

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 Copley Dr., Diamond Bar, CA 91765-4182**

**MONITORING AND ANALYSIS  
REPORT OF BULK ASBESTOS ANALYSIS**

Page 1 of 14

**TO:** Devorlyn Celestine  
Senior Enforcement Manager  
Compliance & Enforcement

**LABORATORY NO:** 2331401

**DATE RECEIVED:** 11/9/23

**SAMPLE SOURCE:**

**REFERENCE NO:** ASB-112-55

Marine Corp Air Station North Hanger [SIC] 1  
Bldg. 28, Armstrong St./Victory Blvd., Tustin

**REQUESTED BY:** M. Haynes

**SOURCE I.D.#:** 95762

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See attached report.

Approved by: \_\_\_\_\_  
Angela Haar, Ph.D.  
Principal A. Q. Chemist

Approved by: \_\_\_\_\_  
Stephen Dutz  
Senior Manager  
Laboratory



**MONITORING AND ANALYSIS  
REPORT OF BULK ASBESTOS ANALYSIS**

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**TO:** Devorlyn Celestine  
Senior Enforcement Manager  
Compliance & Enforcement

**LABORATORY NO:** 2331401-01

**DATE RECEIVED:** 11-9-2023

**SAMPLE DESCRIPTION:**

Sample 1: Bulk sample of black roofing debris taken from grass area East of the North Hanger [SIC]

**REFERENCE NO:** ASB-112-60

**REQUESTED BY:** M. Haynes

**SOURCE I.D.#:** 95762

**SAMPLE SOURCE:**

Marine Corp Air Station North Hanger [SIC] 1  
Bldg. 28, Armstrong St./Victory Blvd., Tustin

Percent Asbestos by Polarized Light Microscopy in accordance with the following Test Methods: EPA/600/R-93/116, *Method for the Determination of Asbestos in Bulk Materials* (Section 2.1, 2.2 and 2.3), July 1993 and EPA 600/M4-82-020: *Interim Method for the Determination of Asbestos in Bulk Insulation Samples*.

**Total Asbestos Present: 37%**

Catherine Buhl, Approved Signatory

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<b>LABORATORY NO: 2331401-01</b>			
<b>Sample Description:</b> Sample consists of black, tar material with interspersed fibers.			
<b>Layer</b>	1		
<b>Layer Description:</b>	Black, tar material with interspersed fibers		
<b>Percent of Sample</b>	100		
<b>Fibrous Non-Asbestos Materials Present</b>	None Detected		
<b>Non-Fibrous Materials Present</b>	26% Tar 37% Crystalline & other materials		
<b>Asbestos Type and Percent Found</b>	37% Chrysotile		
<b>Total Percent Asbestos Found</b>	37		
<b>Comments</b>	Gravimetric analysis, calibrated visual estimate		

**Sample Summary**

Layer	% of Total Sample	% Asbestos in Layer
1	100	37

**Total Asbestos in Sample: 37%**

Analyst: \_\_\_\_\_  
Cynthia Berg, Senior A. Q. Chemist



**MONITORING AND ANALYSIS  
REPORT OF BULK ASBESTOS ANALYSIS**

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**TO:** Devorlyn Celestine  
Senior Enforcement Manager  
Compliance & Enforcement

**LABORATORY NO:** 2331401-02

**DATE RECEIVED:** 11-9-2023

**SAMPLE DESCRIPTION:**

Sample 2: Bulk sample of gray roofing debris taken from grass area East of the North Hanger [SIC]

**REFERENCE NO:** ASB-112-55

**REQUESTED BY:** M. Haynes

**SOURCE I.D.#:** 95762

**SAMPLE SOURCE:**

Marine Corp Air Station North Hanger [SIC] 1  
Bldg. 28, Armstrong St./Victory Blvd., Tustin

Percent Asbestos by Polarized Light Microscopy in accordance with the following Test Methods: EPA/600/R-93/116, *Method for the Determination of Asbestos in Bulk Materials* (Section 2.1, 2.2 and 2.3), July 1993 and EPA 600/M4-82-020: *Interim Method for the Determination of Asbestos in Bulk Insulation Samples*.

