

TRI DISTRICT/SOLDIER CANYON FILTER PLANT

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

WATER QUALITY REPORT

2ND QUARTER 2013

ANALYSIS PARAMETER <small>Monitored at SCFP (not a certified lab)</small>	report values	PLANT INFLUENT			PLANT EFFLUENT			MCL
		MIN	MAX	AVG	MIN	MAX	AVG	*SMCL
ALKALINITY	mg/l	9	30	24.3	27	41	30.0	N/A
ALUMINUM	mg/l	N/A	N/A	N/A	0.01	0.047	0.03	*0.05 - 0.2
CALCIUM HARDNESS	mg/l	12	28	22.5	19	26	22.6	N/A
CHLORINE	mg/l	N/A	N/A	N/A	0.75	0.91	0.84	4.0
CHLORITE	mg/l	N/A	N/A	N/A	0.13	0.32	0.22	1.0
CHLORINE DIOXIDE	mg/l	N/A	N/A	N/A	0	0.03	0.0	0.8
CONDUCTIVITY	uS/cm	22.9	68	53.6	49.5	88.5	76.0	N/A
DISSOLVED OXYGEN	mg/l	8.4	11	10.1	N/A	N/A	N/A	N/A
FLUORIDE	mg/l	0.18	0.20	0.19	0.15	0.88	0.71	4.0/*2.0
HARDNESS	mg/l	14	34	26.7	23	35	29.7	N/A
IRON	mg/l	0.05	0.26	0.10	0	0.02	0.01	*0.3
LANGLIER INDEX	S.I.#	-1.74	-2.78	-1.95	-1.18	-1.52	-1.37	N/A
MANGANESE	mg/l	0.015	0.075	0.030	0.001	0.007	0.003	*0.05
pH	VALUE	7.20	7.82	7.56	7.8	8.15	7.63	N/A
TEMPERATURE	°C	4.6	14.6	6.7	4.6	9.8	6.3	N/A
TOTAL DISSOLVED SOLIDS	mg/l	13.4	35.2	31.4	35.5	46.8	42.0	*500
TRUE COLOR	APHA	4	43	12.5	0	3.0	0.7	*15.0
TURBIDITY	NTU	1.65	9.4	3.56	0.02	0.091	0.021	**<0.3 TT

INORGANIC CONTAMINANTS ANALYSES (UL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)			RESULTS	DATE	MCL
ANTIMONY	mg/l		<0.0010	2/12/2013	0.006
ARSENIC	mg/l		<0.0020	2/12/2013	0.010
BARIUM	mg/l		0.019	2/12/2013	2.000
BERYLLIUM	mg/l		<0.0003	2/12/2013	0.004
CADMIUM	mg/l		<0.0010	2/12/2013	0.005
CHROMIUM	mg/l		<0.0020	2/12/2013	0.1
CYANIDE	mg/l		<0.02	2/12/2013	0.2
FLUORIDE	mg/l		0.7	2/12/2013	4.0
MERCURY	mg/l		<0.0001	2/12/2013	0.002
NICKEL	mg/l		<0.0010	2/12/2013	*SMCL
SELENIUM	mg/l		<0.0020	2/12/2013	0.050
SODIUM	mg/l		7.9	2/12/2013	*SMCL
THALLIUM	mg/l		<0.0004	2/12/2013	0.002

NITRATE AND/OR NITRITE AS NITROGEN (UL) - (ENTER INTO DISTRIBUTION SYSTEM)			RESULTS	DATE	MCL
NITRATE	mg/l		0.1	2/12/2013	10.000
NITRITE	mg/l		<0.01	2/12/2013	1.000

