COVINA IRRIGATING COMPANY

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DPH DWP OB-Los Angeles

2012 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
Gross Beta Activity	pCi/l	50	(0)	-	ND	NR	NR
Tritium	pCi/l	20,000	400	-	ND	NR	NR
Strontium-90	pCi/l	8	0.35	-	ND	NR	NR
Radium-226 & 228 Combined	pCi/l	5	(0)	-	ND	-	ND
Uranium	pCi/l	20	0.43	-	ND	-	ND
SECONDARY STANDARDS - Aesthetic Standards Established By The State Of California, D.P.H.							
Color	Units	15	NA	-	ND	-	ND
Odor - Threshold (at 60 F)	Units	3	NA	-	1	-	1
Chloride	ppm	500	NA	2.8 - 6.6	6.4	38 - 39	39
Copper (Cu)	ppb	1	0.3	-	ND	-	ND
Foaming Agents (MBAS)	ppb	500	NA	-	ND	-	ND
Iron (Fe)	ppb	300	NA	-	ND	-	ND
Manganese (Mn)	ppb	50	NL = 500	-	ND	-	ND
Silver (Ag)	ppb	100	NA	-	ND	-	ND
Sulfate (SO4)	ppm	500	NA	17 - 23	20	31 - 35	33
Zinc (Zn)	ppm	5	NA	-	ND	-	ND
Total Dissolved Solids	ppm	1,000	NA	210 - 230	220	280 - 330	305
Specific Conductance (E.C.)	umho/cm	1,600	NA	350 - 390	370	510 - 520	515
UNREGULATED CHEMICALS							
Boron	ppb	NL=1,000	NA	64 - 70	67	-	120
Chromium VI	ppb	NA	0.02	-	ND	-	ND
Dichlorodifluoromethane (Freon 12)	ppb	NL=1,000	NA	-	ND	-	ND
Ethyl tert-Butyl Ether (ETBE)	ppb	NA	NA	-	ND	-	ND
N-nitrosodimethylamine (NDMA)	ppt	NL = 10	3	-	ND	-	<2
tert-Amyl-methyl Ether (TAME)	ppb	NA	NA	-	ND	-	ND
tert-Butyl alcohol (TBA)	ppb	NL = 12	NA	-	ND	-	ND
1,2,3- Trichloropropane	ppt	NL = 5	0.7	-	ND	-	ND
Vanadium	ppb	NL = 50	NA	-	ND	-	ND
ADDITIONAL CONSTITUENTS ANALYZED							
pH	Units	NA	NA	7.8 - 8.0	7.9	-	7.6
Total Hardness (as CaCo3)	ppm	NA	NA	160 - 180	170	160 - 180	170
Total Alkalinity (as CaCo3)	ppm	NA	NA	170 - 180	175	160 - 170	165
Sodium (Na)	ppm	NA	NA	-	12	35 - 39	37
Calcium (Ca)	ppm	NA	NA	43 - 50	47	50 - 54	52
Potassium (K)	ppm	NA	NA	3.5 - 3.8	3.7	3.4 - 3.8	3.6
Magnesium (Mg)	ppm	NA	NA	-	12	8.9 - 10.0	9.5
Langlier Index at 60°C	-	NA	NA	1.0 - 1.1	1.0	0.6 - 0.8	0.7

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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PARAMETER	UNITS	MCL [MRDL]	PHG (MCLG) [MRDLG]	SURFACE WATER		GROUND WATER	
				RANGE	AVERAGE	RANGE	AVERAGE
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
MICROBIOLOGICAL							
Total Coliform Bacteria	% Test	5	(0)	-	ND	-	ND
Fecal Coliform Bacteria	Positive	0	(0)	-	ND	-	ND
DISINFECTANT RESIDUALS							
Free Chlorine Residual	ppm	[4]	[4]	0.80 - 2.50	1.4	0.40 - 1.72	1.0
Total Chlorine Residual	ppm	[4]	[4]	N/A	N/A	N/A	N/A
DISINFECTANT BY-PRODUCTS							
Total Trihalomethanes (TTHM)	ppb	80	NA	22 - 100	32.8	1.0 - 78	11.9
Total Haloacetic Acids (HAA5)	ppb	60	NA	17 - 42	30.5	ND - 25	9.3
ORGANIC CHEMICALS							
Trichloroethylene (TCE)	ppb	5	1.7	-	ND	-	ND
Tetrachloroethylene (PCE)	ppb	5	0.06	-	ND	-	ND
Methyl tert-Butyl Ether (MTBE)	ppb	13	13	-	ND	-	ND
Trichlorofluoromethane (Freon 11)	ppb	150	700	-	ND	-	ND
1,1 Dichloroethylene (DCE)	ppb	6	10	-	ND	-	ND
(all other VOC's monitored)				-	ND	-	ND
Atrazine	ppb	1	0.15	-	ND	-	ND
Chlordane	ppt	100	30	-	ND	-	ND
2,3,7,8-TCDD (Dioxin)	ppq	30	0.05	-	ND	-	ND
Diquat	ppb	20	15	-	ND	-	ND
Simazine	ppb	4	4	-	ND	-	ND
Thiobencarb	ppb	70	70	-	ND	-	ND
INORGANIC CHEMICALS							
Aluminum (Al)	ppb	1000	600	89 - 98	94	-	ND
Antimony	ppb	6	20	-	ND	-	ND
Arsenic (As)	ppb	10	0.004	-	6.6	2.2 - 4.0	3.2
Asbestos	MFL	7	7	-	NR	-	ND
Barium (Ba)	ppb	1000	2000	-	ND	ND - 140	<100
Beryllium	ppb	4	1	-	ND	-	ND
Cadmium (Cd)	ppb	5	.04	-	ND	-	ND
Chromium (Total Cr)	ppb	50	(100)	-	ND	-	ND
Cyanide	ppb	150	150	-	ND	-	ND
Fluoride (Dependant On Temp. *F)	ppm	2	1	0.36 - 0.42	0.39	0.37 - 0.39	0.38
Lead (Pb)	ppb	AL = 15	0.2	-	ND	-	ND
Mercury (Hg)	ppb	2	1.2	-	ND	-	ND
Nickel	ppb	100	12	-	ND	-	ND
Nitrate (as NO3)	ppm	45	45	ND - 0.6	0.6	14 - 18	15.8
Nitrite (as nitrogen)	ppm	1	1	-	ND	-	ND
Perchlorate	ppb	6	6	-	ND	-	<4
Selenium (Se)	ppb	50	30	-	ND	-	ND
Thallium	ppb	2	0.1	-	ND	-	ND