

SOLDIER CANYON WATER TREATMENT AUTHORITY

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

WATER QUALITY REPORT

2ND QUARTER 2023

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	36.0	26.7	37.0	44.0	41.0	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.037	0.056	0.044	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	13.0	31.0	24.0	21.0	29.0	24.7	N/A
CHLORINE	mg/l	N/A	N/A	N/A	1.21	1.55	1.34	4.0 MRDL
CHLORITE	mg/l	N/A	N/A	N/A	0.22	0.64	0.41	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	0.00	0.04	0.00	0.8
CONDUCTIVITY	µs/cm	43.1	88.3	72.8	105.5	119.8	115.1	N/A
DISSOLVED OXYGEN	mg/l	8.5	11.4	9.8	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.15	0.21	0.18	0.21	0.75	0.64	4.0/*2.0
HARDNESS (TOTAL)	mg/l	19.0	45.0	30.2	26.0	41.0	33.3	N/A
IRON	mg/l	0.02	0.26	0.10	0.00	0.01	0.00	*0.3
MANGANESE	mg/l	0.008	0.080	0.023	0.000	0.007	0.004	*0.05
pH	VALUE	7.16	7.93	7.57	8.05	8.57	8.37	*6.5-8.5
TEMPERATURE	°C	3.7	16.0	7.9	4.3	12.7	7.8	N/A
TRUE COLOR	APHA	3.0	36.0	17.7	0.0	1.0	1.0	*15.0
TURBIDITY	NTU	0.64	20.59	3.64	0.013	0.033	0.016	**<0.3 TT

<u>INORGANIC CONTAMINANTS ANALYSES (SGS) - (EFFLUENT ENTRY POINT AT SCFP)</u>			RESULTS	DATE	MCL
ANTIMONY	mg/l		<0.00040	1/11/2023	0.006
ARSENIC	mg/l		<0.0020	1/11/2023	0.010
BARIUM	mg/l		0.020	1/11/2023	2.000
BERYLLIUM	mg/l		<0.00030	1/11/2023	0.004
CADMIUM	mg/l		<0.00015	1/11/2023	0.005
CHROMIUM	mg/l		<0.0020	1/11/2023	0.1
FLUORIDE	mg/l		0.60	1/11/2023	4.0
MERCURY	mg/l		<0.00010	1/11/2023	0.002
NICKEL	mg/l		<0.0020	1/11/2023	N/A
SELENIUM	mg/l		<0.00070	1/11/2023	0.050
SODIUM	mg/l		8.6	1/11/2023	N/A
THALLIUM	mg/l		<0.00020	1/11/2023	0.002

<u>NITRATE AND/OR NITRITE AS NITROGEN (SGS) - (EFFLUENT ENTRY POINT AT SCFP)</u>			RESULTS	DATE	MCL
NITRATE	mg/l		<0.0040	1/11/2023	10.000
NITRITE	mg/l		<0.010	1/11/2023	1.000

<u>TOTAL ORGANIC CARBON (SGS) - (SCFP INFLUENT AND CF EFFLUENT)</u>			INFLUENT	EFFLUENT	TT RATIO	DATE	MCL - **TT
TOTAL ORGANIC CARBON - TOC	mg/L		2.7	1.7	1.06	4/5/2023	RAA - ≥1.0
			2.9	1.9	0.99	5/3/2023	RAA - ≥1.0
			3.5	2.3	0.98	6/7/2023	RAA - ≥1.0
			4.8	2.3	1.16	6/7/2023	RAA - ≥1.0
			INFLUENT			DATE	MCL
ALKALINITY - (SCFP INFLUENT ONLY)	mg/l		30.0			4/5/2023	N/A
			35.5			5/3/2023	N/A
			35.0			6/7/2023	
			25.0			6/7/2023	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 (SGS) - (EFFLUENT ENTRY POINT AT SCFP)

