

Patoka Lake Regional Water District

WATER QUALITY DATA 2024

Inorganic Contaminants(2024)

	MCL mg/L	D.L. mg/L	RESULT mg/L
Antimony	0.006	0.001	BDL
Arsenic	0.01	0.001	BDL
Barium	2	0.002	0.024
Beryllium	0.004	0.0003	BDL
Cadmium	0.005	0.0005	BDL
Chromium	1	0.0009	BDL
Fluoride	4	0.05	0.6
Mercury	0.002	0.0001	BDL
Nickel	0.1	0.001	BDL
Nitrite as N	1	0.01	BDL
Nitrate Nitrite as N	10	0.1	BDL
Nitrate as N	10	0.1	BDL
Selenium	0.05	0.002	BDL
Sodium	No MCL	0.1	2.8
Thallium	0.002	0.0003	BDL

Definitions

"MCL"	means maximum contaminant level
"BDL"	means below detectable limit
"pCi/L"	means picocuries per liter
"D.L."	means detectable limit
"mg/L"	means part per million or milligrams per liter
"µg/L"	means part per billion or micrograms per liter
"ng/L"	means part per trillion or nanograms per liter
"pg/L"	means part per quadrillion or picograms per liter
"NTU"	Means nephelometric turbidity unit
"µg/L"	means part per billion or micrograms per liter
"U.C."	means unregulated contaminates
"AL"	Means Action Level
"MDC"	means Minimum Detection Concentration (radioactivity)

Radioactive Contaminants(2023)

	MDC	RESULT
Radium 226-228 2023	0.77	BDL pCi/L
Gross Alpha 2023	1.64	BDL pCi/L

Volatile Organic Contaminants(2024)

	MCL ua/L	D.L. ua/L	RESULT ua/L
Benzene	5	0.5	BDL
Carbon Tetrachloride	5	0.5	BDL
Chlorobenzene	100	0.5	BDL
1,2-Dichlorobenzene	600	0.5	BDL
1,4-Dichlorobenzene	75	0.5	BDL
1,2-Dichloroethane	5	0.5	BDL
1,1-Dichloroethene	7	0.5	BDL
cis-1,2 Dichloroethylene	70	0.5	BDL
trans-1,2-Dichloroethylene	100	0.5	BDL
Dichloromethane	5	0.5	BDL
1,2-Dichloropropane	5	0.5	BDL
Ethylbenzene	700	0.5	BDL
Styrene	100	0.5	BDL
Tetrachloroethene	5	0.5	BDL
Toluene	1000	0.5	BDL
1,2,4-Trichlorobenzene	70	0.5	BDL
1,1,1-Trichloroethane	200	0.5	BDL
1,1,2-Trichloroethane	5	0.5	BDL
Trichloroethylene	5	0.5	BDL
Vinyl Chloride	2	0.2	BDL
Total Xylenes	10000	0.5	BDL

Synthetic Organic Contaminants(2024)

	MCL ua/L	D.L. ua/L	RESULT ua/L
Alachlor(Lasso) 2024	2	0.098	BDL
Atrazine 2024	3	0.098	0.18
Benzo(a)pyrene 2024	0.2	0.02	BDL
Carbofuran 2024	40	0.9	BDL
Chlordane(technical) 2024	2	0.1	BDL
2,4-D 2024	70	0.1	BDL
Dalapon 2024	200	1	BDL
DBCP 2024	0.2	0.01	BDL
Dinoseb 2024	7	0.1	BDL
2,3,7,8-TCDD(Dioxin) 2024	30 pg/L	5.0 pg/L	BDL
Diquat 2024	20	0.4	BDL
Di(2-ethylhexyl)adipate 2024	400	0.6	BDL
Di(2-ethylhexyl)phthalate 2024	6	0.6	BDL
Endothall 2024	100	9	BDL
Endrin 2024	2	0.01	BDL
Ethylene Dibromide(EDB) 2024	50 ng/L	10 ng/L	BDL
Glyphosate (Round-Up) 2024	700	6	BDL
Heptachlor 2024	0.4	0.04	BDL
Heptachlor Epoxide 2024	0.2	0.02	BDL
Hexachlorobenzene 2024	1	0.1	BDL
Hexachlorocyclopentadiene 2024	50	0.1	BDL
gamma-BHC Lindane 2024	0.2	0.02	BDL
Methoxychlor 2024	40	0.1	BDL
Oxamyl(Vydate) 2024	200	1	BDL
Pentachlorophenol 2024	1	0.04	BDL
Picloram(Tordon) 2024	500	0.1	BDL
Simazine 2024	4	0.07	BDL
2,4,5-TP(Silvex) 2024	50	0.1	BDL
Toxaphene 2024	3	1	BDL
1,2-Dibromoethane 2024	0.05	0.011	BDL
1,2-Dibromo-3-Chloropropan 2024	0.2	0.011	BDL

