Three Valleys Municipal Water District 2013 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.

	WEYMOUTH MIRAN			REGULA	TORY STA	NDARDS	
		EFFLUENT Range/Average	EFFLUENT Range/Average	State MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Major Sources in Drinking Water
SOURCE WATER							
% of State Project Water % of Groundwater		0-98%	96.58% 3.42%	NA	NA	NA	
PRIMARY STANDARDS - Man	datory	Health-Related Sta					
CLARITY							
Combined Filter Effluent Turbidity a)	NTU % ≤ 0.3	0.05 (highest) 100%	0.07 (highest) 100%	TT=1 TT (a)	NA	NA	Soil runoff
MICROBIOLOGICAL	/8 ≤ 0.5	10070	10070	(4)			
otal Coliform Bacteria (b)	%	ND - 0.2/ND	N - 1.5/ND	5.0	(0)	NA	Naturally present in the environment
ecal Coliform <i>/E.coli</i> (c)	(c)	distribution system-wide ND	distribution system-wide	(C)	(0)	NA	Human and animal fecal waste
leterotrophic Plate Count (d)	CFU/ mL	distribution system-wide	distribution system-wide	TT	NA	NA	Naturally present in the environment
Sryptosporidium	Oocyst	ND	ND	тт	(0)	NA	Human and animal fecal waste
liardia	200 L Cysts	ND	ND	π	(0)	NA	Human and animal fecal waste
ORGANIC CHEMICALS	200 L						
Pesticides/PCBs	<u>Units</u>	ND	ND		4		Runoff from herbicide used on row crops
	ppb			2	4	1	
trazine	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 grape
Chlordane	ppt	ND	ND	100	30	100	Residue of banned insecticide
,4-D	ppb	ND	ND	70	20	10	Runoff from herbicide used on row crops, range land, lawns
alapon	ppb	ND	ND	200	790	10	Runoff from herbicide used on rights of way, crops and landscapes
ibromochloropropane (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 ar fruits
Diquat	ppb	ND	ND	20	15	4	Runoff from herbicide used for terrestrial and aquatic weeds
ndothall	ppb	ND	ND	100	580	45	Runoff from herbicide used for terrestrial and aquatic weeds
indrin	ppb	ND	ND	2	1.8	0.1	Residue of banned insecticide and rodenticide
thylene dibromide (EDB)	ppt	ND	ND	50	10	20	Discharge from petroleum refineries; underground gas tank leaks
Blyphosate	ppb	ND	ND	700	900	25	Runoff from herbicide use
leptachlor	ppt	ND	ND	10	8	10	Residue of banned insecticide
leptachlor Epoxide	ppt	ND	ND	10	6	10	Breakdown product of heptachlor
indane	ppt	ND	ND	200	32	200	Runoff/leaching from insecticide used on cattle, lumber,
<i>l</i> ethoxychlor	ppb	ND	ND	30	0.09	10	gardens Runoff/leaching from insecticide uses
Iolinate (Ordram)	ppb	ND	ND	20	1	2	Runoff/leaching from herbicide used on rice
Dxamyl (Vydate)	ppb	ND	ND	50	26	20	Runoff/leaching from insecticide uses
entachlorophenol (PCP)	ppb	ND	ND	1	0.3	0.2	Discharge from wood preserving factories & other
licloram	ppb	ND	ND	500	500	1	insecticide uses 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
,4,5-TP (Silvex)	ppb	ND	ND	50	25	1	Residue of banned herbicide
hiobencarb (e)	ppb	ND	ND	70	70	1	Runoff/leaching from herbicide used on rice
oxaphene	ppb	ND	ND	3	0.03	1	
	hhn	ND	ND	5	0.03	ľ	Runoff/leaching from insecticide used on cotton and cat
cemi-Volatile Organic Chemicals crylamide	NA	TT	TT	тт	(0)	NA	Added to water during sewage/wastewater treatment
enzo(a)pyrene	ppt	ND	ND	200	7	100	Leaching from linings of water storage tanks and
i(2-ethylhexyl) adipate	ppb	ND	ND	400	200	5	distribution mains Discharge from chemical factories
)i(2-ethylhexyl) phthalate	ppb	ND	ND	4	12	3	Discharge from chemical factories; inert ingredient in
pichlorohydrin	NA	TT	TT	TT	(0)	NA	pesticides Water treatment chemical impurities
lexachlorobenzene	ppb	ND	ND	1	0.03	0.5	Discharge from metal refineries & agrichemical factories
lexachlorocyclopentadiene	ppb	ND	ND	50	50	1	wastewater chlorination reaction by-product Discharge from chemical factories
is a contraction of the state o	660				50		

