

2014 Annual Residential Well Sampling Report
Project No: 1036-10081

Prepared For:
Franklin Waste Facility Monitoring Committee

Prepared By:



WHAT WE DO TODAY TOUCHES SEVEN GENERATIONS.

In May of 1992 an agreement between The Waste Management Metro Landfill and Recycling Facility (Waste Facility) and the neighboring Municipalities was signed; a Host agreement. This agreement defined the rights and responsibilities of a Monitoring Committee that would be made up of representatives from the neighboring municipalities and the “host” community, City of Franklin. The Monitoring Committee was titled the Franklin Waste Facility Monitoring Committee (Franklin WFMC). The other communities with seats on the Franklin WFMC are:

- Milwaukee County
- Waukesha County
- Racine County
- City of Muskego
- Town of Raymond
- Town of Norway

One of the responsibilities of the Waste Facility is to procure annual sampling and testing of thirty five (35) residential wells, selected by the Franklin WFMC. The samples under go testing for constituents regulated by both the Primary and Secondary Federal Drinking Water Standards. The results of this testing is presented to the Franklin WFMC by the Waste Facility.

In 1996 the Franklin WFMC initiated a contract with Environmental Graphics, Inc.; a consultant to analyze the results from the Annual Residential Well Sampling and provide a report summarizing results, recording sampling history, and providing recommendations for the subsequent annual sampling. In 2003, the Franklin WFMC engaged the services of Ruekert Mielke, Inc. to perform the Annual Residential Well Sampling Report Contract for 2003 through 2005. The Franklin WFMC awarded the 2006-Annual Residential Well Sampling Contract to JSA Civil Environmental Engineers, Inc. (JSA). JSA has maintained the contract since 2006.

This year, 2014, the Franklin WFMC again appointed Davy Laboratories¹ to perform the sampling and testing of the 35 wells. Davy had been selected the previous three years, following an open bid process and the previous years sampling protocols were in compliance with the contract between the Franklin WFMC and the Waste Facility.

JSA initiated the 2014 contract by reviewing the findings from the August 28, 2014 testing of the 35 residential wells, sampled on July 24th of 2014. JSA also made the commitment to generate this report, maintain the historic database, and aid the Franklin WFMC in the selection of the 35 residential wells for sampling in 2015.

On November 6, 2014; JSA has completed Tasks 1,2, and 3 of the “Annual Well Sampling Report”, by submitting the Well Sampling Report to the Franklin WFMC. This report includes a Map of Wells Sampled, Table 1- 2014 Residential Well Sampling, Table 2 – Historic Sampling Summary, Table 3 – 2014 Residential Well Samples Exceeding the Federal Secondary Drinking Water Standard, Table 4 – History of Constituents Detected Above LOD. All tables have been sized to fit on standard Letter paper and when applicable are produced in duplex, however Table 2 and the map still require 11”x17” formatting.

¹ Davy Laboratories, 115 Sixth Street, P.O. Box 2076, Lacrosse, WI 54602-2076
Performed sampling and analysis in 2009 thru 2014.

Wells Sampled

In June 2014, JSA made recommendations to the Franklin WPMC for the selection of the 35 residential wells for the 2014 sampling. Wells were selected based on past sampling frequency, most recent sampling, and potential for trend analysis in organic constituents detected; as recommended in the 2013 Annual Residential Well Sampling Report. All wells selected were sampled in 2014. No new wells were sampled in 2014. Well sampling frequency was focused on newer wells and wells that had had limited sampling to date. Sampling this year did include properties adjacent to the WMWI Metro Waste and Recycling Facility both North and South. As the landfill has purchased all properties along 112th Street, there is no opportunity to sample wells adjacent to the facility to the East.

The sampling was performed by Davy Laboratories on July 24th of 2014. The locations are marked on MAP 1 of the report, using Tax ID to identify the property that the well is located on. The Well location data is found in Table 1, providing Property Owner, Property Address, and previous sampling date. Two wells are identified at the Northern edge of the map, to indicate their location beyond the Northern confines of the map.

Davy sampled only from external locations when possible, with immediate connections to the well. They performed purging (discharging of water from the well for at least two minutes) prior to all sample gathering. Samples were handled and returned to the lab following protocols established by the US EPA for drinking water sampling and testing.

