Water-Data Report 2010

295124089542100 Caernarvon Outfall Channel at Caernarvon, LA

Lake Pontchartrain Basin
Eastern Louisiana Coastal Subbasin

LOCATION.--Lat 29°51'12.8", long 89°54'27.7" referenced to North American Datum of 1983, Plaquemines Parish, LA, Hydrologic Unit 08090203, on a four-legged platform, 1000 yards downstream of the outfall of the Caernarvon control structure.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 2001 to current year.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is NAVD 88.

REMARKS.--Site affected by wind and tide. Satellite telemetry at station. Negative discharge indicates flow into marsh storage, not into the Mississippi River.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded positive discharge, 9870 ft^3/s, May 9, 2008; maximum recorded gage height, 7.30 ft., Sept. 1, 2008, but may have been higher during periods of missing record due to Hurricanes Katrina and Gustav; maximum recorded negative discharge, -2200 ft^3/s, Oct. 5, 2007, but may have been higher during periods of missing record due to Hurricanes Katrina and Gustav; minimum recorded gage height, -1.18 ft, Aug. 25, 2008.

EXTREMES FOR CURRENT YEAR.--Maximum positive discharge, 9,570 ft^3/s, May 5; maximum gage height, 3.76 ft, July 7; maximum negative discharge, -749 ft^3/s, Sept. 24; minimum gage height, 0.65 ft, Aug. 25.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,490	1,050	1,160	1,320	1,190	857	1,110	8,300	8,550	8,480	8,570	524
2	4,900	1,760	1,170	1,310	1,240	981	1,240	8,010	8,540	8,420	8,610	605
3	4,830	3,180	1,110	1,320	1,250	872	1,190	8,090	8,540	8,600	8,420	557
4	5,140	3,190	1,100	1,360	905	799	1,210	8,510	8,520	8,610	8,370	516
5	4,990	3,240	1,100	1,360	801	785	1,220	8,940	8,480	8,400	8,330	500
6	5,250	3,260	1,070	1,310	812	746	1,180	8,400	8,400	8,380	8,240	455
7	5,750	3,290	1,020	1,330	643	818	1,160	8,810	8,390	7,310	8,080	379
8	5,940	1,830	887	1,330	712	1,080	1,270	8,870	8,450	2,200	7,910	373
9	6,340	-138	941	1,340	794	1,070	1,220	8,720	8,480	2,250	8,060	410
10	6,160	26	1,020	1,330	660	973	1,260	8,520	8,370	2,280	5,850	402
11	6,260	-56	1,000	1,290	635	951	1,220	8,620	8,190	2,350	591	363
12	5,540	279	955	1,270	624	1,040	1,220	8,680	8,360	6,810	614	336
13	4,070	1,080	887	1,240	659	1,030	1,230	8,480	8,330	8,280	628	341
14	2,580	1,060	919	1,250	611	945	1,220	8,610	8,510	8,420	555	46
15	1,230	1,040	933	1,180	810	866	1,230	8,710	8,580	8,450	605	13
16	1,310	1,180	1,020	1,210	672	861	1,420	8,600	8,500	8,460	580	24
17	1,190	1,350	1,070	1,170	728	875	2,390	2,030	8,680	8,420	527	-66
18	1,120	1,320	1,150	1,110	634	890	2,530	1,470	8,550	8,340	520	101
19	1,140	1,340	1,140	1,090	649	814	2,640	8,350	8,490	8,240	507	-24
20	1,180	1,310	1,130	1,050	637	907	2,640	8,450	8,590	8,240	497	-50
21	1,210	1,260	1,160	1,050	664	981	2,660	8,600	8,570	8,180	484	-94
22	1,090	1,260	1,250	987	632	916	2,790	8,740	8,720	6,450	511	-26
23	994	1,160	1,290	1,010	632	904	5,030	8,730	8,640	309	482	20
24	1,070	1,190	1,310	969	671	999	8,440	8,490	8,670	364	320	-40
25	1,040	1,160	1,300	1,040	555	1,020	8,340	8,520	8,650	340	-12	23
26	1,040	1,220	1,260	979	559	1,080	8,330	8,540	8,720	2,370	-24	-29
27	1,040	1,220	1,280	932	546	1,020	8,460	8,570	8,550	5,010	-10	29
28	1,050	1,200	1,290	990	614	1,170	8,440	8,520	8,480	8,210	136	54
29	1,040	1,160	1,270	1,100	---	1,260	8,370	8,600	8,560	8,350	109	36
30	961	1,130	1,290	1,220	---	1,040	8,240	8,640	8,520	8,450	191	96
31	1,070	---	1,300	1,140	---	1,060	---	8,600	---	8,530	550	---
Total	91,015	42,551	34,782	36,587	20,539	29,610	98,900	251,720	255,580	197,503	88,801	5,874

