

## Water-Data Report 2012

**362048075504901 CURRITUCK SOUND 1.2 MILES FROM EAST BANK NEAR COROLLA, NC**

 Albemarle-Chowan Basin  
 Albemarle Subbasin

LOCATION.--Lat 36°20'48", long 75°50'49" referenced to North American Datum of 1983, Currituck County, NC, Hydrologic Unit 03010205, 1.2 mi from east bank of Currituck Sound near Corolla.

DRAINAGE AREA.--Indeterminate.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--August 2011 to September 2012.

REMARKS.--This site is sampled as part of a study to establish baseline bed sediment chemistry and water-quality conditions of Currituck Sound in the vicinity of the planned alignment of the Mid-Currituck Bridge.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 1 of 8

[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	pH, water, unfiltered, laboratory, µS/cm at 25°C (90095)	Specific conductance, water, µS/cm at 25°C (90095)
08-30-2011	1300	Surface water	Regular	769	--	--	--	E 10,000	
08-30-2011	1301	QC sample - Surface water	Duplicate	--	--	--	--	--	
09-28-2011	1230	Surface water	Regular	763	8.9	110	8.3	--	
09-28-2011	1231	QC sample - Surface water	Duplicate	--	--	--	--	--	

## 362048075504901 CURRITUCK SOUND 1.2 MILES FROM EAST BANK NEAR COROLLA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 2 of 8

[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Turbidity, water, unfiltered, broad band light source							
		Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Transparency, water, in situ, Secchi disc, m (00078)	multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Depth to bottom at sample location, ft (81903)	Gage height, ft (00065)	Sampling depth, ft (00003)	Sampling depth, m (00098)
08-30-2011	1300	--	--	0.60	E 12	6.80	0.77	3.94	1.2
08-30-2011	1301	--	--	--	--	--	--	--	--
09-28-2011	1230	10,700	24.7	.60	E 6.7	7.20	.93	3.94	1.2
09-28-2011	1231	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 3 of 8

[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Ammonia plus suspended solids, water, unfiltered, mg/L (00530)						Enterococci, Defined Substrate	Escherichia coli, Defined Substrate
		organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)	Technology, water, MPN/100 mL (99601)		
08-30-2011	1300	33	1.4	0.089	<.02	<.004	0.044	31	52
08-30-2011	1301	--	--	--	--	--	--	20	20
09-28-2011	1230	51	1.2	.114	<.02	<.004	.032	<10	<10
09-28-2011	1231	--	--	--	--	--	--	<10	<10

**362048075504901 CURRITUCK SOUND 1.2 MILES FROM EAST BANK NEAR COROLLA, NC—Continued**

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 4 of 8

[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Aluminum, water,			Chromium, water,			Copper, water,	
		Aluminum, unfiltered, water, µg/L (01106)	unfiltered, recoverable, µg/L (01105)	Cadmium, water, µg/L (01025)	Cadmium, unfiltered, water, µg/L (01027)	Chromium, unfiltered, water, µg/L (01030)	Chromium, filtered, recoverable, µg/L (01034)	Copper, unfiltered, water, µg/L (01040)	unfiltered, recoverable, µg/L (01042)
08-30-2011	1300	< 170	181	< 1.60	< .250	< 6.0	42.7	< 50.0	< 3.5
08-30-2011	1301	--	--	--	--	--	--	--	--
09-28-2011	1230	< 8.5	40.4	< .080	< .500	< .30	< 1.1	< 2.5	< 3.5
09-28-2011	1231	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 5 of 8

[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Iron, water,			Lead, water,			Manganese, water,		Mercury, water,		Nickel, water,	
		Iron, unfiltered, recoverable, µg/L (01045)	Lead, water, filtered, µg/L (01049)	Lead, unfiltered, recoverable, µg/L (01051)	Manganese, water, filtered, µg/L (01056)	Manganese, unfiltered, recoverable, µg/L (01055)	Mercury, water, filtered, µg/L (71890)	Mercury, unfiltered, recoverable, µg/L (71900)	Nickel, water, filtered, µg/L (01065)	Nickel, unfiltered, recoverable, µg/L (01067)			
08-30-2011	1300	267	< 1.50	1.04	< 13.0	50.8	< .005	< .005	< 9.0	0.68			
08-30-2011	1301	--	--	--	--	--	--	--	--	--			
09-28-2011	1230	112	< .075	.63	1.43	55.6	< .005	< .005	.57	1.3			
09-28-2011	1231	--	--	--	--	--	--	--	--	--			

