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

MONITORING & ANALYSIS REPORT OF LABORATORY ANALYSIS

TO: Cher Snyder Assistant DEO	LABORATORY NO:	1607713
Engineering and Compliance	REFERENCE NO:	GC6-3-80
SAMPLE DESCRIPTION:	DATE SAMPLED:	03/15/16
Triggered Sample Canister: 54045	DATE RECEIVED:	03/17/16
	DATE ANALYZED:	03/18/16
SAMPLE LOCATION:		
Porter Ranch Castlebay Elementary	ANALYZED BY:	Yang Song
School	REQUESTED BY:	Sumner Wilson

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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

Note: See attached for speciated results.

Date Approved: 3/24/16 Approved By:

Rudy Eden, Sr. Manager Laboratory Services Branch

(909) 396-2391

<u>LAB NO: 1607713</u> <u>Location: Porter Ranch/Castlebay Elem</u>

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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

Sample Date	03/15/16	
Canister	54045	
Sampling Location	Castlebay Elementary	Ambient Air
Total NMOC, ppbC	618	100-700 ppbC
Compound	Conc. (ppbv)	Conc. (ppbv)
ethylene	0.2	0.7-4.1
acetylene	0.5	
propane	75	0.4-5.0
propylene	<0.1	0.2-0.7
isobutane	1.6	0.2-0.9
n-butane	26	0.3-1.7
1-butene	<0.1	0.1-0.3
trans-2-butene	<0.1	
cis-2-butene	<0.1	
isopentane	25	
1-pentene	<0.1	
n-pentane	0.5	0.1-0.6
isoprene	0.1	
trans-2-pentene	N.D.	
cis-2-pentene	N.D.	
2,2-dimethylbutane	< 0.1	
cyclopentane	<0.1	
2,3-dimethylbutane	<0.1	
2-methylpentane	0.1	
3-methylpentane	<0.1	
1-hexene	< 0.1	<0.1-0.1
n-hexane	0.1	0.1-0.2
methylcyclopentane	0.1	
2,4-dimethylpentane	< 0.1	
benzene	0.2	0.1-0.5
cyclohexane	0.1	
2-methylhexane	< 0.1	
2,3-dimethylpentane	< 0.1	
3-methylhexane	< 0.1	
2,2,4-trimethylpentane	< 0.1	
n-heptane	< 0.1	0.1-0.2
4.1.1.1	0.0	

0.2

methylcyclohexane

<u>LAB NO: 1607713</u> <u>Location: Porter Ranch/Castlebay Elem</u>

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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

