

Water-Data Report 2013

**385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS**

Lower Missouri-Blackwater Basin  
Lower Missouri-Crooked Subbasin

LOCATION.--Lat 38°56'08", long 94°38'03" referenced to North American Datum of 1983, in NW ¼ SE ¼ NE ¼ sec.9, T.13 S., R.25 E., Johnson County, KS, Hydrologic Unit 10300101, on southeast end of bridge, 0.2 mi north on Roe Avenue, and 0.3 mi east on Indian Creek Parkway in Overland Park.

DRAINAGE AREA.--36.60 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--June 2011 to July 2013 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 830.00 ft above NAVD of 1988 (from map).

REMARKS.--Records good except those for estimated daily discharges, which are fair. Satellite telemeter at station.

## 385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**  
**DAILY MEAN VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	11	8.2	14	22	24	32	34	37	135	17	---	---
2	9.5	10	14	16	22	32	31	192	71	17	---	---
3	9.4	9.5	14	15	20	47	29	189	53	103	---	---
4	9.1	9.0	13	14	18	104	27	186	69	52	---	---
5	8.9	11	14	14	18	109	22	74	195	17	---	---
6	8.2	12	13	14	19	64	22	53	62	20	---	---
7	8.7	11	13	15	273	79	57	43	44	20	---	---
8	9.0	12	14	19	42	131	181	40	39	16	---	---
9	8.5	13	12	21	29	304	44	64	176	16	---	---
10	7.7	12	14	49	34	246	423	39	39	15	---	---
11	7.9	419	14	49	24	67	100	33	34	---	---	---
12	7.5	38	14	e18	21	45	53	30	26	---	---	---
13	161	22	13	e14	20	35	41	23	24	---	---	---
14	44	24	15	e16	19	32	41	24	22	---	---	---
15	14	18	71	12	18	30	73	21	554	---	---	---
16	11	16	19	13	18	27	33	22	106	---	---	---
17	15	15	15	14	17	29	134	26	71	---	---	---
18	12	15	14	14	16	33	300	24	43	---	---	---
19	11	15	15	13	16	24	59	190	30	---	---	---
20	12	15	78	11	15	27	50	72	31	---	---	---
21	12	15	25	e13	16	23	42	24	27	---	---	---
22	12	20	21	e15	17	24	33	23	24	---	---	---
23	12	12	18	e13	20	32	167	20	23	---	---	---
24	12	13	17	13	31	65	56	19	22	---	---	---
25	12	14	e13	13	43	48	38	15	26	---	---	---
26	15	14	e13	13	64	51	84	18	22	---	---	---
27	9.6	14	13	20	72	92	337	948	20	---	---	---
28	9.2	11	13	17	45	105	69	77	34	---	---	---
29	8.7	15	13	394	---	64	52	48	19	---	---	---
30	8.3	15	13	121	---	47	42	841	17	---	---	---
31	7.5	---	20	35	---	41	---	1,810	---	---	---	---
<b>Mean</b>	16.2	28.3	18.8	33.5	35.4	67.4	89.1	169	68.6	---	---	---
<b>Max</b>	161	419	78	394	273	304	423	1,810	554	---	---	---
<b>Min</b>	7.5	8.2	12	11	15	23	22	15	17	---	---	---
<b>Ac-ft</b>	999	1,680	1,150	2,060	1,970	4,140	5,300	10,360	4,080	---	---	---

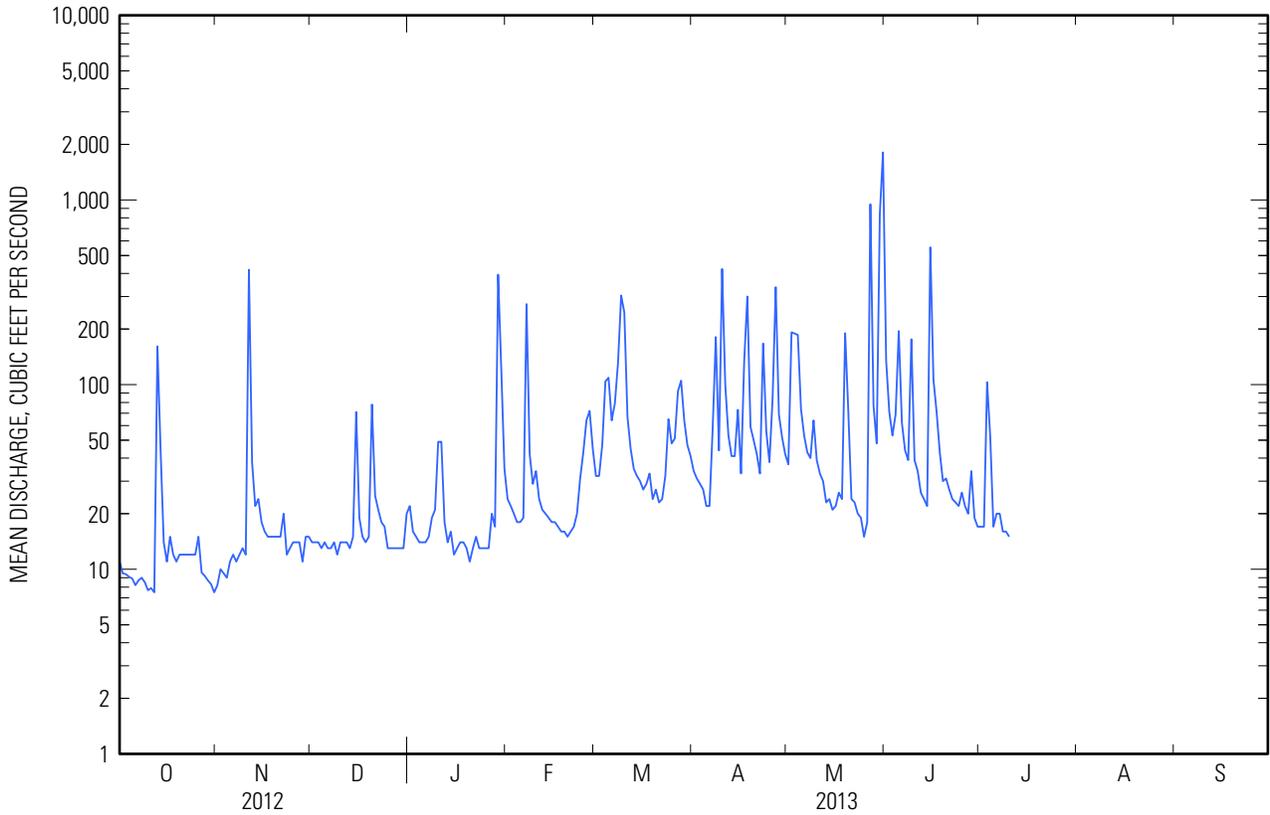
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2011 - 2013, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	14.3	48.7	37.1	24.1	37.9	75.0	57.1	136	48.3	22.9	54.2	52.2
<b>Max</b>	16.2	69.1	55.4	33.5	40.3	82.7	89.1	169	68.6	31.7	79.3	81.5
<b>(WY)</b>	(2013)	(2012)	(2012)	(2013)	(2012)	(2012)	(2013)	(2013)	(2013)	(2011)	(2011)	(2012)
<b>Min</b>	12.3	28.3	18.8	14.7	35.4	67.4	25.1	104	28.0	14.0	29.2	23.0
<b>(WY)</b>	(2012)	(2013)	(2013)	(2012)	(2013)	(2013)	(2012)	(2012)	(2012)	(2012)	(2012)	(2011)

385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Years 2011 - 2013	
Annual mean	40.2		46.3	
Highest annual mean			46.3	2012
Lowest annual mean			46.3	2012
Highest daily mean	1,710	Sep 1	1,810	May 31, 2013
Lowest daily mean	6.9	Aug 1	6.9	Aug 1, 2012
Annual seven-day minimum	8.2	Oct 6	8.2	Oct 6, 2012
Maximum peak flow			5,890	May 31, 2013
Maximum peak stage			16.42	May 31, 2013
Instantaneous low flow			3.3	Aug 1, 2012
Annual runoff (ac-ft)	29,180		33,550	
10 percent exceeds	44		62	
50 percent exceeds	15		16	
90 percent exceeds	10		11	



**385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued**

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--June 2011 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 2011 to July 2013 (discontinued).

pH: June 2011 to July 2013 (discontinued).

WATER TEMPERATURE: June 2011 to July 2013 (discontinued).

DISSOLVED OXYGEN (Lumin): June 2011 to July 2013 (discontinued).

TURBIDITY (YSI 6136 sensor): June 2011 to July 2013 (discontinued).

INSTRUMENTATION.--Multiparameter water-quality monitor.

REMARKS.--Records good. Interruptions in record are due to ice conditions or malfunction of the recording instrument or sensors. Instruments used to measure turbidity conform to ISO 7027 standards and were made using Yellow Springs Instrument (YSI) 6136 sensors.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 6,740 microsiemens/cm, Feb. 27, 2013; minimum, 126 microsiemens/cm, May 31, 2013.

pH: Maximum, 9.1 standard units, Apr. 2, 2013; minimum, 7.2 standard units, June 28, 2013.

