

Internal Only**01589290 SCOTTS LEVEL BRANCH AT
ROCKDALE, MD**

Responsible Office
 U.S. Geological Survey
BALTIMORE
 8987 Yellow Brick Road
 Baltimore, MD 21237
 410-238-4200

Station Description

Most recent revision: 6/5/2007

Revised by: rwsaffer

LOCATION.--Lat 39°21'41.8", long 76°45'42.3" referenced to North American Datum of 1927, Baltimore County, MD, Hydrologic Unit 02060003, on left bank at upstream side of bridge on Rolling Road, .50 miles upstream from mouth, and .40 miles northeast of Liberty Road (state route 26).

ROAD LOG.--Station may be reached from intersection of Liberty Road U.S. Rt. 26 and Rolling Road

as follows:

Proceed northeast on Rolling Road for 0.4 mi to gage on left.

Park in parking lot just past gage.

See map for route to gage.

DRAINAGE AREA.--3.23 mi².

ESTABLISHMENT AND HISTORY.--October 2005. No other gage has been operated at this site by USGS.

GAGE.--450 ft above sea level from topographic map.

Steel shelter on 3" galvanized pipe attached to left upstream wingwall of bridge. Intake is 2" galvanized pipe with static tube, extending 1 ft streamward from left wingwall immediately upstream of concrete culvert control.

Pertinent elevations:

Gage Height (feet)

Top of instrument shelf	13.99
Point of Zero Flow (PZF)	0.56

CONTROL.--The channel (20 ft wide in the vicinity of the gage) is straight for 120 ft above the gage, and generally meanders in from the right above that. Immediately below the gage are three concrete 8 x 13 ft box culverts approximately 58.5 ft long. Below the culverts, the channel is straight for 80 ft, then bends gradually to the left. The streambed consists primarily of sandy gravel/cobble substrate, with some small rocks, and is subject to shifting during high flow events. Both banks are covered with brush and small/medium-size trees. Right bank subject to overflow at ~4 ft. Left bank overflows at ~8 ft. Flow control at all but most extreme high flows by concrete box culverts immediately below gage.

DISCHARGE MEASUREMENTS.--At low to medium flows, fair to good wading measurements should be obtainable ~20 to 40 ft above the gage. Improvement of x-section may also be appropriate at low flows. High flow measurements should be made from DSS bridge at Rolling Road at outflow of culverts.

POINT OF ZERO FLOW.--0.56 ft, measured at DS opening of culvert.

WINTER FLOW.--Stage-discharge relationship may be affected by ice at times during extensive and severe cold periods.

ACCURACY.--Good records should be obtained.

COOPERATION.--Baltimore County Department of Environmental Protection and Resource Management

REFERENCE MARKS.-- RM = Reference Mark RP = Reference Point BM = Bench Mark

RM-1 (May, 2007, basic) Top of bolt, set vertically, in right end of US bridge parapet. Elevation 13.146 ft, relative to OG staff.

RM-2 (May, 2007) Chiseled square on left end of US parapet of bridge, 2 ft streamward of gage. Elevation 13.567 ft, relative to OG staff.

RM-3 (May, 2007) Chiseled square on US street edge of sidewalk at left end of bridge and 4 ft DS from gage. Elevation 10.231 ft, relative to OG staff.

RP-1 (May, 2007) Left US corner of instrument shelf of shelter. Elevation 13.991 ft, relative to OG staff.

RP-2 (May, 2007) Nail set horizontally in OG backerboard. Elevation 4.465 ft, relative to OG staff.

See sketch for relative locations of vertical controls.

PHOTOGRAPHS.--See station files.

DESCRIPTION OF EQUIPMENT.--Sutron 8400 EDL (15 minute recording interval) with stage kit and Raven telemetry for real-time data. Vertical enamel staff gage (0.00 to 6.74 ft) attached to 2"x 8" pressure-treated lumber bolted to left upstream wingwall immediately streamward of pipe well.

A standard USGS crest-stage gage (2" galvanized pipe) is attached to same wingwall immediately landward of pipe well.

Pertinent elevations:

Gage Height (feet)

CSG base cap (top lip)

1.56

DATE OF LAST LEVELS.--

Last run: ; Next run: ; Frequency: 3 years

Levels have not been run as of yet.

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