

Appendix D

Water Quality Sampling Data

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- Stream Chemistry Data

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Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Station number	Date	Sample start time	Source	Hydrologic event	Temperature, air, degrees Celsius
Middle Creek near Emerald, Nebraska	--	7/14/1951	--	K-M, 1963	--	--
Middle Creek at SW 63rd St at Lincoln, Nebr.	06803170	5/1/2013	1300	USGS	9	4
Middle Creek at SW 63rd St at Lincoln, Nebr.	06803170	8/7/2013	1200	USGS	9	28.3
Middle Creek at SW 63rd St at Lincoln, Nebr.	06803170	11/5/2013	1700	USGS	J	4
Middle Creek at SW 40th street at Lincoln, Nebr.	06803170	8/28/1995	2010	USGS	9	26
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	4/26/1999	1735	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	5/4/1999	1010	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	5/11/1999	1010	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	5/18/1999	1230	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	5/25/1999	1315	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	6/3/1999	1200	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	6/8/1999	835	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	6/15/1999	810	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	6/22/1999	915	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	6/29/1999	830	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	7/8/1999	900	NDEQ	--	--

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Station name	Station number	Date	Sample start time	Source	Hydrologic event	Temperature, air, degrees Celsius
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	7/13/1999	805	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	7/13/1999	815	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	7/20/1999	715	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	7/27/1999	820	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	8/3/1999	909	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	8/10/1999	840	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	8/17/1999	820	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	8/24/1999	845	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	8/31/1999	950	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	9/9/1999	930	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	9/14/1999	1000	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	9/21/1999	930	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MDLCK130	9/29/1999	1000	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	4/28/2004	1100	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	5/4/2004	935	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	5/11/2004	1040	NDEQ	--	--

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Station name	Station number	Date	Sample start time	Source	Hydrologic event	Temperature, air, degrees Celsius
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	5/18/2004	1025	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	5/25/2004	1025	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	6/2/2004	1035	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	6/7/2004	1055	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	6/15/2004	1000	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	6/22/2004	1020	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	6/29/2004	1150	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	7/5/2004	1210	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	7/13/2004	1135	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	7/20/2004	1120	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	7/27/2004	1330	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	8/3/2004	1125	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	8/10/2004	1020	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	8/17/2004	1310	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	8/24/2004	1030	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	9/1/2004	1355	NDEQ	--	--

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Station name	Station number	Date	Sample start time	Source	Hydrologic event	Temperature, air, degrees Celsius
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	9/8/2004	1515	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	9/14/2004	1055	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	9/21/2004	900	NDEQ	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	SLP2MIDDL150	9/28/2004	1025	NDEQ	--	--
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	06803182	8/29/1995	820	USGS	9	25
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	06803182	5/1/2013	1100	USGS	9	4.3
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	06803182	8/7/2013	1000	USGS	9	27.8
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	06803182	11/5/2013	1740	USGS	J	3.5

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Station name	Date	Discharge, instantaneous, cubic feet per second	Dissolved oxygen, water, unfiltered, milligrams per liter	pH, water, unfiltered, field, standard units	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius	Temperature, water, degrees Celsius
Middle Creek near Emerald, Nebraska	7/14/1951	--	--	7.9	920	--
Middle Creek at SW 63rd St at Lincoln, Nebr.	5/1/2013	2	8.7	8	808	10.8
Middle Creek at SW 63rd St at Lincoln, Nebr.	8/7/2013	2	10.8	8.2	797	23.9
Middle Creek at SW 63rd St at Lincoln, Nebr.	11/5/2013	8.9	9.4	7.7	757	7.5
Middle Creek at SW 40th street at Lincoln, Nebr.	8/28/1995	^A 3.2	6.1	8.2	913	28.5
Middle Creek at SW 40th street at Lincoln, Nebr.	4/26/1999	^A 30	10.6	9.4	617	12.6
Middle Creek at SW 40th street at Lincoln, Nebr.	5/4/1999	^A 23	8.6	8.2	639	15.9
Middle Creek at SW 40th street at Lincoln, Nebr.	5/11/1999	^A 39	8.4	8.2	504	14.4
Middle Creek at SW 40th street at Lincoln, Nebr.	5/18/1999	^A 122	7.88	8.25	448	17.5
Middle Creek at SW 40th street at Lincoln, Nebr.	5/25/1999	^A 67	8.49	8.42	511	20.17
Middle Creek at SW 40th street at Lincoln, Nebr.	6/3/1999	^A 69	7.89	8.41	476	20.2
Middle Creek at SW 40th street at Lincoln, Nebr.	6/8/1999	^A 52	5.51	8.55	488	22.2

