

**City of Urbana  
2017 Chemical Analysis Report**

<b>Organic Compounds</b> <b>VOC</b>	<b>EP 003 PW Supply</b>					
	<b>Date</b>		<b>1/23/2017</b>	<b>4/17/17</b>	<b>7/10/2017</b>	<b>11/13/2017</b>
	<b>Unit</b>	<b>MCL</b>	<b>1 Qrt.</b>	<b>2 Qrt</b>	<b>3 Qrt</b>	<b>4 Qrt.</b>
1,1,1- Trichloroethane	ug/L	200	< 0.50	<0.50	<0.5	<.50
Tetrachlorethylene	ug/L	5	< 0.50	<0.50	<0.5	<.50
Trichloroethylene	ug/L	5	< 0.50	<0.50	<0.5	<.50

<b>Organic Compounds</b> <b>THM's</b> <b>Wells #10 #11 #12</b>	<b>DS202 / 1840 E US Hwy 36</b>					
	<b>Date</b>		<b>1 Qrt.</b>	<b>2Qrt.</b>	<b>3 Qrt.</b>	<b>4 Qrt.</b>
	<b>Unit</b>	<b>MCL</b>			<b>8/7/2017</b>	
Bromodichloromethane	ug/L	n/a	N/A	N/A	2.91	N/A
Bromoform	ug/L	n/a	N/A	N/A	0.6	N/A
Chloroform	ug/L	n/a	N/A	N/A	3.39	N/A
Dibromochoromethane	ug/L	n/a	N/A	N/A	1.78	N/A
Total THMs	ug/L	80	N/A	N/A	8.68	N/A

<b>Haloacetic Acids ( HAA5 )</b> <b>Wells #10 #11 #12</b>	<b>DS202 / 1840 E US Hwy 36</b>					
	<b>Date</b>		<b>1 Qrt.</b>	<b>2Qrt.</b>	<b>3 Qrt.</b>	<b>4 Qrt.</b>
	<b>Unit</b>	<b>MCL</b>			<b>8/7/2017</b>	
Dibromoacetic Acid	ug/L		N/A	N/A	<1.0	N/A
Dichloroacetic Acid	ug/L		N/A	N/A	1.9	N/A
Monobromoacetic Acid	ug/L		N/A	N/A	<1.0	N/A
Monochloroacetic Acid	ug/L		N/A	N/A	<2.0	N/A
Trichloroacetic Acid	ug/L		N/A	N/A	<1.0	N/A
Total HAA5 's	ug/L	60	N/A	N/A	<6.0	N/A

<b>NITRATE</b>	<b>EP 003 PW #10 #11 #12</b>					
	<b>Date</b>		<b>1/13/2014</b>	<b>1/12/2015</b>	<b>1/4/2016</b>	<b>1/23/2017</b>
	<b>Unit</b>	<b>MCL</b>				
Nitrate	mg/L	10	<b>2.2</b>	<b>1.95</b>	<b>2.6</b>	1.36
Nitrite	mg/L	1	< 0.10	< 0.10	< 0.1	< 0.1

<b>IOC</b>						
	<b>Date</b>		<b>3/18/2009</b>	<b>2/16/2011</b>	<b>1/27/2014</b>	<b>1/23/2017</b>
	<b>Unit</b>	<b>MCL</b>				
Antimony	ug/L	6	< 3	< 3	< 4	< 4
Arsenic	ug/L	10	< 3	< 3.00	< 3	< 3.0
Barium	ug/L	2000	190	180	152	154
Beryllium	ug/L	4	< 0.5	< 0.50	< 1	< 1.0
Cadmium	ug/L	5	< 0.5	< 0.50	< 1	< 1.0
Chromium	ug/L	100	< 10	< 10	< 5.0	< 5.0
Cyanide	ug/L	200	< 5	< 5.0	< 10.0	< 10.0

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Fluoride	mg/L	4	0.31	0.321	0.26	0.25
Mercury	ug/L	2	< 0.2	< 0.2	< 0.2	< 0.5
Nickel	ug/L	100	< 10	< 10	< 10.0	< 10.0
Selenium	ug/L	50	< 3	< 3.00	< 5.0	< 5.0
Thallium	ug/L	2	< 1	< 1.00	< 1.5	< 1.5

<b>UCMR3</b>						
	<b>Date</b>		<b>1/18/2013</b>	<b>7/17/2013</b>		
	<b>Unit</b>	<b>MCL</b>	Round 1	Round 2		
Chlorate	ug/l	NA	169	255		
Molybdenum	ug/l	NA	1.56	1.4		
Strontium	ug/l	NA	459	380		
Chromium Hex	ug/l	NA	0.062	< 0.03		

