

# Bay Area Air Quality Management District

375 Beale Street, Suite 600, San Francisco, CA-94105, (415) 749-5014

<b>REPORT OF LABORATORY ANALYSIS</b>	<b>FL-2</b>
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<b>Meteorology and Measurement Division</b> <b>Laboratory Services Section</b>	<b>To: R. Franicevich</b> <b>Person Submitting Sample</b> <b>M and M Division</b>
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<b>Lab Method:</b> Method 44A (GC-SCD)/ Lab SOP 309 <b>Sample Location:</b> Sewage Agency of Southern Marin, 450 Sycamore Avenue, Mill Valley, CA-94941 <b>Sample Type:</b> Ambient air grab sample at location #1, Sycamore Ave. road side in TO-Can #1366 <b>Source Operation:</b> <b>Date Received:</b> 10/18/2018 <b>Analyst:</b> H. V. Amin <i>H. V. Amin</i>	<b>Lab No:</b> 18-058 <b>SITE#</b> A1345 <b>Date Analyzed:</b> 10/18, 10/19/18 <b>Lab Ref:</b> HA05 : 94
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**(1) RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR Sulfur compounds**

Restek TO-Can #1336

COMPOUND	Conc. ppb	COMPOUND	Conc. ppb
Hydrogen sulfide H2S	5.7	Ethyl mercaptan	ND
Carbonyl sulfide	ND	Dimethyl sulfide	ND
Sulfur dioxide	ND	Carbon disulfide	ND
Methyl mercaptan	ND	Dimethyl disulfide	ND
		TRS	5.7

Notes: 1. The sample was pressurised with nitrogen before analysis. (DF = 1.46) ND = not detected

**(2) RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR AIR TOXICS**

COMPOUND	Canister #1336 (DF= 1.46) CONCENTRATION (ppb)	MDL (PPB)
VINYL CHLORIDE	<MDL	0.020
1,3 BUTADIENE	<MDL	0.011
Ethanol	0.83	0.033
Acetonitrile	<MDL	0.007
ACETONE	2.94	0.057
FREON 11	0.23	0.016
Acrylonitrile	<MDL	0.011
Dichloromethane	<MDL	0.013
FREON 113	0.06	0.006
MEK (2-butanone)	<MDL	0.029
Chloroform	<MDL	0.003
1,2- DCE	<MDL	0.004
1,1,1-trichloethane	<MDL	0.003
BENZENE	<MDL	0.009
CARBON TETRACHLORIDE	0.10	0.002
TCE	<MDL	0.004
TOLUENE	<MDL	0.010
1,2-dibromoethane	<MDL	0.003
PERC	<MDL	0.002
ET-BENZENE	<MDL	0.008
m,p-Xylene	<MDL	0.011
o-Xylene	<MDL	0.011

V. N. Recommend

- YES      REG. \_\_\_ RULE \_\_\_ SEC. \_\_\_  
 NO  
 FURTHER EVALUATION NEEDED  
 FOR INFORMATION ONLY

*Mairi Beacon*

*10 Oct 18*

**Mairi Beacon**  
Laboratory Services Manager

Date

# Bay Area Air Quality Management District


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## REPORT OF LABORATORY ANALYSIS

**FL-2**

**Meteorology and Measurement Division  
Laboratory Services Section**

**To: R. Franicevich  
Person Submitting Sample  
M and M Division**

**Lab Method:** Method 44A (GC-SCD)/ Lab SOP 309      **Lab No:** 18-059  
**Sample Location:** Sewage Agency of Southern Marin, 450 Sycamore Avenue, Mill Valley, CA-94941  
**Sample Type:** Grab sample at SASM parking lot location #2 in Restek Silco-Can ST-411  
**Source Operation:**      **SITE#** A1345  
**Date Received:** 10/18/2018      **Date Analyzed:** 10/18, 10/19/18  
**Analyst:** H. V. Amin       **Lab Ref:** HA05 : 95

