

**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

NJDEP Vapor Intrusion Soil Gas Screening Levels

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Residential ug/m3	>	Non-Res. 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	5200		22000	
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	4700		20000	
n-Butane	--	106-97-8	58.12	630	D	1500	N.E.		N.E.	
Vinyl chloride	C	75-01-4	62.50	ND		ND	13.0		140	
1,3-Butadiene	C	106-99-0	54.09	ND		ND	11.0		20.0	
Bromomethane	NC	74-83-9	94.94	ND		ND	260		1100	
Chloroethane	NC	75-00-3	64.52	ND		ND	520000		2200000	
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	22.0		22.0	
Freon 11(Trichlorofluoromethane)	--	75-69-4	137.40	ND		ND	36000		150000	
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	1600000		6600000	
Acetone	NC	67-64-1	58.08	4.6		11	1600000		6800000	
1,1-Dichloroethene	NC	75-35-4	96.94	ND		ND	10000		44000	
Acetonitrile	NC	75-05-8	41.00	ND		ND	N.E.		N.E.	
Tertiary butyl alcohol(TBA)	--	75-65-0	74.12	ND		ND	3300		4600	
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	20.0		100	
Carbon disulfide	NC	75-15-0	76.14	ND		ND	36000		150000	
Methylene chloride	C	75-09-2	84.94	ND		ND	4800		61000	
Acrylonitrile	C	107-13-1	53.00	ND		ND	N.E.		N.E.	
Methyl-tert-butyl ether(MTBE)	C	1634-04-4	88.15	ND		ND	470		2400	
trans-1,2-Dichloroethene	--	156-60-5	96.94	ND		ND	3100		13000	
n-Hexane	NC	110-54-3	86.17	220	D	770	36000		150000	
1,1-Dichloroethane	C	75-34-3	98.96	ND		ND	76.0		380	
Vinyl acetate	NC	108-05-4	86.00	1.2		4.3	N.E.		N.E.	
2-Butanone(MEK)	NC	78-93-3	72.10	ND		ND	260000		1100000	
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	N.E.		N.E.	
Chloroform	C	67-66-3	119.40	ND		ND	24.0		27.0	
Tetrahydrofuran	NC	109-99-9	72.11	ND		ND	N.E.		N.E.	
1,1,1-Trichloroethane	NC	71-55-6	133.40	ND		ND	260000		1100000	
Cyclohexane	NC	110-82-7	84.16	34		120	310000		1300000	
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	31.0		100	
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	20.0		24.0	
Benzene	C	71-43-2	78.11	13		42	16.0		79.0	
Trichloroethene	C	79-01-6	131.40	ND		ND	27.0		150	
1,2-Dichloropropane	C	78-87-5	113.00	ND		ND	23.0		61.0	
Methyl Methacrylate	NC	80-62-6	100.12	ND		ND	N.E.		N.E.	
Bromodichloromethane	C	75-27-4	163.80	ND		ND	34.0		34.0	

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Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Residential ug/m3	>	Non-Res. 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	160000		660000	
cis-1,3-Dichloropropene**	C	10061-01-5	111.00	ND		ND	30.0		150	
Toluene	NC	108-88-3	92.14	7.7		29	260000		1100000	
trans-1,3-Dichloropropene**	C	10061-02-6	111.00	ND		ND	30.0		150	
1,1,2-Trichloroethane	C	79-00-5	133.40	ND		ND	27.0		38.0	
2-Hexanone(MBK)	NC	591-78-6	100.10	ND		ND	N.E.		N.E.	
Tetrachloroethene	C	127-18-4	165.80	ND		ND	470		2400	
Dibromochloromethane	--	124-48-1	208.30	ND		ND	43.0		43.0	
1,2-Dibromoethane	C	106-93-4	187.80	ND		ND	38.0		38.0	
Chlorobenzene	NC	108-90-7	112.60	ND		ND	2600		11000	
Ethylbenzene	C	100-41-4	106.20	1.0		4.5	49.0		250	
Xylene (p,m)	NC	1330-20-7	106.20	3.3		14	5200		22000	
Xylene (Ortho)	NC	95-47-6	106.20	1.9		8.4	5200		22000	
Styrene	NC	100-42-5	104.10	ND		ND	52000		220000	
Isopropylbenzene (cumene)	NC	98-82-8	120.19	ND		ND	N.E.		N.E.	
Bromoform	C	75-25-2	252.80	ND		ND	110		560	
1,1,2,2-Tetrachloroethane	C	79-34-5	167.90	ND		ND	34.0		34.0	
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	N.E.		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	30.0		56.0	
Benzyl chloride	C	100-44-7	126.00	ND		ND	N.E.		N.E.	
1,2-Dichlorobenzene	NC	95-50-1	147.00	ND		ND	10000		44000	
1,2,4-Trichlorobenzene	NC	120-82-1	181.50	ND		ND	100		440	
Hexachloro-1,3-butadiene	C	87-68-3	260.80	ND		ND	53.0		53.0	
Naphthalene	C	91-20-3	128.17	ND		ND	26.0		26.0	

**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

NJDEP= New Jersey Department of Environmental Protection

Reference

NJDEP Site Remediation Program, Vapor Intrusion Technical Guidance, Jan 2018

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.