



Ambient Ground Water Quality Monitoring Program
Ground Water Quality Results
 Inorganic results from raw, untreated Ambient well water

Charge Balance Error	-0.9%
Analyte Count on Sheet	31
Analyte Detected Count	-1

Station Name **Wapakoneta Waterworks** Well Num **1** Ambient Well ID **39AUG00098** Samp. Status **Active18Cycle** PWS ID **OH0600712**
 Sample Num **18100904-0** Sample Date/Time **10/10/2018 11:00:00** Sampler **Zajkowski, Chad** Sample Type **Inorganic** QC Code **None**
 Chem. Sheet ID **14508** Matrix **Ground Water** Sheet Status **Approved** County **Auglaize** District **NWDO** Well Log #
 Well Depth (ft) **268** Casing Length (ft) **111** Lith. Open Section **Dolomite** Major Lith. **Carbonate** Aquifer Name **AuglaizeRiver**

FieldParameter

FieldParameter	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Oxidation Reduction Potential (ORP)	-40	N/A				
pH	7.25	N/A				
Specific Conductance	923	N/A				
Temperature, water	12.5	N/A			ValueBelowQCStandard	
Total Dissolved Solids (TDS), Field	638	N/A				

Metals-ICP

Aluminum	ND	200 ug/L			ValueBelowQCStandard	401.1 (200.7/6010)
Barium	49.6	15 ug/L				401.1 (200.7/6010)
Boron	ND	200 ug/L			ValueBetweenQL-Std	401.1 (200.7/6010)
Calcium	108	10 mg/L				401.1 (200.7/6010)
Chromium	ND	4 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Chromium	ND	4 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Chromium	ND	4 ug/L			QL is estimated	460.1 (200.8/6020)
Chromium	ND	4 ug/L			QL is estimated	460.1 (200.8/6020)
Copper	ND	4 ug/L			QL is estimated	460.1 (200.8/6020)
Copper	ND	4 ug/L			QL is estimated	460.1 (200.8/6020)
Copper	ND	4 ug/L			ValueBetweenQL-Std	460.1 (200.8/6020)
Copper	ND	4 ug/L			ValueBetweenQL-Std	460.1 (200.8/6020)
Hardness, Ca + Mg	435	10 mg/L				401.1 (200.7/6010)
Iron	2000	50 ug/L	> SMCL (0.3 mg/L)			401.1 (200.7/6010)
Lead	ND	4 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Lead	ND	4 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Lead	ND	4 ug/L			QL is estimated	460.1 (200.8/6020)
Lead	ND	4 ug/L			QL is estimated	460.1 (200.8/6020)
Magnesium	40.5	1 mg/L				401.1 (200.7/6010)
Manganese	38.5	10 ug/L	77.0% of SMCL (0.05 mg/L)			401.1 (200.7/6010)
Nickel	ND	4 ug/L			QL is estimated	460.1 (200.8/6020)
Nickel	ND	4 ug/L			QL is estimated	460.1 (200.8/6020)
Nickel	ND	4 ug/L			ValueBetweenQL-Std	460.1 (200.8/6020)
Nickel	ND	4 ug/L			ValueBetweenQL-Std	460.1 (200.8/6020)
Potassium	2.42	2 mg/L				401.1 (200.7/6010)
Sodium	34.9	5 mg/L				401.1 (200.7/6010)
Strontium	16300 *	150 ug/L		LT = 4000		401.1 (200.7/6010)
Zinc	ND	10 ug/L			ValueBelowQCStandard	401.1 (200.7/6010)

Metals-ICPMS

Arsenic	3.16	2 ug/L				460.1 (200.8/6020)
Cadmium	ND	0.4 ug/L			QL is estimated	460.1 (200.8/6020)
Cadmium	ND	0.4 ug/L			QL is estimated	460.1 (200.8/6020)
Cadmium	ND	0.4 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Cadmium	ND	0.4 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)
Selenium	ND	2 ug/L			ValueBelowQCStandard	460.1 (200.8/6020)

