SOLDIER CANYON WATER TREATMENT AUTHORITY

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

WATER QUALITY REPORT — 1ST QUARTER 2021

ANALYSIS PARAMETER Monitored at SCFP (not a certified lab)	Report Values	PLANT INFLUENT			PLANT EFFLUENT			
		MIN	MAX	AVG	MIN	MAX	AVG	MCL *SMCL
ALKALINITY	mg/l	28.0	31.0	30.1	36.0	40.0	38.0	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.033	0.040	0.037	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	27.0	32.0	28.9	26.0	30.0	28.4	N/A
CHLORINE	mg/l	N/A	N/A	N/A	1.13	1.43	1.31	4.0 MRDL
CHLORITE	mg/l	N/A	N/A	N/A	<0.02	0.58	0.45	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	0.31	0.58	0.45	0.8
CONDUCTIVITY	µs/cm	72.8	103.0	77.0	75.3	102.9	96.9	N/A
DISSOLVED OXYGEN	mg/l	9.9	11.2	10.6	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.16	0.21	0.19	0.61	0.80	0.73	4.0/*2.0
HARDNESS (TOTAL)	mg/l	33.0	38.0	34.6	32.0	38.0	33.7	N/A
IRON	mg/l	0.03	0.04	0.04	0.01	0.01	0.01	*0.3
LANGLIER INDEX	S.I.#	-1.16	-1.91	-1.63	-1.19	-1.28	-1.21	N/A
MANGANESE	mg/l	0.02	0.03	0.02	0.001	0.005	0.004	*0.05
pH	VALUE	7.30	7.88	7.62	7.94	8.20	8.08	*6.5-8.5
TEMPERATURE	°C	2.0	3.6	2.6	2.5	3.9	3.0	N/A
TOTAL DISSOLVED SOLIDS	mg/l	35.2	51.2	38.4	37.7	51.4	48.6	*500
TRUE COLOR	APHA	4.0	12.0	7.6	0.0	1.0	0.0	*15.0
TURBIDITY	NTU	1.32	2.70	1.86	0.011	0.068	0.014	**<0.3 TT

INORGANIC CONTAMINANTS ANALYSES (SGS) - (EFFLUENT ENTRY POINT AT SCFP)			RESULTS	DATE	MCL
ANTIMONY	mg/l		ND	1/6/2021	0.006
ARSENIC	mg/l		ND	1/6/2021	0.010
BARIUM	mg/l		0.021	1/6/2021	2.000
BERYLLIUM	mg/l		ND	1/6/2021	0.004
CADMIUM	mg/l		ND	1/6/2021	0.005
CHROMIUM	mg/l		ND	1/6/2021	0.1
FLUORIDE	mg/l		0.66	2/3/2021	4.0
MERCURY	mg/l		ND	1/6/2021	0.002
NICKEL	mg/l		ND	1/6/2021	N/A
SELENIUM	mg/l		0.00076	1/6/2021	0.050
SODIUM	mg/l		8.6	1/6/2021	N/A
THALLIUM	mg/l		ND	1/6/2021	0.002

NITRATE AND/OR NITRITE AS NITROGEN (SGS) - (EFFLUENT ENTRY POINT AT SCFP)			RESULTS	DATE	MCL
NITRATE	mg/l		0.021	2/3/2021	10.000
NITRITE	mg/l		ND	2/3/2021	1.000

TOTAL ORGANIC CARBON (SGS) - (SCFP INFLUENT AND CF EFFLUENT)			INFLUENT	EFFLUENT	TT RATIO	DATE	MCL - **TT
TOTAL ORGANIC CARBON - TOC	mg/L		2.9	1.8	1.08	1/6/2021	RAA - ≥1.0
			2.9	1.70	1.18	2/3/2021	RAA - ≥1.0
			3.1	1.8	1.20	3/10/2021	RAA - ≥1.0
			INFLUENT			DATE	MCL
ALKALINITY - (SCFP INFLUENT ONLY)	mg/l		27.5			1/6/2021	N/A
			25.0			2/3/2021	N/A
			36.5			3/10/2021	N/A

RADIONUCLIDE ANALYSES (UL) - (EFFLUENT ENTRY POINT AT SCFP)			RESULTS	DATE	MCL
GROSS ALPHA	pCi/L		1.7	8/24/2011	15
URANIUM	ppb		0.01	8/24/2011	30
RADIUM 226 + 228	pCi/L		0.76	8/24/2011	5
GROSS BETA	pCi/L		2.1	8/24/2011	50