**Total Asbestos Present: 28%**

Catherine Buhl, Approved Signatory

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<b>LABORATORY NO: 2331401-02</b>			
<b>Sample Description:</b> Sample consists of gray, fibrous material.			
<b>Layer</b>	1		
<b>Layer Description:</b>	Gray, fibrous material		
<b>Percent of Sample</b>	100		
<b>Fibrous Non-Asbestos Materials Present</b>	None Detected		
<b>Non-Fibrous Materials Present</b>	1% Organic 5% Acid/water soluble 66% Crystalline & other materials		
<b>Asbestos Type and Percent Found</b>	28% Chrysotile		
<b>Total Percent Asbestos Found</b>	28		
<b>Comments</b>	Gravimetric analysis, calibrated visual estimate		

**Sample Summary**

Layer	% of Total Sample	% Asbestos in Layer
1	100	28

**Total Asbestos in Sample: 28%**

Analyst: \_\_\_\_\_  
Cynthia Berg, Senior A. Q. Chemist



**MONITORING AND ANALYSIS  
REPORT OF BULK ASBESTOS ANALYSIS**

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**TO:** Devorlyn Celestine  
Senior Enforcement Manager  
Compliance & Enforcement

**LABORATORY NO:** 2331401-03

**DATE RECEIVED:** 11-9-2023

**SAMPLE DESCRIPTION:**

Sample 3: Bulk sample of black  
roofing/mastic debris taken from grass area  
East of the North

**REFERENCE NO:** ASB-112-56

**REQUESTED BY:** M. Haynes

**SOURCE I.D.#:** 95762

**SAMPLE SOURCE:**

Marine Corp Air Station North Hanger [SIC] 1  
Bldg. 28, Armstrong St./Victory Blvd., Tustin

Percent Asbestos by Polarized Light Microscopy in accordance with the following Test Methods: EPA/600/R-93/116, *Method for the Determination of Asbestos in Bulk Materials* (Section 2.1, 2.2 and 2.3), July 1993 and EPA 600/M4-82-020: *Interim Method for the Determination of Asbestos in Bulk Insulation Samples*.

**Total Asbestos Present: 26%**

Catherine Buhl, Approved Signatory

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REPORT OF BULK ASBESTOS ANALYSIS**

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<b>LABORATORY NO: 2331401-03</b>			
<b>Sample Description:</b> Sample consists of black, fibrous material.			
<b>Layer</b>	1		
<b>Layer Description:</b>	Black, fibrous material		
<b>Percent of Sample</b>	100		
<b>Fibrous Non-Asbestos Materials Present</b>	None Detected		
<b>Non-Fibrous Materials Present</b>	10% Organic 3% Acid/water soluble 61% Crystalline & other materials		
<b>Asbestos Type and Percent Found</b>	26% Chrysotile		
<b>Total Percent Asbestos Found</b>	26		
<b>Comments</b>	Gravimetric analysis, calibrated visual estimate		

**Sample Summary**

Layer	% of Total Sample	% Asbestos in Layer
1	100	26

**Total Asbestos in Sample: 26%**

Analyst: \_\_\_\_\_  
Cynthia Berg, Senior A. Q. Chemist



**MONITORING AND ANALYSIS  
REPORT OF BULK ASBESTOS ANALYSIS**

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**TO:** Devorlyn Celestine  
Senior Enforcement Manager  
Compliance & Enforcement

**LABORATORY NO:** 2331401-04

**DATE RECEIVED:** 11-9-2023

**SAMPLE DESCRIPTION:**

Sample 4: Bulk sample of gray burnt insulation debris taken from grass area East of the North Hanger [SIC]

**REFERENCE NO:** ASB-112-57

**REQUESTED BY:** M. Haynes

**SOURCE I.D.#:** 95762

**SAMPLE SOURCE:**

Marine Corp Air Station North Hanger [SIC] 1  
Bldg. 28, Armstrong St./Victory Blvd., Tustin

Percent Asbestos by Polarized Light Microscopy in accordance with the following Test Methods: EPA/600/R-93/116, *Method for the Determination of Asbestos in Bulk Materials* (Section 2.1, 2.2 and 2.3), July 1993 and EPA 600/M4-82-020: *Interim Method for the Determination of Asbestos in Bulk Insulation Samples*.