SUMMARY STATISTICS

	Water Years 2001 - 2010	
Highest daily mean	8,940	May 5, 2010
Lowest daily mean	-232	May 5, 2003
Annual seven-day minimum	-154	May 4, 2003
10 percent exceeds	8,530	
50 percent exceeds	1,220	
90 percent exceeds	393	

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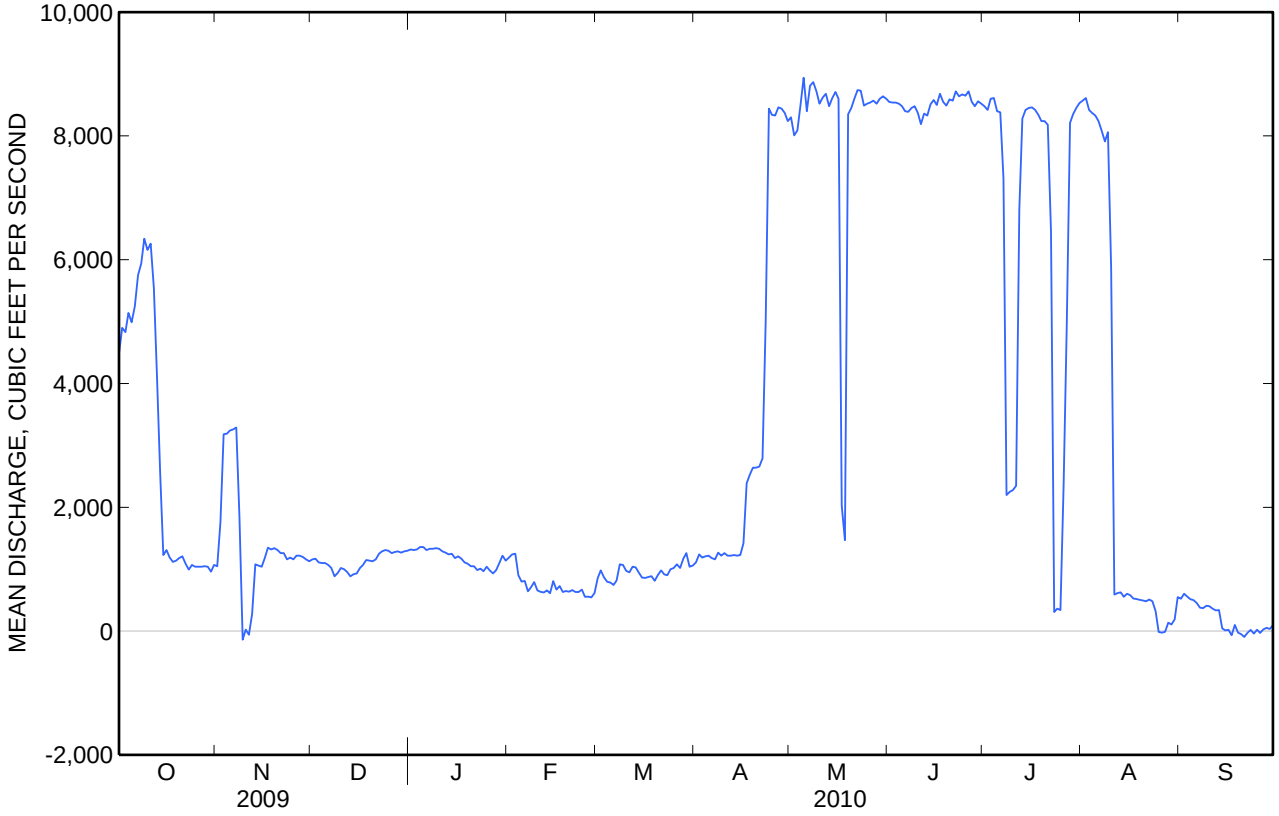