WATER TEMPERATURE: Maximum, 33.8°C, July 13, 2011; minimum, -0.3°C, Feb. 22, 2013.

DISSOLVED OXYGEN (Lumin): Maximum, 17.5 mg/L, Mar. 26, 2013; minimum, 4.0 mg/L, May 6, 2012.

TURBIDITY (YSI 6136 sensor): Maximum, 860 FNU, May 6, 2012; minimum, 0.1 FNU, Dec. 11, 2011.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 6,740 microsiemens/cm, Feb. 27; minimum, 126 microsiemens/cm, May 31.

pH: Maximum, 9.1 standard units, Apr. 2; minimum, 7.2 standard units, June 28.

WATER TEMPERATURE: Maximum, 29.0°C, July 10; minimum, -0.3°C, Feb. 22.

DISSOLVED OXYGEN (Lumin): Maximum, 17.5 mg/L, Mar. 26; minimum, 4.0 mg/L, May 27.

TURBIDITY (YSI 6136 sensor): Maximum, 810 FNU, June 15; minimum, 0.2 FNU, Oct. 7, 11.

## 385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	1,090	1,060	1,080	1,150	1,130	1,140	1,180	1,150	1,160	6,380	3,640	4,290
2	1,100	1,070	1,080	1,180	1,150	1,160	1,190	1,180	1,180	5,460	3,970	4,730
3	1,120	1,080	1,100	1,190	1,180	1,180	1,200	1,190	1,190	3,970	2,710	3,030
4	1,140	1,120	1,130	1,190	1,180	1,190	1,190	1,170	1,180	2,760	2,300	2,460
5	1,160	1,140	1,140	1,190	1,190	1,190	1,180	1,140	1,150	2,510	2,380	2,430
6	1,180	1,160	1,160	1,200	1,170	1,180	1,180	1,160	1,170	2,540	2,320	2,400
7	1,180	1,170	1,170	1,170	1,140	1,150	1,180	1,170	1,170	2,460	2,180	2,280
8	1,180	1,160	1,170	1,160	1,150	1,160	1,170	1,170	1,170	2,480	1,980	2,110
9	1,160	1,130	1,130	1,170	1,160	1,170	1,190	1,160	1,170	2,850	1,570	2,160
10	1,130	1,100	1,110	1,180	1,170	1,170	1,190	1,180	1,180	3,300	1,600	1,890
11	1,120	1,100	1,110	1,180	205	546	1,180	1,150	1,160	3,290	2,010	2,810
12	1,150	1,120	1,130	645	322	500	1,150	1,120	1,130	2,980	1,630	2,040
13	1,150	369	732	833	645	737	1,150	1,130	1,140	1,630	1,480	1,520
14	485	389	426	940	815	864	1,170	1,070	1,160	1,490	1,390	1,450
15	817	485	624	1,030	940	981	1,130	593	753	1,420	1,380	1,400
16	---	817	---	1,070	1,030	1,060	829	747	777	1,410	1,370	1,390
17	1,010	862	---	1,080	1,060	1,080	929	829	896	1,430	1,400	1,420
18	1,010	844	945	1,100	1,070	1,090	1,060	929	1,010	1,420	1,380	1,390
19	1,040	1,010	1,020	1,100	1,090	1,100	1,050	1,020	1,040	1,430	1,410	1,420
20	1,110	1,040	1,080	1,110	1,090	1,100	4,130	617	1,710	1,420	1,380	1,400
21	1,110	1,100	1,100	1,090	1,070	1,080	3,260	2,450	2,770	1,410	1,370	1,390
22	1,130	1,110	1,120	1,090	1,070	1,080	3,650	2,370	3,030	1,400	1,340	1,360
23	1,130	1,110	1,120	---	---	---	2,940	2,470	2,760	1,360	1,310	1,330
24	1,120	1,100	1,110	---	---	---	2,910	2,460	2,690	1,340	1,320	1,330
25	1,130	1,120	1,120	---	---	---	2,580	2,130	2,200	1,390	1,340	1,360
26	1,140	1,010	1,110	1,120	---	---	2,150	1,820	1,910	1,360	1,350	1,360
27	1,150	1,010	1,110	1,120	1,100	1,110	1,930	1,690	1,800	2,790	1,350	1,910
28	1,140	1,110	1,120	1,120	1,100	1,110	1,700	1,550	1,600	1,840	1,640	1,730
29	1,180	1,140	1,160	1,140	1,110	1,130	1,650	1,590	1,610	1,750	464	1,040
30	1,180	1,150	1,160	1,150	1,140	1,140	1,650	1,550	1,580	2,320	585	1,520
31	1,160	1,130	1,140	---	---	---	6,480	1,480	2,340	2,110	1,910	2,020
Month	---	369	---	---	---	---	6,480	593	1,510	6,380	464	1,950

## 385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

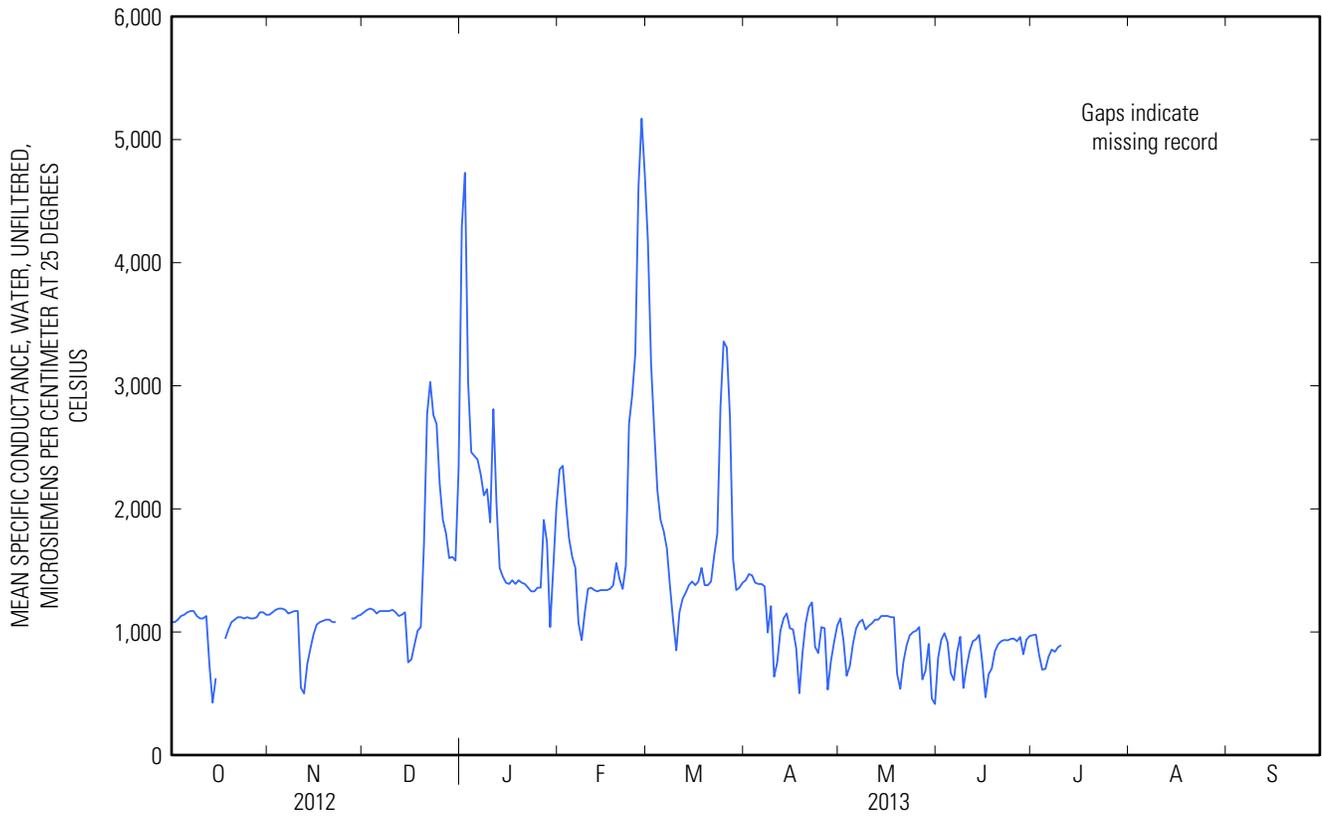
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	2,470	2,110	2,320	5,040	3,580	4,170	1,490	1,310	1,420	1,120	1,090	1,110
2	2,460	2,230	2,350	3,620	2,830	3,180	1,500	1,440	1,470	1,190	478	928
3	2,230	1,790	2,040	2,900	2,320	2,640	1,490	1,390	1,460	824	481	644
4	1,800	1,620	1,760	2,400	1,730	2,150	1,430	1,340	1,400	820	652	723
5	1,640	1,560	1,610	2,130	1,610	1,910	1,410	1,340	1,390	993	796	903
6	1,560	1,470	1,520	1,940	1,570	1,820	1,420	1,340	1,390	1,050	993	1,030
7	2,080	660	1,070	1,820	1,550	1,680	1,780	956	1,370	1,090	1,050	1,080
8	1,080	771	934	1,640	1,070	1,370	1,510	547	996	1,120	1,070	1,100
9	1,230	1,080	1,160	1,710	740	1,090	1,270	763	1,210	1,130	984	1,020
10	1,410	1,230	1,350	1,080	619	851	1,040	499	637	1,070	998	1,050
11	1,410	1,330	1,360	1,230	1,080	1,160	929	557	755	1,080	1,050	1,070
12	1,390	1,310	1,340	1,300	1,230	1,270	1,060	929	1,010	1,120	1,080	1,100
13	1,340	1,310	1,330	1,340	1,290	1,320	1,130	1,060	1,110	1,120	1,080	1,100
14	1,350	1,320	1,340	1,410	1,340	1,380	1,190	1,120	1,150	1,140	1,100	1,130
15	1,350	1,300	1,340	1,430	1,380	1,410	1,160	919	1,030	1,140	1,110	1,130
16	1,380	1,290	1,340	1,390	1,350	1,380	1,040	950	1,020	1,140	1,110	1,130
17	1,370	1,330	1,350	1,650	1,350	1,410	1,060	544	868	1,130	1,110	1,120
18	1,510	1,330	1,380	1,620	1,380	1,520	642	408	502	1,140	1,090	1,120
19	1,770	1,470	1,560	1,400	1,340	1,380	970	642	829	1,140	416	658
20	1,470	1,400	1,430	1,390	1,350	1,380	1,140	970	1,070	587	466	538
21	1,400	1,290	1,350	1,600	1,380	1,410	1,220	1,140	1,200	856	587	759
22	2,400	1,290	1,540	1,710	1,530	1,620	1,260	1,210	1,240	945	850	891
23	3,040	2,400	2,690	2,780	1,590	1,800	1,250	631	878	988	945	972
24	3,550	2,480	2,920	3,140	2,490	2,830	948	659	829	1,010	983	998
25	4,140	2,860	3,260	4,070	2,960	3,360	1,090	948	1,040	1,030	975	1,010
26	5,310	4,140	4,610	4,040	2,850	3,310	1,180	825	1,030	1,060	994	1,040
27	6,740	4,080	5,170	3,460	2,060	2,750	875	386	532	1,050	181	615
28	5,260	4,330	4,720	2,150	1,390	1,590	850	621	761	839	469	686
29	---	---	---	1,440	1,250	1,340	1,020	772	916	933	839	903
30	---	---	---	1,410	1,290	1,360	1,090	938	1,050	957	180	459
31	---	---	---	1,500	1,220	1,400	---	---	---	677	126	415
<b>Month</b>	6,740	660	2,010	5,040	619	1,850	1,780	386	1,050	1,190	126	917