Federal Primary Drinking Water Standards

In 2010 the US EPA updated the Federal Primary Drinking Water Standards Maximum Contaminant Level (MCL) for several constituents that are in the protocols. The majority of these constituents are heavy metals, none of the affected constituents have ever been detected in the Franklin WPMC Annual Residential Well Sampling history.

The 2014 Annual Residential Well Sampling Laboratory Testing yielded no constituents that exceeded the Federal Primary Drinking Water Standards Maximum Contaminant Level (MCL). No wells contained constituents above the identified MCL.

The Wisconsin Department of Natural Resources also maintains a set of parameters for groundwater contaminants. All constituents detected in the Well Sampling are found in NR 140 – Groundwater Quality. The Public Health Groundwater Quality Standards are similar to the Federal Primary Drinking Water standards.. The VOC's detected in the Annual 2013 Well Sampling had no samples with constituents that exceeded the Preventative Action Limit (PAL), therefore no constituents that exceeded the Enforcement Standard.

Federal Secondary Drinking Water Standards

The secondary standards act as guide lines for public water systems. Each well that had been previously sampled was compared to its past history. The 2014 Well Samples are consistent with the Well Sampling history and with the groundwater constituents of Southeastern Wisconsin.

Of the constituents measured under the Federal Secondary Drinking Water Standards, Iron

(Fe) and Sulfate (SO₄) are detected in excess. Nine (9)² wells had Iron concentrations higher than 0.30 milligrams per liter (mg/L) and four (4)³ wells had Sulfate concentrations equal to or greater than 250 mg/L. With the exception of the Acker, Dorothy and Lange well, there is no indication to suggest that these concentrations are anything other than naturally occurring and have been consistent over more than 15 years of sampling and testing. The Acker well is at 3.19 mg/L which is nearly double the value of 2006 (last sampling date) and the Lange well is at 1.14 mg/L, also nearly doubled in value since 2010 (last sampling date). It is probable that the increase in iron is do to an issue with the plumbing between the sampling point and the screen in the well. It is unlikely that the iron content in the Acker well is naturally occurring.

In past years of sampling many wells had Sulfate concentrations above 250 mg/L; the majority of these wells are now owned by the the landfill or are outside of the defined sampling area. No well in 2014 showed significant changes to the Secondary Drinking Water Standards with regards to previous years results.

Conclusions

The 2014 Well Sampling Laboratory Results yielded no exceedance of the established MCLs for all constituents. This is what should be expected in a sampling event and is most probably an example of improved well protection by well owners and improvements in the technology and protocols of sampling and testing.

The subject wells sampled were consistent with historic sampling results with respect to The US EPA Secondary Drinking Water Standards, exceedance was found in Iron and Sulfate concentrations; but do not pose a threat to public health. However, the owners of the Acker and Lange wells should have their plumbing systems evaluated by a professional to see if repairs are required or if water treatment is wanted.

Recommendations

JSA recommends that sampling for the 2015 report be focused on new wells and wells with close proximity to the landfill. When Waste Management purchases residences about the landfill, the associated wells are removed from the Annual Well Sampling Program and sampling adjacent to the landfill occurs less frequently. Wells along 92nd Street should be viewed as “adjacent” to the Facility and a focus for future sampling.

JSA does not have any wells on a “watch list” for 2015.

2 See Table 3 Results Fe+

3 See Table 3 Results SO₄

● Well Sampling Locations



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Table 1 2014 Residential Well Sampling

