

Summary

UWEX Private Well Project

Green County

County Wide, March 2024

6/28/2024

8:45 AM

Total Number Samples: 42

Sample Dates: 3/18/2024 to 3/19/2024

Reason for Test		Last Test (yr)		Problems		Treatment Sys		Depth (ft)	Well	Casing	Water	Well Diam (in)	
Curious	93 %	Never	10 %	Color	10 %	Softener	74 %	... 25	0%	0%	7%	... 3	0%
Problems	10 %	< 1	5 %	Taste	5 %	R/O	12 %	26-50	0%	2%	0%	4 - 9	38%
Regular	7 %	1 - 2	0 %	Odor	5 %	Carb Filt	2 %	51-100	5%	19%	2%	10 - 18	0%
Required	0 %	2 - 5	19 %	Corr	7 %	Neutral	0 %	101-150	2%	2%	5%	18 +	0%
Bac Retest	2 %	5 - 10	21 %	Health	2 %	Part Filt	7 %	151-200	7%	0%	2%		
Disinfect	0 %	10 +	24 %	Other	2 %	Iron Filt	2 %	201 ...	14%	2%	0%		
Infant...	2 %	Unk	17 %	None	60 %	Other	0 %						
Other	<1 %												

pH

... 5.00	0	0 %
5.01 - 6.00	0	0 %
6.01 - 7.00	0	0 %
7.01 - 8.00	3	7 %
8.01 - 9.00	38	93 %
9.01 ...	0	0 %
Avg: 8.18	for	41 Samples

Conductivity (umhos/cm)

... 100	0	0 %
101 - 250	0	0 %
251 - 500	4	10 %
501 - 750	32	78 %
751 - 1000	5	12 %
1001 ...	0	0 %
Avg: 631	for	41 Samples

Alkalinity (mg/L CaCO3)

... 50	0	0 %
51 - 100	1	2 %
101 - 200	2	5 %
201 - 300	18	44 %
301 - 400	18	44 %
401 ...	2	5 %
Avg: 298	for	41 Samples

Total Hardness (mg/L CaCO3)

... 50	4	10 %
51 - 100	0	0 %
101 - 200	2	5 %
201 - 300	1	2 %
301 - 400	18	44 %
401 ...	16	39 %
Avg: 348	for	41 Samples

Nitrate (mg/L as N)

None Detected	3	7 %
... 2.0	5	12 %
2.1 - 5.0	8	20 %
5.1 - 10.0	12	29 %
10.1 - 20.0	13	32 %
20.1 ...	0	0 %
Avg: 7.4	for	41 Samples

Chloride (mg/L)

None Detected	0	0 %
... 10	12	29 %
11 - 50	28	68 %
51 - 100	1	2 %
101 - 200	0	0 %
201 ...	0	0 %
Avg: 19.9	for	41 Samples

Saturation Index

... -3.0	0	0 %
-2.9 - -2.0	0	0 %
-1.9 - -1.0	3	7 %
-0.9 - 0.0	1	2 %
0.1 - 1.0	26	63 %
1.1 ...	11	27 %
Avg: 0.7	for	41 Samples

Coliform Bacteria

Bact Samples	40
Pos Bacteria	5 12 %

E. coli Bacteria

E. coli Samples	6
Pos E. coli	0 0 %

Atrazine Screen* (ppb)

None Detected	27	77 %
... 0.3	4	11 %
0.4 - 1.0	4	11 %
1.1 - 2.0	0	0 %
2.1 - 3.0	0	0 %
3.1 ...	0	0 %
Avg: <0.1	for	35 Samples

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

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Arsenic (mg/L)

None Detected	21	64 %
... 0.010	12	36 %
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	33 Samples	

Calcium (mg/L)

None Detected	1	3 %
... 25	8	24 %
26 - 50	1	3 %
51 - 75	12	36 %
76 - 100	9	27 %
101 ...	2	6 %
Avg: 57.7 for	33 Samples	

Copper (mg/L)

None Detected	0	0 %
... 0.130	21	64 %
0.131 - 0.500	11	33 %
0.501 - 0.900	0	0 %
0.901 - 1.300	0	0 %
1.301 ...	1	3 %
Avg: 0.175 for	33 Samples	

Iron (mg/L)

None Detected	24	73 %
... 0.300	8	24 %
0.301 - 1.000	1	3 %
1.001 - 2.000	0	0 %
2.001 - 5.000	0	0 %
5.001 ...	0	0 %
Avg: 0.02 for	33 Samples	

Potassium (mg/L)

None Detected	1	3 %
... 20	32	97 %
21 - 40	0	0 %
41 - 60	0	0 %
61 - 80	0	0 %
81 ...	0	0 %
Avg: 1.7 for	33 Samples	

Magnesium (mg/L)

None Detected	1	3 %
... 20	8	24 %
21 - 40	3	9 %
41 - 60	20	61 %
61 - 80	1	3 %
81 ...	0	0 %
Avg: 34.1 for	33 Samples	

Manganese (mg/L)

None Detected	24	73 %
... 0.050	9	27 %
0.051 - 0.300	0	0 %
0.301 - 0.500	0	0 %
0.501 - 1.000	0	0 %
1.001 ...	0	0 %
Avg: 0.002 for	33 Samples	

Sodium (mg/L)

None Detected	0	0 %
... 25	25	76 %
26 - 50	2	6 %
51 - 75	0	0 %
76 - 100	0	0 %
101 ...	6	18 %
Avg: 39.3 for	33 Samples	

Lead (mg/L)

None Detected	29	88 %
... 0.015	4	12 %
0.016 - 0.025	0	0 %
0.026 - 0.050	0	0 %
0.051 - 0.100	0	0 %
0.101 ...	0	0 %
Avg: <0.002 for	33 Samples	

Sulfate (mg/L)

None Detected	2	6 %
...25	21	64 %
26 - 50	8	24 %
51 - 75	2	6 %
76 - 100	0	0 %
101 ...	0	0 %
Avg: 22.7 for	33 Samples	

Zinc (mg/L)

None Detected	0	0 %
... 0.100	25	76 %
0.101 - 0.500	4	12 %
0.501 - 1.000	2	6 %
1.001 - 5.000	2	6 %
5.001 ...	0	0 %
Avg: 0.279 for	33 Samples	