## 385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	890	677	791	989	962	974	---	---	---	---	---	---
2	972	889	937	992	962	978	---	---	---	---	---	---
3	1,000	961	990	983	169	815	---	---	---	---	---	---
4	1,040	657	916	752	501	694	---	---	---	---	---	---
5	961	320	666	752	658	700	---	---	---	---	---	---
6	745	396	609	864	687	799	---	---	---	---	---	---
7	891	745	835	887	790	857	---	---	---	---	---	---
8	1,000	891	961	870	790	839	---	---	---	---	---	---
9	998	412	545	920	831	876	---	---	---	---	---	---
10	783	560	714	909	881	893	---	---	---	---	---	---
11	911	783	845	---	887	---	---	---	---	---	---	---
12	948	902	925	---	---	---	---	---	---	---	---	---
13	957	922	940	---	---	---	---	---	---	---	---	---
14	984	956	976	---	---	---	---	---	---	---	---	---
15	1,010	180	755	---	---	---	---	---	---	---	---	---
16	637	281	469	---	---	---	---	---	---	---	---	---
17	766	454	656	---	---	---	---	---	---	---	---	---
18	791	542	704	---	---	---	---	---	---	---	---	---
19	889	781	843	---	---	---	---	---	---	---	---	---
20	923	882	899	---	---	---	---	---	---	---	---	---
21	931	920	925	---	---	---	---	---	---	---	---	---
22	941	929	935	---	---	---	---	---	---	---	---	---
23	938	924	932	---	---	---	---	---	---	---	---	---
24	956	928	943	---	---	---	---	---	---	---	---	---
25	989	897	946	---	---	---	---	---	---	---	---	---
26	946	897	925	---	---	---	---	---	---	---	---	---
27	969	894	959	---	---	---	---	---	---	---	---	---
28	934	709	819	---	---	---	---	---	---	---	---	---
29	944	926	938	---	---	---	---	---	---	---	---	---
30	982	944	967	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
<b>Month</b>	1,040	180	842	---	---	---	---	---	---	---	---	---

385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued



## 385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	8.0	7.8	7.9	8.1	7.9	8.0	8.3	8.0	8.1	7.6	7.5	7.6
2	8.1	7.8	8.0	8.1	8.0	8.0	8.2	8.0	8.1	7.6	7.5	7.5
3	8.1	7.8	8.0	8.2	8.0	8.1	8.3	8.0	8.1	7.7	7.6	7.6
4	8.1	7.8	8.0	8.2	8.0	8.1	8.3	8.0	8.1	7.9	7.6	7.7
5	8.2	7.8	8.0	8.1	7.8	8.0	8.2	8.0	8.1	8.0	7.7	7.8
6	8.2	8.0	8.1	8.1	7.8	7.9	8.3	8.0	8.1	8.0	7.7	7.9
7	8.3	8.0	8.2	8.2	7.9	8.0	8.2	8.0	8.1	8.0	7.7	7.9
8	8.3	8.0	8.2	8.2	7.9	8.0	8.2	8.0	8.1	8.1	7.8	8.0
9	8.3	8.0	8.2	8.2	8.0	8.0	8.2	8.0	8.1	8.2	7.8	8.0
10	8.3	8.0	8.1	8.3	7.9	8.0	8.1	7.9	8.0	8.1	7.7	7.8
11	8.3	8.0	8.2	8.0	7.7	7.8	8.0	7.8	8.0	7.7	7.6	7.7
12	8.3	8.0	8.2	7.8	7.7	7.8	8.0	7.8	7.9	7.7	7.6	7.6
13	8.1	7.6	7.8	8.0	7.8	7.8	8.1	7.9	8.0	7.8	7.6	7.7
14	7.8	7.6	7.7	8.1	7.9	8.0	8.1	7.9	8.0	7.8	7.6	7.7
15	8.0	7.7	7.9	8.0	7.9	8.0	8.1	7.7	7.8	7.9	7.7	7.8
16	---	8.0	---	8.0	7.9	7.9	7.8	7.7	7.8	8.0	7.8	7.8
17	---	8.0	---	8.0	7.9	8.0	7.9	7.8	7.8	8.0	7.9	7.9
18	8.0	7.9	7.9	8.1	8.0	8.0	8.1	7.9	8.0	8.2	8.0	8.0
19	8.0	7.9	8.0	8.1	8.0	8.1	8.1	7.9	8.0	8.3	8.0	8.2
20	8.0	7.9	8.0	8.1	8.0	8.1	8.0	7.6	7.7	8.3	7.9	8.2
21	8.0	7.9	8.0	8.1	8.0	8.1	7.7	7.6	7.6	8.3	7.9	8.2
22	8.0	7.9	8.0	8.2	---	---	7.8	7.4	7.6	8.2	7.8	8.1
23	8.0	7.9	7.9	---	---	---	7.8	7.6	7.7	8.3	7.9	8.1
24	8.0	7.9	7.9	---	---	---	7.8	7.7	7.8	8.2	7.9	8.1
25	8.0	7.9	7.9	---	---	---	7.8	7.5	7.7	8.2	7.9	8.1
26	8.0	7.8	7.9	---	7.9	---	7.7	7.5	7.6	8.3	8.1	8.2
27	8.0	7.8	7.9	8.1	7.9	8.0	7.7	7.5	7.6	8.4	7.8	8.0
28	8.0	7.9	8.0	8.1	7.9	8.0	7.8	7.6	7.8	8.4	7.8	8.1
29	8.1	8.0	8.0	8.2	7.9	8.0	7.8	7.6	7.6	8.5	7.7	7.8
30	8.1	8.0	8.0	8.2	8.0	8.1	7.9	7.6	7.8	7.8	7.7	7.8
31	8.1	7.9	8.0	---	---	---	8.0	7.6	7.9	7.9	7.8	7.8
<b>Max</b>	---	8.0	---	---	---	---	8.3	8.0	8.1	8.5	8.1	8.2
<b>Min</b>	---	7.6	---	---	---	---	7.7	7.4	7.6	7.6	7.5	7.5

