

Summary

UWEX Private Well Project

Columbia Co. Well Testing Summary

2007-2010

10/5/2020

2:22 PM

Total Number Samples: 621

Sample Dates: 4/29/2007 to 8/9/2010

Reason for Test		Last Test (yr)		Problems		Treatment Sys		Depth (ft) Well		Casing	Water	Well Diam (in)	
Curious	0%	Never	2%	Color	7%	Softener	71%	... 25	<1%	2%	6%	... 3	3%
Problems	0%	< 1	2%	Taste	5%	R/O	2%	26-50	<1%	5%	6%	4 - 9	72%
Regular	0%	1 - 2	4%	Odor	5%	Carb Filt	<1%	51-100	7%	12%	9%	10 - 18	<1%
Required	0%	2 - 5	11%	Corr	2%	Neutral	0%	101-150	12%	11%	4%	18 +	<1%
Bac Retest	0%	5 - 10	17%	Health	<1%	Part Filt	4%	151-200	8%	5%	2%		
Disinfect	0%	10 +	17%	Other	6%	Iron Filt	3%	201 ...	10%	4%	2%		
Infant...	0%	Unk	28%	None	61%	Other	<1%						
Other	0%												

pH			Conductivity (umhos/cm)			Alkalinity (mg/L CaCO ₃)		
... 5.00	0	0 %	... 100	2	<1 %	... 50	3	<1 %
5.01 - 6.00	0	0 %	101 - 250	5	<1 %	51 - 100	5	<1 %
6.01 - 7.00	2	<1 %	251 - 500	188	31 %	101 - 200	54	9 %
7.01 - 8.00	212	34 %	501 - 750	298	48 %	201 - 300	392	64 %
8.01 - 9.00	402	65 %	751 - 1000	91	15 %	301 - 400	155	25 %
9.01 ...	0	0 %	1001 ...	32	5 %	401 ...	8	1 %
Avg: 7.99	for	616 Samples	Avg: 617	for	616 Samples	Avg: 271	for	617 Samples

Total Hardness (mg/L CaCO ₃)			Nitrate (mg/L as N)			Chloride (mg/L)		
... 50	64	10 %	None Detected	97	16 %	None Detected	2	<1 %
51 - 100	2	<1 %	... 2.0	105	17 %	... 10	274	44 %
101 - 200	37	6 %	2.1 - 5.0	130	21 %	11 - 50	261	42 %
201 - 300	220	36 %	5.1 - 10.0	143	23 %	51 - 100	46	7 %
301 - 400	232	38 %	10.1 - 20.0	117	19 %	101 - 200	19	3 %
401 ...	62	10 %	20.1 ...	25	4 %	201 ...	15	2 %
Avg: 281	for	617 Samples	Avg: 6.2	for	617 Samples	Avg: 27.9	for	617 Samples

Saturation Index			Coliform Bacteria			Atrazine Screen* (ppb)		
... -3.0	1	<1 %	Bact Samples	616		None Detected	237	54 %
-2.9 - -2.0	1	<1 %	Pos Bacteria	77	12 %	... 0.3	144	33 %
-1.9 - -1.0	22	4 %				0.4 - 1.0	44	10 %
-0.9 - 0.0	24	4 %	E. coli Bacteria			1.1 - 2.0	11	3 %
0.1 - 1.0	443	72 %	E. coli Samples	77		2.1 - 3.0	2	<1 %
1.1 ...	125	20 %	Pos E. coli	2	3 %	3.1 ...	1	<1 %
Avg: 0.7	for	616 Samples				Avg: 0.2	for	439 Samples

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

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Arsenic (mg/L)

None Detected	304	70 %
... 0.010	117	27 %
0.011 - 0.050	10	2 %
0.051 - 0.100	0	0 %
0.101 - 0.150	1	<1 %
0.151 ...	0	0 %
Avg: <0.005 for	432 Samples	

Calcium (mg/L)

None Detected	23	5 %
... 25	62	14 %
26 - 50	67	16 %
51 - 75	184	43 %
76 - 100	84	19 %
101 ...	12	3 %
Avg: 53.6 for	432 Samples	

Copper (mg/L)

None Detected	6	1 %
... 0.130	181	42 %
0.131 - 0.500	178	41 %
0.501 - 0.900	38	9 %
0.901 - 1.300	14	3 %
1.301 ...	15	3 %
Avg: 0.296 for	432 Samples	

Iron (mg/L)

None Detected	84	19 %
... 0.300	316	73 %
0.301 - 1.000	13	3 %
1.001 - 2.000	8	2 %
2.001 - 5.000	9	2 %
5.001 ...	2	<1 %
Avg: 0.207 for	432 Samples	

Potassium (mg/L)

None Detected	55	13 %
... 20	371	86 %
21 - 40	1	<1 %
41 - 60	1	<1 %
61 - 80	1	<1 %
81 ...	3	<1 %
Avg: 2.8 for	432 Samples	

Magnesium (mg/L)

None Detected	28	6 %
... 20	70	16 %
21 - 40	224	52 %
41 - 60	102	24 %
61 - 80	5	1 %
81 ...	3	<1 %
Avg: 29.9 for	432 Samples	

Manganese (mg/L)

None Detected	216	50 %
... 0.050	185	43 %
0.051 - 0.300	28	6 %
0.301 - 0.500	1	<1 %
0.501 - 1.000	2	<1 %
1.001 ...	0	0 %
Avg: 0.015 for	432 Samples	

Sodium (mg/L)

None Detected	2	<1 %
... 25	287	66 %
26 - 50	35	8 %
51 - 75	21	5 %
76 - 100	12	3 %
101 ...	75	17 %
Avg: 39.7 for	432 Samples	

Lead (mg/L)

None Detected	197	46 %
... 0.015	204	47 %
0.016 - 0.025	17	4 %
0.026 - 0.050	7	2 %
0.051 - 0.100	4	<1 %
0.101 ...	3	<1 %
Avg: 0.005 for	432 Samples	

Sulfate (mg/L)

None Detected	1	<1 %
...25	343	79 %
26 - 50	76	18 %
51 - 75	8	2 %
76 - 100	2	<1 %
101 ...	2	<1 %
Avg: 19.1 for	432 Samples	

Zinc (mg/L)

None Detected	10	2 %
... 0.100	154	36 %
0.101 - 0.500	133	31 %
0.501 - 1.000	53	12 %
1.001 - 5.000	69	16 %
5.001 ...	13	3 %
Avg: 0.727 for	432 Samples	