

# SOLDIER CANYON WATER TREATMENT AUTHORITY

(East Larimer County Water District; Fort Collins/Loveland Water District; North Weld County Water District)

## WATER QUALITY REPORT

**4TH QUARTER 2024**

ANALYSIS PARAMETER <small>Monitored at SCFP (not a certified lab)</small>	Report	PLANT INFLUENT			PLANT EFFLUENT			MCL *SMCL
	Values	MIN	MAX	AVG	MIN	MAX	AVG	
ALKALINITY	mg/l	23.0	31.0	28.2	36.0	57.0	44.9	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.032	0.054	0.042	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	23.0	27.0	24.4	23.0	26.0	24.0	N/A
CHLORINE	mg/l	N/A	N/A	N/A	1.22	1.52	1.31	4.0 MRDL
CHLORITE	mg/l	N/A	N/A	N/A	0.27	0.67	0.42	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	0.00	0.07	0.01	0.8
CONDUCTIVITY	µs/cm	73.3	80.6	77.2	99.5	145.7	118.9	N/A
DISSOLVED OXYGEN	mg/l	0.8	9.5	4.9	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.21	0.25	0.23	0.63	0.77	0.69	4.0/*2.0
HARDNESS (TOTAL)	mg/l	29.0	31.0	30.4	28.0	31.0	29.5	N/A
IRON	mg/l	0.03	0.24	0.11	0.00	0.01	0.01	*0.3
MANGANESE	mg/l	0.015	0.209	0.100	0.001	0.021	0.007	*0.05
pH	VALUE	6.75	7.69	7.28	8.15	8.39	8.28	*6.5-8.5
TEMPERATURE	°C	6.0	13.3	10.1	6.2	12.8	10.3	N/A
TRUE COLOR	APHA	8.0	13.0	9.4	0.0	2.0	0.9	*15.0
TURBIDITY	NTU	1.23	3.42	1.93	0.013	0.036	0.016	**<0.3 TT

INORGANIC CONTAMINANTS ANALYSES (CA) - (EFFLUENT ENTRY POINT AT SCFP)			RESULTS	DATE	MCL
ANTIMONY	mg/l		BDL	8/7/2024	0.006
ARSENIC	mg/l		BDL	8/7/2024	0.010
BARIUM	mg/l		0.014	8/7/2024	2.000
BERYLLIUM	mg/l		BDL	8/7/2024	0.004
CADMIUM	mg/l		BDL	8/7/2024	0.005
CHROMIUM	mg/l		BDL	8/7/2024	0.1
FLUORIDE	mg/l		0.70	8/7/2024	4.0
MERCURY	mg/l		BDL	8/7/2024	0.002
NICKEL	mg/l		BDL	8/7/2024	N/A
SELENIUM	mg/l		BDL	8/7/2024	0.050
SODIUM	mg/l		11.1	8/7/2024	N/A
THALLIUM	mg/l		BDL	8/7/2024	0.002

NITRATE AND/OR NITRITE AS NITROGEN (CA) - (EFFLUENT ENTRY POINT AT SCFP)			RESULTS	DATE	MCL
NITRATE	mg/l		2.000	7/15/2024	10.000
NITRITE	mg/l		BDL	7/15/2024	1.000
NITRATE	mg/l		BDL	8/7/2024	10.000
NITRATE	mg/l		0.200	10/9/2024	10.000

TOTAL ORGANIC CARBON (CA) (SCWQL) - (SCFP INFLUENT AND EFFLUENT)			INFLUENT	EFFLUENT	TT RATIO	DATE	MCL - **TT
TOTAL ORGANIC CARBON - TOC	mg/L		3.8	2.0	1.35	10/9/2024	RAA - $\geq 1.0$
			3.8	2.0	1.35	10/9/2024	RAA - $\geq 1.0$
			3.39	1.84	1.31	11/6/2024	RAA - $\geq 1.0$
			3.32	1.87	1.25	12/11/2024	RAA - $\geq 1.0$