<u>Tax ID</u>	<u>Owner</u>	<u>Street</u>	<u>City</u>	<u>Zip</u>	<u>Site #</u>	<u>Prev Sample</u>
936.9996.000	Pauline & Donald Acker	10023 S. 92	Franklin	53132	1	2012
985.9997.003	Dorothy Acker	8731 W. Cty Line Road	Franksville	53126	2	2006
012.04.21.06.059.016	Joseph & Sandra Blazek	11410 N. 7-1/8 Mile Road	Franksville	53126	3	2011
012.04.21.07.010.000	Kurt/Sharon Block	11417 W. 7 Mile Road	Franksville	53126	4	2013
012.04.21.06.010.020	Vince Carriveau	216 HWY 45	Franksville	53126	5	2009
012.04.21.06.057.000	Richard & Deanna Chiapete	11287 7 Mile Road	Franksville	53126	6	2009
938.9993.000	Michael & Kaherine Delemont	9917 S 112 St..	Franklin	53132	7	2010
935.9994.004	Christine Gaulke	8674 W Oakwood Rd.	Franklin	53132	8	2011
944.9997.000	Loretta A. Wulf	10578 S. 92 St.	Franklin	53132	9	2010
012.04.21.06.062.000	Diane & Kay Hackstein	626 & 628 Adeline Dr	Franksville	53126	10	2011
012.04.21.06.031.000	Tom Harris	449 Adeline Dr	Franksville	53126	11	2010
012.04.21.06.059.004	Jerry Krause	627 Shirley Dr	Franksville	53126	12	2012
941.9983.000	Donald Lange	10905 W. Oakwood Rd.	Franklin	53132	13	2010
892.9994.000	Eugene Magarich	11327 W. Ryan Rd.	Franklin	53132	14	2012
012.04.21.06.054.000	Don Mateicka, Sr.	560 Shirley Dr	Franksville	53126	15	2011
939.9995.000	Ramona Machulak	W124S10077 S 124 St.	Muskego	53150	16	2005
012.04.21.06.064.000	Jerome & Marilyn Metz	11407 Shirley Dr	Franksville	53126	17	2011
012.04.21.06.066.000	Marilyn Miller	610 HWY 45	Franksville	53126	18	2012
939.9996.005	Robert & Rachel Millin	12026 W Oakwood Rd	Franklin	53132	19	2010
935.9999.002	Darlene M. Pasniak	9910 S. 92 St.	Franklin	53132	20	2013
012.04.21.05.002.000	Clyde & Barb Perdzock	9223 8 Mile Rd	Franksville	53126	21	2013
938.9989.000	Dennis & Joanne Schaefer	10004 S 112 St.	Franklin	53132	22	2012
989.9998.003	Al/Gwen Schill	10942 S. 124 St.	Franklin	53132	23	2010
944.9996.000	Daniel Vogt & Joseph Slieff	10474 S. 92 St.	Franklin	53132	24	2010
934.9992.004	Kathleen Schweitzer	7912 W. Oakwood Rd	Franklin	53132	25	2004
942.0002.000	Jack Leibl	10155 W Oakwood Rd	Franklin	53132	26	2012
944.9998.000	Francis & Mary Stich	10630 S. 92 St.	Franklin	53132	27	2010
012.04.21.06.045.000	Charles Sobbe	707 Adeline	Franksville	53126	28	2010
938.9999.005	Brandon & Laura Sumiejski	10830 W. Oakwood Rd.	Franklin	53132	29	2011
012.04.21.06.030.000	John Stroud	702 N Raynor	Franklin	53132	30	2011
012.04.21.06.025.000	George Van Eperen	624 124Th St.	Franksville	53126	31	2010
935.9994.006	Marvin Wolff	8502 W. Oakwood Rd.	Franklin	53132	32	2013
012.04.21.06.046.000	Gregory & June Worman	499 Adeline Dr.	Franksville	53126	33	2006
891.9989.003	Michael Zolecki	11835 W. Ryan Rd	Franklin	53132	34	2010
012.04.21.06.007.000	Blaine Gellings	231 108th St.	Franksville	53126	35	2011

* Well not previously sampled

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Table 3 2014 Residential Well Samples Exceeding the Federal Secondary Drinking Water Standards

<u>Tax ID</u>	<u>Owner</u>	<u>Site #</u>	<u>Results Fe+</u>		<u>Results SO4</u>	
			<u>Iron</u> (mg/L)	<u>MCL</u>	<u>Sulfate</u> (mg/L)	<u>MCL</u>
985.9997.003	Dorothy Acker	2	3.190	0.300		
012.04.21.07.010.000	Kurt & Sharon Block	4	0.325	0.300		
012.04.21.06.010.020	Vince Carriveau	5	0.331	0.300		
012.04.21.06.062.000	Diane & Kay Hackstein	10			335	250
941.9983.000	Donald Lange	13	1.140	0.300		
892.9994.000	Eugene Magarich	14	0.366	0.300		
012.04.21.06.054.000	Don Mateicka, Sr.	15			357	250
939.9995.000	Ramona Machulak	16	0.483	0.300		
012.04.21.06.064.000	Jerome & Marilyn Metz	17	0.647	0.300		
939.9996.005	Robert & Rachel Millin	19	0.450	0.300		
012.04.21.06.025.000	George Van Eperen	31	0.325	0.300		
012.04.21.06.046.000	Gregory & June Worman	33			264	250
012.04.21.06.057.000	Richard & Deanna Chiapete	6			252	250

