TO: Devorlyn Celestine  
Senior Enforcement Manager  
Compliance & Enforcement

LABORATORY NO: 2331401

DATE RECEIVED: 11/9/23

REFERENCE NO: ASB-112-55

REQUESTED BY: M. Haynes

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

SOURCE I.D.#: 95762

See attached report.

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

Approved by:
Stephen Dutz  
Senior Manager  
Laboratory

Digitally signed by Angela Haar  
Date: 2023.11.10 16:21:57 -08'00'

Digitally signed by Stephen Dutz  
Date: 2023.11.10 16:29:22 -08'00'
TO: Devorlyn Celestine  
Senior Enforcement Manager  
Compliance & Enforcement  

LABORATORY NO: 2331401-01  

DATE RECEIVED: 11-9-2023  

REFERENCE NO: ASB-112-60  

REQUESTED BY: M. Haynes  

SOURCE I.D.#: 95762  

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

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%  

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Sample Description: Sample consists of black, tar material with interspersed fibers.

<table>
<thead>
<tr>
<th>Layer</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layer Description:</td>
<td>Black, tar material with interspersed fibers</td>
</tr>
<tr>
<td>Percent of Sample</td>
<td>100</td>
</tr>
<tr>
<td>Fibrous Non-Asbestos Materials Present</td>
<td>None Detected</td>
</tr>
<tr>
<td>Non-Fibrous Materials Present</td>
<td>26% Tar</td>
</tr>
<tr>
<td></td>
<td>37% Crystalline &amp; other materials</td>
</tr>
<tr>
<td>Asbestos Type and Percent Found</td>
<td>37% Chrysotile</td>
</tr>
<tr>
<td>Total Percent Asbestos Found</td>
<td>37</td>
</tr>
<tr>
<td>Comments</td>
<td>Gravimetric analysis, calibrated visual estimate</td>
</tr>
</tbody>
</table>

Sample Summary

<table>
<thead>
<tr>
<th>Layer</th>
<th>% of Total Sample</th>
<th>% Asbestos in Layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100</td>
<td>37</td>
</tr>
</tbody>
</table>

Total Asbestos in Sample: 37%
Sample 2: Bulk sample of gray roofing debris taken from grass area East of the North Hanger [SIC]

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%

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LABORATORY NO: 2331401-02  
Sample Description: Sample consists of gray, fibrous material.

<table>
<thead>
<tr>
<th>Layer</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layer Description:</td>
<td>Gray, fibrous material</td>
</tr>
<tr>
<td>Percent of Sample</td>
<td>100</td>
</tr>
<tr>
<td>Fibrous Non-Asbestos Materials Present</td>
<td>None Detected</td>
</tr>
</tbody>
</table>
| Non-Fibrous Materials Present | 1% Organic  
5% Acid/water soluble  
66% Crystalline & other materials |
| Asbestos Type and Percent Found | 28% Chrysotile |
| Total Percent Asbestos Found | 28 |
| Comments | Gravimetric analysis, calibrated visual estimate |

Sample Summary

<table>
<thead>
<tr>
<th>Layer</th>
<th>% of Total Sample</th>
<th>% Asbestos in Layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100</td>
<td>28</td>
</tr>
</tbody>
</table>

Total Asbestos in Sample: 28%

Cynthia Berg, Senior A. Q. Chemist
MONITORING AND ANALYSIS
REPORT OF BULK ASBESTOS ANALYSIS
Page 6 of 14

TO: Devorlyn Celestine
Senior Enforcement Manager
Compliance & Enforcement

LABORATORY NO: 2331401-03

DATE RECEIVED: 11-9-2023

REFERENCE NO: ASB-112-56

REQUESTED BY: M. Haynes

SOURCE I.D.#: 95762

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

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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Catherine Buhl, Approved Signatory

Digitally signed by
Catherine Buhl
Date: 2023.11.10 15:23:26 -08'00'

Catherine Buhl, Approved Signatory
LABORATORY NO: 2331401-03  
Sample Description: Sample consists of black, fibrous material.

<table>
<thead>
<tr>
<th>Layer</th>
<th>Layer Description</th>
<th>Percent of Sample</th>
<th>Fibrous Non-Asbestos Materials Present</th>
<th>Non-Fibrous Materials Present</th>
<th>Asbestos Type and Percent Found</th>
<th>Total Percent Asbestos Found</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Black, fibrous material</td>
<td>100</td>
<td>None Detected</td>
<td>10% Organic</td>
<td>26% Chrysotile</td>
<td>26</td>
<td>Gravimetric analysis, calibrated visual estimate</td>
</tr>
</tbody>
</table>

Sample Summary

<table>
<thead>
<tr>
<th>Layer</th>
<th>% of Total Sample</th>
<th>% Asbestos in Layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100</td>
<td>26</td>
</tr>
</tbody>
</table>

Total Asbestos in Sample: 26%

Analyst: Cynthia Berg

Cynthia Berg, Senior A. Q. Chemist
TO: Devorlyn Celestine  
Senior Enforcement Manager  
Compliance & Enforcement  

LABORATORY NO: 2331401-04  

DATE RECEIVED: 11-9-2023  

REFERENCE NO: ASB-112-57  

REQUESTED BY: M. Haynes  

SOURCE I.D.#: 95762  

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

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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LABORATORY NO: 2331401-04
Sample Description: Sample consists of white fibrous material with patches of black soot.