Lead and Copper

	2023	AL	RESULT
Lead 90th percentil	2023	15 g/L	6.7
Copper 90th percen	2023	1.3 mg/L	.423 mg/L

Highest Turbidity Measurement 2024

	% In compliance	highest measurement	month of occurrence
Treatment Plant 1	100	0.21	November
Treatment Plant 2	100	0.24	July

TOC	Collection Date	Highest Value	2024 Range	Unit
	8/11/2024	4.49	2.04-4.49	mg/L

ed Alkyl Substances and Perfluorinated Alkyl Acids
Tested in 2023 and 2024 all results below detection limits

Parameter	Result	Detection Limit	Unit
Perfluorobutanoic acid (PFBA)	BDL	0.0049	µg/l
Perfluoropentanoic acid (PFPeA)	BDL	0.0029	µg/l
Perfluorohexanoic acid (PFHxA)	BDL	0.0029	µg/l
Perfluoroheptanoic acid (PFHpA)	BDL	0.0029	µg/l
Perfluorooctanoic acid (PFOA)	BDL	0.0039	µg/l
Perfluorononanoic acid (PFNA)	BDL	0.0039	µg/l
Perfluorodecanoic acid (PFDA)	BDL	0.0029	µg/l
Perfluoroundecanoic acid (PFUnA)	BDL	0.002	µg/l
Perfluorododecanoic acid (PFDoA)	BDL	0.0029	µg/l
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	BDL	0.0029	µg/l
Perfluorobutanesulfonic acid (PFBS)	BDL	0.0029	µg/l
Perfluorohexanesulfonic acid (PFHxS)	BDL	0.0029	µg/l
Perfluoroheptanesulfonic acid (PFHpS)	BDL	0.0029	µg/l
Perfluorooctanesulfonic acid (PFOS)	BDL	0.0039	µg/l
Perfluoropentanesulfonic acid (PFPeS)	BDL	0.0039	µg/l
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	BDL	0.0049	µg/l
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	BDL	0.002	µg/l
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	BDL	0.0049	µg/l
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	BDL	0.0029	µg/l
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	BDL	0.0049	µg/l
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	BDL	0.0049	µg/l
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	BDL	0.0196	µg/l
Perfluoro-3-methoxypropanoic acid (PFMPA)	BDL	0.0039	µg/l
Perfluoro-4-methoxybutanoic acid (PFMBA)	BDL	0.0029	µg/l
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	BDL	0.0059	µg/l
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	BDL	0.0047	µg/l
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	BDL	0.0056	µg/l
Perfluorotetradecanoic acid (PFTA)	BDL	0.0075	µg/l
Perfluorotridecanoic acid (PFTrDA)	BDL	0.0066	µg/l
Lithium	BDL	9	µg/l

Disinfection Byproducts	Sample Point	Period	Highest LRAA	Range	Unit	MCL	MCLG	Source
Total Haloacetic acids (HAA5)	Finch Newton Valve Pit	2023-2024	35	20.7-47.4	ppb		60	0 Drinking Water Disinfection
Total Haloacetic acids (HAA5)	Lynnville Valve Pit	2023-2024	36	22.2-46.8	ppb		60	0 Drinking Water Disinfection
Total Haloacetic acids (HAA5)	Oakland City Valve Pit	2023-2024	39	19.6-57.8	ppb		60	0 Drinking Water Disinfection
Total Haloacetic acids (HAA5)	Paoli Valve Pit	2023-2024	38	18.6-61	ppb		60	0 Drinking Water Disinfection
TTHM	Finch Newton Valve Pit	2023-2024	39	19.4-61.3	ppb		80	0 Drinking Water Disinfection
TTHM	Lynnville Valve Pit	2023-2024	39	17.9-65.8	ppb		80	0 Drinking Water Disinfection
TTHM	Oakland City Valve Pit	2023-2024	42	20.6-68.8	ppb		80	0 Drinking Water Disinfection
TTHM	Paoli Valve Pit	2023-2024	38	16.7-59.3	ppb		80	0 Drinking Water Disinfection