295124089542100 Caernarvon Outfall Channel at Caernarvon, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.94	1.47	1.29	1.14	1.00	0.81	0.91	3.09	3.20	3.51	3.23	2.18
2	3.03	1.62	1.69	1.11	1.03	0.80	0.94	3.33	3.20	3.44	3.25	2.14
3	3.01	2.14	1.47	1.11	1.02	0.73	0.97	3.20	3.20	3.43	3.22	1.84
4	3.13	2.16	1.32	1.10	1.03	0.71	0.98	3.13	3.22	3.57	3.22	1.49
5	3.15	2.18	1.22	1.06	1.19	0.71	1.00	3.15	3.22	3.62	3.22	1.43
6	3.15	2.22	1.17	1.05	0.88	0.71	1.02	3.04	3.24	3.65	3.20	1.54
7	3.22	2.23	1.21	1.06	0.79	0.75	1.09	3.09	3.23	3.65	3.18	1.65
8	3.25	1.98	1.53	1.04	0.82	0.86	1.05	3.08	3.20	2.87	3.14	1.61
9	3.35	1.83	1.40	1.04	0.84	0.88	0.94	3.01	3.23	2.46	3.18	1.51
10	3.30	2.63	1.15	1.04	0.76	0.97	0.94	3.02	3.23	2.12	2.87	1.43
11	3.30	2.11	1.29	1.03	0.75	1.10	0.94	3.08	3.22	1.89	1.60	1.35
12	3.20	1.55	1.78	1.02	0.79	1.05	0.95	3.11	3.25	2.67	1.57	1.14
13	2.81	1.57	1.99	1.01	0.78	0.88	1.01	3.15	3.26	3.12	1.29	1.08
14	2.38	1.47	1.70	1.00	0.76	0.79	1.20	3.20	3.27	3.17	1.11	1.02
15	1.73	1.43	1.84	1.01	0.74	0.74	1.49	3.27	3.29	3.21	0.99	1.15
16	1.57	1.50	1.56	1.24	0.70	0.74	1.60	3.28	3.26	3.23	0.95	1.56
17	1.41	1.45	1.47	1.29	0.69	0.74	1.63	2.35	3.29	3.23	1.06	1.68
18	1.32	1.42	1.60	1.05	0.68	0.74	1.54	1.75	3.28	3.23	1.11	1.77
19	1.36	1.42	1.49	0.97	0.70	0.75	1.50	2.92	3.27	3.21	1.05	1.73
20	1.41	1.47	1.26	0.98	0.72	0.79	1.42	3.05	3.28	3.22	0.97	1.60
21	1.55	1.58	1.15	1.00	0.77	0.89	1.39	3.10	3.30	3.25	0.90	1.56
22	1.93	1.68	1.12	0.94	0.79	0.79	1.41	3.15	3.33	3.11	0.78	1.87
23	2.04	1.60	1.20	0.97	0.78	0.78	1.84	3.16	3.33	1.92	0.76	2.11
24	1.74	1.56	1.55	1.14	0.74	0.81	2.77	3.13	3.34	1.56	0.79	2.15
25	1.59	1.51	1.49	0.98	0.67	0.86	2.81	3.14	3.34	1.62	0.79	1.95
26	1.56	1.36	1.28	0.91	0.69	0.84	2.81	3.15	3.35	1.90	0.98	1.71
27	1.59	1.26	1.27	0.90	0.72	0.88	2.83	3.19	3.33	2.40	1.13	1.44
28	1.57	1.22	1.17	0.94	0.72	0.90	2.81	3.18	3.34	3.10	1.54	1.36
29	1.73	1.23	1.12	1.04	---	0.87	2.83	3.20	3.39	3.18	1.84	1.34
30	1.84	1.25	1.13	0.99	---	0.86	2.90	3.21	3.47	3.21	2.03	1.25
31	1.65	---	1.18	0.97	---	0.89	---	3.21	---	3.23	2.07	---
Max	3.35	2.63	1.99	1.29	1.19	1.10	2.90	3.33	3.47	3.65	3.25	2.18
Min	1.32	1.22	1.12	0.90	0.67	0.71	0.91	1.75	3.20	1.56	0.76	1.02

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WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 2002 to current year.
SALINITY: October 2002 to current year.
WATER TEMPERATURE: October 2002 to current year.

