



2025 YEARLY WATER QUALITY ANALYSIS
CITY OF LANCASTER
CHEMISTRY & MICROBIOLOGY LABORATORIES

Lancaster City Water is a public utility owned and operated by the City of Lancaster, PA.
PWS ID# 7360058



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PA Department of Environmental Protection - Primary Contaminant List

Inorganic

Analysis	Conestoga Plant		Susquehanna Plant		PA DEP MCL	
Antimony	ND	mg/L	ND	mg/L	0.006	mg/L
Arsenic	ND	mg/L	ND	mg/L	0.01	mg/L
Barium	0.05	mg/L	0.023	mg/L	2	mg/L
Bromide*	ND	mg/L	ND	mg/L	NS	---
Beryllium	ND	mg/L	ND	mg/L	0.004	mg/L
Cadmium	ND	mg/L	ND	mg/L	0.005	mg/L
Chromium	ND	mg/L	ND	mg/L	0.1	mg/L
Copper	0.235	mg/L	0.235	mg/L	1.3	mg/L
Cyanide, Free	ND	mg/L	ND	mg/L	0.2	mg/L
Fluoride	0.75	mg/L	0.56	mg/L	2.0	mg/L
Lead**	0.007	mg/L	0.007	mg/L	0.015	mg/L
Mercury	ND	mg/L	ND	mg/L	0.002	mg/L
Nitrate	ND	mg/L	0.001	mg/L	0.1	mg/L
Selenium	6.6	mg/L	ND	mg/L	10	mg/L
Thallium	ND	mg/L	ND	mg/L	0.05	mg/L

* Testing for presence of Marcellus shale "frack" water in Susquehanna Treatment Plant raw water.

** Lead Levels from High Risk Homes in the Distribution System: 90th Percentile = 0.007 mg/L. Tested in 2025.

Chlorine

Analysis	Conestoga Plant		Susquehanna Plant		PA DEP MCL	
Chlorine, Free Residual	1.2	mg/L	1.1	mg/L	4.0	mg/L

Turbidity

Analysis	Conestoga Plant		Susquehanna Plant		PA DEP MCL	
Turbidity, Combined Effluent	0.01	NTU	0.01	NTU	0.15	NTU

Microbiological

Analysis	Result	PA DEP TT
Total Coliform*	0.00%	<5% Positives/Month
Escherichia Coli*	0	0 Positives/Month

Trihalomethanes

Analysis	Result		PA DEP TT	
Trihalomethanes, Total* (Highest 12 Month Location Running Annual Average)	75.2	µg/L	80	µg/L

Tic Acids

Analysis	Result		PA DEP TT	
Haloacetic Acids, Total* (Highest 12 Month Location Running Annual Average)	56	µg/L	60	µg/L

* Results are from samples taken in the distribution system

Secondary

Analysis	Conestoga Plant		Susquehanna Plant		PA DEP MCL	
Aluminum, Total	0.05	mg/L	0.04	mg/L	0.05-0.2	mg/L
Chloride	31.1	mg/L	17.2	mg/L	250	mg/L
Color	0.4	CU	0.6	CU	15	CU
Iron, Total	0.01	mg/L	0.01	mg/L	0.3	mg/L
Manganese, Total	0.026	mg/L	0.017	mg/L	0.05	mg/L
pH	7.5	SU	7.5	SU	6.5-8.5	SU
Sulfate	46	mg/L	40	mg/L	250	mg/L

Other Tests

Analysis	Conestoga Plant		Susquehanna Plant		PA DEP MCL	
Alkalinity	153	mg/L	67	mg/L	NS	mg/L
HARDNESS, milligrams/liter	235	mg/L	107	mg/L	NS	mg/L
HARDNESS, grains/gallon	16	GPG	8	GPG	NS	GPG
Organic Carbon, Total	2.5	mg/L	1.9	mg/L	NS	mg/L
Phosphate, Ortho	0.22	mg/L	0.21	mg/L	0.13-0.33	mg/L
Specific Conductance	645	μS/cm	335	μS/cm	NS	μS/cm

Volatile Organic Chemicals

Analysis	Conestoga Plant		Susquehanna Plant		PA DEP MCL	
Benzene	ND	mg/L	ND	mg/L	0.005	mg/L
Carbon Tetrachloride	ND	mg/L	ND	mg/L	0.005	mg/L
Chlorobenzene	ND	mg/L	ND	mg/L	0.1	mg/L
1,2-Dichlorobenzene	ND	mg/L	ND	mg/L	0.6	mg/L
1,4 - Dichlorobenzene	ND	mg/L	ND	mg/L	0.075	mg/L
1,2-Dichloroethane	ND	mg/L	ND	mg/L	0.005	mg/L
1,1-Dichloroethene	ND	mg/L	ND	mg/L	0.007	mg/L
cis-1,2,-Dichloroethylene	ND	mg/L	ND	mg/L	0.07	mg/L
trans-1,2,-Dichloroethene	ND	mg/L	ND	mg/L	0.1	mg/L
1,2-Dichloropropane	ND	mg/L	ND	mg/L	0.005	mg/L
Ethylbenzene	ND	mg/L	ND	mg/L	0.7	mg/L
Methylene Chloride	ND	mg/L	ND	mg/L	0.005	mg/L
Styrene	ND	mg/L	ND	mg/L	0.1	mg/L
Tetrachloroethene	ND	mg/L	ND	mg/L	0.005	mg/L
Toluene	ND	mg/L	ND	mg/L	1	mg/L
1,2,4-Trichlorobenzene	ND	mg/L	ND	mg/L	0.07	mg/L
1,1,1-Trichloroethane	ND	mg/L	ND	mg/L	0.2	mg/L
1,1,2-Trichloroethane	ND	mg/L	ND	mg/L	0.005	mg/L
Trichloroethene	ND	mg/L	ND	mg/L	0.005	mg/L
Vinyl Chloride	ND	mg/L	ND	mg/L	0.002	mg/L
Xylenes (Total)	ND	mg/L	ND	mg/L	10	mg/L

