



Water-Data Report 2013

01454700 LEHIGH RIVER AT GLENDON, PA

Upper Delaware Basin
Lehigh Subbasin

LOCATION.--Lat 40°40'09", long 75°14'12" referenced to North American Datum of 1927, Northampton County, PA, Hydrologic Unit 02040106, on right bank, on right upstream bridge wall at entrance to Hugh Moore Parkway at Glendon, 2.3 mi upstream from mouth, and 2.0 mi southwest of Easton.

DRAINAGE AREA.--1,359 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1966 to September 2005, (continuous-record gaging station), October 2005 to current year.

REVISED RECORDS.--WDR PA-72-1: 1971(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 164.30 feet above National Geodetic Vertical Datum of 1929. Satellite telemetry at station.

COOPERATION.--Station established and maintained by the U.S. Geological Survey. Funding for the operation of this station is provided by the Pennsylvania Department of Environmental Protection and U.S. Geological Survey through the Cooperative Water Program.

REMARKS.--Flow regulated by Francis E. Walter Reservoir (station 01447780), Penn Forest Reservoir (station 01449400), Wild Creek Reservoir (station 01449700), and since February 1971, by Beltzville Lake (station 01449790) about 60 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Discharge, 60,600 ft³/s (gage height 24.86 ft), Jun 23, 1972, gage height, 27.93 ft (from floodmark; backwater from Delaware River), Jun 28, 2006.

PEAK DISCHARGES FOR CURRENT YEAR.--

**MAXIMUM PEAK DISCHARGE
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Date	Discharge, in ft ³ /s	Discharge qualification code	Gage height, in ft	Gage height qualification code
Dec 21, 2012	15,900	6	14.25	---

Discharge qualification code:

6 - Discharge affected by regulation or diversion

01454700 LEHIGH RIVER AT GLENDON, PA—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--November 1956 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 2010 to current year.

pH: July 2010 to current year.

WATER TEMPERATURE: July 2010 to current year.

DISSOLVED OXYGEN: July 2010 to current year.

INSTRUMENTATION.--Water-quality monitor since July 2010. Sonde interfaced with a data collection platform since the 2010 water year.

REMARKS.--Water temperature, specific conductance and dissolved oxygen records rated good except for those for the period from October 5 to October 31, and April 1 to May 9, which are fair. pH records rated fair except those for period from October 5 to October 31, which are poor. No data were recorded during the period from November 1 through March 31.

Water-quality sampling analyses for pH, water temperature, specific conductance, and dissolved oxygen were performed on site. All other sample analyses were performed at the Pennsylvania Department of Environmental Protection laboratory in Harrisburg, Pa. Occasionally, values for filtered parameters may exceed values for the corresponding unfiltered parameter. These results are within the limits of analytical precision and methods.

COOPERATION.--Water-quality samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection. Funding for the operation of the continuous water-quality monitor is provided by the Delaware River Basin Commission.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 441 microsiemens/cm, Aug 22, 2010; minimum, 99 microsiemens/cm, Sep 19, 2012.

pH: Maximum, 8.7, Aug 01, 2010, also Sep 26, 28, and 30, 2013; minimum, 7.1, Oct 1, 2010.

WATER TEMPERATURE: Maximum, 28.2 °C, Jul 23, 2011; minimum, 6.0°C, Apr 4, 2013.

DISSOLVED OXYGEN: Maximum, 13.7 mg/L, Apr 4, 2013; minimum, 5.4 mg/L, Apr 14, 2012.

WATER-QUALITY DATA**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Part 1 of 5

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Osmotic pressure, water, unfiltered, milliosmoles per kilogram (82550)	pH, water, unfiltered, field, standard units (00400)	pH, water, unfiltered, laboratory, standard units (00403)	Specific conductance, water, unfiltered, laboratory, µS/cm at 25°C (90095)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)
11-08-2012	1300	3,040	12.4	1.0	7.5	7.7	191	184	6.5	128
01-17-2013	1230	3,500	13.2	--	7.5	7.6	255	248	4.1	154
03-13-2013	1200	E 8,000	12.2	6.0	7.4	7.5	156	158	7.3	120
05-07-2013	1400	1,610	10.4	--	7.9	8.1	264	257	16.8	164
07-09-2013	1500	2,840	9.1	5.0	7.6	7.7	202	196	23.2	122
09-25-2013	1430	1,080	11.2	6.0	8.3	8.2	348	340	16.7	224

01454700 LEHIGH RIVER AT GLENDON, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 5

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, unfiltered, recoverable, mg/L (00916)	Magnesium, water, unfiltered, recoverable, mg/L (00927)	Potassium, water, unfiltered, recoverable, mg/L (00937)	Sodium, water, unfiltered, recoverable, mg/L (00929)	ANC, water, unfiltered, fixed endpoint titration, mg/L as CaCO ₃ (00417)	Bromide, water, filtered, mg/L (71870)	Chloride, water, filtered, mg/L (00940)
11-08-2012	1300	61	14	14.9	5.9	1.6	10.1	42	< 0.025	17.5
01-17-2013	1230	61	< 5	15.6	5.3	1.4	22.4	37	< 0.025	40.9
03-13-2013	1200	42	56	11.0	3.6	1.5	13.2	26	< 0.025	24.7
05-07-2013	1400	84	< 5	20.1	8.1	2.0	15.4	62	--	28.9
07-09-2013	1500	60	< 5	14.3	5.8	1.4	13.0	42	< 0.025	20.2
09-25-2013	1430	110	< 5	27.2	11.1	3.1	19.4	81	M	26.9