## 385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

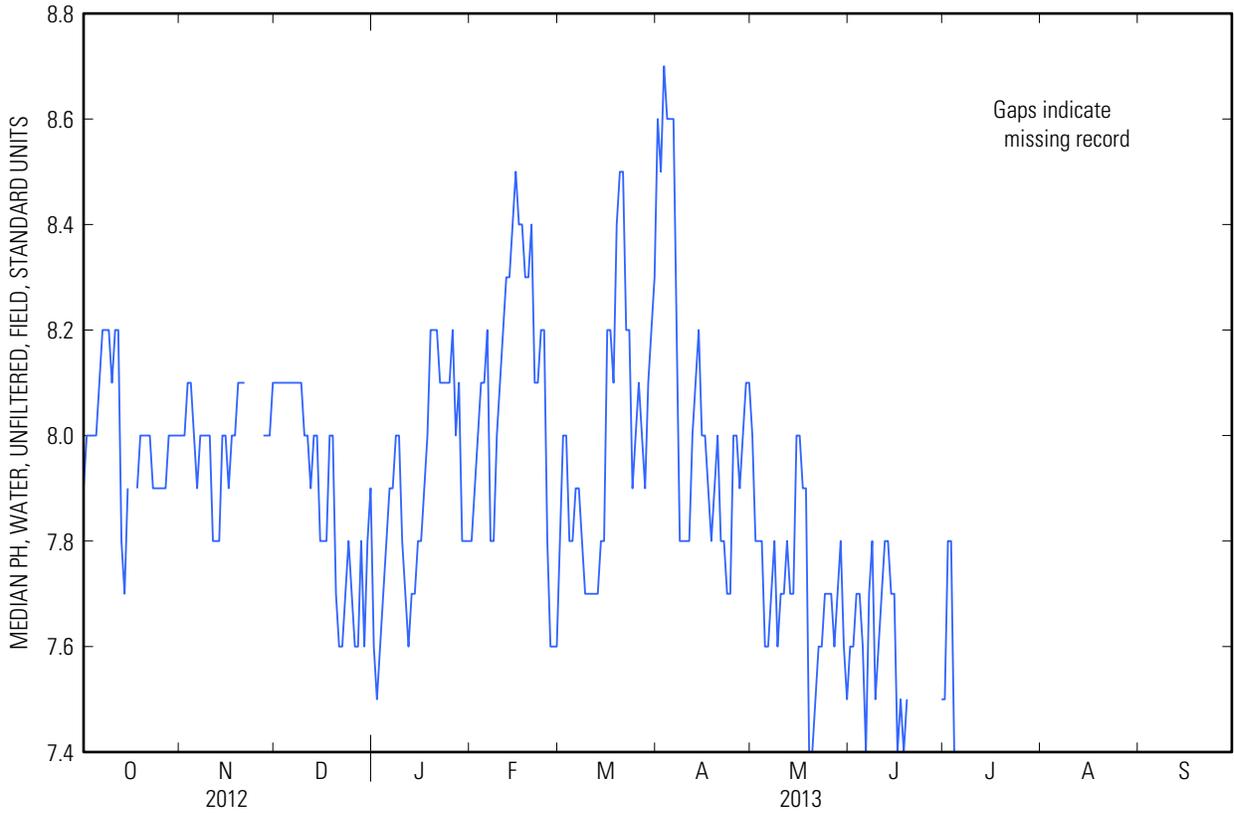
Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	7.9	7.7	7.8	8.2	7.6	7.8	9.0	8.1	8.6	8.2	8.0	8.0
2	8.0	7.8	7.9	8.5	7.7	8.0	9.1	8.1	8.5	8.0	7.8	7.8
3	8.1	7.9	8.0	8.5	7.7	8.0	9.1	8.2	8.7	7.8	7.7	7.8
4	8.2	7.9	8.1	8.3	7.7	7.8	9.0	8.1	8.6	7.8	7.7	7.8
5	8.2	8.0	8.1	8.0	7.6	7.8	9.0	8.0	8.6	7.7	7.6	7.6
6	8.3	8.1	8.2	8.3	7.7	7.9	9.0	8.2	8.6	7.8	7.6	7.6
7	8.4	7.7	7.8	8.4	7.7	7.9	9.0	7.9	8.2	7.8	7.7	7.7
8	8.0	7.7	7.8	8.2	7.7	7.8	8.1	7.8	7.8	7.8	7.7	7.8
9	8.2	7.9	8.0	7.8	7.6	7.7	8.0	7.7	7.8	7.8	7.5	7.6
10	8.3	8.0	8.1	7.7	7.6	7.7	7.9	7.7	7.8	7.8	7.6	7.7
11	8.4	8.0	8.2	7.8	7.6	7.7	8.0	7.7	7.8	8.0	7.6	7.7
12	8.5	8.1	8.3	7.8	7.6	7.7	8.3	7.9	8.0	7.9	7.7	7.8
13	8.6	8.1	8.3	7.8	7.6	7.7	8.3	8.0	8.1	7.8	7.7	7.7
14	8.7	8.3	8.4	8.0	7.6	7.8	8.4	8.0	8.2	8.2	7.7	7.7
15	8.7	8.3	8.5	8.3	7.7	7.8	8.1	7.8	8.0	8.1	7.7	8.0
16	8.7	8.2	8.4	8.6	8.0	8.2	8.2	7.9	8.0	8.2	7.8	8.0
17	8.8	8.2	8.4	8.6	8.1	8.2	8.2	7.7	7.9	8.2	7.6	7.9
18	8.8	8.2	8.3	8.8	7.9	8.1	7.8	7.7	7.8	8.1	7.7	7.9
19	8.6	8.1	8.3	8.8	8.2	8.4	8.2	7.8	7.9	8.2	7.3	7.4
20	8.7	8.2	8.4	8.9	8.0	8.5	8.2	7.9	8.0	7.5	7.3	7.4
21	8.5	7.9	8.1	8.9	8.2	8.5	8.0	7.7	7.8	7.6	7.4	7.5
22	8.4	7.9	8.1	8.5	7.9	8.2	7.8	7.7	7.8	7.7	7.5	7.6
23	8.6	8.0	8.2	8.5	8.0	8.2	7.8	7.5	7.7	7.8	7.5	7.6
24	8.6	7.9	8.2	8.3	7.7	7.9	8.2	7.5	7.7	7.9	7.6	7.7
25	8.0	7.7	7.8	8.5	7.7	8.0	8.3	7.9	8.0	7.9	7.6	7.7
26	7.8	7.5	7.6	8.8	7.8	8.1	8.1	7.9	8.0	7.8	7.6	7.7
27	7.8	7.5	7.6	8.7	7.7	8.0	7.9	7.8	7.9	7.8	7.4	7.6
28	7.9	7.5	7.6	8.6	7.7	7.9	8.2	7.9	8.0	7.8	7.5	7.7
29	---	---	---	8.9	7.8	8.1	8.1	8.0	8.1	7.9	7.8	7.8
30	---	---	---	8.6	7.9	8.2	8.2	7.9	8.1	7.9	7.4	7.6
31	---	---	---	9.0	7.9	8.3	---	---	---	7.7	7.3	7.5
<b>Max</b>	8.8	8.3	8.5	9.0	8.2	8.5	9.1	8.2	8.7	8.2	8.0	8.0
<b>Min</b>	7.8	7.5	7.6	7.7	7.6	7.7	7.8	7.5	7.7	7.5	7.3	7.4

385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	7.6	7.5	7.6	7.7	7.4	7.5	---	---	---	---	---	---
2	7.8	7.6	7.6	8.0	7.6	7.8	---	---	---	---	---	---
3	7.9	7.7	7.7	8.0	7.4	7.8	---	---	---	---	---	---
4	7.9	7.5	7.7	7.6	7.3	7.4	---	---	---	---	---	---
5	7.7	7.3	7.6	7.6	7.3	7.4	---	---	---	---	---	---
6	7.7	7.3	7.4	7.8	---	---	---	---	---	---	---	---
7	7.8	7.7	7.7	7.8	---	---	---	---	---	---	---	---
8	7.9	7.8	7.8	7.9	---	---	---	---	---	---	---	---
9	7.9	7.5	7.5	---	---	---	---	---	---	---	---	---
10	7.7	7.5	7.6	---	---	---	---	---	---	---	---	---
11	7.8	7.7	7.7	---	---	---	---	---	---	---	---	---
12	7.8	7.7	7.8	---	---	---	---	---	---	---	---	---
13	7.9	7.8	7.8	---	---	---	---	---	---	---	---	---
14	7.8	7.7	7.7	---	---	---	---	---	---	---	---	---
15	7.8	7.4	7.7	---	---	---	---	---	---	---	---	---
16	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
17	7.6	7.3	7.5	---	---	---	---	---	---	---	---	---
18	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
19	7.6	7.5	7.5	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	7.6	---	---	---	---	---	---	---	---	---	---	---
28	7.7	---	---	---	---	---	---	---	---	---	---	---
29	7.6	---	---	---	---	---	---	---	---	---	---	---
30	7.6	7.4	7.5	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	---

