

**Three Valleys Municipal Water District
2012 WATER QUALITY REPORT TO TVMWD MEMBER AGENCIES**

WEYMOUTH refers to the Metropolitan Water District's Weymouth Water Treatment Plant in the city of La Verne.
MIRAMAR refers to the Three Valleys Municipal Water District's Miramar Water Treatment Plant in the city of Claremont.

	WEYMOUTH	MIRAMAR	REGULATORY STANDARDS			Major Sources in Drinking Water
	EFFLUENT	EFFLUENT	State MCL	PHG	State DLR	
	Range/Average	Range/Average	[MRDL]	(MCLG)		
				[MRDLG]		
SOURCE WATER						
% of State Project Water	7%-99%/46%	95.96%	NA	NA	NA	
% of Groundwater		4.04%				

PRIMARY STANDARDS - Mandatory Health-Related Standards

CLARITY							
Combined Filter Effluent Turbidity (a)	NTU	0.04 (highest)	0.10 (highest)	TT=1	NA	NA	Soil runoff
	% ≤ 0.3	100%	100%	TT (a)			

MICROBIOLOGICAL							
Total Coliform Bacteria (b)	%	ND-0.5/0.1 distribution system-wide	ND-1.2/ND distribution system-wide	5.0	(0)	NA	Naturally present in the environment
Fecal Coliform/ <i>E. coli</i> (c)	(c)	ND distribution system-wide	ND distribution system-wide	(C)	(0)	NA	Human and animal fecal waste
Heterotrophic Plate Count	CFU/mL	TT	TT	TT	NA	NA	Naturally present in the environment
<i>Cryptosporidium</i>	Oocyst 200 L	ND	ND	TT	(0)	NA	Human and animal fecal waste
<i>Giardia</i>	Cysts 200 L	ND	ND	TT	(0)	NA	Human and animal fecal waste

ORGANIC CHEMICALS

<u>Pesticides/PCBs</u>	<u>Units</u>						
Alachlor	ppb	ND	ND	2	4	1	Runoff from herbicide used on row crops
Atrazine	ppb	ND	ND	1	0.15	0.5	Runoff from herbicide used on row crops and along highways
Bentazon	ppb	ND	ND	18	200	2	Runoff/leaching from herbicide used on rice, alfalfa, grapes
Carbofuran	ppb	ND	ND	18	1.7	5	Leaching of soil fumigant used on rice, alfalfa and grapes
Chlordane	ppt	ND	ND	100	30	100	Residue of banned insecticide
2,4-D	ppb	ND	ND	70	20	10	Runoff from herbicide used on row crops, range land, lawns
Dalapon	ppb	ND	ND	200	790	10	Runoff from herbicide used on rights of way, crops and landscapes
Dibromochloropropane (DBCP)	ppt	ND	ND	200	1.7	10	Banned nematocide that may still be present in soils due to runoff/leaching
Dinoseb	ppb	ND	ND	7	14	2	Runoff from herbicide used on soybeans, vegetables and fruits
Diquat	ppb	ND	ND	20	15	4	Runoff from herbicide used for terrestrial and aquatic weeds
Endothall	ppb	ND	ND	100	580	45	Runoff from herbicide used for terrestrial and aquatic weeds
Endrin	ppb	ND	ND	2	1.8	0.1	Residue of banned insecticide and rodenticide
Ethylene dibromide (EDB)	ppt	ND	ND	50	10	20	Discharge from petroleum refineries; underground gas tank leaks
Glyphosate	ppb	ND	ND	700	900	25	Runoff from herbicide use
Heptachlor	ppt	ND	ND	10	8	10	Residue of banned insecticide
Heptachlor Epoxide	ppt	ND	ND	10	6	10	Breakdown product of heptachlor
Lindane	ppt	ND	ND	200	32	200	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor	ppb	ND	ND	30	0.09	10	Runoff/leaching from insecticide uses
Molinate (Ordram)	ppb	ND	ND	20	1	2	Runoff/leaching from herbicide used on rice
Oxamyl (Vydate)	ppb	ND	ND	50	26	20	Runoff/leaching from insecticide uses
Pentachlorophenol (PCP)	ppb	ND	ND	1	0.3	0.2	Discharge from wood preserving factories & other insecticide uses
Picloram	ppb	ND	ND	500	500	1	Herbicide runoff
Polychlorinated Biphenyls (PCBs)	ppt	ND	ND	500	90	500	Runoff from landfills; discharge of waste chemicals
Simazine	ppb	ND	ND	4	4	1	Herbicide runoff
2,4,5-TP (Silvex)	ppb	ND	ND	50	25	1	Residue of banned herbicide
Thiobencarb (d)	ppb	ND	ND	70	70	1	Runoff/leaching from herbicide used on rice
Toxaphene	ppb	ND	ND	3	0.03	1	Runoff/leaching from insecticide used on cotton and cattle