**Total Asbestos Present:   None Detected**

Catherine Buhl, Approved Signatory

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REPORT OF BULK ASBESTOS ANALYSIS**

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<b>LABORATORY NO: 2331401-04</b>			
<b>Sample Description:</b> Sample consists of white fibrous material with patches of black soot.			
<b>Layer</b>	1		
<b>Layer Description:</b>	White, fibrous material with patches of black soot		
<b>Percent of Sample</b>	100		
<b>Fibrous Non-Asbestos Materials Present</b>	78% Glass		
<b>Non-Fibrous Materials Present</b>	10% Organic 3% Acid/water soluble 9% Crystalline & other materials		
<b>Asbestos Type and Percent Found</b>	None Detected		
<b>Total Percent Asbestos Found</b>	None Detected		
<b>Comments</b>	Gravimetric analysis		

**Sample Summary**

Layer	% of Total Sample	% Asbestos in Layer
1	100	None Detected

**Total Asbestos in Sample: None Detected**

Analyst: \_\_\_\_\_  
Cynthia Berg, Senior A. Q. Chemist



**MONITORING AND ANALYSIS  
REPORT OF BULK ASBESTOS ANALYSIS**

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**TO:** Devorlyn Celestine  
Senior Enforcement Manager  
Compliance & Enforcement

**LABORATORY NO:** 2331401-05

**DATE RECEIVED:** 11-9-2023

**SAMPLE DESCRIPTION:**

Sample 5: Bulk sample of gray  
roofing/mastic debris taken from grass area  
East of the North Hanger [SIC]

**REFERENCE NO:** ASB-112-58

**REQUESTED BY:** M. Haynes

**SOURCE I.D.#:** 95762

**SAMPLE SOURCE:**

Marine Corp Air Station North Hanger [SIC] 1  
Bldg. 28, Armstrong St./Victory Blvd., Tustin

Percent Asbestos by Polarized Light Microscopy in accordance with the following Test Methods: EPA/600/R-93/116, *Method for the Determination of Asbestos in Bulk Materials* (Section 2.1, 2.2 and 2.3), July 1993 and EPA 600/M4-82-020: *Interim Method for the Determination of Asbestos in Bulk Insulation Samples*.

**Total Asbestos Present: 20% (Possibly fire damaged chrysotile fibers)**

Catherine Buhl, Approved Signatory

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**MONITORING AND ANALYSIS  
REPORT OF BULK ASBESTOS ANALYSIS**

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<b>LABORATORY NO: 2331401-05</b>			
<b>Sample Description:</b> Sample consists of grey, fibrous material with burnt spots.			
<b>Layer</b>	1		
<b>Layer Description:</b>	Grey, fibrous material with burnt spots		
<b>Percent of Sample</b>	100		
<b>Fibrous Non-Asbestos Materials Present</b>	None Detected		
<b>Non-Fibrous Materials Present</b>	4% Organic 14% Acid/water soluble 61% Crystalline & other materials		
<b>Asbestos Type and Percent Found</b>	20% possibly heat damaged Chrysotile		
<b>Total Percent Asbestos Found</b>	20% possibly heat damaged Chrysotile		
<b>Comments</b>	Gravimetric analysis, calibrated visual estimate, fire damaged		

**Sample Summary**

Layer	% of Total Sample	% Asbestos in Layer
1	100	20

**Total Asbestos in Sample: 20%**

Analyst: \_\_\_\_\_  
Cynthia Berg, Senior A. Q. Chemist



**MONITORING AND ANALYSIS  
REPORT OF BULK ASBESTOS ANALYSIS**

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**TO:** Devorlyn Celestine  
Senior Enforcement Manager  
Compliance & Enforcement

**LABORATORY NO:** 2331401-06

**DATE RECEIVED:** 11-9-2023

**SAMPLE DESCRIPTION:**

Sample 6: Bulk sample of gray roofing debris taken from grass area East of the North Hanger [SIC]

**REFERENCE NO:** ASB-112-59

**REQUESTED BY:** M. Haynes

**SOURCE I.D.#:** 95762

**SAMPLE SOURCE:**

Marine Corp Air Station North Hanger [SIC] 1  
Bldg. 28, Armstrong St./Victory Blvd., Tustin

Percent Asbestos by Polarized Light Microscopy in accordance with the following Test Methods: EPA/600/R-93/116, *Method for the Determination of Asbestos in Bulk Materials* (Section 2.1, 2.2 and 2.3), July 1993 and EPA 600/M4-82-020: *Interim Method for the Determination of Asbestos in Bulk Insulation Samples*.

