



Water-Data Report 2011

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN

Lake Michigan Basin

LOCATION.--Lat 41°38'57", long 87°28'07" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.20, T.37 N., R.9 W., Lake County, IN, Hydrologic Unit 04040001, on left bank at the site of the former Canal Street drawbridge, 3,200 ft east of U.S. Highway 20, 3,500 ft north of U.S. Highway 12, 4,300 ft south of 129th Street, and 1,000 ft west of the crossing of the centerlines of Cline Avenue and the Indiana Harbor Canal.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1991 to current year.

REVISED RECORDS.--WDR IN-96-1: Instantaneous peak flow date.

GAGE.--Water-stage recorder, Acoustic Doppler Velocity Meter. Datum of gage is 570.20 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 22, 2000, gage was located 0.8 mi downstream.

REMARKS.--Records poor. Positive discharges indicate flow towards Lake Michigan; negative discharges indicate flow away from Lake Michigan.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[*e*, estimated]

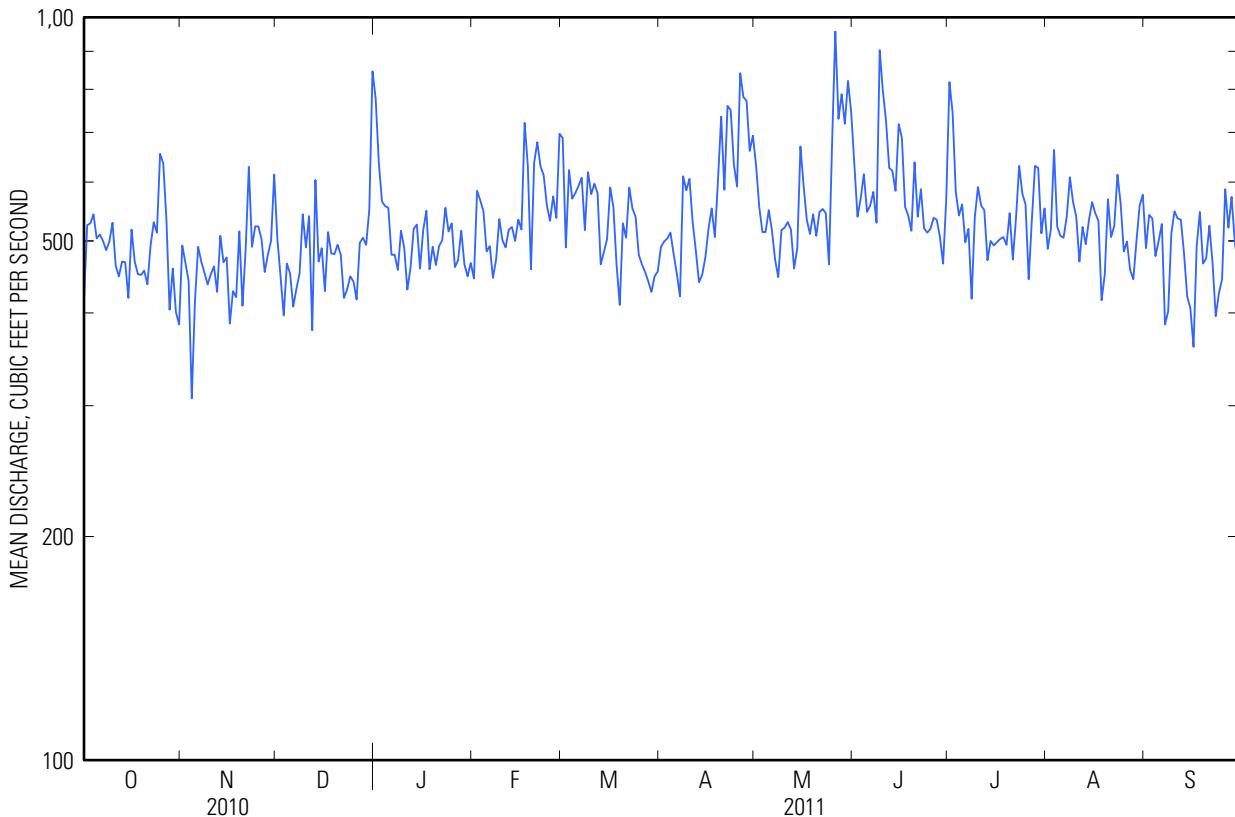
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	416	493	503	778	445	688	491	632	635	818	488	489
2	525	467	448	637	584	490	e499	556	539	744	518	542
3	528	442	397	565	567	623	e504	514	570	582	663	536
4	543	307	466	557	548	570	e513	514	615	541	523	477
5	504	415	452	554	484	580	e480	550	547	560	508	500
6	510	491	408	479	492	593	452	517	558	498	505	527
7	500	469	431	479	446	608	421	472	582	519	539	386
8	486	453	452	457	472	517	611	447	529	418	609	402
9	499	437	543	516	535	619	585	517	903	538	564	512
10	529	451	490	490	501	578	606	521	796	591	539	548
11	463	462	540	430	490	597	530	530	725	558	469	536
12	448	427	379	460	518	580	485	518	627	550	522	534
13	469	508	604	519	522	465	440	459	621	471	495	481
14	468	468	469	526	500	483	450	489	584	500	533	421
15	419	475	489	459	534	503	475	670	718	493	564	406
16	518	387	428	517	518	590	519	593	688	498	545	360
17	469	428	514	549	721	555	553	534	556	503	532	493
18	451	420	481	458	631	464	506	511	541	506	416	547
19	450	515	480	491	458	410	605	543	516	494	451	466
20	456	409	494	464	637	528	735	508	638	545	569	474
21	437	488	479	492	679	505	586	547	539	472	506	524
22	493	629	419	501	630	590	760	552	587	537	524	467
23	530	491	430	554	613	553	750	545	520	631	614	396
24	513	523	448	515	559	539	634	465	513	579	562	425
25	655	523	441	528	532	479	592	681	519	560	484	444
26	636	503	417	461	574	465	841	957	537	444	499	587
27	534	454	497	471	537	454	781	730	534	534	457	521
28	404	479	505	516	697	441	772	788	506	631	444	573
29	459	500	494	465	---	427	661	719	466	627	500	500
30	401	614	551	448	---	448	693	821	570	512	558	460
31	386	---	846	467	---	455	---	746	---	553	577	---
Total	15,099	14,128	14,995	15,803	15,424	16,397	17,530	18,146	17,779	17,007	16,277	14,534
Mean	487	471	484	510	551	529	584	585	593	549	525	484
Max	655	629	846	778	721	688	841	957	903	818	663	587
Min	386	307	379	430	445	410	421	447	466	418	416	360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	569	568	598	619	599	607	593	594	561	550	568	562
Max	752	916	1,094	963	843	1,111	922	1,016	724	761	759	778
(WY)	(1997)	(1997)	(1997)	(1997)	(1997)	(1999)	(1999)	(1999)	(1996)	(1996)	(1996)	(2008)
Min	418	407	429	456	429	481	474	483	368	448	467	416
(WY)	(1998)	(1998)	(1998)	(2010)	(2010)	(2003)	(2004)	(2007)	(2007)	(2007)	(1998)	(1997)

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011		Water Years 1994 - 2011	
Annual total	185,546	193,119			
Annual mean	508	529		582	
Highest annual mean				727	1999
Lowest annual mean				462	1998
Highest daily mean	949	Jul 24	957	May 26	2,120 Mar 21, 1999
Lowest daily mean	307	Nov 4	307	Nov 4	-641 Oct 21, 1993
Annual seven-day minimum	403	Jan 14	416	Oct 30	-180 Oct 15, 1993
Maximum peak flow			8,980	Jun 9	9,580 Oct 4, 2006
Maximum peak stage			11.04	Dec 12	14.41 Mar 9, 1998
10 percent exceeds	609		634		738
50 percent exceeds	499		515		554
90 percent exceeds	416		441		438



04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1996 to September 2011.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: March 17, 2011 to September 30, 2011.

SPECIFIC CONDUCTANCE: March 17, 2011 to September 30, 2011.

pH: March 17, 2011 to September 30, 2011.

DISSOLVED OXYGEN: March 17, 2011 to September 30, 2011.

TURBIDITY: March 17, 2011 to September 30, 2011.

INSTRUMENTATION.--A YSI Model 6920V2-2 continuous water-quality sonde is installed and reports water-quality data in 15-minute intervals. The YSI sonde is equipped with the following probes:

Temperature/Conductance (YSI 6560), pH (YSI 6561), Turbidity (YSI 6136), Dissolved Oxygen (YSI 6150 ROX),

An ISCO 6712FR refrigerated autosampler is installed. The intake line is deployed near the end of the sonde tube.

REMARKS.--Automated samplers, water quality multi sensor probes, and gage house and stage equipment were deployed at 30 of the Great Lakes National Monitoring Network sites. These sites are being monitored to:-provide baseline information,-provide support for measuring restoration progress,-demonstrate the ability to reduce monitoring costs through the use of real-time sensors.

Water samples collected at the 30 tributary monitoring sites include suspended sediment; nutrients (incl. nitrogen, nitrite, nitrite + nitrate, total nitrogen, ortho-phosphorus, and total phosphorus); chloride, and bacteria. One sample per storm event is analyzed for major ions. At each site, monthly base flow samples are being collected, plus up to eight storms, with 6 samples submitted per storm (60 environmental samples per site). Samples will be used to develop statistical relations between continuously measured parameters and lab analyzed parameters. In-situ water-quality sensors deployed at each site measure turbidity, temperature, conductivity, dissolved oxygen, and pH every 15 minutes.

