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

MONITORING & ANALYSIS REPORT OF LABORATORY ANALYSIS

| D: Jason Low, Ph.D. Atmospheric Measurements Manager | | LABORATORY NO: | 1616627 | |
|---|---|---|---|--|
| * | | REFERENCE NO: | GC6-121-100 | |
| PLE DESCRIPTION | V : | DATE SAMPLED: | 06/14/16 | |
| Grab samples | | | | |
| Canister #s 54766 | E0301 | DATE RECEIVED: | 06/16/16 | |
| 54322 | E5734 | | | |
| | | DATE ANALYZED: | 06/16/16 | |
| PLE LOCATION: | | | | |
| Maywood Fire | | ANALYZED BY: | Yang Song | |
| | | REQUESTED BY: | Sumner Wilson | |
| | Atmospheric Measu Science and Techno PLE DESCRIPTION Grab samples Canister #s 54766 54322 PLE LOCATION: | Atmospheric Measurements Manager Science and Technology Advancement PLE DESCRIPTION: Grab samples Canister #s 54766 E0301 54322 E5734 PLE LOCATION: | Atmospheric Measurements Manager Science and Technology Advancement PLE DESCRIPTION: Grab samples Canister #s 54766 E0301 54322 E5734 DATE RECEIVED: DATE ANALYZED: PLE LOCATION: Maywood Fire ANALYZED BY: | |

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Volatile Organic Compounds (VOC) by Gas Chromatography(GC) and Flame Ionization Detection (FID)

Notes:

1. Sample canister E5734 was invalid due to a lose cap and valve that was cracked open.

2. See attached for speciated results.

Date Approved: $\frac{2/33/16}{}$ Approved By:

Solomon Teffera, Acting Sr. Manager

Laboratory Services Branch

(909) 396-2199

<u>LAB NO: 1616627</u> <u>Location: Maywood Fire</u>

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Quantitation of Organic Compounds by Gas Chromatography(GC) and Flame Ionization Detection (FID)

| Sample Date Canister Sampling Location | 06/14/16 54766 Fruitland Ave. | 06/14/16 E0301 52nd Street | Ambient Air |
|--|--|---|--------------|
| Sampling Time | 8:45 AM | 10:25 AM | |
| Total NMOC, ppbC | 10400 | 120 | 100-700 ppbC |
| Compound | Conc. (ppbv) | Conc. (ppbv) | Conc. (ppbv) |
| ethane | 180 | 4.7 | |
| ethylene | 580 | 1.4 | 0.7-4.1 |
| acetylene | 130 | 1.0 | |
| propane | 47 | 3.2 | 0.4-5.0 |
| propylene | 200 | 0.3 | 0.2-0.7 |
| isobutane | 2.5 | 0.6 | 0.2-0.9 |
| n-butane | 13 | 0.8 | 0.3-1.7 |
| 1-butene | 31 | < 0.1 | 0.1-0.3 |
| trans-2-butene | 11 | < 0.1 | |
| cis-2-butene | 7.5 | < 0.1 | |
| isopentane | 11 | 2.7 | |
| 1-pentene | 8.9 | < 0.1 | |
| n-pentane | 14 | 0.5 | 0.1-0.6 |
| isoprene | 14 | < 0.1 | |
| trans-2-pentene | 3.6 | < 0.1 | |
| cis-2-pentene | 1.9 | < 0.1 | |
| 2,2-dimethylbutane | 1.6 | < 0.1 | |
| cyclopentane | 0.8 | < 0.1 | |
| 2,3-dimethylbutane | < 0.1 | 0.1 | |
| 2-methylpentane | 1.2 | 0.3 | |
| 3-methylpentane | 0.4 | 0.2 | |
| 1-hexene | 8.4 | < 0.1 | < 0.1-0.1 |
| n-hexane | 4.6 | 0.7 | 0.1-0.2 |
| methylcyclopentane | 1.3 | 0.2 | |
| 2,4-dimethylpentane | 0.6 | < 0.1 | |
| benzene | 250 | 0.3 | 0.1-0.5 |
| cyclohexane | 0.5 | < 0.1 | |
| 2-methylhexane | 0.3 | < 0.1 | |
| 2,3-dimethylpentane | 0.1 | 0.1 | |
| 3-methylhexane | 1.6 | 0.1 | |
| 2,2,4-trimethylpentane | 2.8 | 0.2 | |

<u>LAB NO: 1616627</u> <u>Location: Maywood Fire</u>

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Quantitation of Organic Compounds by Gas Chromatography(GC) and Flame Ionization Detection (FID)