Semi-Volatile Organic Chemicals							
Acrylamide	NA	TT	NR	TT	(0)	NA	Added to water during sewage/wastewater treatment
Benzo(a)pyrene	ppt	ND	ND	200	7	100	Leaching from linings of water storage tanks and distribution mains
Di(2-ethylhexyl) adipate	ppb	ND	ND	400	200	5	Discharge from chemical factories
Di(2-ethylhexyl) phthalate	ppb	ND	ND	4	12	3	Discharge from chemical factories; inert ingredient in pesticides
Epichlorohydrin	NA	TT	NR	TT	(0)	NA	Water treatment chemical impurities
Hexachlorobenzene	ppb	ND	ND	1	0.03	0.5	Discharge from metal refineries & agricultural factories; wastewater chlorination reaction by-product
Hexachlorocyclopentadiene	ppb	ND	ND	50	50	1	Discharge from chemical factories
2,3,7,8-TCDD (Dioxin)	ppq	ND	ND	30	0.05	5	Emissions from waste incineration; discharge from chemical factories

	WEYMOUTH EFFLUENT		MIRAMAR EFFLUENT		REGULATORY STANDARDS			Major Sources in Drinking Water
	Range/Average	Range/Average	State MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR			
SOURCE WATER								
% of State Project Water	7%-99%/46%		95.96%	NA	NA	NA		
% of Groundwater			4.04%					
PRIMARY STANDARDS - Mandatory Health-Related Standards								
<u>Volatile Organic Chemicals</u>								
Benzene	ppb	ND	ND	1	0.15	0.5	Plastic factory discharge; gas tanks and landfill leaching	
Carbon Tetrachloride	ppt	ND	ND	500	100	500	Discharge from chemical plants and other industrial activities	
1,2-Dichlorobenzene	ppb	ND	ND	600	600	0.5	Discharge from industrial chemical factories	
1,4-Dichlorobenzene	ppb	ND	ND	5	6	0.5	Discharge from industrial chemical factories	
1,1-Dichloroethane	ppb	ND	ND	5	3	0.5	Extraction & degreasing solvent; fumigant	
1,2-Dichloroethane	ppt	ND	ND	500	400	500	Discharge from industrial chemical factories	
1,1-Dichloroethylene	ppb	ND	ND	6	10	0.5	Discharge from industrial chemical factories	
cis -1,2-Dichloroethylene	ppb	ND	ND	6	100	0.5	Industrial chemical factory discharge; biodegradation byproduct of TCE/PCE groundwater contamination	
trans -1,2-Dichloroethylene	ppb	ND	ND	10	60	0.5	Industrial chemical factory discharge; biodegradation byproduct of TCE/PCE groundwater contamination	
Dichloromethane (methylene chloride)	ppb	ND	ND	5	4	0.5	Discharge from pharmaceutical and chemical factories	
1,2-Dichloropropane	ppb	ND	ND	5	0.5	0.5	Discharge from industrial chemical factories; primary component of some fumigants	
1,3-Dichloropropene	ppt	ND	ND	500	200	500	Runoff/leaching from nematocide used on croplands	
Ethylbenzene	ppb	ND	ND	300	300	0.5	Discharge from petroleum refineries; industrial chemical factories	
Methyl-tert-butyl-ether (MTBE) (d,e)	ppb	ND	ND	13	13	3	Leaking underground storage tanks; discharge from petroleum and chemical factories	
Monochlorobenzene	ppb	ND	ND	70	200	0.5	Discharge from industrial, agricultural chemical factories and dry-cleaning facilities	
Styrene	ppb	ND	ND	100	0.5	0.5	Discharge from rubber and plastics factories; leaching from landfills	
1,1,2,2-Tetrachloroethane	ppb	ND	ND	1	0.1	0.5	Discharge from industrial, agricultural chemical factories; solvent used in productions of TCE	
Tetrachloroethylene (PCE)	ppb	ND	ND	5	0.06	0.5	Discharge from factories, dry cleaners and auto shops (metal degreaser)	
Toluene	ppb	ND	ND	150	150	0.5	Discharge from petroleum and chemical refineries; underground gas tank leaks	
1,2,4-Trichlorobenzene	ppb	ND	ND	5	5	0.5	Discharge from textile-finishing factories	