INSTRUMENTATION.--Water-quality monitor recording specific conductance and water temperature.

REMARKS.--2009WY
SPECIFIC CONDUCTANCE: Records excellent except for: Oct. 1-15, Nov. 2-25, Dec. 30-Feb. 9, Mar. 17-Apr. 13 and May 3-17 when good; and May 18-Sep. 30 when fair.
SALINITY: Records excellent except for: Oct. 1-15, Nov. 2-25, Dec. 30-Feb. 9, Mar. 17-Apr. 13 and May 3-17 when good; and May 18-Sep. 30 when fair.
WATER TEMPERATURE: Records good.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 5,320 microsiemens/cm, Sep. 27, 2004; minimum recorded, 177 microsiemens/cm, May 11, 2004. Actual conductance may have been higher during period of missing record associated with Hurricane Gustav.
SALINITY: Maximum, 2.9 ppt, Sep. 27, 2004; minimum, 0.1 ppt, on many days.
WATER TEMPERATURE: Maximum recorded, 34.4°C, Aug. 10, 2008; minimum recorded, 2.7°C, Jan. 14, 15, 19, 2010.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 611 microsiemens/cm, Sept. 30; minimum, 283 microsiemens/cm, May 16.
SALINITY: Maximum, 0.3 ppt, on several days; minimum, 0.1 ppt, on several days.
WATER TEMPERATURE: Maximum, 32.7°C, Aug. 25; minimum, 2.7°C, Jan. 14, 15, 19.

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	390	375	382	305	295	301	391	370	382	311	304	308
2	392	385	389	300	290	295	372	355	363	304	296	298
3	389	376	381	306	293	301	361	352	359	301	296	298
4	389	375	383	313	303	310	361	355	359	313	301	307
5	392	375	384	324	313	318	364	353	357	321	313	317
6	383	360	368	330	324	327	356	350	353	330	321	326
7	369	359	364	329	315	324	354	347	351	332	322	328
8	367	360	363	319	310	313	357	339	349	323	313	316
9	365	354	358	321	312	318	360	342	350	317	312	314
10	367	354	361	392	312	324	364	351	361	316	313	315
11	372	357	363	393	327	346	368	361	365	315	314	314
12	367	355	362	392	312	349	380	364	371	318	314	316
13	355	346	351	316	311	314	382	372	377	317	314	315
14	349	338	344	315	310	312	388	382	386	318	311	315
15	343	337	340	313	310	311	392	384	389	311	308	309
16	341	333	338	318	313	316	399	389	396	310	307	309
17	346	336	342	319	315	317	398	396	397	315	308	312
18	350	340	345	322	317	319	398	378	385	322	315	319
19	340	326	330	324	318	322	379	370	373	329	322	327
20	346	328	336	327	323	325	386	379	383	336	325	331
21	354	346	350	334	326	330	387	380	382	343	335	339
22	368	354	363	336	332	334	387	375	380	351	343	348
23	361	338	354	340	335	337	387	366	374	350	347	348
24	338	307	321	341	336	339	375	356	363	352	346	349
25	307	293	300	351	339	345	357	349	352	355	347	352
26	295	285	291	359	351	354	349	344	346	356	351	353
27	290	285	287	360	356	359	344	340	342	369	352	362
28	296	290	293	372	357	366	341	329	335	369	366	368
29	300	293	297	388	372	380	329	322	326	377	363	369
30	307	298	304	395	388	393	325	320	323	378	375	376
31	309	304	306	---	---	---	321	311	314	377	371	372
Month	392	285	344	395	290	330	399	311	363	378	296	330

