

PILOT PLANT: **SOURCE WATER QUALITY**
Voluntary Monitoring Results
January - December 2007

Definitions & Terms

Substance	Units	Minimum	Average	Maximum	Finished Water MCL
Metals					
Antimony	PPB	ND	ND	ND	6
Arsenic	PPB	2	3	5	10 a
Barium	PPM	ND	0.16	0.30	2
Beryllium	PPB	1	1	1	4
Chromium	PPB	1	5	15	100
Iron	PPM	0.7	2.4	11.2	0.3 b
Manganese	PPM	ND	ND	ND	0.05 b
Mercury	PPB	ND	ND	ND	2
Nickel	PPB	ND	2	20	100
Selenium	PPB	ND	ND	ND	50
Thallium	PPB	ND	ND	ND	2
Minerals					
Fluoride	PPM	0.3	0.4	0.5	4.0
Nutrients					
Nitrate	PPM as N	ND	ND	ND	10
General Chemistry					
Alkalinity	PPM as CaCO ₃	96	121	175	~
Bicarbonate	PPM as CaCO ₃	95	129	169	~
Calcium	PPM	37	45	74	~
Chloride	PPM	6	11	16	250 b
Hardness	grains/gallon	3.8	7.3	9.6	~
Magnesium	PPM	6.5	7.5	12.3	~
Potassium	PPM	3	3	7	~
Silica	PPM as SiO ₂	18	37	102	~
Sodium	PPM	18	22	30	~
Sulfate	PPM	33	50	61	250 b
Total Dissolved Solids	PPM	228	277	366	500 b
Conductance	micromhos/cm	283	345	403	~
pH	Standard Units	7.8	8.3	8.9	6.5-8.5 b
Temperature	Fahrenheit	41	62	83	~

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Radiological					
Gross-Alpha w/Americium-241 Reference	pCi/L	ND	4	20	3
Gross-Alpha Uranium-Natural Reference	pCi/L	ND	5	29	3
Gross-Beta w/Cesium-137 Reference	pCi/L	4	8	28	50 c
Gross-Beta w/Strontium/Y-90 Reference	pCi/L	4	8	26	50 c
Radium 226	pCi/L	ND	ND	1	1
Radium 228	pCi/L	ND	ND	2	1
Uranium 238	PPB	2	3	3	30

Organics

Base/Neutral Semi-Volatiles by Gas Chromatography/Mass Spectrometry					
Acenaphthene	PPB	ND	ND	ND	~
Acenaphthylene	PPB	ND	ND	ND	~
Alachlor	PPB	ND	ND	ND	~
Aldrin	PPB	ND	ND	ND	~
Aniline	PPB	ND	ND	ND	~
Anthracene	PPB	ND	ND	ND	~
Atrazine	PPB	ND	ND	ND	~
Azobenzene	PPB	ND	ND	ND	~
Benzidine	PPB	ND	ND	ND	~
Benzo(a)Anthracene	PPB	ND	ND	ND	~
Benzo(b)Fluoranthene	PPB	ND	ND	ND	~
Benzo(k)Fluoranthene	PPB	ND	ND	ND	~
Benzo(g,h,i) Perylene	PPB	ND	ND	ND	~
Benzo(a)Pyrene	PPB	ND	ND	ND	~
Alpha-BHC	PPB	ND	ND	ND	~
Beta-BHC	PPB	ND	ND	ND	~
Delta-BHC	PPB	ND	ND	ND	~
Gamma-BHC (Lindane)	PPB	ND	ND	ND	~
bis(2-Chloroethoxy)Methane	PPB	ND	ND	ND	~
bis(2-Chloroethyl)Ether	PPB	ND	ND	ND	~
bis(2-Chloroisopropyl)ether	PPB	ND	ND	ND	~
bis(2-Ethylexyl)Adipate	PPB	ND	ND	ND	~