1,1,1-Trichloroethane	ppb	ND	ND	200	1000	0.5	Discharge from metal degreasing sites; manufacture of food wrappings	
1,1,2-Trichloroethane	ppb	ND	ND	5	0.3	0.5	Discharge from industrial chemical factories	
Trichloroethylene (TCE)	ppb	ND	ND	5	1.7	0.5	Discharge from metal degreasing sites and other factories	
Trichlorofluoromethane (Freon 11)	ppb	ND	ND	150	700	5	Discharge from industrial factories; degreasing solvent; propellant and refrigerant	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ppm	ND	ND	1.2	4	0.01	Discharge from metal degreasing sites and other factories; dry-cleaning solvent; refrigerant	
Vinyl chloride	ppt	ND	ND	500	50	500	Leaching from PVC piping; plastics factory discharge; biodegradation byproduct of TCE/PCE groundwater	
Xylenes	ppm	ND	ND	1.75	1.8	0.0005	Discharge from petroleum and chemical refineries; fuel solvent	
<u>INORGANIC CHEMICALS</u>								
Aluminum (d)	ppb	ND-210/120	ND	1000	600	50	Residue from water treatment process; erosion of natural deposits	
Antimony	ppb	ND	ND	6	20	6	Discharge from petroleum refineries; fire retardant; solder; electronics	
Arsenic	ppb	ND	ND	10	0.004	2	Erosion of natural deposits; glass & electronics production wastes	
Asbestos	MFL	ND	ND	7	7	0.2	Internal corrosion of asbestos cement pipes; erosion of natural deposits	
Barium	ppb	ND	ND	1000	2000	100	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits	
Beryllium	ppb	ND	ND	4	1	1	Discharge from metal refineries; electrical, aerospace and defense industries	
Cadmium	ppb	ND	ND	5	0.04	1	Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints	
Chromium	ppb	ND	ND	50	(100)	10	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits	
Copper (d, k)	ppm	ND	ND	AL=1.3	0.3	0.05	Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives	
Cyanide	ppb	ND	ND	150	150	100	Discharge from steel/metal, plastic and fertilizer factories	
Fluoride (j)	ppm	0.6-1.1/0.8 (treatment related)	0.14 (naturally occurring)	2	1	0.1	Erosion of natural deposits; water additive that promotes strong teeth	
Lead (k)	ppb	ND	ND	AL=15	0.2	5	Internal corrosion of household pipes erosion of natural deposits	
Mercury	ppb	ND	ND	2	1.2	1	Erosion of natural deposits; discharge from factories; runoff from landfills	
Nickel	ppb	ND	ND	100	12	10	Erosion of natural deposits; discharge from metal factories	
Nitrate (as N) (g)	ppm	ND	0.6-0.75/0.45	10	10	0.4	Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits	
Nitrite (as N)	ppm	ND	ND	1	1	0.4	Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits	
Perchlorate	ppb	ND	ND	6	6	4	Inorganic chemical used in rocket propellant, fireworks, explosives	
Selenium	ppb	ND	ND	50	30	5	Discharge from petroleum refineries, mines; erosion of natural deposits	
Thallium	ppb	ND	ND	2	0.1	1	Leaching from ore-processing sites; discharge from electronics factories	
<u>RADIOLOGICALS</u>								
Gross Alpha Particle Activity	pCi/L	(r) ND-3/ND	(s) ND	15	(0)	3	Erosion of natural deposits	
Gross Beta Particle Activity (h)	pCi/L	ND-6/4	ND	50	(0)	4	Decay of natural and man-made deposits	
Combined Radium (i)	pCi/L	ND	ND	5	(0)	NA	Erosion of natural deposits	
Radium 226	pCi/L	ND	ND	NA	0.05	1	Erosion of natural deposits	
Radium 228	pCi/L	ND	ND	NA	0.019	1	Erosion of natural deposits	
Strontium-90	pCi/L	ND	0.093	8	0.35	2	Decay of natural and man-made deposits	
Tritium	pCi/L	ND	ND	20,000	400	1,000	Decay of natural and man-made deposits	
Uranium	pCi/L	1-2/2	ND	20	0.43	1	Erosion of natural deposits	

