

**EMSL Analytical**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856)858-4800 / (856)858-4571

<http://www.EMSL.com> to15lab@EMSL.com

EMSL Order #: **491900000**
 EMSL Sample #: **491900000-1**
 Customer ID: **EMSL50**
 Customer PO: **Not Available**

Attn: **Lance Romance**
EMSL Analytical -Air Toxics Lab
200 US Route 130N
Cinnaminson, NJ 08077

Phone: **800-220-3675**
 Fax: **856-786-0327**
 Date Collected: **Not Provided**
 Date Received: **Not Provided**

Project: **Example Report for Clients**Sample ID: **Barb's Bird Room**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	04/24/2018	KW	L1792.D	HD2761	250 cc	1
Dilution1	04/20/2018	KW	L1773.D	HD2761	25 cc	10
Dilution2	04/24/2018	TP	L1798.D	HD2761	25 cc	30

Vermont DEC- Waste Management and Prevention Division, IROCP Air Screening Levels at THQ 1.0

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Residential ug/m3	>	Industrial ug/m3	>
Propylene	NC	115-07-1	42.08	ND		ND	3100		13000	
Freon 12(Dichlorodifluoromethane)	NC	75-71-8	120.90	ND		ND	100		440	
Freon 114(1,2-Dichlorotetrafluoroethan	--	76-14-2	170.90	ND		ND	N.E.		N.E.	
Chloromethane	NC	74-87-3	50.49	0.67		1.4	94.0		390	
n-Butane	--	106-97-8	58.12	630	D	1500	N.E.		N.E.	
Vinyl chloride	C	75-01-4	62.50	ND		ND	0.110		1.86	
1,3-Butadiene	C	106-99-0	54.09	ND		ND	2.10		8.80	
Bromomethane	NC	74-83-9	94.94	ND		ND	5.20		22.0	
Chloroethane	NC	75-00-3	64.52	ND		ND	10000		44000	
Ethanol	--	64-17-5	46.07	2.6		4.9	N.E.		N.E.	
Bromoethene(Vinyl bromide)	C	593-60-2	106.90	ND		ND	3.10		13.0	
Freon 11(Trichlorofluoromethane)	--	75-69-4	137.40	ND		ND	N.E.		N.E.	
Isopropyl alcohol(2-Propanol)	NC	67-63-0	60.10	ND		ND	210		880	
Freon 113(1,1,2-Trichlorotrifluoroethan	NC	76-13-1	187.40	ND		ND	5200		22000	
Acetone	NC	67-64-1	58.08	4.6		11	32000		140000	
1,1-Dichloroethene	NC	75-35-4	96.94	ND		ND	210		880	
Acetonitrile	NC	75-05-8	41.00	ND		ND	63.0		260	
Tertiary butyl alcohol(TBA)	--	75-65-0	74.12	ND		ND	N.E.		N.E.	
Bromoethane(Ethyl bromide)	--	74-96-4	108.00	ND		ND	N.E.		N.E.	
3-Chloropropene(Allyl chloride)	C	107-05-1	76.53	ND		ND	1.00		4.40	
Carbon disulfide	NC	75-15-0	76.14	ND		ND	730		3100	
Methylene chloride	C	75-09-2	84.94	ND		ND	630		2600	
Acrylonitrile	C	107-13-1	53.00	ND		ND	2.10		8.80	
Methyl-tert-butyl ether(MTBE)	C	1634-04-4	88.15	ND		ND	3100		13000	
trans-1,2-Dichloroethene	--	156-60-5	96.94	ND		ND	N.E.		N.E.	
n-Hexane	NC	110-54-3	86.17	220	D	770	730		3100	
1,1-Dichloroethane	C	75-34-3	98.96	ND		ND	N.E.		N.E.	
Vinyl acetate	NC	108-05-4	86.00	1.2		4.3	210		880	
2-Butanone(MEK)	NC	78-93-3	72.10	ND		ND	5200		22000	
cis-1,2-Dichloroethene	--	156-59-2	96.94	ND		ND	N.E.		N.E.	
Ethyl acetate	NC	141-78-6	88.10	ND		ND	73.0		310	
Chloroform	C	67-66-3	119.40	ND		ND	100		430	
Tetrahydrofuran	NC	109-99-9	72.11	ND		ND	2100		8800	
1,1,1-Trichloroethane	NC	71-55-6	133.40	ND		ND	5200		22000	
Cyclohexane	NC	110-82-7	84.16	34		120	6300		26000	
2,2,4-Trimethylpentane(Isooctane)	--	540-84-1	114.20	100	D	480	N.E.		N.E.	
Carbon tetrachloride	C	56-23-5	153.80	ND		ND	100		440	
n-Heptane	NC	142-82-5	100.20	15		63	420		1800	
1,2-Dichloroethane	C	107-06-2	98.96	ND		ND	7.30		31.0	
Benzene	C	71-43-2	78.11	13		42	0.130		1.05	
Trichloroethene	C	79-01-6	131.40	ND		ND	0.200		0.700	
1,2-Dichloropropane	C	78-87-5	113.00	ND		ND	4.20		18.0	
Methyl Methacrylate	NC	80-62-6	100.12	ND		ND	730		3100	
Bromodichloromethane	C	75-27-4	163.80	ND		ND	N.E.		N.E.	

