COVINA IRRIGATING COMPANY

2013 ANNUAL WATER QUALITY REPORT

PARAMETER	UNITS	MCL [MRDL]	PHG (MCLG) [MRDLG]	SURFACE WATER RANGE	SURFACE WATER AVERAGE	GROUND WATER RANGE	GROUND WATER AVERAGE
PRIMARY STANDARDS - Mandatory Health Related Standards Established By The State Of California, D.P.H. (Con't)							
RADIOLOGICALS							
Gross Alpha Activity	pCi/l	15	(0)	ND	ND	ND	ND
Gross Beta Activity	pCi/l	50	(0)	ND	ND	NR	NR
Tritium	pCi/l	20,000	400	ND	ND	NR	NR
Strontium-90	pCi/l	8	0.35	ND	ND	NR	NR
Radium-226 & 228 Combined	pCi/l	5	(0)	ND	ND	ND	ND
Uranium	pCi/l	20	0.43	ND	ND	ND	ND
SECONDARY STANDARDS - Aesthetic Standards Established By The State Of California, D.P.H.							
Color	Units	15	NA	ND	ND	ND	ND
Odor - Threshold (at 60 F)	Units	3	NA	1	1	1	1
Chloride	ppm	500	NA	7.4 - 7.6	7.5	37 - 39	38
Copper (Cu)	ppb	1000	300	ND	ND	ND	ND
Foaming Agents (MBAS)	ppb	500	NA	ND	ND	ND	ND
Iron (Fe)	ppb	300	NA	ND	ND	ND	ND
Manganese (Mn)	ppb	50	NL = 500	ND	ND	ND	ND
Silver (Ag)	ppb	100	NA	ND	ND	ND	ND
Sulfate (SO4)	ppm	500	NA	23 - 32	28	33 - 35	34
Zinc (Zn)	ppm	5	NA	ND	ND	ND	ND
Total Dissolved Solids	ppm	1,000	NA	210 - 230	220	290 - 300	295
Specific Conductance (E.C.)	umho/cm	1,600	NA	360 - 400	380	500 - 510	505
UNREGULATED CHEMICALS							
Boron	ppb	NL=1,000	NA	80 - 110	95	110 - 120	120
Chromium VI	ppb	NA	0.02	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)	ppb	NL=1,000	NA	ND	ND	ND	ND
Ethyl tert-Butyl Ether (ETBE)	ppb	NA	NA	ND	ND	ND	ND
N-nitrosodimethylamine (NDMA)	ppt	NL = 10	3	ND	ND	<2	<2
tert-Amyl-methyl Ether (TAME)	ppb	NA	NA	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	ppb	NL = 12	NA	ND	ND	ND	ND
1,2,3- Trichloropropane	ppt	NL = 5	0.7	ND	ND	ND	ND
Vanadium	ppb	NL = 50	NA	ND	ND	ND	ND
ADDITIONAL CONSTITUENTS ANALYZED							
pH	Units	NA	NA	7.8	7.8	7.8 - 7.9	7.9
Total Hardness (as CaCo3)	ppm	NA	NA	150 - 180	165	170 - 180	175
Total Alkalinity (as CaCo3)	ppm	NA	NA	180	180	160 - 170	165
Sodium (Na)	ppm	NA	NA	14 - 17	16	34 - 35	35
Calcium (Ca)	ppm	NA	NA	39 - 45	42	50 - 55	53
Potassium (K)	ppm	NA	NA	3.6 - 4.8	4.2	3.4 - 3.5	3.5
Magnesium (Mg)	ppm	NA	NA	12 - 15	14	9.6 - 10	9.8
Langlier Index at 60°C	-	NA	NA	0.6	0.6	0.4	0.4

KEY TO ABBREVIATIONS: SURFACE WATER = San Gabriel River, GROUND WATER = Main San Gabriel Basin

MCL = Maximum Contaminant Level
MCLG = Maximum Contaminant Level Goal
AL = Action Level
ND = None Detected
NR = Monitoring Not Required
NA = Not Applicable