ALKALINITY (CA) - (SCFP INFLUENT)			INFLUENT	DATE	MCL
ALKALINITY (CA) - (SCFP INFLUENT)	mg/l		28.8	10/9/2024	N/A
			28.8	10/9/2024	N/A
			29.0	11/6/2024	N/A
			25.0	12/11/2024	N/A

RADIONUCLIDE ANALYSES (SGS) - (EFFLUENT ENTRY POINT AT SCFP)			RESULTS	DATE	MCL
GROSS ALPHA	pCi/L		ND	9/8/2021	15
URANIUM	ppb		<0.00020	9/8/2021	30
RADIUM 226 + 228	pCi/L		ND	9/8/2021	5
GROSS BETA	pCi/L		ND	9/8/2021	50

ORGANIC CHEMICAL ANALYSES - VOC's (CA) - (EFFLUENT ENTRY POINT AT SCFP)			RESULTS	DATE	MCL
1,1,1-TRICHLOROETHANE	µg/L		BDL	7/15/2024	200
1,1,2-TRICHLOROETHANE	µg/L		BDL	7/15/2024	5
1,1-DICHLOROETHYLENE	µg/L		BDL	7/15/2024	7
1,2,4-TRICHLOROBENZENE	µg/L		BDL	7/15/2024	70
1,2-DICHLOROETHANE	µg/L		BDL	7/15/2024	5
1,2-DICHLOROPROPANE	µg/L		BDL	7/15/2024	5
BENZENE	µg/L		BDL	7/15/2024	5
CARBON TETRACHLORIDE	µg/L		BDL	7/15/2024	5
CHLOROBENZENE	µg/L		BDL	7/15/2024	100
cis-1,2-DICHLOROETHYLENE	µg/L		BDL	7/15/2024	70
DICHLOROMETHANE	µg/L		BDL	7/15/2024	5
ETHYLBENZENE	µg/L		BDL	7/15/2024	700
o-DICHLOROBENZENE	µg/L		BDL	7/15/2024	600
para-DICHLOROBENZENE	µg/L		BDL	7/15/2024	75
STYRENE	µg/L		BDL	7/15/2024	100
TETRACHLOROETHYLENE	µg/L		BDL	7/15/2024	5
TOLUENE	µg/L		BDL	7/15/2024	1000
trans-1,2-DICHLOROETHYLENE	µg/L		BDL	7/15/2024	100
TRICHLOROETHYLENE	µg/L		BDL	7/15/2024	5
VINYL CHLORIDE	µg/L		BDL	7/15/2024	2
XYLENES (total)	µg/L		BDL	7/15/2024	10000

ORGANIC CHEMICAL ANALYSES - SOC's (CA) - (EFFLUENT ENTRY POINT AT SCFP)			RESULTS	DATE	MCL
1,2-DIBROMO-3-CHLOROPROPANE	µg/L		BDL	8/7/2024	0.2
2,4-D	µg/L		BDL	8/7/2024	70
2,4,5-TP	µg/L		BDL	8/7/2024	50
ALACHLOR (LASSO)	µg/L		BDL	8/7/2024	2
ALDICARB	µg/L		BDL	8/7/2024	N/A
ALDICARB SULFONE	µg/L		BDL	8/7/2024	N/A
ALDICARB SULFOXIDE	µg/L		BDL	8/7/2024	N/A
ATRAZINE	µg/L		BDL	8/7/2024	3
BENZO(a)PYRENE	µg/L		BDL	8/7/2024	0.2
BHC-GAMMA/LINDANE	µg/L		BDL	8/7/2024	0.2
CARBOFURAN	µg/L		BDL	8/7/2024	40
CHLORDANE	µg/L		BDL	8/7/2024	2
DALAPON	µg/L		BDL	8/7/2024	200
DINOSEB	µg/L		BDL	8/7/2024	7
DIQUAT	µg/L		BDL	8/7/2024	20
DI(2-ethylhexyl)ADIPATE	µg/L		BDL	8/7/2024	400
DI(2-ethylhexyl)PHTHALATE	µg/L		BDL	8/7/2024	6
ENDOTHALL	µg/L		BDL	8/7/2024	100
ENDRIN	µg/L		BDL	8/7/2024	2
ETHYLENE DIBROMIDE	µg/L		BDL	8/7/2024	0.05
HEPTACHLOR	µg/L		BDL	8/7/2024	0.4
HEPTACHLOR EPOXIDE	µg/L		BDL	8/7/2024	0.2
HEXACHLOROBENZENE	µg/L		BDL	8/7/2024	1
HEXACHLOROCYCLOPENTADIENE	µg/L		BDL	8/7/2024	50
METHOXYCHLOR	µg/L		BDL	8/7/2024	40
OXAMYL	µg/L		BDL	8/7/2024	200
PENTACHLOROPHENOL	µg/L		BDL	8/7/2024	1
PICLORAM	µg/L		BDL	8/7/2024	500
POLYCHLORINATED BIPHENYLS	µg/L		BDL	8/7/2024	0.5
SIMAZINE	µg/L		BDL	8/7/2024	4
TOXAPHENE	µg/L		BDL	8/7/2024	3