## 362048075504901 CURRITUCK SOUND 1.2 MILES FROM EAST BANK NEAR COROLLA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 6 of 8

[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Silver, water, filtered, µg/L (01075)	Silver, water, unfiltered, recoverable, µg/L (01077)	Zinc, water, filtered, µg/L (01090)	Zinc, water, unfiltered, recoverable, µg/L (01092)	Arsenic, water, filtered, µg/L (01000)	Arsenic, water, unfiltered, µg/L (01002)	Selenium, water, filtered, µg/L (01145)	Selenium, water, unfiltered, recoverable, µg/L (01147)	Hexa-chloro-benzene, water, unfiltered, recoverable, µg/L (39700)
08-30-2011	1300	<.500	<.075	<140	<12.0	3.2	3.1	<3.0	0.477	<.30
08-30-2011	1301	--	--	--	--	--	--	--	--	--
09-28-2011	1230	<.025	<.075	<7.0	<12.0	2.3	2.1	.27	.300	<.30
09-28-2011	1231	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 7 of 8

[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Penta-chloro-phenol, water, unfiltered, recoverable, µg/L (39032)	Benzo[a]-anthra-cene, water, unfiltered, recoverable, µg/L (34526)	Benzo[a]-pyrene, water, unfiltered, recoverable, µg/L (34247)	Benzo[a]-fluoran-thene, water, unfiltered, recoverable, µg/L (34230)	Benzo[k]-fluoran-thene, water, unfiltered, recoverable, µg/L (34242)	Bis(2-chloro-ethyl) ether, water, unfiltered, recoverable, µg/L (34273)	Bis(2-ethylhexyl) phthalate, water, unfiltered, recoverable, µg/L (39100)	Chrysene, water, unfiltered, recoverable, µg/L (34320)	Dibenzo-[a,h]-anthra-cene, water, unfiltered, recoverable, µg/L (34556)
08-30-2011	1300	<.6	<.26	<.32	<.30	<.30	<.30	<2.6	<.32	<.42
08-30-2011	1301	--	--	--	--	--	--	--	--	--
09-28-2011	1230	<.6	<.26	<.32	<.30	<.30	<.30	<2.6	<.32	<.42
09-28-2011	1231	--	--	--	--	--	--	--	--	--

**362048075504901 CURRITUCK SOUND 1.2 MILES FROM EAST BANK NEAR COROLLA, NC—Continued**

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 8 of 8

[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Indeno-[1,2,3-cd]-pyrene, water, unfiltered, recoverable, µg/L (34403)	N-Nitro-sodi-methyl-amine, water, unfiltered, recoverable, µg/L (34438)	N-Nitro-sodi-n-propyl-amine, water, unfiltered, recoverable, µg/L (34428)	N-Nitro-phenanthrene, water, unfiltered, recoverable, µg/L (34461)
08-30-2011	1300	<.38	<.24	<.4	<.32
08-30-2011	1301	--	--	--	--
09-28-2011	1230	<.38	<.24	<.4	<.32
09-28-2011	1231	--	--	--	--

362048075504901 CURRITUCK SOUND 1.2 MILES FROM EAST BANK NEAR COROLLA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 1 of 8

