

Bay Area Air Quality Management District

939 Ellis Street, San Francisco, CA 94109 (415) 749-5014

REPORT OF LABORATORY ANALYSIS	FL-2
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Technical Division Laboratory Services Section	To: K. Vo Person Submitting Sample Enforcement Division
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Lab Method: GC-MS		Lab No: 12-040
Sample Location: Chevron Refinery, 841 Chevron Way, Richmond, CA 94801		
Sample Type: Ambient air in Canister ENF-28 from 1st Baptist Church, 4555 Hilltop Dr. El Sobrante on 8/6/12 @ 7:36pm.		
Source Operation:	SITE#	A 0010
Date Received: 8/7/2012	Date Analyzed:	8/7/2012
Analyst: M. Beacon / H. Amin <i>[Signature]</i>	Lab Ref:	HA4:090

RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR AIR TOXICS

COMPOUND	Silco Can Canister ENF-28 (DF= 1.34)			MDL
	CONCENTRATION (ppb)			(PPB)
VINYL CHLORIDE			<MDL	0.006
1,3 BUTADIENE			0.01	0.009
FREON 11			0.20	0.014
Ethanol			9.37	0.231
2 propenal (Acrolein)			0.55	0.110
FREON 113			<MDL	0.018
ACETONE			2.17	0.078
Acetonitrile			0.05	0.040
Dichloromethane			0.22	0.071
Acrylonitrile			<MDL	0.011
MEK			0.51	0.024
Chloroform			<MDL	0.012
1,1,1-trichloethane			<MDL	0.006
CARBON TETRACHLORIDE			0.12	0.001
BENZENE			0.06	0.014
1,2- DCE			<MDL	0.008
TCE			<MDL	0.011
TOLUENE			0.11	0.020
PERC			0.010	0.002
1,2-dibromoethane			<MDL	0.005
ET-BENZENE			0.02	0.016
m,p-Xylene			0.07	0.019
o-Xylene			0.03	0.008

V. N. Recommended: <div style="text-align: right; margin-top: 20px;"> _____ James Hesson Laboratory Services Manager </div>	<table style="width: 100%;"> <tr> <td><input type="checkbox"/> YES</td> <td>REG. ___</td> <td>RULE ___</td> <td>SEC. ___</td> </tr> <tr> <td><input type="checkbox"/> NO</td> <td colspan="3"></td> </tr> <tr> <td><input type="checkbox"/> FURTHER EVALUATION NEEDED</td> <td colspan="3"></td> </tr> <tr> <td><input checked="" type="checkbox"/> FOR INFORMATION ONLY</td> <td colspan="3"></td> </tr> <tr> <td></td> <td colspan="3" style="text-align: center;"> 8/7/12 _____ Date </td> </tr> </table>	<input type="checkbox"/> YES	REG. ___	RULE ___	SEC. ___	<input type="checkbox"/> NO				<input type="checkbox"/> FURTHER EVALUATION NEEDED				<input checked="" type="checkbox"/> FOR INFORMATION ONLY					8/7/12 _____ Date		
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REPORT OF LABORATORY ANALYSIS	FL-2
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Technical Division Laboratory Services Section	To: K. Vo Person Submitting Sample Enforcement Division
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Lab Method:	GC-MS	Lab No:	12-041
Sample Location:	Chevron Refinery, 841 Chevron Way, Richmond, CA 94801		
Sample Type:	Ambient air in Canister ENF-35 from Walter Middle School, 2500 Rd.20, San Pablo on 8/6/12 @ 8:08pm.		
Source Operation:		SITE#	A 0010
Date Received:	8/7/2012	Date Analyzed:	8/7/2012
Analyst:	M. Beacon / H. Amin <i>[Signature]</i>	Lab Ref:	HA4:090

RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR AIR TOXICS

COMPOUND	Silco Can Canister ENF-35 (DF= 1.27) CONCENTRATION (ppb)			MDL (PPB)
VINYL CHLORIDE			<MDL	0.006
1,3 BUTADIENE			<MDL	0.009
FREON 11			0.17	0.014
Ethanol			1.90	0.231
2 propenal (Acrolein)			0.27	0.110
FREON 113			0.05	0.018
ACETONE			1.42	0.078
Acetonitrile			0.04	0.040
Dichloromethane			0.22	0.071
Acrylonitrile			<MDL	0.011
MEK			0.05	0.024
Chloroform			0.02	0.012
1,1,1-trichloethane			<MDL	0.006
CARBON TETRACHLORIDE			0.11	0.001
BENZENE			0.05	0.014
1,2- DCE			0.01	0.008
TCE			<MDL	0.011
TOLUENE			0.09	0.020
PERC			0.010	0.002
1,2-dibromoethane			<MDL	0.005
ET-BENZENE			0.02	0.016
m,p-Xylene			0.04	0.019
o-Xylene			0.02	0.008

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REPORT OF LABORATORY ANALYSIS	FL-2
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Technical Division Laboratory Services Section	To: Neal Price / K. Vo Person Submitting Sample Enforcement Division
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Lab Method:	GC-MS	Lab No: 12-042
Sample Location:	Contra Costa Health, 4585 Pacheco Blvd., Martinez, CA 94553	
Sample Type:	Chevron refinery release sample from Arlington Blvd. & Potrero Ave., El Cerrito on 8/6/12 @ 8:05pm.	
Source Operation:	SITE#	
Date Received:	8/7/2012	Date Analyzed: 8/7/2012
Analyst:	M. Beacon / H. Amin <i>[Signature]</i>	Lab Ref: HA4:090

RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR AIR TOXICS

COMPOUND	Suma Canister CCCHSD-1 (DF= 1.27) CONCENTRATION (ppb)	MDL (PPB)
VINYL CHLORIDE	<MDL	0.006
1,3 BUTADIENE	<MDL	0.009
FREON 11	0.23	0.014
Ethanol	15.30	0.231
2 propenal (Acrolein)	3.23	0.110
FREON 113	0.07	0.018
ACETONE	7.96	0.078
Acetonitrile	0.22	0.040
Dichloromethane	0.25	0.071
Acrylonitrile	<MDL	0.011
MEK	2.07	0.024
Chloroform	0.03	0.012
1,1,1-trichloethane	0.01	0.006
CARBON TETRACHLORIDE	0.16	0.001
BENZENE	0.17	0.014
1,2- DCE	0.02	0.008
TCE	<MDL	0.011
TOLUENE	0.20	0.020
PERC	0.010	0.002
1,2-dibromoethane	<MDL	0.005
ET-BENZENE	0.05	0.016
m,p-Xylene	0.12	0.019
o-Xylene	0.04	0.008

* GC/MS tentatively identified ppb levels of Butanal, Pentanal, Hexanal and Heptanal in the sample.

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REPORT OF LABORATORY ANALYSIS	FL-2
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Technical Division Laboratory Services Section	To: Jerry Yoshioka / K. Vo Person Submitting Sample Enforcement Division
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Lab Method:	GC-MS	Lab No: 12-043
Sample Location:	Chevron Refinery, 841 Chevron Way, Richmond, CA 94801	
Sample Type:	Ambient air in Canister CCCHSD #3 from Kaiser, 200 Muir Rd., Martinez on 8/6/12 @ 9:43pm.	
Source Operation:	SITE#	A 0010
Date Received:	8/7/2012	Date Analyzed: 8/7/2012
Analyst:	M. Beacon / H. Amin <i>[Signature]</i>	Lab Ref: HA4:090

RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR AIR TOXICS

COMPOUND	Suma Canister CCCHSD #3 (DF= 1.27) CONCENTRATION (ppb)	MDL (PPB)
VINYL CHLORIDE	<MDL	0.006
1,3 BUTADIENE	<MDL	0.009
FREON 11	0.22	0.014
Ethanol	4.19	0.231
2 propenal (Acrolein)	0.20	0.110
FREON 113	0.07	0.018
ACETONE	8.19	0.078
Acetonitrile	0.04	0.040
Dichloromethane	0.21	0.071
Acrylonitrile	<MDL	0.011
MEK	0.31	0.024
Chloroform	0.02	0.012
1,1,1-trichloethane	<MDL	0.006
CARBON TETRACHLORIDE	0.14	0.001
BENZENE	0.19	0.014
1,2- DCE	0.01	0.008
TCE	<MDL	0.011
TOLUENE	0.12	0.020
PERC	0.010	0.002
1,2-dibromoethane	<MDL	0.005
ET-BENZENE	0.02	0.016
m,p-Xylene	0.06	0.019
o-Xylene	0.02	0.008

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Technical Division Laboratory Services Section	To: Jerry Yoshioka / K. Vo Person Submitting Sample Enforcement Division
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Lab Method:	GC-MS	Lab No: 12-044
Sample Location:	Chevron Refinery, 841 Chevron Way, Richmond, CA 94801	
Sample Type:	Ambient air in Canister #11 from Walnut Ave. & Alhambra, Martinez on 8/6/12 @ 9:19pm.	
Source Operation:	SITE#	A 0010
Date Received:	8/7/2012	Date Analyzed: 8/7/2012
Analyst:	M. Beacon / H. Amin <i>M. Beacon</i>	Lab Ref: HA4:090

RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR AIR TOXICS

COMPOUND	Suma Canister #11 (DF= 1.27) CONCENTRATION (ppb)	MDL (PPB)
VINYL CHLORIDE	<MDL	0.006
1,3 BUTADIENE	<MDL	0.009
FREON 11	0.22	0.014
Ethanol	4.59	0.231
2 propenal (Acrolein)	0.30	0.110
FREON 113	0.06	0.018
ACETONE	5.29	0.078
Acetonitrile	0.37	0.040
Dichloromethane	0.21	0.071
Acrylonitrile	<MDL	0.011
MEK	0.65	0.024
Chloroform	<MDL	0.012
1,1,1-trichloethane	<MDL	0.006
CARBON TETRACHLORIDE	0.15	0.001
BENZENE	0.16	0.014
1,2- DCE	0.01	0.008
TCE	<MDL	0.011
TOLUENE	0.16	0.020
PERC	<MDL	0.002
1,2-dibromoethane	<MDL	0.005
ET-BENZENE	0.03	0.016
m,p-Xylene	0.08	0.019
o-Xylene	0.04	0.008

V. N. Recommended: _____ James Hesson 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;"> <u>8/7/12</u> Date </div>
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Technical Division Laboratory Services Section	To: Neal Price / K. Vo Person Submitting Sample Enforcement Division
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Lab Method:	GC-MS	Lab No: 12-045
Sample Location:	Chevron Refinery, 841 Chevron Way, Richmond, CA 94801	
Sample Type:	Ambient air in Canister SL-6 from Arlington & Tamalpais Ave. El Cerrito on 8/6/12 @ 8:29pm.	
Source Operation:		SITE# A 0010
Date Received:	8/7/2012	Date Analyzed: 8/7/2012
Analyst:	M. Beacon / H. Amin	Lab Ref: HA4:090

RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR AIR TOXICS

COMPOUND	Suma Canister SL-6 (DF= 1.27) CONCENTRATION (ppb)	MDL (PPB)
VINYL CHLORIDE	<MDL	0.006
1,3 BUTADIENE	<MDL	0.009
FREON 11	0.22	0.014
Ethanol	5.02	0.231
2 propenal (Acrolein)	0.19	0.110
FREON 113	0.08	0.018
ACETONE	2.19	0.078
Acetonitrile	<MDL	0.040
Dichloromethane	0.21	0.071
Acrylonitrile	<MDL	0.011
MEK	0.15	0.024
Chloroform	0.02	0.012
1,1,1-trichloethane	<MDL	0.006
CARBON TETRACHLORIDE	0.15	0.001
BENZENE	0.07	0.014
1,2- DCE	0.01	0.008
TCE	<MDL	0.011
TOLUENE	0.15	0.020
PERC	0.010	0.002
1,2-dibromoethane	<MDL	0.005
ET-BENZENE	0.03	0.016
m,p-Xylene	0.10	0.019
o-Xylene	0.03	0.008

