

Appendix 1. Sample collection dates, streamflow conditions, and sample collection methods for discrete water-quality samples collected at the Indian Creek study sites during June 2004 through May 2013.

[hh, hours; mm, minutes; --, no data; EWI, equal width increment; NL, not listed; MV, multiple vertical; O, other; PS, point sample; SLPP, suction-lift peristaltic pump; GS, grab sample; SP, suction pump; SV, single vertical; EDI, equal discharge increment]

Sampling date	Time, in hhmm	Streamflow, in cubic feet per second	Sample collection method	Time, in hhmm	Streamflow, in cubic feet per second	Sample collection method	Time, in hhmm	Streamflow, in cubic feet per second	Sample collection method	Time, in hhmm	Streamflow, in cubic feet per second	Sample collection method	Time, in hhmm	Streamflow, in cubic feet per second	Sample collection method	Time, in hhmm	Streamflow, in cubic feet per second	Sample collection method
	Indian Creek at 119th Street, Overland Park, KS (119th, site 385446094430700)			Indian Creek at College Boulevard, Overland Park, KS (College, site 385520094420000)			Indian Creek at Overland Park, KS (Marty, site 06893300)			Indian Creek at Indian Creek Parkway, Overland Park, KS (Mission Farms, site 385608094380300)			Tomahawk Creek near Overland Park, KS (Tomahawk, site 06893350)			Indian Creek at State Line Road, Leawood, KS (State Line, site 06893390)		
June 10, 2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1020	1,667	EWI
June 23, 2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1125	33	NL
July 24, 2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1400	7,130	MV
September 8, 2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1150	29	EWI
September 10, 2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0905	33	NL
September 22, 2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1600	26	O
October 1, 2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1055	41	NL
November 5, 2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1130	71	NL
December 6, 2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1030	139	EWI
December 21, 2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0915	29	EWI
January 3, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1030	2,097	MV
January 31, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1100	39	EWI
February 10, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1115	71	PS
March 24, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1235	84	EWI
May 13, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0745	1,267	EWI
May 13, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0750	1,267	SLPP
June 1, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1035	1,048	EWI
June 1, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1040	986	SLPP
June 4, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0820	9,662	SLPP
July 13, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1020	13	EWI
August 25, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0935	1,115	EWI
August 25, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0950	1,095	PS
September 23, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1015	1,650	EWI
September 23, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1020	1,650	PS
December 10, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1615	20	GS
December 12, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1715	51	GS
December 22, 2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1455	23	GS
January 11, 2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0925	37	EWI
January 28, 2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0905	241	PS
March 4, 2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1040	215	GS
June 16, 2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1100	19	EWI
August 26, 2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0130	3,820	SP
October 27, 2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0930	872	EWI
December 1, 2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1220	60	EWI
January 22, 2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1100	41	EWI
February 28, 2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2140	2,142	SP
March 12, 2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1020	36	EWI
May 2, 2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1140	259	EWI
May 7, 2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1225	2,456	EWI
April 8, 2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0940	1,790	EWI
April 18, 2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0910	277	EWI