295124089542100 Caernarvon Outfall Channel at Caernarvon, LA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	376	370	374	335	317	324	430	400	414	443	426	435
2	370	356	364	325	321	322	405	386	396	441	426	435
3	367	356	360	331	325	327	402	389	395	453	439	445
4	379	367	373	340	331	335	409	394	400	449	443	446
5	382	372	378	354	340	348	412	395	402	455	435	446
6	373	349	361	365	354	357	408	397	403	472	435	458
7	349	333	339	388	365	375	410	390	401	475	460	468
8	333	330	332	401	388	397	402	384	394	460	457	458
9	339	330	335	417	392	402	394	379	389	466	457	461
10	341	336	338	399	363	385	389	377	383	457	393	428
11	337	332	335	377	351	363	385	369	379	393	357	369
12	336	329	331	364	347	352	379	367	375	357	352	354
13	335	331	332	357	349	352	386	373	379	353	347	352
14	335	330	333	361	356	359	387	384	385	347	323	340
15	332	325	328	368	359	362	390	385	387	335	286	314
16	328	323	325	374	368	371	391	386	388	318	283	304
17	325	321	323	383	371	375	392	390	391	333	317	323
18	327	323	324	401	383	391	393	389	391	335	318	327
19	327	322	324	413	401	407	394	390	393	331	323	328
20	328	323	326	423	413	419	397	393	395	333	328	330
21	325	321	323	435	420	428	401	395	399	333	328	330
22	324	319	322	443	434	438	412	400	405	328	323	324
23	323	318	320	452	443	448	415	401	410	328	323	325
24	322	320	321	464	452	459	411	382	391	335	327	330
25	323	320	321	463	446	455	408	371	383	343	335	339
26	334	318	324	446	429	438	412	394	408	343	340	342
27	334	319	327	429	426	428	420	403	412	354	339	344
28	331	317	323	431	417	424	422	407	415	356	344	352
29	---	---	---	420	414	416	424	417	420	358	350	355
30	---	---	---	427	420	424	438	422	432	362	351	355
31	---	---	---	435	419	427	---	---	---	362	355	359
Month	382	317	336	464	317	391	438	367	397	475	283	373

295124089542100 Caernarvon Outfall Channel at Caernarvon, LA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	355	351	353	446	432	438	493	485	489	504	497	502
2	355	351	352	432	414	421	494	491	492	498	495	496
3	361	354	358	416	412	414	505	491	499	500	488	496
4	366	360	363	413	409	412	505	495	500	488	472	477
5	375	366	370	424	413	418	496	473	485	476	468	473
6	386	375	381	427	421	424	473	452	459	470	466	468
7	390	384	388	440	426	433	452	439	446	476	468	473
8	396	387	392	446	440	443	440	433	436	479	474	477
9	400	394	396	445	439	442	439	433	436	479	472	476
10	405	397	401	439	429	434	446	434	437	480	474	478
11	418	402	408	430	423	427	451	444	447	479	473	477
12	421	415	418	436	425	430	447	438	443	478	470	475
13	423	415	419	441	436	438	458	446	452	476	472	474
14	417	413	415	443	439	441	470	457	465	479	469	475
15	422	415	420	448	442	445	469	467	468	481	474	479
16	432	421	426	450	443	446	470	453	460	483	474	479
17	445	431	439	465	450	457	456	452	454	487	478	483
18	452	442	445	473	464	468	458	449	454	490	483	487
19	463	444	453	480	471	474	463	458	460	495	483	489
20	470	457	464	478	465	472	474	460	469	499	490	496
21	469	450	461	475	469	472	472	460	467	523	495	506
22	458	437	448	485	471	477	477	464	469	526	513	517
23	444	423	432	496	485	492	480	468	474	540	517	528
24	429	416	424	500	485	492	490	468	481	554	533	540
25	430	415	422	486	467	478	492	487	489	556	543	546
26	423	413	419	468	463	465	488	485	486	556	543	548
27	435	414	425	467	462	464	489	485	486	544	517	532
28	455	429	444	472	467	470	494	486	489	560	513	522
29	463	444	456	477	470	474	498	486	493	583	543	560
30	463	444	453	481	476	479	500	481	487	611	573	584
31	---	---	---	485	480	481	508	500	504	---	---	---
Month	470	351	415	500	409	452	508	433	470	611	466	500

	Max	Min	Mean
Year	611	283	392

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SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2
3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2
4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
13	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
14	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
16	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
17	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
18	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
19	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
21	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
22	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
24	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
25	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
26	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
27	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
28	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
29	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
31	0.2	0.2	0.2	---	---	---	0.2	0.2	0.2	0.2	0.2	0.2
Month	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.2

295124089542100 Caernarvon Outfall Channel at Caernarvon, LA—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
13	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
14	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
16	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2
17	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
18	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
19	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
21	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
22	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
24	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
25	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
26	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
27	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
28	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
29	---	---	---	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30	---	---	---	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
31	---	---	---	0.2	0.2	0.2	---	---	---	0.2	0.2	0.2
Month	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2