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**Table 4 Historic Residential Well Samples Exceeding Constituent LOD
2013 Residential Well Samples Exceeding Constituent LOD**

<u>Tax ID</u>	<u>Owner</u>	<u>Iron</u> (mg/L)	<u>Sulfate</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)	<u>Toluene</u> (µg/L)	<u>TCE</u> (µg/L)
987.9997.002	Robert Coblantz		340			
012.04.21.06.068.000	Joseph Gellings				0.787	
938.9999.006	Jenny & Steve Heckler			9.89		
010.04.20.01.020.000	Frank Mente	0.467				
012.04.21.05.002.000	Clyde & Barb Perdsock		250		0.484	
012.04.21.06.028.000	Ardith Revolinski	0.491				
012.04.21.05.019.000	William Seager	0.324		0.825		
012.04.21.06.013.000	Kim/Paul Thiessenhusen	0.329				
935.9994.006	Marvin Wolff	0.445				0.233
899.9990.052	Marion Woelbing	0.331				
012.04.21.07.017.000	Steven/Laura Zirzow	0.637				

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2012 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Owner</u>	<u>Iron</u> (mg/L)	<u>Sulfate</u> (mg/L)	<u>Chloroform</u> (µg/L)
985.9996.000	Duane Acker	3.120		
012.04.21.07.011.000	Joseph Bedalov	0.331		
939.9996.006	Roger S. Berndt	0.356		
012.04.21.06.010.020	Doris Carriveau	0.303	275	
891.9992.000	Colleen Domask/Steve Vallee			
012.04.21.06.065.000	Robert F. Foulston			
985.9999.000	Diana/Scott Fredrickson	0.535	310	
939.9999.000	Ruth Grandlich	0.392		
934.9998.001	Earl Holterman			
893.9999.000	Ted Ignasiak			
942.0004.000	Anthony/Anne Kraus			
938.9999.004	Adeline & Helmut Kopp			0.358
012.04.21.06.059.004	Jerry Krause	0.416		
938.9988.008	James Langenohl			
942.0002.000	Jack F. Liebl			
012.04.21.06.035.000	Preston Ludtke			
892.9994.000	Eugene Magarich	0.464		
012.04.21.06.066.000	Don Mateicka, Jr		283	
012.04.21.06.066.000	Jon & Barbara Olson	0.360	274	
935.9999.002	Darlene M Pasniak	0.507		
938.9989.000	Dennis F. Schaefer	0.328		
012.04.21.07.019.000	Ken Schingeck			

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2012 Residential Well Samples Exceeding Constituent LOD – Cont.

<u>Tax ID</u>	<u>Owner</u>	<u>Iron</u> (mg/L)	<u>Sulfate</u> (mg/L)	<u>Chloroform</u> (µg/L)
943.9997.010	William Schittinger			
012.04.21.06.013.000	Kim/Paul Thiessenhusen	0.324		1.16
987.9997.003	Sally Thompson	0.357		0.488
012.04.21.07.005.000	Gary Vanden Boom	0.302		
012.04.21.06.019.000	Ronald Vanden Boom	0.517		
012.04.21.05.005.000	Ludwig & Shirley Vretenar		365	
894.9997.001	Gegory T. Weber	0.531		
012.04.21.06.002.000	Carol Welch			
899.9990.052	Marion Woelbing	1.120		
935.9994.006	Marvin Wolff	0.378		

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2011 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Owner</u>	<u>Iron</u> (mg/L)	<u>Sulfate</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)	<u>Bromodichloromethane</u> (µg/L)	<u>Chloroform</u> (µg/L)	<u>Chlorodibromomethane</u> (µg/L)
985.9996.000	Duane Acker	3.47					1.00
012.04.21.06.059.016	Sandra J. Blazek		251				
012.04.21.06.010.010	Vince Carriveau		279				
987.9997.002	Robert & M Coblantz		325				
892.9991.000	Robert Diedrich	0.31				2.02	
891.9992.000	Colleen Domask	0.805			3.26		
935.9994.004	Christine Gaulke	0.314					
012.04.21.06.062.000	Diane/Kay Hackstein		346				
938.9999.006	Mark Hagert	0.791					
938.9999.006	Jenny & Steve Heckler				5.43**	1	
888.9998.001	Nick/Jackie Ioder	0.319					
892.9994.000	Eugene Magarich	0.526	350				
012.04.21.06.064.000	Jerome M./Marilyn Metz	0.375					
938.9998.000	Charles Presser	0.445					
012.04.21.05.019.000	William & Susie Seager		262		1.82**		
012.04.21.06.030.000	John Stroud	0.47					
012.04.21.07.005.000	Gary Vanden Boom	0.44					
012.04.21.05.022.000	William Zamecnik	4.96					