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Station name	Date	Discharge, instantaneous, cubic feet per second	Dissolved oxygen, water, unfiltered, milligrams per liter	pH, water, unfiltered, field, standard units	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius	Temperature, water, degrees Celsius
Middle Creek at SW 40th street at Lincoln, Nebr.	6/15/1999	^A 25	7.48	8.62	495	19.5
Middle Creek at SW 40th street at Lincoln, Nebr.	6/22/1999	^A 22	8.65	8.3	665	21.62
Middle Creek at SW 40th street at Lincoln, Nebr.	6/29/1999	^A 80	7.24	8.62	411	21.34
Middle Creek at SW 40th street at Lincoln, Nebr.	7/8/1999	^A 59	6.93	8.67	416	24.53
Middle Creek at SW 40th street at Lincoln, Nebr.	7/13/1999	^A 39	--	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	7/13/1999	^A 39	6.59	8.78	441	21.29
Middle Creek at SW 40th street at Lincoln, Nebr.	7/20/1999	^A 17	7.69	8.01	566	24.1
Middle Creek at SW 40th street at Lincoln, Nebr.	7/27/1999	^A 11	7.53	7.97	606	23.5
Middle Creek at SW 40th street at Lincoln, Nebr.	8/3/1999	^A 29	9.87	7.97	3.67	22.9
Middle Creek at SW 40th street at Lincoln, Nebr.	8/10/1999	^A 7.4	6.59	8.08	666	21.8
Middle Creek at SW 40th street at Lincoln, Nebr.	8/17/1999	^A 7.5	7.24	8.48	476	21
Middle Creek at SW 40th street at Lincoln, Nebr.	8/24/1999	^A 8	10.21	7.99	540	18.9

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Station name	Date	Discharge, instantaneous, cubic feet per second	Dissolved oxygen, water, unfiltered, milligrams per liter	pH, water, unfiltered, field, standard units	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius	Temperature, water, degrees Celsius
Middle Creek at SW 40th street at Lincoln, Nebr.	8/31/1999	^A 5.5	6.5	8.56	8.05	20.2
Middle Creek at SW 40th street at Lincoln, Nebr.	9/9/1999	^A 4	6.17	8.08	772	15.39
Middle Creek at SW 40th street at Lincoln, Nebr.	9/14/1999	^A 3.5	5.6	8.2	829	14.19
Middle Creek at SW 40th street at Lincoln, Nebr.	9/21/1999	^A 3.3	4.97	8.2	838	9.82
Middle Creek at SW 40th street at Lincoln, Nebr.	9/29/1999	^A 27	4.15	8.39	483	14.1
Middle Creek at SW 40th street at Lincoln, Nebr.	4/28/2004	^A 2.6	8.78	7.82	878	17.23
Middle Creek at SW 40th street at Lincoln, Nebr.	5/4/2004	^A 2.3	6.96	7.47	917	13.34
Middle Creek at SW 40th street at Lincoln, Nebr.	5/11/2004	^A 2.6	6.52	7.85	896	20.78
Middle Creek at SW 40th street at Lincoln, Nebr.	5/18/2004	^A 4.1	7.23	7.82	892	16.19
Middle Creek at SW 40th street at Lincoln, Nebr.	5/25/2004	^A 3.8	7.12	7.68	566	16.66
Middle Creek at SW 40th street at Lincoln, Nebr.	6/2/2004	^A 2.1	7.89	7.89	850	18.59
Middle Creek at SW 40th street at Lincoln, Nebr.	6/7/2004	^A 1.8	6.99	7.78	898	23.68