385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued



## 385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
<b>1</b>	20.4	18.5	19.3	13.6	10.6	11.8	12.7	10.2	11.8	4.9	3.4	4.2
<b>2</b>	21.0	18.1	19.1	14.2	12.1	12.8	13.7	12.0	12.7	3.5	2.1	2.6
<b>3</b>	20.2	17.4	18.6	14.0	11.6	12.7	15.1	12.5	13.9	4.4	2.6	3.5
<b>4</b>	18.9	17.3	18.3	12.9	11.1	11.7	14.4	11.5	13.4	5.1	3.5	4.0
<b>5</b>	17.3	13.9	15.8	12.4	11.5	12.1	11.5	10.0	10.7	5.5	4.0	4.7
<b>6</b>	13.9	12.1	13.0	13.0	11.0	11.7	10.4	9.6	10.0	6.0	4.4	5.0
<b>7</b>	14.1	11.1	12.2	12.6	10.3	11.2	11.3	10.3	10.8	5.9	4.2	4.8
<b>8</b>	14.6	11.6	12.7	12.4	10.0	11.0	11.0	10.0	10.5	7.9	5.3	6.5
<b>9</b>	14.9	12.6	13.5	14.8	11.3	13.1	10.2	7.5	9.4	7.9	6.6	7.1
<b>10</b>	15.6	12.9	13.9	16.8	14.3	15.6	7.5	4.2	5.7	8.9	6.8	7.2
<b>11</b>	15.5	13.2	14.2	16.3	8.7	12.7	5.2	3.3	4.1	8.9	6.4	7.0
<b>12</b>	15.6	14.9	15.3	9.0	7.6	8.4	5.7	3.8	4.5	6.8	4.9	6.2
<b>13</b>	18.1	14.9	16.8	9.7	6.9	8.3	6.9	4.4	5.5	4.9	2.4	3.4
<b>14</b>	18.6	17.4	17.9	11.4	9.5	10.4	7.4	5.8	6.5	3.1	1.4	2.1
<b>15</b>	17.7	15.6	16.8	11.2	9.9	10.6	11.0	7.4	9.0	3.5	1.8	2.3
<b>16</b>	---	---	---	11.9	10.0	10.7	7.8	6.8	7.2	3.5	1.7	2.5
<b>17</b>	17.9	---	---	11.6	9.7	10.4	9.0	7.5	8.0	5.8	3.0	4.2
<b>18</b>	16.4	13.5	14.7	11.9	9.8	10.7	9.1	7.1	7.8	7.2	4.8	5.7
<b>19</b>	13.7	12.3	12.8	13.7	11.4	12.3	7.9	7.5	7.7	8.6	6.2	7.1
<b>20</b>	14.7	11.8	13.0	13.7	11.7	12.4	9.8	2.5	5.5	7.5	5.0	6.6
<b>21</b>	16.7	13.7	15.0	13.3	11.0	11.9	4.1	2.3	3.1	5.0	2.6	3.7
<b>22</b>	19.6	16.7	18.4	---	11.9	---	5.5	2.4	3.7	3.7	1.9	2.5
<b>23</b>	21.5	19.5	20.4	---	---	---	6.0	4.8	5.3	4.3	1.6	2.7
<b>24</b>	22.4	20.3	21.2	---	---	---	5.2	3.6	4.5	3.6	2.2	2.9
<b>25</b>	21.5	15.6	19.3	---	---	---	3.6	1.5	2.8	4.9	2.4	3.4
<b>26</b>	15.6	12.1	13.4	9.2	---	---	2.1	0.6	1.1	6.6	4.2	5.3
<b>27</b>	12.1	10.2	11.0	7.2	5.3	6.2	2.8	0.8	1.7	9.8	6.3	7.6
<b>28</b>	12.1	9.6	10.5	7.3	4.9	5.9	4.0	2.6	3.5	13.9	9.8	12.0
<b>29</b>	11.9	10.2	10.9	8.5	5.4	7.0	4.5	2.9	3.5	14.3	7.7	11.4
<b>30</b>	11.6	10.2	10.8	10.8	8.5	9.5	4.3	2.5	3.3	7.7	4.9	6.2
<b>31</b>	12.9	10.4	11.3	---	---	---	4.9	3.7	4.4	4.9	2.6	4.2
<b>Month</b>	---	---	---	---	---	---	15.1	0.6	6.8	14.3	1.4	5.1

## 385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

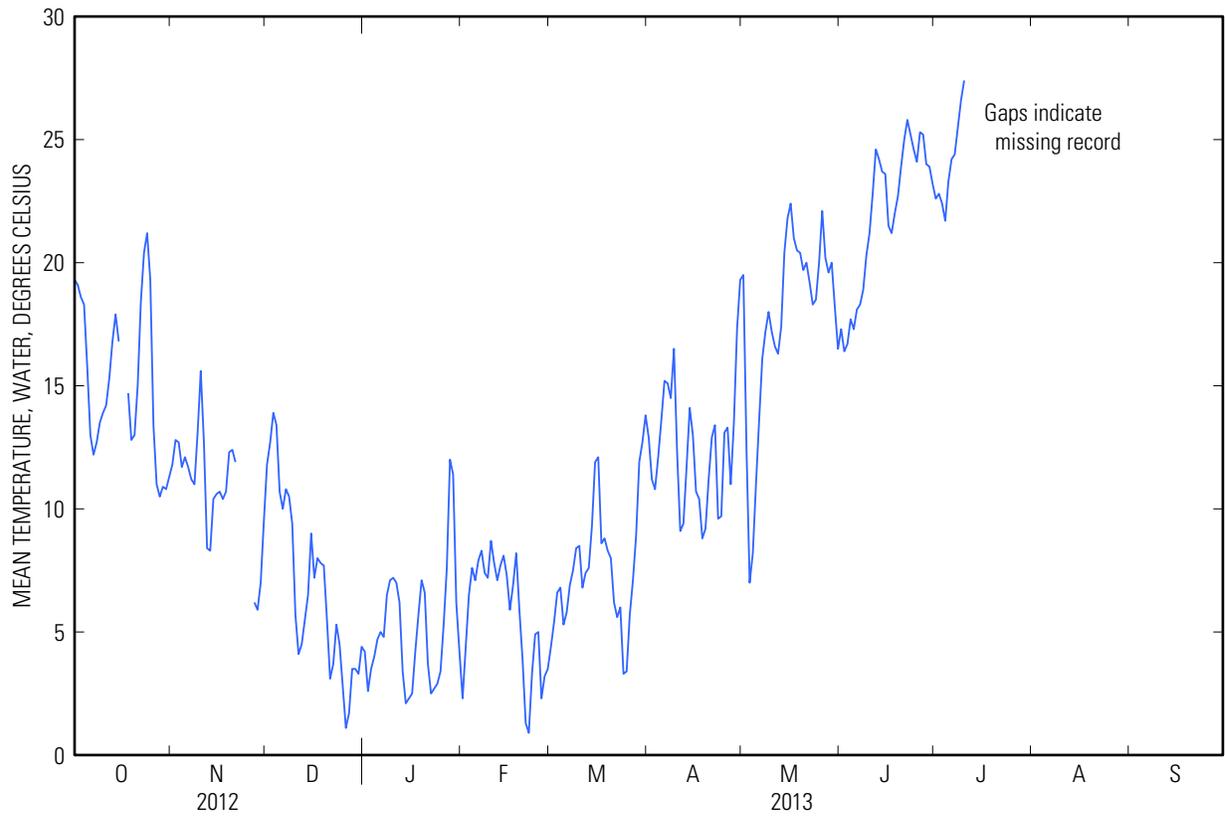
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
<b>1</b>	3.2	1.2	2.3	5.0	3.6	4.4	14.2	11.7	12.9	21.5	17.8	19.5
<b>2</b>	6.3	3.0	4.4	7.3	3.7	5.4	12.7	9.6	11.2	18.7	6.2	12.4
<b>3</b>	7.6	5.4	6.5	8.4	5.2	6.6	11.9	9.3	10.8	8.0	5.9	7.0
<b>4</b>	8.8	6.9	7.6	8.0	5.9	6.8	14.8	9.9	12.1	9.7	7.0	8.2
<b>5</b>	8.1	5.9	7.1	6.3	4.6	5.3	15.6	11.2	13.6	12.5	9.7	11.0
<b>6</b>	9.8	6.7	7.9	7.8	4.2	5.8	17.0	13.5	15.2	16.3	12.1	13.6
<b>7</b>	9.8	7.2	8.3	8.7	5.2	6.9	16.8	14.0	15.1	19.3	13.6	16.1
<b>8</b>	8.1	6.6	7.4	9.2	5.6	7.5	16.2	12.2	14.5	19.0	16.0	17.2
<b>9</b>	8.2	6.2	7.2	9.1	7.9	8.4	17.5	15.9	16.5	19.7	16.5	18.0
<b>10</b>	10.0	7.6	8.7	9.0	7.5	8.5	17.1	9.7	12.3	18.6	16.5	17.2
<b>11</b>	8.7	6.6	7.8	7.5	6.1	6.8	9.7	8.6	9.1	19.0	14.4	16.6
<b>12</b>	8.0	6.4	7.1	9.3	6.1	7.4	11.6	7.7	9.4	18.6	13.8	16.3
<b>13</b>	8.8	6.3	7.7	9.4	6.2	7.6	14.4	9.7	11.7	19.9	14.8	17.4
<b>14</b>	8.8	7.3	8.1	12.3	7.0	9.3	15.9	12.5	14.1	22.9	17.9	20.4
<b>15</b>	8.5	6.4	7.3	14.6	9.5	11.9	14.9	11.7	13.0	23.7	19.4	21.8
<b>16</b>	6.9	5.2	5.9	14.1	11.0	12.1	11.7	10.3	10.7	23.5	20.8	22.4
<b>17</b>	8.8	5.6	6.9	11.0	7.2	8.6	11.6	10.0	10.4	22.9	19.9	21.0
<b>18</b>	8.8	6.8	8.2	11.3	6.8	8.8	10.0	8.0	8.8	22.2	18.9	20.5
<b>19</b>	6.9	4.9	5.9	10.3	7.4	8.3	12.0	7.0	9.2	22.2	18.6	20.4
<b>20</b>	5.6	3.0	3.9	9.4	6.4	8.0	13.4	9.3	11.2	20.8	18.6	19.7
<b>21</b>	3.1	-0.2	1.3	8.7	5.4	6.2	14.7	11.4	12.9	21.4	18.4	20.0
<b>22</b>	2.3	-0.3	0.9	6.0	5.2	5.6	14.4	12.3	13.4	21.2	18.0	19.2
<b>23</b>	5.0	2.0	3.3	6.4	4.5	6.0	13.9	7.6	9.6	19.0	17.1	18.3
<b>24</b>	7.3	3.1	4.9	4.5	2.4	3.3	13.1	7.2	9.7	20.4	16.5	18.5
<b>25</b>	6.2	3.4	5.0	5.0	2.3	3.4	16.3	10.5	13.1	21.5	18.1	20.0
<b>26</b>	3.4	1.8	2.3	9.0	3.8	5.7	15.2	12.2	13.3	23.1	20.9	22.1
<b>27</b>	3.7	2.4	3.2	8.8	5.6	7.1	12.2	10.2	11.0	23.1	17.9	20.2
<b>28</b>	4.0	3.0	3.5	11.6	6.7	8.9	17.2	10.6	13.5	20.1	19.1	19.6
<b>29</b>	---	---	---	14.5	9.7	11.9	20.7	14.6	17.3	21.2	18.9	20.0
<b>30</b>	---	---	---	13.3	12.1	12.7	21.7	17.2	19.3	20.4	17.5	18.2
<b>31</b>	---	---	---	16.1	12.1	13.8	---	---	---	17.7	15.1	16.5
<b>Month</b>	10.0	-0.3	5.7	16.1	2.3	7.7	21.7	7.0	12.5	23.7	5.9	17.7