During this year, water-quality samples were also collected at Burns Ditch at Portage, IN (04095090) for the same project. These data can be obtained electronically at <http://in.water.usgs.gov>

Temperature record is categorized as excellent for the period of record. Specific Conductivity at 25°C record is categorized as excellent from March 17 to May 22, good from May 23 to June 22, excellent from June 23 to September 6, good from September 7 to September 21, and excellent from September 22 through the end of the water year. pH record is categorized as excellent from March 17 to March 30, good from March 31 to April 12, excellent from April 13 to April 28, good from April 29 to May 22. pH record is missing due to equipment failure May 23 to May 24. pH record is categorized as good from May 25 to June 7, and excellent from June 8 through the end of the water year. Dissolved oxygen record is categorized as good from March 17 to April 13, excellent from April 14 to April 28, good from April 29 to May 11, excellent from May 12 to May 23, good from May 24 to June 7, excellent from June 8 to August 21 and good from August 22 through the end of the water year. Turbidity record is categorized as fair from March 17 through the end of the water year.

Daily values were not estimated for partial days of data due to the constant variation in flow direction, backwater conditions and water chemistry due to the sites proximal location to Lake Michigan.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Daily mean temperature ranged from 11.6°C on March 27, 2011 to 29.5°C on July 21, 2011.

SPECIFIC CONDUCTANCE: Daily mean specific conductance ranged from 511 µS/cm on September 29, 2011 to 709 µS/cm recorded May 5 and May 6, 2011.

pH: Daily median pH ranged from 7.3 standard units on May 11, 2011 and July 24, 2011 to 7.8 on March 31 and April 1, 2011.

DISSOLVED OXYGEN: Daily mean concentration of dissolved oxygen ranged from 2.9 mg/L on July 24, 2011 to 9.1 mg/L on March 27 and March 28, 2011.

TURBIDITY: Daily mean turbidity ranged from 4.0 FNU occurring on August 9, 2011 to a 33 FNU on March 20, 2011.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Minimum recorded 10.9°C on March 27, 2011 at 10:45 to a maximum recorded 30.2°C on July 21 at 22:00 and July 22, 2011 at 02:00.

SPECIFIC CONDUCTANCE: Minimum recorded 472 µS/cm occurring on July 2, 2011 at 18:00 to a maximum recorded 723 µS/cm on May 6, 2011 at 10:00.

pH: Minimum recorded 7.2 occurring on May 11 at 12:00 and May 12 at 06:45 to a maximum 7.9 occurring four times (March 31 at 18:45m April 1 at 00:00, July 17 at 20:15, and July 18 at 19:15).

DISSOLVED OXYGEN: Minimum recorded 2.1 mg/L occurring on July 24, 2011 at 14:30 to a maximum recorded 9.8 mg/L on March 27 at 21:45, March 28 at 00:00 and March 30 at 21:30.

TURBIDITY: Minimum recorded 1.7 FNU occurring July 16, 2011 at 12:15 to a maximum recorded 190 FNU occurring on April 26m 2011 at 10:15.

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	---	---	---	---	---	---	13.9	12.5	12.9	17.3	16.1	16.7
2	---	---	---	---	---	---	13.5	12.2	12.7	17.2	15.9	16.5
3	---	---	---	---	---	---	14.0	12.4	13.0	16.8	15.2	16.1
4	---	---	---	---	---	---	14.2	13.4	13.8	17.6	15.2	16.1
5	---	---	---	---	---	---	13.8	12.4	13.0	17.6	16.1	16.7
6	---	---	---	---	---	---	13.7	12.5	13.1	17.7	16.3	16.9
7	---	---	---	---	---	---	13.6	12.4	12.9	17.6	16.6	16.9
8	---	---	---	---	---	---	12.9	11.9	12.4	18.6	16.3	17.0
9	---	---	---	---	---	---	15.9	12.7	13.6	18.6	17.1	17.9
10	---	---	---	---	---	---	18.2	15.1	16.1	20.7	17.8	18.7
11	---	---	---	---	---	---	18.1	16.6	17.2	21.5	19.3	20.3
12	---	---	---	---	---	---	17.1	14.8	15.8	21.6	19.9	20.8
13	---	---	---	---	---	---	17.6	14.9	15.9	21.5	19.7	20.5
14	---	---	---	---	---	---	17.5	15.8	16.3	19.7	16.6	17.9
15	---	---	---	---	---	---	16.6	14.7	15.4	16.6	14.6	15.4
16	---	---	---	---	---	---	15.6	14.6	14.9	17.4	14.6	15.4
17	---	---	---	---	---	---	15.2	13.6	14.3	18.4	16.2	17.0
18	---	---	---	14.1	12.7	13.2	15.1	13.7	14.2	18.5	17.1	17.7
19	---	---	---	13.6	12.0	12.7	14.5	13.3	13.7	19.9	17.8	18.5
20	---	---	---	13.4	11.9	12.5	13.6	12.7	13.1	21.3	18.6	19.5
21	---	---	---	14.2	12.7	13.3	14.5	12.6	13.2	20.5	19.1	19.7
22	---	---	---	14.2	11.9	12.7	---	---	---	20.9	19.4	20.0
23	---	---	---	12.9	11.6	12.2	16.0	13.0	14.2	21.0	19.8	20.4
24	---	---	---	12.7	11.3	11.8	16.4	14.8	15.5	21.0	19.7	20.2
25	---	---	---	12.6	11.4	11.9	16.3	15.0	15.5	20.1	17.9	18.9
26	---	---	---	12.7	11.3	11.9	15.9	14.8	15.3	18.1	14.8	16.2
27	---	---	---	12.6	10.9	11.6	---	---	---	17.3	14.6	15.6
28	---	---	---	12.9	11.1	11.8	---	---	---	18.0	17.1	17.4
29	---	---	---	13.3	11.6	12.2	16.3	13.7	14.6	18.0	17.3	17.6
30	---	---	---	14.0	11.9	12.7	16.9	14.9	15.7	20.7	17.5	18.7
31	---	---	---	14.0	12.4	13.1	---	---	---	21.8	19.9	20.7
Month	---	---	---	---	---	---	---	---	---	21.8	14.6	18.0

Water-Data Report 2011

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**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	21.6	19.7	20.8	24.9	22.8	23.8	29.2	28.5	29.0	29.7	27.7	28.5
2	21.3	19.3	20.3	24.2	22.3	23.1	29.1	28.2	28.7	29.6	28.6	29.1
3	21.5	19.6	20.4	23.9	22.3	23.1	28.8	27.7	28.1	29.5	28.6	29.0
4	23.3	21.0	21.8	23.9	22.2	23.0	27.7	26.5	27.2	28.8	27.4	27.9
5	22.9	20.9	21.9	25.6	23.3	24.1	29.2	27.6	28.1	27.4	25.2	26.3
6	22.6	20.8	21.7	25.8	24.7	25.3	29.4	28.8	29.1	25.4	24.7	25.0
7	24.3	21.9	22.9	25.7	24.6	25.1	29.1	28.2	28.6	25.5	24.9	25.2
8	---	---	---	25.2	23.7	24.5	28.5	27.7	28.1	25.2	24.5	24.8
9	23.9	19.7	22.1	26.2	24.7	25.3	28.4	27.7	28.1	25.4	24.6	25.0
10	20.3	18.9	19.6	27.8	25.7	26.7	28.3	27.6	28.0	26.2	25.1	25.6
11	20.3	19.6	20.0	27.9	26.6	27.0	28.3	27.3	27.8	27.2	25.6	26.3
12	20.9	19.5	20.1	26.9	25.5	26.2	28.3	27.6	27.9	27.3	26.1	26.7
13	21.9	20.0	20.8	26.2	25.0	25.6	28.2	27.5	27.8	27.1	26.1	26.5
14	22.8	20.9	21.7	26.2	25.1	25.6	27.9	25.8	26.7	26.5	24.5	25.5
15	22.7	21.0	21.7	27.4	25.8	26.5	27.2	25.6	26.1	24.7	23.2	23.7
16	22.0	20.5	21.2	27.8	27.1	27.3	28.3	26.8	27.3	23.6	22.4	22.9
17	22.8	21.1	21.9	28.4	27.2	27.7	28.4	27.6	27.9	24.1	22.9	23.4
18	23.5	22.0	22.6	28.7	27.7	28.2	28.1	27.6	27.8	24.0	23.1	23.4
19	23.7	22.4	23.1	29.0	27.9	28.5	28.0	26.8	27.4	23.6	23.2	23.4
20	23.7	22.8	23.3	29.4	28.3	28.9	27.9	27.4	27.6	24.4	23.1	23.5
21	24.7	23.3	23.8	30.2	29.1	29.5	27.9	26.8	27.5	24.4	23.8	24.1
22	24.7	23.3	24.0	30.2	28.7	29.4	27.8	27.1	27.5	24.1	23.6	23.8
23	23.4	21.7	22.5	28.9	27.6	28.1	27.6	26.7	27.2	23.9	22.8	23.2
24	21.8	20.7	21.1	28.4	27.4	27.9	28.1	26.4	27.1	23.3	22.3	22.7
25	22.1	20.4	21.1	27.9	27.1	27.4	28.1	26.9	27.6	22.7	21.7	22.1
26	23.7	21.6	22.3	28.2	27.1	27.6	28.0	27.0	27.5	22.0	21.4	21.7
27	23.9	22.8	23.3	28.1	27.3	27.7	28.0	27.4	27.7	21.7	21.1	21.3
28	24.4	23.1	23.7	28.2	27.3	27.7	27.8	26.5	27.1	---	---	---
29	24.8	23.0	23.8	27.7	26.8	27.2	27.1	26.2	26.6	21.4	20.7	21.0
30	24.9	23.8	24.3	27.8	26.4	26.9	27.6	26.7	27.1	21.4	19.6	20.4
31	---	---	---	29.2	27.5	28.1	28.5	26.9	27.5	---	---	---
Month	---	---	---	30.2	22.2	26.5	29.4	25.6	27.7	---	---	---