Canister 54045 Sampling Location Castlebay Elementary Ambient Air Total NMOC, ppbC 618 100-700 ppbC Compound Conc. (ppbv) Conc. (ppbv) 2,3,4-trimethylpentane <0.1 0.1-0.6 2-methylheptane <0.1 <0.1-0.6 3-methylheptane <0.1 <0.1-0.3 athylbenzene <0.1 <0.1-0.2 m-poctane <0.1 <0.1-0.2 athylbenzene <0.1 <0.1-0.2 m+p-xylenes <0.1 <0.1-0.2 styrene <0.1 <0.1-0.2 o-xylene <0.1 <0.1-0.2 n-nonane <0.1 <0.1-0.2 n-nonane <0.1 <0.1-0.1 isopropylbenzene <0.1 <0.1-0.1 n-propylbenzene <0.1 <0.1-0.1 n-propylbenzene <0.1 <0.1-0.1 n-tyltoluene <0.1 <0.1-0.1 1,2,4-trimethylbenzene <0.1 <0.1-0.1 0-tyltoluene <0.1 <0.1-0.	Sample Date	03/15/16	
Total NMOC, ppbC 618 100-700 ppbC Compound 2,3,4-trimethylpentane toluene Conc. (ppbv) 0.1 2-methylheptane 3-methylheptane <0.1 3-methylheptane n-octane <0.1 618 0.1-0.0 2-methylheptane <0.1 3-methylheptane <0.1 n-octane <0.1 40.1 <0.1-0.2 m+p-xylenes <0.1 40.1 <0.1-0.2 styrene <0.1 40.1 <0.1-0.2 n-nonane <0.1 40.1 <0.1-0.2 n-nonane <0.1 40.1 <0.1-0.2 n-propylbenzene <0.1 n-propylbenzene <0.1 n-ethyltoluene <0.1 1,3,5-trimethylbenzene <0.1 0-ethyltoluene <0.1 1,2,4-trimethylbenzene <0.1 n-decane <0.1 40.1 <0.1-0.1 1,2,3-trimethylbenzene <0.1 n-diethylbenzene <0.1 <tr< th=""><th>Canister</th><th>54045</th><th></th></tr<>	Canister	54045	
Compound Conc. (ppbv) 2,3,4-trimethylpentane <0.1 toluene 0.2 0.1-0.6 2-methylheptane <0.1 <0.1-0.3 3-methylheptane <0.1 <0.1-0.3 n-octane <0.1 <0.1-0.3 ethylbenzene <0.1 <0.1-0.2 m+p-xylenes <0.1 <0.1-0.2 styrene <0.1 <0.1-0.2 o-xylene <0.1 <0.1-0.2 o-xylene <0.1 <0.1-0.2 n-nonane <0.1 <0.1-0.2 isopropylbenzene <0.1 <0.1-0.1 n-propylbenzene <0.1 <0.1-0.1 n-typelbenzene <0.1 <0.1-0.1 n-typelbenzene <0.1 <0.1-0.1 n-typelbenzene	Sampling Location	Castlebay Elementary	Ambient Air
2,3,4-trimethylpentane <0.1 toluene 0.2 2-methylheptane <0.1 3-methylheptane <0.1 n-octane <0.1 ethylbenzene <0.1 m+p-xylenes <0.1 styrene <0.1 o-xylene <0.1 n-nonane <0.1 isopropylbenzene <0.1 n-propylbenzene <0.1 m-ethyltoluene <0.1 p-ethyltoluene <0.1 o-ethyltoluene <0.1 o-ethyltoluene <0.1 1,2,4-trimethylbenzene <0.1 n-decane <0.1 1,2,3-trimethylbenzene <0.1 m-diethylbenzene <0.1 p-diethylbenzene <0.1 n-undecane <0.1	Total NMOC, ppbC	618	100-700 ppbC
toluene 0.2 2-methylheptane <0.1 3-methylheptane <0.1 n-octane <0.1 ethylbenzene <0.1 m+p-xylenes <0.1 o-xylene <0.1 n-nonane <0.1 isopropylbenzene <0.1 n-propylbenzene <0.1 m-ethyltoluene <0.1 p-ethyltoluene <0.1 1,2,4-trimethylbenzene <0.1 n-decane <0.1 1,2,3-trimethylbenzene <0.1 n-decane <0.1 n-dethylbenzene <0.1 n-dethylbenzene <0.1 n-dethylbenzene <0.1 n-decane <0.1 n-dethylbenzene <0.1 n-dethylbenzene <0.1 n-decane <0.1	Compound	Conc. (ppbv)	Conc. (ppbv)
2-methylheptane <0.1	2,3,4-trimethylpentane	< 0.1	
3-methylheptane <0.1	toluene	0.2	0.1-0.6
n-octane <0.1	2-methylheptane	< 0.1	
ethylbenzene <0.1	3-methylheptane	< 0.1	
m+p-xylenes <0.1	n-octane	< 0.1	< 0.1-0.3
styrene <0.1	ethylbenzene	< 0.1	0.1-0.2
o-xylene	m+p-xylenes	< 0.1	0.1-0.2
n-nonane <0.1	styrene	< 0.1	< 0.1-0.2
isopropylbenzene <0.1	o-xylene	< 0.1	0.1-0.2
n-propylbenzene	n-nonane	< 0.1	< 0.1-0.1
m-ethyltoluene	isopropylbenzene	< 0.1	
p-ethyltoluene <0.1	n-propylbenzene	< 0.1	
1,3,5-trimethylbenzene <0.1	m-ethyltoluene	< 0.1	
o-ethyltoluene	p-ethyltoluene	< 0.1	
1,2,4-trimethylbenzene <0.1	1,3,5-trimethylbenzene	< 0.1	
n-decane <0.1	o-ethyltoluene	< 0.1	
1,2,3-trimethylbenzene <0.1 m-diethylbenzene <0.1 p-diethylbenzene <0.1 n-undecane <0.1 <0.1	1,2,4-trimethylbenzene	< 0.1	
m-diethylbenzene <0.1 p-diethylbenzene <0.1 n-undecane <0.1 <0.1	n-decane	< 0.1	< 0.1-0.1
p-diethylbenzene <0.1 n-undecane <0.1 <0.1	1,2,3-trimethylbenzene	< 0.1	
n-undecane <0.1	m-diethylbenzene	< 0.1	
	p-diethylbenzene	< 0.1	
n-dodecane <0.1	n-undecane	< 0.1	<0.1
	n-dodecane	< 0.1	<0.1

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SAMPLE ANALYSIS REQUEST

X	DISTE
	INVO
	LAP A
	BOR



TO: SCAQMD LAB:	OTHER:	: 🗆			
SOURCE NAME:	Southern Cali	fornia Gas Co	. I.D. 1	No.	
Source Address: 12801 Tam					
Mailing Address:					
Analysis Requested by:	Sumner V	Wilson	Date:	3/17/16	i.
Approved by: Jason L	owO	ffice:		Budget #:	44716
REASON REQUESTED: Cou Suspected Violation Rule	_			Hazardous/Tox	ic Spill
Sample Collected by:	R. Wimmer	Date:	3/15/16	Time:	11:00
	TO HIS WELL		PAMS analysis		
City/Location	Can#	Start day	/ time/ duration	Start vac	End vac
Castle Bay Charter School	54045	3/15/16	10:33 am 5 min	-30"	-1"
Relinquished by	Received	l by	Firm/Agency	Date	Time
60			SCAQMD Lab	3/17/16	9:39
Remarks: Samples collected by passive Trigger is set to 5ppm Castle Bay Charter School 19010 Castle GPS: 34.315022, -118.564872			iggered by the Mocon	NMHC.	