295124089542100 Caernarvon Outfall Channel at Caernarvon, LA—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
13	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
14	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
16	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
17	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
18	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
19	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
21	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
22	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
23	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
24	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
25	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
26	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
27	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
28	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
29	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
30	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
31	---	---	---	0.2	0.2	0.2	0.3	0.2	0.2	---	---	---
Month	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2

	Max	Min	Mean
Year	0.3	0.1	0.2

295124089542100 Caernarvon Outfall Channel at Caernarvon, LA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	26.0	25.6	25.8	16.7	16.2	16.4	13.0	12.6	12.8	7.3	6.8	7.0
2	25.7	25.5	25.6	16.6	16.1	16.2	12.8	12.2	12.5	7.3	6.8	6.9
3	25.6	25.4	25.5	16.3	16.0	16.1	12.4	11.8	12.1	7.1	6.4	6.7
4	25.5	25.3	25.4	16.3	16.0	16.1	11.9	11.4	11.7	6.5	5.9	6.2
5	25.3	25.2	25.3	16.3	16.0	16.1	11.6	11.1	11.3	6.2	5.6	5.8
6	25.4	25.1	25.2	16.3	16.0	16.1	11.3	11.0	11.1	6.0	5.4	5.6
7	25.3	25.0	25.1	16.3	16.0	16.1	11.1	11.0	11.0	5.7	5.2	5.4
8	25.1	24.8	25.0	16.8	16.0	16.2	11.6	11.0	11.3	5.2	4.5	4.9
9	24.8	24.4	24.7	17.2	16.6	16.8	11.6	11.1	11.3	4.8	4.0	4.4
10	24.4	23.7	24.1	18.5	16.7	17.2	11.2	10.8	11.0	4.2	3.5	3.9
11	23.7	23.1	23.4	18.4	17.2	17.6	10.8	10.5	10.7	3.9	3.1	3.5
12	23.1	22.8	23.0	18.1	15.4	17.0	10.6	10.3	10.4	3.6	2.9	3.1
13	22.8	22.4	22.6	15.7	15.3	15.4	10.4	10.0	10.2	3.3	2.8	2.9
14	22.5	22.1	22.3	15.5	15.2	15.3	10.2	9.9	10	3.4	2.7	2.9
15	22.3	21.9	22.0	15.4	15.1	15.2	10.0	9.7	9.9	3.1	2.7	2.9
16	22.0	21.2	21.7	15.4	15.0	15.2	9.7	9.2	9.5	3.1	2.9	3.0
17	21.4	20.5	21.0	15.3	14.8	15.0	9.2	8.9	9.0	3.5	2.9	3.1
18	20.6	19.8	20.2	15.1	14.7	14.8	9.2	8.6	8.9	3.6	2.8	3.0
19	20.1	19.2	19.7	15.0	14.6	14.7	8.8	8.2	8.5	3.7	2.7	3.0
20	19.4	18.8	19.1	14.7	14.4	14.6	8.3	7.8	8.1	3.8	2.9	3.3
21	19.0	18.4	18.7	14.4	14.3	14.4	7.9	7.3	7.6	4.5	3.5	3.8
22	18.6	18.1	18.3	14.3	14.2	14.3	8.1	7.3	7.5	4.5	3.5	3.8
23	18.1	17.4	17.8	14.4	14.1	14.2	8.0	7.5	7.7	4.5	3.8	4.2
24	17.5	17.0	17.3	14.2	14.0	14.1	8.1	7.6	7.8	5.3	4.5	4.9
25	17.1	16.7	16.9	14.2	13.8	14.0	8.0	7.4	7.6	6.0	4.8	5.2
26	16.7	16.4	16.6	14.1	13.5	13.8	7.8	7.5	7.6	6.6	5.3	5.9
27	16.6	16.3	16.4	13.7	13.4	13.5	8.0	7.4	7.6	7.0	6.1	6.4
28	16.4	16.2	16.3	13.8	13.3	13.4	7.8	7.2	7.4	7.0	6.3	6.6
29	17.0	16.2	16.4	13.6	13.2	13.4	7.5	7.1	7.2	7.6	6.8	7.2
30	17.2	16.4	16.7	13.3	13.0	13.2	7.1	7.0	7.1	7.3	6.9	7.1
31	16.8	16.3	16.5	---	---	---	7.5	6.9	7.1	7.3	6.8	7.0
Month	26.0	16.2	21.1	18.5	13.0	15.2	13.0	6.9	9.5	7.6	2.7	4.8