[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Medium name	Sample type	Barometric pressure,	Dissolved oxygen, water, unfiltered,	Dissolved oxygen, water, unfiltered, % saturation	pH, water, unfiltered, field, standard units	Specific conductance, water, unfiltered, µS/cm at 25°C
				mm Hg (00025)	mg/L (00300)	(00301)	(00400)	(00095)
10-18-2011	1200	Surface water	Regular	762	9.3	103	8.2	9,710
10-18-2011	1201	QC sample - Surface water	Duplicate	--	--	--	--	--
10-18-2011	1205	Surface water	Regular	762	9.3	103	8.2	9,710
11-15-2011	0930	Surface water	Regular	768	10.1	101	8.0	9,150
11-15-2011	0931	QC sample - Surface water	Replicate	--	--	--	--	--
11-15-2011	0935	QC sample - Surface water	Duplicate	--	--	--	--	--
11-15-2011	0936	QC sample - Surface water	Duplicate	--	--	--	--	--
12-20-2011	0910	Surface water	Regular	770	11.9	99	8.0	6,300
12-20-2011	0911	QC sample - Surface water	Duplicate	--	--	--	--	--
01-24-2012	1100	Surface water	Regular	768	11.7	106	7.9	6,000
01-24-2012	1101	QC sample - Surface water	Duplicate	--	--	--	--	--
02-22-2012	1200	Surface water	Regular	764	11.7	104	7.9	5,650
02-22-2012	1201	QC sample - Surface water	Duplicate	--	--	--	--	--
03-06-2012	1230	Surface water	Regular	783	12.6	104	7.9	5,620
03-06-2012	1231	QC sample - Surface water	Duplicate	--	--	--	--	--
03-21-2012	1030	Surface water	Regular	773	9.3	103	8.5	6,040
03-21-2012	1031	QC sample - Surface water	Duplicate	--	--	--	--	--
04-17-2012	1300	Surface water	Regular	767	9.3	105	8.1	7,230
04-17-2012	1301	QC sample - Surface water	Duplicate	--	--	--	--	--
05-31-2012	1130	Surface water	Regular	758	8.2	100	8.2	6,990
05-31-2012	1131	QC sample - Surface water	Replicate	--	--	--	--	--
05-31-2012	1132	QC sample - Surface water	Duplicate	--	--	--	--	--
05-31-2012	1133	QC sample - Surface water	Duplicate	--	--	--	--	--
06-20-2012	1130	Surface water	Regular	771	8.9	109	8.6	7,010
06-20-2012	1131	QC sample - Surface water	Duplicate	--	--	--	--	--
07-18-2012	1230	Surface water	Regular	765	8.1	108	8.7	6,700
07-18-2012	1231	QC sample - Surface water	Duplicate	--	--	--	--	--
08-15-2012	1230	Surface water	Regular	764	8.4	110	8.4	6,300
08-15-2012	1231	QC sample - Surface water	Duplicate	--	--	--	--	--
08-15-2012	1235	QC sample - Surface water	Replicate	764	8.4	110	8.4	6,300
08-15-2012	1236	QC sample - Surface water	Duplicate	--	--	--	--	--
09-12-2012	1245	Surface water	Regular	776	9.2	106	8.6	5,650
09-12-2012	1246	QC sample - Surface water	Replicate	--	--	--	--	--
09-12-2012	1247	QC sample - Surface water	Duplicate	--	--	--	--	--
09-12-2012	1248	QC sample - Surface water	Duplicate	--	--	--	--	--

362048075504901 CURRITUCK SOUND 1.2 MILES FROM EAST BANK NEAR COROLLA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 2 of 8

[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Temperature, water, °C (00010)	Transparency, water, in situ, Secchi disc, m (00078)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)		Depth to bottom at sample location, ft (81903)	Gage height, ft (00065)	Sampling depth, ft (00003)	Sampling depth, m (00098)	Suspended solids, water, unfiltered, mg/L (00530)
				including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Depth to bottom at sample location, ft (81903)					
10-18-2011	1200	19.1	0.60	E 8.9	6.90	0.76	2.00	0.61	110	
10-18-2011	1201	--	--	--	--	--	--	--	--	--
10-18-2011	1205	19.1	.60	E 8.5	6.90	.76	5.00	1.5	60	
11-15-2011	0930	14.6	.60	E 12	6.81	.32	2.00	.61	36	
11-15-2011	0931	--	--	--	--	--	2.00	.61	< 60	
11-15-2011	0935	--	--	--	--	--	--	--	--	
11-15-2011	0936	--	--	--	--	--	--	--	--	
12-20-2011	0910	6.9	.60	E 10	6.20	.05	3.29	1.0	76	
12-20-2011	0911	--	--	--	--	--	--	--	--	
01-24-2012	1100	10.5	.60	E 10	4.70	-.18	2.35	.72	30	
01-24-2012	1101	--	--	--	--	--	--	--	--	
02-22-2012	1200	9.6	.50	E 19	6.40	-.13	3.00	.91	48	
02-22-2012	1201	--	--	--	--	--	--	--	--	
03-06-2012	1230	7.5	--	26	6.00	-.57	3.00	.91	66	
03-06-2012	1231	--	--	--	--	--	--	--	--	
03-21-2012	1030	19.9	.70	E 7.9	5.50	-.01	3.00	.91	33	
03-21-2012	1031	--	--	--	--	--	--	--	--	
04-17-2012	1300	20.3	.80	E 6.4	6.20	.33	3.00	.91	92	
04-17-2012	1301	--	--	--	--	--	--	--	--	
05-31-2012	1130	24.3	.80	E 5.3	6.30	.75	3.29	1.0	32	
05-31-2012	1131	--	--	--	--	--	--	1.0	< 33	
05-31-2012	1132	--	--	--	--	--	--	--	--	
05-31-2012	1133	--	--	--	--	--	--	--	--	
06-20-2012	1130	25.2	.75	E 5.2	6.00	.82	3.30	1.0	29	
06-20-2012	1131	--	--	--	--	--	--	--	--	
07-18-2012	1230	29.9	.60	E 7.5	6.40	.98	3.29	1.0	30	
07-18-2012	1231	--	--	--	--	--	--	--	--	
08-15-2012	1230	28.6	.60	E 7.6	6.40	1.13	3.29	1.0	60	
08-15-2012	1231	--	--	--	--	--	--	--	--	
08-15-2012	1235	28.6	.60	E 7.8	6.40	1.13	--	1.0	42	
08-15-2012	1236	--	--	--	--	--	--	--	--	
09-12-2012	1245	22.6	.50	E 8.0	6.00	-.19	3.29	1.0	< 30	
09-12-2012	1246	--	--	--	--	--	--	1.0	51	
09-12-2012	1247	--	--	--	--	--	--	--	--	
09-12-2012	1248	--	--	--	--	--	--	--	--	