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 5

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, unfiltered, mg/L as N (00610)	Nitrate, water, unfiltered, mg/L as N (00620)	Nitrite, water, unfiltered, mg/L as N (00615)	Orthophosphate, water, unfiltered, mg/L as P (70507)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, mg/L (00600)	Aluminum, water, unfiltered, recoverable, µg/L (01105)	Barium, water, unfiltered, recoverable, µg/L (01007)
11-08-2012	1300	18.4	0.040	1.51	< .040	0.07	0.075	1.6	< 200	M
01-17-2013	1230	16.5	.070	1.46	< .040	.07	.087	1.8	< 200	M
03-13-2013	1200	10.7	.070	1.01	< .040	.02	.114	1.7	1,400	M
05-07-2013	1400	22.5	.040	1.55	< .040	.12	.137	1.9	< 200	--
07-09-2013	1500	17.1	.060	1.28	< .040	.07	.092	1.5	< 200	M
09-25-2013	1430	29.3	.050	2.43	< .040	.18	.217	2.7	< 200	M

01454700 LEHIGH RIVER AT GLENDON, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 4 of 5

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Copper, water, unfiltered, recoverable, µg/L (01042)	Iron, water, unfiltered, recoverable, µg/L (01045)	Lead, water, unfiltered, recoverable, µg/L (01051)	Manganese, water, unfiltered, recoverable, µg/L (01055)	Nickel, water, unfiltered, recoverable, µg/L (01067)	Strontium, water, unfiltered, recoverable, micrograms per liter (01082)	Zinc, water, unfiltered, recoverable, µg/L (01092)	Boron, water, unfiltered, recoverable, micrograms per liter (01022)	Selenium, water, unfiltered, µg/L (01147)
11-08-2012	1300	< 4	140	< 1.0	30	< 50	60	40	< 200	< 7
01-17-2013	1230	< 4	150	< 1.0	30	< 50	70	40	< 200	< 7
03-13-2013	1200	M	2,350	M	140	< 50	60	70	< 200	< 7
05-07-2013	1400	< 4	100	< 1.0	40	< 50	--	20	--	--
07-09-2013	1500	< 4	250	< 1.0	40	< 50	70	30	< 200	< 7
09-25-2013	1430	< 4	120	< 1.0	20	< 50	120	20	< 200	< 7

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO
SEPTEMBER 2013

Part 5 of 5

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Organic carbon, water, filtered, mg/L (00681)
11-08-2012	1300	2.9
01-17-2013	1230	2.6
03-13-2013	1200	6.6
05-07-2013	1400	2.4
07-09-2013	1500	3.2
09-25-2013	1430	2.5

01454700 LEHIGH RIVER AT GLENDON, PA—Continued

CROSS-SECTION ANALYSES
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 2

[%, percent; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; E, estimated]

Date	Sample start time	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Sample location, relative to right bank, looking downstream, ft (72103)	Sampling depth, ft (00003)
10-05-2012	1032	2,840	9.8	100	7.7	241	15.9	--	--
10-05-2012	1042	2,840	9.8	100	7.7	234	16.1	.0	2.00
10-05-2012	1043	2,840	9.9	100	7.7	233	16.1	15.0	2.00
10-05-2012	1045	2,840	9.9	100	7.7	233	16.1	30.0	2.00
10-05-2012	1046	2,840	9.9	100	7.7	233	16.1	45.0	2.00
10-05-2012	1048	2,840	9.9	100	7.7	233	16.1	60.0	2.00
10-05-2012	1049	2,840	9.9	100	7.7	233	16.1	75.0	2.00
10-05-2012	1051	2,840	9.9	100	7.7	232	16.1	90.0	2.00
10-05-2012	1053	2,840	9.9	100	7.7	232	16.1	105.0	2.00
10-05-2012	1054	2,840	9.9	100	7.8	232	16.1	120.0	2.00
10-05-2012	1055	2,840	9.9	101	7.7	232	16.1	135.0	2.00
10-05-2012	1056	2,840	9.9	101	7.7	231	16.1	150.0	2.00
10-05-2012	1058	2,840	9.9	101	7.7	232	16.2	165.0	2.00
10-05-2012	1100	2,840	9.9	101	7.7	232	16.2	180.0	2.00
10-05-2012	1102	2,840	9.9	101	7.7	232	16.2	195.0	2.00
10-05-2012	1103	2,840	9.9	101	7.7	232	16.2	210.0	2.00
10-05-2012	1104	2,840	9.9	101	7.7	232	16.2	225.0	2.00
10-05-2012	1106	2,840	9.9	101	7.8	232	16.2	240.0	2.00
10-05-2012	1107	2,840	10.0	101	7.8	232	16.3	255.0	2.00
10-05-2012	1108	2,840	10.0	102	7.8	232	16.3	270.0	2.00
10-05-2012	1109	2,840	10.1	103	7.8	233	16.4	285.0	2.00
10-05-2012	1111	2,840	16.7	103	7.8	237	16.7	300.0	2.00
10-05-2012	1115	2,840	9.8	100	7.8	234	16.1	--	2.00
09-25-2013	1157	1,070	10.4	106	8.1	348	16.4	1.0	2.00
09-25-2013	1159	1,070	10.5	107	8.1	342	16.5	15.0	2.00
09-25-2013	1200	1,070	10.5	108	8.1	342	16.6	30.0	2.00
09-25-2013	1202	1,070	10.5	108	8.2	342	16.6	45.0	2.00
09-25-2013	1204	1,070	10.5	108	8.2	342	16.6	60.0	2.00
09-25-2013	1205	1,070	10.5	108	8.2	342	16.6	75.0	2.00
09-25-2013	1206	1,070	10.5	108	8.2	342	16.6	90.0	2.00
09-25-2013	1207	1,070	10.5	108	8.2	342	16.6	105.0	2.00
09-25-2013	1210	1,070	10.5	108	8.2	342	16.6	120.0	2.00
09-25-2013	1211	1,070	10.5	108	8.2	342	16.6	135.0	2.00