	WEYMOUTH EFFLUENT		MIRAMAR EFFLUENT		REGULATORY STANDARDS		
	Range/Average	Range/Average	State MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Major Sources in Drinking Water	

SOURCE WATER

% of State Project Water	7%-99%/46%	95.96%	NA	NA	NA	
% of Groundwater		4.04%				

DISINFECTION BY-PRODUCTS, DISINFECTANT RESIDUALS, AND DISINFECTION BY-PRODUCTS PRECURSORS

Total Trihalomethanes (TTHM) (m)	ppb	7.6-70/35 Distribution system-wide	37.1-57/47.8 Distribution system-wide	80	NA	1	By-product of drinking water disinfection
Haloacetic Acids (HAA5) (m)	ppb	1.3-23/16 Distribution system-wide	11.0-24.6/17.3 Distribution system-wide	60	NA	1	By-product of drinking water disinfection
Total Chlorine Residual	ppm	1.5-2.8/2.3 Distribution system-wide	2.27-2.98/2.61 Distribution system-wide	[4.0]	[4.0]	NA	Drinking water disinfectant added for treatment
DBP Precursor Control (TOC) (q)	ppm	TT	1.3-2.1/1.6	TT	NA	0.30	Various natural and man-made sources

SECONDARY STANDARDS - Aesthetic Standards

Aluminum (d)	ppb	ND-210/120	ND	200	600	50	Residue from water treatment processes; natural deposits, erosion
Chloride	ppm	85-95/90	83	500	NA	NA	Runoff/leaching from natural deposits; seawater influence
Color	units	1	ND	15	NA	NA	Naturally occurring organic materials
Copper (d, f)	ppm	ND	ND	1	0.3	0.05	Internal corrosion of household pipes; natural deposits erosion; wood preservatives leaching
Foaming Agents-MBAS	ppb	ND	ND	500	NA	NA	Municipal and industrial waste discharges
Iron	ppb	ND	ND	300	NA	100	Leaching from natural deposits; industrial wastes
Manganese	ppb	ND	ND	50	NL=500	20	Leaching from natural deposits
Methyl tert-butyl-ether (MTBE) (d,e)	ppb	ND	ND	5	13	3	Gasoline discharges from watercraft engines
Odor Threshold (f)	TON	2	1	3	NA	1	Naturally occurring organic materials
Silver	ppb	ND	ND	100	NA	10	Industrial discharges
Specific Conductance	µS/cm	350-930/740	510-530/520	1,600	NA	NA	Substances that form ions when in water; seawater influence
Sulfate	ppm	130-160/140	39	500	NA	0.5	Runoff/leaching from natural deposits; industrial wastes
Thiobencarb (d)	ppb	ND	ND	1	70	1	Runoff/leaching from rice herbicide
Total Dissolved Solids	ppm	450-490/470	310-320/315	1,000	NA	NA	Runoff/leaching from natural deposits; seawater influence
Turbidity (Monthly) (a)	NTU	ND	0.1	5	NA	NA	Soil runoff
Zinc	ppm	ND	ND	5.0	NA	0.05	Runoff/leaching from natural deposits; industrial wastes

