

02043913 YEOPIM RIVER AT PHILLIPS LANDING NEAR BETHEL, NC

Albemarle-Chowan Basin
Albemarle Subbasin

LOCATION.--Lat 36°04'31", long 76°25'19" referenced to North American Datum of 1983, Perquimans County, NC, Hydrologic Unit 03010205, at Phillips Landing, 1 mi above mouth and 5.4 mi southwest of Bethel.

DRAINAGE AREA.--Indeterminate.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to August 2012.

REMARKS.--Station operated in 2012 to define water quality in the Albemarle Sound as part of the National Monitoring Network for U.S. Coastal Waters and their Tributaries. Water-quality samples were collected through a zone equal to double the secchi depth using the depth-integration sampling technique.

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

Part 1 of 5

[CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Depth to bottom from water surface, at sampling location, meters (82903)	Dissolved oxygen, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)
07-24-2012	1000	Surface water	Regular	758	29.1	2.70	8.3	8.4	5,570
08-27-2012	1615	Surface water	Regular	762	28.8	2.70	10.1	8.8	4,990

02043913 YEOPIM RIVER AT PHILLIPS LANDING NEAR BETHEL, NC—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 2 of 5

[CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Temperature, water, °C (00010)	Trans- parency, water, in situ, Secchi disc, m (00078)	Photosynthetically active radiation (average flux density on a horizontal surface during measurement interval), micromoles of photons per square meter per second		Sampling depth, m (00098)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)
07-24-2012	1000	28.7	0.50	1,400	1.0	3,130	< 15	39.2	109	33.9	
08-27-2012	1615	28.6	.50	1,520	1.0	2,770	< 15	35.2	95.5	30.0	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 3 of 5

[CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, fixed endpoint titration, laboratory, mg/L as CaCO ₃ (29801)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO ₃ (39086)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)
07-24-2012	1000	829	36.5	34.0	1,690	0.16	3.16	225	0.90	< .010
08-27-2012	1615	759	--	29.9	1,490	.14	2.67	191	1.0	< .010

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 4 of 5

[CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Nitrate plus nitrite, water, filtered,	Nitrite, water, filtered,	Orthophosphate, water, filtered,	Phosphorus, water, unfiltered,	Chlorophyll a, phytoplankton, chromatographic-fluorometric method,	Aluminum, water, filtered,	Cobalt, water, filtered,	Copper, water, filtered,
		mg/L as N (00631)	mg/L as N (00613)	mg/L as P (00671)	mg/L as P (00665)	µg/L (70953)	µg/L (01106)	µg/L (01035)	µg/L (01040)
07-24-2012	1000	< .040	< .001	< .004	0.071	24.6	< 8.8	2.63	< 3.2
08-27-2012	1615	< .040	< .001	.007	.102	35.1	< 6.6	1.21	< 2.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 5 of 5

[CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Iron, water, filtered,	Lead, water, filtered,	Manganese, water, filtered,	Molybdenum, water, filtered,	Nickel, water, filtered,	Zinc, water, filtered,
		µg/L (01046)	µg/L (01049)	µg/L (01056)	µg/L (01060)	µg/L (01065)	µg/L (01090)
07-24-2012	1000	< 3.2	< .100	3.34	3.40	0.61	< 5.6
08-27-2012	1615	< 9.6	< .075	2.08	1.96	.48	< 4.2