## 362048075504901 CURRITUCK SOUND 1.2 MILES FROM EAST BANK NEAR COROLLA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 3 of 8

[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)	Enterococci, Defined Substrate Technology, MPN/100 mL (99601)	Escherichia coli, Defined Substrate Technology, water, MPN/100 mL (50468)	Aluminum, water, filtered, µg/L (01106)
10-18-2011	1200	1.4	0.086	< .040	< .004	0.044	30	10	< 11.0
10-18-2011	1201	--	--	--	--	--	20	20	--
10-18-2011	1205	1.4	.069	< .040	< .004	.046	--	--	11.9
11-15-2011	0930	1.3	.079	< .040	< .004	.051	< 10	< 10	< 11.0
11-15-2011	0931	1.3	.083	< .040	< .004	.062	< 10	< 10	< 11.0
11-15-2011	0935	--	--	--	--	--	< 10	< 10	--
11-15-2011	0936	--	--	--	--	--	< 10	< 10	--
12-20-2011	0910	1.3	.016	.01	< .004	.058	< 10	52	< 6.6
12-20-2011	0911	--	--	--	--	--	10	< 10	--
01-24-2012	1100	1.3	.014	.01	< .004	.053	< 10	< 10	11.1
01-24-2012	1101	--	--	--	--	--	< 10	< 10	--
02-22-2012	1200	1.4	.011	< .01	< .004	.058	< 10	20	< 6.6
02-22-2012	1201	--	--	--	--	--	10	10	--
03-06-2012	1230	1.5	.014	< .01	< .004	.073	< 10	< 10	9.1
03-06-2012	1231	--	--	--	--	--	10	< 10	--
03-21-2012	1030	1.2	.035	< .01	< .004	.048	< 10	< 10	< 6.6
03-21-2012	1031	--	--	--	--	--	< 10	< 10	--
04-17-2012	1300	.92	.021	< .01	< .004	.037	< 10	< 10	< 6.6
04-17-2012	1301	--	--	--	--	--	< 10	< 10	--
05-31-2012	1130	.81	.024	< .01	< .004	.034	< 10	< 10	< 11.0
05-31-2012	1131	.83	.022	.01	< .004	.033	< 10	< 10	< 11.0
05-31-2012	1132	--	--	--	--	--	< 10	10	--
05-31-2012	1133	--	--	--	--	--	< 10	< 10	--
06-20-2012	1130	1.0	.020	< .01	< .004	.040	< 10	< 10	< 11.0
06-20-2012	1131	--	--	--	--	--	10	10	--
07-18-2012	1230	1.5	< .010	.01	< .004	.037	20	< 10	< 6.6
07-18-2012	1231	--	--	--	--	--	20	< 10	--
08-15-2012	1230	1.6	.013	< .01	< .004	.041	30	10	< 11.0
08-15-2012	1231	--	--	--	--	--	20	< 10	--
08-15-2012	1235	1.6	.014	< .01	< .004	.041	< 10	< 10	< 11.0
08-15-2012	1236	--	--	--	--	--	30	< 10	--
09-12-2012	1245	1.7	< .010	< .01	< .004	.051	20	< 10	8.3
09-12-2012	1246	1.7	< .010	< .01	< .004	.050	40	< 10	6.9
09-12-2012	1247	--	--	--	--	--	30	10	--
09-12-2012	1248	--	--	--	--	--	30	< 10	--