TOTAL ORGANIC CARBON (FCL/AL) - (PLANT INFLUENT AND EFFLUENT)			INFLUENT	EFFLUENT	TT RATIO	DATE	MCL - **TT
TOTAL ORGANIC CARBON - TOC	mg/L		3.3	2	1.13	4/24/2013	RAA - ≥1.0
			3.4	2	1.18	5/14/2013	RAA - ≥1.0
			3.8	2.1	1.28	6/17/2013	RAA - ≥1.0
			INFLUENT			DATE	MCL
ALKALINITY - (PLANT INFLUENT ONLY)	mg/l		27.3			4/24/2013	N/A
			27.1			5/14/2013	N/A
			24.1			6/17/2013	N/A

RADIONUCLIDE ANALYSES (UL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)

			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 (UL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)

			RESULTS	DATE	MCL
1,1-DICHLOROETHYLENE	µg/L		ND	2/12/2013	7
1,1,1-TRICHLOROETHANE	µg/L		ND	2/12/2013	200
1,1,2-TRICHLOROETHANE	µg/L		ND	2/12/2013	5
1,2-DICHLOROETHANE	µg/L		ND	2/12/2013	5
1,2-DICHLOROPROPANE	µg/L		ND	2/12/2013	5
1,2,4-TRICHLOROBENZENE	µg/L		ND	2/12/2013	70
BENZENE	µg/L		ND	2/12/2013	5
CARBON TETRACHLORIDE	µg/L		ND	2/12/2013	5
cis-1,2-DICHLOROETHYLENE	µg/L		ND	2/12/2013	70
DICHLOROMETHANE	µg/L		ND	2/12/2013	5
ETHYLBENZENE	µg/L		ND	2/12/2013	700
MONOCHLOROBENZENE	µg/L		ND	2/12/2013	100
o-DICHLOROBENZENE	µg/L		ND	2/12/2013	600
para-DICHLOROBENZENE	µg/L		ND	2/12/2013	75
STYRENE	µg/L		ND	2/12/2013	100
TETRACHLOROETHYLENE	µg/L		ND	2/12/2013	5
TOLUENE	µg/L		ND	2/12/2013	1000
trans-1,2-DICHLOROETHYLENE	µg/L		ND	2/12/2013	100
TRICHLOROETHYLENE	µg/L		ND	2/12/2013	5
VINYL CHLORIDE	µg/L		ND	2/12/2013	2
XYLENES (total)	µg/L		ND	2/12/2013	1000

ORGANIC CHEMICAL ANALYSES - SOC's (UL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)

					RESULTS	DATE	MCL
2,4-D	µg/L		ND	7/5/2011	ND	10/25/2011	70
2,4,5-TP	µg/L		ND	7/5/2011	ND	10/25/2011	50
ALACHLOR	µg/L		ND	7/5/2011	ND	10/25/2011	2
ATRAZINE	µg/L		ND	7/5/2011	ND	10/25/2011	3
BENZO(a)PYRENE	µg/L		ND	7/5/2011	ND	10/25/2011	0.2
CARBOFURAN	µg/L		ND	7/5/2011	ND	10/25/2011	40
CHLORDANE	µg/L		ND	7/5/2011	ND	10/25/2011	2
DALAPON	µg/L		ND	7/5/2011	ND	10/25/2011	200
DIBROMOCHLOROPROPANE	µg/L		ND	7/5/2011	ND	10/25/2011	0.2
DINOSEB	µg/L		ND	7/5/2011	ND	10/25/2011	7
DIQUAT	µg/L		ND	7/5/2011	ND	10/25/2011	20
DI(2-ethylhexyl)ADIPATE	µg/L		ND	7/5/2011	ND	10/25/2011	400
DI(2-ethylhexyl)PHTHALATE	µg/L		ND	7/5/2011	ND	10/25/2011	6
ENDOTHALL	µg/L		ND	7/5/2011	ND	10/25/2011	100
ENDRIN	µg/L		ND	7/5/2011	ND	10/25/2011	2
ETHYLENE DIBROMIDE	µg/L		ND	7/5/2011	ND	10/25/2011	0.05
HEPTACHLOR	µg/L		ND	7/5/2011	ND	10/25/2011	0.4
HEPTACHLOR EPOXIDE	µg/L		ND	7/5/2011	ND	10/25/2011	0.2
HEXACHLOROBENZENE	µg/L		ND	7/5/2011	ND	10/25/2011	1
HEXACHLOROCYCLOPENTADIENE	µg/L		ND	7/5/2011	ND	10/25/2011	50
LINDANE	µg/L		ND	7/5/2011	ND	10/25/2011	0.2
METHOXYCHLOR	µg/L		ND	7/5/2011	ND	10/25/2011	40