			RESULTS	DATE	MCL
1,1,1-TRICHLOROETHANE	µg/L		ND	1/11/2023	200
1,1,2-TRICHLOROETHANE	µg/L		ND	1/11/2023	5
1,1-DICHLOROETHYLENE	µg/L		ND	1/11/2023	7
1,2,4-TRICHLOROBENZENE	µg/L		ND	1/11/2023	70
1,2-DICHLOROETHANE	µg/L		ND	1/11/2023	5
1,2-DICHLOROPROPANE	µg/L		ND	1/11/2023	5
BENZENE	µg/L		ND	1/11/2023	5
CARBON TETRACHLORIDE	µg/L		ND	1/11/2023	5
CHLOROBENZENE	µg/L		ND	1/11/2023	100
cis-1,2-DICHLOROETHYLENE	µg/L		ND	1/11/2023	70
DICHLOROMETHANE	µg/L		ND	1/11/2023	5
ETHYLBENZENE	µg/L		ND	1/11/2023	700
o-DICHLOROBENZENE	µg/L		ND	1/11/2023	600
para-DICHLOROBENZENE	µg/L		ND	1/11/2023	75
STYRENE	µg/L		ND	1/11/2023	100
TETRACHLOROETHYLENE	µg/L		ND	1/11/2023	5
TOLUENE	µg/L		ND	1/11/2023	1000
trans-1,2-DICHLOROETHYLENE	µg/L		ND	1/11/2023	100
TRICHLOROETHYLENE	µg/L		ND	1/11/2023	5
VINYL CHLORIDE	µg/L		ND	1/11/2023	2
XYLENES (total)	µg/L		ND	1/11/2023	10000

ORGANIC CHEMICAL ANALYSES - SOC's (SGS) - (EFFLUENT ENTRY POINT AT SCFP)

			RESULTS	DATE	MCL
1,2-DIBROMO-3-CHLOROPROPANE	µg/L		ND	1/11/2023	0.2
2,4-D	µg/L		ND	5/3/2023	70
2,4,5-TP	µg/L		ND	5/3/2023	50
ALACHLOR (LASSO)	µg/L		ND	1/11/2023	2
ALDICARB	µg/L		ND	1/11/2023	N/A
ALDICARB SULFONE	µg/L		ND	1/11/2023	N/A
ALDICARB SULFOXIDE	µg/L		ND	1/11/2023	N/A
ATRAZINE	µg/L		ND	1/11/2023	3
BENZO(a)PYRENE	µg/L		ND	1/11/2023	0.2
CARBOFURAN	µg/L		ND	1/11/2023	40
CHLORDANE	µg/L		ND	1/11/2023	2
DALAPON	µg/L		ND	5/3/2023	200
DINOSEB	µg/L		ND	5/3/2023	7
DIQUAT	µg/L		ND	1/11/2023	20
DI(2-ethylhexyl)ADIPATE	µg/L		ND	1/11/2023	400
DI(2-ethylhexyl)PHTHALATE	µg/L		ND	5/3/2023	6
ENDOTHALL	µg/L		ND	1/11/2023	100
ENDRIN	µg/L		ND	1/11/2023	2
ETHYLENE DIBROMIDE	µg/L		ND	1/11/2023	0.05
HEPTACHLOR	µg/L		ND	1/11/2023	0.4
HEPTACHLOR EPOXIDE	µg/L		ND	1/11/2023	0.2

ORGANIC CHEMICAL ANALYSES - SOC's (SGS) (con't)

			RESULTS	DATE	MCL
HEXACHLOROBENZENE	µg/L		ND	1/11/2023	1
HEXACHLOROCYCLOPENTADIENE	µg/L		ND	1/11/2023	50
LINDANE/BHC-GAMMA	µg/L		ND	6/28/2023	0.2
METHOXYCHLOR	µg/L		ND	1/11/2023	40
OXAMYL	µg/L		ND	1/11/2023	200
PENTACHLOROPHENOL	µg/L		ND	5/3/2023	1
PICLORAM	µg/L		ND	5/3/2023	500
POLYCHLORINATED BIPHENYLS	µg/L		ND	1/11/2023	0.5
SIMAZINE	µg/L		ND	1/11/2023	4
TOXAPHENE	µg/L		ND	1/11/2023	3

DISTRIBUTION SYSTEMS SAMPLES

CHLORINE (Districts Measure)

