

Post fire contamination

Page 2 of 3

Client Sample ID: Garage
 Laboratory ID: 13670-1
 Date Sampled: 02/21/2010
 Date Analyzed: 02/24

Volume: 42. L

Detection Limits	
Quantitative List A:	0.3 ng/L
Semiquantitative List:	4 ng/L

Compound	Calculated Result	Actual Result	Comments
1,2,3-Trimethylbenzene		0.5	1,2,3-TMB ppb 0.1 MW 120 CAS 526-73-8
Naphthalene		4.7	ppb 0.9 MW 128 CAS 91-20-3
2-Methylnaphthalene		0.3	ppb 0.05 MW 142 CAS 91-57-6
Ethanol	10	5-20	Ethyl alcohol ppb 5.0 MW 46 CAS 64-17-5
2-Methylpentane	5	2-10	ppb 1.3 MW 86 CAS 107-83-5
C5-C7 Hydrocarbon	5	2-10	12.2 min
C 6	4,300	2100-8600	Hexane ppb 1,200 MW 86 CAS 110-54-3
Methylcyclopentane	9	4-18	ppb 2.7 MW 84 CAS 96-37-7
Hexanal	6	3-12	Hexaldehyde; caproic aldehyde ppb 1.3 MW 100 CAS 66-25-1
C8-C10 Hydrocarbon	4	2-8	24.1 min; a substituted cyclohexane
C 9	12	6-24	Nonane ppb 2.2 MW 128 CAS 111-84-2
C8-C10 Hydrocarbon	7	3-14	25.1 min; sum of two overlapping hydrocarbons; one is cyclic
C8-C10 Hydrocarbon	8	4-16	25.3 min
C8-C10 Hydrocarbon	6	3-12	25.6 min
Propylcyclohexane	6	3-12	ppb 1.2 MW 126 CAS 1678-92-8
C9-C11 Hydrocarbon	29	14-58	26.1 min; sum of three overlapping hydrocarbons; at least one is cyclic
C9-C11 Hydrocarbon	10	5-20	26.3 min
C9-C11 Hydrocarbon	7	3-14	26.6 min; sum of at least three overlapping hydrocarbons
C10	77	38-160	Decane ppb 13 MW 142 CAS 124-18-5
C9-C11 Hydrocarbon	10	5-20	27.1 min; at least one degree of unsaturation; possibly cyclic

A scan was made for all compounds contained in the attached Air Survey Analysis List (TB503, Rev. 14, Quantitative A and Semiquantitative). All compounds detected are listed below:

Page 1 of 3

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Total VOCs		5,000	Total volatile organic compounds calculated based on internal standard ratio; does not include C1, C2, or methanol
Paint VOCs		9%	This is an estimate of the fraction of Total VOCs represented by the sum of compounds typically associated with paints and varnishes.
Methylene Chloride		2.2	Dichloromethane ppb 0.6 MW 85 CAS 75-09-2
Benzene		1.6	Cyclohexatriene ppb 0.5 MW 78 CAS 71-43-2
Toluene		5.3	Methyl benzene ppb 1.4 MW 92 CAS 108-88-3
Tetrachloroethene		0.4	PCE ppb 0.06 MW 166 CAS 127-18-4
Ethylbenzene		0.9	ppb 0.2 MW 106 CAS 100-41-4
m,p-Xylene		2.7	m,p-Dimethylbenzene ppb 0.6 MW 106 CAS 106-42-3
o-Xylene		1.1	o-Dimethylbenzene ppb 0.2 MW 106 CAS 95-47-6
n-Propylbenzene		0.4	ppb 0.08 MW 120 CAS 103-65-1
1,3,5-Trimethylbenzene		0.5	Mesitylene; 1,3,5-TMB ppb 0.1 MW 120 CAS 108-67-8
1,2,4-Trimethylbenzene		1.8	1,2,4-TMB ppb 0.4 MW 120 CAS 95-36-3

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Compound	Calculated Result	Actual Result	Comments
C9-C11 Hydrocarbon	4	2-8	27.2 min; at least one degree of unsaturation; possibly cyclic
C9-C11 Hydrocarbon	29	14-58	27.6 min; sum of two overlapping hydrocarbons
Octanal	4	2-8	Caprylic aldehyde ppb 0.7 MW 128 CAS 124-13-0
C10-C12 Hydrocarbon	39	19-78	28.4 min; sum of at least four overlapping hydrocarbons; at least two are cyclic
C11	26	13-52	Undecane ppb 4.0 MW 156 CAS 1120-21-4
Decahydronaphthalene	10	5-20	ppb 1.7 MW 138 CAS 91-17-8
Nonanal	11	5-22	ppb 1.9 MW 142 CAS 124-19-6
Phenylmethylacetate	3	1-6	ppb 0.5 MW 150 CAS 140-11-4
Decanal	8	4-16	ppb 1.2 MW 156 CAS 112-31-2