01454700 LEHIGH RIVER AT GLENDON, PA—Continued

CROSS-SECTION ANALYSES
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 2

[%, percent; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; E, estimated]

Date	Sample start time	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Sample location, relative to right bank, looking downstream, ft (72103)	Sampling depth, ft (00003)
09-25-2013	1212	1,070	10.5	108	8.1	341	16.6	150.0	2.00
09-25-2013	1213	1,070	10.5	108	8.1	341	16.6	165.0	2.00
09-25-2013	1214	1,070	10.6	109	8.1	341	16.7	180.0	2.00
09-25-2013	1215	1,070	10.7	110	8.2	341	16.7	195.0	2.00
09-25-2013	1216	1,070	11.0	113	8.2	340	16.8	210.0	2.00
09-25-2013	1430	1,080	11.2	--	8.3	340	16.7	--	--

01454700 LEHIGH RIVER AT GLENDON, PA—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	271	254	264	---	---	---	---	---	---	---	---	---
2	270	188	244	---	---	---	---	---	---	---	---	---
3	230	189	215	---	---	---	---	---	---	---	---	---
4	242	229	238	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	278	269	273	---	---	---	---	---	---	---	---	---
12	285	268	278	---	---	---	---	---	---	---	---	---
13	301	276	287	---	---	---	---	---	---	---	---	---
14	310	285	297	---	---	---	---	---	---	---	---	---
15	304	290	298	---	---	---	---	---	---	---	---	---
16	299	285	294	---	---	---	---	---	---	---	---	---
17	292	279	286	---	---	---	---	---	---	---	---	---
18	306	280	294	---	---	---	---	---	---	---	---	---
19	307	196	261	---	---	---	---	---	---	---	---	---
20	196	140	152	---	---	---	---	---	---	---	---	---
21	164	152	157	---	---	---	---	---	---	---	---	---
22	170	164	167	---	---	---	---	---	---	---	---	---
23	170	152	158	---	---	---	---	---	---	---	---	---
24	171	156	164	---	---	---	---	---	---	---	---	---
25	175	168	171	---	---	---	---	---	---	---	---	---
26	190	170	180	---	---	---	---	---	---	---	---	---
27	200	190	194	---	---	---	---	---	---	---	---	---
28	209	196	203	---	---	---	---	---	---	---	---	---
29	218	196	207	---	---	---	---	---	---	---	---	---
30	199	140	167	---	---	---	---	---	---	---	---	---
31	140	129	133	---	---	---	---	---	---	---	---	---
Month	310	129	223	---	---	---	---	---	---	---	---	---

01454700 LEHIGH RIVER AT GLENDON, PA—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	---	---	---	---	---	---	290	233	259	280	250	265
2	---	---	---	---	---	---	255	233	239	283	249	261
3	---	---	---	---	---	---	263	235	244	284	258	268
4	---	---	---	---	---	---	259	239	246	283	259	270
5	---	---	---	---	---	---	259	243	252	295	258	269
6	---	---	---	---	---	---	274	249	262	285	260	271
7	---	---	---	---	---	---	271	255	262	284	260	268
8	---	---	---	---	---	---	268	254	261	286	269	278
9	---	---	---	---	---	---	287	263	271	283	266	276
10	---	---	---	---	---	---	298	263	278	282	245	262
11	---	---	---	---	---	---	327	261	294	245	230	241
12	---	---	---	---	---	---	293	236	266	245	218	231
13	---	---	---	---	---	---	255	238	245	254	222	242
14	---	---	---	---	---	---	263	241	250	259	240	251
15	---	---	---	---	---	---	272	245	256	263	242	252
16	---	---	---	---	---	---	265	244	253	284	252	260
17	---	---	---	---	---	---	279	252	261	273	259	267
18	---	---	---	---	---	---	314	255	276	286	264	275
19	---	---	---	---	---	---	298	256	271	278	248	268
20	---	---	---	---	---	---	278	196	230	286	248	269
21	---	---	---	---	---	---	224	197	205	294	266	281
22	---	---	---	---	---	---	239	203	222	301	286	294
23	---	---	---	---	---	---	233	204	215	299	252	291
24	---	---	---	---	---	---	227	207	212	295	262	281
25	---	---	---	---	---	---	227	215	219	311	248	275
26	---	---	---	---	---	---	226	216	221	249	232	243
27	---	---	---	---	---	---	228	218	222	262	234	253
28	---	---	---	---	---	---	261	227	244	302	252	275
29	---	---	---	---	---	---	272	238	254	308	288	298
30	---	---	---	---	---	---	264	239	247	293	278	285
31	---	---	---	---	---	---	---	---	---	295	272	282
Month	---	---	---	---	---	---	327	196	248	311	218	268

