

### Knoxville-Area Water Analyses (sorted by alkalinity ... more or less)

Source	Year	pH	Na sodium	Ca calcium	Mg magnesium	Cl <sup>-</sup> chloride	SO <sub>4</sub> <sup>2-</sup> sulfate	HCO <sub>3</sub> <sup>-</sup> bicarbonate	CO <sub>3</sub> carbonate	Alka- linity	Hard- ness	TDS	Nitrate
Reverse Osmosis De-ionized (RO-DI)	2013	7.3	< 1	1	< 1	< 1	< 3	6	< 1	5	3	20	0.1
(Coralife CD-18783 four-stage)	08/2014	5.8	< 1	1	< 1	< 1	< 3	< 1	< 1	<1	3	52	<0.1
	05/2015	6.1	<1	<1	<1	<1	< 3	19	<1	16	<1	47	<0.1
Year-old membrane	11/2015	6.6	<1	1	<1	<1	< 3	<1	<1	<1	3	7	<0.1
New membrane	11/2015	5.5	<1	1	<1	<1	< 3	7	<1	6	3	<6	<0.1
	03/2017	7.1	<1	1	<1	<1	<3	<1	<1	<1	3	<6	<0.1
Crossville	2010	7.4	8	7	<1	27	12	?	< 1	20	?	n/a	n/a
Tellico Area Service System	01 / 2013	7.5	12	4	<1	9	6	32	< 1	27	14	56	0.2
	08/2014	7.6	6	9	2	7	3	26	< 1	22	31	55	<0.1
	05/2015	7.3	7	8	2	7	6	51	<1	42	28	58	0.1
	03/2017	7.3	10	5	1	9	6	11	<1	9	17	49	0.1
Knox Chapman	2010	7.5	8	6	3	12	18	37	< 1	31	28	n/a	n/a
	2013	7.5	8	12	3	11	27	44	< 1	36	43	86	0.5
	05/2015	7.7	12	22	6	12	12	106	<1	88	80	134	0.4
	11/2015	7.5	13	15	4	10	15	56	<1	46	54	98	0.3
Sawworks	11/2015	7.4	13	20	6	17	18	44	<1	36	75	124	0.3
Cumberland Utility District	08/2014	7.1	11	15	4	14	12	45	< 1	37	54	100	0.1
Maryville City	2013	7.5	3	12	3	6	9	44	< 1	36	43	67	0.3
	08 / 2014	7.8	3	21	5	8	6	77	<1	64	73	101	0.2
	05/2015	7.4	4	18	4	8	6	88	<1	72	62	92	0.3
	11/2015	7	3	16	4	4	6	56	<1	46	57	71	0.2
	03/2017	7.1	3	17	4	7	6	42	<1	35	59	74	0.2
	07/2018	7.2	6	9	3	6	2	35	<1	28	35	53	0.2