385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	18.2	16.6	17.3	24.0	21.2	22.6	---	---	---	---	---	---
2	17.2	15.8	16.4	24.7	21.4	22.8	---	---	---	---	---	---
3	19.4	14.5	16.7	24.8	19.2	22.4	---	---	---	---	---	---
4	18.4	17.1	17.7	23.8	19.7	21.7	---	---	---	---	---	---
5	17.8	16.9	17.3	24.7	21.6	23.3	---	---	---	---	---	---
6	19.9	16.8	18.1	25.1	23.2	24.2	---	---	---	---	---	---
7	19.9	16.8	18.3	25.7	23.0	24.4	---	---	---	---	---	---
8	21.1	16.9	18.9	26.7	24.3	25.5	---	---	---	---	---	---
9	22.1	18.7	20.3	28.0	25.3	26.6	---	---	---	---	---	---
10	23.6	19.0	21.2	29.0	26.3	27.4	---	---	---	---	---	---
11	25.0	20.7	22.8	---	24.9	---	---	---	---	---	---	---
12	26.6	22.4	24.6	---	---	---	---	---	---	---	---	---
13	26.1	22.4	24.2	---	---	---	---	---	---	---	---	---
14	25.1	22.1	23.7	---	---	---	---	---	---	---	---	---
15	25.4	21.6	23.6	---	---	---	---	---	---	---	---	---
16	22.5	20.6	21.5	---	---	---	---	---	---	---	---	---
17	22.3	20.5	21.2	---	---	---	---	---	---	---	---	---
18	24.0	20.1	22.0	---	---	---	---	---	---	---	---	---
19	24.8	20.5	22.7	---	---	---	---	---	---	---	---	---
20	25.8	21.8	23.9	---	---	---	---	---	---	---	---	---
21	26.4	23.2	25.0	---	---	---	---	---	---	---	---	---
22	27.1	24.0	25.8	---	---	---	---	---	---	---	---	---
23	26.9	24.4	25.2	---	---	---	---	---	---	---	---	---
24	25.4	23.5	24.6	---	---	---	---	---	---	---	---	---
25	25.0	23.4	24.1	---	---	---	---	---	---	---	---	---
26	27.5	23.2	25.3	---	---	---	---	---	---	---	---	---
27	27.2	23.7	25.2	---	---	---	---	---	---	---	---	---
28	25.7	22.2	24.0	---	---	---	---	---	---	---	---	---
29	25.2	22.4	23.9	---	---	---	---	---	---	---	---	---
30	24.2	22.1	23.2	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	27.5	14.5	22.0	---	---	---	---	---	---	---	---	---

385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued



## 385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	8.8	7.6	8.2	10.1	8.9	9.4	10.2	9.0	9.8	13.1	10.9	11.8
2	9.2	7.8	8.3	9.9	8.6	9.1	10.1	9.0	9.4	13.7	11.8	12.8
3	9.4	7.9	8.4	9.9	8.5	9.2	10.1	8.6	9.4	13.7	12.4	13.2
4	9.3	7.8	8.3	10.5	8.9	9.6	9.9	8.7	9.1	13.8	12.4	13.1
5	9.8	8.2	9.0	9.9	8.1	8.8	10.9	9.2	10.1	13.8	12.2	13.0
6	10.9	9.3	10.1	10.2	8.3	9.1	11.1	9.8	10.5	13.6	11.7	12.8
7	11.6	10.2	10.7	10.3	9.1	9.5	10.8	9.3	10.2	14.2	11.9	13.1
8	11.3	9.9	10.5	10.7	9.2	9.9	10.8	9.6	10.1	13.9	11.1	12.6
9	10.9	9.3	10.0	10.2	8.5	9.4	10.9	10.0	10.4	13.4	10.4	12.0
10	10.9	9.5	10.0	9.4	7.4	8.5	12.4	10.2	11.6	12.6	10.2	11.4
11	11.5	9.6	10.2	10.6	7.7	9.2	13.1	12.2	12.7	11.5	10.2	11.1
12	10.3	8.6	9.6	10.8	10.5	10.7	13.0	12.0	12.6	11.6	10.4	10.9
13	9.8	7.9	8.4	10.9	10.5	10.7	12.9	11.7	12.4	14.0	11.4	12.6
14	7.9	7.7	7.8	10.6	10.1	10.3	12.5	11.1	12.0	14.3	12.7	13.6
15	8.3	7.6	7.9	10.2	9.7	10	12.0	9.4	10.3	14.3	13.0	13.8
16	---	---	---	10.3	9.6	9.9	10.7	10.0	10.3	14.3	13.2	13.8
17	---	---	---	10.6	9.8	10.0	11.3	9.9	10.5	14.1	12.6	13.3
18	7.9	6.4	7.1	10.6	9.7	10.0	11.4	10.6	11.0	13.8	11.9	12.9
19	8.4	7.9	8.0	10.4	9.0	9.5	11.4	10.3	10.9	13.5	11.5	12.5
20	8.8	8.2	8.5	10.1	9.1	9.4	12.3	9.5	11.2	13.7	11.6	12.5
21	8.4	7.4	7.9	10.3	9.4	9.8	12.6	12.1	12.3	14.6	12.6	13.6
22	7.7	6.3	7.0	---	9.2	---	12.7	11.8	12.2	15.1	13.5	14.4
23	6.6	5.8	6.2	---	---	---	12.4	11.0	11.7	15.4	13.6	14.5
24	6.4	5.7	6.0	---	---	---	13.1	11.1	12.1	15.2	13.3	14.3
25	6.5	5.5	5.9	---	---	---	13.4	12.1	12.7	15.2	13.4	14.3
26	8.6	6.5	7.5	---	---	---	14.0	13.4	13.6	14.8	13.0	13.9
27	9.6	8.2	9.1	11.9	10.9	11.5	14.1	13.2	13.7	14.1	10.7	11.8
28	9.9	9.2	9.6	12.4	11.3	11.9	13.6	11.9	12.6	12.4	8.8	10.7
29	9.9	9.0	9.5	12.2	11.0	11.5	13.3	12.0	12.6	11.5	7.6	9.8
30	9.9	9.0	9.4	11.1	10.0	10.7	13.8	12.8	13.2	11.9	11.1	11.6
31	10.0	8.9	9.4	---	---	---	13.5	11.6	12.5	13.0	11.9	12.4
Month	---	---	---	---	---	---	14.1	8.6	11.4	15.4	7.6	12.7