Volatile Organic Chemicals							
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
Dichloromethane (methylene	ppb	ND	ND	5	4	0.5	byproduct of TCE/PCE groundwater contamination Discharge from pharmaceutical and chemical factories
chloride) 1,2-Dichloropropane	ppb	ND	ND	5	0.5	0.5	Discharge from industrial chemical factories; primary
1,3-Dichloropropene	ppt	ND	ND	500	200	500	component of some fumigants
Ethylbenzene	ppb	ND	ND	300	300	0.5	Runoff/leaching from nematocide used on croplands Discharge from petroleum refineries; industrial chemical
Methyl- <i>tert</i> -butyl-ether (MTBE)	ppb	ND	ND	13	13	3	factories Leaking underground storage tanks; discharge from
(e,f) Monochlorobenzene	ppb	ND	ND	70	200	0.5	petroleum and chemical factories Discharge from industrial, agricultural chemical factories
Styrene	ppb	ND	ND	100	0.5	0.5	and dry-cleaning facilities Discharge from rubber and plastics factories; leaching
1,1,2,2-Tetrachloroethane		ND	ND	100	0.0	0.5	from landfills Discharge from industrial, agricultural chemical factories;
	ppb						solvent used in productions of TCE Discharge from factories, dry cleaners and auto shops
Tetrachloroethylene (PCE)	ppb	ND	ND	5	0.06	0.5	(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
INORGANIC CHEMICALS				1000			
Aluminum (e)	ppb	95 - 220/180	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
Ashastas							production wastes
Asbestos	MFL	ND	ND	7	7	0.2	Internal corrosion of asbestos cement pipes; erosion of natural deposits
Asbestos Barium	MFL ppb	ND ND	ND ND	7 1000	7 2000		Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
						0.2	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries;
Barium	ppb	ND	ND	1000	2000	0.2 100	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and
Barium Beryllium	ppb ppb	ND ND	ND ND	1000 4	2000 1	0.2 100 1	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural
Barium Beryllium Cadmium	ppb ppb ppb	ND ND ND	ND ND ND	1000 4 5	2000 1 0.04	0.2 100 1 1	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural
Barium Beryllium Cadmium Chromium	ppb ppb ppb ppb	ND ND ND ND	ND ND ND ND	1000 4 5 50	2000 1 0.04 (100)	0.2 100 1 1 10	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives
Barium Beryllium Cadmium Chromium Copper (e, k)	ppb ppb ppb ppb	ND ND ND ND ND 0.7 - 1.0/0.8	ND ND ND ND ND ND 0.15	1000 4 5 50 AL=1.3	2000 1 0.04 (100) 0.3	0.2 100 1 1 10 0.05	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes
Barium Beryllium Cadmium Chromium Copper (e, k) Cyanide	ppb ppb ppb ppb ppm ppb	ND ND ND ND ND ND	ND ND ND ND ND ND	1000 4 5 50 AL=1.3 150	2000 1 0.04 (100) 0.3 150	0.2 100 1 1 10 0.05 100	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural
Barium Beryllium Cadmium Chromium Copper (e, k) Cyanide Fluoride (j)	ppb ppb ppb ppb ppm ppm	ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related)	ND ND ND ND ND ND 0.15 (naturally occurring)	1000 4 5 50 AL=1.3 150 2	2000 1 0.04 (100) 0.3 150 1	0.2 100 1 1 10 0.05 100 0.1	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories;
Barium Beryllium Cadmium Chromium Copper (e, k) Cyanide Fluoride (j) Lead (k)	ppb ppb ppb ppm ppb ppm ppb	ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND	ND ND ND ND ND 0.15 (naturally occurring) ND	1000 4 5 50 AL=1.3 150 2 AL=15	2000 1 0.04 (100) 0.3 150 1 0.2	0.2 100 1 1 10 0.05 100 0.1 5	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories; runoff from landfills Erosion of natural deposits; discharge from metal