362048075504901 CURRITUCK SOUND 1.2 MILES FROM EAST BANK NEAR COROLLA, NC—Continued

**WATER-QUALITY DATA**  
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[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Aluminum, water, unfiltered, recover- able, µg/L (01105)	Cadmium, water, filtered, µg/L (01025)	Cadmium, water, unfiltered, µg/L (01027)	Chromium, water, unfiltered, recover- able, µg/L (01030)	Chromium, water, unfiltered, recover- able, µg/L (01034)	Copper, water, unfiltered, recover- able, µg/L (01040)	Copper, water, unfiltered, recover- able, µg/L (01042)	Iron, water, filtered, µg/L (01046)	Iron, water, unfiltered, recover- able, µg/L (01045)
10-18-2011	1200	75.8	<.080	<.064	<.35	<1.2	<4.0	<7.0	<16.0	154
10-18-2011	1201	--	--	--	--	--	--	--	--	--
10-18-2011	1205	81.5	<.080	<.064	.37	<1.2	<4.0	<7.0	<16.0	174
11-15-2011	0930	243	<.080	<.064	<.35	<3.0	<4.0	<7.0	22.5	339
11-15-2011	0931	276	<.080	<.064	<.35	<3.0	<4.0	<7.0	18.7	402
11-15-2011	0935	--	--	--	--	--	--	--	--	--
11-15-2011	0936	--	--	--	--	--	--	--	--	--
12-20-2011	0910	186	<.048	<.048	<.21	<.90	<2.4	<2.1	12.2	261
12-20-2011	0911	--	--	--	--	--	--	--	--	--
01-24-2012	1100	272	<.080	<.048	<.35	<.90	<4.0	<2.1	<12.8	866
01-24-2012	1101	--	--	--	--	--	--	--	--	--
02-22-2012	1200	385	<.048	<.048	<.21	<.90	7.7	<2.1	<9.6	483
02-22-2012	1201	--	--	--	--	--	--	--	--	--
03-06-2012	1230	634	<.048	<.048	<.21	1.2	<2.4	<2.1	10.3	749
03-06-2012	1231	--	--	--	--	--	--	--	--	--
03-21-2012	1030	119	<.048	<.048	<.21	<.90	<2.4	<2.1	<12.8	207
03-21-2012	1031	--	--	--	--	--	--	--	--	--
04-17-2012	1300	122	<.048	<.080	.21	<1.5	<2.4	<3.5	<12.8	170
04-17-2012	1301	--	--	--	--	--	--	--	--	--
05-31-2012	1130	70.0	<.080	<.048	<.21	<.90	<4.0	<2.1	<12.8	136
05-31-2012	1131	66.9	<.080	<.048	<.21	<.90	<4.0	<2.1	<12.8	135
05-31-2012	1132	--	--	--	--	--	--	--	--	--
05-31-2012	1133	--	--	--	--	--	--	--	--	--
06-20-2012	1130	74.1	<.080	<.096	<.35	<1.8	<4.0	<4.2	14.7	133
06-20-2012	1131	--	--	--	--	--	--	--	--	--
07-18-2012	1230	59.3	<.048	<.048	<.21	<.90	<2.4	<2.1	<12.8	112
07-18-2012	1231	--	--	--	--	--	--	--	--	--
08-15-2012	1230	74.5	<.080	<.048	<.35	<.90	<4.0	<2.1	4.3	126
08-15-2012	1231	--	--	--	--	--	--	--	--	--
08-15-2012	1235	76.7	<.080	<.048	<.35	<.90	<4.0	<2.1	4.3	128
08-15-2012	1236	--	--	--	--	--	--	--	--	--
09-12-2012	1245	65.3	<.048	<.048	<.21	<.90	<2.4	<2.1	<9.6	160
09-12-2012	1246	59.5	<.048	<.048	<.21	<.90	<2.4	<2.1	<9.6	155
09-12-2012	1247	--	--	--	--	--	--	--	--	--
09-12-2012	1248	--	--	--	--	--	--	--	--	--

## 362048075504901 CURRITUCK SOUND 1.2 MILES FROM EAST BANK NEAR COROLLA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