Synthetic Organic Chemicals

Analysis	Conestoga Plant		Susquehanna Plant		PA DEP MCL	
Alachlor	ND	mg/L	ND	mg/L	0.002	mg/L
Aldicarb	ND	mg/L	ND	mg/L	0.003	mg/L
Aldicarb Sulfoxide	ND	mg/L	ND	mg/L	0.004	mg/L
Aldicarb Sulfone	ND	mg/L	ND	mg/L	0.002	mg/L
Atrazine	ND	mg/L	ND	mg/L	0.003	mg/L
Benzo(a)pyrene	ND	mg/L	ND	mg/L	0.0002	mg/L
Carbaryl	ND	mg/L	ND	mg/L	NS	mg/L
Carbofuran	ND	mg/L	ND	mg/L	0.04	mg/L
Chlordane	ND	mg/L	ND	mg/L	0.002	mg/L
Dalapon	ND	mg/L	ND	mg/L	0.2	mg/L
Dibromochloropropane	ND	mg/L	ND	mg/L	0.0002	mg/L
Bis(2-Ethylhexyl)Adiphate	ND	mg/L	ND	mg/L	0.4	mg/L
Bis(2-Ethylhexyl)Phthalate	ND	mg/L	ND	mg/L	0.006	mg/L
Dicamba	ND	mg/L	ND	mg/L	0.2	mg/L
Dinoseb	ND	mg/L	ND	mg/L	0.007	mg/L
Diquat	ND	mg/L	ND	mg/L	0.02	mg/L
Endothall	ND	mg/L	ND	mg/L	0.1	mg/L
Endrin	ND	mg/L	ND	mg/L	0.0002	mg/L
Ethylene Dibromide (Edb)	ND	mg/L	ND	mg/L	0.00005	mg/L
Glycophosphate	ND	mg/L	ND	mg/L	0.7	mg/L
Heptachlor	ND	mg/L	ND	mg/L	0.0004	mg/L
Heptachlor Epoxide	ND	mg/L	ND	mg/L	0.0002	mg/L
Hexachlorocyclopentadiene	ND	mg/L	ND	mg/L	0.05	mg/L
3-Hydroxycarbofuran	ND	mg/L	ND	mg/L	NS	mg/L
Lindane	ND	mg/L	ND	mg/L	0.0002	mg/L
Methomyl	ND	mg/L	ND	mg/L	NS	mg/L
Methoxychlor	ND	mg/L	ND	mg/L	0.04	mg/L
Metolachlor	ND	mg/L	ND	mg/L	0.2	mg/L
Metribuxin	ND	mg/L	ND	mg/L	0.2	mg/L
Oxamyl (Vydate)	ND	mg/L	ND	mg/L	0.2	mg/L

(Table continued Next Page)

Synthetic Organic Chemicals (Continued)

Analysis	Conestoga Plant		Susquehanna Plant		PA DEP MCL	
Pentachlorophenol	ND	mg/L	ND	mg/L	0.001	mg/L
Picloram	ND	mg/L	ND	mg/L	0.5	mg/L
Propachlor	ND	mg/L	ND	mg/L	NS	mg/L
Simazine	ND	mg/L	ND	mg/L	0.004	mg/L
2,4-D	ND	mg/L	ND	mg/L	0.07	mg/L
2,4,5-Tp (Silvex)	ND	mg/L	ND	mg/L	0.05	mg/L
2,3,7,8-Tcdd (Dioxin)	ND	mg/L	ND	mg/L	0.00000003	mg/L

Per- and Polyfluorinated Substances

Analysis	Conestoga Plant		Susquehanna Plant		PA DEP MCL	
PFOS	3.49	ng/L	<1.71	ng/L	18	ng/L
PFOA	13.4	ng/L	<1.78	ng/L	14	ng/L

Abbreviations

°C	Degrees Centigrade
Cm	Centimeter
CU	Color Unit
HPC	Heterotrophic Plate Count
Mg/L	Milligrams/Liter
mL	Milliliter
pCi/L	Picocuries/Liter
ND	Not Detected
NS	No Standard
NT	No Test
NTU	Nephelometric Turbidity Unit
TT	Treatment Technique Requirement
WL	Working Level
<	Less Than
MF/L	Million Fibers Per Liter, Less Than 10 Micrometers Long (Asbestos)
µS/cm	Micro Seimens Per Centimeter
PA DEP	Pennsylvania Department Of Environmental Protection
MCL	Maximum Contaminant Level
SMCL	Secondary Maximum Contaminant Level, Not Legally Enforceable



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