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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4	---	---	---	---	---	---	---	---	---	---	---	---
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24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

Water-Data Report 2011

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	---	---	---	---	---	---	688	645	658	715	696	708
2	---	---	---	---	---	---	689	628	660	714	693	705
3	---	---	---	---	---	---	651	628	640	720	691	704
4	---	---	---	---	---	---	673	637	656	712	697	705
5	---	---	---	---	---	---	654	625	636	713	701	709
6	---	---	---	---	---	---	652	626	637	723	697	709
7	---	---	---	---	---	---	659	637	647	707	672	694
8	---	---	---	---	---	---	687	617	654	697	677	688
9	---	---	---	---	---	---	627	590	603	688	667	678
10	---	---	---	---	---	---	641	607	623	691	673	681
11	---	---	---	---	---	---	643	624	635	686	652	669
12	---	---	---	---	---	---	640	619	629	672	653	662
13	---	---	---	---	---	---	649	628	644	714	645	683
14	---	---	---	---	---	---	655	633	644	646	629	637
15	---	---	---	---	---	---	648	635	641	662	585	634
16	---	---	---	---	---	---	657	629	644	627	573	593
17	---	---	---	---	---	---	656	615	642	677	627	652
18	---	---	---	696	672	683	671	632	650	688	654	674
19	---	---	---	686	645	669	656	596	617	678	661	671
20	---	---	---	675	641	663	640	575	609	682	656	674
21	---	---	---	686	646	667	638	585	615	680	654	669
22	---	---	---	685	623	661	---	---	---	671	653	665
23	---	---	---	641	599	616	620	572	589	675	658	668
24	---	---	---	667	637	647	662	613	641	672	649	662
25	---	---	---	675	662	668	677	658	667	659	599	631
26	---	---	---	679	663	671	681	625	663	625	525	563
27	---	---	---	677	651	665	---	---	---	648	529	582
28	---	---	---	672	648	658	---	---	---	687	640	671
29	---	---	---	665	638	651	698	644	674	698	649	674
30	---	---	---	656	638	648	707	689	697	660	629	643
31	---	---	---	667	648	655	---	---	---	678	642	665
Month	---	---	---	---	---	---	---	---	---	723	525	665

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June				July				August			
1	684	673	679	647	572	616	575	561	569	573	551	561
2	693	677	683	574	472	520	572	551	566	569	555	562
3	696	679	690	591	502	551	595	551	575	561	538	552
4	694	663	681	606	587	599	574	525	541	601	527	576
5	698	616	673	607	593	601	557	530	549	530	506	519
6	675	630	647	615	600	607	576	556	568	525	514	520
7	677	643	663	619	610	616	586	555	571	552	521	537
8	---	---	---	614	603	609	607	542	576	564	547	555
9	678	604	645	617	605	611	548	530	539	616	562	593
10	608	552	579	616	598	609	554	530	538	598	534	565
11	657	602	629	624	598	608	585	554	568	571	558	564
12	679	652	669	624	568	604	600	575	588	574	560	568
13	686	671	681	591	569	582	611	562	596	583	559	571
14	683	657	673	601	587	596	610	567	592	574	553	564
15	690	656	671	606	595	601	569	519	537	573	553	566
16	686	619	653	603	592	598	566	540	559	577	563	571
17	663	625	649	605	587	601	572	556	565	573	561	568
18	669	661	665	600	581	591	597	567	586	570	542	557
19	669	651	661	596	580	590	595	577	588	579	554	568
20	667	648	654	596	563	584	613	557	574	559	533	546
21	673	634	653	592	569	584	618	529	584	549	537	544
22	654	639	647	591	566	577	554	529	542	562	540	548
23	662	634	650	598	576	588	596	548	561	562	546	558
24	653	632	644	582	514	543	604	563	585	578	544	557
25	641	622	634	559	532	546	576	550	563	571	539	551
26	650	621	637	556	535	548	581	564	573	580	532	557
27	630	615	625	564	551	558	577	549	562	567	480	520
28	626	616	621	605	548	577	562	551	558	---	---	---
29	624	607	618	599	544	561	578	560	566	523	498	511
30	613	596	605	570	535	551	572	558	566	551	509	527
31	---	---	---	564	540	554	594	564	574	---	---	---
Month	---	---	---	647	472	583	618	519	567	---	---	---

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04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued**TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

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04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	---	---	---	---	---	---	65	7.9	15	14	7.8	10
2	---	---	---	---	---	---	39	4.5	16	29	8.8	15
3	---	---	---	---	---	---	120	8.1	27	15	7.8	11
4	---	---	---	---	---	---	73	11	29	65	7.1	13
5	---	---	---	---	---	---	22	7.7	12	38	7.6	14
6	---	---	---	---	---	---	28	8.5	13	52	8.1	19
7	---	---	---	---	---	---	27	7.9	14	15	7.0	9.7
8	---	---	---	---	---	---	15	8.1	10	17	7.3	10
9	---	---	---	---	---	---	29	11	15	25	5.6	11
10	---	---	---	---	---	---	49	13	24	110	7.8	17
11	---	---	---	---	---	---	33	10	16	26	5.7	11
12	---	---	---	---	---	---	41	12	22	85	5.7	17
13	---	---	---	---	---	---	55	8.6	16	84	6.0	14
14	---	---	---	---	---	---	47	8.3	17	13	6.1	9.2
15	---	---	---	---	---	---	17	7.7	11	14	4.9	8.0
16	---	---	---	---	---	---	50	8.2	14	8.6	5.2	6.8
17	---	---	---	---	---	---	18	6.8	11	26	6.1	11
18	---	---	---	34	8.5	13	86	6.8	15	49	5.0	11
19	---	---	---	16	8.3	11	67	8.8	21	24	6.1	9.0
20	---	---	---	180	8.7	33	100	9.7	21	15	4.5	7.6
21	---	---	---	63	12	19	39	9.1	15	34	5.4	10
22	---	---	---	55	11	17	---	---	---	31	5.5	11
23	---	---	---	55	12	26	120	11	26	33	8.8	17
24	---	---	---	25	9.4	13	140	11	21	92	6.0	16
25	---	---	---	31	8.3	11	140	11	24	78	7.0	16
26	---	---	---	67	8.7	13	190	9.9	22	28	7.5	12
27	---	---	---	21	8.5	11	---	---	---	37	6.3	13
28	---	---	---	12	8.2	10	---	---	---	56	6.3	15
29	---	---	---	22	7.3	11	11	6.0	8.9	52	7.8	15
30	---	---	---	17	6.8	11	20	7.5	11	55	8.2	16
31	---	---	---	38	8.5	15	---	---	---	120	7.3	15
Month	---	---	---	---	---	---	---	---	---	120	4.5	13

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued**TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				June			July			August		
1	22	6.5	12	44	5.0	13	14	2.7	5.1	91	3.5	7.4
2	18	3.7	8.4	15	3.3	6.2	20	3.1	5.2	35	3.7	6.3
3	11	4.3	6.7	19	2.9	6.6	28	2.9	5.7	23	5.1	10
4	19	3.8	7.6	18	3.7	8.1	7.6	2.6	4.1	64	4.1	12
5	17	4.0	7.1	26	4.7	12	27	2.3	4.6	18	3.6	5.4
6	15	4.2	7.0	24	5.7	11	24	2.2	6.8	16	4.3	6.9
7	13	3.6	6.3	20	3.9	10	36	3.1	6.7	34	5.0	9.1
8	---	---	---	25	3.7	11	38	2.3	5.1	9.6	4.9	6.5
9	56	7.8	20	18	2.8	6.6	7.5	2.3	4.0	19	5.3	7.9
10	24	5.7	11	17	1.9	6.3	9.2	2.3	4.1	26	5.0	7.2
11	19	4.5	8.4	70	3.6	16	17	2.2	4.9	47	6.4	10
12	17	4.2	7.9	16	1.9	5.1	15	3.7	7.7	21	5.7	8.8
13	27	5.1	10	17	2.8	6.5	19	3.2	8.8	59	6.0	11
14	11	3.0	6.0	25	2.8	9.8	7.0	2.8	4.4	16	5.8	9.3
15	55	4.1	9.8	26	1.9	6.6	28	3.5	6.4	29	5.7	11
16	41	4.0	10	30	1.7	5.5	48	3.3	8.2	20	6.1	9.6
17	57	3.7	9.5	12	2.3	5.1	26	3.5	6.3	21	6.1	9.5
18	16	3.5	6.6	110	3.2	8.6	16	3.8	7.3	29	5.6	10
19	12	2.8	5.8	12	3.0	5.3	39	5.1	8.6	41	5.8	14
20	26	4.0	7.1	21	2.8	6.5	24	4.0	9.7	76	6.4	15
21	19	3.9	7.2	12	2.8	5.1	22	2.8	6.9	44	5.1	9.1
22	40	3.6	8.2	14	3.0	6.2	49	2.5	7.9	32	5.6	11
23	40	3.2	7.4	12	2.3	4.6	21	3.5	8.0	33	6.2	9.8
24	8.6	4.3	5.9	9.9	1.9	4.6	19	3.4	7.1	100	6.5	15
25	12	3.3	5.8	32	2.5	5.9	26	3.2	6.4	28	5.2	11
26	8.5	2.6	4.2	39	2.4	8.4	88	4.0	7.3	12	5.5	7.8
27	23	2.7	9.4	33	3.2	6.4	6.8	3.0	4.7	31	5.4	9.4
28	20	2.7	5.7	39	2.9	9.0	8.3	3.3	5.3	---	---	---
29	7.1	2.0	4.4	25	2.7	8.5	12	4.1	6.3	26	6.4	11
30	50	3.2	12	14	2.7	5.1	24	3.2	5.7	17	5.9	9.5
31	---	---	---	32	2.2	8.1	17	3.2	5.0	---	---	---
Month	---	---	---	110	1.7	7.7	88	2.2	6.3	---	---	---

