

Summary

UWEX Private Well Project

Green County - 2018

Decatur - Jefferson - Spring Grove - Sylvester

3/31/2020

11:35 AM

Total Number Samples: 96

Sample Dates: 11/11/2018 to 11/12/2018

Reason for Test	Last Test (yr)		Problems		Treatment Sys		Depth (ft)	Well	Casing	Water	Well Diam (in)		
Curious	85%	Never	7%	Color	5%	Softener	82%	... 25	1%	1%	4%	... 3	4%
Problems	3%	< 1	3%	Taste	2%	R/O	8%	26-50	1%	1%	4%	4 - 9	43%
Regular	11%	1 - 2	9%	Odor	1%	Carb Filt	9%	51-100	8%	14%	6%	10 - 18	1%
Required	0%	2 - 5	19%	Corr	1%	Neutral	0%	101-150	7%	10%	6%	18 +	0%
Bac Retest	1%	5 - 10	19%	Health	1%	Part Filt	22%	151-200	12%	4%	0%		
Disinfect	2%	10 +	20%	Other	8%	Iron Filt	4%	201 ...	9%	0%	0%		
Infant...	4%	Unk	17%	None	71%	Other	6%						
Other	9%												

pH		
... 5.00	0	0%
5.01 - 6.00	0	0%
6.01 - 7.00	1	1%
7.01 - 8.00	80	83%
8.01 - 9.00	15	16%
9.01 ...	0	0%
Avg: 7.74	for	96 Samples

Conductivity (umhos/cm)		
... 100	1	1%
101 - 250	1	1%
251 - 500	12	12%
501 - 750	59	61%
751 - 1000	23	24%
1001 ...	0	0%
Avg: 638	for	96 Samples

Alkalinity (mg/L CaCO3)		
... 50	2	2%
51 - 100	1	1%
101 - 200	13	14%
201 - 300	32	33%
301 - 400	48	50%
401 ...	0	0%
Avg: 280	for	96 Samples

Total Hardness (mg/L CaCO3)		
... 50	7	7%
51 - 100	2	2%
101 - 200	6	6%
201 - 300	20	21%
301 - 400	49	51%
401 ...	12	12%
Avg: 305	for	96 Samples

Nitrate (mg/L as N)		
None Detected	10	10%
... 2.0	12	12%
2.1 - 5.0	23	24%
5.1 - 10.0	25	26%
10.1 - 20.0	24	25%
20.1 ...	2	2%
Avg: 7	for	96 Samples

Chloride (mg/L)		
None Detected	0	0%
... 10	35	36%
11 - 50	51	53%
51 - 100	6	6%
101 - 200	4	4%
201 ...	0	0%
Avg: 24.5	for	96 Samples

Saturation Index		
... -3.0	0	0%
-2.9 - -2.0	3	3%
-1.9 - -1.0	2	2%
-0.9 - 0.0	5	5%
0.1 - 1.0	86	90%
1.1 ...	0	0%
Avg: 0.3	for	96 Samples

Coliform Bacteria		
Bact Samples	96	
Pos Bacteria	16	17%
E. coli Bacteria		
E. coli Samples	16	
Pos E. coli	3	19%

Atrazine Screen* (ppb)		
None Detected	27	37%
... 0.3	40	55%
0.4 - 1.0	4	5%
1.1 - 2.0	2	3%
2.1 - 3.0	0	0%
3.1 ...	0	0%
Avg: 0.2	for	73 Samples

*Triazine screen before June 2008, then Diaminochlorotriazine (DACT).

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Arsenic (mg/L)

None Detected	54	77 %
... 0.010	16	23 %
0.011 - 0.050	0	0 %
0.051 - 0.100	0	0 %
0.101 - 0.150	0	0 %
0.151 ...	0	0 %
Avg: <0.005 for	70 Samples	

Calcium (mg/L)

None Detected	3	4 %
... 25	8	11 %
26 - 50	7	10 %
51 - 75	28	40 %
76 - 100	23	33 %
101 ...	1	1 %
Avg: 59.5 for	70 Samples	

Copper (mg/L)

None Detected	0	0 %
... 0.130	42	60 %
0.131 - 0.500	25	36 %
0.501 - 0.900	1	1 %
0.901 - 1.300	2	3 %
1.301 ...	0	0 %
Avg: 0.141 for	70 Samples	

Iron (mg/L)

None Detected	48	69 %
... 0.300	20	29 %
0.301 - 1.000	1	1 %
1.001 - 2.000	1	1 %
2.001 - 5.000	0	0 %
5.001 ...	0	0 %
Avg: 0.053 for	70 Samples	

Potassium (mg/L)

None Detected	1	1 %
... 20	68	97 %
21 - 40	0	0 %
41 - 60	1	1 %
61 - 80	0	0 %
81 ...	0	0 %
Avg: 1.7 for	70 Samples	

Magnesium (mg/L)

None Detected	3	4 %
... 20	12	17 %
21 - 40	28	40 %
41 - 60	27	39 %
61 - 80	0	0 %
81 ...	0	0 %
Avg: 31.8 for	70 Samples	

Manganese (mg/L)

None Detected	49	70 %
... 0.050	19	27 %
0.051 - 0.300	2	3 %
0.301 - 0.500	0	0 %
0.501 - 1.000	0	0 %
1.001 ...	0	0 %
Avg: 0.006 for	70 Samples	

Sodium (mg/L)

None Detected	0	0 %
... 25	56	80 %
26 - 50	3	4 %
51 - 75	3	4 %
76 - 100	1	1 %
101 ...	7	10 %
Avg: 25.4 for	70 Samples	

Lead (mg/L)

None Detected	64	91 %
... 0.015	4	6 %
0.016 - 0.025	2	3 %
0.026 - 0.050	0	0 %
0.051 - 0.100	0	0 %
0.101 ...	0	0 %
Avg: <0.002 for	70 Samples	

Sulfate (mg/L)

None Detected	0	0 %
...25	45	64 %
26 - 50	23	33 %
51 - 75	2	3 %
76 - 100	0	0 %
101 ...	0	0 %
Avg: 20.7 for	70 Samples	

Zinc (mg/L)

None Detected	2	3 %
... 0.100	53	76 %
0.101 - 0.500	11	16 %
0.501 - 1.000	2	3 %
1.001 - 5.000	2	3 %
5.001 ...	0	0 %
Avg: 0.14 for	70 Samples	