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2010 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)
012.04.21.07.018.000	119	Anderson	0.488		
940.9997.000	14	Couillard	0.59		
939.9999.000	138	Grandlich	0.31		
012.04.21.06.007.000	155	Kochnowicz	0.93		
941.9983.000	38	Lange	0.668		
941.9996.000	39	Losey	1.43		
892.9994.000	814	Magarich	0.37		
010.04.20.01.020.000	43	Mente	0.714		
939.9996.005	165	Millin	0.546		
012.04.21.06.042.010	88	Nowag	0.326		
012.04.21.05.013.000	815	Schultz		318	
012.04.21.05.019.000	146	Seager	0.548		0.62**
012.04.21.06.025.000	807	Eperen	0.343		
012.04.21.06.019.000	78	Vandenboom	0.474		

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2009 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Bromodichloromethane</u> (µg/L)	<u>Chloroform</u> (µg/L)
012.04.21.06.036.000	36	Knox			0.05	0.2
012.04.21.05.010.000	5	Bedalov	0.564			
012.04.21.07.010.000	8	Block	0.367			
012.04.21.06.043.000	93	Bunich	0.664			
012.04.21.06.010.020	13	Carriveau	0.31	255		
985.9999.000	135	Fredrickson	0.632	299		
012.04.21.06.021.000	73	Heritz	0.43			
012.04.21.06.057.000	809	Jorgenson	0.332			
012.04.21.06.036.000	36	Knox	1.87			
012.04.21.05.013.000	815	Knutsen		320		
012.04.21.06.064.000	45	Metz	0.427			
012.04.21.06.066.000	48	Olson	0.532	292		
012.04.21.05.002.000	102	Perdzeck	0.33			
938.9998.000	103	Presser	0.58			
935.9998.000	114	Rynders	0.43			
012.04.21.05.024.000	105	Sinda		277		
012.04.21.07.019.000	76	Schingeck	0.40			
012.04.21.06.019.000	78	VandenBoom	0.363			
012.04.21.05.005.000	109	Vretenar		364		
012.04.21.06.002.000	66	Welch	0.332			
012.04.21.05.022.000	680	Zamecnik	7.68			

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2008 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)	<u>Chloro- methane</u> (µg/L)	<u>Toluene</u> (µg/L)
985.9997.001	118	Acker	0.46				
012.04.21.05.012.010	149	Arnold		350			
012.04.21.06.059	125	Blazek		260			
012.04.21.07.010	8	Block	0.35	260			
939.9996.002	92	Bonney	0.33				
938.9999.004	110	Kopp			0.21		
985.9999.000	135	Fredrickson	0.69	340			
012.04.21.06.003	25	Gellings	0.39	290			
012.04.21.06.062.000	141	Hackstein		350			
941.9996.000	39	Losey	0.42				
012.04.21.06.058	810	Mateika		340			
010.04.20.01.027	23	Parsons	0.51				
940.9989.000	50	Penn					0.36
012.04.21.05.002	102	Perdzock		280	0.28		
010.04.20.01.013	53	Sanford	0.35				
012.04.21.05.019	146	Seager	0.48	250	0.84		
938.9999.005	181	Sumiejski	0.48				
012.04.21.05.016	64	Theys/Wilke		260			
012.04.21.06.025	807	Van Eperen	0.54				
944.9996.000	778	Vogt/Stieff	0.33			6.40**	
935.9995.000	111	Woelbing	1.40				
012.04.21.05.022.000	680	William Zamecnik	7.68				