Barium Beryllium Cadmium Chromium Copper (e, k) Cyanide Fluoride (j) Lead (k) Mercury	ppb ppb ppb ppb ppm ppb ppb	ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND ND	ND ND ND ND ND 0.15 (naturally occurring) ND ND	1000 4 5 50 AL=1.3 150 2 AL=15 2	2000 1 0.04 (100) 0.3 150 1 0.2 1.2	0.2 100 1 1 0.05 100 0.1 5 1	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories; runoff from landfills Erosion of natural deposits; discharge from metal factories Runoff & leaching from fertilizer use; leaching from
Barium Beryllium Cadmium Chromium Copper (e, k) Cyanide Fluoride (j) Lead (k) Mercury Nickel	ppb ppb ppb ppm ppm ppb ppb ppb	ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND ND ND	ND ND ND ND ND ND 0.15 (naturally occurring) ND ND ND	1000 4 5 50 AL=1.3 150 2 AL=15 2 100	2000 1 0.04 (100) 0.3 150 1 0.2 1.2 12	0.2 100 1 1 10 0.05 100 0.1 5 1 1 10	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories; runoff from landfills Erosion of natural deposits; discharge from metal factories
Barium Beryllium Cadmium Chromium Copper (e, k) Cyanide Fluoride (j) Lead (k) Mercury Nickel Nitrate (as N) (g)	ppb ppb ppb ppm ppm ppb ppb ppb ppb	ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND ND ND ND ND	ND ND ND ND ND ND 0.15 (naturally occurring) ND ND ND ND ND ND ND ND ND 0.45 - 0.64/0.56	1000 4 5 50 AL=1.3 150 2 AL=15 2 100 10	2000 1 0.04 (100) 0.3 150 1 0.2 1.2 12 10	0.2 100 1 1 0 0.05 100 0.1 5 1 1 0 0.4	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories; runoff from landfills Erosion of natural deposits; discharge from metal factories Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits
Barium Beryllium Cadmium Chromium Copper (e, k) Cyanide Fluoride (j) Lead (k) Mercury Nickel Nitrate (as N) (g) Nitrite (as N)	ppb ppb ppb ppm ppb ppb ppb ppb ppb	ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND ND ND 0.5 ND 0.5 ND	ND ND ND ND ND ND ND ND ND 0.15 (naturally occurring) ND	1000 4 5 50 AL=1.3 150 2 AL=15 2 100 10 1 6	2000 1 0.04 (100) 0.3 150 1 0.2 1.2 12 10 1 6	0.2 100 1 1 10 0.05 100 0.1 5 1 10 0.4 0.4 0.4 4	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from metal factories Erosion of natural deposits; discharge from metal factories Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits
Barium Beryllium Cadmium Chromium Copper (e, k) Cyanide Fluoride (j) Lead (k) Mercury Nickel Nitrate (as N) (g) Nitrite (as N) Perchlorate Selenium	ppb ppb ppb ppm ppb ppm ppb ppb ppm ppm	ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND ND ND ND 0.5 ND ND ND ND ND ND	ND ND ND ND ND ND 0.15 (naturally occurring) ND ND ND 0.45 - 0.64/0.56 ND ND ND	1000 4 5 50 AL=1.3 150 2 AL=15 2 100 10 10 1 6 50	2000 1 0.04 (100) 0.3 150 1 0.2 1.2 12 10 1 6 30	0.2 100 1 1 10 0.05 100 0.1 5 1 10 0.4 0.4 4 5	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from metal factories Erosion of natural deposits; discharge from metal factories Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits Internal corrosion of natural deposits CRunoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits Inorganic chemical used in rocket propellant, fireworks, explosives Discharge from petroleum refineries, mines; erosion of natural deposits
Barium Beryllium Cadmium Chromium Copper (e, k) Cyanide Fluoride (j) Lead (k) Mercury Nickel Nitrate (as N) (g) Nitrite (as N) Perchlorate Selenium Thallium	ppb ppb ppb ppm ppb ppb ppb ppb ppb	ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND ND ND 0.5 ND 0.5 ND	ND ND ND ND ND ND ND ND ND 0.15 (naturally occurring) ND	1000 4 5 50 AL=1.3 150 2 AL=15 2 100 10 1 6	2000 1 0.04 (100) 0.3 150 1 0.2 1.2 12 10 1 6	0.2 100 1 1 10 0.05 100 0.1 5 1 10 0.4 0.4 0.4 4	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories; runoff from landfills Erosion of natural deposits; discharge from metal factories Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits Inorganic chemical used in rocket propellant, fireworks, explosives Discharge from petroleum refineries, mines; erosion of