01454700 LEHIGH RIVER AT GLENDON, PA—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	300	279	288	202	170	185	300	265	290	327	241	292
2	318	290	301	195	142	164	305	281	297	291	261	276
3	311	274	304	157	147	152	306	291	299	300	262	281
4	319	292	306	160	151	154	313	278	298	289	273	284
5	337	308	322	175	155	165	292	274	283	316	288	300
6	337	321	328	210	173	194	320	274	298	337	316	329
7	337	259	304	217	206	208	336	317	325	347	333	340
8	274	254	263	216	205	210	336	312	328	348	336	342
9	274	243	257	219	203	212	317	251	292	349	335	341
10	258	236	249	231	214	226	251	191	209	361	335	345
11	258	183	220	248	231	242	224	204	213	379	357	365
12	183	164	175	254	243	250	231	207	220	386	364	375
13	198	174	185	264	245	255	234	202	220	379	333	353
14	206	187	198	273	250	261	250	225	234	358	319	338
15	193	169	175	280	260	269	274	250	264	321	312	316
16	201	171	187	284	267	274	288	271	283	338	311	322
17	203	180	197	285	272	280	303	284	299	359	326	339
18	212	194	205	299	273	289	315	279	298	369	350	358
19	239	210	224	307	294	300	300	272	286	377	356	365
20	252	232	241	315	278	306	313	273	296	380	361	369
21	260	247	253	309	275	294	332	310	321	383	346	373
22	270	251	263	292	241	279	336	322	330	367	331	353
23	274	251	260	272	215	242	336	318	327	354	326	339
24	280	252	265	271	231	253	329	318	326	350	328	337
25	296	257	280	296	265	285	318	243	274	367	343	353
26	300	281	293	324	295	312	288	246	272	373	360	367
27	314	273	300	333	316	325	332	271	299	380	360	369
28	298	206	264	332	264	312	346	171	284	382	367	375
29	208	164	183	264	222	244	320	185	263	381	366	374
30	194	183	188	244	223	234	321	230	280	376	361	368
31	---	---	---	283	244	268	318	288	306	---	---	---
Month	337	164	249	333	142	247	346	171	284	386	241	341

01454700 LEHIGH RIVER AT GLENDON, PA—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	7.8	7.8	7.8	---	---	---	---	---	---	---	---	---
2	7.9	7.7	7.8	---	---	---	---	---	---	---	---	---
3	7.8	7.6	7.7	---	---	---	---	---	---	---	---	---
4	7.8	7.6	7.7	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Max	7.9	7.8	7.8	---	---	---	---	---	---	---	---	---
Min	7.8	7.6	7.7	---	---	---	---	---	---	---	---	---

01454700 LEHIGH RIVER AT GLENDON, PA—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	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	7.8	7.6	7.7
11	---	---	---	---	---	---	---	---	---	7.8	7.6	7.6
12	---	---	---	---	---	---	---	---	---	7.7	7.5	7.6
13	---	---	---	---	---	---	---	---	---	7.8	7.6	7.7
14	---	---	---	---	---	---	---	---	---	7.8	7.6	7.8
15	---	---	---	---	---	---	---	---	---	7.8	7.7	7.8
16	---	---	---	---	---	---	---	---	---	7.8	7.7	7.8
17	---	---	---	---	---	---	---	---	---	7.9	7.7	7.8
18	---	---	---	---	---	---	---	---	---	7.8	7.7	7.7
19	---	---	---	---	---	---	---	---	---	7.7	7.6	7.6
20	---	---	---	---	---	---	---	---	---	7.7	7.6	7.7
21	---	---	---	---	---	---	---	---	---	7.7	7.6	7.7
22	---	---	---	---	---	---	---	---	---	7.7	7.6	7.7
23	---	---	---	---	---	---	---	---	---	7.7	7.6	7.6
24	---	---	---	---	---	---	---	---	---	7.6	7.5	7.6
25	---	---	---	---	---	---	---	---	---	7.7	7.6	7.6
26	---	---	---	---	---	---	---	---	---	7.7	7.6	7.6
27	---	---	---	---	---	---	---	---	---	7.7	7.6	7.6
28	---	---	---	---	---	---	---	---	---	7.7	7.6	7.6
29	---	---	---	---	---	---	---	---	---	7.7	7.6	7.6
30	---	---	---	---	---	---	---	---	---	7.7	7.6	7.6
31	---	---	---	---	---	---	---	---	---	7.7	7.6	7.6
Max	---	---	---	---	---	---	---	---	---	7.9	7.7	7.8
Min	---	---	---	---	---	---	---	---	---	7.6	7.5	7.6

