

Commonwealth of Virginia
Division of Consolidated Laboratory Services

600 North 5th St.
Richmond, Virginia 23219
804-648-4480



REPORT OF ANALYSIS

Report Date: 01/06/2021
DCLS LIMS #: E201207019

Mail To

DEQ-OFFICE OF AIR PROGRAMS
4949-C COX RD
GLEN ALLEN, VA 23060

Sample Information

DATE RECEIVED	12/30/2020 15:01	PROGRAM CODE	AM
SAMPLING DATE	12/28/2020 20:52	STATION ID	SWRO
COLLECTED BY	JAMES R. STANLEY	CONTAINER ID	S148
SAMPLE MATRIX	Air	REGION CODE	404
ORDERED TEST	TO15	STATION LOCATION	NEAR 2125 SHAKESVILLE RD. AND NEAR HIGHLANDS JUVENILE DETENTION CENTER.
REPORT BDL	Y	LOCATION	NEAR 2125 SHAKESVILLE RD. AND NEAR HIGHLANDS JUVENILE DETENTION CENTER.
		SAMPLE ID	BRISTOL,VA

Test Results

APPROVED BY: GJOHNSON, Analyst DATE APPROVED: 01/06/2021

METHOD	PARAMETER	RESULT	AQS	ANALYSIS DATE
EPA TO15	Non-Target Compounds	Found		12/31/2020
	Identified: Propane, Isobutane, 2-methyl-1-propene, Butane, 2-Butene, Ethanol, 2-methyl-butane, Furan, Isopropyl Alcohol, Pentane, Dimethyl Sulfide, Cyclopentene, 2-methyl-pentane, 2-Butanone, 4-methyl-1-Hexene, 2-methyl-Furan, 2,3-dimethyl-cyclopentene, 3,5-Dimethylcyclopentene, 4,4-dimethyl-cyclopentene, 3-methyl-3-heptene, 2-methyl-3,4-Hexadiene, 1-ethyl-4-methyl-cyclohexane, cyclohexane-propanol, Octane, 4-methyl-2-heptene, Nonane, Alpha Pinene, Decane, Limonene, Undecane, methyl-cyclohexane,			
	Propylene	< 0.125 ppbV	43205	12/31/2020
	Dichlorodifluoromethane	0.51 ppbV	43823	12/31/2020
	Chloromethane	0.49 ppbV	43801	12/31/2020
	PARAMETER QUALIFIER: CCV recovery exceeded the method acceptance limit. Analyte could be biased high.			
	Freon 114	< 0.125 ppbV	43208	12/31/2020
	Vinyl Chloride	< 0.125 ppbV	43860	12/31/2020
	1,3-Butadiene	< 0.125 ppbV	43218	12/31/2020
	Bromomethane	< 0.125 ppbV	43819	12/31/2020
	Ethyl Chloride	0.10 ppbV	43812	12/31/2020
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	Acetonitrile	< 0.125 ppbV	43702	12/31/2020
	Acrolein	< 0.250 ppbV	43505	12/31/2020
	PARAMETER QUALIFIER: CCV recovery was less than the method acceptance limit. Analyte could be biased low.			
	Freon 11	0.34 ppbV	43811	12/31/2020
	Acrylonitrile	< 0.125 ppbV	43704	12/31/2020
	1,1-Dichloroethene	< 0.125 ppbV	43826	12/31/2020
	Methylene Chloride	0.30 ppbV	43802	12/31/2020

Explanation of Terms and Disclaimers

Test Results meet all requirements of TNI 2009. Non-TNI 2009 accredited analyses noted by ^^The results included on this report relate only to this specific sample and not to other samples tested from this sampling location.

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<u>EPA TO15</u>				
	1,1,2-Trichlorotrifluoroethane	0.07 ppbV	43207	12/31/2020
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	trans-1,2-Dichloroethene	< 0.125 ppbV	43838	12/31/2020
	1,1-Dichloroethane	0.02 ppbV	43813	12/31/2020
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	MTBE	0.02 ppbV	43372	12/31/2020
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	cis-1,2-Dichloroethene	0.03 ppbV	43839	12/31/2020
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	Hexane	0.56 ppbV	43231	12/31/2020
	Trichloromethane	0.03 ppbV	43803	12/31/2020
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	Ethyl Acetate	< 0.125 ppbV	43209	12/31/2020
	Tetrahydrofuran	0.83 ppbV	46401	12/31/2020
	1,2-Dichloroethane	0.05 ppbV	43815	12/31/2020
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	1,1,1-Trichloroethane	0.03 ppbV	43814	12/31/2020
	PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.			
	Benzene	44.80 ppbV	45201	12/31/2020
	Carbon Tetrachloride	0.07 ppbV	43804	12/31/2020
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	Cyclohexane	0.27 ppbV	43248	12/31/2020
	1,2-Dichloropropane	0.02 ppbV	43829	12/31/2020
	PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.			
	Bromodichloromethane	< 0.125 ppbV	43828	12/31/2020
	Trichloroethylene	0.10 ppbV	43824	12/31/2020
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	Methyl Methacrylate	< 0.125 ppbV	43441	12/31/2020
	Heptane	0.42 ppbV	43232	12/31/2020
	cis-1,3-Dichloropropene	< 0.125 ppbV	43831	12/31/2020
	trans-1,3-Dichloro-1-propene	< 0.125 ppbV	43830	12/31/2020

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<u>EPA TO15</u>				
	1,1,2-Trichloroethane	< 0.125 ppbV	43820	12/31/2020
	Toluene	3.36 ppbV	45202	12/31/2020
	Dibromochloromethane	< 0.125 ppbV	43832	12/31/2020
	1,2-Dibromoethane	< 0.125 ppbV	43843	12/31/2020
	Tetrachloroethylene	0.06 ppbV	43817	12/31/2020
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	Chlorobenzene	0.05 ppbV	45801	12/31/2020
	PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.			
	Ethylbenzene	3.39 ppbV	45203	12/31/2020
	m,p-Xylenes	2.38 ppbV	45109	12/31/2020
	Bromoform	< 0.125 ppbV	43806	12/31/2020
	Styrene	0.36 ppbV	45220	12/31/2020
	1,1,2,2-Tetrachloroethane	< 0.125 ppbV	43818	12/31/2020
	o-Xylene	0.84 ppbV	45204	12/31/2020
	4-Ethyltoluene	0.58 ppbV	45213	12/31/2020
	1,3,5-Trimethylbenzene	0.36 ppbV	45207	12/31/2020
	1,2,4-Trimethylbenzene	1.07 ppbV	45208	12/31/2020
	1,3-Dichlorobenzene	< 0.125 ppbV	45806	12/31/2020
	1,4-Dichlorobenzene	0.08 ppbV	45807	12/31/2020
	PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.			
	1,2-Dichlorobenzene	< 0.125 ppbV	45805	12/31/2020
	1,2,4-Trichlorobenzene	< 0.250 ppbV	45810	12/31/2020
	PARAMETER QUALIFIER: CCV recovery was less than the method acceptance limit. Analyte could be biased low.			
	Hexachloro-1,3-Butadiene	< 0.125 ppbV	43844	12/31/2020

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