

**EMSL Analytical, Inc.**

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

Ohio EPA Indoor air standards due to vapor intrusion (commercial land use category)

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Non-Carcin. ug/m3	>	Carcinogenic ug/m3	>
Propylene	NC	115-07-1	42.08	ND		ND	N.E.		N.E.	
Freon 12(Dichlorodifluoromethane)	NC	75-71-8	120.90	ND		ND	N.E.		N.E.	
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	390		N.E.	
n-Butane	--	106-97-8	58.12	630	D	1500	N.E.		N.E.	
Vinyl chloride	C	75-01-4	62.50	ND		ND	440		28.0	
1,3-Butadiene	C	106-99-0	54.09	ND		ND	8.80		0.410	
Bromomethane	NC	74-83-9	94.94	ND		ND	22.0		N.E.	
Chloroethane	NC	75-00-3	64.52	ND		ND	44000		N.E.	
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	13.0		3.80	
Freon 11(Trichlorofluoromethane)	--	75-69-4	137.40	ND		ND	3100		N.E.	
Isopropyl alcohol(2-Propanol)	NC	67-63-0	60.10	ND		ND	N.E.		N.E.	
Freon 113(1,1,2-Trichlorotrifluoroethan	NC	76-13-1	187.40	ND		ND	N.E.		N.E.	
Acetone	NC	67-64-1	58.08	4.6		11	140000		N.E.	
1,1-Dichloroethene	NC	75-35-4	96.94	ND		ND	880		N.E.	
Acetonitrile	NC	75-05-8	41.00	ND		ND	260		N.E.	
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	4.40		20.0	
Carbon disulfide	NC	75-15-0	76.14	ND		ND	3100		N.E.	
Methylene chloride	C	75-09-2	84.94	ND		ND	2600		12000	
Acrylonitrile	C	107-13-1	53.00	ND		ND	8.80		1.80	
Methyl-tert-butyl ether(MTBE)	C	1634-04-4	88.15	ND		ND	13000		470	
trans-1,2-Dichloroethene	--	156-60-5	96.94	ND		ND	260		N.E.	
n-Hexane	NC	110-54-3	86.17	220	D	770	3100		N.E.	
1,1-Dichloroethane	C	75-34-3	98.96	ND		ND	N.E.		77.0	
Vinyl acetate	NC	108-05-4	86.00	1.2		4.3	880		N.E.	
2-Butanone(MEK)	NC	78-93-3	72.10	ND		ND	22000		N.E.	
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	310		N.E.	
Chloroform	C	67-66-3	119.40	ND		ND	430		5.30	
Tetrahydrofuran	NC	109-99-9	72.11	ND		ND	8800		N.E.	
1,1,1-Trichloroethane	NC	71-55-6	133.40	ND		ND	22000		N.E.	
Cyclohexane	NC	110-82-7	84.16	34		120	26000		N.E.	
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	440		20.0	
n-Heptane	NC	142-82-5	100.20	15		63	N.E.		N.E.	
1,2-Dichloroethane	C	107-06-2	98.96	ND		ND	31.0		4.70	
Benzene	C	71-43-2	78.11	13		42	130		16.0	
Trichloroethene	C	79-01-6	131.40	ND		ND	8.80		30.0	
1,2-Dichloropropane	C	78-87-5	113.00	ND		ND	18.0		12.0	
Methyl Methacrylate	NC	80-62-6	100.12	ND		ND	3100		N.E.	
Bromodichloromethane	C	75-27-4	163.80	ND		ND	N.E.		3.30	

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Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Non-Carcin. ug/m3	>	Carcinogenic ug/m3	>
1,4-Dioxane	C	123-91-1	88.12	ND		ND	N.E.		N.E.	
4-Methyl-2-pentanone(MIBK)	NC	108-10-1	100.20	ND		ND	13000		N.E.	
cis-1,3-Dichloropropene**	C	10061-01-5	111.00	ND		ND	88.0		31.0	
Toluene	NC	108-88-3	92.14	7.7		29	22000		N.E.	
trans-1,3-Dichloropropene**	C	10061-02-6	111.00	ND		ND	88.0		31.0	
1,1,2-Trichloroethane	C	79-00-5	133.40	ND		ND	N.E.		7.70	
2-Hexanone(MBK)	NC	591-78-6	100.10	ND		ND	N.E.		N.E.	
Tetrachloroethene	C	127-18-4	165.80	ND		ND	180		470	
Dibromochloromethane	--	124-48-1	208.30	ND		ND	N.E.		4.50	
1,2-Dibromoethane	C	106-93-4	187.80	ND		ND	39.0		0.200	
Chlorobenzene	NC	108-90-7	112.60	ND		ND	220		N.E.	
Ethylbenzene	C	100-41-4	106.20	1.0		4.5	4400		49.0	
Xylene (p,m)	NC	1330-20-7	106.20	3.3		14	440		N.E.	
Xylene (Ortho)	NC	95-47-6	106.20	1.9		8.4	440		N.E.	
Styrene	NC	100-42-5	104.10	ND		ND	4400		N.E.	
Isopropylbenzene (cumene)	NC	98-82-8	120.19	ND		ND	1800		N.E.	
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.		2.10	
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	N.E.		N.E.	
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	31.0		N.E.	
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	3500		11.0	
Benzyl chloride	C	100-44-7	126.00	ND		ND	4.40		2.50	
1,2-Dichlorobenzene	NC	95-50-1	147.00	ND		ND	880		N.E.	
1,2,4-Trichlorobenzene	NC	120-82-1	181.50	ND		ND	8.80		N.E.	
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	13.0		3.60	

**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

RBC= Risk Based Concentration

Agency Definitions

Ohio Environmental Protection Agency

Reference

Ohio Voluntary Action Program(VAP) Rules, May 2016

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.

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.