FEDERAL UNREGULATED CONTAMINANTS MONITORING RULE (UCMR2) (p)

List 1 - Assessment Monitoring

Feb 2009 - Aug 2009 Apr 2009 - Jan 2010

Dimethoate	ppb	ND	ND	NA	NA	0.7	Runoff from insecticide used on crops and residential uses
Terbos sulfone	ppb	ND	ND	NA	NA	0.4	Runoff/leaching from breakdown products of terbufos used as soil fumigant and nematocide
2,2',4,4'-tetrabromodiphenyl ether	ppb	ND	ND	NA	NA	0.3	Discharge from industrial chemical factories; use of flame retardant additives
2,2',4,4',5-pentabromodiphenyl ether	ppb	ND	ND	NA	NA	0.9	Discharge from industrial chemical factories; use of flame retardant additives
2,2',4,4',5,5'-hexabromobiphenyl	ppb	ND	ND	NA	NA	0.7	Discharge from industrial chemical factories; use of flame retardant additives
2,2',4,4',5,5'-hexabromodiphenyl ether	ppb	ND	ND	NA	NA	0.8	Discharge from industrial chemical factories; use of flame retardant additives
2,2',4,4',6-pentabromodiphenyl ether	ppb	ND	ND	NA	NA	0.5	Discharge from industrial chemical factories; use of flame retardant additives
1,3-dinitrobenzene	ppb	ND	ND	NA	NA	0.8	Runoff/residue from explosives, by-product of TNT, used in manufacture of dyes
2,4,6-trinitroluene (TNT)	ppb	ND	ND	NA	NA	0.8	Runoff/residue from explosives, propellants; chemical manufacture of dyes
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	ppb	ND	ND	NA	NA	1.0	Runoff/residue from explosives, fireworks and demolition blocks; used in rodenticide

List 2 - Screening Survey

Feb 2009 - Aug 2009 Apr 2009 - Jan 2010

Acetochlor	ppb	ND	ND	NA	NA	2.0	Herbicide runoff
Alachlor	ppb	ND	ND	NA	NA	2.0	Herbicide runoff
Metolachlor	ppb	ND	ND	NA	NA	1.0	Herbicide runoff from weed control, crops residential uses
Acetochlor ethane sulfonic acid	ppb	ND	ND	NA	NA	1.0	Degradation product of acetochlor
Acetochlor oxanilic acid	ppb	ND	ND	NA	NA	2.0	Degradation product of acetochlor
Alachlor ethane sulfonic acid	ppb	ND	ND	NA	NA	1.0	Degradation product of alachlor
Alachlor oxanilic acid	ppb	ND	ND	NA	NA	2.0	Degradation product of alachlor
Metolachlor ethane sulfonic acid	ppb	ND	ND	NA	NA	1.0	Degradation product of metolachlor
Metolachlor oxanilic acid	ppb	ND	ND	NA	NA	2.0	Degradation product of metolachlor
N-nitrosodiethylamine (NDEA)	ppb	ND	ND	NA	NA	0.005	By-product of drinking water chloramination; industrial processes
N-nitrosodimethylamine (NDMA)	ppb	ND-0.003/ND	ND	NA	NA	0.002	By-product of drinking water chloramination; industrial processes
N-nitroso-di-n-butylamine (NDBA)	ppb	ND	ND	NA	NA	0.004	By-product of drinking water chloramination; industrial processes
N-nitroso-di-n-propylamine (NDPA)	ppb	ND	ND	NA	NA	0.007	By-product of drinking water chloramination; industrial processes
N-nitrosomethylethylamine (NMEA)	ppb	ND	ND	NA	NA	0.003	By-product of drinking water chloramination; industrial processes
N-nitrosopyrrolidine (NPYR)	ppb	ND	ND	NA	NA	0.002	By-product of drinking water chloramination; industrial processes