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[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Lead, water, unfiltered, recoverable, µg/L (01049)		Manganese, water, unfiltered, recoverable, µg/L (01056)		Mercury, water, unfiltered, recoverable, µg/L (71890)		Nickel, water, unfiltered, recoverable, µg/L (01065)		Silver, water, filtered, µg/L (01075)	
		Lead, water, filtered, µg/L (01049)	Manganese, water, filtered, µg/L (01056)	Lead, water, unfiltered, recoverable, µg/L (01051)	Manganese, water, unfiltered, recoverable, µg/L (01055)	Mercury, water, filtered, µg/L (71890)	Nickel, water, filtered, µg/L (01065)	Silver, water, filtered, µg/L (01075)			
10-18-2011	1200	<.125	0.68	8.15	73.6	<.005	<.005	1.8	2.0	<.025	
10-18-2011	1201	--	--	--	--	--	--	--	--	--	
10-18-2011	1205	<.125	.67	9.26	90.7	<.005	<.005	1.5	2.0	<.025	
11-15-2011	0930	<.125	1.04	8.08	55.4	<.005	<.005	.81	<1.9	<.025	
11-15-2011	0931	<.125	1.22	2.17	57.2	<.005	<.005	.86	<1.9	<.025	
11-15-2011	0935	--	--	--	--	--	--	--	--	--	
11-15-2011	0936	--	--	--	--	--	--	--	--	--	
12-20-2011	0910	<.075	1.26	5.12	36.4	<.005	<.005	3.4	.71	<.015	
12-20-2011	0911	--	--	--	--	--	--	--	--	--	
01-24-2012	1100	<.125	1.39	5.34	17.1	<.005	<.005	.61	.82	<.025	
01-24-2012	1101	--	--	--	--	--	--	--	--	--	
02-22-2012	1200	<.075	1.60	9.24	16.5	<.005	<.005	.73	.81	<.015	
02-22-2012	1201	--	--	--	--	--	--	--	--	--	
03-06-2012	1230	<.075	1.92	3.44	21.5	<.005	<.005	.57	1.1	<.015	
03-06-2012	1231	--	--	--	--	--	--	--	--	--	
03-21-2012	1030	<.075	.86	5.41	24.2	<.005	<.005	.47	<.57	<.015	
03-21-2012	1031	--	--	--	--	--	--	--	--	--	
04-17-2012	1300	<.075	.61	4.86	17.6	<.005	<.005	.75	<.95	<.015	
04-17-2012	1301	--	--	--	--	--	--	--	--	--	
05-31-2012	1130	<.125	.50	3.43	60.0	<.005	<.005	.58	<.57	<.025	
05-31-2012	1131	<.125	.46	2.61	55.5	<.005	<.005	.54	<.57	<.025	
05-31-2012	1132	--	--	--	--	--	--	--	--	--	
05-31-2012	1133	--	--	--	--	--	--	--	--	--	
06-20-2012	1130	<.125	.64	4.56	57.2	<.005	<.005	.52	<1.1	<.025	
06-20-2012	1131	--	--	--	--	--	--	--	--	--	
07-18-2012	1230	<.075	.41	3.07	78.3	<.005	<.005	.54	<.57	<.015	
07-18-2012	1231	--	--	--	--	--	--	--	--	--	
08-15-2012	1230	<.125	.55	1.24	84.1	<.005	<.005	.51	<.57	<.025	
08-15-2012	1231	--	--	--	--	--	--	--	--	--	
08-15-2012	1235	<.125	.52	5.92	87.0	<.005	<.005	.46	<.57	<.025	
08-15-2012	1236	--	--	--	--	--	--	--	--	--	
09-12-2012	1245	<.075	.93	3.21	75.0	<.005	<.005	.37	<.57	<.015	
09-12-2012	1246	<.075	.93	2.53	73.7	<.005	<.005	.32	<.57	<.015	
09-12-2012	1247	--	--	--	--	--	--	--	--	--	
09-12-2012	1248	--	--	--	--	--	--	--	--	--	