Barium Beryllium Cadmium Chromium Copper (e, k) Cyanide Fluoride (j) Lead (k) Mercury Nickel Nitrate (as N) (g) Nitrite (as N) Perchlorate Selenium	ppb ppb ppb ppm ppb ppm ppb ppb ppm ppm	ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND ND ND ND 0.5 ND ND ND ND ND ND	ND ND ND ND ND ND 0.15 (naturally occurring) ND ND ND 0.45 - 0.64/0.56 ND ND ND	1000 4 5 50 AL=1.3 150 2 AL=15 2 100 10 10 1 6 50	2000 1 0.04 (100) 0.3 150 1 0.2 1.2 12 10 1 6 30 0.1	0.2 100 1 1 10 0.05 100 0.1 5 1 10 0.4 0.4 4 5	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories; runoff from landfills Erosion of natural deposits; discharge from metal factories Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits Inorganic chemical used in rocket propellant, fireworks, explosives Discharge from petroleum refineries, mines; erosion of natural deposits Leaching from ore-processing sites; discharge from
Barium Beryllium Cadmium Chromium Chromium Copper (e, k) Cyanide Tuoride (j) Lead (k) Hercury Mirate (as N) (g) Nitrite (as N) Perchlorate Selenium Challium RADIOLOGICALS	ppb ppb ppb ppm ppb ppb ppb ppb ppb ppb	ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND ND ND 0.5 ND ND ND ND ND ND ND ND (r) ND ND ND	ND ND ND ND ND ND ND ND 0.15 (naturally occurring) ND ND <	1000 4 5 50 AL=1.3 150 2 AL=15 2 100 10 1 6 50 2 15	2000 1 0.04 (100) 0.3 150 1 0.2 1.2 12 10 1 6 30 0.1 (0)	0.2 100 1 1 10 0.05 100 0.1 5 1 10 0.4 0.4 4 5 1 3	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories; runoff from landfills Erosion of natural deposits; discharge from metal factories Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits Inorganic chemical used in rocket propellant, fireworks, explosives Discharge from petroleum refineries, mines; erosion of natural deposits Leaching from ore-processing sites; discharge from electronics factories
Barium Beryllium Cadmium Chromium Chromium Copper (e, k) Cyanide Cyanide (j) Eudride (j) Lead (k) Mercury Cherdie (j) Lead (k) Mercury Nitrite (as N) (g) Nitrite (as N) (g) Nitrite (as N) Perchlorate Selenium Cherdie (j) Cherdie (j) Mercury Nitrite (as N) (g) Nitrite (as N) Perchlorate Selenium Cherdie (j) Cherdie (j) Nitrite (as N) Perchlorate Cherdie (j) Cherdie (j) Mercury Nitrite (as N) Perchlorate Cherdie (j) Cherdie	ppb ppb ppb ppm ppb ppb ppb ppb ppb ppb	ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND ND ND ND ND ND ND ND ND ND (r) ND - 3/ND ND - 6/4	ND ND ND ND ND ND ND ND 0.15 (naturally occurring) ND 2013 9.8 ND - 4.2/ND	1000 4 5 50 AL=1.3 150 2 AL=15 2 100 10 1 6 50 2 15 50	2000 1 0.04 (100) 0.3 150 1 0.2 1.2 12 10 1 6 30 0.1 (0) (0) (0)	0.2 100 1 1 10 0.05 100 0.1 5 1 10 0.4 0.4 4 5 1 3 4	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories; runoff from landfills Erosion of natural deposits; discharge from metal factories Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits Inorganic chemical used in rocket propellant, fireworks, explosives Discharge from petroleum refineries, mines; erosion of natural deposits Leaching from re-processing sites; discharge from electronics factories Erosion of natural deposits Discharge from petroleum refineries, mines; erosion of natural deposits Leaching from re-processing sites; discharge from electronics factories