01454700 LEHIGH RIVER AT GLENDON, PA—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	7.6	7.6	8.0	7.9	7.9	8.0	7.8	7.9
2	7.7	7.4	7.6	7.6	7.5	7.5	8.0	7.9	7.9	7.9	7.8	7.8
3	7.7	7.5	7.6	7.5	7.4	7.5	8.0	7.9	8.0	7.9	7.7	7.8
4	7.7	7.5	7.6	7.5	7.4	7.5	8.0	7.9	7.9	8.0	7.8	7.9
5	7.7	7.5	7.6	7.6	7.5	7.5	8.0	7.9	7.9	8.0	7.9	8.0
6	7.8	7.5	7.7	7.7	7.5	7.6	8.0	7.9	7.9	8.1	8.0	8.0
7	7.8	7.6	7.7	7.7	7.6	7.7	8.0	7.9	7.9	8.2	8.0	8.1
8	7.7	7.6	7.6	7.8	7.7	7.7	8.0	7.9	7.9	8.2	8.1	8.2
9	7.7	7.6	7.7	7.8	7.7	7.7	7.9	7.8	7.8	8.3	8.1	8.1
10	7.7	7.6	7.6	7.8	7.7	7.8	7.8	7.6	7.6	8.2	8.0	8.1
11	7.6	7.4	7.5	7.9	7.8	7.8	7.7	7.6	7.6	8.2	8.0	8.1
12	7.4	7.3	7.4	7.9	7.8	7.8	7.7	7.6	7.7	8.2	8.0	8.1
13	7.6	7.4	7.4	7.8	7.8	7.8	7.8	7.6	7.7	8.2	8.0	8.1
14	7.5	7.5	7.5	7.9	7.8	7.8	7.9	7.7	7.8	8.2	8.0	8.1
15	7.5	7.4	7.4	7.9	7.8	7.9	7.9	7.8	7.9	8.2	8.0	8.1
16	7.5	7.4	7.4	8.0	7.8	7.9	7.9	7.8	7.9	8.2	8.0	8.2
17	7.6	7.5	7.5	8.0	7.9	7.9	8.0	7.9	7.9	8.2	8.0	8.1
18	7.6	7.4	7.5	8.0	7.8	7.9	8.0	7.8	7.9	8.1	8.0	8.0
19	7.7	7.5	7.6	8.0	7.8	7.9	7.9	7.9	7.9	8.5	8.0	8.2
20	7.7	7.6	7.6	8.0	7.8	7.9	8.0	7.8	7.9	8.5	8.2	8.3
21	7.8	7.6	7.7	8.1	7.8	7.8	8.0	7.9	8.0	8.6	8.2	8.3
22	7.8	7.7	7.7	8.0	7.8	7.9	8.0	7.8	7.9	8.4	8.2	8.3
23	7.8	7.7	7.7	8.0	7.7	7.7	8.0	7.9	7.9	8.4	8.2	8.3
24	7.8	7.7	7.8	7.8	7.6	7.7	8.0	7.9	8.0	8.5	8.2	8.3
25	7.8	7.6	7.7	7.9	7.8	7.9	8.0	7.7	7.9	8.6	8.2	8.3
26	7.8	7.7	7.8	8.1	7.9	8.0	8.0	7.7	7.9	8.7	8.2	8.4
27	7.9	7.7	7.8	8.1	8.0	8.0	8.1	7.8	8.0	8.6	8.2	8.3
28	8.0	7.6	7.7	8.1	7.9	8.0	8.0	7.6	7.9	8.7	8.2	8.4
29	7.6	7.4	7.4	8.0	7.8	7.9	7.9	7.6	7.8	8.6	8.2	8.4
30	7.6	7.5	7.5	7.9	7.8	7.8	7.9	7.7	7.8	8.7	8.2	8.4
31	---	---	---	8.0	7.9	7.9	8.0	7.7	7.9	---	---	---
Max	8.0	7.7	7.8	8.1	8.0	8.0	8.1	7.9	8.0	8.7	8.2	8.4
Min	7.4	7.3	7.4	7.5	7.4	7.5	7.7	7.6	7.6	7.9	7.7	7.8

01454700 LEHIGH RIVER AT GLENDON, PA—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		
1	15.8	14.9	15.4	---	---	---	---	---	---	---	---	---
2	16.0	15.2	15.6	---	---	---	---	---	---	---	---	---
3	15.8	15.6	15.7	---	---	---	---	---	---	---	---	---
4	16.2	15.7	15.9	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	13.6	12.9	13.3	---	---	---	---	---	---	---	---	---
12	13.5	12.3	12.8	---	---	---	---	---	---	---	---	---
13	12.3	11.3	11.6	---	---	---	---	---	---	---	---	---
14	11.8	11.4	11.6	---	---	---	---	---	---	---	---	---
15	12.5	11.7	12.1	---	---	---	---	---	---	---	---	---
16	13.1	12.4	12.7	---	---	---	---	---	---	---	---	---
17	12.9	12.4	12.7	---	---	---	---	---	---	---	---	---
18	13.2	12.5	12.8	---	---	---	---	---	---	---	---	---
19	14.5	13.0	13.9	---	---	---	---	---	---	---	---	---
20	14.4	13.8	14.1	---	---	---	---	---	---	---	---	---
21	13.8	12.5	13.0	---	---	---	---	---	---	---	---	---
22	12.5	11.8	12.2	---	---	---	---	---	---	---	---	---
23	12.3	12.0	12.2	---	---	---	---	---	---	---	---	---
24	13.4	12.2	12.7	---	---	---	---	---	---	---	---	---
25	14.0	13.4	13.8	---	---	---	---	---	---	---	---	---
26	13.9	13.8	13.8	---	---	---	---	---	---	---	---	---
27	14.2	13.8	14.0	---	---	---	---	---	---	---	---	---
28	14.2	13.4	13.8	---	---	---	---	---	---	---	---	---
29	13.4	12.6	12.8	---	---	---	---	---	---	---	---	---
30	12.6	11.2	12.0	---	---	---	---	---	---	---	---	---
31	11.2	10.2	10.5	---	---	---	---	---	---	---	---	---
Month	16.2	10.2	13.2	---	---	---	---	---	---	---	---	---