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued**PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued
PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
February				March				April				May
1	---	---	---	---	---	---	7.9	7.7	7.8	7.6	7.5	7.5
2	---	---	---	---	---	---	7.8	7.6	7.7	7.6	7.5	7.5
3	---	---	---	---	---	---	7.7	7.7	7.7	7.6	7.5	7.5
4	---	---	---	---	---	---	7.7	7.7	7.7	7.6	7.5	7.5
5	---	---	---	---	---	---	7.8	7.6	7.7	7.6	7.4	7.4
6	---	---	---	---	---	---	7.7	7.6	7.6	7.5	7.3	7.4
7	---	---	---	---	---	---	7.6	7.5	7.6	7.4	7.3	7.4
8	---	---	---	---	---	---	7.6	7.4	7.5	7.5	7.4	7.4
9	---	---	---	---	---	---	7.5	7.4	7.4	7.6	7.3	7.4
10	---	---	---	---	---	---	7.5	7.4	7.4	7.4	7.3	7.4
11	---	---	---	---	---	---	7.5	7.4	7.4	7.4	7.2	7.3
12	---	---	---	---	---	---	7.5	7.3	7.4	7.7	7.2	7.5
13	---	---	---	---	---	---	7.7	7.3	7.6	7.7	7.4	7.5
14	---	---	---	---	---	---	7.7	7.6	7.6	7.6	7.5	7.5
15	---	---	---	---	---	---	7.8	7.7	7.7	7.6	7.5	7.5
16	---	---	---	---	---	---	7.8	7.7	7.7	7.7	7.4	7.5
17	---	---	---	---	---	---	7.8	7.6	7.7	7.7	7.5	7.6
18	---	---	7.6	7.5	7.5	7.5	7.7	7.6	7.6	7.7	7.5	7.6
19	---	---	7.6	7.5	7.5	7.5	7.7	7.6	7.6	7.6	7.5	7.5
20	---	---	7.6	7.4	7.5	7.5	7.6	7.4	7.5	7.6	7.5	7.5
21	---	---	7.6	7.5	7.5	7.5	7.7	7.5	7.6	7.6	7.5	7.5
22	---	---	7.6	7.4	7.5	7.5	---	---	---	7.6	7.5	7.5
23	---	---	7.5	7.3	7.4	7.4	7.6	7.4	7.5	---	---	---
24	---	---	7.6	7.5	7.5	7.5	7.6	7.5	7.6	---	---	---
25	---	---	7.6	7.5	7.6	7.6	7.6	7.5	7.6	---	---	---
26	---	---	7.6	7.5	7.6	7.6	7.6	7.4	7.5	7.5	7.4	7.5
27	---	---	7.7	7.6	7.6	7.6	---	---	---	7.6	7.4	7.5
28	---	---	7.7	7.6	7.6	7.6	---	---	---	7.6	7.5	7.5
29	---	---	7.6	7.4	7.5	7.5	7.6	7.6	7.6	7.6	7.4	7.5
30	---	---	7.6	7.4	7.5	7.5	7.6	7.5	7.6	7.6	7.4	7.5
31	---	---	7.9	7.3	7.8	7.8	---	---	---	7.6	7.5	7.6
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued**DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued**DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	---	---	---	---	---	---	9.1	7.5	8.3	8.3	7.0	7.6
2	---	---	---	---	---	---	8.8	6.8	7.9	8.2	6.8	7.3
3	---	---	---	---	---	---	8.7	7.6	8.2	8.5	7.2	7.7
4	---	---	---	---	---	---	8.5	7.7	8.0	8.7	7.1	7.7
5	---	---	---	---	---	---	9.2	7.5	8.1	8.6	6.8	7.6
6	---	---	---	---	---	---	8.9	7.7	8.1	8.1	5.8	7.0
7	---	---	---	---	---	---	9.3	7.1	8.2	8.0	6.0	7.0
8	---	---	---	---	---	---	9.3	7.8	8.5	8.5	6.3	6.9
9	---	---	---	---	---	---	8.3	7.6	7.9	8.7	6.6	7.4
10	---	---	---	---	---	---	8.1	6.8	7.6	8.1	6.0	7.1
11	---	---	---	---	---	---	8.0	6.8	7.3	7.9	5.4	6.6
12	---	---	---	---	---	---	8.6	6.2	7.1	8.4	4.9	6.5
13	---	---	---	---	---	---	8.3	6.7	7.4	8.3	4.9	6.3
14	---	---	---	---	---	---	7.9	6.3	7.0	7.0	6.1	6.5
15	---	---	---	---	---	---	8.2	7.5	7.8	8.0	6.6	7.0
16	---	---	---	---	---	---	7.9	7.1	7.4	8.9	6.7	7.5
17	---	---	---	---	---	---	8.5	7.2	7.7	8.8	5.9	7.2
18	---	---	8.4	7.3	7.7	---	8.4	6.9	7.7	8.4	6.2	7.0
19	---	---	9.2	7.7	8.1	---	8.6	7.6	7.9	8.1	5.8	6.8
20	---	---	8.8	6.6	8.0	---	8.1	7.2	7.7	8.2	5.7	6.8
21	---	---	8.6	7.7	8.1	9.1	7.5	8.1	8.0	5.9	6.6	
22	---	---	8.7	7.6	8.0	---	---	---	7.8	5.5	6.5	
23	---	---	8.3	6.6	7.5	8.5	7.5	8.0	7.2	5.6	6.2	
24	---	---	9.1	8.0	8.4	8.5	7.1	7.7	8.2	5.7	6.6	
25	---	---	9.3	8.2	8.7	8.3	6.0	7.2	8.4	5.2	6.7	
26	---	---	9.5	8.4	8.8	7.9	6.5	7.3	6.6	5.5	6.0	
27	---	---	9.8	8.7	9.1	---	---	---	7.6	4.6	5.9	
28	---	---	9.8	8.6	9.1	---	---	---	7.3	5.1	5.9	
29	---	---	9.7	8.2	8.9	8.8	7.3	7.9	6.3	4.5	5.5	
30	---	---	9.8	8.2	8.9	8.5	7.2	7.8	7.6	5.3	6.1	
31	---	---	9.5	8.0	8.6	---	---	---	7.4	5.2	6.2	
Month	---	---	---	---	---	---	---	---	---	8.9	4.5	6.8

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued**DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				June			July			August		
1	8.2	5.0	6.3	6.9	3.9	5.1	6.2	3.4	4.7	5.3	3.4	4.2
2	8.8	5.5	6.7	5.7	3.0	4.2	6.6	3.8	5.1	5.5	3.6	4.3
3	8.6	5.8	7.0	7.2	3.9	4.9	6.0	3.3	4.7	4.9	3.4	4.0
4	8.4	5.5	6.7	7.0	4.2	5.6	6.1	3.5	4.6	5.3	3.0	3.9
5	8.4	5.4	6.4	7.1	4.2	5.5	6.0	3.3	4.4	5.2	4.1	4.8
6	8.9	6.2	7.2	7.0	3.4	5.0	5.4	2.5	3.7	5.8	4.4	5.0
7	8.9	5.8	7.3	6.7	3.6	5.0	5.0	2.4	3.8	5.7	4.3	5.0
8	---	---	---	7.9	3.8	5.3	5.1	2.7	4.0	5.7	4.6	5.1
9	7.2	4.5	5.6	7.5	4.1	5.7	5.1	2.6	3.7	5.3	3.6	4.4
10	6.0	4.0	4.6	7.0	3.0	4.9	5.3	2.6	3.8	4.7	3.6	4.1
11	6.2	4.1	5.1	6.3	3.3	4.2	5.1	2.5	3.9	5.0	3.6	4.2
12	7.3	4.6	5.5	7.5	3.3	4.9	5.5	2.9	4.1	5.2	3.9	4.4
13	7.5	4.8	6.0	7.2	3.9	5.5	5.2	3.1	4.0	5.2	3.5	4.4
14	7.7	4.8	6.2	7.6	3.8	5.4	5.1	3.6	4.2	5.1	3.8	4.3
15	7.4	5.0	6.1	7.1	3.5	5.3	5.1	3.0	4.1	5.3	3.8	4.6
16	6.4	4.2	5.1	6.8	3.0	4.6	5.5	3.0	4.2	5.3	4.3	4.8
17	7.4	4.5	5.5	7.3	3.3	4.9	5.0	3.5	4.2	5.9	4.5	4.9
18	7.2	4.6	5.8	7.6	3.4	5.2	5.0	2.9	3.9	5.8	4.2	5.0
19	7.2	4.8	5.8	7.4	3.4	5.2	5.7	3.4	4.3	5.3	3.7	4.7
20	6.8	4.6	5.5	7.1	3.1	5.2	5.2	3.1	3.8	5.3	3.9	4.5
21	6.7	4.5	5.4	6.8	4.1	5.4	5.1	2.9	3.7	5.6	4.2	4.8
22	6.4	4.7	5.3	6.1	3.1	4.2	4.7	2.9	3.8	5.4	4.2	4.6
23	6.0	4.4	5.1	4.7	2.8	3.9	4.4	3.1	3.6	5.3	4.1	4.6
24	5.9	4.5	5.1	4.0	2.1	2.9	4.8	3.0	3.7	5.4	4.0	4.7
25	7.7	4.7	5.7	5.5	2.6	3.6	5.2	3.1	4.0	5.4	4.0	4.7
26	8.3	5.1	6.3	5.8	2.7	4.1	5.2	3.5	4.2	5.4	4.6	5.0
27	7.7	4.7	6.0	5.8	3.4	4.3	5.2	3.5	4.3	5.3	3.8	4.6
28	7.9	4.7	6.1	5.2	3.0	3.7	5.7	4.0	4.8	---	---	---
29	7.8	4.7	6.1	4.2	2.5	3.3	5.7	3.8	4.7	5.1	3.8	4.6
30	7.6	5.1	6.2	6.2	3.2	4.4	5.3	3.7	4.5	5.5	3.4	4.4
31	---	---	---	6.0	3.0	4.1	5.3	3.7	4.4	---	---	---
Month	---	---	---	7.9	2.1	4.7	6.6	2.4	4.2	---	---	---