06/14/16

06/14/16

| Sample Date | 00/14/10 | 00/14/10 | |
|------------------------|----------------|--------------|--------------|
| Canister | 54766 | E0301 | |
| Sampling Location | Fruitland Ave. | 52nd Street | Ambient Air |
| Sampling Time | 8:45 AM | 10:25 AM | |
| | | | |
| Total NMOC, ppbC | 10400 | 120 | 100-700 ppbC |
| | | | |
| Compound | Conc. (ppbv) | Conc. (ppbv) | Conc. (ppbv) |
| n-heptane | 5.2 | 1.1 | 0.1-0.2 |
| methylcyclohexane | 0.6 | < 0.1 | |
| 2,3,4-trimethylpentane | 0.2 | < 0.1 | |
| toluene | 89 | 0.6 | 0.1-0.6 |
| 2-methylheptane | 0.3 | < 0.1 | |
| 3-methylheptane | 1.4 | < 0.1 | |
| n-octane | 0.7 | 0.9 | < 0.1-0.3 |
| ethylbenzene | 37 | 0.2 | 0.1-0.2 |
| m+p-xylenes | 10 | 0.3 | 0.1-0.2 |
| styrene | 210 | 0.5 | < 0.1-0.2 |
| o-xylene | 4.4 | 0.1 | 0.1-0.2 |
| n-nonane | 1.4 | < 0.1 | < 0.1-0.1 |
| isopropylbenzene | 4.9 | < 0.1 | |
| n-propylbenzene | 1.1 | < 0.1 | |
| m-ethyltoluene | 1.2 | < 0.1 | |
| p-ethyltoluene | 1.2 | < 0.1 | |
| 1,3,5-trimethylbenzene | 0.4 | < 0.1 | |
| o-ethyltoluene | 1.5 | < 0.1 | |
| 1,2,4-trimethylbenzene | 1.6 | < 0.1 | |
| n-decane | 1.3 | < 0.1 | < 0.1-0.1 |
| 1,2,3-trimethylbenzene | 0.1 | < 0.1 | |
| m-diethylbenzene | 5.3 | < 0.1 | |
| p-diethylbenzene | 0.8 | < 0.1 | |
| n-undecane | 1.3 | < 0.1 | < 0.1 |
| n-dodecane | 0.8 | < 0.1 | < 0.1 |

NMOC = Non-Methane Organic Compounds N.D. = Not Detected

Sample Date

<u>LAB NO: 1616627</u> <u>Location: Maywood Fire</u>

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Quantitation of Organic Compounds by Gas Chromatography(GC) and Flame Ionization Detection (FID)

| Sample Date | 06/14/16 | |
|------------------------|---------------------|--------------|
| Canister | 54322 | |
| Sampling Location | 1000 ft NW of event | Ambient Air |
| Sampling Time | 9:42 AM | Ambient An |
| omping rime | 2.12.1m.1 | |
| Total NMOC, ppbC | 250 | 100-700 ppbC |
| | | |
| Compound | Conc. (ppbv) | Conc. (ppbv) |
| ethane | 7.1 | |
| ethylene | 9.4 | 0.7-4.1 |
| acetylene | 4.0 | |
| propane | 6.0 | 0.4-5.0 |
| propylene | 2.9 | 0.2-0.7 |
| isobutane | 0.8 | 0.2-0.9 |
| n-butane | 1.2 | 0.3-1.7 |
| 1-butene | 0.4 | 0.1-0.3 |
| trans-2-butene | 0.1 | |
| cis-2-butene | <0.1 | |
| isopentane | 2.8 | |
| 1-pentene | 0.1 | |
| n-pentane | 0.9 | 0.1-0.6 |
| isoprene | 0.1 | |
| trans-2-pentene | <0.1 | |
| cis-2-pentene | <0.1 | |
| 2,2-dimethylbutane | <0.1 | |
| cyclopentane | <0.1 | |
| 2,3-dimethylbutane | <0.1 | |
| 2-methylpentane | 0.2 | |
| 3-methylpentane | 0.2 | |
| 1-hexene | 0.1 | <0.1-0.1 |
| n-hexane | 1.6 | 0.1-0.2 |
| methylcyclopentane | 0.2 | |
| 2,4-dimethylpentane | <0.1 | |
| benzene | 4.2 | 0.1-0.5 |
| cyclohexane | 0.2 | |
| 2-methylhexane | <0.1 | |
| 2,3-dimethylpentane | <0.1 | |
| 3-methylhexane | 0.1 | |
| 2,2,4-trimethylpentane | 0.1 | |

LAB NO: 1616627 **Location: Maywood Fire**

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Quantitation of Organic Compounds by Gas Chromatography(GC) and Flame Ionization Detection (FID)

| Sample Date Canister | 06/14/16 54322 | |
|-------------------------|---------------------|--------------|
| Sampling Location | 1000 ft NW of event | Ambient Air |
| Sampling Time | 9:42 AM | |
| | | |
| Total NMOC, ppbC | 250 | 100-700 ppbC |
| Compound | Conc. (ppbv) | Conc. (ppbv) |
| n-heptane | 1.7 | 0.1-0.2 |
| methylcyclohexane | <0.1 | |
| 2,3,4-trimethylpentane | <0.1 | |
| toluene | 1.8 | 0.1-0.6 |
| 2-methylheptane | <0.1 | |
| 3-methylheptane | <0.1 | |
| n-octane | 0.7 | <0.1-0.3 |
| ethylbenzene | 0.9 | 0.1-0.2 |
| m+p-xylenes | 0.6 | 0.1-0.2 |
| styrene | 2.3 | <0.1-0.2 |
| o-xylene | 0.5 | 0.1-0.2 |
| n-nonane | <0.1 | <0.1-0.1 |
| isopropylbenzene | <0.1 | |
| n-propylbenzene | <0.1 | |
| m-ethyltoluene | <0.1 | |
| p-ethyltoluene | <0.1 | |
| 1,3,5-trimethylbenzene | <0.1 | |
| o-ethyltoluene | <0.1 | |
| 1,2,4-trimethylbenzene | 0.2 | |
| n-decane | <0.1 | <0.1-0.1 |
| 1,2,3-trimethylbenzene | <0.1 | |
| m-diethylbenzene | <0.1 | |
| p-diethylbenzene | <0.1 | |
| n-undecane | <0.1 | < 0.1 |
| n-dodecane | <0.1 | <0.1 |