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Station name	Date	Discharge, instantaneous, cubic feet per second	Dissolved oxygen, water, unfiltered, milligrams per liter	pH, water, unfiltered, field, standard units	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius	Temperature, water, degrees Celsius
Middle Creek at SW 40th street at Lincoln, Nebr.	6/15/2004	^A 2.1	6.63	7.89	851	21.68
Middle Creek at SW 40th street at Lincoln, Nebr.	6/22/2004	^A 6.9	6.27	7.49	422	19.08
Middle Creek at SW 40th street at Lincoln, Nebr.	6/29/2004	^A 1.6	10.72	8.03	839	21.94
Middle Creek at SW 40th street at Lincoln, Nebr.	7/5/2004	^A 2	7.86	7.85	859	23.18
Middle Creek at SW 40th street at Lincoln, Nebr.	7/13/2004	^A 1.9	9.21	7.85	783	27.75
Middle Creek at SW 40th street at Lincoln, Nebr.	7/20/2004	^A 1.2	7.67	7.87	914	28.12
Middle Creek at SW 40th street at Lincoln, Nebr.	7/27/2004	^A 1.1	11.73	7.97	909	24.34
Middle Creek at SW 40th street at Lincoln, Nebr.	8/3/2004	^A 1.1	7.68	8	937	26.93
Middle Creek at SW 40th street at Lincoln, Nebr.	8/10/2004	^A 0.94	10.21	7.77	946	20.37
Middle Creek at SW 40th street at Lincoln, Nebr.	8/17/2004	^A 0.97	9.8	7.99	935	23.43
Middle Creek at SW 40th street at Lincoln, Nebr.	8/24/2004	^A 1.3	5.75	7.73	941	21.85
Middle Creek at SW 40th street at Lincoln, Nebr.	9/1/2004	^A 0.92	8.3	8.01	933	24.24

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Station name	Date	Discharge, instantaneous, cubic feet per second	Dissolved oxygen, water, unfiltered, milligrams per liter	pH, water, unfiltered, field, standard units	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius	Temperature, water, degrees Celsius
Middle Creek at SW 40th street at Lincoln, Nebr.	9/8/2004	^A 0.96	10.72	8.13	990	21.57
Middle Creek at SW 40th street at Lincoln, Nebr.	9/14/2004	^A 0.83	6.47	7.6	990	21.65
Middle Creek at SW 40th street at Lincoln, Nebr.	9/21/2004	^A 1.2	5.23	7.55	726	18.73
Middle Creek at SW 40th street at Lincoln, Nebr.	9/28/2004	^A 1	8.45	7.76	938	15.83
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	8/29/1995	3.8	7.4	8	792	21
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	5/1/2013	E 8.5	9.7	7.9	8970	10.3
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	8/7/2013	E 4.3	10.6	8	10400	22.3
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	11/5/2013	E 25	9.5	7.6	2720	8.2

^A Discharge taken from the average-daily discharge record published in the USGS National Water Information System

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Station name	Date	Turbidity, water, unfiltered, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, formazin nephelometric units (FNU)	Suspended solids, water, unfiltered, milligrams per liter	Hardness, water, milligrams per liter as calcium carbonate	Calcium, water, filtered, milligrams per liter	Magnesium, water, filtered, milligrams per liter
Middle Creek near Emerald, Nebraska	7/14/1951	--	--	357	118	15
Middle Creek at SW 63rd St at Lincoln, Nebr.	5/1/2013	43	50	269	75.8	19.2
Middle Creek at SW 63rd St at Lincoln, Nebr.	8/7/2013	9.7	20	267	78.2	17.4
Middle Creek at SW 63rd St at Lincoln, Nebr.	11/5/2013	34	64	251	73.8	16.3
Middle Creek at SW 40th street at Lincoln, Nebr.	8/28/1995	--	41	249	70	18
Middle Creek at SW 40th street at Lincoln, Nebr.	4/26/1999	--	81	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	5/4/1999	--	70	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	5/11/1999	--	374	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	5/18/1999	--	636	--	--	--