	WEYMOUTH EFFLUENT		MIRAMAR EFFLUENT		REGULATORY STANDARDS		
	Range/Average	Range/Average	State MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Major Sources in Drinking Water	
SOURCE WATER							
% of State Project Water	7%-99%/46%	95.96%	NA	NA	NA		
% of Groundwater		4.04%					

OTHER PARAMETERS							
Alkalinity	ppm	61-120/95	78-94/86	NA	NA	NA	Measure of water quality
Boron	ppb	130	130-140/135	NL=1,000	NA	100	Runoff/leaching from natural deposits; industrial wastes
Calcium	ppm	45-48/46	28	NA	NA	NA	Measure of water quality
Chlorate (m)	ppb	66	ND	NL=800	NA	20	By-product of drinking water chlorination; industrial processes
Chromium VI (l)	ppb	ND	ND	NA	0.02	1	Industrial waste discharge; could be naturally present as well
Corrosivity (o) (as Aggressiveness Index)	Al	12.1	12.22	NA	NA	NA	Elemental balance in water; affected by temperature, other factors
Corrosivity (n) (as Saturation Index)	SI	0.24-0.32/0.28	0.4	NA	NA	NA	Elemental balance in water; affected by temperature, other factors
Hardness (total)	ppm	80-270/200	110	NA	NA	NA	Measure of water quality
Magnesium	ppm	19-20/20	13	NA	NA	NA	Measure of water quality
pH	pH units	7.9-8.6/8.1	8.2-8.4/8.3	NA	NA	NA	Measure of water quality
Potassium	ppm	3.7-4.1/3.9	2.2-2.9/2.55	NA	NA	NA	Measure of water quality
Radon	pCi/L	ND	NA	NA	NA	100	Naturally occurring, comes from decay of uranium in nearly all soils
Sodium	ppm	74-82/78	57	NA	NA	NA	Measure of water quality
Total organic carbon (TOC)	ppm	1.8-2.6/2.3	1.3-2.1/1.6	TT	NA	0.30	Various natural and man-made sources
Vanadium	ppb	ND	ND-3.1/1.55	NL=50	NA	3	Naturally occurring; industrial waste discharge
N-Nitrosodimethylamine (NDMA)	ppb	ND-2.5	ND	NL=10	3	2	By-product of drinking water chlorination; industrial processes
Dichlorodifluoromethane (Freon 12)	ppb	ND	ND	NL=1,000	NA	0.5	Industrial waste discharge
Ethyl-tert-butyl-ether (ETBE)	ppb	ND	ND	NA	NA	3	Used as gasoline additive
tert-Amyl-methyl-ether (TAME)	ppb	ND	ND	NA	NA	3	Used as gasoline additive
tert-Butyl alcohol (TBA)	ppb	ND	ND	NL=12	NA	2	MTBE breakdown product; used as gasoline additive
Trichloropropane (1,2,3-TCP)	ppb	NC	ND	NL=.005	0.0007	0.005	Industrial waste discharge and pesticide uses

KEY TO ABBREVIATIONS			
AL	= Action level	NR	= Not Required
CFU/ml	= Colony Forming Units per milliliter	NTU	= Nephelometric Turbidity Units
DBP	= Disinfection By-Products	pCi/L	= PicoCuries per liter
DLR	= Detection Limits for Purposes of Reporting	PHG	= Public Health Goal
MCL	= Maximum Contaminant Level	ppb	= parts per billion/micrograms per liter (ug/L)
MCLG	= Maximum Contaminant Level Goal	ppm	= parts per million/milligrams per liter (mg/L)
MFL	= million fibers per liter	ppq	= parts per quadrillion (pg/L)
MRDL	= Maximum Residual Disinfectant Level	ppt	= parts per trillion/nanograms per liter (ng/L)
MRDLG	= Maximum Residual Disinfectant Level Goal	RAA	= Running Annual Average; highest RAA is the highest of all Running Annual Averages calculated as average of all the samples collected within a twelve-month period.
MPN	= Most Probable Number	SI	= Saturation Index (Langelier)
NA	= Not Applicable	TON	= Threshold Odor Number
NC	= Not Collected	TT	= Treatment Technique
ND	= None Detected		
NL	= Notification Level		