<b>SOC</b>						
	<b>Date</b>		<b>1/23/2017</b>	<b>4/20/2011</b>	<b>4/18/2012</b>	<b>1/27/2014</b>
	<b>Unit</b>	<b>MCL</b>				
Alachlor	ug/L	2	< 0.20			< 0.2
Atrazine	ug/L	3	< 0.30			< 0.3
Simazine	ug/L	4	< 0.35			< 0.35
Adapate	ug/L	400				
Phthalate	ug/L	6				
Diquat	ug/L	20			< 0.4	
Glyphosate	ug/L	700			< 6.0	
Lindane	ug/L	0.2			< 0.022	
Methoxychlor	ug/L	40			< 0.1	
PCB's	ug/L	0.5			< 0.11	
Carbofuran	ug/L	40				
2,4 D	ug/L	70				
Oxaml	ug/L	200				
Pentachlor	ug/L	1				
Picloram	ug/L	500				
Benzo(a)pyrene	ug/L	0.2		< 0.018		
Bis(2-ethylhexy)adipate	ug/L	400		< 0.51		
Bis(2-ethylhexy)phthalate	ug/L	6		< 0.51		
Endothall	ug/L	100		< 9.0		

<b>RADIOLOGICAL</b>						
	<b>Date</b>		<b>4/15/2009</b>	<b>7/15/2009</b>	<b>1/14/2013</b>	<b>1/4/2016</b>
	<b>Unit</b>	<b>MCL</b>				
Alpha, Total	pci/l	15	< 3	< 3	< 3	< 3
Radium-228	pci/l	5	< 1	< 1	1.25	< 1

<b>Hardness</b>						
	<b>Date</b>		<b>10/22/2012</b>	<b>6/17/2013</b>	<b>3/14/2016</b>	
	<b>Unit</b>					
	mg/l		442	405	419	

## VOC WELL 8

Organic Compounds			EP 002 PW # 8			
VOC	Date		1 Qrt.	2Qrt.	3 Qrt.	4 Qrt.
	Unit	MCL				
			RAW	RAW	RAW	RAW
1,1,1- Trichloroethane	ppb	200	N/A	N/A	<0.5	N/A
Tetrachlorethylene	ppb	5	N/A	N/A	1.48	N/A
Trichloroethylene	ppb	5	N/A	N/A	<0.5	N/A

## VOC WELL 9

Organic Compounds	EP 002 PW # 9					
	Date		1/23/2017	4/17/2017	9/5/2017	
VOC	Unit	MCL	1 Qrt.	2Qrt.	3 Qrt.	4 Qrt.
			<b>RAW</b>	<b>RAW</b>	<b>RAW</b>	<b>RAW</b>
1,1,1- Trichloroethane	ug/L	200	<0.5	<0.5	<0.5	N/A
Tetrachlorethylene	ug/L	5	0.72	0.69	1.10	N/A
Trichloroethylene	ug/L	5	<0.5	<.5	<0.5	N/A

**EP 002 ANALYSIS**

<b>Organic Compounds</b> <b>VOC</b>	<b>EP 002 PW Supply</b>					
	<b>Date</b>		<b>1/23/2017</b>	<b>4/17/2017</b>	<b>7/10/2017</b>	<b>11/13/2017</b>
	<b>Unit</b>	<b>MCL</b>	<b>1 Qrt.</b>	<b>2 Qrt</b>	<b>3 Qrt.</b>	<b>4 Qrt</b>
1,1,1- Trichloroethane	ug/L	200	< 0.50	<0.5	<0.5	<0.5
Tetrachlorethylene	ug/L	5	< 0.50	<0.5	<0.5	<0.5
Trichloroethylene	ug/L	5	< 0.50	<0.5	<0.5	<0.5

<b>Organic Compounds</b> <b>THM's</b> <b>Wells 8 &amp; 9</b>	<b>DS201 / 1579 E. SR. 29</b>					
	<b>Date</b>		<b>1 Qrt.</b>	<b>2Qrt.</b>	<b>3 Qrt.</b>	<b>4 Qrt.</b>
	<b>Unit</b>	<b>MCL</b>			<b>8/7/2017</b>	
Bromodichloromethane	ug/L	n/a	N/A	N/A	6.03	N/A
Bromoform	ug/L	n/a	N/A	N/A	1	N/A
Chloroform	ug/L	n/a	N/A	N/A	16.2	N/A
Dibromochoromethane	ug/L	n/a	N/A	N/A	3.17	N/A
Total THMs	ug/L	80	N/A	N/A	26.4	N/A