Barium Baryllium Cadmium Cadmium Chromium Choper (e, k) Cyanide Cyanide Fluoride (j) Lead (k) Mercury Nickel Nitrate (as N) (g) Nitrite (as N) Perchlorate Selenium Challium Challium Challium Challium Chalse Activity (h) Consbined Radium (i)	ppb ppb ppb ppm ppb ppb ppb ppb ppb ppb	ND ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND ND ND 0.5 ND 0.5 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND 0.15 (naturally occurring) ND 2013 9.8 ND ND ND	1000 4 5 50 AL=1.3 150 2 AL=15 2 100 10 1 6 50 2 15 50 5	2000 1 0.04 (100) 0.3 150 1 0.2 1.2 12 10 1 6 30 0.1 (0) (0) (0) (0)	0.2 100 1 1 10 0.05 100 0.1 5 1 10 0.4 0.4 4 5 1 1 3 4 NA	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories; runoff from landfills Erosion of natural deposits; discharge from metal factories Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits Inorganic chemical used in rocket propellant, fireworks, explosives Discharge from petroleum refineries, mines; erosion of natural deposits Leaching from ore-processing sites; discharge from electronics factories Erosion of natural deposits Discharge from petroleum refineries, mines; erosion of natural deposits Leaching from ore-processing sites; discharge from electronics factories Erosion of natural deposits Decay of natural and man-made deposits Erosion of natural and man-made deposits
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BariumBerylliumCadmiumCadmiumChromiumChoper (e, k)CyanideFluoride (j)Lead (k)MercuryNickelNitrite (as N) (g)Nitrite (as N) (g)PerchlorateSeleniumChalliumCross Alpha Particle ActivityGross Beta Particle Activity (n)Combined Radium (i)Radium 226Radium 228	ppb ppb ppb ppm ppb ppb ppb ppb ppb ppb	ND ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND ND ND 0.5 ND 0.5 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND 0.15 (naturally occurring) ND 2013 9.8 ND - 4.2/ND ND ND ND	1000 4 5 50 AL=1.3 150 2 AL=15 2 100 10 10 1 6 50 2 15 50 5 NA NA	2000 1 0.04 (100) 0.3 150 1 0.2 1.2 12 10 1 6 30 0.1 (0) (0) (0) (0) (0) 0.05 0.019	0.2 100 1 1 10 0.05 100 0.1 5 1 10 0.4 0.4 4 5 1 1 3 4 NA 1 1 1	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories; runoff from landfills Erosion of natural deposits; discharge from metal factories Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits Inorganic chemical used in rocket propellant, fireworks, explosives Discharge from petroleum refineries, mines; erosion of natural deposits Leaching from re-processing sites; discharge from electronics factories Erosion of natural deposits Erosion of natural deposits Discharge from petroleum refineries, mines; erosion of natural deposits Leaching from ore-processing sites; discharge from electronics factories Erosion of natural deposits Erosion of natural deposits
BariumBerylliumCadmiumCadmiumChromiumCopper (e, k)CyanideFluoride (j)Lead (k)MercuryNickelNitrate (as N) (g)Nitrite (as N)PerchlorateSeleniumThalliumConss Alpha Particle Activity (h)Gross Beta Particle Activity (h)Cambined Radium (i)Radium 226Stontium-90	ppb ppb ppb ppm ppb ppb ppb ppb ppb ppb	ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND ND ND 0.5 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND 0.15 (naturally occurring) ND ND ND ND ND 0.45 - 0.64/0.56 ND ND <td< td=""><td>1000 4 5 50 AL=1.3 150 2 AL=15 2 100 10 1 6 50 2 15 50 5 NA NA 8</td><td>2000 1 0.04 (100) 0.3 150 1 0.2 1.2 12 10 1 6 30 0.1 (0) (0) (0) (0) (0) 0.05 0.019 0.35</td><td>0.2 100 1 1 10 0.05 100 0.1 5 1 10 0.4 0.4 4 5 1 1 3 4 NA 1 1 2</td><td>Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories; runoff from landfills Erosion of natural deposits; discharge from metal factories Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits Inorganic chemical used in rocket propellant, fireworks, explosives Discharge from petroleum refineries, mines; erosion of natural deposits Leaching from ore-processing sites; discharge from electronics factories Erosion of natural and man-made deposits Erosion of natural deposits Erosion of natural deposits Decay of natural deposits Erosion of natural deposits Erosion of natural deposits Erosion of natural deposits Erosion of natural deposits Decay of natural and man-made deposits Erosion of natural deposits Erosion of natural deposits</td></td<>	1000 4 5 50 AL=1.3 150 2 AL=15 2 100 10 1 6 50 2 15 50 5 NA NA 8	2000 1 0.04 (100) 0.3 150 1 0.2 1.2 12 10 1 6 30 0.1 (0) (0) (0) (0) (0) 0.05 0.019 0.35	0.2 100 1 1 10 0.05 100 0.1 5 1 10 0.4 0.4 4 5 1 1 3 4 NA 1 1 2	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories; runoff from landfills Erosion of natural deposits; discharge from metal factories Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits Inorganic chemical used in rocket propellant, fireworks, explosives Discharge from petroleum refineries, mines; erosion of natural deposits Leaching from ore-processing sites; discharge from electronics factories Erosion of natural and man-made deposits Erosion of natural deposits Erosion of natural deposits Decay of natural deposits Erosion of natural deposits Erosion of natural deposits Erosion of natural deposits Erosion of natural deposits Decay of natural and man-made deposits Erosion of natural deposits Erosion of natural deposits
BariumBerylliumCadmiumCadmiumChromiumChoper (e, k)CyanideFluoride (j)Lead (k)MercuryNickelNitrite (as N) (g)Nitrite (as N) (g)PerchlorateSeleniumChalliumCross Alpha Particle ActivityGross Beta Particle Activity (n)Combined Radium (i)Radium 226Radium 228	ppb ppb ppb ppm ppb ppb ppb ppb ppb ppb	ND ND ND ND ND ND ND 0.7 - 1.0/0.8 (treatment related) ND ND ND 0.5 ND 0.5 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND 0.15 (naturally occurring) ND 2013 9.8 ND - 4.2/ND ND ND ND	1000 4 5 50 AL=1.3 150 2 AL=15 2 100 10 10 1 6 50 2 15 50 5 NA NA	2000 1 0.04 (100) 0.3 150 1 0.2 1.2 12 10 1 6 30 0.1 (0) (0) (0) (0) (0) 0.05 0.019	0.2 100 1 1 10 0.05 100 0.1 5 1 10 0.4 0.4 4 5 1 1 3 4 NA 1 1 1	Internal corrosion of asbestos cement pipes; erosion of natural deposits Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits Discharge from metal refineries; electrical, aerospace and defense industries Internal corrosion of galvanized pipes; erosion of natural deposits; runoff from waste batteries and paints Discharge from steel and pulp mills and chrome plating; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits; leaching from wood preservatives Discharge from steel/metal, plastic and fertilizer factories Erosion of natural deposits; water additive that promotes strong teeth Internal corrosion of household pipes erosion of natural deposits Erosion of natural deposits; discharge from factories; runoff from landfills Erosion of natural deposits; discharge from metal factories Runoff & leaching from fertilizer use; leaching from sewage; erosion of natural deposits Inorganic chemical used in rocket propellant, fireworks, explosives Discharge from petroleum refineries, mines; erosion of natural deposits Leaching from re-processing sites; discharge from electronics factories Erosion of natural deposits Erosion of natural deposits Discharge from petroleum refineries, mines; erosion of natural deposits Leaching from ore-processing sites; discharge from electronics factories Erosion of natural deposits Erosion of natural deposits