- a) The turbidity level of the filtered water shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1.0 NTU at anytime. Turbidity is a measure of the cloudiness of water and is a good indicator of the water quality and filtration performance. The averages and ranges of turbidity shown in the Secondary Standards were based on the treatment plant effluent. Per 2012 Consumer Confidence Report Guidance, the state DLR for turbidity is 0.1 NTU.
- b) Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform positive. Compliance is based on the combined distribution system sampling. In 2012, 8,037 samples were analyzed from MWD (6 samples were positive for total coliforms) and 834 samples were analyzed from TVMWD (1 samples were positive for total coliform). The MCL was not violated.
- c) *E. coli* MCL: The occurrence of two consecutive total coliform-positive samples, one of which contained *E. coli*, constitutes an acute MCL violation. The MCL was not violated.
- d) Aluminum, Thiobencarb, Copper and MTBE have both primary and secondary standards.
- e) MTBE reporting level for MWD is 0.5 ppb.
- f) Metropolitan has developed a flavor-profile analysis method that can more accurately detect odor occurrences. For more information contact TVMWD.
- g) State MCL is 45 mg/L as Nitrate, which equals 10 mg/L as N.
- h) The gross beta particle activity MCL is 4 millirem/year annual dose equivalent to the total body or any internal organ. The screening level is 50 pCi/L.
- i) Standard is for Radium-226 and -228 combined.
- j) MWD and TVMWD were in compliance with all provisions of the State's Fluoridation System Requirements.
- k) As a wholesaler, MWD and TVMWD are not required to collect samples at the consumers' tap under the Lead and Copper Rule.
- l) Chromium VI reporting level for MWD is 0.03 ppb.
- m) In 2012, TVMWD was in compliance with all provisions of the both the Stage 1 and Stage 2 Disinfection/Disinfection By-Products (D/DBP) Rule. From the 4 quarterly distribution samples collected, the running annual average for TTHM was 47.8 ppb and 17.3 ppb for HAA5. Stage 2 of the D/DBPR monitoring began in the 2nd quarter of 2012. Compliance was based on the RAA.
- n) SI measures the tendency for a water to precipitate or dissolve calcium carbonate (a natural mineral in water). Water with SI <-2.0 is highly corrosive and would be corrosive to almost all materials found in a typical water system. SI between -2.0 to 0 indicates a balanced water and SI >0.5 is scale forming.
- o) AI measures the aggressiveness of water transported through pipes. Water with AI <10.0 is highly aggressive and would be very corrosive to almost all materials found in a typical water system. AI ≥ 12.0 indicates non-aggressive water. AI between 10.0 and 11.9 indicates moderately aggressive water.
- p) Minimum reporting levels are as stipulated in the Federal UCMR 2. List 1 - Assessment Monitoring consists of 10 chemical contaminants for which standard analytical methods were available List 2 - Screening Survey consists of 15 contaminants for which new analytical methods were used. All analysis conducted by contract laboratories. Values listed in State DLR column are Federal minimum reporting levels.
- q) Enhanced Coagulation is the optimization of coagulant doses and pH levels to improve precursor removal. If a water system removes specific percentages of TOCs from the source water, its coagulation processes will be considered "enhanced." The levels of finished water TOC removal that are required for a system, based on source water alkalinity and TOC levels, are known as "Step 1." If a conventional filtration plant meets Step 1, they are meeting the TOC removal requirements, practicing enhanced coagulation, and meeting the ultimate goal of the DBP Rule, which is precursor removal.
- r) Data collected (triennially) from four consecutive quarters of monitoring in 2012 and reported for three years until the next samples are collected.
- s) Gross Alpha Beta Particle Activity, Radium 226, Radium 228, Combined Radium and Uranium are required once every nine years. Strontium and Tritium are required annually and Gross Beta is required quarterly on an annual basis.