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 12

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; ng/L, nanograms per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; 9, Routine sample; J, Storm; X, Not applicable; OAQ, QC sample - Artificial; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified; 2, Blank; 7, Replicate; 9, Regular; B, Other QA]

Date	Sample start time	Sample type code	Medium code	Discharge, instantane-		pH, water, unfiltered, field, standard units	Specific conduc-	Turbidity, water, unfiltered, mono-
				neous, ft ³ /s (00061)	oxygen, water, unfiltered, mg/L (00300)			chroma near infra-red LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)
10-06-2010	1150	7	WS	347	6.2	7.5	536	21.5
10-06-2010	1155	7	WSQ	--	--	--	--	--
03-31-2011	1645	9	WS	571	9.0	7.8	651	13.0
04-28-2011	1425	9	WS	1,250	7.6	7.5	637	14.2
05-12-2011	1130	9	WS	3,640	5.6	7.4	664	20.4
05-12-2011	1530	9	WS	432	5.6	7.5	668	20.4
05-12-2011	2030	9	WS	-512	6.6	7.5	663	20.9
05-13-2011	0030	9	WS	2,510	8.2	7.7	667	21.5
05-13-2011	0430	9	WS	1,860	7.1	7.6	687	20.9
05-13-2011	0930	9	WS	-656	5.6	7.5	712	20.2
05-23-2011	1200	9	WS	1,350	5.9	7.4	663	20.0
06-08-2011	1045	9	WS	-294	7.6	7.7	683	23.9
07-12-2011	1000	B	WSQ	--	--	--	--	--
07-12-2011	1005	B	WSQ	--	--	--	--	--
07-12-2011	1030	9	WS	1,320	3.9	7.4	610	25.7
07-28-2011	1124	9	WS	1,900	3.1	7.3	570	27.7
07-28-2011	1224	9	WS	-1,770	3.1	7.5	581	27.5
07-28-2011	1324	9	WS	-513	3.1	7.5	581	27.5
07-28-2011	1424	9	WS	221	3.1	7.5	590	27.5
07-28-2011	1524	9	WS	-559	3.0	7.5	591	27.5
07-28-2011	1624	9	WS	2,940	3.0	7.4	604	27.4
08-11-2011	1045	9	WS	-797	2.9	7.4	571	27.4
08-11-2011	1215	2	OAQ	--	--	--	--	--
09-07-2011	1135	9	WS	-184	4.4	7.5	546	24.9
09-28-2011	0959	9	WS	729	5.4	7.5	532	20.6
09-28-2011	1129	9	WS	1,840	5.0	7.5	529	20.6
09-28-2011	1429	9	WS	1,790	4.8	7.5	512	20.8
09-28-2011	2059	9	WS	149	4.6	7.5	492	21.1
09-29-2011	0159	9	WS	1,970	5.1	7.5	514	21.0
09-29-2011	0359	9	WS	464	5.0	7.5	517	20.9

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 12

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; ng/L, nanograms per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; 9, Routine sample; J, Storm; X, Not applicable; OAQ, QC sample - Artificial; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified; 2, Blank; 7, Replicate; 9, Regular; B, Other QA]

Date	Sample start time	Bisphenol A-d3, surrogate, Schedule 4433 and Labcode 8033 (WWWW), water, unfiltered,	Caffeine- 13C, surrogate, Schedule 4433 and Labcode 8033 (WWWW), water, unfiltered,	Decafluoro biphenyl, surrogate, Schedule 4433 and Labcode 8033 (WWWW), water, unfiltered,	Fluoranthene ne-d10, surrogate, Schedule 4433 and Labcode 8033 (WWWW), water, unfiltered,	Number of sampling points, count (00063)	Sample purpose (71999)	Sampler type (84164)
		percent recovery (62839)	percent recovery (62840)	percent recovery (62841)	percent recovery (62842)			
10-06-2010	1150	60.1	51.1	40.1	66.2	1	Routine	US DH-81 Teflon
10-06-2010	1155	--	--	--	--	--	Routine	US DH-81 Teflon
03-31-2011	1645	--	--	--	--	--	Routine	Sampler point auto
04-28-2011	1425	--	--	--	--	--	Routine	Sampler point auto
05-12-2011	1130	--	--	--	--	--	Routine	Sampler point auto
05-12-2011	1530	--	--	--	--	--	Routine	Sampler point auto
05-12-2011	2030	--	--	--	--	--	Routine	Sampler point auto
05-13-2011	0030	--	--	--	--	--	Routine	Sampler point auto
05-13-2011	0430	--	--	--	--	--	Routine	Sampler point auto
05-13-2011	0930	--	--	--	--	--	Routine	Sampler point auto
05-23-2011	1200	--	--	--	--	--	Routine	Sampler point auto
06-08-2011	1045	--	--	--	--	--	Routine	Sampler point auto
07-12-2011	1000	--	--	--	--	--	Routine	Weighted-bottle
07-12-2011	1005	--	--	--	--	--	Routine	Weighted-bottle
07-12-2011	1030	--	--	--	--	--	Routine	Sampler point auto
07-28-2011	1124	--	--	--	--	--	Routine	Sampler point auto
07-28-2011	1224	--	--	--	--	--	Routine	Sampler point auto
07-28-2011	1324	--	--	--	--	--	Routine	Sampler point auto
07-28-2011	1424	--	--	--	--	--	Routine	Sampler point auto
07-28-2011	1524	--	--	--	--	--	Routine	Sampler point auto
07-28-2011	1624	--	--	--	--	--	Routine	Sampler point auto
08-11-2011	1045	141	92.8	64.3	98.7	--	Routine	Sampler point auto
08-11-2011	1215	94.7	91.9	65.7	102	--	Routine	--
09-07-2011	1135	--	--	--	--	--	Routine	Sampler point auto
09-28-2011	0959	--	--	--	--	--	Routine	Sampler point auto
09-28-2011	1129	--	--	--	--	--	Routine	Sampler point auto
09-28-2011	1429	--	--	--	--	--	Routine	Sampler point auto
09-28-2011	2059	--	--	--	--	--	Routine	Sampler point auto
09-29-2011	0159	--	--	--	--	--	Routine	Sampler point auto
09-29-2011	0359	--	--	--	--	--	Routine	Sampler point auto

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 12

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; ng/L, nanograms per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; 9, Routine sample; J, Storm; X, Not applicable; OAQ, QC sample - Artificial; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified; 2, Blank; 7, Replicate; 9, Regular; B, Other QA]

Date	Sample start time	Sampling method (82398)	Calci-	Magne-	Chloride,	Fluoride,	Sulfate,	Ammonia,	Nitrate
			um, water, filtered, mg/L (00915)	sium, water, filtered, mg/L (00925)	water, filtered, mg/L (00940)	water, filtered, mg/L (00950)	water, filtered, mg/L (00945)	water, filtered, mg/L as N (00608)	plus nitrite, water, filtered, mg/L as N (00631)
10-06-2010	1150	Grab sample(dip)	--	--	--	--	--	--	--
10-06-2010	1155	Grab sample(dip)	--	--	--	--	--	--	--
03-31-2011	1645	Point sample	--	--	67.6	--	--	.444	3.60
04-28-2011	1425	Point sample	--	--	69.1	--	--	.295	2.97
05-12-2011	1130	Point sample	53.3	20.5	68.8	.68	52.5	.470	3.60
05-12-2011	1530	Point sample	--	--	69.8	--	--	.369	3.62
05-12-2011	2030	Point sample	--	--	73.8	--	--	.317	3.49
05-13-2011	0030	Point sample	--	--	76.7	--	--	.286	3.58
05-13-2011	0430	Point sample	--	--	65.7	--	--	.289	3.61
05-13-2011	0930	Point sample	--	--	73.0	--	--	.375	3.41
05-23-2011	1200	Point sample	--	--	80.1	--	--	.341	3.60
06-08-2011	1045	Point sample	--	--	68.9	--	--	.266	3.32
07-12-2011	1000	EWI non-isokinetic	--	--	59.6	--	--	.200	3.84
07-12-2011	1005	EWI non-isokinetic	--	--	59.8	--	--	.187	3.81
07-12-2011	1030	Point sample	--	--	59.9	--	--	.183	3.75
07-28-2011	1124	Point sample	43.5	17.7	54.0	.55	64.0	.100	3.16
07-28-2011	1224	Point sample	--	--	53.8	--	--	.085	3.07
07-28-2011	1324	Point sample	--	--	59.5	--	--	.085	3.15
07-28-2011	1424	Point sample	--	--	55.9	--	--	.206	3.19
07-28-2011	1524	Point sample	--	--	56.9	--	--	.252	3.23
07-28-2011	1624	Point sample	--	--	57.4	--	--	.207	3.33
08-11-2011	1045	Point sample	--	--	51.0	--	--	.121	3.28
08-11-2011	1215	--	.070	.030	.57	<.04	<.09	.012	<.02
09-07-2011	1135	Point sample	--	--	46.5	--	--	.160	3.27
09-28-2011	0959	Point sample	--	--	49.1	--	--	.157	3.71
09-28-2011	1129	Point sample	--	--	47.9	--	--	.159	3.66
09-28-2011	1429	Point sample	--	--	45.4	--	--	.170	3.52
09-28-2011	2059	Point sample	40.8	14.7	44.7	.50	52.1	.195	3.36
09-29-2011	0159	Point sample	--	--	46.1	--	--	.150	3.40
09-29-2011	0359	Point sample	--	--	48.7	--	--	.141	3.73