POLYFLUOROALKYL SUBSTANCES (PFAS)(CA)			EPA PROPOSED MCL/HI			
			RESULTS	HI CALC.	DATE	MCL/HI
PFOA - Perfluorooctanoic	ng/L		ND	NA	10/9/2024	4.0 ng/L
PFOS - Perfluorooctanesulfonic acid	ng/L		ND	NA	10/9/2024	4.0 ng/L
PFNA - Perfluorononanoic acid	ng/L		ND	0	10/9/2024	10 ng/L-HI
PFHxS - Perfluorohexanesulfonic acid	ng/L		ND	0	10/9/2024	10 ng/L-HI
PFBS - Perfluorobutanesulfonic acid	ng/L		0.00068	0	10/9/2024	HI
HFPO-DA (GenX)	ng/L		ND	0	10/9/2024	10 ng/L-HI
HAZARD INDEX TOTAL	ng/L			0	10/9/2024	1.0 HI MCL

For more information on PFAS, please visit the EPA website at:  
<https://www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas>

## DISTRIBUTION SYSTEMS SAMPLES

### CHLORINE (Districts Measure)

		TOTAL SAMPLES	MIN	MAX	AVG	DATE	MRDL
EAST LARIMER COUNTY WATER DISTRICT	mg/L	25	0.37	1.04	0.80	Oct-24	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	25	0.28	0.99	0.70	Nov-24	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	25	0.33	1.08	0.80	Dec-24	4.0
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FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	70	0.48	1.22	0.81	Oct-24	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	70	0.38	1.33	0.77	Nov-24	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	70	0.42	1.36	0.78	Dec-24	4.0
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NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.26	1.01	0.72	Oct-24	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.25	1.10	0.69	Nov-24	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.33	1.10	0.76	Dec-24	4.0

### TOTAL COLIFORMS (EN/MMS/WCL)

		TOTAL SAMPLES	# POSITIVE	# NEGATIVE	DATE	MCL **TT LEVEL 1 or 2
EAST LARIMER COUNTY WATER DISTRICT		25	0	25	Oct-24	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		25	0	25	Nov-24	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		25	0	25	Dec-24	NO/NO
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FT COLLINS/LOVELAND WATER DISTRICT		70	0	70	Oct-24	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		70	0	70	Nov-24	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		70	0	70	Dec-24	NO/NO
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NORTH WELD COUNTY WATER DISTRICT		18	0	18	Oct-24	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Nov-24	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Dec-24	NO/NO

## DISTRIBUTION SYSTEMS SAMPLES - CONTINUED

<u>TOTAL TRIHALOMETHANES AND HALOACETIC ACIDS</u>		TTHM RESULTS	MCL (LRAA)	HAA5 RESULTS	MCL (LRAA)	DATE
<u>EAST LARIMER COUNTY WATER DISTRICT (SGS)</u>						
SAMPLE SITE - DBP001	µg/L	36.8	80	35.9	60	10/9/2024
SAMPLE SITE - DBP002	µg/L	29.1	80	25.3	60	10/9/2024
SAMPLE SITE - DBP003	µg/L	20.1	80	23.7	60	10/9/2024
SAMPLE SITE - DBP004	µg/L	44.5	80	27.8	60	10/9/2024

