



Revised 1/8/2010

COMPREHENSIVE WATER ANALYSIS 2009

<u>PARAMETER</u>	<u>YWC SAMPLE</u>	<u>EPA/DEP DRINKING WATER STANDARDS</u>
<u>Primary Inorganics</u> (Results in PPM) ¹		
Antimony	<0.003	0.006
Arsenic	<0.003	0.05
Barium	0.020	2.00
Beryllium	<0.001	0.004
Cadmium	<0.0005	0.005
Chromium	<0.02	0.10
Cyanide (total)	<0.01	0.20
Fluoride ⁶	<0.50	4.00
Lead (customer tap)	0.002	0.015
	(90th percentile)	(action level) ⁴
Lead (distribution system)	<0.001	0.005
Mercury	<0.0005	0.002
Nickel	<0.03	0.10
Nitrate Nitrogen	4.8	10.0
Nitrite Nitrogen	0.0	1.0
Total Nitrate & Nitrite	4.80	10.00
Selenium	<0.005	0.05
Thallium	<0.001	0.002
Turbidity	0.033	0.30
<u>Herbicides/Pesticides/SOC's</u> (Results in PPM) ¹		
Alachlor	N.D.	0.002
Atrazine	N.D.	0.003
Benzo (a) Pyrene	N.D.	0.0002
Carbofuran	N.D.	0.04
Chlordane	N.D.	0.002
Dibromochloropropane (DBCP)	N.D.	0.0002
Di (2-Ethylhexyl) Adipate	N.D.	0.4
Di (2-Ethylhexyl) Phthalate	N.D.	0.006
Dinoseb	N.D.	*
Endothall	N.D.	0.1
Endrin	N.D.	0.2
Ethylene Dibromide (EDB)	N.D.	0.00005
Hexachlorocyclopentadiene	N.D.	0.05
Lindane	N.D.	0.0002
Methoxychlor	N.D.	0.04
Oxamyl	N.D.	0.2
Pentachlorophenol	N.D.	0.001
Picloram	N.D.	0.5
Simazine	N.D.	0.004
2,4-D	N.D.	0.07

<u>PARAMETER</u>	<u>YWC SAMPLE</u>	<u>EPA/DEP DRINKING WATER STANDARDS</u>
<u>Haloacetic Acids (Results in PPB)²</u>		
First Quarter 2009	N.D.	60.0
Second Quarter 2009	N.D.	60.0
Third Quarter 2009	1.1	60.0
Fourth Quarter 2009	N.D.	60.0
<u>Total Trihalomethanes (Results in PPB)²</u>		
First Quarter 2009	12.8	80.00
Second Quarter 2009	19.7	80.00
Third Quarter 2009	23.4	80.00
Fourth Quarter 2009	15.7	80.00
<u>Radiological Characteristics (Results in PCi/L)³</u>		
Gross Alpha	0.1 (±1.3)	<15.0
Gross Beta	1.3 (±2.5)	<50.0
Tritium	0.0 (±440)	20,000
Strontium-90	0.1 (±0.4)	<8.0
Radium-226	0.1 (±0.1)	<5.0
Radium-228	0.2 (±0.7)	<5.0
<u>Microbiological (Results in units)</u>		
Coliform Bacteria (% of positive samples) ⁵	<0.1%	5.0%
Number of Acute Violations	0	0
Heterotrophic Plate Count (Bac/ml) ⁵	3.14	500.0
<u>Regulated Volatile Organic Chemicals (Results in PPM)¹</u>		
Benzene	N.D.	0.005
Carbon Tetrachloride	N.D.	0.005
1,2-Dichloroethane	N.D.	0.005
o-Dichlorobenzene	N.D.	0.6
p-Dichlorobenzene	N.D.	0.075
1,1-Dichloroethylene	N.D.	0.007
cis-1,2-Dichloroethylene	N.D.	0.07
trans-1,2-Dichloroethylene	N.D.	0.1
Dichloromethane	N.D.	0.005
1,2-Dichloropropane	N.D.	0.005
Ethylbenzene	N.D.	0.7
Monochlorobenzene	N.D.	0.1
Styrene	N.D.	0.1
Tetrachloroethylene	N.D.	0.005
Toluene	N.D.	1.0
1,2,4-Trichlorobenzene	N.D.	0.07
1,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.005
Trichloroethylene	N.D.	0.005
Vinyl Chloride	N.D.	0.002
Xylenes (Total)	N.D.	10.0

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<u>Unregulated Contaminant Monitoring (Results in PPB)²</u>		
Nitrosodimethylamine	0.0032	*
Nitrosomethylethylamine	<0.003	*
Nitrosodiethylamine	<0.005	*
Nitrosopyrrolidine	<0.002	*
Nitroso-Di-N-Propylamine	<0.007	*
Nitroso-Di-N-Butylamine	<0.004	*
Acetochlor	<1.0	*
Alachlor	<1.0	*
Metalachlor	<1.0	*
Dimethoate	<0.70	*
Terbufos Sulfone	<0.40	*
BDE-47	<0.30	*
BDE-99	<0.90	*
BDE-100	<0.50	*
BDE-153	<0.80	*
245-HBB	<0.70	*
1,3-Dinitrobenzene	<0.80	*
RDX	<0.80	*
2,4,6-Trinitrotoluene (TNT)	<0.80	*
Acetochlor ESA	<1.0	*
Acetochlor OA	<1.0	*
Alachlor ESA	<1.0	*
Alachlor OA	<1.0	*
Metolachlor ESA	1.33	*
Metolachlor OA	<1.0	*
<u>Secondary Inorganics (Results in PPM)¹</u>		
Alkalinity	45.5	*
Aluminum	<0.15	*
Calcium	25.0	*
Chloride	27.0	250.0
Conductivity	227.0 Micromohs	*
Color	0.0	15.0
Copper (customer tap)	0.07	1.350
	(90th percentile)	(action level) ⁴
Copper (distribution system)	<0.001	1.00
Corrosivity (Langlier Index)	0.0	>0.0
Hardness	84.0	*
Total Iron	0.022	0.30
Magnesium	6.8	*
Manganese	0.013	0.05
Total Phosphorus	<0.02	*
pH Value	8.34	7.4 - 8.6
Sodium	12.0	20.0
Sulfate	22.0	250.0
Surfactants (MBAS)	<0.05	0.50
Total Dissolved Solids	170.0	500.0
Zinc	<0.02	5.0

Notes

> Greater than

< Less than

N.D. Not detected

* No EPA/DEP Standard at present time

¹ Part per million = 1 milligram per liter

² Part per billion = 1 microgram per liter

³ Part per trillion = 1 picocurie per liter

⁴ Action level = 90% of tier 1 tap samples must meet the stated action levels for lead and copper.

~ Lead 0.015 mg/L at customer tap after minimum 6 hr. residence.

~ Copper 1.350 mg/L at customer tap after minimum 6 hr. residence.

~ Lead 0.005 mg/L in distribution system.

⁵ Based on 2,417 distribution tap samples collected during 2009.

(DEP requires minimum 1,440 samples).

⁶ West Manheim Township customers only: Fluoride average sample: 1.15 PPM.