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 4 of 12

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; ng/L, nanograms per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; 9, Routine sample; J, Storm; X, Not applicable; OAQ, QC sample - Artificial; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified; 2, Blank; 7, Replicate; 9, Regular; B, Other QA]

Date	Sample start time	Nitrite, water, filtered, mg/L as N (00613)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, unfiltered, mg/L as P (00665)	Total nitrogen, water, analytically determined, mg/L (62855)	Mercury, water, unfiltered, ng/L (50286)	1,4-Dichlorobenzene, water, unfiltered, recoverable, micrograms per liter (34571)			Atrazine, water, unfiltered, recoverable, micrograms per liter (39630)	Bromacil, water, unfiltered, recoverable, micrograms per liter (30234)
10-06-2010	1150	--	--	--	--	3.88	<.08	.03	<.16		
10-06-2010	1155	--	--	--	--	4.24	--	--	--		
03-31-2011	1645	.067	.022	.104	4.33	--	--	--	--		
04-28-2011	1425	.038	.022	.102	3.88	--	--	--	--		
05-12-2011	1130	.052	.025	.260	4.49	--	--	--	--		
05-12-2011	1530	.050	.023	.167	4.36	--	--	--	--		
05-12-2011	2030	.049	.022	.111	4.22	--	--	--	--		
05-13-2011	0030	.050	.026	.077	4.23	--	--	--	--		
05-13-2011	0430	.050	.025	.086	4.31	--	--	--	--		
05-13-2011	0930	.054	.023	.253	4.41	--	--	--	--		
05-23-2011	1200	.055	.029	.165	4.38	--	--	--	--		
06-08-2011	1045	.068	.020	.070	4.03	--	--	--	--		
07-12-2011	1000	.181	.028	.078	4.46	--	--	--	--		
07-12-2011	1005	.182	.029	.074	4.43	--	--	--	--		
07-12-2011	1030	.180	.029	.073	4.38	--	--	--	--		
07-28-2011	1124	.123	.043	.098	3.68	--	--	--	--		
07-28-2011	1224	.113	.042	.100	3.54	--	--	--	--		
07-28-2011	1324	.114	.044	.107	3.64	--	--	--	--		
07-28-2011	1424	.117	.043	.114	3.76	--	--	--	--		
07-28-2011	1524	.122	.046	.120	4.05	--	--	--	--		
07-28-2011	1624	.123	.053	.124	3.91	--	--	--	--		
08-11-2011	1045	.113	.063	.142	3.78	28.4	.02	.15	<.16		
08-11-2011	1215	<.001	<.004	.004	<.05	--	<.08	<.16	<.16		
09-07-2011	1135	.050	.046	.178	3.79	--	--	--	--		
09-28-2011	0959	.053	.078	.153	4.17	--	--	--	--		
09-28-2011	1129	.054	.078	.194	4.20	--	--	--	--		
09-28-2011	1429	.056	.075	.279	4.04	--	--	--	--		
09-28-2011	2059	.054	.054	.131	3.89	--	--	--	--		
09-29-2011	0159	.053	.064	.131	3.79	--	--	--	--		
09-29-2011	0359	.052	.073	.139	4.17	--	--	--	--		

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 5 of 12

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; ng/L, nanograms per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; 9, Routine sample; J, Storm; X, Not applicable; OAQ, QC sample - Artificial; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified; 2, Blank; 7, Replicate; 9, Regular; B, Other QA]

Date	Sample start time	Camphor, water, unfiltered, recoverabl e, microgram s per liter (62817)	Carbaryl, water, unfiltered, recoverabl e, microgram s per liter (39750)	Carbazole, unfiltered, recoverabl e, microgram s per liter (77571)	Chlorpyrifos, unfiltered, recoverabl e, microgram s per liter (38932)	DEET, water, unfiltered, recoverabl e, microgram s per liter (61947)	Diazinon, water, unfiltered, recoverabl e, microgram s per liter (39570)	Dichlorvos, water, unfiltered, recoverabl e, microgram s per liter (30218)	Metalaxyl, water, unfiltered, recoverabl e, microgram s per liter (04254)	Metolachlor, water, unfiltered, recoverabl e, microgram s per liter (82612)
10-06-2010	1150	< .08	< .06	< .020	< .32	< .04	< .32	< .08	< .16	.02
10-06-2010	1155	--	--	--	--	--	--	--	--	--
03-31-2011	1645	--	--	--	--	--	--	--	--	--
04-28-2011	1425	--	--	--	--	--	--	--	--	--
05-12-2011	1130	--	--	--	--	--	--	--	--	--
05-12-2011	1530	--	--	--	--	--	--	--	--	--
05-12-2011	2030	--	--	--	--	--	--	--	--	--
05-13-2011	0030	--	--	--	--	--	--	--	--	--
05-13-2011	0430	--	--	--	--	--	--	--	--	--
05-13-2011	0930	--	--	--	--	--	--	--	--	--
05-23-2011	1200	--	--	--	--	--	--	--	--	--
06-08-2011	1045	--	--	--	--	--	--	--	--	--
07-12-2011	1000	--	--	--	--	--	--	--	--	--
07-12-2011	1005	--	--	--	--	--	--	--	--	--
07-12-2011	1030	--	--	--	--	--	--	--	--	--
07-28-2011	1124	--	--	--	--	--	--	--	--	--
07-28-2011	1224	--	--	--	--	--	--	--	--	--
07-28-2011	1324	--	--	--	--	--	--	--	--	--
07-28-2011	1424	--	--	--	--	--	--	--	--	--
07-28-2011	1524	--	--	--	--	--	--	--	--	--
07-28-2011	1624	--	--	--	--	--	--	--	--	--
08-11-2011	1045	.01	< .06	< .020	< .32	.15	< .32	< .08	< .16	.01
08-11-2011	1215	< .08	< .06	< .020	< .32	< .04	< .32	< .08	< .16	< .04
09-07-2011	1135	--	--	--	--	--	--	--	--	--
09-28-2011	0959	--	--	--	--	--	--	--	--	--
09-28-2011	1129	--	--	--	--	--	--	--	--	--
09-28-2011	1429	--	--	--	--	--	--	--	--	--
09-28-2011	2059	--	--	--	--	--	--	--	--	--
09-29-2011	0159	--	--	--	--	--	--	--	--	--
09-29-2011	0359	--	--	--	--	--	--	--	--	--

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 6 of 12

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; ng/L, nanograms per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; 9, Routine sample; J, Storm; X, Not applicable; OAQ, QC sample - Artificial; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified; 2, Blank; 7, Replicate; 9, Regular; B, Other QA]

Date	Sample start time	p-Cresol, water, unfiltered, recoverabl e, recoverable, microgram s per liter (77146)	Penta-chloro-phenol, unfiltered, recoverabl e, recoverable, µg/L (39032)	Methylnap hthalene, water, unfiltered, recoverabl e, recoverable, microgram s per liter (39056)	1- Methylnap hthalene, water, unfiltered, recoverabl e, recoverable, microgram s per liter (81696)	2,6- Dimethyln aphthalen e, water, unfiltered, recoverabl e, recoverable, microgram s per liter (62805)	2- Methylnap hthalene, water, unfiltered, recoverabl e, recoverable, microgram s per liter (30194)	Dichloroph enyl isocyanate, water, unfiltered, recoverabl e, recoverable, microgram s per liter (63145)	3-beta- Coprostan ol, water, unfiltered, recoverabl e, recoverable, microgram s per liter (62806)	3-Methyl- 1H-indole, water, unfiltered, recoverabl e, recoverable, microgram s per liter (62807)
10-06-2010	1150	<.08	< 1.6	< .16	< .04	< .04	.01	< .32	< 1.6	< .04
10-06-2010	1155	--	--	--	--	--	--	--	--	--
03-31-2011	1645	--	--	--	--	--	--	--	--	--
04-28-2011	1425	--	--	--	--	--	--	--	--	--
05-12-2011	1130	--	--	--	--	--	--	--	--	--
05-12-2011	1530	--	--	--	--	--	--	--	--	--
05-12-2011	2030	--	--	--	--	--	--	--	--	--
05-13-2011	0030	--	--	--	--	--	--	--	--	--
05-13-2011	0430	--	--	--	--	--	--	--	--	--
05-13-2011	0930	--	--	--	--	--	--	--	--	--
05-23-2011	1200	--	--	--	--	--	--	--	--	--
06-08-2011	1045	--	--	--	--	--	--	--	--	--
07-12-2011	1000	--	--	--	--	--	--	--	--	--
07-12-2011	1005	--	--	--	--	--	--	--	--	--
07-12-2011	1030	--	--	--	--	--	--	--	--	--
07-28-2011	1124	--	--	--	--	--	--	--	--	--
07-28-2011	1224	--	--	--	--	--	--	--	--	--
07-28-2011	1324	--	--	--	--	--	--	--	--	--
07-28-2011	1424	--	--	--	--	--	--	--	--	--
07-28-2011	1524	--	--	--	--	--	--	--	--	--
07-28-2011	1624	--	--	--	--	--	--	--	--	--
08-11-2011	1045	<.08	< 1.6	.02	.01	< .04	.04	E .04	< 1.6	< .04
08-11-2011	1215	<.08	< 1.6	< .16	< .04	< .04	< .04	< .32	< 1.6	< .04
09-07-2011	1135	--	--	--	--	--	--	--	--	--
09-28-2011	0959	--	--	--	--	--	--	--	--	--
09-28-2011	1129	--	--	--	--	--	--	--	--	--
09-28-2011	1429	--	--	--	--	--	--	--	--	--
09-28-2011	2059	--	--	--	--	--	--	--	--	--
09-29-2011	0159	--	--	--	--	--	--	--	--	--
09-29-2011	0359	--	--	--	--	--	--	--	--	--