		TOTAL SAMPLES	MIN	MAX	AVG	DATE	MRDL
EAST LARIMER COUNTY WATER DISTRICT	mg/L	25	0.45	1.28	0.88	Apr-23	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	25	0.46	1.12	0.80	May-23	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	26	0.32	1.09	0.78	Jun-23	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	70	0.43	1.26	0.70	Apr-23	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	70	0.50	1.20	0.78	May-23	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	70	0.36	1.28	0.75	Jun-23	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.32	1.17	0.89	Apr-23	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.41	1.09	0.85	May-23	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.22	0.98	0.69	Jun-23	4.0

TOTAL COLIFORMS (MMS/WCL)

		TOTAL SAMPLES	# POSITIVE	# NEGATIVE	DATE	MCL **TT LEVEL 1 or 2
EAST LARIMER COUNTY WATER DISTRICT		25	0	25	Apr-23	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		25	0	25	May-23	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		26	0	26	Jun-23	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		70	0	70	Apr-23	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		70	0	70	May-23	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		70	0	70	Jun-23	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Apr-23	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	May-23	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Jun-23	NO/NO

DISTRIBUTION SYSTEMS SAMPLES - CONTINUED

<u>TOTAL TRIHALOMETHANES AND HALOACETIC ACIDS</u>		TTHM RESULTS	MCL (LRAA)	HAA RESULTS	MCL (LRAA)	DATE
<u>EAST LARIMER COUNTY WATER DISTRICT (SGS)</u>						
SAMPLE SITE - DBP001	µg/L	35.6	80	27.6	60	4/3/2023
SAMPLE SITE - DBP002	µg/L	53.5	80	28.9	60	4/3/2023
SAMPLE SITE - DBP003	µg/L	35.1	80	32.5	60	4/3/2023
SAMPLE SITE - DBP004	µg/L	49.9	80	27.4	60	4/3/2023

<u>FORT COLLINS/LOVELAND WATER DISTRICT (CA)</u>						
SAMPLE SITE - DBP001	µg/L	42.0	80	25.0	60	4/5/2023
SAMPLE SITE - DBP002	µg/L	37.8	80	24.8	60	4/5/2023
SAMPLE SITE - DBP003	µg/L	38.5	80	24.9	60	4/5/2023
SAMPLE SITE - DBP004	µg/L	28.7	80	19.5	60	4/5/2023
SAMPLE SITE - DBP005	µg/L	34.6	80	23.6	60	4/5/2023
SAMPLE SITE - DBP006	µg/L	28.3	80	18.9	60	4/5/2023
SAMPLE SITE - DBP007	µg/L	46.0	80	25.7	60	4/5/2023
SAMPLE SITE - DBP008	µg/L	39.6	80	25.0	60	4/5/2023

<u>NORTH WELD COUNTY WATER DISTRICT (WCL)</u>						
SAMPLE SITE - DBP001	µg/L	67.88	80	27.70	60	4/11/2023
SAMPLE SITE - DBP002	µg/L	33.58	80	25.40	60	4/11/2023
SAMPLE SITE - DBP003	µg/L	34.65	80	24.70	60	4/11/2023
SAMPLE SITE - DBP004	µg/L	30.62	80	23.60	60	4/11/2023

<u>CHLORITE</u>		1ST RES	AVG RES	MAX RES	DATE	MCL
FROM DISTRIBUTION SYSTEM(S)	mg/L	0.37	0.45	0.40	6/6/2023	1.0

<u>LEAD AND COPPER</u>		90TH PERCENTILE mg/L	DATE	90th% ACTION LEVEL mg/L
<u>EAST LARIMER COUNTY WATER DISTRICT (AL)</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>		60 SAMPLES COLLECTED		
LEAD	mg/L	0.003	JAN-FEB 2022	0.015
COPPER	mg/L	0.147	JAN-FEB 2022	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	BDL = Below Detectable Limit
*SMCL = Secondary Maximum Contaminate Level - Recomendad	ND = Not Detected NT = Not Tested
**TT = Treatment Technique	N/A = Not applicable
SOC = Synthetic Organic Chemicals	VOC = Volatile Organic Chemicals
RAA = Running Annual Average	LRAA = Location Running Annual Average
ACTION LEVEL = Addition treatment required if exceeded	MRDL = Maximum Residual Disinfectant Level
< = Less Than	> = Greater 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 (SCFP) = Soldier Canyon Filter Plant	