MRDL(G) = Maximum Residual Disinfectant Level (Goal)
ppm = parts per million
ppb = parts per billion
ppt = parts per trillion
ppq = parts per quadrillion
pCi/l = pico curies per liter

umho/cm = micromhos per cm
MFL = Million fibers per liter
NTU = Nephelometric Turbidity Units
NL = Notification Level
D.P.H. = Department of Public Health

Additional Water Quality Data May Be Obtained By Contacting:

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COVINA IRRIGATING COMPANY

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PRIMARY STANDARDS - Mandatory Health Related Standards Established By The State Of California, D.P.H.							
CLARITY							
Effluent Turbidity	NTU	0.3	NA	0.03 - 0.17	0.05	ND	ND
MICROBIOLOGICAL							
Total Coliform Bacteria	% Test	5	(0)	ND	ND	ND	ND
Fecal Coliform Bacteria	Positive	0	(0)	ND	ND	ND	ND
DISINFECTANT RESIDUALS							
Free Chlorine Residual	ppm	[4]	[4]	0.92 - 2.68	1.5	0.71 - 1.70	1.2
Total Chlorine Residual	ppm	[4]	[4]	N/A	N/A	N/A	N/A
DISINFECTANT BY-PRODUCTS							
Total Trihalomethanes (TTHM)	ppb	80	NA	51 - 72	62.1	1.6 - 35	13.3
Total Haloacetic Acids (HAA5)	ppb	60	NA	20 - 26	23.1	ND - 5.8	1.9
ORGANIC CHEMICALS							
Trichloroethylene (TCE)	ppb	5	1.7	ND	ND	ND	ND
Tetrachloroethylene (PCE)	ppb	5	0.06	ND	ND	ND	ND
Methyl tert-Butyl Ether (MTBE)	ppb	13	13	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	ppb	150	700	ND	ND	ND	ND
1,1 Dichloroethylene (DCE)	ppb	6	10	ND	ND	ND	ND
(all other VOC's monitored)				ND	ND	ND	ND
Atrazine	ppb	1	0.15	ND	ND	ND	ND
Chlordane	ppt	100	30	ND	ND	ND	ND
2,3,7,8-TCDD (Dioxin)	ppq	30	0.05	ND	ND	ND	ND
Diquat	ppb	20	15	ND	ND	ND	ND
Simazine	ppb	4	4	ND	ND	ND	ND
Thiobencarb	ppb	70	70	ND	ND	ND	ND
INORGANIC CHEMICALS							
Aluminum (Al)	ppb	1000	600	ND - 520	306	ND	ND
Antimony	ppb	6	20	ND	ND	ND	ND
Arsenic (As)	ppb	10	0.004	4.2 - 13	9.2	2.2 - 4.0	3.3
Asbestos	MFL	7	7	ND	ND	ND	ND
Barium (Ba)	ppb	1000	2000	ND	ND	ND - 140	<100
Beryllium	ppb	4	1	ND	ND	ND	ND
Cadmium (Cd)	ppb	5	.04	ND	ND	ND	ND
Chromium (Total Cr)	ppb	50	(100)	ND	ND	ND	ND
Cyanide	ppb	150	150	ND	ND	ND	ND
Fluoride (Dependant On Temp. *F)	ppm	2	1	0.35 - 0.48	0.42	0.38	0.38
Lead (Pb)	ppb	AL = 15	0.2	ND	ND	ND	ND
Mercury (Hg)	ppb	2	1.2	ND	ND	ND	ND
Nickel	ppb	100	12	ND	ND	ND	ND
Nitrate (as NO3)	ppm	45	45	0.60 - 0.62	0.6	15 - 18	16.3
Nitrite (as nitrogen)	ppm	1	1	ND	ND	ND	ND
Perchlorate	ppb	6	6	ND	ND	<4	<4
Selenium (Se)	ppb	50	30	ND	ND	ND	ND
Thallium	ppb	2	0.1	ND	ND	ND	ND