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

Total Trihalomethanes (TTHM) (m)	ppb	12 - 60/58	36.20 - 78.7/48.06	80	NA	1	By-product of drinking water disinfection
		Distribution system-wide	Distribution system-wide				

Haloacetic Acids (HAA5) (m)	ppb	ND - 22/18 Distribution system-wide	4.01 - 26.5/16.3 Distribution system-wide	60	NA	1	By-product of drinking water disinfection
Total Chlorine Residual	ppm	ND - 2.9/2.3	2.53 - 2.73/2.66	[4.0]	[4.0]	NA	Drinking water disinfectant added for treatment
		Distribution system-wide	Distribution system-wide				
DBP Precursor Control (TOC) (q)	ppm	TT	1.27	TT	NA	0.30	Various natural and man-made sources

SECONDARY STANDARDS - A	Aesthei	tic Standards					
Aluminum (e)	ppb	95 - 220/180	ND	200	600	50	Residue from water treatment processes; natural deposits, erosion
Chloride	ppm	84 - 91/88	76	500	NA	NA	Runoff/leaching from natural deposits; seawater influence
Color	units	1	ND	15	NA	NA	Naturally occurring organic materials
Copper (e, 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) (e,f)	ppb	ND	ND	5	13	3	Gasoline discharges from watercraft engines
Odor Threshold (s)	TON	3 - 6/4	1	3	NA	1	Naturally occurring organic materials
Silver	ppb	ND	ND	100	NA	10	Industrial discharges
Specific Conductance	µS/cm	850 - 890/870	540	1,600	NA	NA	Substances that form ions when in water; seawater influence
Sulfate	ppm	170 - 190/180	51	500	NA	0.5	Runoff/leaching from natural deposits; industrial wastes
Thiobencarb (e)	ppb	ND	ND	1	70	1	Runoff/leaching from rice herbicide
Total Dissolved Solids	ppm	<u>520 - 540/530</u>	320	1,000	NA	NA	Runoff/leaching from natural deposits; seawater influence
Turbidity (Monthly) (a)	NTU	ND	0.03 - 0.08/0.04	5	NA	NA	Soil runoff
Zinc	ppm	ND	ND	5.0	NA	0.05	Runoff/leaching from natural deposits; industrial wastes
FEDERAL UNREGULATED CO	ONTAN		-	2) (p)			reanonneaching nonn natural deposito, industrial wastes
List 1 - Assessment Monitoring Dimethoate	ppb	Feb 2009 - Aug 2009 ND	Apr 2009 - Jan 2010 ND	NA	NA	0.7	Runoff from insecticide used on crops and residential
Terbos sulfone	ppb	ND	ND	NA	NA	0.4	uses Runoff/leaching from breakdown products of terbufos
2,2',4,4'-tetrabromodiphenyl ether	ppb	ND	ND	NA	NA	0.3	used as soil fumigant and nematocide Discharge from industrial chemical factories; use of flame
2,2',4,4',5-pentabromodiphenyl	ppb	ND	ND	NA	NA	0.9	retardant additives Discharge from industrial chemical factories; use of flame
ether 2,2'4,4'5,5'-hexabromobiphenyl	ppb	ND	ND	NA	NA	0.7	retardant additives Discharge from industrial chemical factories; use of flame
2,2',4,4',5,5'-hexabromodiphenyl	ppb	ND	ND	NA	NA	0.8	retardant additives Discharge from industrial chemical factories; use of flame
ether 2,2',4,4',6-pentabromodiphenyl	ppb	ND	ND	NA	NA	0.5	retardant additives Discharge from industrial chemical factories; use of flame
ether 1,3-dinitrobenzene	ppb	ND	ND	NA	NA	0.8	retardant additives Runoff/residue from explosives, by-product of TNT, used
2,4,6-trinitroluene (TNT)	ppb	ND	ND	NA	NA	0.8	in manufacture of dyes Runoff/residue from explosives, propellants; chemical
Hexahydro-1,3,5-trinitro-1,3,5-	ppb	ND	ND	NA	NA	1.0	manufacture of dyes Runoff/residue from explosives, fireworks and demolition
triazine (RDX)							blocks; used in rodenticide
List 2 - Screening Survey Acetochlor	ppb	Feb 2009 - Aug 2009 ND	Apr 2009 - Jan 2010 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	
Acetochlor ethane sulfonic acid	ppb	ND	ND	NA	NA	1.0	Herbicide runoff from weed control, crops residential uses 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
N-nitrosodimethylamine (NDEA)	ppb	ND-0.003/ND	ND	NA	NA	0.003	processes By-product of drinking water chloramination; industrial
N-nitroso-di-n-butylamine (NDBA)		ND-0.003/ND	ND	NA	NA	0.002	By-product of drinking water chloramination; industrial
N-nitroso-di-n-propylamine (NDPA)	ppb	ND	ND	NA	NA	0.004	processes By-product of drinking water chloramination; industrial
N-nitroso-di-n-propylamine (NDPA)	ppb	ND	ND	NA	NA	0.007	processes By-product of drinking water chloramination; industrial
N-nitrosometnyletnylamine (NMEA)	ppb	ND	ND	NA	NA	0.003	processes By-product of drinking water chloramination; industrial
	ppb			NA.	NA .	0.002	processes