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 7 of 12

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; ng/L, nanograms per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; 9, Routine sample; J, Storm; X, Not applicable; OAQ, QC sample - Artificial; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified; 2, Blank; 7, Replicate; 9, Regular; B, Other QA]

Date	Sample start time	3-tert-Butyl-4-hydroxyanisole, water, unfiltered, recoverabl		4-n-Butylphenol, water, unfiltered, recoverabl		4-n-Cumylphenol, water, unfiltered, recoverabl		4-n-Octylphenol, water, unfiltered, recoverabl		4-n-Nonylphenol (sum of isomers), water, unfiltered, recoverabl		4-n-Diethoxylate (sum of isomers), water, unfiltered, recoverabl		4-n-Monoethoxylate (sum of all isomers), water, unfiltered, recoverabl		4-tert-Octylphenol, water, unfiltered, recoverabl		4-tert-Octylphenol monoethoxylate, water, unfiltered, recoverabl	
		microgram s per liter (61702)	e, (62808)	microgram s per liter (62809)	e, (62829)	microgram s per liter (62829)	e, (62829)	microgram s per liter (61703)	e, (61703)	microgram s per liter (61704)	e, (61704)	microgram s per liter (62486)	e, (62486)	microgram s per liter (62485)	e, (62485)	microgram s per liter (62810)	e, (62810)		
10-06-2010	1150	<.16	<.04	<.02	<1.6	E 2.5	E .44	E .3	E .4	E .3	<.6	E .3	<.6	E .3	<.6	M	<.4		
10-06-2010	1155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
03-31-2011	1645	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
04-28-2011	1425	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
05-12-2011	1130	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
05-12-2011	1530	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
05-12-2011	2030	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
05-13-2011	0030	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
05-13-2011	0430	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
05-13-2011	0930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
05-23-2011	1200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
06-08-2011	1045	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07-12-2011	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07-12-2011	1005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07-12-2011	1030	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07-28-2011	1124	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07-28-2011	1224	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07-28-2011	1324	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07-28-2011	1424	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07-28-2011	1524	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07-28-2011	1624	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
08-11-2011	1045	<.16	<.04	<.02	E .4	E 5.1	E .61	E .1	E .1	E .1	<.6	E .1	<.6	E .1	<.6	M	<.4		
08-11-2011	1215	<.16	<.04	<.02	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<.2	<.2	<.2	<.2	<.2	<.2	<.4		
09-07-2011	1135	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
09-28-2011	0959	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
09-28-2011	1129	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
09-28-2011	1429	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
09-28-2011	2059	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
09-29-2011	0159	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
09-29-2011	0359	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 8 of 12

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; ng/L, nanograms per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; 9, Routine sample; J, Storm; X, Not applicable; OAQ, QC sample - Artificial; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified; 2, Blank; 7, Replicate; 9, Regular; B, Other QA]

Date	Sample start time	Acetyl hexamethyl I									
		5-Methyl- 1H-benzotriaz- ole, water, unfiltered, recoverabl e, microgram s per liter (61944)	9,10-tetrahydro- Anthraquin- one, water, unfiltered, recoverabl e, microgram s per liter (62813)	Acetophen- one, water, unfiltered, recoverabl e, microgram s per liter (62811)	naphthalene, water, unfiltered, recoverabl e, microgram s per liter (62812)	BDE congener unfilterable, recoverabl e, µg/L (34220)	Anthra- cene, water, unfilterable, recoverabl e, microgram s per liter (63147)	Benzo[a]- pyrene, water, unfilterable, recoverabl e, µg/L (34247)	Benzophen- one, water, unfilterable, recoverabl e, microgram s per liter (62814)	Sitosterol, water, unfilterable, recoverabl e, microgram s per liter (62815)	
10-06-2010	1150	< 1.60	E .03	< .4	.01	.01	< .04	.02	< .08	< 1.6	
10-06-2010	1155	--	--	--	--	--	--	--	--	--	
03-31-2011	1645	--	--	--	--	--	--	--	--	--	
04-28-2011	1425	--	--	--	--	--	--	--	--	--	
05-12-2011	1130	--	--	--	--	--	--	--	--	--	
05-12-2011	1530	--	--	--	--	--	--	--	--	--	
05-12-2011	2030	--	--	--	--	--	--	--	--	--	
05-13-2011	0030	--	--	--	--	--	--	--	--	--	
05-13-2011	0430	--	--	--	--	--	--	--	--	--	
05-13-2011	0930	--	--	--	--	--	--	--	--	--	
05-23-2011	1200	--	--	--	--	--	--	--	--	--	
06-08-2011	1045	--	--	--	--	--	--	--	--	--	
07-12-2011	1000	--	--	--	--	--	--	--	--	--	
07-12-2011	1005	--	--	--	--	--	--	--	--	--	
07-12-2011	1030	--	--	--	--	--	--	--	--	--	
07-28-2011	1124	--	--	--	--	--	--	--	--	--	
07-28-2011	1224	--	--	--	--	--	--	--	--	--	
07-28-2011	1324	--	--	--	--	--	--	--	--	--	
07-28-2011	1424	--	--	--	--	--	--	--	--	--	
07-28-2011	1524	--	--	--	--	--	--	--	--	--	
07-28-2011	1624	--	--	--	--	--	--	--	--	--	
08-11-2011	1045	E .47	E .06	< .4	.02	.03	< .04	.11	E .03	< 2.8	
08-11-2011	1215	< .32	< .04	< .4	< .04	< .02	< .04	< .02	< .08	< 1.6	
09-07-2011	1135	--	--	--	--	--	--	--	--	--	
09-28-2011	0959	--	--	--	--	--	--	--	--	--	
09-28-2011	1129	--	--	--	--	--	--	--	--	--	
09-28-2011	1429	--	--	--	--	--	--	--	--	--	
09-28-2011	2059	--	--	--	--	--	--	--	--	--	
09-29-2011	0159	--	--	--	--	--	--	--	--	--	
09-29-2011	0359	--	--	--	--	--	--	--	--	--	

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 9 of 12

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; ng/L, nanograms per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; 9, Routine sample; J, Storm; X, Not applicable; OAQ, QC sample - Artificial; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified; 2, Blank; 7, Replicate; 9, Regular; B, Other QA]

Date	Sample start time	beta-Stigmasterol, water, unfiltered, recoverable e, microgram s per liter (61948)	Bis(2-ethylhexyl) phthalate, water, unfiltered, recoverable e, recoverable, µg/L (39100)	Caffeine, A, water, unfiltered, recoverable e, microgram s per liter (62816)	Cholesterol, I, water, unfiltered, recoverable e, microgram s per liter (81436)	Cotinine, water, unfiltered, recoverable e, microgram s per liter (62818)	Diethyl phthalate, water, unfiltered, recoverable e, microgram s per liter (61945)	Limonene, water, unfiltered, recoverable e, microgram s per liter (34336)	D-fluoranthene, water, unfiltered, recoverable e, microgram s per liter (62819)	Fluoranthene, water, unfiltered, recoverable e, µg/L (34376)
10-06-2010	1150	< 1.6	< 2	< .04	< .08	E .2	< .08	< .4	< .16	.04
10-06-2010	1155	--	--	--	--	--	--	--	--	--
03-31-2011	1645	--	--	--	--	--	--	--	--	--
04-28-2011	1425	--	--	--	--	--	--	--	--	--
05-12-2011	1130	--	--	--	--	--	--	--	--	--
05-12-2011	1530	--	--	--	--	--	--	--	--	--
05-12-2011	2030	--	--	--	--	--	--	--	--	--
05-13-2011	0030	--	--	--	--	--	--	--	--	--
05-13-2011	0430	--	--	--	--	--	--	--	--	--
05-13-2011	0930	--	--	--	--	--	--	--	--	--
05-23-2011	1200	--	--	--	--	--	--	--	--	--
06-08-2011	1045	--	--	--	--	--	--	--	--	--
07-12-2011	1000	--	--	--	--	--	--	--	--	--
07-12-2011	1005	--	--	--	--	--	--	--	--	--
07-12-2011	1030	--	--	--	--	--	--	--	--	--
07-28-2011	1124	--	--	--	--	--	--	--	--	--
07-28-2011	1224	--	--	--	--	--	--	--	--	--
07-28-2011	1324	--	--	--	--	--	--	--	--	--
07-28-2011	1424	--	--	--	--	--	--	--	--	--
07-28-2011	1524	--	--	--	--	--	--	--	--	--
07-28-2011	1624	--	--	--	--	--	--	--	--	--
08-11-2011	1045	< 1.6	< 2	< .04	.08	E 1.1	< .08	< .4	< .16	.24
08-11-2011	1215	< 1.6	< 2	< .04	< .08	< 1.6	< .08	< .4	< .16	< .02
09-07-2011	1135	--	--	--	--	--	--	--	--	--
09-28-2011	0959	--	--	--	--	--	--	--	--	--
09-28-2011	1129	--	--	--	--	--	--	--	--	--
09-28-2011	1429	--	--	--	--	--	--	--	--	--
09-28-2011	2059	--	--	--	--	--	--	--	--	--
09-29-2011	0159	--	--	--	--	--	--	--	--	--
09-29-2011	0359	--	--	--	--	--	--	--	--	--