**Total Asbestos Present: 16%**

Catherine Buhl, Approved Signatory

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**MONITORING AND ANALYSIS  
REPORT OF BULK ASBESTOS ANALYSIS**

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<b>LABORATORY NO: 2331401-06</b>			
<b>Sample Description:</b> Sample consists of black, fibrous material.			
<b>Layer</b>	1		
<b>Layer Description:</b>	Black, fibrous material		
<b>Percent of Sample</b>	100		
<b>Fibrous Non-Asbestos Materials Present</b>	None Detected		
<b>Non-Fibrous Materials Present</b>	4% Organic 44% Acid/water soluble 37% Crystalline & other materials		
<b>Asbestos Type and Percent Found</b>	16% Chrysotile		
<b>Total Percent Asbestos Found</b>	16		
<b>Comments</b>	Gravimetric analysis, calibrated visual estimate		

**Sample Summary**

Layer	% of Total Sample	% Asbestos in Layer
1	100	16

**Total Asbestos in Sample: 16%**

Analyst: \_\_\_\_\_  
Cynthia Berg, Senior A. Q. Chemist



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  INVOICE SOURCE

DISTRICT INFC

SAMPLE ANALYSIS REQUEST

LABORATORY NO. \_\_\_\_\_

TO: SCAQMD LAB.  OTHER

SOURCE Name: MARINE CORP AIR STATION NORTH HANGER 1, BLDG 28

I.D. No 95762

Source Address: ARMSTRONG ST./VICTORY BLVD., GPS DIRECTION: 33.703087423633534, -117.82387132304741

City: TUSTIN, CA. 92780

SECTOR: OK

Mailing Address: 300 CENTENNIAL WAY, City: TUSTIN ZIP: 92780

Contact Person: KEN TIGUEE/CHRISTOPHER KOSTER

Title: ECONOMIC ANALYST/(DIRECTOR-ECONOMIC DEV

TEL. 714-573-3316

Analysis Requested: MICHAL HAYNES

Date: 11/08/23

Approved by: MICHAL HAYNES

Garrett Kakishita

Office: Air Toxics

Budget No. 70005

REASON REQUESTED: Court/Hearing Board  Permit Pending  Hazardous/Toxic Spill

Suspected Violation  Rule(s) 1403

Other  40CFR61

Sample Collected by: MICHAL HAYNES Date: 11/08/23 Time 1310-1355 HRS

Specify the description and location where the sample was collected:

Sample # 1. BULK SAMPLE OF BLACK ROOFING DEBRIS TAKEN FROM GRASS AREA EAST OF THE NORTH HANGER

Sample # 2: BULK SAMPLE OF GRAY ROOFING DEBRIS TAKEN FROM GRASS AREA EAST OF THE NORTH HANGER

Sample # 3: BULK SAMPLE OF BLACK ROOFING/MASTIC DEBRIS TAKEN FROM GRASS AREA EAST OF THE NORTH

Sample # 4: BULK SAMPLE OF GRAY BURNT INSULATION DEBRIS TAKEN FROM GRASS AREA EAST OF THE NORTH HANGER

Sample # 5: BULK SAMPLE OF GRAY ROOFING/MASTIC DEBRIS TAKEN FROM GRASS AREA EAST OF THE NORTH HANGER

Sample # 6: BULK SAMPLE OF GRAY ROOFING DEBRIS TAKEN FROM GRASS AREA EAST OF THE NORTH HANGER

QUANTIFY/ QUALIFY MATERIALS; AND CHECK FOR PERCENT ASBESTOS

Relinquished by ° Received by ° Firm/Agency ° Date ° Time

RELINQUISHED BY	RECEIVED BY	FIRM/AGENCY	DATE	TIME
<i>[Signature]</i>	<i>Ubela</i>	MAD-Lab	11/9/23	15:45

DEVORLYN CELESTINE, MGN.

Remarks: pls. phone verbal ASAP. Expedite LAB-FORM

\* Samples received with sample label sealing the jars, not the evidence tape. CRB 11/9/23