ORGANIC CHEMICAL ANALYSES - VOC's (SGS) - (EFFLUENT ENTRY POINT AT SCFP)			RESULTS	DATE	MCL
1,1,1-TRICHLOROETHANE	µg/L		ND	1/6/2021	200
1,1,2-TRICHLOROETHANE	µg/L		ND	1/6/2021	5
1,1-DICHLOROETHYLENE	µg/L		ND	1/6/2021	7
1,2,4-TRICHLOROBENZENE	µg/L		ND	1/6/2021	70
1,2-DICHLOROETHANE	µg/L		ND	1/6/2021	5
1,2-DICHLOROPROPANE	µg/L		ND	1/6/2021	5
BENZENE	µg/L		ND	1/6/2021	5
CARBON TETRACHLORIDE	µg/L		ND	1/6/2021	5
CHLOROBENZENE	µg/L		ND	1/6/2021	100
cis-1,2-DICHLOROETHYLENE	µg/L		ND	1/6/2021	70
DICHLOROMETHANE	µg/L		ND	1/6/2021	5
ETHYLBENZENE	µg/L		ND	1/6/2021	700
o-DICHLOROBENZENE	µg/L		ND	1/6/2021	600
para-DICHLOROBENZENE	µg/L		ND	1/6/2021	75
STYRENE	µg/L		ND	1/6/2021	100
TETRACHLOROETHYLENE	µg/L		ND	1/6/2021	5
TOLUENE	µg/L		ND	1/6/2021	1000
trans-1,2-DICHLOROETHYLENE	µg/L		ND	1/6/2021	100
TRICHLOROETHYLENE	µg/L		ND	1/6/2021	5
VINYL CHLORIDE	µg/L		ND	1/6/2021	2
XYLENES (total)	µg/L		ND	1/6/2021	10000

ORGANIC CHEMICAL ANALYSES - SOC's (SGS) - (EFFLUENT ENTRY POINT AT SCFP)			RESULTS	DATE	MCL
1,2-DIBROMO-3-CHLOROPROPANE	µg/L		ND	2/3/2021	0.2
2,4-D	µg/L		ND	2/3/2021	70
2,4,5-TP	µg/L		ND	2/3/2021	50
ALACHLOR (LASSO)	µg/L		ND	2/3/2021	2
ALDICARB	µg/L		ND	2/3/2021	N/A
ALDICARB SULFONE	µg/L		ND	2/3/2021	N/A
ALDICARB SULFOXIDE	µg/L		ND	2/3/2021	N/A
ATRAZINE	µg/L		ND	2/3/2021	3
BENZO(a)PYRENE	µg/L		ND	2/3/2021	0.2
CARBOFURAN	µg/L		ND	2/3/2021	40
CHLORDANE	µg/L		ND	2/3/2021	2
DALAPON	µg/L		ND	2/3/2021	200
DINOSEB	µg/L		ND	2/3/2021	7
DIQUAT	µg/L		ND	2/3/2021	20
DI(2-ethylhexyl)ADIPATE	µg/L		ND	2/3/2021	400
DI(2-ethylhexyl)PHTHALATE	µg/L		ND	2/3/2021	6
ENDOTHALL	µg/L		ND	2/3/2021	100
ENDRIN	µg/L		ND	2/3/2021	2
ETHYLENE DIBROMIDE	µg/L		ND	2/3/2021	0.05
HEPTACHLOR	µg/L		ND	2/3/2021	0.4
HEPTACHLOR EPOXIDE	µg/L		ND	2/3/2021	0.2

ORGANIC CHEMICAL ANALYSES - SOC's (SGS) (con't)			RESULTS	DATE	MCL
HEXACHLOROBENZENE	µg/L		ND	2/3/2021	1
HEXACHLOROCYCLOPENTADIENE	µg/L		ND	2/3/2021	50
LINDANE/BHC-GAMMA	µg/L		ND	2/3/2021	0.2
METHOXYCHLOR	µg/L		ND	2/3/2021	40
OXAMYL	µg/L		ND	2/3/2021	200
PENTACHLOROPHENOL	µg/L		ND	2/3/2021	1
PICLORAM	µg/L		ND	2/3/2021	500
POLYCHLORINATED BIPHENYLS	µg/L		ND	2/3/2021	0.5
SIMAZINE	µg/L		ND	2/3/2021	4
TOXAPHENE	µg/L		ND	2/3/2021	3