295124089542100 Caernarvon Outfall Channel at Caernarvon, LA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	7.0	6.5	6.8	6.7	6.0	6.2	12.3	11.3	11.7	20.6	20.3	20.4
2	6.9	6.2	6.5	6.3	6.0	6.2	12.5	11.6	12.0	20.7	20.6	20.7
3	6.2	5.6	5.9	7.2	6.0	6.4	12.4	12.0	12.2	21.0	20.7	20.8
4	5.8	5.4	5.5	7.1	6.2	6.5	13.6	12.2	12.6	21.1	20.7	20.9
5	5.9	5.1	5.4	7.2	6.3	6.6	13.9	12.7	13.2	21.3	20.9	21.1
6	5.8	4.8	5.1	7.5	6.4	6.7	14.2	13.2	13.7	21.4	21.1	21.2
7	5.5	4.7	4.9	7.7	6.4	6.8	14.8	13.8	14.2	21.4	21.0	21.2
8	6.0	4.7	5.1	7.2	6.5	6.7	14.9	14.3	14.5	21.4	21.1	21.3
9	5.5	4.8	5.2	7.2	6.6	6.8	15.3	14.4	14.7	21.3	21.0	21.1
10	5.4	4.7	4.9	7.7	6.8	7.2	15.7	14.7	15.1	21.2	20.9	21.0
11	4.9	4.7	4.8	7.8	7.2	7.4	15.9	15.1	15.4	21.1	20.9	21.0
12	4.9	4.5	4.7	8.8	7.3	7.8	16.5	15.4	15.8	21.3	20.9	21.1
13	5.4	4.4	4.7	9.1	7.7	8.2	16.8	15.8	16.2	21.6	21.2	21.4
14	5.8	4.4	4.8	9.6	8.1	8.6	17.1	16.2	16.6	21.7	21.4	21.5
15	5.5	4.4	4.7	9.9	8.6	9.1	17.6	16.6	17.0	21.7	21.5	21.6
16	5.4	4.3	4.7	10.4	9.1	9.6	18.0	17.1	17.5	21.6	21.5	21.5
17	5.6	4.3	4.7	11.0	9.7	10.1	18.2	17.5	17.7	24.1	21.6	22.5
18	5.5	4.5	4.8	11.1	9.9	10.3	18.4	17.8	18.1	26.8	21.8	23.8
19	5.3	4.7	4.9	11.5	10.1	10.5	18.9	18.3	18.5	22.1	21.8	21.9
20	6.0	4.8	5.2	11.9	10.3	10.9	19.0	18.6	18.8	22.2	21.9	22.1
21	5.7	5.1	5.4	11.8	10.6	11.0	19.4	18.8	19.1	22.5	22.2	22.3
22	6.7	5.4	5.8	12.1	10.6	11.0	19.6	19.1	19.3	22.8	22.4	22.6
23	6.4	5.5	5.7	11.4	10.3	10.7	19.4	19.3	19.3	23.1	22.7	22.9
24	6.6	5.4	5.7	10.8	10.1	10.3	19.5	19.3	19.4	23.2	22.9	23.1
25	7.2	5.3	5.7	11.3	10.0	10.3	19.8	19.4	19.6	23.4	23.1	23.2
26	7.1	5.4	5.8	10.8	9.9	10.2	20.0	19.6	19.8	23.4	23.2	23.3
27	6.7	5.7	5.9	11.2	9.9	10.4	20.0	19.8	19.9	23.4	23.2	23.3
28	7.6	5.6	6.1	11.4	10.4	10.7	20.1	19.8	19.9	23.4	23.2	23.3
29	---	---	---	11.6	10.5	10.9	20.4	19.9	20.1	23.4	23.2	23.3
30	---	---	---	11.8	10.8	11.1	20.3	20.1	20.2	23.4	23.3	23.3
31	---	---	---	12.1	11.1	11.5	---	---	---	23.4	23.3	23.3
Month	7.6	4.3	5.3	12.1	6.0	8.9	20.4	11.3	16.7	26.8	20.3	22.0

