



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. 1616614-02 – 05

SAMPLES DESCRIBED AS:

REFERENCE NO.: XRF2-4-82

Four 47mm Teflon (PTFE) filter

SUBMITTED ON: 06/15/2016

REQUESTED BY: Jason Low

SAMPLE SOURCE:

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

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 #2 – 06/14/16 12:00 – 06/15/16 11:40, Maywood Christian School

Sample #3 – 06/14/16 14:10 – 06/15/16 14:10, Fishburn Elementary

Sample #4 – 06/14/16 13:14 – 06/15/16 13:14, Vernon Fire Station #1

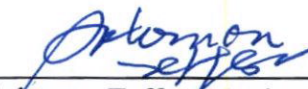
Sample #5 – 06/14/16 17:02 – 06/15/16 14:05, 35ft WNW of fire

Metals Analysis by EDXRF:

The submitted PTFE filter samples were analyzed using the PANalytical PW 5000 Epsilon 5* 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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Metal	Conc. Unit	Maywood Christian School (Sample #2)	Fishburn Elementary (Sample #3)	Vernon Fire Station #1 (Sample #4)	35 ft. WNW of fire (Sample #5)	Acute REL
Aluminum	ng/m3	491	584	505	6,330	(a)
Antimony	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	1,050	(a)
Arsenic	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	87	200
Barium	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	109	(a)
Bromine	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	16	11,500	(a)
Cadmium	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	3,430	(a)
Calcium	ng/m3	529	490	534	691	(a)
Chlorine	ng/m3	1,610	1,430	1,440	30,700	210,000
Chromium	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	(a)
Cobalt	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	(a)
Copper	ng/m3	25	11	18	6,820	100,000
Iron	ng/m3	568	590	608	770	(a)
Lead	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	1,910	(a)
Magnesium	ng/m3	433	347	405	3,600	(a)
Manganese	ng/m3	12	BELOW DETECTION LIMIT	24	35	(a)
Molybdenum	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	(a)
Nickel	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	7	200
Phosphorus	ng/m3	60	41	53	250	(a)
Potassium	ng/m3	272	235	274	1,110	(a)
Selenium	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	(a)
Sulfur	ng/m3	1,070	968	1,040	2,010	(a)
Tin	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	838	(a)
Titanium	ng/m3	73	54	51	67	(a)
Vanadium	ng/m3	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	BELOW DETECTION LIMIT	30,000
Zinc	ng/m3	23	23	32	5,430	(a)

(a) No acute REL available

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
SAMPLE ANALYSIS REQUEST**

DISTRICT INFORMATION
 INVOICE SOURCE
 LABORATORY NO. **1616614**



TO: SCAQMD LAB: OTHER:

SOURCE NAME: Maywood Fire I.D. No. _____

Source Address: 3570 Fruitland Ave City: Maywood ~~Maywood~~ 90270

Mailing Address: _____ City: _____ Zip: _____

Contact Person: _____ Title: _____ Tel: _____

Analysis Requested by: _____ Date: 6/14/2016

Approved by: Jason Low Office: _____ Budget #: _____

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

Suspected Violation Rule(s) Other

Sample Collected By: R Wimmer / S Baldeker Date: 06/14/2016 Time: 17:01 pdt

Sample Description: ([Sample Number] - Sample Name)

[1616614-01] - Sample #1 - # 4675473

Analyses Requested:

Metals ICP/MS

Volum

~~[1616614-02] - Sample #2 - # 4675474~~

1.79 v m³

Metals ICP/MS

1.77 std m³

~~[1616614-03] - Sample #3 - # 4675475~~

Flow 5.00 v lpm

Metals ICP/MS

~~[1616614-04] - Sample #4 - # 4675476~~

12. 6/14/16

Metals ICP/MS

15:11 pdt

~~[1616614-05] - Sample #5 - # 4675477~~

17:01 pdt

Metals ICP/MS

Relinquished by	Received by	Firm/Agency	Date	Time
Steph...				
S Baldeker	J. Sainado	SCAQMD Lab	6/14/16	19:00

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TO: SCAQMD LAB: OTHER:

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Source Address: 3570 Fruitland Ave City: Maywood 90270

Mailing Address: _____ City: _____ Zip: _____

Contact Person: _____ Title: _____ Tel: _____

Analysis Requested by: _____ Date: 6/14/2016

Approved by: Jason Low Office: _____ Budget #: _____

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

Suspected Violation Rule(s) Other

Sample Collected By: S Boddeker Date: 06/14/2016 Time: 3 to 4 pm pdt

Sample Description: ([Sample Number] - Sample Name)

~~[1616614-01] - Sample #1 - #4675473~~ Submitted 6/14/16 @ 19:00 pdt

Analyses Requested:

Metals ICP/MS
[1616614-02] - Sample #2 - #4675474 1420 min 7.10 m³ 7.16 sm³ 5.00 v lpm
12:00 to 11:40 6/14 6/15 Maywood Christian

Metals ICP/MS
[1616614-03] - Sample #3 - #4675475 vm³
Fishburn Elementary 7.20 7.28 sm³ 1440 min
14:10 to 14:10 6/14 6/15

Metals ICP/MS
[1616614-04] - Sample #4 - #4675476 1440 min
13:14 to 13:14 6/14 6/15

<u>7.20</u>	<u>Vol m³</u>
<u>7.29</u>	<u>std m³</u>

Metals ICP/MS
[1616614-05] - Sample #5 - #4675477
Pacific Machine Moving 35ft WNW of fire 1440 min
6/14 to 6/15 17:02 14:05

<u>5.00</u>	<u>v lpm</u>
<u>6.31</u>	<u>Vol m³</u>
<u>6.36</u>	<u>Std m³</u>

unsampled filters

Relinquished by	Received by	Firm/Agency	Date	Time
<u>Steve Dutz</u>	<u>M Koch / S Boddeker</u>	<u>Spec Monitoring</u>	<u>6/14/16</u>	<u>0800</u>
<u>S Boddeker</u>	<u>Kelly Dutz</u>	<u>UAB</u>	<u>6/15/16</u>	<u>6 PM</u>