<u>FORT COLLINS/LOVELAND WATER DISTRICT (CA)</u>						
SAMPLE SITE - DBP001	µg/L	25.2	80	18.4	60	10/9/2024
SAMPLE SITE - DBP002	µg/L	33.3	80	19.9	60	10/9/2024
SAMPLE SITE - DBP003	µg/L	29.1	80	20.4	60	10/9/2024
SAMPLE SITE - DBP004	µg/L	32.4	80	18.3	60	10/9/2024
SAMPLE SITE - DBP005	µg/L	25.4	80	18.8	60	10/9/2024
SAMPLE SITE - DBP006	µg/L	26.9	80	17.4	60	10/9/2024
SAMPLE SITE - DBP007	µg/L	33.7	80	24.2	60	10/9/2024
SAMPLE SITE - DBP008	µg/L	32.6	80	25.2	60	10/9/2024

<u>NORTH WELD COUNTY WATER DISTRICT (WCL)</u>						
SAMPLE SITE - DBP001	µg/L	42.33	80	24.40	60	10/8/2024
SAMPLE SITE - DBP002	µg/L	33.13	80	14.76	60	10/8/2024
SAMPLE SITE - DBP003	µg/L	42.84	80	29.90	60	10/8/2024
SAMPLE SITE - DBP004	µg/L	27.35	80	13.68	60	10/8/2024

<u>CHLORITE (CA)</u>		1ST RES	AVG RES	MAX RES	DATE	MCL
FROM DISTRIBUTION SYSTEM(S)	mg/L	0.48	0.50	0.45	10/9/2024	1.0

<u>LEAD AND COPPER</u>		90TH PERCENTILE mg/L	DATE	90th% ACTION LEVEL mg/L
<u>EAST LARIMER COUNTY WATER DISTRICT (SGS)</u>		30 SAMPLES COLLECTED		
LEAD	mg/L	0.004	Jun-Jul-2022	0.015
COPPER	mg/L	0.19	Jun-Jul-2022	1.3

<u>FORT COLLINS LOVELAND WATER DISTRICT (CA)</u>		30 SAMPLES COLLECTED		
LEAD	mg/L	0.001	Jun-24	0.015
COPPER	mg/L	0.184	Jun-24	1.3

<u>NORTH WELD COUNTY WATER DISTRICT (WCL)</u>		30 SAMPLES COLLECTED		
LEAD	mg/L	0.00353	Aug-Sep 2024	0.015
COPPER	mg/L	0.25	Aug-Sep 2024	1.3

**MCL = Maximum Contaminate Level - Enforcable**

**PFAS = Per- and Polyfluorinated Alkyl Substances**

**mg/L (ppm) = Milligrams Per Liter (Parts Per Million)**

**ng/L (ppt) = Nanograms Per Liter (Parts Per Trillion)**

**APHA = American Public Health Association color scale**

**\*SMCL = Secondary Maximum Contaminate Level - Recomendado**

**\*\*TT = Treatment Technique**

**SOC = Synthetic Organic Chemicals**

**RAA = Running Annual Average**

**ACTION LEVEL = Addition treatment required if exceeded**

**< = Less Than**

**(FCL) = Fort Collins Lab (UL) = United Lab (SGS) = SGS Lab (MMS) = MMS Environmental (WCL) = Weld County Lab**

**(CA) = Colorado Analytical Lab (EA) = Eurofins Eaton Analytical (EN) = Eanalytics**

**(SCWQL) = Soldier Canyon Water Quality Lab (SCFP) = Soldier Canyon Filter Plant**

**BDL = Below Detectable Limit**

**HI - Hazard Index**

**µg/L (ppb) = Micrograms Per Liter (Parts Per Billion)**

**pCi/L = Picocuries Per Liter**

**µs/L = MicroSiemens Per Centimeter**

**ND = Not Detected NT = Not Tested**

**N/A = Not applicable**

**VOC = Volatile Organic Chemicals**

**LRAA = Location Running Annual Average**

**MRDL = Maximum Residual Disinfectant Level**

**> = Greater Than**