

Air Environmental

P.O. Box 294
Santa Rosa, Ca 95402
707-408-2080

CaEnvironmental@Gmail.com

Soot Inspection Report

To: West Coast Fire & Water

From: Air Environmental

Date: 5-15-20

Address: 6593 Pentz Rd, Paradise, CA 95969

Date of testing: 5-14-20

Location(s) of testing: Rooms A3, B3, B5, C2, D1, E6, F3, G1, G2.

Air Environmental was requested to perform a soot inspection and to take soot tests in the area(s) stated above. (See attached report)

Based on the results of the inspection and at the above described location on the date indicated, our visual inspection performed, and tape lifts analyzed, Air Environmental considers that soot cleaning in the attic spaces does not need to be performed. There is dust build up on the horizontal surfaces and ducting in the attic space. Since no attic ventilation was found in these buildings there has been low to no ash or soot from the fires.

If you have any questions, please give us a call.

Joshua Leard & Nate Cowan

Owners/Environmental Technicians



May 14th, 2020

Attention: Josh Leard

Subject: 6593 Pentz Rd., Microscopic Analysis of Soot/Char Particles for Air Environmental,
ETL Job #231965

Dear Mr. Leard,

On May 14th, 2020, Environmental Testing Laboratories, Inc. (ETL) received 16 tape samples for the project location 6593 Pentz Rd., Paradise, CA 95969. The samples were received intact and sealed in separate resealable Ziploc-type plastic bags. Upon initial inspection in the laboratory, it was found that the tape samples had adhered to the inside of their respective bags. Tape samples were detached from the plastic material of the bags in order to be analyzed but this may cause distortion in representative particle distribution remaining on the tape lifts.

Under macroscopic inspection of mounted samples, particle distribution was observed as fairly even and the integrity of the tape lifts was maintained.

Soot/char particles were identified, analyzed, and quantified by polarized light microscopy (PLM) according to the recommendations and methods described in the ASTM D6602 and EPA 600/R-93/116 standard methodology.

Environmental Testing Laboratories

37575 W. Huron River Drive, Romulus, MI 48174

(734) 955-6600 <http://www.2etl.com>

Soot/char particles were observed in most of the submitted samples in varying quantities. Other constituent particles found on these samples included both cellulose and synthetic fibers, wood, fiberglass, and miscellaneous organic debris.

Analytical Method

Sample analysis is performed using a polarized light microscope under different magnifications (100-400x), using crossed and un-crossed polars, and reflected and transmitted light. Detection of combustion by-products is achieved through assessment of morphological characteristics and optical properties. Quantification by percentages is performed using visual area estimation of combustion by-products as compared to the total area sampled.

Under the standard analytical methods used, the Limit of Quantification (LOQ) is considered to be less than 1% particle area distribution. Any samples that are quantified as having less than 1% distribution of soot/char particles will be reported as “<1%” without additional quantification noted. A percent result of “ND” denotes None Detected and indicates that no soot/char particles were observed on the particular sample.

Low percentages of soot/char distribution on a given sample (around 3% or less) *may* indicate fairly normal conditions but interpretations of soot or combustion by-product distribution are left to the discretion of the client. Laboratory results apply only to samples submitted.

Thank you for trusting ETL with your business, it has been a pleasure partnering with you on this project. Please refer to the **Laboratory Report** section of this document for more information regarding the submitted samples. If you have any questions about any of the information contained within this report please do not hesitate to contact me at my office at (800) 864-3236 or by email at Kevin.Moss@2etl.com.

Sincerely,



Kevin R Moss

Laboratory Director

Environmental Testing Laboratories

37575 W. Huron River Drive, Romulus, MI 48174

(734) 955-6600 <http://www.2etl.com>

ETL Laboratory Report - Soot/Char Analysis

Client: Air Environmental
P.O. Box 294
Santa Rosa, CA 95402

ETC Project #: 231965
Sample Date: 5/13/2020
Submitted Date: 5/14/2020
Analysis Date: 5/14/2020
Analyzed by: Kevin Moss

Project Location: 6593 Pentz Rd
Paradise, CA 95969

| Lab Code | Sample Code | Sample Description | Soot/Char Present (%) |
|----------|-------------|--------------------------|-----------------------|
| 1 | S-1 | Room F3 Insulation Paper | <1% |
| 2 | S-2 | Room F3 Wood Beam | <1% |
| 3 | S-3 | Room E6 Wood Beam | 2% |
| 4 | S-4 | Room E6 Insulation Paper | <1% |
| 5 | S-5 | Room D1 Insulation Paper | <1% |
| 6 | S-6 | Room D1 Wood Beam | <1% |
| 7 | S-7 | Room C2 Wood Beam | <1% |
| 8 | S-8 | Room C2 Insulation Paper | ND |
| 9 | S-9 | Room B5 Wood Beam | <1% |
| 10 | S-10 | Room B5 Wood Siding | 5% |
| 11 | B-1 | Room B3 Wood Beam | <1% |
| 12 | B-2 | Room B3 Insulation Paper | <1% |
| 13 | B-3 | Room A3 Wood Beam | 3% |
| 14 | B-4 | Room A3 Insulation Paper | <1% |
| 15 | B-5 | Room G1 | <1% |
| 16 | B-6 | Room G2 | <1% |
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* This analysis was performed using a site-developed visual microscopic technique.