01454700 LEHIGH RIVER AT GLENDON, PA—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		
1	---	---	---	---	---	---	8.4	7.7	8.0	15.6	13.3	14.4
2	---	---	---	---	---	---	8.2	7.0	7.6	16.4	14.3	15.4
3	---	---	---	---	---	---	7.9	6.5	7.2	16.7	15.2	16.1
4	---	---	---	---	---	---	7.6	6.0	6.8	17.0	15.3	16.3
5	---	---	---	---	---	---	9.2	6.9	8.0	16.9	15.4	16.3
6	---	---	---	---	---	---	9.9	8.3	9.1	16.8	15.4	16.3
7	---	---	---	---	---	---	10.9	9.1	9.9	17.6	15.8	16.7
8	---	---	---	---	---	---	12.8	10.4	11.4	17.6	16.6	17.2
9	---	---	---	---	---	---	15.0	12.6	13.6	17.2	16.4	16.9
10	---	---	---	---	---	---	16.7	14.8	15.5	17.7	16.4	17.1
11	---	---	---	---	---	---	16.8	15.3	16.1	17.7	16.8	17.2
12	---	---	---	---	---	---	15.3	10.9	12.9	17.3	16.4	16.9
13	---	---	---	---	---	---	10.9	9.9	10.4	16.7	14.7	15.3
14	---	---	---	---	---	---	12.2	10.2	11.0	14.7	13.3	14.0
15	---	---	---	---	---	---	12.2	11.2	11.8	14.9	13.2	14.0
16	---	---	---	---	---	---	12.7	11.3	11.9	16.7	14.7	15.5
17	---	---	---	---	---	---	14.0	12.3	13.1	17.8	16.1	16.9
18	---	---	---	---	---	---	14.1	13.2	13.6	17.8	16.9	17.2
19	---	---	---	---	---	---	14.1	13.0	13.5	16.9	15.9	16.2
20	---	---	---	---	---	---	14.2	12.6	13.6	16.7	15.5	16.0
21	---	---	---	---	---	---	12.6	11.1	11.6	19.4	16.7	17.8
22	---	---	---	---	---	---	11.9	10.4	11.1	21.3	19.4	20.3
23	---	---	---	---	---	---	11.7	10.8	11.1	21.8	21.0	21.4
24	---	---	---	---	---	---	13.2	10.5	11.6	21.3	17.9	19.8
25	---	---	---	---	---	---	14.6	12.6	13.5	17.9	15.4	16.2
26	---	---	---	---	---	---	14.6	12.9	13.8	15.5	13.9	14.9
27	---	---	---	---	---	---	14.7	12.7	13.7	16.4	14.5	15.4
28	---	---	---	---	---	---	15.0	13.2	14.2	16.7	15.6	16.1
29	---	---	---	---	---	---	15.0	13.4	13.9	17.5	15.7	16.4
30	---	---	---	---	---	---	14.4	12.9	13.5	20.2	17.5	18.6
31	---	---	---	---	---	---	---	---	---	22.2	20.2	21.0
Month	---	---	---	---	---	---	16.8	6.0	11.8	22.2	13.2	16.8

01454700 LEHIGH RIVER AT GLENDON, PA—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	23.4	22.2	22.7	21.2	20.6	20.9	21.6	20.6	21.0	23.5	22.1	22.7
2	23.8	23.0	23.4	20.7	19.2	20.1	21.6	20.3	20.8	23.1	22.1	22.5
3	23.7	22.8	23.3	19.6	18.4	18.9	21.6	20.6	21.1	22.5	21.8	22.1
4	22.8	21.4	22.1	20.2	18.8	19.4	21.4	20.2	20.8	22.0	20.7	21.4
5	22.1	20.4	21.2	21.3	19.8	20.4	21.5	20.3	21.1	21.7	20.2	20.7
6	20.9	19.0	20.2	23.5	20.8	22.0	21.5	20.9	21.2	20.4	19.1	19.6
7	19.1	17.5	18.5	24.6	22.9	23.7	21.6	20.8	21.2	19.4	18.6	18.9
8	17.9	17.1	17.5	24.3	23.0	23.6	20.9	20.5	20.7	19.3	18.8	19.0
9	19.7	17.2	18.3	23.6	22.7	23.0	22.5	20.7	21.4	19.1	18.6	18.8
10	19.7	18.8	19.0	22.8	21.7	22.3	22.4	21.6	21.9	20.2	18.8	19.4
11	18.9	18.2	18.5	22.9	21.8	22.4	21.7	20.8	21.2	21.8	19.6	20.7
12	18.4	17.2	17.9	22.9	21.6	22.0	22.2	20.8	21.4	22.5	21.2	22.0
13	18.3	17.6	18.0	21.8	21.0	21.3	21.9	21.1	21.5	22.2	21.3	21.8
14	17.6	16.6	17.1	23.2	21.4	22.1	21.3	20.1	20.6	21.3	18.8	19.9
15	18.2	16.7	17.4	24.9	22.8	23.7	20.2	18.7	19.5	18.8	17.2	17.7
16	18.6	17.5	18.0	26.0	24.1	25.0	20.1	18.4	19.3	17.4	16.7	17.1
17	19.0	17.6	18.3	26.2	24.8	25.6	20.4	18.9	19.7	17.2	16.0	16.4
18	19.4	18.5	19.0	26.7	25.6	26.1	20.7	19.5	20.0	17.1	15.9	16.3
19	19.5	17.9	18.6	27.0	26.3	26.6	19.8	19.0	19.4	17.5	15.9	16.5
20	20.3	18.4	19.3	27.2	26.3	26.8	20.7	19.3	19.9	18.1	16.2	17.0
21	21.0	19.0	20.0	26.7	25.5	26.2	21.9	20.6	21.1	18.5	16.9	17.6
22	21.6	19.6	20.6	26.4	25.1	25.6	22.2	21.7	22.0	18.4	17.6	18.0
23	22.7	20.5	21.6	25.4	23.6	24.4	22.0	21.1	21.6	17.8	16.6	17.2
24	23.5	21.6	22.6	24.4	23.4	23.8	21.2	20.3	20.8	17.2	15.8	16.4
25	24.1	22.4	23.2	23.5	21.3	22.0	21.3	19.9	20.7	17.1	15.6	16.1
26	24.1	22.8	23.4	21.7	20.6	21.2	21.0	19.9	20.5	17.0	15.6	16.1
27	23.7	22.8	23.2	22.1	21.6	21.8	22.0	20.7	21.1	17.7	15.9	16.6
28	23.7	22.3	22.9	22.6	21.7	22.1	21.9	21.0	21.5	18.2	16.3	17.0
29	22.6	21.4	21.8	22.6	21.3	22.0	21.7	20.9	21.2	18.1	16.5	17.2
30	21.9	21.1	21.4	22.4	21.0	21.7	21.9	20.9	21.4	17.9	16.3	16.9
31	---	---	---	22.1	20.6	21.2	22.6	21.2	21.8	---	---	---
Month	24.1	16.6	20.3	27.2	18.4	22.8	22.6	18.4	20.9	23.5	15.6	18.7