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bis(2-Ethylhexyl)Pthalate	PPB	ND	ND	ND	~
4-Bromophenyl Phenyl Ether	PPB	ND	ND	ND	~
Butylbenzyl Phthalate	PPB	ND	ND	ND	~
Carbazole	PPB	ND	ND	ND	~
Chlordane	PPB	ND	ND	ND	2
4-ChloroAniline	PPB	ND	ND	ND	~
2-ChloroNapthalene	PPB	ND	ND	ND	~
4-Chlorophenyl Phenyl Ether	PPB	ND	ND	ND	~
Chrysene	PPB	ND	ND	ND	~
Cyanazine	PPB	ND	ND	ND	~
4,4'-DDD	PPB	ND	ND	ND	~
4,4'-DDE	PPB	ND	ND	ND	~
4,4'-DDT	PPB	ND	ND	ND	~
Dibenz(a,h)Antracene	PPB	ND	ND	ND	~
Dibenzofuran	PPB	ND	ND	ND	~
Di-n-Butyl Phthalate	PPB	ND	ND	ND	~
1,2-Dichlorobenze	PPB	ND	ND	ND	~
1,3-Dichlorobenzene	PPB	ND	ND	ND	~
1,4-Dichlorobenzene	PPB	ND	ND	ND	~
3,3'-Dichlorobenzidine	PPB	ND	ND	ND	~
Dieldrin	PPB	ND	ND	ND	~
Diethylphthalate	PPB	ND	ND	ND	~
2,4-Dimethylphenol	PPB	ND	ND	ND	~
Dimethylphthalate	PPB	ND	ND	ND	~
1,2-Dinitrobenzene	PPB	ND	ND	ND	~
1,3-Dinitrobenzene	PPB	ND	ND	ND	~
1,4-Dinitrobenzene	PPB	ND	ND	ND	~
2,4-Dinitrotolulene	PPB	ND	ND	ND	~
2,6-Dinitrotolulene	PPB	ND	ND	ND	~
Di-n-Octyl Phthalate	PPB	ND	ND	ND	~
Endosulfan I	PPB	ND	ND	ND	~
Endosulfan II	PPB	ND	ND	ND	~
Endosulfan Sulfate	PPB	ND	ND	ND	~
Endrin	PPB	ND	ND	ND	~

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Endrin Aldehyde	PPB	ND	ND	ND	~
Endrin Ketone	PPB	ND	ND	ND	~
Fluroranthene	PPB	ND	ND	ND	~
Fluorene	PPB	ND	ND	ND	~
Heptachlor	PPT	ND	ND	ND	400
Heptachlor Epoxide	PPB	ND	ND	ND	~
Hexachlorobenze	PPB	ND	ND	ND	~
Hexachlorobutadiene	PPB	ND	ND	ND	~
Hexachlorocyclopentadiene	PPB	ND	ND	ND	~
Hexachloroethane	PPB	ND	ND	ND	~
Indeno(1,2,3-CD) Pyrene	PPB	ND	ND	ND	~
Isophorone	PPB	ND	ND	ND	~
Methoxychlor	PPB	ND	ND	ND	40
1-Methylnaphthalene	PPB	ND	ND	ND	~
2-Methylnaphthalene	PPB	ND	ND	ND	~
Metolachlor	PPB	ND	ND	ND	~
Metribuzin	PPB	ND	ND	ND	~
Naphthalene	PPB	ND	ND	ND	~
2-Nitroaniline	PPB	ND	ND	ND	~
3-Nitroaniline	PPB	ND	ND	ND	~
4-Nitroaniline	PPB	ND	ND	ND	~
Nitrobenzene	PPB	ND	ND	ND	~
N-Nitrosodimethylamine	PPB	ND	ND	ND	~
N-Nitrosodiphenylamine	PPB	ND	ND	ND	~
N-Nitroso-di-n-Propylamine	PPB	ND	ND	ND	~
Phenanthrene	PPB	ND	ND	ND	~
Prometryne	PPB	ND	ND	ND	~
Pyrene	PPB	ND	ND	ND	~
Pyridine	PPB	ND	ND	ND	~
Simazine	PPB	ND	ND	ND	4
1,2,4-Trichlorobenzene	PPB	ND	ND	ND	~
Volatiles by Gas Chomatography/Mass Spectrometry					
Benzene	PPB	ND	ND	ND	5
Bromobenzene	PPB	ND	ND	ND	~