<b>Haloacetic Acids ( HAA5 )</b> <b>Wells 8 &amp; 9</b>	<b>DS201 / 1579 E. SR. 29</b>					
	<b>Date</b>		<b>1 Qrt.</b>	<b>2Qrt.</b>	<b>3 Qrt.</b>	<b>3 Qrt.</b>
	<b>Unit</b>	<b>MCL</b>			<b>8/7/2017</b>	
Dibromoacetic Acid	ug/L		N/A	N/A	<1.0	N/A
Dichloroacetic Acid	ug/L		N/A	N/A	1.97	N/A
Monobromoacetic Acid	ug/L		N/A	N/A	<1.0	N/A
Monochloroacetic Acid	ug/L		N/A	N/A	<2.0	N/A
Trichloroacetic Acid	ug/L		N/A	N/A	<1.0	N/A
Total HAA5 's	ug/L	60	N/A	N/A	<6.0	N/A

<b>NITRATE</b>  <b>Nitrite</b> <b>NITRATE</b>	<b>EP 002 PW # 8 &amp; # 9</b>					
	<b>Date</b>		<b>8/17/2015</b>	<b>7/11/2016</b>	<b>7/10/2017</b>	
	<b>Unit</b>	<b>MCL</b>				
	<b>mg/l</b>	<b>1</b>	< 0.1	< 0.1	<0.1	
	<b>mg/L</b>	<b>10</b>	2.6	2.85	2.8	

<b>IOC</b>						
	<b>Date</b>		<b>2/20/2008</b>	<b>2/16/2011</b>	<b>1/27/2014</b>	<b>1/23/2017</b>
	<b>Unit</b>	<b>MCL</b>				
Antimony	ug/L	6	< 3.0	< 3.00	< 4.0	< 4.0
Arsenic	ug/L	10	< 3.0	< 3.00	< 3.0	< 3.0
Barium	ug/L	2000	140	110	107	108
Beryllium	ug/L	4	< 0.5	< 0.50	< 1.0	< 1.0
Cadmium	ug/L	5	< 0.2	< 0.50	< 1.0	< 1.0
Chromium	ug/L	100	< 5.0	< 10	< 5.0	< 5.0
Cyanide	ug/L	200	< 10.0	< 5.0	< 10.0	< 10.0
Fluoride	mg/l	4	0.22	0.295	0.21	0.22
Mercury	ug/L	2	< 0.2	< 0.2	< 0.2	< 0.5
Nickel	ug/L	100	< 5.0	< 10	< 10.0	< 10.0
Selenium	ug/L	50	< 5.0	< 3.00	< 5.0	< 5.0
Thallium	ug/L	2	< 1.0	< 1.00	< 1.5	< 1.5

**EP 002 ANALYSIS**

<b>UCMR3</b>					
	<b>Date</b>		<b>1/18/2013</b>	<b>7/17/2013</b>	
	<b>Unit</b>	<b>MCL</b>	<b>Round 1</b>	<b>Round 2</b>	
Chlorate	ug/l	NA	68	67.4	
Molybdenum	ug/l	NA	4.94	5.5	
Strontium	ug/l	NA	277	240	
Vanadium	ug/l	NA	< 0.2	0.35	

<b>SOC</b>					
	<b>Date</b>		<b>4/11/2016</b>	<b>1/23/2017</b>	<b>4/20/2015</b>
	<b>Unit</b>	<b>MCL</b>			
Alachlor	ug/L	2		< 0.2	
Atrazine	ug/L	3		< 0.3	
Simazine	ug/L	4		< 0.35	
Adapate	ug/L	400			
Phthalate	ug/L	6			
Diquat	ug/L	20			< 2.0
Glyphosate	ug/L	700			< 30
Lindane	ug/L	0.2			< 0.1
Methoxychlor	ug/L	40			< 0.1
PCB's	ug/L	0.5			< 0.1
Carbofuran	ug/L	40	< 0.9		
2,4 D	ug/L	70	< 1.0		
Oxaml	ug/L	200	< 2.0		
Pentachlor	ug/L	1	< 0.4		
Picloram	ug/L	500	< 1.0		
Benzo(a)pyrene	ug/L	0.2			
Bis(2-ethylhexy)adipate	ug/L	400			
Bis(2-ethylhexy)phthalate	ug/L	6			
Endothall	ug/L	100			

<b>RADIOLOGICAL</b>		<b>Date</b>		<b>3/3/2008</b>	<b>1/27/2014</b>	
	<b>Unit</b>	<b>MCL</b>				
Alpha, Total	pci/l	15	< 3.00	< 3.0		
Radium-228	pci/l	5	< 1.00	< 1.0		

<b>Hardness</b>		<b>Date</b>		<b>9/12/2017</b>	<b>10/22/2012</b>	<b>6/24/2013</b>	<b>11/7/2016</b>
	<b>Unit</b>						
	mg/l		301	342	320	339	







**VOC WELL FIELD DATA 8 AND 9**