ORGANIC CHEMICAL ANALYSES - SOC's (UL) (con't) - (ENTRY INTO THE DISTRIBUTION SYSTEM)

						RESULTS	DATE	MCL
OXAMYL	µg/L		ND	7/5/2011		ND	10/25/2011	200
PENTACHLOROPHENOL	µg/L		ND	7/5/2011		ND	10/25/2011	1
PICLORAM	µg/L		ND	7/5/2011		ND	10/25/2011	500
POLYCHLORINATED BIPHENYLS	µg/L		ND	7/5/2011		ND	10/25/2011	0.5
SIMAZINE	µg/L		ND	7/5/2011		ND	10/25/2011	4
TOXAPHENE	µg/L		ND	7/5/2011		ND	10/25/2011	3

UNREGULATED ORGANIC CHEMICALS - SOC'S (UL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)

						RESULTS	DATE	MCL
3-HYDROXYCARBOFURAN	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
ALDICARB	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
ALDICARB SULFONE	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
ALDICARB SULFOXIDE	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
ALDRIN	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
BUTACHLOR	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
CARBARYL	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
DICAMBA	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
DIELDRIN	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
METHOMYL	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
METOLACHLOR	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
METRIBUZIN	µg/L		ND	7/5/2011		ND	10/25/2011	N/A
PROPACHLOR	µg/L		ND	7/5/2011		ND	10/25/2011	N/A

UNREGULATED ORGANIC CHEMICALS - VOC's (UL) - (ENTRY INTO THE DISTRIBUTION SYSTEM)

						RESULTS	DATE	MCL
1,1-DICHLOROETHANE	µg/L					ND	2/12/2013	N/A
1,1-DICHLOROPROPENE	µg/L					ND	2/12/2013	N/A
1,1,1,2-TETRACHLOROETHANE	µg/L					ND	2/12/2013	N/A
1,1,2,2-TETRACHLOROETHANE	µg/L					ND	2/12/2013	N/A
1,2,3-TRICHLOROBENZENE	µg/L					ND	2/12/2013	N/A
1,2,3-TRICHLOROPROPANE	µg/L					ND	2/12/2013	N/A
1,2,4-TRIMETHYLBENZENE	µg/L					ND	2/12/2013	N/A
1,3-DICHLOROPROPANE	µg/L					ND	2/12/2013	N/A
1,3-DICHLOROPROPENE	µg/L					ND	2/12/2013	N/A
1,3,5-TRIMETHYLBENZENE	µg/L					ND	2/12/2013	N/A
2,2-DICHLOROPROPANE	µg/L					ND	2/12/2013	N/A
BROMOBENZENE	µg/L					ND	2/12/2013	N/A
BROMOCHLOROMETHANE	µg/L					ND	2/12/2013	N/A
BROMOMETHANE	µg/L					ND	2/12/2013	N/A
CHLOROETHANE	µg/L					ND	2/12/2013	N/A
CHLOROMETHANE	µg/L					ND	2/12/2013	N/A
DIBROMOMETHANE	µg/L					ND	2/12/2013	N/A
DICHLORODIFLUOROMETHANE	µg/L					ND	2/12/2013	N/A
FLUOROTRICHLOROMETHANE	µg/L					ND	2/12/2013	N/A
HEXACHLOROBUTADIENE	µg/L					ND	2/12/2013	N/A
ISOPROPYBENZENE	µg/L					ND	2/12/2013	N/A
m-DICHLOROBENZENE	µg/L					ND	2/12/2013	N/A
NAPHTHALENE	µg/L					ND	2/12/2013	N/A
n-BUTYLBENZENE	µg/L					ND	2/12/2013	N/A