Nutrients-Demand

Ammonia	0.551	0.05 mg/L				250.4 (350.1)
Carbon, Total Organic (TOC)	ND	2 mg/L			ValueBetweenQL-Std	335.3 (SM 5310C)
Chemical Oxygen Demand (COD)	ND	20 mg/L			ValueBetweenQL-Std	320.4 (SM 5220D)
Nitrate+Nitrite	ND	0.1 mg/L			ValueBelowQCStandard	250.8 (USEPA Red.)
Nitrogen, Total Kjeldahl (TKN)	0.458	0.3 mg/L				250.6 (351.2)
Phosphorus	0.0392	0.02 mg/L				260.8 (365.4)



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 Sample Num **18100904-0** Sample Date/Time **10/10/2018 11:00:00** Sampler **Zajkowski, Chad** Sample Type **Inorganic** QC Code **None**
 Chem. Sheet ID **14508** Matrix **Ground Water** Sheet Status **Approved** County **Auglaize** District **NWDO** Well Log #
 Well Depth (ft) **268** Casing Length (ft) **111** Lith. Open Section **Dolomite** Major Lith. **Carbonate** Aquifer Name **AuglaizeRiver**

Unpreserved

Alkalinity, Total	335	5	mg/L		220.1 (310.1)
Bromide	64	20	ug/L		290.1 (300.1)
Chloride	40.9	5	mg/L		230.2 (325.1)
Fluoride	1.21	0.2	mg/L	60.5% of SMCL (2 mg/L)	280.1 (SM 4500-FC)
Sulfate	126	10	mg/L	50.4% of SMCL (250 mg/L)	270.3 (375.2)
Total Dissolved Solids	592	10	mg/L	> SMCL (500 mg/L)	130.2 (SM 2540C)

Field Comments

End of sample # 18100904-02

Explanations

ND: Non Detect
 QL: Quantitation Limit
 N/A: Not Applicable

Results color fields

Colored fields highlight results greater than Drinking Water compliance thresholds. Since Ambient samples are not used for compliance evaluations, these thresholds are shown for comparison purposes only.

Sky Blue Organic samples only; indicates a detect
Tan Exceeds Action Level (lead and copper only)
Violet Exceeds Secondary MCL
Brick Red Exceeds Primary MCL
Yellow CBE exceeds +/- 5%

★ LT = Life Time Health Advisory Exceedance

▲ 1_10 = One and Ten Day Health Advisory Exceedance



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Ground Water Quality Results

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Charge
Balance
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Analyte Count on Sheet	70
Analyte Detected Count	-1

Station Name: **Wapakoneta Waterworks** Well Num: **1** Ambient Well ID: **39AUG00098** Samp. Status: **Active18Cycle** PWS ID: **OH0600712**
Sample Num: **18100904-0** Sample Date/Time: **10/10/2018 11:00:00** Sampler: **Zajkowski, Chad** Sample Type: **Organic** QC Code: **None**



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Analyte Count on Sheet 70
 Analyte Detected Count -1

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 Sample Num **18100904-0** Sample Date/Time **10/10/2018 11:00:00** Sampler **Zajkowski, Chad** Sample Type **Organic** QC Code **None**
 Chem. Sheet ID **14509** Matrix **Ground Water** Sheet Status **Approved** County **Auglaize** District **NWDO** Well Log #
 Well Depth (ft) **268** Casing Length (ft) **111** Lith. **Open Section** Dolomite Major Lith. **Carbonate** Aquifer Name **AuglaizeRiver**

VolatileOrganic	Result/Unit	Reporting Limit	Primary/Secondary/Action Lim. Benchmarks	Health Advisory Benchmarks	Lab Remark	Lab Method
Styrene	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Tetrachloroethane, 1,1,1,2-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Tetrachloroethane, 1,1,2,2-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Tetrachloroethylene	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Toluene	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Trans-1,4-Dichloro-2-butene	ND	1 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Trichlorobenzene, 1,2,3-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Trichlorobenzene, 1,2,4-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Trichloroethane, 1,1,1-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Trichloroethane, 1,1,2-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Trichloroethylene	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Trichlorofluoromethane	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Trichloropropane, 1,2,3-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Trihalomethanes (unspecified mix)	ND	3.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Trimethylbenzene, 1,2,4-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Trimethylbenzene, 1,3,5-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Vinyl acetate	ND	1 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Vinyl chloride	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Xylene, o-	ND	0.5 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)
Xylenes, m- & p- Mix	ND	1 ug/L			ValueBelowQCStandard	530.2 (524.2/624/)

Field Comments

End of sample # **18100904-02**

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