**(1) RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR Sulfur compounds**

Restek Silco-Can #ST-411

COMPOUND	Conc. ppb	COMPOUND	Conc. ppb
Hydrogen sulfide H2S	4.0	Ethyl mercaptan	ND
Carbonyl sulfide	ND	Dimethyl sulfide	ND
Sulfur dioxide	ND	Carbon disulfide	ND
Methyl mercaptan	ND	Dimethyl disulfide	ND
		TRS	4.0

Notes: 1. The sample was pressurised with nitrogen before analysis. (DF = 1.36) ND = not detected

**(2) RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR AIR TOXICS**

COMPOUND	Canister #ST-411 (DF= 1.36)		MDL (PPB)
	CONCENTRATION (ppb)		
VINYL CHLORIDE		<MDL	0.020
1,3 BUTADIENE		<MDL	0.011
Ethanol		0.37	0.033
Acetonitrile		<MDL	0.007
ACETONE		1.54	0.057
FREON 11		0.22	0.016
Acrylonitrile		<MDL	0.011
Dichloromethane		<MDL	0.013
FREON 113		0.06	0.006
MEK (2-butanone)		<MDL	0.029
Chloroform		<MDL	0.003
1,2- DCE		<MDL	0.004
1,1,1-trichloethane		<MDL	0.003
BENZENE		<MDL	0.009
CARBON TETRACHLORIDE		0.09	0.002
TCE		<MDL	0.004
TOLUENE		<MDL	0.010
1,2-dibromoethane		<MDL	0.003
PERC		<MDL	0.002
ET-BENZENE		<MDL	0.008
m,p-Xylene		<MDL	0.011
o-Xylene		<MDL	0.011

V. N. Recommended

- YES      REG. \_\_\_ RULE \_\_\_ SEC. \_\_\_  
 NO  
 FURTHER EVALUATION NEEDED  
 FOR INFORMATION ONLY

  
**Mairi Beacon**  
 Laboratory Services Manager

190018  
 Date

# Bay Area Air Quality Management District

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<b>REPORT OF LABORATORY ANALYSIS</b>	<b>FL-2</b>
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<b>Meteorology and Measurement Division</b> <b>Laboratory Services Section</b>	<b>To: R. Franicevich</b> <b>Person Submitting Sample</b> <b>M and M Division</b>
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<b>Lab Method:</b> Method 44A (GC-SCD)/ Lab SOP 309	<b>Lab No:</b> 18-060
<b>Sample Location:</b> Sewage Agency of Southern Marin, 450 Sycamore Avenue, Mill Valley, CA-94941	
<b>Sample Type:</b> Grab sample at location #3, Mill Valley Middle School parking lot in Restek Silco-Can ST-421	
<b>Source Operation:</b>	<b>SITE#</b> A1345
<b>Date Received:</b> 10/18/2018	<b>Date Analyzed:</b> 10/18, 10/19/18
<b>Analyst:</b> H. V. Amin	<b>Lab Ref:</b> HA05 : 95

(1) **RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR Sulfur compounds**  
 Restek Silco-Can #ST-421

COMPOUND	Conc. ppb	COMPOUND	Conc. ppb
Hydrogen sulfide H2S	3.1	Ethyl mercaptan	ND
Carbonyl sulfide	ND	Dimethyl sulfide	ND
Sulfur dioxide	ND	Carbon disulfide	ND
Methyl mercaptan	ND	Dimethyl disulfide	ND
		TRS	3.1

Notes: 1. The sample was pressurised with nitrogen before analysis. (DF = 1.36) ND = not detected