01454700 LEHIGH RIVER AT GLENDON, PA—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	10.0	9.5	9.7	---	---	---	---	---	---	---	---	---
2	10.0	9.4	9.7	---	---	---	---	---	---	---	---	---
3	9.9	9.5	9.7	---	---	---	---	---	---	---	---	---
4	9.9	9.8	9.9	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	10.6	10.1	10.4	---	---	---	---	---	---	---	---	---
12	10.8	10.2	10.5	---	---	---	---	---	---	---	---	---
13	11.2	10.6	11.0	---	---	---	---	---	---	---	---	---
14	11.2	10.3	10.9	---	---	---	---	---	---	---	---	---
15	10.8	10.3	10.6	---	---	---	---	---	---	---	---	---
16	10.6	10.1	10.4	---	---	---	---	---	---	---	---	---
17	10.8	10.2	10.5	---	---	---	---	---	---	---	---	---
18	10.9	10.2	10.5	---	---	---	---	---	---	---	---	---
19	10.6	10.0	10.2	---	---	---	---	---	---	---	---	---
20	10.3	10.0	10.1	---	---	---	---	---	---	---	---	---
21	10.8	10.3	10.5	---	---	---	---	---	---	---	---	---
22	11.0	10.7	10.8	---	---	---	---	---	---	---	---	---
23	10.9	10.8	10.8	---	---	---	---	---	---	---	---	---
24	10.8	10.6	10.7	---	---	---	---	---	---	---	---	---
25	10.6	10.3	10.4	---	---	---	---	---	---	---	---	---
26	10.5	10.4	10.4	---	---	---	---	---	---	---	---	---
27	10.4	10.2	10.3	---	---	---	---	---	---	---	---	---
28	10.3	10.0	10.2	---	---	---	---	---	---	---	---	---
29	10.3	10.0	10.2	---	---	---	---	---	---	---	---	---
30	10.7	10.0	10.4	---	---	---	---	---	---	---	---	---
31	11.2	10.7	11.0	---	---	---	---	---	---	---	---	---
Month	11.2	9.4	10.4	---	---	---	---	---	---	---	---	---

01454700 LEHIGH RIVER AT GLENDON, PA—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	---	---	---	---	---	---	12.8	11.8	12.4	11.4	10.6	10.9
2	---	---	---	---	---	---	13.1	12.1	12.7	11.2	10.0	10.5
3	---	---	---	---	---	---	13.4	12.6	13.0	11.0	9.8	10.2
4	---	---	---	---	---	---	13.7	13.0	13.3	10.6	9.7	10.1
5	---	---	---	---	---	---	13.4	12.6	13.0	10.6	9.8	10.1
6	---	---	---	---	---	---	13.0	12.0	12.5	10.7	9.7	10.1
7	---	---	---	---	---	---	12.8	11.9	12.3	10.4	9.5	9.9
8	---	---	---	---	---	---	12.3	11.3	11.8	9.9	9.0	9.5
9	---	---	---	---	---	---	11.6	10.4	11.1	9.9	9.0	9.5
10	---	---	---	---	---	---	10.8	9.3	10.2	10.2	9.7	9.9
11	---	---	---	---	---	---	10.2	8.8	9.2	9.8	9.2	9.5
12	---	---	---	---	---	---	10.7	9.4	10.0	9.7	9.1	9.4
13	---	---	---	---	---	---	11.7	10.7	11.2	10.4	9.5	10
14	---	---	---	---	---	---	11.7	11.2	11.5	10.8	10.0	10.4
15	---	---	---	---	---	---	11.7	11.0	11.4	10.4	9.8	10.2
16	---	---	---	---	---	---	11.7	11.1	11.4	10.1	9.4	9.8
17	---	---	---	---	---	---	11.6	10.8	11.2	10.0	9.3	9.6
18	---	---	---	---	---	---	11.1	10.5	10.7	9.7	9.2	9.4
19	---	---	---	---	---	---	11.2	10.4	10.7	9.8	9.4	9.6
20	---	---	---	---	---	---	10.9	9.7	10.2	9.9	9.3	9.7
21	---	---	---	---	---	---	11.8	10.6	11.2	9.5	8.5	9.2
22	---	---	---	---	---	---	12.1	11.4	11.8	8.9	7.9	8.5
23	---	---	---	---	---	---	12.2	11.3	11.8	8.4	7.7	8.0
24	---	---	---	---	---	---	12.0	11.4	11.7	8.6	7.7	8.3
25	---	---	---	---	---	---	11.5	10.7	11.1	10.0	8.6	9.5
26	---	---	---	---	---	---	11.4	10.6	11.0	10.4	9.8	10.1
27	---	---	---	---	---	---	11.4	10.8	11.0	10.2	9.3	9.9
28	---	---	---	---	---	---	11.2	10.6	10.9	9.6	9.2	9.4
29	---	---	---	---	---	---	10.8	10.3	10.6	9.8	9.2	9.5
30	---	---	---	---	---	---	11.4	10.5	10.9	9.4	8.5	9.1
31	---	---	---	---	---	---	---	---	---	8.9	8.0	8.5
Month	---	---	---	---	---	---	13.7	8.8	11.4	11.4	7.7	9.6

