# 01652789 INDIAN RUN AT BREN MAR DRIVE AT ALEXANDRIA, VA

Potomac Basin
Middle Potomac-Anacostia-Occoquan Subbasin

LOCATION.--Lat 38°47'59.3", long 77°08'57.7" referenced to North American Datum of 1983, Fairfax County, VA, Hydrologic Unit 02070010, on right bank, 50 ft upstream from Bren Mar Drive, 1.2 mi southwest of Alexandria, and 0.2 mi upstream from mouth.

DRAINAGE AREA.--2.45 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2008 to current year.

GAGE.--Crest-stage gage October 2008 to September 2011. Datum of gage is 90.1 ft NAVD of 1988.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,260 $ft^3/s$, Sept. 8, 2011, gage height, 29.54 ft (from floodmark).

**DISCHARGE MEASUREMENTS**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

| Date | Discharge, in $ft^3/s$ | Gage height, in ft |
|---|---|---|
| Jan 23, 2012 | 2.34 | 24.54 |



Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 01652789, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01652789.2012.pdf

**01652789 INDIAN RUN AT BREN MAR DRIVE AT ALEXANDRIA, VA—Continued**

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2008 to current year.

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

Part 1 of 3

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than; E, estimated]

| Date | Sample start time | Medium name | Sample type | Barometric pressure, mm Hg (00025) | Tempera-ture, air, °C (00020) | Dissolved oxygen, water, unfiltered, mg/L (00300) | Dissolved oxygen, water, unfiltered, % saturation (00301) | pH, water, unfiltered, field, standard units (00400) |
|---|---|---|---|---|---|---|---|---|
| **10-11-2011** | **1545** | Surface water | Regular | 762 | 22.0 | 7.6 | 78 | 7.0 |
| **11-08-2011** | **1215** | Surface water | Regular | 765 | 20.5 | 10.6 | 95 | 7.3 |
| **12-13-2011** | **1415** | Surface water | Regular | 768 | 12.0 | 12.7 | 100 | 7.4 |
| **01-10-2012** | **0845** | Surface water | Regular | 761 | .0 | 12.3 | 94 | 7.2 |
| **02-14-2012** | **1415** | Surface water | Regular | 757 | 11.0 | 13.4 | 107 | 7.2 |
| **03-13-2012** | **1515** | Surface water | Regular | 759 | 27.0 | 10.7 | 101 | 7.3 |
| **04-10-2012** | **1415** | Surface water | Regular | 753 | 19.5 | 10.9 | 109 | 7.3 |
| **05-08-2012** | **1000** | Surface water | Blank | 757 | 22.0 | 8.5 | 88 | 7.3 |
| ***05-08-2012*** | ***1005*** | *QC sample - Artificial* | *Blank* | -- | -- | -- | -- | -- |
| **06-12-2012** | **0945** | Surface water | Replicate | 755 | 24.0 | 6.4 | 73 | 6.9 |
| ***06-12-2012*** | ***1000*** | *QC sample - Surface water* | *Replicate* | -- | -- | -- | -- | -- |
| **07-10-2012** | **1430** | Surface water | Regular | 759 | 33.0 | 7.2 | 90 | 7.2 |
| **08-14-2012** | **1030** | Surface water | Regular | 758 | 30.0 | 6.1 | 72 | 6.9 |
| **09-11-2012** | **1430** | Surface water | Regular | 766 | 28.0 | 7.1 | 77 | 7.1 |

**01652789 INDIAN RUN AT BREN MAR DRIVE AT ALEXANDRIA, VA—Continued**

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

Part 2 of 3

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than; E, estimated]