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Bromochloromethane	PPB	ND	ND	ND	~
Bromomethane	PPB	ND	ND	ND	~
2-Butanone (MEK)	PPB	ND	1.1	14.3	~
n-Butylbenzene	PPB	ND	ND	ND	~
sec-Butylbenzene	PPB	ND	ND	ND	~
tert-Butylbenzene	PPB	ND	ND	ND	~
tert-Butyl Methyl ether (MTBE)	PPB	ND	ND	ND	~
Carbon Tetrachloride	PPB	ND	ND	ND	5
Chlorobenzene	PPB	ND	ND	ND	100
Chloroethane	PPB	ND	ND	ND	5
Chloromethane	PPB	ND	ND	ND	~
2-Chlorotoluene	PPB	ND	ND	ND	~
4-Chlorotoluene	PPB	ND	ND	ND	~
1,2-Dibromo-3-Chloropropane (DBCP)	PPB	ND	ND	ND	~
1,2-Dibromoethane (EDB)	PPB	ND	ND	ND	~
Dibromomethane	PPB	ND	ND	ND	~
1,2-Dichlorobenzene	PPB	ND	ND	ND	~
1,3-Dichlorobenzene	PPB	ND	ND	ND	~
1,4-Dichlorobenzene	PPB	ND	ND	ND	~
Dichlorodifluoromethane	PPB	ND	ND	ND	~
1,1-Dichloroethane	PPB	ND	ND	ND	~
1,2-Dichloroethane	PPB	ND	ND	ND	5
1,1-Dichloroethene	PPB	ND	ND	ND	~
cis-1,2-Dichloroethene	PPB	ND	ND	ND	~
trans-1,2-Dichloroethene	PPB	ND	ND	ND	~
1,2-Dichloropropane	PPB	ND	ND	ND	5
1,3-Dichloropropane	PPB	ND	ND	ND	~
2,2-Dichloropropane	PPB	ND	ND	ND	~
1,1-Dichloropropene	PPB	ND	ND	ND	~
cis-1,3-Dichloropropene	PPB	ND	ND	ND	~
trans-1,3-Dichloropropene	PPB	ND	ND	ND	~
Ethylbenzene	PPB	ND	ND	ND	700
Hexachlorobutadiene	PPB	ND	ND	ND	~
Iso-Propylbenzene	PPB	ND	ND	ND	~

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4-Isopropyltoluene	PPB	ND	ND	ND	~
Methylene Chloride	PPB	ND	0.7	9.6	d
Naphthalene	PPB	ND	ND	ND	~
Nitrobenzene	PPB	ND	ND	ND	~
Propylbenzene	PPB	ND	ND	ND	~
Stryene	PPB	ND	ND	ND	~
1,1,1,2-Tetrachloroethane	PPB	ND	ND	ND	~
1,1,2,2-Tetrachloroethane	PPB	ND	ND	ND	~
Tetrachloroethene	PPB	ND	ND	ND	~
Tetrahydrofuran (THF)	PPB	ND	ND	ND	~
Toluene	PPB	ND	ND	ND	1
1,2,3-Trichlorobenzene	PPB	ND	ND	ND	~
1,2,4-Trichlorobenzene	PPB	ND	ND	ND	70
1,1,1-Trichloroethane	PPB	ND	ND	ND	200
1,1,2-Trichloroethane	PPB	ND	ND	ND	5
Trichloroethene	PPB	ND	ND	ND	5
Trichlorofluoromethane	PPB	ND	ND	ND	~
1,2,3-Trichloropropane	PPB	ND	ND	ND	~
1,2,4-Trimethylbenzene	PPB	ND	ND	ND	~
1,3,5-Trimethylbenzene	PPB	ND	ND	ND	~
Vinyl Chloride	PPB	ND	ND	ND	2
Xylenes(Total)	PPB	ND	ND	ND	10

Substance	Units	Minimum	Average	Maximum	Finished Water MCL
a - These arsenic values are effective December 31, 2008. Until then, the MCL is 50 PPB and there is no MCLG. See Health Effects Language at www.abcwua.org .					
b - Represents the USEPA Secondary Contaminant Level (SMCL). Secondary Drinking Water Standards are unenforceable federal guidelines regarding taste, odor, color and certain other non-aesthetic effects of drinking water. EPA recommends them as reasonable goals, but federal law does not require water systems to comply with them.					
c - EPA considers 50 picoCuries/Liter to be the level of concern for beta particles.					
d - This substance was found in the travel blank which indicates possible contamination of sample at time of analysis.					