01454700 LEHIGH RIVER AT GLENDON, PA—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	7.3	8.0	8.8	8.2	8.5	8.8	8.2	8.6	8.5	8.1	8.4
2	8.5	7.2	7.8	9.0	8.4	8.7	8.8	8.3	8.6	8.5	8.2	8.3
3	8.3	7.3	7.8	9.4	8.9	9.2	8.8	8.2	8.5	8.5	8.2	8.4
4	8.7	7.6	8.0	9.3	8.9	9.2	9.0	8.4	8.7	8.9	8.4	8.6
5	8.7	7.6	8.1	9.1	8.6	8.9	8.9	8.3	8.6	9.0	8.5	8.8
6	8.7	7.8	8.2	8.8	8.2	8.5	9.0	8.2	8.5	9.4	8.7	9.0
7	9.3	8.4	9.0	8.4	7.9	8.2	8.8	8.2	8.4	9.6	8.9	9.2
8	9.6	9.2	9.4	8.3	8.1	8.2	8.9	8.4	8.6	9.5	8.8	9.1
9	9.6	9.3	9.5	8.4	8.0	8.2	8.8	8.3	8.6	9.6	8.8	9.1
10	9.3	9.0	9.2	8.5	8.2	8.3	8.6	8.3	8.4	9.8	8.3	8.9
11	9.3	9.0	9.2	8.6	8.2	8.3	8.8	8.6	8.7	9.4	7.9	8.5
12	9.6	9.2	9.4	8.6	8.2	8.5	8.8	8.5	8.6	8.7	7.2	8.1
13	9.4	9.1	9.3	8.8	8.4	8.6	8.7	8.4	8.5	8.8	8.1	8.4
14	9.7	9.2	9.5	8.7	8.2	8.5	8.9	8.5	8.7	9.3	8.3	8.8
15	9.8	9.6	9.7	8.3	7.8	8.2	9.3	8.9	9.1	9.9	8.9	9.4
16	9.6	9.4	9.4	8.0	7.4	7.8	9.3	9.0	9.2	9.9	9.1	9.4
17	9.5	9.2	9.4	8.1	7.5	7.8	9.3	8.9	9.1	10.2	9.2	9.5
18	9.3	8.9	9.1	8.0	7.3	7.7	9.2	8.8	9.0	10.3	9.2	9.5
19	9.3	9.1	9.2	8.0	7.3	7.6	9.3	8.9	9.1	10.3	9.0	9.5
20	9.2	8.8	9.1	8.0	7.3	7.5	9.2	8.7	9.0	10.3	8.8	9.4
21	9.0	8.4	8.8	7.9	7.3	7.5	9.2	8.4	8.8	10.3	8.2	9.2
22	8.9	8.3	8.7	8.0	7.3	7.7	8.9	8.3	8.5	9.9	8.6	9.2
23	8.9	7.8	8.3	8.0	7.6	7.7	8.9	8.4	8.6	10.2	8.9	9.4
24	8.5	7.8	8.3	8.2	7.7	8.0	9.3	8.6	8.9	10.5	8.9	9.5
25	8.2	7.5	7.8	8.6	7.9	8.3	9.2	8.6	9.0	10.9	9.1	9.6
26	8.6	7.6	7.8	9.0	8.3	8.6	9.2	8.6	8.9	10.7	8.9	9.7
27	8.2	7.4	7.9	8.8	8.0	8.4	9.2	8.2	8.7	10.8	8.9	9.6
28	8.3	7.7	8.1	8.7	8.1	8.4	8.6	8.1	8.3	11.1	9.0	9.6
29	8.4	7.8	8.2	8.7	8.3	8.5	8.5	8.0	8.2	10.7	8.9	9.5
30	8.6	8.2	8.3	8.8	8.5	8.7	8.6	8.1	8.3	10.8	9.0	9.6
31	---	---	---	8.8	8.4	8.6	8.4	8.2	8.3	---	---	---
Month	9.8	7.2	8.7	9.4	7.3	8.3	9.3	8.0	8.7	11.1	7.2	9.1