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Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Residential ug/m3	>	Industrial ug/m3	>
1,4-Dioxane	C	123-91-1	88.12	ND		ND	31.0		130	
4-Methyl-2-pentanone(MIBK)	NC	108-10-1	100.20	ND		ND	3100		13000	
cis-1,3-Dichloropropene**	C	10061-01-5	111.00	ND		ND	21.0		88.0	
Toluene	NC	108-88-3	92.14	7.7		29	5200		22000	
trans-1,3-Dichloropropene**	C	10061-02-6	111.00	ND		ND	21.0		88.0	
1,1,2-Trichloroethane	C	79-00-5	133.40	ND		ND	0.210		0.880	
2-Hexanone(MBK)	NC	591-78-6	100.10	ND		ND	31.0		130	
Tetrachloroethene	C	127-18-4	165.80	ND		ND	0.630		5.11	
Dibromochloromethane	--	124-48-1	208.30	ND		ND	N.E.		N.E.	
1,2-Dibromoethane	C	106-93-4	187.80	ND		ND	9.40		39.0	
Chlorobenzene	NC	108-90-7	112.60	ND		ND	52.0		220	
Ethylbenzene	C	100-41-4	106.20	1.0		4.5	1000		4400	
Xylene (p,m)	NC	1330-20-7	106.20	3.3		14	100		440	
Xylene (Ortho)	NC	95-47-6	106.20	1.9		8.4	100		440	
Styrene	NC	100-42-5	104.10	ND		ND	1000		4400	
Isopropylbenzene (cumene)	NC	98-82-8	120.19	ND		ND	420		1800	
Bromoform	C	75-25-2	252.80	ND		ND	N.E.		N.E.	
1,1,2,2-Tetrachloroethane	C	79-34-5	167.90	ND		ND	N.E.		N.E.	
4-Ethyltoluene	--	622-96-8	120.20	ND		ND	N.E.		N.E.	
1,3,5-Trimethylbenzene	NC	108-67-8	120.20	ND		ND	63.0		260	
2-Chlorotoluene	--	95-49-8	126.60	ND		ND	N.E.		N.E.	
1,2,4-Trimethylbenzene	NC	95-63-6	120.20	ND		ND	63.0		260	
1,3-Dichlorobenzene	--	541-73-1	147.00	ND		ND	N.E.		N.E.	
1,4-Dichlorobenzene	C	106-46-7	147.00	ND		ND	830		3500	
Benzyl chloride	C	100-44-7	126.00	ND		ND	1.00		4.40	
1,2-Dichlorobenzene	NC	95-50-1	147.00	ND		ND	210		880	
1,2,4-Trichlorobenzene	NC	120-82-1	181.50	ND		ND	2.10		8.80	
Hexachloro-1,3-butadiene	C	87-68-3	260.80	ND		ND	N.E.		N.E.	
Naphthalene	C	91-20-3	128.17	ND		ND	0.0300		0.240	

**The concentrations of each isomer should be added if multiple isomers are present and compared to the total screening level.

The > column is used to flag exceedences as marked

Exposure Limit Definitions

RSL= Regional Screening Level at Target Hazard Quotient (THQ) = 1.0

Agency Definitions

VTDEC- Vermont Department of Environmental Conservation

Reference

VTDEC, Waste Management Division/Sites Management Section, Investigation and Remediation of Contaminated Properties Procedures, July 2017

Toxicity Class (EPA Regional Screening Levels (RSL) Table, Nov 2018)

Carcinogenic (C) Exceedence

Value exceeds the theoretical risk that 1 additional case of cancer will occur in a population of 1 million than statistically expected. Thus is a theoretical risk and not an actual epidemiological one.

NonCarcinogenic (NC) Exceedence

Value exceeds the theoretical risk that 1 in a population of 100,000 will experience deliterious health effects. Thus is a theoretical risk and not an actual epidemiological one.

Screening Levels Reference

Vinyl Chloride, Benzene, Trichloroethene, Tetrachloroethene, and Naphthalene are defined by VTDEC, July,2017. All other limits are derived from EPA Regional Air Screening Levels, Nov. 2018.

Compound Exposure Definitions

NE= No Limit Established

LFC= Lowest Feasible Concentration

NS= No Screening Value

Qualifier Definitions

ND = Non Detect

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.