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Sampling date	Time, in hhmm	Streamflow, in cubic feet per second	Sample collection method	Time, in hhmm	Streamflow, in cubic feet per second	Sample collection method	Time, in hhmm	Streamflow, in cubic feet per second	Sample collection method	Time, in hhmm	Streamflow, in cubic feet per second	Sample collection method	Time, in hhmm	Streamflow, in cubic feet per second	Sample collection method	Time, in hhmm	Streamflow, in cubic feet per second	Sample collection method
	Indian Creek at 119th Street, Overland Park, KS (119th, site 385446094430700)			Indian Creek at College Boulevard, Overland Park, KS (College, site 385520094420000)			Indian Creek at Overland Park, KS (Marty, site 06893300)			Indian Creek at Indian Creek Parkway, Overland Park, KS (Mission Farms, site 385608094380300)			Tomahawk Creek near Overland Park, KS (Tomahawk, site 06893350)			Indian Creek at State Line Road, Leawood, KS (State Line, site 06893390)		
May 2, 2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0910	15	EWI
July 29, 2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0925	24	GS
July 30, 2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0930	9,222	EWI
August 6, 2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0945	41	GS
August 13, 2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0925	28	GS
May 8, 2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1050	468	EWI
June 9, 2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1420	2,179	EWI
August 17, 2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1220	2,326	EWI
April 6, 2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0945	65	EWI
May 13, 2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0940	1,596	EWI
April 15, 2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1035	942	EWI
April 25, 2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1255	1,192	EWI
May 20, 2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1400	1,434	EWI
June 15, 2011	1220	--	EWI	1140	17	EWI	1320	18	EWI	0940	14	EWI	--	--	--	1020	23	EWI
July 7, 2011	--	--	--	--	--	--	--	--	--	1235	248	EWI	1135	--	EWI	1215	299	EWI
August 22, 2011	1600	149	EWI	1425	2,231	EWI	1650	354	EWI	--	--	--	--	--	--	--	--	--
November 3, 2011	1010	29	EWI	1115	53	EWI	1230	65	EWI	1100	103	EWI	0950	59	EWI	1215	151	EWI
November 8, 2011	0900	59	EWI	1010	91	EWI	1105	113	EWI	1050	173	EWI	0920	140	EWI	1140	269	EWI
January 18, 2012	0930	1.1	EWI	1030	16	EWI	1200	14	EWI	1150	9.5	EWI	0945	2.4	EWI	1040	22	EWI
February 3, 2012	1120	307	EWI	1240	280	EWI	1045	954	EWI	--	--	--	--	--	--	--	--	--
March 5, 2012	--	--	--	1200	20	EWI	--	--	--	--	--	--	--	--	--	--	--	--
March 20, 2012	0950	249	EWI	1215	318	EWI	1045	419	EWI	1315	548	EWI	1125	343	EWI	--	--	--
April 18, 2012	--	--	--	--	--	--	--	--	--	1010	14	EWI	--	--	--	--	--	--
May 4, 2012	1315	12	GS	1215	18	GS	1130	23	GS	1045	21	GS	1015	22	GS	0930	53	GS
May 23, 2012	--	--	--	1000	16	SV	--	--	--	1210	11	SV	1330	1.4	SV	1245	18	SV
May 25, 2012	0930	1,510	EWI	1100	1,400	EWI	1300	509	EWI	--	--	--	0940	1,514	EWI	1200	2,186	EWI
May 30, 2012	--	--	--	1145	25	SV	1115	23	SV	1045	19	SV	1015	14	SV	0945	55	SV
June 6, 2012	1230	0.8	GS	1200	15	GS	1100	11	GS	1030	14	GS	1000	2.2	GS	0930	25	GS
June 13, 2012	1200	0.9	SV	1130	15	SV	1100	9.9	SV	1030	13	SV	1000	4.0	SV	0915	28	SV
June 20, 2012	0845	0.6	SV	0915	12	SV	1015	5.2	SV	1030	11	SV	1100	1.3	SV	1130	19	SV
June 21, 2012	--	--	--	--	--	--	--	--	--	1010	200	EWI	--	--	--	0945	423	EWI
June 27, 2012	0915	0.6	SV	0945	13	SV	1015	7.9	SV	1045	12	SV	1115	1.4	SV	1145	20	SV
July 3, 2012	1215	0.5	SV	1130	12	SV	1100	4.8	SV	1030	11	SV	1000	1.8	SV	0930	23	SV
July 5, 2012	0900	0.4	EWI	0930	10	EWI	1120	4.4	EWI	0940	10	EWI	1000	0.6	EWI	1115	19	EWI
July 11, 2012	0915	0.4	SV	0945	12	SV	1015	5.2	SV	1100	11	SV	1130	0.8	SV	1230	20	SV
July 18, 2012	1115	0.5	SV	1045	13	SV	1015	6.5	SV	0930	8.3	SV	0915	1.1	SV	0845	19	SV
July 25, 2012	0830	0.4	SV	0900	9.7	SV	0930	6.5	SV	1000	8.3	SV	1030	1.0	SV	1115	15	SV
August 1, 2012	1200	0.6	SV	1200	11	SV	1200	7.4	SV	0945	3.7	SV	0930	2.0	SV	1000	14	SV
August 8, 2012	0830	0.6	SV	0845	9.3	SV	0915	7.9	SV	1000	10	SV	1030	1.0	SV	1045	22	SV
August 14, 2012	1430	0.8	EDI	--	--	--	--	--	--	--	--	--	1325	2.9	EDI	--	--	--
August 15, 2012	1115	1.0	SV	1045	15	SV	1015	9.4	SV	0930	16	SV	0900	4.0	--	0815	29	SV
August 20, 2012	--	--	--	--	--	--	--	--	--	1100	11	EWI	0905	1.0	EWI	1000	19	EWI
August 21, 2012	1145	0.8	SV	0900	11	EWI	1010	2.6	EWI	--	--	--	--	--	--	0915	20	--
August 29, 2012	0830	0.8	SV	0900	11	SV	0930	6.9	SV	1015	14	SV	1045	2.4	SV	1115	19	SV
September 5, 2012	1145	1.3	SV	1100	12	SV	1030	23	SV	0945	22	SV	0915	13.0	SV	0830	41	SV

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September 12, 2012	0815	0.6	SV	0845	14	SV	0900	8.5	SV	0930	12	SV	1000	3.5	SV	1015	23	SV
September 19, 2012	0915	0.6	SV	0900	17	SV	0830	10	SV	0815	12	SV	0800	5.3	SV	0730	28	SV
September 25, 2012	1045	0.5	SV	1115	13	SV	1130	11	SV	1200	7.7	SV	1230	6.9	SV	1245	24	SV
October 13, 2012	1200	4.6	SV	--	--	--	--	--	--	--	--	--	1210	36	EWI	--	--	--
November 11, 2012	--	--	--	--	--	--	0830	742	EWI	1000	1,061	EWI	--	--	--	0830	1,353	EWI
January 27, 2013	1150	4.6	EWI	1050	14	EWI	0930	20	EWI	0915	17	EWI	1010	7.4	EWI	1100	34	EWI
January 29, 2013	1350	472	EWI	1210	846	EWI	1040	505	EWI	1405	1,266	EWI	1040	565	EWI	1250	1,778	EWI
February 7, 2013	--	--	--	--	--	--	--	--	--	--	--	--	0855	355	EWI	--	--	--
February 7, 2013	1125	195	EWI	1040	317	EWI	0900	587	EWI	1125	671	EWI	0910	361	EWI	1010	1,137	EWI
March 1, 2013	1430	5.7	EWI	1230	25	EWI	1210	33	EWI	1010	26	EWI	1330	14	EWI	1150	58	EWI
April 2, 2013	1130	4.6	SV	0930	25	EWI	1300	36	EWI	1100	30	EWI	0830	12	EWI	0950	60	EWI
April 23, 2013	0930	133	EWI	1130	141	EWI	1300	194	EWI	1215	318	EWI	0930	149	EWI	1115	533	EWI
May 30, 2013	1400	1,445	EWI	1240	1,908	EWI	1055	699	EWI	1340	3,038	EWI	0930	191	EWI	1130	1,887	EWI