



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

**MONITORING AND ANALYSIS**  
**REPORT OF LABORATORY ANALYSIS**  
(Page 1 of 2)

**TO:** Jason Low, Ph.D.  
Atmospheric Measurements Manager  
Science & Technology Advancement

**LABORATORY NO.** 1616711-01 - 03

**SAMPLES DESCRIBED AS:**

**REFERENCE NO.:** XRF2-4-83, 84

Three 47mm Teflon (PTFE) filters

**SUBMITTED ON:** 06/16/2016

**REQUESTED BY:** Jason Low

**SAMPLE SOURCE:**

Maywood Fire – Emergency Response  
3570 Fruitland Ave.  
Maywood, CA 90270

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**ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**

The samples were collected using PTFE filters on low volume TSP samplers. The sampling durations and locations are as follows.

**Sample #1– 06/15/16 1405 – 06/16/16 0908, 35-ft West/Northwest of fire**

**Sample #2– 06/15/16 1602 – 06/16/16 1141, Vernon Fire Station**

**Sample #3– 06/15/16 1549 – 06/16/16 1518, Fishburn Elementary**


**Metals Analysis by EDXRF:**

The submitted PTFE filter samples were analyzed using the PANalytical PW 5000 Epsilon 5<sup>®</sup> Energy Dispersive XRF (ED-XRF) Spectrometer. Analysis for metals was performed in accordance with SCAQMD Method #00004, (*Standard Operating Procedure for the Analysis of PM2.5 Filter Samples by Energy Dispersive X-Ray Fluorescence Spectrometry*).

**Results:** See page 2 for results.

Date Approved: 6/17/16

Approved By: \_\_\_\_\_

  
Solomon Teffera, Acting Sr. Manager  
Laboratory Services

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<b>Metal</b>	<b>Conc. Unit</b>	<b>35 ft. WNW of Fire (Sample #1)</b>	<b>Vernon Fire Station #1 (Sample #2)</b>	<b>Fishburn Elementary (Sample #3)</b>	<b>Acute REL</b>
Aluminum	ng/m <sup>3</sup>	829	698	601	(a)
Antimony	ng/m <sup>3</sup>	ND	ND	ND	(a)
Arsenic	ng/m <sup>3</sup>	ND	ND	ND	200
Barium	ng/m <sup>3</sup>	ND	ND	ND	(a)
Bromine	ng/m <sup>3</sup>	94	25	ND	(a)
Cadmium	ng/m <sup>3</sup>	319	ND	ND	(a)
Calcium	ng/m <sup>3</sup>	787	670	747	(a)
Chlorine	ng/m <sup>3</sup>	5920	5230	4510	210,000
Chromium	ng/m <sup>3</sup>	ND	ND	ND	(a)
Cobalt	ng/m <sup>3</sup>	ND	ND	ND	(a)
Copper	ng/m <sup>3</sup>	86	21	26	100,000
Iron	ng/m <sup>3</sup>	762	738	690	(a)
Lead	ng/m <sup>3</sup>	60	ND	ND	(a)
Magnesium	ng/m <sup>3</sup>	1210	595	540	(a)
Manganese	ng/m <sup>3</sup>	ND	ND	ND	(a)
Molybdenum	ng/m <sup>3</sup>	ND	ND	ND	(a)
Nickel	ng/m <sup>3</sup>	ND	ND	ND	200
Phosphorus	ng/m <sup>3</sup>	37	32	38	(a)
Potassium	ng/m <sup>3</sup>	382	347	361	(a)
Selenium	ng/m <sup>3</sup>	ND	ND	ND	(a)
Sulfur	ng/m <sup>3</sup>	841	729	830	(a)
Tin	ng/m <sup>3</sup>	62	ND	ND	(a)
Titanium	ng/m <sup>3</sup>	72	58	62	(a)
Vanadium	ng/m <sup>3</sup>	ND	ND	ND	30,000
Zinc	ng/m <sup>3</sup>	147	43	62	(a)

(a) No acute REL available



# Maywood Fire

South Coast Air Quality Management District  
Special Monitoring Field Sample Log

Site Name: **Teflon #4675478**

Lab No: **1616711-01**

Description: 35 ft West/Northwest of fire

Date Sample Received: \_\_\_\_\_

Sample Begin Date: 06/15/2016 00:00 <sup>MW</sup> 14:05

Reference No: \_\_\_\_\_

Sample End Date: 06/16/16 09:08

Analyst: \_\_\_\_\_

Retrieval Date: -06/16/16

Filter Load Date: 6/15/16

1023 ml/n	S. Baldoher & B. Vongphachanh	5.0 LPM	5.71 M <sup>3</sup> volumetric
Sample Elapsed Time	Recorded By	Average Flow Rate	Air Volume

Comments:



Std Vol = 5.80 m<sup>3</sup>

### Chain of Custody:

<u>[Signature]</u>	<u>Kelly Van [Signature]</u>	<u>SC AQMD Lab</u>	<u>6/16/16 10:30</u>
Relinquished By	Received By	Section/Group	Date/Time

_____	_____	_____	_____
Relinquished By	Received By	Section/Group	Date/Time



# Maywood Fire

South Coast Air Quality Management District  
Special Monitoring Field Sample Log

Site Name: **Teflon #4675479**

Lab No: **1616711-02**

Description: Vernon Fire Station #1

Date Sample Received: \_\_\_\_\_

Sample Begin Date: 06/15/2016 ~~00:00~~ 16:02

Reference No: \_\_\_\_\_

Sample End Date: 6/15/16 11:41

Analyst: \_\_\_\_\_

Retrieval Date: 6/16/16 16:02

Filter Load Date: 6/15/16 16:00

<u>1059 min</u>	<u>S Boddeker</u>	<u>5.00</u>	<u>Actual</u> <u>5.99 m<sup>3</sup></u>
Sample Elapsed Time	Recorded By	Average Flow Rate	Air Volume



**Comments:**

6.09 standard m<sup>3</sup>

Battery failed @ 11:41 pdt

not pst

**Chain of Custody:**

<u>[Signature]</u>	<u>[Signature]</u>	<u>LAB</u>	<u>06/16/16 17:40</u>
Relinquished By	Received By	Section/Group	Date/Time

_____	_____	_____	_____
Relinquished By	Received By	Section/Group	Date/Time



# Maywood Fire

South Coast Air Quality Management District  
Special Monitoring Field Sample Log

Site Name: **Teflon #4675480**

Lab No: **1616711-03**

Description: Fishburn Elementary

Date Sample Received: \_\_\_\_\_

Sample Begin Date: 06/15/2016 00:00 15:49

Reference No: \_\_\_\_\_

Sample End Date: 6/16/16 15:18

Analyst: \_\_\_\_\_

Retrieval Date: 6/16/16 15:18

Filter Load Date: 6/15/16 15:45

1409  
Sample Elapsed Time

S. Boddeker  
Recorded By

5.00 v.lpm  
Average Flow Rate

(Actual)  
7.04 v.m.<sup>3</sup>  
Air Volume

Comments:



Standard volume  
7.12 m<sup>3</sup> pdt times  
not pst

**Chain of Custody:**

[Signature]  
Relinquished By

[Signature]  
Received By

LAB  
Section/Group

06/16/16 17:40  
Date/Time

Relinquished By

Received By

Section/Group

Date/Time