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2007 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)	<u>Styrene</u> (µg/L)	<u>Toluene</u> (µg/L)
012.04.21.06.012.100	294	Bayer	0.42	250			
938.9997.000	98	Comp	0.31				
939.9999.000	138	Grandlich	0.93				
012.04.21.06.062.000	141	Hackstein		360			
936.9998.003	121	Hinkel	0.48				
012.04.21.07.007.000	147	Kietzke	0.38				
012.04.21.06.007.000	155	Kochnowicz	1.30				
938.9999.004	110	Kopp			0.16		
012.04.21.06.059.004	177	Krause	0.49				
941.9985.000	20	Latus	0.36				
941.9997.000	42	Mateicka, Sr.		370			
010.04.20.01.001.000	17	Olson	0.32	340			0.48
940.9989.000	50	Penn	0.97				
012.04.21.05.002.000	102	Perdzeck		260	0.22		
938.9998.000	103	Presser			0.61**		
010.04.20.01.013.000	53	Sanford	0.37				
012.04.21.05.019.000	146	Seager	0.37	250	0.37		
012.04.21.06.025.000	807	Van Eperen	0.48	250			
012.04.21.06.017.000	65	VandenBoom	0.51	260	0.74**		
935.9999.009	808	Woelbing				0.20	

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2006 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)	<u>Chloroform</u> (µg/L)
985.9997.003	355	Acker	1.40			
012.04.21.05.010.000	149	Arnold		340		0.16
012.04.21.06.012.100	294	Bayer	0.42	260		
012.04.21.07.011.000	5	Bedalov	0.36	260		
012.04.21.06.059.016	125	Blazek		270		
012.04.21.07.008.000	72	Carlson	0.55			
012.04.21.06.010.020	13	Carriveau		360		
940.9997.000	14	Couillard	0.35			
985.9994.002	94	Drzewieki,				0.33
012.04.21.06.042.000	89	Gardner	0.36	300		
012.04.21.06.008.000	24	Gellings	0.74	270		
012.04.21.06.044.000	6	Hill		330		
941.9982.000	38	Lange	0.62			
939.9998.001	165	Millin	0.62			
012.04.21.06.066.000	48	Olson	0.30	370		
940.9989.000	50	Penn	0.37		2.7**	
012.04.21.05.002.000	102	Perdzock		270	0.25	
012.04.21.06.013.000	86	Thiessenhusen	0.42			
012.04.21.06.017.000	65	VandenBoom	0.39			
935. 9999.009	808	Woelbing	1.50			
012.04.21.06.046.000	67	Worman	0.42	310		
012.04.21.06.032.000	80	Ziemer	1.30	250		

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2005 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)	<u>Chloro- methane</u> (µg/L)	<u>Chlorofo rm</u> (µg/L)	<u>Toluene</u> (µg/L)
012.04.21.07.018.000	119	Anderson	0.31					
012.04.21.05.010.000	149	Arnold	0.33	340				
010.04.20.01.026.000	12	Bruhn		260				
987.9997.002	167	Coblentz	0.43	310				
012.04.21.06.048.000	46	Fleming, Sr.		320				
012.04.21.06.004.000	803	Gellings	0.46	280				
939.9999.000	138	Grandlich	0.97					
012.04.21.07.002.000	28	Hebron	0.36					
012.04.21.06.021.00	73	Heritz	0.48					
938.9999.004	110	Kopp	0.31		0.18			0.19
012.04.21.06.035.000	7	Ludke	0.31					
939.9995.000	722	Machulak	0.81					
012.04.21.06.060.000	81	Meyer	0.57	270				
939.9996.005	165	Millin	0.55				1.2**	
012.04.21.06.042.010	88	Nowag	0.71	390				
989.9998.003	3	Schill						
012.04.21.07.019.000	76	Schingeck	0.56					
012.04.21.05.019.000	146	Seager	0.53	250	0.37			
012.04.21.05.024.000	105	Sinda		310				
944.9999.002	782	Stanisz				0.19		
012.04.21.06.025.000	807	Van Eperen		260				
012.04.21.06.019.000	78	VandenBoom	0.36	250	0.16			

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2004 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)	<u>Toluene</u> (µg/L)
939.9996.006	91	Berndt	0.42			
012.04.21.07.010.00	8	Block	0.35	260		
010.04.20.01.001.000	16	DeBack	0.46	300		
892.9991.000	214	Diekow	1			
012.04.21.06.048.000	46	Fleming, Sr.		300		
012.04.21.06.008.000	24	Gellings		250		0.16
012.04.21.06.003.000	25	Gellings		250		
012.04.21.05.021.000	26	Gellings	0.35			
012.04.21.06.044.000	6	Hill		330		
012.04.21.06.042.010	88	Nowag	0.34	370		
012.04.21.06.037.000	49	Olson	0.52		0.94**	
940.9989.000	50	Penn	0.35		0.93**	
938.9999.006	716	Werther			0.27	