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 10 of 12

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; ng/L, nanograms per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; 9, Routine sample; J, Storm; X, Not applicable; OAQ, QC sample - Artificial; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified; 2, Blank; 7, Replicate; 9, Regular; B, Other QA]

Date	Sample start time	Hexahydro hexamethy l cyclopenta benzopyra n, water, unfiltered, recoverabl e, microgram s per liter (62823)	Indole, water, unfiltered, recoverabl e, microgram s per liter (62824)	Isoborneol, water, unfiltered, recoverabl e, microgram s per liter (62825)	Iso- phorone, water, unfiltered, recoverabl e, microgram s per liter (62825)	Isopropyl- benzene, water, unfiltered, recoverabl e, µg/L (34408)	Isoquinoli ne, water, unfiltered, recoverabl e, µg/L (77223)	Menthol, water, unfiltered, recoverabl e, microgram s per liter (62826)	Methyl salicylate, water, unfiltered, recoverabl e, microgram s per liter (62827)	Methyl mercury, water, unfiltered, recoverabl e, microgram s per liter (62828)	Methyl- mercury, water, unfiltered, recover- able, ng/L (50284)
10-06-2010	1150	.15	<.04	<.080	<.040	<.04	<.04	<.32	<.08	<.04	
10-06-2010	1155	--	--	--	--	--	--	--	--	--	<.04
03-31-2011	1645	--	--	--	--	--	--	--	--	--	--
04-28-2011	1425	--	--	--	--	--	--	--	--	--	--
05-12-2011	1130	--	--	--	--	--	--	--	--	--	--
05-12-2011	1530	--	--	--	--	--	--	--	--	--	--
05-12-2011	2030	--	--	--	--	--	--	--	--	--	--
05-13-2011	0030	--	--	--	--	--	--	--	--	--	--
05-13-2011	0430	--	--	--	--	--	--	--	--	--	--
05-13-2011	0930	--	--	--	--	--	--	--	--	--	--
05-23-2011	1200	--	--	--	--	--	--	--	--	--	--
06-08-2011	1045	--	--	--	--	--	--	--	--	--	--
07-12-2011	1000	--	--	--	--	--	--	--	--	--	--
07-12-2011	1005	--	--	--	--	--	--	--	--	--	--
07-12-2011	1030	--	--	--	--	--	--	--	--	--	--
07-28-2011	1124	--	--	--	--	--	--	--	--	--	--
07-28-2011	1224	--	--	--	--	--	--	--	--	--	--
07-28-2011	1324	--	--	--	--	--	--	--	--	--	--
07-28-2011	1424	--	--	--	--	--	--	--	--	--	--
07-28-2011	1524	--	--	--	--	--	--	--	--	--	--
07-28-2011	1624	--	--	--	--	--	--	--	--	--	--
08-11-2011	1045	.18	<.04	<.080	<.040	<.04	<.04	<.32	<.08	.05	
08-11-2011	1215	<.04	<.04	<.080	<.040	<.04	<.04	<.32	<.08	--	
09-07-2011	1135	--	--	--	--	--	--	--	--	--	--
09-28-2011	0959	--	--	--	--	--	--	--	--	--	--
09-28-2011	1129	--	--	--	--	--	--	--	--	--	--
09-28-2011	1429	--	--	--	--	--	--	--	--	--	--
09-28-2011	2059	--	--	--	--	--	--	--	--	--	--
09-29-2011	0159	--	--	--	--	--	--	--	--	--	--
09-29-2011	0359	--	--	--	--	--	--	--	--	--	--

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 11 of 12

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; ng/L, nanograms per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; 9, Routine sample; J, Storm; X, Not applicable; OAQ, QC sample - Artificial; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified; 2, Blank; 7, Replicate; 9, Regular; B, Other QA]

Date	Sample start time	Naphtha-lene, water, unfiltered, recoverable, µg/L (34696)	Phenanthrene, water, unfiltered, recoverable, µg/L (34461)	Phenol, water, unfiltered, recoverable, µg/L (34694)	Pyrene, water, unfiltered, recoverable, µg/L (34469)	Tetra-chloro-ethene, water, unfiltered, recoverable, µg/L (34475)	Tribromo-methane, water, unfiltered, recoverable, µg/L (32104)	Tributyl-phosphate, water, unfiltered, recoverable, µg/L (62832)	Triclosan, water, unfiltered, recoverable, µg/L (61708)	Triethyl-citrate, water, unfiltered, recoverable, µg/L (62833)
10-06-2010	1150	<.02	.01	<.16	.04	<.16	.08	<.040	<.32	.03
10-06-2010	1155	--	--	--	--	--	--	--	--	--
03-31-2011	1645	--	--	--	--	--	--	--	--	--
04-28-2011	1425	--	--	--	--	--	--	--	--	--
05-12-2011	1130	--	--	--	--	--	--	--	--	--
05-12-2011	1530	--	--	--	--	--	--	--	--	--
05-12-2011	2030	--	--	--	--	--	--	--	--	--
05-13-2011	0030	--	--	--	--	--	--	--	--	--
05-13-2011	0430	--	--	--	--	--	--	--	--	--
05-13-2011	0930	--	--	--	--	--	--	--	--	--
05-23-2011	1200	--	--	--	--	--	--	--	--	--
06-08-2011	1045	--	--	--	--	--	--	--	--	--
07-12-2011	1000	--	--	--	--	--	--	--	--	--
07-12-2011	1005	--	--	--	--	--	--	--	--	--
07-12-2011	1030	--	--	--	--	--	--	--	--	--
07-28-2011	1124	--	--	--	--	--	--	--	--	--
07-28-2011	1224	--	--	--	--	--	--	--	--	--
07-28-2011	1324	--	--	--	--	--	--	--	--	--
07-28-2011	1424	--	--	--	--	--	--	--	--	--
07-28-2011	1524	--	--	--	--	--	--	--	--	--
07-28-2011	1624	--	--	--	--	--	--	--	--	--
08-11-2011	1045	.06	.06	<.16	.38	E .01	.05	.022	<.32	<.05
08-11-2011	1215	<.02	<.02	<.16	<.02	<.16	<.16	<.040	<.32	<.04
09-07-2011	1135	--	--	--	--	--	--	--	--	--
09-28-2011	0959	--	--	--	--	--	--	--	--	--
09-28-2011	1129	--	--	--	--	--	--	--	--	--
09-28-2011	1429	--	--	--	--	--	--	--	--	--
09-28-2011	2059	--	--	--	--	--	--	--	--	--
09-29-2011	0159	--	--	--	--	--	--	--	--	--
09-29-2011	0359	--	--	--	--	--	--	--	--	--

04092750 INDIANA HARBOR CANAL AT EAST CHICAGO, IN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 12 of 12

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; ng/L, nanograms per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; 9, Routine sample; J, Storm; X, Not applicable; OAQ, QC sample - Artificial; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated; M, presence verified but not quantified; 2, Blank; 7, Replicate; 9, Regular; B, Other QA]

Date	Sample start time	Tris(2-butoxyethyl phosphate, Triphenyl phosphate,	Tris(2-chloroethyl phosphate, phosphate,	Tris(dichloroisopropyl water, water, water,	unfiltered, unfiltered, unfiltered, unfiltered, recoverable	Suspended sediment	Hydrologic event cd
		micrograms per liter (62834)	micrograms per liter (62830)	micrograms per liter (62831)	micrograms per liter (61707)	concentration, mg/L (80154)	
10-06-2010	1150	<.08	<.64	<.16	.07	--	9
10-06-2010	1155	--	--	--	--	--	9
03-31-2011	1645	--	--	--	--	14	9
04-28-2011	1425	--	--	--	--	12	9
05-12-2011	1130	--	--	--	--	46	J
05-12-2011	1530	--	--	--	--	29	J
05-12-2011	2030	--	--	--	--	14	J
05-13-2011	0030	--	--	--	--	7	J
05-13-2011	0430	--	--	--	--	8	J
05-13-2011	0930	--	--	--	--	44	J
05-23-2011	1200	--	--	--	--	38	9
06-08-2011	1045	--	--	--	--	6	9
07-12-2011	1000	--	--	--	--	5	9
07-12-2011	1005	--	--	--	--	4	9
07-12-2011	1030	--	--	--	--	7	9
07-28-2011	1124	--	--	--	--	5	J
07-28-2011	1224	--	--	--	--	5	J
07-28-2011	1324	--	--	--	--	6	J
07-28-2011	1424	--	--	--	--	6	J
07-28-2011	1524	--	--	--	--	8	J
07-28-2011	1624	--	--	--	--	7	J
08-11-2011	1045	<.08	E .58	.08	.08	8	9
08-11-2011	1215	<.08	<.64	<.16	<.32	--	X
09-07-2011	1135	--	--	--	--	20	9
09-28-2011	0959	--	--	--	--	9	J
09-28-2011	1129	--	--	--	--	18	J
09-28-2011	1429	--	--	--	--	33	J
09-28-2011	2059	--	--	--	--	9	J
09-29-2011	0159	--	--	--	--	6	J
09-29-2011	0359	--	--	--	--	7	J