References:

ASTM D6602-13 (2018), Standard Practice for Sampling and Testing of Possible Carbon Black Fugitive Emissions or Other Environmental Particulate, or Both, ASTM International, West Conshohocken, PA, 2018, www.astm.org

Perkins, R. and B. Harvey. Test Method - Method for the Determination of Asbestos in Bulk Building Materials. U.S. Environmental Protection Agency, Washington, D.C., EPA/600/R-93/116.

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ASBESTOS CHAIN OF CUSTODY
Air Environmental

PO Box 294, Santa Rosa, Ca 95402
 707-408-2080 - CaEnvironmental@gmail.com
LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only
 Lab No. 231905
 Accept Reject

| Contact Information | | Project Information | |
|---------------------|-------------------|---------------------|-------------------------------------|
| Company: | Air Environmental | Phone: | 707-408-2080 |
| Contact: | Josh Leard | Cell Phone: | |
| Account #: | | E-mail: | CaEnvironmental@gmail.com |
| SAMPLED BY: | Name: JL | Date: | 5-13-20 |
| | | Project Name: | |
| | | Project Location: | 6593 Lentz Rd Paradise, Ca 95969 |

| | | | | | | | | | |
|------------------|-------------------|--------------|---------|------|-------|--------------|----------------------------|--------------|----------------------|
| RELINQUISHED BY: | <i>Josh Leard</i> | DATE & TIME: | 5-13-20 | VIA: | Foalx | RECEIVED BY: | Aubrie Noel Aubrie Noel | DATE & TIME: | 5-14-2020 12:37pm |
|------------------|-------------------|--------------|---------|------|-------|--------------|----------------------------|--------------|----------------------|

REQUESTED SERVICES (Please the Appropriate Boxes)

| | | | | | | | |
|----------------------------------|--------------------------|------------|--------------------------|------------------|-------------------------------------|--------------------|--------------------------|
| PLM | <input type="checkbox"/> | PCM | <input type="checkbox"/> | TEM | <input type="checkbox"/> | Soot | <input type="checkbox"/> |
| Bulk Analysis (EPA 600/R-93/116) | <input type="checkbox"/> | NIOSH 7400 | <input type="checkbox"/> | Air - NIOSH 7402 | <input checked="" type="checkbox"/> | Tape Lift Analysis | <input type="checkbox"/> |
| 400 Point Count | <input type="checkbox"/> | | | | | | |

[Handwritten Signature]

| No. | Sample ID | <input checked="" type="checkbox"/> To Be Analyzed | Lab ID | Description | Volume | <input checked="" type="checkbox"/> Stop @ 1st Pos | Comments / Notes |
|-----|-----------|--|--------|--------------------------|--------|--|------------------|
| 1 | S-1 | <input checked="" type="checkbox"/> | | Room F3 Insulation Paper | | <input type="checkbox"/> | |
| 2 | S-2 | <input checked="" type="checkbox"/> | | " " Wood Beam | | <input type="checkbox"/> | |
| 3 | S-3 | <input checked="" type="checkbox"/> | | Room E6 " " | | <input type="checkbox"/> | |
| 4 | S-4 | <input checked="" type="checkbox"/> | | " " Insulation Paper | | <input type="checkbox"/> | |
| 5 | S-5 | <input checked="" type="checkbox"/> | | Room DJ " " | | <input type="checkbox"/> | |
| 6 | S-6 | <input checked="" type="checkbox"/> | | " " Wood Beam | | <input type="checkbox"/> | |
| 7 | S-7 | <input checked="" type="checkbox"/> | | Room C2 " " | | <input type="checkbox"/> | |
| 8 | S-8 | <input checked="" type="checkbox"/> | | " " Insulation paper | | <input type="checkbox"/> | |
| 9 | S-9 | <input checked="" type="checkbox"/> | | Room BS Wood Beam | | <input type="checkbox"/> | |
| 10 | S-10 | <input checked="" type="checkbox"/> | | " " Siding | | <input type="checkbox"/> | |

TURNAROUND TIME

Rush

Same Day

24 - Hour

3 - Day

5 - Day

Asbestos Chain Of Custody

Air Environmental
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 707-408-2080

Legal Document

| |
|---|
| For Lab Use Only |
| Lab No. <u>231905</u> |
| <input type="checkbox"/> Accept <input type="checkbox"/> Reject |

Project Information

Company: Air Environmental Project Name: Project Location: 6593 Pentz Rd

| No. | Sample ID | <input checked="" type="checkbox"/> To Be Analyzed | Lab ID | Description | Volume / Area | Stop @ 1st Pos <input type="checkbox"/> | Comments / Notes |
|-----|-----------|--|--------|------------------------------|---------------|---|------------------|
| 11 | B-11 | <input checked="" type="checkbox"/> | | Room B3 Wood Beam | | <input type="checkbox"/> | |
| 12 | B-12 | <input checked="" type="checkbox"/> | | " B-3 Insulation Paper | | <input type="checkbox"/> | |
| 13 | B-13 | <input checked="" type="checkbox"/> | | Room A-3 Wood Beam | | <input type="checkbox"/> | |
| 14 | B-14 | <input checked="" type="checkbox"/> | | " A-3 Insulation Paper | | <input type="checkbox"/> | |
| 15 | B-15 | <input checked="" type="checkbox"/> | | Room Gm1 | | <input type="checkbox"/> | |
| 16 | B-16 | <input checked="" type="checkbox"/> | | " G2 | | <input type="checkbox"/> | |
| 17 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| 18 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| 19 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| 20 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| 21 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| 22 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| 23 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| 24 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| 25 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| 26 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| 27 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| 28 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| 29 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |
| 30 | | <input type="checkbox"/> | | | | <input type="checkbox"/> | |