

SOLDIER CANYON WATER TREATMENT AUTHORITY

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

WATER QUALITY REPORT

3RD 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	14.0	33.0	25.2	35.0	55.0	44.9	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.022	0.048	0.035	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	14.0	27.0	21.3	19.0	27.0	21.6	N/A
CHLORINE	mg/l	N/A	N/A	N/A	1.22	1.43	1.33	4.0 MRDL
CHLORITE	mg/l	N/A	N/A	N/A	0.18	0.60	0.39	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	0.00	0.07	0.00	0.8
CONDUCTIVITY	µs/cm	41.2	80.1	65.5	91.5	143.5	117.2	N/A
DISSOLVED OXYGEN	mg/l	2.5	7.2	5.6	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.09	0.28	0.19	0.62	0.78	0.70	4.0/*2.0
HARDNESS (TOTAL)	mg/l	18.0	32.0	26.9	25.0	30.0	27.7	N/A
IRON	mg/l	0.06	0.12	0.08	0.00	0.02	0.01	*0.3
MANGANESE	mg/l	0.006	0.141	0.054	0.001	0.008	0.003	*0.05
pH	VALUE	6.66	7.82	7.23	7.94	8.59	8.32	*6.5-8.5
TEMPERATURE	°C	8.2	20.9	13.3	10.5	15.9	13.0	N/A
TRUE COLOR	APHA	7.0	22.0	12.7	0.0	2.0	0.8	*15.0
TURBIDITY	NTU	0.47	9.07	1.76	0.013	0.043	0.015	**<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

TOTAL ORGANIC CARBON (CA) - (SCFP INFLUENT AND EFFLUENT)

			INFLUENT	EFFLUENT	TT RATIO	DATE	MCL - **TT
TOTAL ORGANIC CARBON - TOC	mg/L		3.6	2.0	1.27	7/15/2024	RAA - ≥1.0
			3.5	2.0	1.22	7/15/2024	RAA - ≥1.0
			3.4	1.8	1.34	8/7/2024	RAA - ≥1.1
			3.1	1.8	1.20	8/7/2024	RAA - ≥1.1
			3.6	2.1	1.19	9/4/2024	RAA - ≥1.1
			3.7	2.1	1.24	9/4/2024	RAA - ≥1.1

			INFLUENT	DATE	MCL
ALKALINITY (CA) - (SCFP INFLUENT)	mg/l		26.3	7/15/2024	N/A
			25.6	7/15/2024	N/A
			25.1	8/7/2024	N/A
			20.6	8/7/2024	N/A
			25.6	9/4/2024	N/A
			24.4	9/4/2024	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
CHLOROBEZENE	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-DICHLOROBEZENE	µg/L		BDL	7/15/2024	600
para-DICHLOROBEZENE	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	6/12/2024	4.0 ng/L
PFOS - Perfluorooctanesulfonic acid	ng/L		ND	NA	6/12/2024	4.0 ng/L
PFNA - Perfluorononanoic acid	ng/L		ND	0	6/12/2024	10 ng/L-HI
PFHxS - Perfluorohexanesulfonic acid	ng/L		ND	0	6/12/2024	10 ng/L-HI
PFBS - Perfluorobutanesulfonic acid	ng/L		0.00086	0	6/12/2024	HI
HFPO-DA (GenX)	ng/L		ND	0	6/12/2024	10 ng/L-HI
HAZARD INDEX TOTAL	ng/L			0	6/12/2024	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	0.49	1.14	0.91	Jul-24	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	25	0.49	1.13	0.84	Aug-24	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	25	0.50	1.14	0.87	Sep-24	4.0
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FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	70	0.60	1.28	0.87	Jul-24	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	70	0.51	1.18	0.80	Aug-24	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	70	0.32	1.21	0.83	Sep-24	4.0
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NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.27	1.09	0.76	Jul-24	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.31	1.12	0.71	Aug-24	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.23	1.06	0.73	Sep-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	Jul-24	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		25	0	25	Aug-24	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		25	0	25	Sep-24	NO/NO
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FT COLLINS/LOVELAND WATER DISTRICT		70	0	70	Jul-24	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		70	0	70	Aug-24	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		70	0	70	Sep-24	NO/NO
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NORTH WELD COUNTY WATER DISTRICT		18	0	18	Jul-24	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Aug-24	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Sep-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	40.4	80	39.6	60	7/2/2024
SAMPLE SITE - DBP002	µg/L	34.0	80	39.0	60	7/2/2024
SAMPLE SITE - DBP003	µg/L	20.7	80	30.1	60	7/2/2024
SAMPLE SITE - DBP004	µg/L	47.3	80	45.9	60	7/2/2024

<u>FORT COLLINS/LOVELAND WATER DISTRICT (CA)</u>						
SAMPLE SITE - DBP001	µg/L	31.9	80	22.1	60	7/11/2024
SAMPLE SITE - DBP002	µg/L	35.7	80	31.0	60	7/11/2024
SAMPLE SITE - DBP003	µg/L	31.1	80	29.4	60	7/11/2024
SAMPLE SITE - DBP004	µg/L	35.1	80	30.9	60	7/11/2024
SAMPLE SITE - DBP005	µg/L	31.5	80	28.5	60	7/11/2024
SAMPLE SITE - DBP006	µg/L	32.9	80	29.7	60	7/11/2024
SAMPLE SITE - DBP007	µg/L	37.7	80	29.4	60	7/11/2024
SAMPLE SITE - DBP008	µg/L	38.1	80	29.0	60	7/11/2024

<u>NORTH WELD COUNTY WATER DISTRICT (WCL)</u>						
SAMPLE SITE - DBP001	µg/L	80.50	80	25.50	60	7/16/2024
SAMPLE SITE - DBP002	µg/L	57.00	80	33.50	60	7/16/2024
SAMPLE SITE - DBP003	µg/L	59.50	80	37.00	60	7/16/2024
SAMPLE SITE - DBP004	µg/L	44.10	80	33.80	60	7/16/2024

<u>CHLORITE (CA)</u>		1ST RES	AVG RES	MAX RES	DATE	MCL
FROM DISTRIBUTION SYSTEM(S)	mg/L	0.36	0.36	0.34	8/7/2024	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	0.00279	Jun-21	0.015
COPPER	mg/L	0.26	Jun-21	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 - Recommended**

****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 (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