<table>
<thead>
<tr>
<th>Layer</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layer Description:</td>
<td>White, fibrous material with patches of black soot</td>
</tr>
<tr>
<td>Percent of Sample</td>
<td>100</td>
</tr>
<tr>
<td>Fibrous Non-Asbestos Materials Present</td>
<td>78% Glass</td>
</tr>
<tr>
<td>Non-Fibrous Materials Present</td>
<td>10% Organic</td>
</tr>
<tr>
<td></td>
<td>3% Acid/water soluble</td>
</tr>
<tr>
<td></td>
<td>9% Crystalline &amp; other materials</td>
</tr>
<tr>
<td>Asbestos Type and Percent Found</td>
<td>None Detected</td>
</tr>
<tr>
<td>Total Percent Asbestos Found</td>
<td>None Detected</td>
</tr>
<tr>
<td>Comments</td>
<td>Gravimetric analysis</td>
</tr>
</tbody>
</table>

Sample Summary

<table>
<thead>
<tr>
<th>Layer</th>
<th>% of Total Sample</th>
<th>% Asbestos in Layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100</td>
<td>None Detected</td>
</tr>
</tbody>
</table>

Total Asbestos in Sample: None Detected

Analyst: Cynthia Berg

Digitally signed by Cynthia Berg
Date: 2023.11.10 15:20:21 -08'00'
Cynthia Berg, Senior A. Q. Chemist
TO: Devorlyn Celestine  
Senior Enforcement Manager  
Compliance & Enforcement  
LABORATORY NO: 2331401-05  
DATE RECEIVED: 11-9-2023  
REFERENCE NO: ASB-112-58  
REQUESTED BY: M. Haynes  
SOURCE I.D.#: 95762  

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

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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**LABORATORY NO:** 2331401-05  
**Sample Description:** Sample consists of grey, fibrous material with burnt spots.

<table>
<thead>
<tr>
<th>Layer</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layer Description:</td>
<td>Grey, fibrous material with burnt spots</td>
</tr>
<tr>
<td>Percent of Sample</td>
<td>100</td>
</tr>
<tr>
<td>Fibrous Non-Asbestos Materials Present</td>
<td>None Detected</td>
</tr>
<tr>
<td>Non-Fibrous Materials Present</td>
<td>4% Organic, 14% Acid/water soluble, 61% Crystalline &amp; other materials</td>
</tr>
</tbody>
</table>

**Asbestos Type and Percent Found**  
20% possibly heat damaged Chrysotile

**Total Percent Asbestos Found**  
20% possibly heat damaged Chrysotile

**Comments**  
Gravimetric analysis, calibrated visual estimate, fire damaged

---

**Sample Summary**

<table>
<thead>
<tr>
<th>Layer</th>
<th>% of Total Sample</th>
<th>% Asbestos in Layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100</td>
<td>20</td>
</tr>
</tbody>
</table>

**Total Asbestos in Sample:** 20%

---

**Analyst:** Cynthia Berg  
**Date:** 2023.11.10 19:20:34 -08'00'  
**Cynthia Berg, Senior A. Q. Chemist**
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%

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Catherine Buhl, Approved Signatory

Digital signature: 
Date: 2023.11.10 15:24:21 -08'00'

Catherine Buhl, Approved Signatory
LABORATORY NO: 2331401-06  
Sample Description: Sample consists of black, fibrous material.

<table>
<thead>
<tr>
<th>Layer</th>
<th>Layer Description:</th>
<th>Percent of Sample</th>
<th>Fibrous Non-Asbestos Materials Present</th>
<th>Non-Fibrous Materials Present</th>
<th>Asbestos Type and Percent Found</th>
<th>Total Percent Asbestos Found</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Black, fibrous material</td>
<td>100</td>
<td>None Detected</td>
<td>4% Organic</td>
<td>16% Chrysotile</td>
<td>16</td>
<td>Gravimetric analysis, calibrated visual estimate</td>
</tr>
</tbody>
</table>

Sample Summary

<table>
<thead>
<tr>
<th>Layer</th>
<th>% of Total Sample</th>
<th>% Asbestos in Layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100</td>
<td>16</td>
</tr>
</tbody>
</table>

Total Asbestos in Sample: 16%
SAMPLE ANALYSIS REQUEST

TO: SCAQMD LAB. [X] 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, -117.823871232304741
City: TUSTIN, CA. 92780 SECTOR: OK
Mailing Address: 300 CENTENNIAL WAY, City: TUSTIN ZIP: 92780
Contact Person: KEN TIGUE/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 [X] Rule(s) 1403 Other [X] 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

RELIQUINSHED BY

RECEIVED BY

FIRM/AGENCY

DATE

TIME

DEVROLYN CELESTINE, MGN.

* Samples received with sample label sealing tape, not the evidence tape. 09/14/23

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