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

^{*} Sample canister cap was lose and valve was cracked open.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SAMPLE ANALYSIS REQUEST

| | DISTRICT INFORMA | TION |
|----|------------------|---------|
| | INVOICE SOURCE | |
| LA | BORATORY NO. | 1616627 |

| | TO: : | | OTHER: | | | |
|---|---------------------------|---------------|---------------------------------|------------------|---|--|
| | SOURCE NAME: Maywood Fire | | | I.D. No. | | |
| | Source Addre | ess: | | Ci | ty: Maywood | |
| | Mailing Address: | | | | | |
| | Contact Perso | on: | Solomon Teffera Titl | le: Acting Senio | or Manager Tel: 909-396-2180 | |
| Ш | | | Jason Low | | 6/14/16 | |
| | Approved by: | : | Jason Low Office | Emergency R | esponse Budget #: | |
| | REASON RE | QUESTE | D: Court/Hearing Board | Permit Pending | Hazardous/Toxic Spill | |
| | Suspected | Violation | Rule(s) | Other | Emergency Response | |
| | Sample Colle | ected by: | Various, see sample description | Date: 6/1 | 14/16 Time: See sample description | |
| | Sample Des | scription: | | | | |
| | Container | # | Collection Date/ Time | Collected By | Comments | |
| | SUMMA Canister | 54766 | 6/14/16 8:45am | Terry Wilkinson | Plume in front of 3570 Fruitland Ave, Maywood | |
| 2 | SUMMA Canister | E0301 | 6/14/16 10:25am | Larry Israel | 3550 52 nd St, Maywood | |
| | SUMMA Canister | 54322 | 6/14/16 9:42 am | Robert Wimmer | 1000 ft NNW of event | |
| 1 | SUMMA Canister | E5734 | 6/14/16 11:35am | Robert Wimmer | 60 ft east of event | |
| | Glass Plate | PM 149 | 6/14/16 10:40am | Robert Wimmer | Emergency vehicle 200 ft east of even | |
| , | Glass Plate | PM 149 Box | 6/14/16 10:40am | Robert Wimmer | Emergency vehicle 200 ft east of event | |
| | Glass Plate | PM 148 | 6/14/16 9:40am to 16:48 | Robert Wimmer | Approximately 1000 ft NNW of event. Plate was exposed during event | |
| | Glass Plate | PM 148 Box | 6/14/16 9:40am to 16:48 | Robert Wimmer | Approximately 1000 ft NNW of event Plate was exposed during event | |
| 7 | Glass Plate | PM 150 | 6/14/16 10:55am to 17:20 | Larry Israel | 3555 52 nd St, Maywood. Cinder block fence adj to driveway on west side of residence | |

Analysis Requested: SUMMA Canisters For TGNMNEOC, Toxics, and TO-15 Glass Plate For Metals

| | Relinquished by | Received by | Firm/Agency | Date | Time |
|-----------|-----------------|-------------|-------------|---------|--------|
| -01,-02 | Langue B. Jaw | 4204 | LAB | G14/16 | 343 pm |
| -03,04,05 | billi- | 2 de | L4B | 6/14/16 | 343pm |
| -07,08 | The | Douesto | SCADIMO LAB | 6/14/16 | 655 pm |
| | | | | | ' |

Remarks: Please send report to: Jason Low x. 2269

SUMMA Canister E5734 is invalid. The valve was open and the brass cap was loose.

Glass Plate PM 150 is invalid. Insufficient sample on glass plate.



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

Monitoring & Analysis

Chain-of-Custody Record for Sampling Equipment

| Type: | Glass | Plates | - Meta | uls (Aero | 801) | _ |
|--------------------|-----------|----------|---------|------------|-------|---|
| Identification Nur | mber: PM | 148, PMI | 49, PM1 | 50, PM151, | PMISZ | _ |
| | | | | | | |
| Requested by (pri | nt name): | Domne | · Wil- | joh | | |

| Relinquished by | Received by | Firm/Agency | Date | Time |
|-------------------|-------------|-------------|---------|-----------|
| Sally | Bury Wilson | SCAGMD | 4-20-16 | 0700 |
| the Bedley PM 152 | KillyVarsh | CAB | 6/15/6 | (157:152) |
| Ho Bodela PAINS | Baucero | Lab | 6/14/16 | 6:55pm |
| 131 (30 | | | | |
| | | | | |
| | | | | |
| | | | | |