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2003 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)
985.9996.000	117	Acker	1		
012.04.21.07.018.000	119	Anderson	0.33		
942.9998.000	69	Balisteri	0.32		0.87**
012.04.21.06.010.020	13	Carriveau		390	
012.04.21.05.007.000	131	Drewitz	0.36	250	
985.9999.000	135	Fredrickson	0.68	310	
938.9992.000	705	Immekus	0.51		
012.04.21.07.007.000	147	Kietzke	0.51		
012.04.21.06.059.004	177	Krause	0.55	270	
941.9985.000	20	Latus	0.31		
941.9997.000	42	Mateicka, Sr.	0.53	320	
012.04.21.07.006.000	100	Mathews			0.44
939.9996.005	165	Millin	0.49		
012.04.21.06.066.000	48	Olson	0.34	320	
012.04.21.05.002.000	102	Perdzock			0.38
010.04.20.01.013.000	53	Sandford	0.35		
Surface Water			0.31		
012.04.21.05.005.000	109	Vretenar		360	
935.9999.009	808	Woelbing	6.1		
012.04.21.06.046.000	67	Worman	0.33	270	
012.04.21.06.032.000	80	Zierner	2.9		

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2002 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)	<u>Chloroform</u> (µg/L)
01204.21.07.011.000	5	Bedalov	0.43	260		
012.04.21.06.059.016	125	Blazek		260		
012.04.21.07.010.00	8	Block		280		
987.9997.002	167	Coblentz	0.95	370		0.75
012.04.21.06.008.000	24	Gellings	0.62	270		
012.04.21.06.003.000	25	Gellings		270		
012.04.21.06.062.000	141	Hackstein		360		
012.04.21.06.021.000	73	Heritz	1.2			
010.04.20.01.004.000	30	Hintz	0.35	250		
Unknown	Unknown	Kolp		350		
012.04.21.06.035.000	7	Ludke	0.3			
940.9989.000	50	Penn			2.8**	
012.04.21.06.042.010	88	Nowag		340		
012.04.21.06.041.000	55	Schemeit	0.65			
012.04.21.07.019.000	76	Schingeck	0.38			
012.04.21.06.055.000	82	Swenson	0.87			
012.04.21.06.017.000	65	VandenBoom	0.41			
012.04.21.06.019.000	78	VandenBoom	0.51		0.33	
012.04.21.05.005.000	109	Vretenar		390		
938.9997.000	98	Whipple			0.25	
012.04.21.06.013.000	86	Williams	0.52	250		
012.04.21.05.022.000	68	Zamecnik	0.45			

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2001 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)
012.04.21.06.019.000	78	VandenBoom			0.33
012.04.21.07.016.000	35	Janikowski			0.36
012.04.21.06.030.000	62	Stroud	0.47		
012.04.21.06.064.000	45	Metz	0.32	250	
941.9997.000	42	Mateicka, Sr.	0.39	350	
941.9982.000	745	Lange	0.62		
012.04.21.05.021.000	26	Gellings	0.58		
012.04.21.06.042.000	89	Gardner	0.48	290	
012.04.21.06.048.000	46	Fleming	0.33	300	
010.04.20.01.031.000	1	Abramowski		260	

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

2000 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)	<u>Chloro- methane</u> (µg/L)	<u>Ortho Xylene</u> (µg/L)	<u>1,2,4.Trim ethylbenz ene</u> (µg/L)
985.9996.000	117	Acker	3.2					
012.04.21.07.018.000	119	Anderson	0.49					
942.9998.000	69	Balisteri			0.56**			
939.9996.006	91	Berndt	0.47					
012.04.21.06.059.016	125	Blazek	0.35	250				
010.04.20.01.001.000	16	DeBack		280	0.13			
985.9999.000	135	Fredrickson	0.53	300				
012.04.21.06.042.000	89	Gardner	0.59	290				
012.04.21.06.004.000	803	Gellings	0.49	260				
939.9999.000	138	Grandlich	0.35					
012.04.21.06.042.000	140	Haasch		270				
936.9997.000	95	Hinkel	0.34					
010.04.20.01.031.000	1	Abramowski			0.25			
Unknown	Unknown	Kolp	0.31	300				
941.9997.000	42	Mateicka, Sr.	0.39	340				
010.04.20.01.020.000	44	Mente	0.99					
939.9996.005	165	Millin	0.47					0.27
012.04.21.06.037.000	49	Olson	0.52		0.92**			
012.04.21.06.066.000	48	Olson	0.79	300				
012.04.21.05.002.000	102	Perdzock		260	0.33			
012.04.21.06.069.000	192	Prodoehl	0.37	420			0.12	
935.9994.002	114	Rynders						
944.9998.000	107	Stick	0.36					
Surface Water			1.7					
938.9999.005	181	Tomczak	0.54					
012.04.21.06.019.000	78	VandenBoom	0.59			0.29		
938.9997.000	98	Whipple	0.36		0.51			