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Station name	Date	Turbidity, water, unfiltered, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +- 2.5 degrees, formazin nephelometric units (FNU)	Suspended solids, water, unfiltered, milligrams per liter	Hardness, water, milligrams per liter as calcium carbonate	Calcium, water, filtered, milligrams per liter	Magnesium, water, filtered, milligrams per liter
Middle Creek at SW 40th street at Lincoln, Nebr.	5/25/1999	--	132	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	6/3/1999	--	224	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	6/8/1999	--	166	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	6/15/1999	--	94	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	6/22/1999	--	50.5	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	6/29/1999	--	350	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	7/8/1999	--	222	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	7/13/1999	--	145	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	7/13/1999	--	--	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	7/20/1999	--	63	--	--	--

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Station name	Date	Turbidity, water, unfiltered, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +- 2.5 degrees, formazin nephelometric units (FNU)	Suspended solids, water, unfiltered, milligrams per liter	Hardness, water, milligrams per liter as calcium carbonate	Calcium, water, filtered, milligrams per liter	Magnesium, water, filtered, milligrams per liter
Middle Creek at SW 40th street at Lincoln, Nebr.	7/27/1999	--	29	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	8/3/1999	--	136	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	8/10/1999	--	9	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	8/17/1999	--	21	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	8/24/1999	--	37	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	8/31/1999	--	20	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	9/9/1999	--	62	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	9/14/1999	--	21	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	9/21/1999	--	37	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	9/29/1999	--	84	--	--	--

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Station name	Date	Turbidity, water, unfiltered, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +- 2.5 degrees, formazin nephelometric units (FNU)	Suspended solids, water, unfiltered, milligrams per liter	Hardness, water, milligrams per liter as calcium carbonate	Calcium, water, filtered, milligrams per liter	Magnesium, water, filtered, milligrams per liter
Middle Creek at SW 40th street at Lincoln, Nebr.	4/28/2004	--	16.5	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	5/4/2004	--	53.5	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	5/11/2004	--	8	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	5/18/2004	--	24	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	5/25/2004	--	268	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	6/2/2004	--	34	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	6/7/2004	--	11.5	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	6/15/2004	--	15	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	6/22/2004	--	340	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	6/29/2004	--	15	--	--	--

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Station name	Date	Turbidity, water, unfiltered, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +- 2.5 degrees, formazin nephelometric units (FNU)	Suspended solids, water, unfiltered, milligrams per liter	Hardness, water, milligrams per liter as calcium carbonate	Calcium, water, filtered, milligrams per liter	Magnesium, water, filtered, milligrams per liter
Middle Creek at SW 40th street at Lincoln, Nebr.	7/5/2004	--	13	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	7/13/2004	--	11.5	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	7/20/2004	--	10.5	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	7/27/2004	--	10.5	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	8/3/2004	--	12	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	8/10/2004	--	72	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	8/17/2004	--	6.5	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	8/24/2004	--	16.5	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	9/1/2004	--	14	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	9/8/2004	--	9	--	--	--

Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Date	Turbidity, water, unfiltered, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +- 2.5 degrees, formazin nephelometric units (FNU)	Suspended solids, water, unfiltered, milligrams per liter	Hardness, water, milligrams per liter as calcium carbonate	Calcium, water, filtered, milligrams per liter	Magnesium, water, filtered, milligrams per liter
Middle Creek at SW 40th street at Lincoln, Nebr.	9/14/2004	--	9.5	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	9/21/2004	--	33	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	9/28/2004	--	58	--	--	--
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	8/29/1995	--	7	365	90	34
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	5/1/2013	17	< 15	388	97.4	35.1
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	8/7/2013	5.5	< 15	377	93.1	35.1
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	11/5/2013	83	124	174	47.1	13.7

Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Date	Sodium adsorption ratio, water, number	Sodium, water, filtered, milligrams per liter	Ammonia, water, filtered, milligrams per liter as nitrogen	Phosphorus, water, unfiltered, milligrams per liter as phosphorus
Middle Creek near Emerald, Nebraska	7/14/1951	1.5	65	--	--
Middle Creek at SW 63rd St at Lincoln, Nebr.	5/1/2013	2.15	81	0.253	0.35
Middle Creek at SW 63rd St at Lincoln, Nebr.	8/7/2013	1.95	73.2	0.089	0.49
Middle Creek at SW 63rd St at Lincoln, Nebr.	11/5/2013	1.89	68.9	< .010	0.42
Middle Creek at SW 40th street at Lincoln, Nebr.	8/28/1995	2.76	100	0.1	0.33
Middle Creek at SW 40th street at Lincoln, Nebr.	4/26/1999	--	38	0.1	0.26
Middle Creek at SW 40th street at Lincoln, Nebr.	5/4/1999	--	41.4	0.06	0.24
Middle Creek at SW 40th street at Lincoln, Nebr.	5/11/1999	--	31.8	0.13	0.56
Middle Creek at SW 40th street at Lincoln, Nebr.	5/18/1999	--	22.3	0.13	0.64
Middle Creek at SW 40th street at Lincoln, Nebr.	5/25/1999	--	32.8	0.2	0.34
Middle Creek at SW 40th street at Lincoln, Nebr.	6/3/1999	--	25.4	0.15	0.32
Middle Creek at SW 40th street at Lincoln, Nebr.	6/8/1999	--	27	0.08	0.6
Middle Creek at SW 40th street at Lincoln, Nebr.	6/15/1999	--	41	0.09	0.26
Middle Creek at SW 40th street at Lincoln, Nebr.	6/22/1999	--	43.8	0.06	0.28

Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Date	Sodium adsorption ratio, water, number	Sodium, water, filtered, milligrams per liter	Ammonia, water, filtered, milligrams per liter as nitrogen	Phosphorus, water, unfiltered, milligrams per liter as phosphorus
Middle Creek at SW 40th street at Lincoln, Nebr.	6/29/1999	--	20	0.08	0.39
Middle Creek at SW 40th street at Lincoln, Nebr.	7/8/1999	--	22.4	0.07	0.3
Middle Creek at SW 40th street at Lincoln, Nebr.	7/13/1999	--	26.1	0.05	0.3
Middle Creek at SW 40th street at Lincoln, Nebr.	7/13/1999	--	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	7/20/1999	--	45	0.08	0.22
Middle Creek at SW 40th street at Lincoln, Nebr.	7/27/1999	--	54.6	0.12	0.3
Middle Creek at SW 40th street at Lincoln, Nebr.	8/3/1999	--	22.6	0.11	0.26
Middle Creek at SW 40th street at Lincoln, Nebr.	8/10/1999	--	68.5	0.08	0.21
Middle Creek at SW 40th street at Lincoln, Nebr.	8/17/1999	--	62	< 0.05	0.31
Middle Creek at SW 40th street at Lincoln, Nebr.	8/24/1999	--	49.7	< 0.05	0.3
Middle Creek at SW 40th street at Lincoln, Nebr.	8/31/1999	--	64.8	0.09	0.26
Middle Creek at SW 40th street at Lincoln, Nebr.	9/9/1999	--	81.8	0.09	0.35
Middle Creek at SW 40th street at Lincoln, Nebr.	9/14/1999	--	91	0.07	0.29
Middle Creek at SW 40th street at Lincoln, Nebr.	9/21/1999	--	92.1	< 0.05	0.29

Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Date	Sodium adsorption ratio, water, number	Sodium, water, filtered, milligrams per liter	Ammonia, water, filtered, milligrams per liter as nitrogen	Phosphorus, water, unfiltered, milligrams per liter as phosphorus
Middle Creek at SW 40th street at Lincoln, Nebr.	9/29/1999	--	23.4	< 0.05	0.21
Middle Creek at SW 40th street at Lincoln, Nebr.	4/28/2004	--	--	0.22	0.32
Middle Creek at SW 40th street at Lincoln, Nebr.	5/4/2004	--	--	0.19	0.39
Middle Creek at SW 40th street at Lincoln, Nebr.	5/11/2004	--	--	0.33	0.46
Middle Creek at SW 40th street at Lincoln, Nebr.	5/18/2004	--	--	0.23	0.38
Middle Creek at SW 40th street at Lincoln, Nebr.	5/25/2004	--	--	0.62	0.78
Middle Creek at SW 40th street at Lincoln, Nebr.	6/2/2004	--	--	0.14	0.52
Middle Creek at SW 40th street at Lincoln, Nebr.	6/7/2004	0	--	0.1	0.51
Middle Creek at SW 40th street at Lincoln, Nebr.	6/15/2004	--	--	0.08	0.55
Middle Creek at SW 40th street at Lincoln, Nebr.	6/22/2004	--	--	0.2	0.95
Middle Creek at SW 40th street at Lincoln, Nebr.	6/29/2004	--	--	0.17	0.45
Middle Creek at SW 40th street at Lincoln, Nebr.	7/5/2004	--	--	0.06	0.57
Middle Creek at SW 40th street at Lincoln, Nebr.	7/13/2004	--	--	0.16	0.56
Middle Creek at SW 40th street at Lincoln, Nebr.	7/20/2004	--	--	0.14	0.56

Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Date	Sodium adsorption ratio, water, number	Sodium, water, filtered, milligrams per liter	Ammonia, water, filtered, milligrams per liter as nitrogen	Phosphorus, water, unfiltered, milligrams per liter as phosphorus
Middle Creek at SW 40th street at Lincoln, Nebr.	7/27/2004	--	--	0.05	0.48
Middle Creek at SW 40th street at Lincoln, Nebr.	8/3/2004	--	--	0.31	0.52
Middle Creek at SW 40th street at Lincoln, Nebr.	8/10/2004	--	--	0.12	0.54
Middle Creek at SW 40th street at Lincoln, Nebr.	8/17/2004	--	--	0.15	0.37
Middle Creek at SW 40th street at Lincoln, Nebr.	8/24/2004	--	--	0.17	0.43
Middle Creek at SW 40th street at Lincoln, Nebr.	9/1/2004	--	--	0.12	0.42
Middle Creek at SW 40th street at Lincoln, Nebr.	9/8/2004	--	--	0.09	0.37
Middle Creek at SW 40th street at Lincoln, Nebr.	9/14/2004	--	--	0.1	0.39
Middle Creek at SW 40th street at Lincoln, Nebr.	9/21/2004	--	--	0.13	0.48
Middle Creek at SW 40th street at Lincoln, Nebr.	9/28/2004	--	--	0.14	0.43
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	8/29/1995	34.2	1500	0.3	0.28
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	5/1/2013	36.5	1650	0.672	0.28

Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Date	Sodium adsorption ratio, water, number	Sodium, water, filtered, milligrams per liter	Ammonia, water, filtered, milligrams per liter as nitrogen	Phosphorus, water, unfiltered, milligrams per liter as phosphorus
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	8/7/2013	42.2	1880	0.486	0.34
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	11/5/2013	15.14	459	0.272	0.77

Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Date	Escherichia coli, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Total coliforms, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Copper, water, filtered, micrograms per liter	Selenium, water, filtered, micrograms per liter	Organic carbon, water, unfiltered, milligrams per liter	Atrazine, total, micrograms per liter
Middle Creek near Emerald, Nebraska	7/14/1951	--	--	--	--	--	--
Middle Creek at SW 63rd St at Lincoln, Nebr.	5/1/2013	170	6500	< .80	2.9	11	--
Middle Creek at SW 63rd St at Lincoln, Nebr.	8/7/2013	310	16000	1.3	2.6	5.3	--
Middle Creek at SW 63rd St at Lincoln, Nebr.	11/5/2013	780	> 24,000	0.83	2.5	6.6	--
Middle Creek at SW 40th street at Lincoln, Nebr.	8/28/1995	--	--	--	--	6.1	--
Middle Creek at SW 40th street at Lincoln, Nebr.	4/26/1999	--	--	--	--	--	1.29
Middle Creek at SW 40th street at Lincoln, Nebr.	5/4/1999	--	--	--	--	--	1.16
Middle Creek at SW 40th street at Lincoln, Nebr.	5/11/1999	--	--	--	--	--	24.8

Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Date	Escherichia coli, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Total coliforms, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Copper, water, filtered, micrograms per liter	Selenium, water, filtered, micrograms per liter	Organic carbon, water, unfiltered, milligrams per liter	Atrazine, total, micrograms per liter
Middle Creek at SW 40th street at Lincoln, Nebr.	5/18/1999	--	--	--	--	--	4.24
Middle Creek at SW 40th street at Lincoln, Nebr.	5/25/1999	--	--	--	--	--	2.74
Middle Creek at SW 40th street at Lincoln, Nebr.	6/3/1999	--	--	--	--	--	4.92
Middle Creek at SW 40th street at Lincoln, Nebr.	6/8/1999	--	--	--	--	--	3.86
Middle Creek at SW 40th street at Lincoln, Nebr.	6/15/1999	--	--	--	--	--	3.62
Middle Creek at SW 40th street at Lincoln, Nebr.	6/22/1999	--	--	--	--	--	2.23
Middle Creek at SW 40th street at Lincoln, Nebr.	6/29/1999	--	--	--	--	--	4.32
Middle Creek at SW 40th street at Lincoln, Nebr.	7/8/1999	--	--	--	--	--	3.38
Middle Creek at SW 40th street at Lincoln, Nebr.	7/13/1999	--	--	--	--	--	--
Middle Creek at SW 40th street at Lincoln, Nebr.	7/13/1999	--	--	--	--	--	2.97

Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Date	Escherichia coli, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Total coliforms, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Copper, water, filtered, micrograms per liter	Selenium, water, filtered, micrograms per liter	Organic carbon, water, unfiltered, milligrams per liter	Atrazine, total, micrograms per liter
Middle Creek at SW 40th street at Lincoln, Nebr.	7/20/1999	--	--	--	--	--	2.73
Middle Creek at SW 40th street at Lincoln, Nebr.	7/27/1999	--	--	--	--	--	0.5
Middle Creek at SW 40th street at Lincoln, Nebr.	8/3/1999	--	--	--	--	--	1.21
Middle Creek at SW 40th street at Lincoln, Nebr.	8/10/1999	--	--	--	--	--	0.33
Middle Creek at SW 40th street at Lincoln, Nebr.	8/17/1999	--	--	--	--	--	0.66
Middle Creek at SW 40th street at Lincoln, Nebr.	8/24/1999	--	--	--	--	--	0.44
Middle Creek at SW 40th street at Lincoln, Nebr.	8/31/1999	--	--	--	--	--	0.46
Middle Creek at SW 40th street at Lincoln, Nebr.	9/9/1999	--	--	--	--	--	0.27
Middle Creek at SW 40th street at Lincoln, Nebr.	9/14/1999	--	--	--	--	--	0.19
Middle Creek at SW 40th street at Lincoln, Nebr.	9/21/1999	--	--	--	--	--	0.1

Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Date	Escherichia coli, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Total coliforms, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Copper, water, filtered, micrograms per liter	Selenium, water, filtered, micrograms per liter	Organic carbon, water, unfiltered, milligrams per liter	Atrazine, total, micrograms per liter
Middle Creek at SW 40th street at Lincoln, Nebr.	9/29/1999	--	--	--	--	--	1.03
Middle Creek at SW 40th street at Lincoln, Nebr.	4/28/2004	43	--	--	--	--	0.67
Middle Creek at SW 40th street at Lincoln, Nebr.	5/4/2004	206	--	--	--	--	0.35
Middle Creek at SW 40th street at Lincoln, Nebr.	5/11/2004	99	--	--	--	--	0.35
Middle Creek at SW 40th street at Lincoln, Nebr.	5/18/2004	1046	--	--	--	--	0.46
Middle Creek at SW 40th street at Lincoln, Nebr.	5/25/2004	3873	--	--	--	--	24.53
Middle Creek at SW 40th street at Lincoln, Nebr.	6/2/2004	198.9	--	--	--	--	3.18
Middle Creek at SW 40th street at Lincoln, Nebr.	6/7/2004	121.1	--	--	--	--	1.45
Middle Creek at SW 40th street at Lincoln, Nebr.	6/15/2004	461	--	--	--	--	0.85
Middle Creek at SW 40th street at Lincoln, Nebr.	6/22/2004	19863	--	--	--	--	14.85

Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Date	Escherichia coli, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Total coliforms, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Copper, water, filtered, micrograms per liter	Selenium, water, filtered, micrograms per liter	Organic carbon, water, unfiltered, milligrams per liter	Atrazine, total, micrograms per liter
Middle Creek at SW 40th street at Lincoln, Nebr.	6/29/2004	219	--	--	--	--	1.98
Middle Creek at SW 40th street at Lincoln, Nebr.	7/5/2004	1553	--	--	--	--	0.58
Middle Creek at SW 40th street at Lincoln, Nebr.	7/13/2004	2419	--	--	--	--	0.46
Middle Creek at SW 40th street at Lincoln, Nebr.	7/20/2004	67	--	--	--	--	0.21
Middle Creek at SW 40th street at Lincoln, Nebr.	7/27/2004	26	--	--	--	--	0.29
Middle Creek at SW 40th street at Lincoln, Nebr.	8/3/2004	65	--	--	--	--	0.19
Middle Creek at SW 40th street at Lincoln, Nebr.	8/10/2004	143	--	--	--	--	0.15
Middle Creek at SW 40th street at Lincoln, Nebr.	8/17/2004	66	--	--	--	--	0.08
Middle Creek at SW 40th street at Lincoln, Nebr.	8/24/2004	462	--	--	--	--	0.1
Middle Creek at SW 40th street at Lincoln, Nebr.	9/1/2004	45	--	--	--	--	0.1

Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Date	Escherichia coli, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Total coliforms, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Copper, water, filtered, micrograms per liter	Selenium, water, filtered, micrograms per liter	Organic carbon, water, unfiltered, milligrams per liter	Atrazine, total, micrograms per liter
Middle Creek at SW 40th street at Lincoln, Nebr.	9/8/2004	56	--	--	--	--	0.13
Middle Creek at SW 40th street at Lincoln, Nebr.	9/14/2004	142	--	--	--	--	0.08
Middle Creek at SW 40th street at Lincoln, Nebr.	9/21/2004	1414	--	--	--	--	0.15
Middle Creek at SW 40th street at Lincoln, Nebr.	9/28/2004	248	--	--	--	--	<0.05
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	8/29/1995	--	--	--	--	5.8	--
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	5/1/2013	80	5500	< 5.6	1.8	9.1	--
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	8/7/2013	150	> 24,000	< 5.6	2.1	4.6	--

Appendix D. Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Date	Escherichia coli, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Total coliforms, defined substrate method (DSTM), water, most probable number per 100 milliliters	Copper, water, filtered, micrograms per liter	Selenium, water, filtered, micrograms per liter	Organic carbon, water, unfiltered, milligrams per liter	Atrazine, total, micrograms per liter
MIDDLE CR 0.5 MI UPSTR FROM MOUTH AT LINCOLN, NE	11/5/2013	1900	> 24,000	2.05	1.1	10.1	--