## 362048075504901 CURRITUCK SOUND 1.2 MILES FROM EAST BANK NEAR COROLLA, NC—Continued

**WATER-QUALITY DATA**  
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[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Silver, water, unfiltered, recover- able, µg/L (01077)	Zinc, water, filtered, µg/L (01090)	Zinc, water, unfiltered, recover- able, µg/L (01092)	Arsenic, water, filtered, µg/L (01000)	Arsenic, water, unfiltered, µg/L (01002)	Selenium, water, filtered, µg/L (01145)	Selenium, water, unfiltered, µg/L (01147)	Hexa- chloro- benzene, water, unfiltered, recover- able, µg/L (39700)	Penta- chloro- phenol, water, unfiltered, recover- able, µg/L (39032)
10-18-2011	1200	<.060	< 7.0	< 30.0	4.7	6.4	0.31	< 1.25	< .30	< .6
10-18-2011	1201	--	--	--	--	--	--	--	--	--
10-18-2011	1205	<.060	< 7.0	< 30.0	4.7	4.1	.42	2.55	< .30	< .6
11-15-2011	0930	<.060	< 7.0	< 30.0	1.2	< 2.8	.36	.365	< .30	< .6
11-15-2011	0931	<.060	< 7.0	< 30.0	1.3	< 2.8	.35	.339	< .30	< .6
11-15-2011	0935	--	--	--	--	--	--	--	--	--
11-15-2011	0936	--	--	--	--	--	--	--	--	--
12-20-2011	0910	<.045	< 4.2	< 9.0	1.6	2.2	.29	.704	< .30	< .6
12-20-2011	0911	--	--	--	--	--	--	--	--	--
01-24-2012	1100	<.045	< 7.0	< 9.0	1.0	2.1	.18	.424	< .30	< .6
01-24-2012	1101	--	--	--	--	--	--	--	--	--
02-22-2012	1200	<.045	< 4.2	< 9.0	1.2	1.7	.15	.166	< .30	< .6
02-22-2012	1201	--	--	--	--	--	--	--	--	--
03-06-2012	1230	<.045	< 4.2	< 9.0	1.3	2.2	.12	1.30	< .30	< .6
03-06-2012	1231	--	--	--	--	--	--	--	--	--
03-21-2012	1030	<.045	< 4.2	< 9.0	1.2	1.8	.14	.165	--	--
03-21-2012	1031	--	--	--	--	--	--	--	--	--
04-17-2012	1300	<.075	< 4.2	< 15.0	1.4	2.0	.45	.738	--	--
04-17-2012	1301	--	--	--	--	--	--	--	--	--
05-31-2012	1130	<.045	< 7.0	< 9.0	1.2	1.6	.28	.250	--	--
05-31-2012	1131	<.045	< 7.0	< 9.0	1.3	1.3	.27	.233	--	--
05-31-2012	1132	--	--	--	--	--	--	--	--	--
05-31-2012	1133	--	--	--	--	--	--	--	--	--
06-20-2012	1130	<.090	< 7.0	< 18.0	1.6	1.7	.19	< .300	--	--
06-20-2012	1131	--	--	--	--	--	--	--	--	--
07-18-2012	1230	<.045	< 4.2	< 9.0	1.9	2.3	.21	.201	--	--
07-18-2012	1231	--	--	--	--	--	--	--	--	--
08-15-2012	1230	<.045	< 7.0	< 9.0	1.9	2.7	.20	.288	--	--
08-15-2012	1231	--	--	--	--	--	--	--	--	--
08-15-2012	1235	<.045	< 7.0	< 9.0	2.1	2.1	.23	.258	--	--
08-15-2012	1236	--	--	--	--	--	--	--	--	--
09-12-2012	1245	<.045	< 4.2	< 9.0	1.8	2.3	.27	.214	--	--
09-12-2012	1246	<.045	< 4.2	< 9.0	1.8	1.6	.25	.251	--	--
09-12-2012	1247	--	--	--	--	--	--	--	--	--
09-12-2012	1248	--	--	--	--	--	--	--	--	--

362048075504901 CURRITUCK SOUND 1.2 MILES FROM EAST BANK NEAR COROLLA, NC—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