V. N. Recommended: 	<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;"> <u>8/7/12</u> Date </div>
James Hesson Laboratory Services Manager	

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Technical Division Laboratory Services Section	To: Neal Price / K. Vo Person Submitting Sample Enforcement Division
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Lab Method:	GC-MS	Lab No: 12-046
Sample Location:	Chevron Refinery, 841 Chevron Way, Richmond, CA 94801	
Sample Type:	Ambient air in Canister CCCHSD #17 from 40th & Barrett Ave., Richmond on 8/6/12 @ 7:46pm.	
Source Operation:	SITE#	A 0010
Date Received:	Date Analyzed:	8/7/2012
Analyst:	Lab Ref:	HA4:090

RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR AIR TOXICS

COMPOUND	Suma Canister CCCHSD #17 (DF= 1.20) CONCENTRATION (ppb)	MDL (PPB)
VINYL CHLORIDE	<MDL	0.006
1,3 BUTADIENE	<MDL	0.009
FREON 11	0.22	0.014
Ethanol	15.38	0.231
2 propenal (Acrolein)	0.83	0.110
FREON 113	0.04	0.018
ACETONE	8.97	0.078
Acetonitrile	<MDL	0.040
Dichloromethane	0.23	0.071
Acrylonitrile	<MDL	0.011
MEK	1.65	0.024
Chloroform	0.02	0.012
1,1,1-trichloethane	0.01	0.006
CARBON TETRACHLORIDE	0.15	0.001
BENZENE	0.06	0.014
1,2- DCE	0.01	0.008
TCE	<MDL	0.011
TOLUENE	0.09	0.020
PERC	<MDL	0.002
1,2-dibromoethane	<MDL	0.005
ET-BENZENE	0.02	0.016
m,p-Xylene	0.06	0.019
o-Xylene	0.02	0.008

V. N. Recommended: _____ James Hesson 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: right; margin-top: 10px;"> _____ Date </div>
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Technical Division Laboratory Services Section	To: Neal Price / K. Vo Person Submitting Sample Enforcement Division
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Lab Method: GC-MS	Lab No: 12-047
Sample Location: Chevron Refinery, 841 Chevron Way, Richmond, CA 94801	
Sample Type: Ambient air in Canister SL-1 from Hensley St. & Castro St., Richmond on 8/6/12 @ 7:32pm.	
Source Operation:	SITE# A 0010
Date Received: 8/7/2012	Date Analyzed: 8/7/2012
Analyst: M. Beacon / H. Amir <i>H. Amir</i>	Lab Ref: HA4:090

RESULTS OF GAS CHROMATOGRAPHIC ANALYSIS FOR AIR TOXICS

COMPOUND	Suma Canister SL-1 (DF= 1.27) CONCENTRATION (ppb)	MDL (PPB)
VINYL CHLORIDE	<MDL	0.006
1,3 BUTADIENE	<MDL	0.009
FREON 11	0.23	0.014
Ethanol	6.39	0.231
2 propenal (Acrolein)	0.23	0.110
FREON 113	0.06	0.018
ACETONE	1.50	0.078
Acetonitrile	0.04	0.040
Dichloromethane	0.16	0.071
Acrylonitrile	<MDL	0.011
MEK	0.14	0.024
Chloroform	<MDL	0.012
1,1,1-trichloethane	<MDL	0.006
CARBON TETRACHLORIDE	0.16	0.001
BENZENE	0.05	0.014
1,2- DCE	0.02	0.008
TCE	<MDL	0.011
TOLUENE	0.09	0.020
PERC	<MDL	0.002
1,2-dibromoethane	<MDL	0.005
ET-BENZENE	0.02	0.016
m,p-Xylene	0.05	0.019
o-Xylene	0.02	0.008

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