## 385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

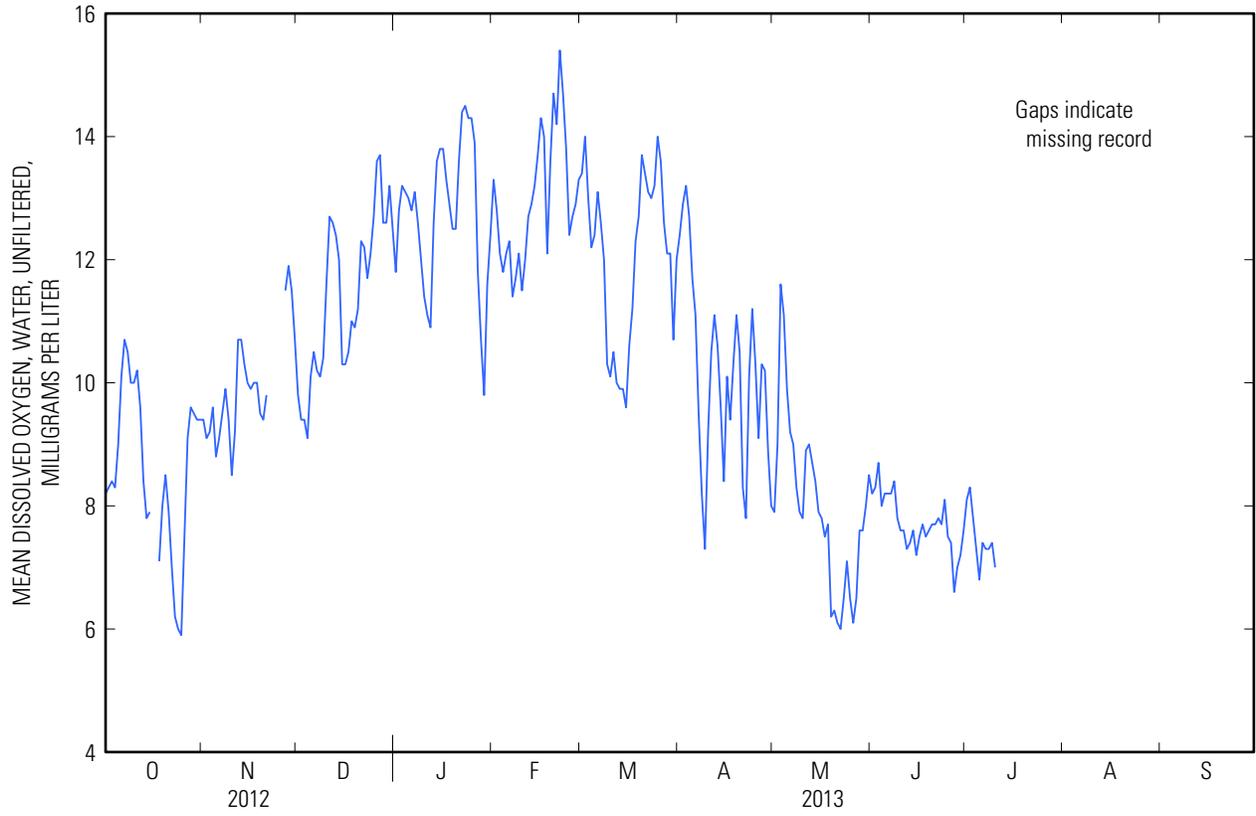
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	13.6	12.9	13.3	15.6	11.4	13.4	17.3	8.1	12.4	9.6	6.8	7.9
2	13.2	12.2	12.8	16.9	11.7	14.0	17.2	8.9	12.9	11.6	7.2	9.0
3	12.7	11.5	12.1	16.7	10.8	13.0	17.0	9.3	13.2	11.9	11.0	11.6
4	12.4	10.9	11.8	15.6	10.6	12.2	15.8	9.2	12.7	11.4	10.1	11.1
5	12.8	11.1	12.1	13.6	11.4	12.4	14.4	8.3	11.7	10.7	9.0	9.9
6	13.2	11.2	12.3	15.6	11.6	13.1	13.8	8.1	11.1	10.6	8.4	9.2
7	12.5	10.4	11.4	15.7	11.1	12.6	12.1	7.4	9.5	10.5	7.9	9.0
8	12.1	11.2	11.7	14.5	10.4	12.0	9.2	7.4	8.2	9.9	7.2	8.3
9	12.7	11.4	12.1	10.8	9.7	10.3	8.5	6.7	7.3	9.2	7.0	7.9
10	12.0	10.9	11.5	10.6	9.9	10.1	10.2	7.6	9.2	9.2	6.8	7.8
11	13.2	10.8	12.0	11.2	9.9	10.5	11.1	10.0	10.5	10.5	7.4	8.9
12	13.8	11.1	12.7	10.4	9.5	10	12.3	10.3	11.1	11.0	7.5	9.0
13	13.9	11.1	12.9	10.9	8.8	9.9	11.9	9.4	10.6	10.4	7.3	8.7
14	14.8	11.2	13.2	11.2	8.6	9.9	11.2	7.8	9.6	10.1	6.3	8.4
15	15.5	11.6	13.7	12.1	7.5	9.6	9.4	7.0	8.4	9.5	5.7	7.9
16	16.0	12.3	14.3	13.0	8.4	10.6	11.9	8.6	10.1	9.4	5.7	7.8
17	15.6	11.8	14.0	12.9	9.6	11.2	11.2	8.8	9.4	9.3	5.4	7.5
18	15.4	10.7	12.1	15.0	10.2	12.3	10.6	9.4	10.3	9.1	6.0	7.7
19	16.3	11.2	13.6	15.3	10.0	12.7	12.0	10.4	11.1	8.2	5.4	6.2
20	16.2	12.9	14.7	16.7	10.4	13.7	11.9	8.9	10.5	6.9	5.5	6.3
21	16.2	12.9	14.2	15.3	11.0	13.4	9.7	7.0	8.3	7.1	5.1	6.1
22	17.1	13.6	15.4	15.0	10.9	13.1	9.7	6.2	7.8	7.0	4.8	6.0
23	16.6	12.4	14.7	15.4	10.9	13.0	11.3	7.8	10.1	7.7	5.4	6.5
24	16.6	11.4	13.8	15.8	11.5	13.2	12.0	10.1	11.2	8.0	6.0	7.1
25	14.4	10.4	12.4	16.9	12.2	14.0	11.8	9.3	10.3	7.8	5.7	6.5
26	14.1	11.7	12.7	17.5	11.3	13.6	9.7	8.3	9.1	6.8	5.1	6.1
27	14.2	12.1	12.9	17.3	10.8	12.6	10.6	9.5	10.3	8.0	4.0	6.5
28	14.9	12.1	13.3	15.0	10.2	12.1	11.2	8.8	10.2	7.9	7.4	7.6
29	---	---	---	16.4	9.5	12.1	10.0	7.2	8.9	8.0	7.3	7.6
30	---	---	---	14.4	8.4	10.7	9.8	6.4	8.0	8.6	7.3	8.0
31	---	---	---	16.7	8.5	12.0	---	---	---	9.5	7.9	8.5
Month	17.1	10.4	13.0	17.5	7.5	12.0	17.3	6.2	10.1	11.9	4.0	8.0

385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	8.5	7.9	8.2	8.8	7.2	8.1	---	---	---	---	---	---
2	8.9	7.8	8.3	9.0	7.4	8.3	---	---	---	---	---	---
3	8.9	8.4	8.7	9.5	6.8	7.8	---	---	---	---	---	---
4	8.5	7.5	8.0	8.0	6.6	7.3	---	---	---	---	---	---
5	8.7	8.0	8.2	7.5	6.0	6.8	---	---	---	---	---	---
6	8.3	8.0	8.2	8.6	6.2	7.4	---	---	---	---	---	---
7	8.5	8.1	8.2	8.4	6.0	7.3	---	---	---	---	---	---
8	8.7	8.0	8.4	8.3	5.9	7.3	---	---	---	---	---	---
9	8.1	7.4	7.8	8.1	6.1	7.4	---	---	---	---	---	---
10	8.2	7.3	7.6	7.8	5.8	7.0	---	---	---	---	---	---
11	8.2	7.1	7.6	---	6.0	---	---	---	---	---	---	---
12	8.1	6.6	7.3	---	---	---	---	---	---	---	---	---
13	8.2	6.4	7.4	---	---	---	---	---	---	---	---	---
14	8.2	6.6	7.6	---	---	---	---	---	---	---	---	---
15	8.3	6.4	7.2	---	---	---	---	---	---	---	---	---
16	8.0	7.2	7.5	---	---	---	---	---	---	---	---	---
17	8.3	6.9	7.7	---	---	---	---	---	---	---	---	---
18	8.2	7.0	7.5	---	---	---	---	---	---	---	---	---
19	8.1	7.1	7.6	---	---	---	---	---	---	---	---	---
20	8.5	6.9	7.7	---	---	---	---	---	---	---	---	---
21	8.6	6.7	7.7	---	---	---	---	---	---	---	---	---
22	9.1	6.5	7.8	---	---	---	---	---	---	---	---	---
23	9.3	6.3	7.7	---	---	---	---	---	---	---	---	---
24	9.3	6.6	8.1	---	---	---	---	---	---	---	---	---
25	8.8	6.2	7.5	---	---	---	---	---	---	---	---	---
26	8.8	6.0	7.4	---	---	---	---	---	---	---	---	---
27	8.0	5.6	6.6	---	---	---	---	---	---	---	---	---
28	8.6	5.4	7.0	---	---	---	---	---	---	---	---	---
29	8.2	6.2	7.2	---	---	---	---	---	---	---	---	---
30	8.7	6.6	7.6	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	9.3	5.4	7.7	---	---	---	---	---	---	---	---	---