OTHER PARAMETERS									
Alkalinity	ppm	110	86 - 92/88	NA	NA	NA	Measure of water quality		
Boron	ppb	150	210	NL=1,000	NA	100	Runoff/leaching from natural deposits; industrial wastes		
Calcium	ppm	<u>56 - 61/58</u>	31	NA	NA	NA	Measure of water quality		
Chlorate	ppb	62	ND	NL=800	NA	20	By-product of drinking water chlorination; industrial processes		
Chromium VI (I)	ppb	ND	ND	NA	0.02	1	Industrial waste discharge; could be naturally present as well		
Corrosivity (o) (as Aggressiveness Index)	AI	12.3	12.08 - 12.25/12.17	NA	NA	NA	Elemental balance in water; affected by temperature, other factors		
Corrosivity (n) (as Saturation Index)	SI	0.35 - 0.45/0.40	0.26-1.8/0.65	NA	NA	NA	Elemental balance in water; affected by temperature, other factors		
Hardness (total)	ppm	230 - 250/240	120	NA	NA	NA	Measure of water quality		
Magnesium	ppm	21 - 23/22	12	NA	NA	NA	Measure of water quality		
pН	pH units	8.1	8.3 - 8.53/8.41	NA	NA	NA	Measure of water quality		
Potassium	ppm	4.0 - 4.3-4.2	1.3 - 2.6/1.95	NA	NA	NA	Measure of water quality		
Radon	pCi/L	ND	NR	NA	NA	100	Naturally occurring, comes from decay of uranium in nearly all soils		
Sodium	ppm	79 - 85/82	58	NA	NA	NA	Measure of water quality		
Total organic carbon (TOC)	ppm	21 - 2.7-2.4	1.2 - 2.4/1.9	TT	NA	0.30	Various natural and man-made sources		
Vanadium	ppb	3.0	3.4	NL=50	NA	3	Naturally occurring; industrial waste discharge		
N-Nitrosodimethylamine (NDMA)	ppb	ND	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		liter	NTU	= Nephelometr	ic Turbidity Unit	ts			
DBP = Disinfection By-Produ	cts		pCi/L	= PicoCuries per liter					
DLR = Detection Limits for P	urposes	of Reporting	PHG	= Public Health Goal					
MCL = Maximum Contaminar	nt Level		ppb	= parts per billion/micrograms per liter (ug/L)					
MCLG = Maximum Contaminar	nt 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 Di			ppt	= parts per trilli	on/nanograms	per liter (ng/L)			
MRDLG = Maximum Residual Di	sinfecta	nt Level Goal	RAA				the highest of all Running Annual Averages calculated as		
MPN = Most Probable Number	er			average of all the samples collected within a twelve-month period.					
NA = Not Applicable			Si	= Saturation In	dex (Langelier)				
NC = Not Collected			TON	= Threshold Odor Number					
ND = None Detected			TT	= Treatment Te	chnique				
NL = Notification Level									
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.									

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 2013, 7,981 b) samples were analyzed from MWD (3 samples were positive for total coliform) and 838 samples were analyzed from TVMWD (2 samples were positive for total coliform). The MCL was not violated.

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. c) All distribution system samples collected had detectable total chlorine residuals and no HPC was required. HPC reporting level is 1 CFU/ml. Values are based on monthly median per State guidelines and recommendations. d)

Aluminum, Thiobencarb, Copper and MTBE have both primary and secondary standards.

MTBE reporting level for MWD is 0.5 ppb. f)

e)

i)

j)

k)

I)

m)

g) State MCL is 45 mg/L as Nitrate, which equals 10 mg/L as N. h)

CDPH considers 50 pCi/L to be the level of concern for beta particles; the gross beta particle activity MCL is 4 millirem/year annual dose equivalent to the total body of any internal organ. State MCL is 5 pCi/L for Radium-226 and -228 combined.

MWD and TVMWD were in compliance with all provisions of the State's Fluoridation System Requirements.

As a wholesaler, MWD and TVMWD are not required to collect samples at the consumers' tap under the Lead and Copper Rule.

Chromium VI reporting level (action level) for MWD is 0.03 ppb.

In 2013, 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 46.85 ppb and 15.55 ppb for HAA5. Stage 2 of the D/DBPR monitoring began in the 2nd quarter of 2012. Compliance was based on the RAA

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 n) materials found in a typical water system. SI between -2.0 to 0 indicates a balanced water and SI >0.5 is scale forming.

Al measures the aggressiveness of water transported through pipes. Water with Al <10.0 is highly aggressive and would be very corrosive to almost all materials found in a typical water system. Al ≥ 12.0 indicates non-aggressive water. Al between 10.0 and 11.9 indicates moderately aggressive water. o)

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 p) 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.

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 q) 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. Data collected (triennially) from four consecutive quarters of monitoring in 2011 and reported for three years until the next samples are collected. r)

In April 2013, the Weymouth plant effluent TON exceeded the secondary MCL of 3 TON. Per CDPH requirements, quarterly monitoring was conducted following the secondary MCL s)