

Portland Water District Analysis of Water Supplies

(as sampled on 02/26/2014 unless otherwise noted)

Constituent	Units	Greater Portland Untreated	Greater Portland Treated	Windham Town Office (Distribution)	Steep Falls Untreated	Steep Falls Treated	MCL (for comparison only) ⁴
Physical							
Color	SU	5	<5	<5	<5	5	15
Conductivity ¹	µS	47	63	NA	193	183	**
Total Residue	mg/L	77	53	84	126	97	500
Turbidity ²	NTU	0.20	0.25	0.25	0.1	0.1	1
Inorganic Non-metals							
Residual chlorine ³	mg/L	NA	2.4	1.8	NA	1.12	4
Alkalinity(as CaCO ₃)	mg/L	5.6	8.6	9.9	17.4	23.4	**
Carbon dioxide	mg/L	2.1	0.35	0.98	20.4	2.4	**
Ammonia – N	mg/L	<0.01	0.62	0.49	<0.01	<0.01	**
Nitrite – N	mg/L	0.005	<0.005	0.005	<0.005	0.006	1
Nitrate – N	mg/L	<0.23	<0.23	0.26	1.26	1.27	10
Chloride	mg/L	7	8	9	37	28	250
Dissolved Oxygen	mg/L	12.5	13.7	13.3	6	11.4	**
Fluoride	mg/L	0.05	0.69	0.71	0.09	0.78	4
Hardness (asCaCO ₃)	mg/L	9.8	9.3	9.8	14.8	15.1	150
pH ³	SU	6.4	8.4	6.7	6.1	7.3	8.5
Silica	mg/L	3.3	3.6	3.5	11.5	10.6	**
Phosphorus	mg/L	0.02	0.35	0.32	0.04	0.04	**
Sulfate ⁶	mg/L	NA	3	NA	NA	5	250
Inorganic Metals							
Arsenic	mg/L	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	0.05
Barium	mg/L	0.0041	0.0048	0.0038	0.0055	0.0053	2
Cadmium	mg/L	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	0.005
Calcium	mg/L	3.0	2.8	3.0	3.3	3.4	**
Chromium	mg/L	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.05
Copper ⁵	mg/L	<0.0034	<0.0034	0.052	0.16	0.021	1.3
Iron ⁵	mg/L	0.015	0.023	0.038	0.059	0.16	0.3
Lead ⁵	mg/L	<0.0023	<0.0023	<0.0023	<0.0023	<0.0023	0.015
Magnesium	mg/L	0.57	0.56	0.56	1.6	1.6	**
Manganese	mg/L	<0.005	<0.005	<0.005	<0.005	0.14	0.05
Mercury ⁷	mg/L	NA	<0.0002	NA	NA	<0.00005	0.002
Nickel	mg/L	<0.0033	<0.0033	<0.0033	0.0034	<0.0033	0.1
Potassium	mg/L	0.49	0.49	0.51	1.8	1.5	**
Selenium	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Silver	mg/L	<0.00036	<0.00036	<0.00036	<0.00036	<0.00036	0.05
Sodium	mg/L	4.7	8.4	8.6	12	13	100
Zinc	mg/L	0.003	0.102	0.099	0.048	0.009	5
Aggregate Organic							
Carbon, total organic	mg/L	1.8	2.0	1.9	<1.0	<1.0	**
Pesticide/Herbicide⁸							
	µg/L	NA	ND	NA	NA	ND	
Asbestos⁹							
(million fibers/L)	10 ⁶ f/L	NA	<0.12	NA	NA	NA	7
Radionuclides¹⁰							
Gross alpha	pCi/L	NA	0.12	NA	NA	7.6	15

¹ Conductivity analyzed in 2012

² Steep Falls Treated turbidity measured on 2/24/14

³ Chlorine and pH vary throughout the distribution system so values at your tap may differ from this locale.

⁴ MCL= Maximum Contaminant Level. The highest level of a contaminant that is allowed or recommended in drin

⁵ Copper, iron and lead can be affected by the condition of distribution system pipes and interior plumbing.

⁶ Sulfate – analyzed in June 2008

⁷ Mercury analyzed in June 2013 (Greater Portland) and June 2011 (Steep Falls).

⁸ Pesticide/herbicide analyzed in September and December 2011(Gr. Portland) and August 2008 (Steep Falls).

⁹ Asbestos analyzed in July 2011 in Cumberland area.

