard	1892.10	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141704267-0002										
0810-OFD-TPT-03	WP279 AM SE Diversion Dam	1899.10	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141704267-0003										
0810-OFD-TPT-04	WP277 AM SW Diversion Dam	1901.80	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141704267-0004										
0810-OFD-TPT-05	WP019A AM E. Diversion Dam	1904.50	0.2110	0	Actinolite	1	0	0.0010	4.70	0.00096
141704267-0005										
0810-OFD-TPT-06	WP020A AM SE Canal	1891.10	0.2110	1	None Detected			0.0010	<4.70	<0.0010
141704267-0006										
Non-asbestos structures reported includes a contribution from non-regulated amphiboles.										
0810-OFD-TPT-07	WP021A AM SW Canal	1897.00	0.2110	0	Actinolite	0	1	0.0010	4.70	0.00096
141704267-0007										
0810-OFD-TPT-08	WP281 AM Cherokee Rd.	1904.00	0.2110	0	None Detected			0.0010	<4.70	<0.0010
141704267-0008										
0810-OFD-TPT-09	WP278 PM N. Diversion Dam	1959.30	0.1980	0	None Detected			0.0010	<5.10	<0.0010
141704267-0009										
0810-OFD-TPT-10	WP251 PM Diversion Dam Yard	1993.80	0.1980	0	None Detected			0.0010	<5.10	<0.0010
141704267-0010										
0810-OFD-TPT-11	WP279 PM SE Diversion Dam	1987.40	0.1980	0	Actinolite	0	3	0.0010	15.00	0.0029
141704267-0011										
0810-OFD-TPT-12	WP277 PM SW Diversion Dam	1977.40	0.1980	0	None Detected			0.0010	<5.10	<0.0010
141704267-0012										
0810-OFD-TPT-13	WP019A PM E Diversion Dam	1977.40	0.1980	0	None Detected			0.0010	<5.10	<0.0010
141704267-0013										
0810-OFD-TPT-14	WP020A PM SE Canal	1986.50	0.1980	0	Actinolite	0	1	0.0010	5.10	0.00098
141704267-0014										
0810-OFD-TPT-15	WP021A PM SW Canal	1977.40	0.1980	0	None Detected			0.0010	<5.10	<0.0010
141704267-0015										
0810-OFD-TPT-16	WP281 PM Cherokee Rd.	1982.00	0.1980	0	None Detected			0.0010	<5.10	<0.0010
141704267-0016										

Initial report from: 08/14/2017 17:02:55



EMSL Analytical, Inc.

490 Rowley Road Depew, NY 14043

Tel/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com> / buffalolab@emsl.com

EMSL Order: 141704267

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.10 Diversion Dam (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/12/2017 9:00 AM

Analysis Date: 08/14/2017

Collected Date: 08/10/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
0810-OFD-TPT-FB1 141704267-0017	Field Blank 1	0.00	0.1320	0	None Detected			N/A	<7.60	N/A
0810-OFD-TPT-FB2 141704267-0018	Field Blank 2	0.00	0.1320	0	None Detected			N/A	<7.60	N/A

Analyst(s)

Peter Donato (18)

Rhonda McGee

Rhonda McGee, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm³ and structures/mm² are dependent on the volume of Airsampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606, NVLAP Lab Code 200056-0

Initial report from: 08/14/2017 17:02:55



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@latesting.com

LA Testing Order: 331715660

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.10 Burma Rd (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/12/2017 9:00 AM

Analysis Date: 08/15/2017

Collected Date: 08/10/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5 ≥5μ		(S/mm ²)	(S/cc)
0810-OFD-BPT-01 331715660-0001	WP017A AM Burma Road	1896.50	0.2130	0	None Detected			0.0010	<4.70	<0.0010
0810-OFD-BPT-02 331715660-0002	WP017A PM Burma Road	2006.10	0.2000	2	None Detected			0.0010	<5.00	<0.0010
0810-OFD-BPT-FB1 331715660-0003	Field Blank 1	0.00	0.1250	0	None Detected			N/A	<8.00	N/A
0810-OFD-BPT-FB2 331715660-0004	Field Blank 2	0.00	0.1250	0	None Detected			N/A	<8.00	N/A

Analyst(s)

Jeffrey Deboo (4)

Michael DeCavallas, Laboratory Manager
or other approved signatory

LA Testing is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above and may not be reproduced except in full, without written approval by LA Testing. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Sample received in acceptable condition unless otherwise noted. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing Huntington Beach, CA NVLAP Lab Code 101384-0

Initial Report From: 08/15/2017 11:31:06



LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com> / gardengrovelab@lateesting.com

LA Testing Order: 331715661

Customer ID: SMGS78B

Customer PO:

Project ID: Oroville EM OP

Attention: Dave Beadle, CIH

Safety Management Systems

1001 Brad Freeman Trail

Trailer #2 / Safety Mgmt Systems

Oroville, CA 95965

Project: 2017.08.10 Launch Ramp (Oroville EM OP)

Phone: (661) 699-9375

Fax:

Received Date: 8/12/2017 9:00 AM

Analysis Date: 08/17/2017 - 08/18/2017

Collected Date: 08/10/2017

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by CARB-Modified AHERA

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Types	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
0810-OFD-LRP-01	WP009A AM Launch Ramp Parking	1928.70	0.2000	11	Actinolite	1	1	0.0010	10.00	0.0020
331715661-0001										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0810-OFD-LRP-02	WP010A AM Launch Ramp Turnaround	1921.60	0.2130	12	Actinolite	0	1	0.0009	4.70	0.00094
331715661-0002										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0810-OFD-LRP-03	WP009A PM Launch Ramp Parking	1972.00	0.2000	6	None Detected			0.0010	<5.00	<0.0010
331715661-0003										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0810-OFD-LRP-04	WP010A PM Launch Ramp Turnaround	1972.00	0.2000	10	Actinolite	1	0	0.0010	5.00	0.00098
					Chrysotile	2	0		10.00	0.0020
331715661-0004										
Non-asbestos structures reported include a contribution from non-regulated amphiboles.										
0810-OFD-LRP-FB1	Field blank 1	0.00	0.1250	1	None Detected			N/A	<8.00	N/A
331715661-0005										
0810-OFD-LRP-FB2	Field blank 2	0.00	0.1250	0	None Detected			N/A	<8.00	N/A
331715661-0006										
Total for all types.....										
									15.00	0.0030

Analyst(s)

Christopher Miranda (6)

Michael DeCavallas, Laboratory Manager
or other approved signatory

LA Testing is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above and may not be reproduced except in full, without written approval by LA Testing. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. LA Testing bears no responsibility for sample collection activities or analytical method limitations. Sample received in acceptable condition unless otherwise noted. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by LA Testing Huntington Beach, CA NVLAP Lab Code 101384-0

Initial Report From: 08/18/2017 16:02:06