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[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Benzo[a]-anthra-cene, water, unfiltered, recoverable, µg/L (34526)	Benzo[a]-pyrene, water, unfiltered, recoverable, µg/L (34247)	Benzo[a]-fluoranthene, water, unfiltered, recoverable, µg/L (34230)	Benzo[k]-fluoran-thene, water, unfiltered, recoverable, µg/L (34242)	Bis(2-chloroethyl) ether, water, unfiltered, recoverable, µg/L (34273)	Bis(2-ethylhexyl) phthalate, water, unfiltered, recoverable, µg/L (39100)	Chrysene, water, unfiltered, recoverable, µg/L (34320)	Dibenzo-[a,h]-anthra-cene, water, unfiltered, recoverable, µg/L (34556)	Indeno-[1,2,3-cd]-pyrene, water, unfiltered, recoverable, µg/L (34403)
10-18-2011	1200	<.26	<.32	<.30	<.30	<.30	<2.6	<.32	<.42	<.38
10-18-2011	1201	--	--	--	--	--	--	--	--	--
10-18-2011	1205	<.26	<.32	<.30	<.30	<.30	<2.6	<.32	<.42	<.38
11-15-2011	0930	<.26	<.32	<.30	<.30	<.30	<2.6	<.32	<.42	<.38
11-15-2011	0931	<.26	<.32	<.30	<.30	<.30	<2.6	<.32	<.42	<.38
11-15-2011	0935	--	--	--	--	--	--	--	--	--
11-15-2011	0936	--	--	--	--	--	--	--	--	--
12-20-2011	0910	<.26	<.32	<.30	<.30	<.30	<2.6	<.32	<.42	<.38
12-20-2011	0911	--	--	--	--	--	--	--	--	--
01-24-2012	1100	<.26	<.32	<.30	<.30	<.30	<2.6	<.32	<.42	<.38
01-24-2012	1101	--	--	--	--	--	--	--	--	--
02-22-2012	1200	<.26	<.32	<.30	<.30	<.30	<2.6	<.32	<.42	<.38
02-22-2012	1201	--	--	--	--	--	--	--	--	--
03-06-2012	1230	<.26	<.32	<.30	<.30	<.30	<2.6	<.32	<.42	<.38
03-06-2012	1231	--	--	--	--	--	--	--	--	--
03-21-2012	1030	--	--	--	--	--	--	--	--	--
03-21-2012	1031	--	--	--	--	--	--	--	--	--
04-17-2012	1300	--	--	--	--	--	--	--	--	--
04-17-2012	1301	--	--	--	--	--	--	--	--	--
05-31-2012	1130	--	--	--	--	--	--	--	--	--
05-31-2012	1131	--	--	--	--	--	--	--	--	--
05-31-2012	1132	--	--	--	--	--	--	--	--	--
05-31-2012	1133	--	--	--	--	--	--	--	--	--
06-20-2012	1130	--	--	--	--	--	--	--	--	--
06-20-2012	1131	--	--	--	--	--	--	--	--	--
07-18-2012	1230	--	--	--	--	--	--	--	--	--
07-18-2012	1231	--	--	--	--	--	--	--	--	--
08-15-2012	1230	--	--	--	--	--	--	--	--	--
08-15-2012	1231	--	--	--	--	--	--	--	--	--
08-15-2012	1235	--	--	--	--	--	--	--	--	--
08-15-2012	1236	--	--	--	--	--	--	--	--	--
09-12-2012	1245	--	--	--	--	--	--	--	--	--
09-12-2012	1246	--	--	--	--	--	--	--	--	--
09-12-2012	1247	--	--	--	--	--	--	--	--	--
09-12-2012	1248	--	--	--	--	--	--	--	--	--

**362048075504901 CURRITUCK SOUND 1.2 MILES FROM EAST BANK NEAR COROLLA, NC—Continued**

**WATER-QUALITY DATA**  
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[%, percent; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	N-Nitro-sodi-methyl-amine, water, unfiltered, recover-	N-Nitro-sodi-n-propyl-amine, water, unfiltered, recover-	Phenan-threne, water, unfiltered, recover-
		able, µg/L (34438)	able, µg/L (34428)	able, µg/L (34461)
10-18-2011	1200	<.24	<.4	<.32
10-18-2011	1201	--	--	--
10-18-2011	1205	<.24	<.4	<.32
11-15-2011	0930	<.24	<.4	<.32
11-15-2011	0931	<.24	<.4	<.32
11-15-2011	0935	--	--	--
11-15-2011	0936	--	--	--
12-20-2011	0910	<.24	<.4	<.32
12-20-2011	0911	--	--	--
01-24-2012	1100	<.24	<.4	<.32
01-24-2012	1101	--	--	--
02-22-2012	1200	<.24	<.4	<.32
02-22-2012	1201	--	--	--
03-06-2012	1230	<.24	<.4	<.32
03-06-2012	1231	--	--	--
03-21-2012	1030	--	--	--
03-21-2012	1031	--	--	--
04-17-2012	1300	--	--	--
04-17-2012	1301	--	--	--
05-31-2012	1130	--	--	--
05-31-2012	1131	--	--	--
05-31-2012	1132	--	--	--
05-31-2012	1133	--	--	--
06-20-2012	1130	--	--	--
06-20-2012	1131	--	--	--
07-18-2012	1230	--	--	--
07-18-2012	1231	--	--	--
08-15-2012	1230	--	--	--
08-15-2012	1231	--	--	--
08-15-2012	1235	--	--	--
08-15-2012	1236	--	--	--
09-12-2012	1245	--	--	--
09-12-2012	1246	--	--	--
09-12-2012	1247	--	--	--
09-12-2012	1248	--	--	--