385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued



385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	4.0	1.9	2.7	3.4	1.8	2.4	4.5	2.0	3.2	23	6.7	11
2	4.5	1.2	2.5	3.8	1.9	2.7	4.2	2.2	3.3	6.9	4.9	5.8
3	4.3	1.2	2.3	3.9	2.1	2.8	3.9	2.1	2.7	5.6	2.8	3.7
4	3.7	0.9	1.9	3.8	1.9	2.7	6.6	2.8	4.3	5.0	2.9	3.5
5	2.8	0.5	1.2	3.9	2.2	3.0	5.4	2.6	3.7	4.6	2.9	3.6
6	1.7	0.4	0.7	4.3	2.1	3.1	3.7	1.8	2.6	5.9	3.2	4.1
7	1.3	0.2	0.6	3.4	1.6	2.3	4.1	1.9	2.7	4.5	2.3	2.8
8	3.3	0.7	1.8	2.9	1.6	2.2	4.1	1.9	2.8	4.8	2.7	3.5
9	2.8	0.8	1.2	4.3	2.1	3.0	3.5	1.4	2.0	47	3.5	13
10	2.4	0.3	1.0	5.2	2.4	3.7	2.8	1.3	1.7	130	5.5	28
11	1.6	0.2	0.7	430	3.8	120	3.8	1.5	2.1	170	40	71
12	2.5	0.5	1.2	38	8.0	18	3.5	1.7	2.2	62	16	35
13	160	1.9	48	8.0	2.7	4.8	3.6	1.7	2.0	17	6.6	10
14	110	8.6	29	77	2.6	18	37	1.4	2.6	8.7	5.2	6.9
15	9.5	2.1	4.9	4.0	2.0	2.7	87	18	37	7.1	3.8	5.0
16	---	---	---	3.4	1.6	2.3	19	6.7	13	4.8	2.7	3.7
17	6.5	---	---	2.5	1.6	2.0	7.4	2.7	4.3	5.1	2.7	3.6
18	6.6	2.7	3.7	3.0	1.5	2.0	3.3	1.4	2.1	4.6	3.0	3.6
19	4.8	1.8	3.0	3.1	1.7	2.2	24	1.3	2.4	5.3	3.1	4.1
20	4.5	1.9	2.7	3.8	2.2	2.8	150	16	58	6.3	2.3	4.2
21	4.5	2.4	3.3	4.4	2.1	2.8	39	12	20	5.6	2.3	3.5
22	4.7	2.3	3.3	---	2.4	---	48	6.5	13	9.4	2.6	3.6
23	4.8	2.8	3.5	---	---	---	44	3.1	7.4	6.3	2.8	3.7
24	5.2	2.9	3.9	---	---	---	4.1	2.3	2.8	5.8	2.9	3.8
25	5.6	3.0	4.0	---	---	---	3.9	2.1	2.7	6.5	3.5	4.8
26	55	1.9	15	---	---	---	4.5	2.4	3.3	5.6	3.8	4.5
27	40	2.7	9.5	5.0	1.7	2.7	4.4	2.8	3.4	10	4.8	7.9
28	7.2	1.8	4.5	3.4	1.5	2.1	3.7	2.6	3.1	8.1	4.5	6.1
29	5.5	1.7	2.9	3.7	1.8	2.6	4.4	2.7	3.2	600	4.9	210
30	3.6	1.6	2.5	4.3	2.5	3.2	4.3	3.2	3.8	98	15	40
31	3.3	1.9	2.4	---	---	---	23	3.2	6.8	15	7.3	10
Month	---	---	---	---	---	---	150	1.3	7.2	600	2.3	17

## 385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

**TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	7.4	4.5	6.0	8.9	5.7	6.8	8.3	3.5	5.4	9.1	4.6	6.7
2	5.8	3.2	4.3	7.5	4.9	6.2	7.6	3.2	4.8	74	7.9	29
3	4.9	2.7	3.4	14	6.6	8.8	5.8	3.2	4.2	45	11	20
4	3.9	2.2	2.7	57	10	20	6.6	3.5	4.5	61	11	20
5	3.4	1.4	2.3	59	13	28	6.2	2.6	4.1	11	5.7	7.4
6	3.6	1.7	2.6	14	9.4	12	9.5	3.0	4.4	9.8	5.0	6.2
7	520	3.4	140	28	8.2	14	420	3.5	36	13	6.8	9.6
8	74	14	36	69	17	32	700	22	170	10	5.8	7.8
9	14	5.1	8.6	640	35	130	280	5.4	20	44	6.9	11
10	9.8	5.3	7.3	520	24	170	290	59	130	9.4	5.4	6.9
11	5.8	2.5	3.9	24	7.6	14	62	13	27	9.4	4.2	6.7
12	3.4	2.1	2.5	7.6	4.9	5.8	24	4.1	8.3	30	5.9	10
13	3.9	1.9	2.5	5.5	3.5	4.0	7.0	3.3	4.4	26	3.1	13
14	3.9	2.3	2.9	4.2	2.2	3.1	21	4.6	7.1	6.4	2.6	4.0
15	6.1	2.4	3.4	5.5	3.6	4.2	25	10	16	5.0	1.8	3.2
16	4.3	2.3	2.8	6.6	4.3	5.1	12	4.1	7.5	---	---	---
17	4.5	2.5	3.1	11	2.2	4.4	220	3.0	59	---	---	---
18	5.0	3.5	4.1	13	4.0	6.4	210	39	100	13	3.2	5.6
19	5.1	2.8	3.7	4.9	2.0	3.1	39	9.6	20	370	4.4	87
20	5.1	2.8	3.4	4.0	2.6	3.2	14	7.5	9.7	92	8.0	27
21	4.9	2.8	3.3	3.6	1.9	2.6	9.7	6.1	7.0	8.6	4.1	5.8
22	5.5	2.9	3.8	2.6	1.9	2.1	8.0	5.0	6.4	6.9	4.5	5.5
23	6.0	4.2	5.1	25	2.0	5.0	74	6.3	32	7.4	3.9	5.2
24	16	4.9	8.0	32	11	19	21	7.0	12	7.3	4.1	5.3
25	15	6.7	9.7	23	11	15	7.7	4.1	5.9	7.7	2.8	4.9
26	23	9.5	17	17	7.7	11	32	5.9	15	6.7	2.5	4.4
27	19	14	16	51	9.4	17	130	22	57	720	3.7	220
28	15	7.5	11	54	15	24	22	5.9	11	100	11	33
29	---	---	---	20	8.8	14	7.9	5.5	6.6	18	6.8	11
30	---	---	---	13	5.9	8.5	12	4.3	8.0	470	18	150
31	---	---	---	8.2	4.1	5.8	---	---	---	710	33	240
<b>Month</b>	520	1.4	11	640	1.9	20	700	2.6	27	---	---	---

385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	48	12	23	7.5	2.1	4.0	---	---	---	---	---	---
2	13	6.7	8.9	9.1	1.8	4.1	---	---	---	---	---	---
3	9.4	5.1	6.9	350	2.3	36	---	---	---	---	---	---
4	73	7.0	20	38	7.3	17	---	---	---	---	---	---
5	470	8.2	120	12	5.2	7.1	---	---	---	---	---	---
6	90	13	34	12	3.0	5.8	---	---	---	---	---	---
7	15	12	13	8.6	2.5	4.6	---	---	---	---	---	---
8	17	6.1	11	7.5	1.7	3.7	---	---	---	---	---	---
9	320	6.7	88	8.9	1.4	3.2	---	---	---	---	---	---
10	23	6.2	14	5.7	1.4	3.1	---	---	---	---	---	---
11	16	5.0	11	---	---	---	---	---	---	---	---	---
12	14	5.2	9.8	---	---	---	---	---	---	---	---	---
13	12	5.1	8.7	---	---	---	---	---	---	---	---	---
14	13	4.7	8.5	---	---	---	---	---	---	---	---	---
15	810	6.0	140	---	---	---	---	---	---	---	---	---
16	230	17	62	---	---	---	---	---	---	---	---	---
17	110	---	---	---	---	---	---	---	---	---	---	---
18	---	7.1	---	---	---	---	---	---	---	---	---	---
19	15	4.4	11	---	---	---	---	---	---	---	---	---
20	14	---	---	---	---	---	---	---	---	---	---	---
21	---	2.8	---	---	---	---	---	---	---	---	---	---
22	11	4.5	7.0	---	---	---	---	---	---	---	---	---
23	10	1.9	4.7	---	---	---	---	---	---	---	---	---
24	15	1.7	6.4	---	---	---	---	---	---	---	---	---
25	9.5	2.9	5.8	---	---	---	---	---	---	---	---	---
26	8.1	2.4	4.6	---	---	---	---	---	---	---	---	---
27	48	2.4	5.7	---	---	---	---	---	---	---	---	---
28	51	2.7	13	---	---	---	---	---	---	---	---	---
29	8.4	2.4	5.0	---	---	---	---	---	---	---	---	---
30	8.1	2.5	4.1	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

385608094380300 INDIAN CREEK AT INDIAN CREEK PARKWAY, OVERLAND PARK, KS—Continued