Source	Year	pH	Na sodium	Ca calcium	Mg magnesium	Cl <sup>-</sup> chloride	SO <sub>4</sub> <sup>2-</sup> sulfate	HCO <sub>3</sub> <sup>-</sup> bicarbonate	CO <sub>3</sub> carbonate	Alka- linity	Hard- ness	TDS	Nitrate
Alcoa	11/2015	8	8	14	3	5	6	56	<1	46	48	76	0.2
South Blount County Utility District	08/2014	8.4	5	20	<1	5	<1	63	<1	53	54	80	0.1
	05/2015	6.4	4	14	1	3	<1	63	<1	52	39	70	0.1
	11/2015	7.5	5	15	<1	3	<1	56	<1	46	42	58	0.2
	03/2017	8	7	18	1	6	<3	54	<1	45	49	71	0.1
Sevierville	08/2014	8	13	18	3	11	15	64	<1	53	58	113	0.1
	07/2018	7.1	8	14	2	7	3	43	<1	35	43	76	0.3
Kodak	2010	7.7	18	25	5	12	28	?	<1	70	?	n/a	n/a
Knoxville Utilities Board (KUB)	2010	7.5	10	19	6	13	24	78	<1	64	73	n/a	n/a
	2013	7.7	16	27	6	15	36	79	<1	65	93	170	0.5
	08/2014	7.7	14	28	7	21	21	96	<1	79	99	166	0.2
	05/2015	7.4	10	26	7	18	20	119	<1	98	94	148	0.4
	11/2015	7.4	13	21	5	15	15	87	<1	71	73	123	0.3
	02/2016	7.5	11	26	6	12	3	98	<1	80	90	125	0.3
	08/2018	7.6	11	28	8	13	4	104	<1	85	103	143	0.3
Kingston	11/2015	7.6	12	20	8	11	12	87	<1	71	83	124	0.3
	01/2016	7.5	9	20	8	7	9	111	<1	92	83	134	0.3
	03/2017	7.4	11	25	7	11	12	94	<1	77	92	140	0.5
Blackberry Farm	2013	8	5	19	5	6	18	79	<1	70	68	106	0.5
Lenoir City Utility District	2013	7.7	6	24	6	11	27	85	<1	70	85	122	0.5
	05/2015	6.7	21	37	15	10	21	163	<1	134	155	201	0.6
North Anderson County Utility District	2010	7.5	7	31	11	21	33	128	<1	105	123	n/a	n/a
Northeast Knox County Utility District	2010	7.9	9	32	9	17	15	128	<1	105	118	n/a	n/a

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Oak Ridge City	2010	7.5	7	33	12	12	27	121	< 1	99	133	n/a	n/a
	2013	8	8	36	12	10	27	126	<1	113	140	194	0.3
	08/2014	7.7	7	37	11	12	24	141	<1	116	138	189	0.5
	05/2015	7.7	8	29	11	11	24	156	<1	129	129	191	0.5
	11/2015	7.4	8	41	13	10	24	155	<1	127	157	196	0.3
	03/2017	7.8	8	39	12	11	24	130	< 1	108	148	188	0.3
	07/2018	7.3	7	38	11	8	9	131	< 1	108	141	169	0.5
Whole-House Water Softener	07/2018	7.3	77	0	<1	12	8	158	<1	129	<1	186	0.4
Meigs County  (Meigs Spring)	2013	7.9	6	32	9	8	12	138	< 1	113	118	166	0.4
	11/2015	7.7	7	34	11	7	12	160	< 1	132	131	166	0.3
	03/2017	7.2	8	34	9	8	12	130	< 1	106	123	158	0.3
	03/2017	7.1	< 1	38	20	2	6	199	< 1	163	178	189	0.2
First Utility District (FUD)	2010	7.5	10	37	10	13	18	134	< 1	110	134	n/a	n/a
	2013	8.2	8	47	10	11	12	174	< 1	152	159	208	0.7
	05/2015	6.6	11	40	11	14	12	188	<1	154	146	203	0.4
	07/2018	7.6	11	28	8	13	4	100	<1	83	100	138	0.3
West Knox Utility District	2013	8.1	11	38	11	11	24	152	< 1	126	141	196	0.5
	03/2017	8	13	39	12	12	27	148	< 1	123	148	198	0.3
Hallsdale-Powell	2010	8	2	52	14	7	27	202	< 1	176	188	n/a	n/a
	2013	8.1	6	52	11	11	15	174	<1	152	176	219	0.7
	08/2014	7.7	7	39	11	10	24	160	<1	132	143	194	0.4
	05/2015	7.8	6	40	12	8	18	199	<1	164	150	202	0.4
	11/2015	7.8	6	53	15	9	15	228	<1	188	195	227	0.2
	03/2017	8	5	52	13	8	15	188	< 1	156	184	211	0.3
Jefferson City	2013	7.9	7	69	17	11	15	285	< 1	234	243	287	1.8
Love Creek Spring	2013	7.9	5	64	27	7	27	332	< 1	272	273	319	2.5