¹⁰ Gross alpha analyzed in May 2006 (Greater Portland) and June 2012 (Steep Falls)

** - MCL does not exist for these constituents

NA – Not analyzed

ND – None detected

**SUPPLEMENTARY WATER QUALITY INFORMATION
SAMPLES COLLECTED AFTER TREATMENT**

CONTAMINANT	MCL ¹ (MG/L)		GREATER PORTLAND	STEEP FALLS
ORGANIC VOLATILE ORGANICS (EPA 524.2) Collected in June 2014				
BENZENE	0.005		<0.0005	<0.0005
CARBON TETRACHLORIDE	0.005		<0.0005	<0.0005
p-DICHLOROBENZENE	0.075		<0.0005	<0.0005
1,2-DICHLOROETHANE	0.005		<0.0005	<0.0005
1,1-DICHLOROETHENE	0.007		<0.0005	<0.0005
1,1,1-TRICHLOROETHANE	0.2		<0.0005	<0.0005
TRICHLOROETHENE	0.005		<0.0005	<0.0005
VINYL CHLORIDE	0.002		<0.001	<0.001
METHYL TERT-BUTYL ETHER (State req.)	0.035		<0.0005	<0.0005
o-DICHLOROBENZENE	0.6		<0.0005	<0.0005
cis-1,2-DICHLOROETHENE	0.07		<0.0005	<0.0005
trans-1,2-DICHLOROETHENE	0.1		<0.0005	<0.0005
1,2-DICHLOROPROPANE	0.005		<0.001	<0.001
ETHYLBENZENE	0.7		<0.0005	<0.0005
CHLOROBENZENE	0.1		<0.0005	<0.0005
STYRENE	0.1		<0.001	<0.001
TETRACHLOROETHENE	0.005		<0.0005	<0.0005
TOLUENE	0.1		<0.001	<0.001
XYLENES	10		<0.001	<0.001
DICHLOROMETHANE	0.005		<0.0005	<0.0005
1,2,4-TRICHLOROBENZENE	0.07		<0.0005	<0.0005
1,1,2-TRICHLOROETHANE	0.005		<0.0005	<0.0005
1,2-DIBROMO-3-CHLOROPROPANE	STWV ²		STWV ²	STWV ²
ETHYLENE DIBROMIDE	STWV ²		STWV ²	STWV ²
SYNTHETIC ORGANIC-PESTICIDES (EPA 525.2) Collected in September 2014				
ATRAZINE	0.003		<0.0002	STWV ²
ALACHLOR (LASSO)	0.002		<0.00025	STWV ²
BENZO(A)PYRENE	0.0002		<0.0002	STWV ²
BHC GAMMA (LINDANE)	0.0002		<0.0002	STWV ²
BIS (2-ETHYLHEXYL) ADIPATE	0.4		<0.001	STWV ²
BIS (2-ETHYLHEXYL) PHTHALATE	0.001		<0.001	STWV ²
ENDRIN	0.002		<0.0002	STWV ²
HEPTACHLOR	0.0004		<0.0001	STWV ²
HEPTACHLOR EPOXIDE	0.0002		<0.0002	STWV ²
HEXACHLOROBENZENE	0.001		<0.0002	STWV ²
HEXACHLOROCYCLOPENTADIENE	0.05		<0.0002	STWV ²
METHOXYCHLOR	0.04		<0.0002	STWV ²
SIMAZINE	0.004		<0.0002	STWV ²
PESTICIDES/PCB'S (EPA 508.1) Collected in September 2014				
CHLORDANE	0.002		<0.00052	STWV ²
POLYCHLORINATED BIPHENYLS, TOTAL	0.0005		<0.0001	STWV ²
TOXAPHENE	0.003		<0.00052	STWV ²
CARBAMATES (EPA 531.1) Collected in September 2014				

**SUPPLEMENTARY WATER QUALITY INFORMATION
SAMPLES COLLECTED AFTER TREATMENT**

CONTAMINANT	MCL¹ (MG/L)		GREATER PORTLAND	STEEP FALLS
ALDICARB	NO MCL		<0.002	STWV ²
ALDICARB SULFONE	NO MCL		<0.002	STWV ²
ALDICARB SULFOXIDE	NO MCL		<0.002	STWV ²
CARBOFURAN	0.04		<0.002	STWV ²
OXAMYL	0.2		<0.002	STWV ²
SYNTHETIC ORGANICS - HERBICIDES (EPA 515.3) Collected in September 2014				
2,4-D	0.07		<0.0001	STWV ²
2,4,5 TP (SILVEX)	0.05		<0.0004	STWV ²
DALAPON	0.2		<0.001	STWV ²
DINOSEB	0.007		<0.0005	STWV ²
PENTACHLOROPHENOL	0.001		<0.0001	STWV ²
PICLORAM	0.5		<0.00075	STWV ²
FOOTNOTES				
¹ MCL- Maximum Contaminant Level, The highest level of a contaminant allowed or recommended in drinking water.				
² STWV-State waiver, no testing required in Steep Falls water system				