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

1999 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)	<u>Chloroform</u> (µg/L)	<u>Toluene</u> (µg/L)
010.04.20.01.001.000	90	Alex	1.7			0.44	
942.9998.000	69	Balisteri				0.32	
012.04.21.06.027.000	4	Barbian	9.2				
01204.21.07.011.000	5	Bedalov	0.37				
939.9996.006	91	Berndt	0.37				0.13
012.04.21.07.010.00	8	Block	0.51				
012.04.21.06.043.000	93	Buncich	0.42				
940.9997.000	14	Couillard	0.33				
010.04.20.01.001.000	16	DeBack	0.3				
010.04.20.01.005.000	70	Gaffney	0.37				
012.04.21.06.003.000	25	Gellings	1.2				
012.04.21.06.031.000	27	Harris	0.32				
012.04.21.06.021.00	73	Heritz	0.43				
936.9997.000	95	Hinkel	0.38				
012.04.21.06.013.000	86	Hubbard	0.46				
012.04.21.06.057.000	809	Jorgenson	0.51				
010.04.20.01.031.000	1	Abramowski			0.22		
938.9999.004	110	Kopp	0.42				
941.9982.000	38	Lange	0.36				
012.04.21.06.038.000	63	Langfeldt	0.5				
941.9997.000	42	Mateicka, Sr.	0.35				
012.04.21.06.066.000	48	Olson	0.32				
012.04.21.06.037.000	49	Olson	0.44		0.44		
940.9989.000	50	Penn	1.3		0.7**		
012.04.21.05.002.000	102	Perdzock			0.29		
010.04.20.01.013.000	53	Sandford	0.45				
012.04.21.05.009.000	104	Savenac	0.5				
012.04.21.07.019.000	76	Schingeck	0.41				
012.04.21.06.040.000	56	Schmid	0.36				
944.9998.000	107	Stick				0.26	0.2
Trip Blank							
012.04.21.06.019.000	78	VandenBoom	0.59				
938.9997.000	98	Whipple			0.35		

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

Continued – 1999 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)	<u>Chloroform</u> (µg/L)	<u>Toluene</u> (µg/L)
935. 9999.009	808	Woelbing	0.88				
012.04.21.05.022.000	68	Zamecnik					0.13

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ

1998 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)
940.9997.000	14	Couillard	0.36		
892.9991.000	214	Diekow	0.78		
012.04.21.06.008.000	24	Gellings	0.72		
012.04.21.06.003.000	25	Gellings	0.35		
012.04.21.06.057.000	809	Jorgenson	0.4	250	
010.04.20.01.031.000	1	Abramowski			0.27
012.04.21.06.066.000	48	Olson	1.2	250	
012.04.21.06.037.000	49	Olson	0.37		

1997 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)	<u>1,1,1.Trichloroethane</u> (µg/L)
012.04.21.07.016.000	35	Janikowski	0.38		0.094	
941.9996.000	39	Losey	0.3			0.06
010.04.20.01.020.000	44	Mente	1		0.13	
012.04.21.07.017.000	40	Zirzow			0.25	

1996 Residential Well Samples Exceeding Constituent LOD

<u>Tax ID</u>	<u>Well ID</u>	<u>Owner</u>	<u>Iron*</u> (mg/L)	<u>Sulfate*</u> (mg/L)	<u>Dichlorodifluoromethane</u> (µg/L)
012.04.21.06.010.020	13	Carriveau		270	
012.04.21.06.048.000	46	Fleming, Sr.		280	
010.04.20.01.005.000	70	Gaffney	0.3		
941.9997.000	42	Mateicka, Sr.	0.52	310	0.16
010.04.20.01.003.000	87	Meyers	0.49		
012.04.21.06.046.000	67	Worman		260	

* Exceedence of the Federal Secondary Drinking Water Standards

** Above the LOQ