

Internal Only**01589305 POWDER MILL RUN NEAR
LOCHEARN, MD**

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

Station Description

Most recent revision: 6/1/2007

Revised by: rwsaffer

LOCATION.--Lat 39°20'06.1", long 76°42'38.1" referenced to North American Datum of 1927, Baltimore County, MD, Hydrologic Unit 02060003, on left bank, 350 ft downstream from State Highway 26 (Liberty Road) culvert, at Baltimore County/Baltimore City line, in Powder Mill Park, 0.75 mi southeast of Lochearn, and 0.5 mi upstream from mouth.

ROAD LOG.--Station may be reached from Interstate 695 (Baltimore Beltway) interchange with State Highway 26 (Liberty Road) as follows: Proceed southeast on State Highway 26 (Liberty Road) for 2 miles to Flannery Lane. Continue another 200 ft to bridge. To park, drive over curb on right just beyond (east end of) bridge, but before Northern Parkway intersection stop light. Walk south on trail along left bank 350 ft to gage.

DRAINAGE AREA.--3.64 mi².

ESTABLISHMENT AND HISTORY.--November 4, 2005. No other gage has been operated at this site by USGS.

GAGE.--30" x 30" x 12" galvanized rainproof electrical box, with hinged front cover, on left bank. A gas purge line runs from the gage to the stream bank, contained in a combination 2" galvanized pipe and 1" flexible plastic tubing, and terminates at a standard 2" orifice fitting in the water at the left bank. Pertinent elevations: Gage Height (feet) Electrical box shelf *** ft

CONTROL.--Low-flow control is a gravel/cobble riffle about 250 ft downstream from the gage. Medium and high-flow is channel control.

DISCHARGE MEASUREMENTS.--Low-flow discharge can be measured about 300 ft downstream, 50 ft downstream from the control riffle or 25 ft above the control riffle. Medium flows can be made in the vicinity of the gage. High-flow measurements CANNOT be made at the Liberty Road culvert, so Gwynnsdale Avenue bridge offers the only other access. Backwater from Gwynns Falls may be encountered here.

FLOODS.--

POINT OF ZERO FLOW.--

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

REGULATION AND DIVERSIONS.--Some diurnal regulation from unknown sources upstream.

ACCURACY.--Good records should be obtained.

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

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

RM-1 (Dec., 2005) Bolt head set in concrete on top of OG support pipe. Elevation 4.079 ft. relative to OG staff. RM-2 (Dec., 2005) Bolt head set in concrete at orifice pier. Elevation 3.000 ft. relative to OG staff. RM-3 (Dec., 2005) Upper most corner of hex head bolt screwed into north side of northern 6" x 6" post supporting instrument box. Elevation 10.643 ft. relative to OG staff. RP-1 (Dec., 2005) Chiseled square in southeast corner of concrete parapet at left bank tributary outflow *** ft north of RM-3. Elevation 12.933 ft. relative to OG staff.

PHOTOGRAPHS.--See station files.

DESCRIPTION OF EQUIPMENT.--Design Analysis Water Log H-350/355 XL non-submersible pressure transducer and combination smart gas system, with instrument mounting panel (15 minute log interval). Data collection platform provides real-time transmission. System is powered with a solar panel and a 40 AMP backup battery. Vertical enamel staff gage (*** to 3.34 ft) attached to 2" x 8" pressure-treated lumber, which is bracketed to a 2" pipe concreted in the streambed and bank.

DATE OF LAST LEVELS.--

Last run: Dec 05, 2006; Next run: Dec 04, 2009; Frequency: 3 years

Station levels were run based on the OG. The EDL was found to be reading .01 ft high and was not reset. No datum corrections based on levels were applied to recorded values during the 2006 water year.

[back to top](#)

[U.S. Geological Survey Intranet](#)

URL: <http://simsmid.er.usgs.gov/field/sqlsims/>

Page Contact Information: GS-W_ADRDEV@usgs.gov

Page Last Modified: June 8, 2004