| Date | Sample start time | Specific conductance, water, unfiltered, µS/cm at 25°C (00095) | Temperature, water, °C (00010) | Turbidity, water, unfiltered, monochrome near infrared LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680) | Gage height, ft (00065) | Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623) | 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) |
|---|---|---|---|---|---|---|---|---|---|
| **10-11-2011** | **1545** | 377 | 16.3 | 1.8 | 24.49 | E .15 | 0.27 | < .100 | 0.717 |
| **11-08-2011** | **1215** | 423 | 10.6 | 3.5 | 24.47 | .84 | .83 | .284 | .797 |
| **12-13-2011** | **1415** | 330 | 5.6 | 1.2 | 24.50 | E .18 | E .19 | < .100 | 1.08 |
| **01-10-2012** | **0845** | 319 | 4.0 | 7.2 | 24.50 | .24 | .24 | E .054 | 1.03 |
| **02-14-2012** | **1415** | 420 | 5.5 | 1.6 | 24.50 | E .15 | E .16 | < .100 | 1.00 |
| **03-13-2012** | **1515** | 338 | 12.8 | 2.3 | 24.49 | < .20 | E .13 | < .100 | .712 |
| **04-10-2012** | **1415** | 342 | 14.7 | 1.6 | 24.45 | E .16 | .24 | < .100 | .489 |
| **05-08-2012** | **1000** | 380 | 16.7 | 2.4 | 24.32 | E .17 | 1.2 | < .100 | .529 |
| ***05-08-2012*** | ***1005*** | -- | -- | -- | -- | *E .20* | *E .19* | *< .100* | *E .013* |
| **06-12-2012** | **0945** | 295 | 21.5 | 25 | 24.48 | 1.1 | 1.6 | E .089 | .724 |
| ***06-12-2012*** | ***1000*** | -- | -- | -- | -- | *1.2* | *1.3* | *E .080* | *.706* |
| **07-10-2012** | **1430** | 190 | 26.3 | 1.9 | 24.39 | .39 | .45 | < .100 | .323 |
| **08-14-2012** | **1030** | 209 | 23.8 | 1.9 | 24.43 | .32 | .30 | E .044 | .216 |
| **09-11-2012** | **1430** | 202 | 19.8 | 3.2 | 24.38 | .28 | .28 | < .100 | .416 |

**01652789 INDIAN RUN AT BREN MAR DRIVE AT ALEXANDRIA, VA—Continued**

**WATER-QUALITY DATA**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**
Part 3 of 3

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than; E, estimated]

| Date | Sample start time | Orthophosphate, water, filtered, mg/L as P (00671) | Phosphorus, suspended sediment, total, milligrams per liter as phosphorus (00667) | Phosphorus, water, filtered, mg/L as P (00666) | Phosphorus, water, unfiltered, mg/L as P (00665) | Total nitrogen, suspended sediment, total, milligrams per liter (00601) | Total nitrogen, water, filtered, mg/L (00602) | Total nitrogen, water, unfiltered, mg/L (00600) | Suspended sediment concentration, mg/L (80154) |
|---|---|---|---|---|---|---|---|---|---|
| **10-11-2011** | **1545** | < .050 | < .030 | E .012 | < .030 | E .13 | 0.86 | 0.99 | 32 |
| **11-08-2011** | **1215** | E .038 | .030 | .037 | .067 | < .20 | 1.6 | 1.6 | 1 |
| **12-13-2011** | **1415** | < .050 | < .030 | < .030 | < .030 | < .20 | 1.3 | 1.3 | 2 |
| **01-10-2012** | **0845** | < .050 | E .022 | < .030 | E .022 | < .20 | 1.3 | 1.3 | 3 |
| **02-14-2012** | **1415** | < .050 | E .009 | < .030 | E .009 | < .20 | 1.1 | 1.2 | 1 |
| **03-13-2012** | **1515** | < .050 | E .007 | < .030 | E .008 | < .20 | .82 | .84 | 5 |
| **04-10-2012** | **1415** | < .050 | E .012 | < .030 | E .012 | < .20 | .65 | .73 | 2 |
| **05-08-2012** | **1000** | E .009 | E .015 | < .030 | E .021 | 1.1 | .70 | 1.8 | 2 |
| ***05-08-2012*** | ***1005*** | *< .050* | *< .030* | *< .030* | *E .008* | *< .20* | *.21* | *.21* | -- |
| **06-12-2012** | **0945** | < .050 | .038 | E .010 | .048 | .49 | 1.9 | 2.4 | 17 |
| ***06-12-2012*** | ***1000*** | *< .050* | *.038* | *E .010* | *.048* | *E .14* | *1.9* | *2.0* | *13* |
| **07-10-2012** | **1430** | < .050 | E .009 | E .018 | E .027 | < .20 | .71 | .78 | 5 |
| **08-14-2012** | **1030** | < .050 | E .015 | E .011 | E .026 | < .20 | .53 | .52 | 2 |
| **09-11-2012** | **1430** | E .012 | E .011 | E .015 | E .026 | < .20 | .69 | .70 | 9 |