295124089542100 Caernarvon Outfall Channel at Caernarvon, LA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	23.5	23.3	23.4	29.5	29.2	29.3	30.9	30.5	30.7	30.8	29.8	30.2
2	23.4	23.2	23.3	29.4	29.3	29.3	31.1	30.8	30.9	31.1	29.6	30.1
3	23.7	23.4	23.5	29.4	29.2	29.3	31.1	30.9	31.0	30.4	29.5	29.8
4	23.9	23.7	23.8	29.4	29.2	29.3	31.3	31.0	31.1	30.2	29.3	29.6
5	24.2	23.9	24.0	29.4	29.1	29.2	31.5	31.2	31.3	30.3	29.1	29.5
6	24.5	24.1	24.3	29.3	29.1	29.2	31.4	31.1	31.2	30.4	29.0	29.4
7	25.0	24.5	24.8	29.4	29.2	29.3	31.4	31.1	31.2	30.7	29.0	29.6
8	25.4	25.0	25.2	29.6	29.2	29.3	31.5	31.2	31.3	30.8	28.9	29.5
9	26.0	25.4	25.8	29.6	29.1	29.3	31.5	31.3	31.4	29.6	28.7	29.0
10	26.6	26.0	26.4	29.5	29.1	29.2	31.7	31.3	31.5	30.3	28.5	29.0
11	27.1	26.6	26.9	29.3	29.0	29.1	31.6	31.3	31.4	29.6	28.6	29.0
12	27.6	27.1	27.3	29.4	29.1	29.2	31.5	31.2	31.3	30.0	28.6	29.1
13	27.8	27.4	27.6	29.5	29.2	29.3	31.5	31.2	31.3	30.2	28.5	29.1
14	28.2	27.7	27.9	29.6	29.3	29.4	31.9	31.2	31.4	31.2	28.6	29.7
15	28.4	28.0	28.2	29.7	29.4	29.5	31.8	31.0	31.3	31.2	29.3	30.3
16	28.6	28.3	28.5	29.7	29.5	29.6	32.0	31.0	31.3	31.5	29.8	30.4
17	29.0	28.5	28.8	29.8	29.6	29.7	32.0	31.1	31.3	30.9	29.9	30.3
18	29.1	28.8	29.0	29.8	29.7	29.8	31.9	31.1	31.3	31.3	29.7	30.4
19	29.4	29.0	29.2	30.0	29.8	29.9	31.9	31.0	31.3	31.2	30.0	30.6
20	29.5	29.2	29.3	30.2	29.8	30.0	32.3	31.1	31.4	31.1	30.1	30.5
21	29.5	29.2	29.3	30.0	29.6	29.8	32.2	31.1	31.5	31.2	29.8	30.5
22	29.5	29.2	29.3	29.8	29.6	29.7	32.4	31.1	31.6	30.8	30.0	30.4
23	29.3	29.1	29.2	31.2	29.3	30.0	32.1	30.8	31.3	30.6	29.5	30.1
24	29.3	29.0	29.2	30.3	29.6	29.8	32.1	30.8	31.3	30.6	29.5	30.0
25	29.5	29.2	29.3	31.7	29.8	30.4	32.7	30.9	31.7	30.1	29.4	29.7
26	29.8	29.4	29.6	30.4	29.9	30.2	32.0	31.0	31.5	29.8	29.0	29.4
27	30.2	29.8	30.0	30.5	30.1	30.3	31.2	30.8	31.0	29.0	27.6	28.3
28	30.1	29.9	30.0	30.7	30.3	30.5	30.8	29.5	30.1	28.1	26.8	27.4
29	29.9	29.6	29.8	30.7	30.5	30.6	29.7	28.2	28.8	27.7	26.2	26.7
30	29.6	29.3	29.4	30.8	30.4	30.5	30.3	27.9	28.7	26.8	25.6	26.1
31	---	---	---	30.7	30.3	30.5	30.3	29.9	30.1	---	---	---
Month	30.2	23.2	27.4	31.7	29.0	29.7	32.7	27.9	31.0	31.5	25.6	29.5

	Max	Min	Mean
Year	32.7	2.7	18.5