(2) **RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR AIR TOXICS**

COMPOUND	Canister #ST-421 (DF= 1.36)			MDL (PPB)
	CONCENTRATION (ppb)			
VINYL CHLORIDE			<MDL	0.020
1,3 BUTADIENE			<MDL	0.011
Ethanol			<MDL	0.033
Acetonitrile			<MDL	0.007
ACETONE			2.04	0.057
FREON 11			0.22	0.016
Acrylonitrile			<MDL	0.011
Dichloromethane			<MDL	0.013
FREON 113			0.06	0.006
MEK (2-butanone)			<MDL	0.029
Chloroform			<MDL	0.003
1,2- DCE			<MDL	0.004
1,1,1-trichloethane			<MDL	0.003
BENZENE			<MDL	0.009
CARBON TETRACHLORIDE			0.09	0.002
TCE			<MDL	0.004
TOLUENE			<MDL	0.010
1,2-dibromoethane			<MDL	0.003
PERC			<MDL	0.002
ET-BENZENE			<MDL	0.008
m,p-Xylene			<MDL	0.011
o-Xylene			<MDL	0.011

V. N. Recommenc  Mairi Beacon Laboratory Services Manager	<input type="checkbox"/> YES    REG. ___ RULE ___ SEC. ___ <input type="checkbox"/> NO <input type="checkbox"/> FURTHER EVALUATION NEEDED <input checked="" type="checkbox"/> FOR INFORMATION ONLY <div style="text-align: center; margin-top: 10px;">                     190418                      Date                 </div>
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## REPORT OF LABORATORY ANALYSIS

**FL-2**

**Meteorology and Measurement Division  
Laboratory Services Section**

**To: R. Franicevich  
Person Submitting Sample  
M and M Division**

**Lab Method:** Method 44A (GC-SCD)/ Lab SOP 309      **Lab No:** 18-061  
**Sample Location:** Sewage Agency of Southern Marin, 450 Sycamore Avenue, Mill Valley, CA-94941  
**Sample Type:** Grab sample at Mill Valley Middle School Location #4 in Restek Silco-Can ST-451  
**Source Operation:**      **SITE#** A1345  
**Date Received:** 10/18/2018      **Date Analyzed:** 10/18, 10/19/18  
**Analyst:** H. V. Amin *[Signature]*      **Lab Ref:** HA05 : 95

**(1) RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR Sulfur compounds**

Restek Silco-Can #ST-451

COMPOUND	Conc. ppb	COMPOUND	Conc. ppb
Hydrogen sulfide H2S	2.6	Ethyl mercaptan	ND
Carbonyl sulfide	ND	Dimethyl sulfide	ND
Sulfur dioxide	ND	Carbon disulfide	ND
Methyl mercaptan	ND	Dimethyl disulfide	ND
		TRS	2.6

Notes: 1. The sample was pressurised with nitrogen before analysis. (DF = 1.37) ND = not detected

**(2) RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR AIR TOXICS**

COMPOUND	Canister #ST-451	(DF= 1.37)	CONCENTRATION (ppb)	MDL (PPB)
VINYL CHLORIDE			<MDL	0.020
1,3 BUTADIENE			<MDL	0.011
Ethanol			2.66	0.033
Acetonitrile			<MDL	0.007
ACETONE			1.85	0.057
FREON 11			0.23	0.016
Acrylonitrile			<MDL	0.011
Dichloromethane			<MDL	0.013
FREON 113			0.06	0.006
MEK (2-butanone)			<MDL	0.029
Chloroform			<MDL	0.003
1,2- DCE			<MDL	0.004
1,1,1-trichloethane			<MDL	0.003
BENZENE			<MDL	0.009
CARBON TETRACHLORIDE			0.09	0.002
TCE			<MDL	0.004
TOLUENE			0.28	0.010
1,2-dibromoethane			<MDL	0.003
PERC			<MDL	0.002
ET-BENZENE			0.07	0.008
m,p-Xylene			0.16	0.011
o-Xylene			0.06	0.011

V. N. Recommend

- YES      REG. \_\_\_ RULE \_\_\_ SEC. \_\_\_  
 NO  
 FURTHER EVALUATION NEEDED  
 FOR INFORMATION ONLY

*[Signature]*      1/30 Oct 2018  
**Mairi Beacon**      Date  
**Laboratory Services Manager**