UNREGULATED ORGANIC CHEMICALS-VOC's (UL) (con't)-(ENTRY INTO THE DISTRIBUTION SYSTEM)			RESULTS	DATE	MCL
n-PROPYLBENZENE	µg/L		ND	2/12/2013	N/A
o-CHLOROTOLUENE	µg/L		ND	2/12/2013	N/A
p-CHLOROTOLUENE	µg/L		ND	2/12/2013	N/A
p-ISOPROPYLTOLUENE	µg/L		ND	2/12/2013	N/A
sec-BUTYLBENZENE	µg/L		ND	2/12/2013	N/A
tert-BUTYLBENZENE	µg/L		ND	2/12/2013	N/A

CHLORITE (FCL) - (FROM DISTRIBUTION SYSTEM)		MIN	MAX	AVG	DATE	MCL
CHLORITE	mg/L	0.341	0.432	0.391	4/22/2013	1.0

TOTAL COLIFORMS (SE/WCL) - (FROM DISTRIBUTION SYSTEM)		TOTAL SAMPLES	# POSITIVE	# NEGATIVE	DATE	MCL
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Apr-13	>1 POSITIVE
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	May-13	>1 POSITIVE
EAST LARIMER COUNTY WATER DISTRICT		20	0	20	Jun-13	>1 POSITIVE
FORTCOLLINS/LOVELAND WATER DISTRICT		45	0	45	Apr-13	>2 POSITIVE
FORTCOLLINS/LOVELAND WATER DISTRICT		45	0	45	May-13	>2 POSITIVE
FORTCOLLINS/LOVELAND WATER DISTRICT		45	0	45	Jun-13	>2 POSITIVE
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Apr-13	>1 POSITIVE
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Feb-13	>1 POSITIVE
NORTH WELD COUNTY WATER DISTRICT		10	0	10	Mar-13	>1 POSITIVE

TTHM AND HAA (UL) - (FROM DISTRIBUTION SYSTEM)		TTHM RESULTS	MCL (LRAA)	HAA RESULTS	MCL (LRAA)	DATE
EAST LARIMER COUNTY WATER DISTRICT						
SAMPLE SITE - ELC SM4	µg/L	31.7	80	23	60	2 QTR LRAA
SAMPLE SITE - ELC SM6	µg/L	43.5	80	24.8	60	2 QTR LRAA
SAMPLE SITE - ELC SM2	µg/L	20.1	80	35	60	2 QTR LRAA
FORT COLLINS/LOVELAND WATER DISTRICT						
SAMPLE SITE - FCL SM4	µg/L	22.3	80	24	60	2 QTR LRAA
SAMPLE SITE - FCL SM6	µg/L	39.9	80	20.7	60	2 QTR LRAA
NORTH WELD COUNTY WATER DISTRICT						
SAMPLE SITE - NWC SM1	µg/L	44.8	80	27.5	60	2 QTR LRAA
SAMPLE SITE - NWC SM4	µg/L	35	80	37	60	2 QTR LRAA
SAMPLE SITE - NWC MAX RES 1	µg/L	30.9	80	35	60	2 QTR LRAA

MCL = Maximum Contaminate Level - Enforcable
*SMCL = Secondary Maximum Contaminate Level - Recommended
**TT = Treatment Technique
RAA = Running Annual Average
(FCL) = Fort Collins Lab (UL) = United Lab (AL) = Accutest Lab (SE) = Stewart Environmental Lab (WCL) = Weld County Lab
BDL = Below Detectable Limit
ND = Not Detected
N/A = Not applicable
LRAA = Location Running Annual Average