DISTRIBUTION SYSTEMS SAMPLES

CHLORINE (Districts Measure)		TOTAL SAMPLES	MIN	MAX	AVG	DATE	MRDL
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.39	1.28	0.86	Jan-21	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.57	1.27	0.93	Feb-21	4.0
EAST LARIMER COUNTY WATER DISTRICT	mg/L	20	0.46	1.12	0.92	Mar-21	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	50	0.26	1.38	0.70	Jan-21	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	50	0.27	1.34	0.79	Feb-21	4.0
FORTCOLLINS/LOVELAND WATER DISTRICT	mg/L	50	0.38	1.17	0.80	Mar-21	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.31	0.95	0.73	Jan-21	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.67	1.07	0.86	Feb-21	4.0
NORTH WELD COUNTY WATER DISTRICT	mg/L	18	0.76	1.03	0.88	Mar-21	4.0

TOTAL COLIFORMS (MMS/WCL)		TOTAL SAMPLES	# POSITIVE	# NEGATIVE	DATE	MCL **TT LEVEL 1 or 2
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Jan-21	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Feb-21	NO/NO
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Mar-21	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		50	0	50	Jan-21	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		50	0	50	Feb-21	NO/NO
FT COLLINS/LOVELAND WATER DISTRICT		50	0	50	Mar-21	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Jan-21	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Feb-21	NO/NO
NORTH WELD COUNTY WATER DISTRICT		18	0	18	Mar-21	NO/NO

DISTRIBUTION SYSTEMS SAMPLES - CONTINUED

TOTAL TRIHALOMETHANES AND HALOACETIC ACIDS		TTHM RESULTS	MCL (LRAA)	HAA RESULTS	MCL (LRAA)	DATE
EAST LARIMER COUNTY WATER DISTRICT (SGS)						
SAMPLE SITE - DBP001	µg/L	41.3	80	22.3	60	1/5/2021
SAMPLE SITE - DBP002	µg/L	65.3	80	30.4	60	1/5/2021
SAMPLE SITE - DBP003	µg/L	26.9	80	21.4	60	1/5/2021
SAMPLE SITE - DBP004	µg/L	59.8	80	29.8	60	1/5/2021
FORT COLLINS/LOVELAND WATER DISTRICT (CA)						
SAMPLE SITE - DBP001	µg/L	38.2	80	21.2	60	1/12/2021
SAMPLE SITE - DBP002	µg/L	30.2	80	15.6	60	1/12/2021
SAMPLE SITE - DBP003	µg/L	26.8	80	20.0	60	1/12/2021
SAMPLE SITE - DBP004	µg/L	19.7	80	12.2	60	1/12/2021
NORTH WELD COUNTY WATER DISTRICT (WCL)						
SAMPLE SITE - DBP001	µg/L	34.88	80	19.40	60	1/12/2021
SAMPLE SITE - DBP002	µg/L	23.86	80	24.60	60	1/12/2021
SAMPLE SITE - DBP003	µg/L	27.77	80	24.00	60	1/12/2021
SAMPLE SITE - DBP004	µg/L	21.48	80	23.60	60	1/12/2021

CHLORITE		1ST RES	AVG RES	MAX RES	DATE	MCL
EAST LARIMER COUNTY WD (FCL)	mg/L	0.42	0.42	0.37	1/19/2021	1.0
FORT COLLINS/LOVELAND WD (CA)	mg/L	0.40	0.39	0.17	1/12/2021	1.0
NORTH WELD COUNTY WD (WCL)	mg/L	0.44	0.43	0.44	2/22/2021	1.0

LEAD AND COPPER		90TH PERCENTILE mg/L	DATE	90th% ACTION LEVEL mg/L
EAST LARIMER COUNTY WATER DISTRICT (AL)		30 SAMPLES COLLECTED		
LEAD	mg/L	0.0032	Jun-Jul-2020	0.015
COPPER	mg/L	0.22	Jun-Jul-2020	1.3
FORT COLLINS LOVELAND WATER DISTRICT (CA)		30 SAMPLES COLLECTED		
LEAD	mg/L	0.002	Jun-20	0.015
COPPER	mg/L	0.211	Jun-20	1.3
NORTH WELD COUNTY WATER DISTRICT (WCL)		30 SAMPLES COLLECTED		
LEAD	mg/L	0.0024	Jul-20	0.015
COPPER	mg/L	<0.2	Jul-20	1.3

MCL = Maximum Contaminate Level - Enforcable	**BDL = Below Detectable Limit**
***SMCL = Secondary Maximum Contaminate Level - Recomended**	**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