

ENVIRONMENTAL MONITOR WEEKLY REPORT  
WEEK ENDING **August 11, 2017**

**Distribution**

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**STATUS OF CONSTRUCTION**

Earthwork and drainage installation has continues behind Brookside Square, south of the Nashoba Brook. Powder Mill road is still closed and work to install the new culvert continues. This week, work has begun to install and grade the gravel base of the new trail. Installation began along Old Marlboro Road and continues south of Williams Road.

In narrow areas, the subgrade work has resulted in material being placed in contact with the erosion control. In some cases material was placed greater than half the height of the wattles, in other cases the wattles were damaged. As a corrective measure, the contractor had added additional straw wattles in some areas. The contractor was directed to install additional wattles wherever soil has been placed over half of the height of the wattle or to replace wattles where they have been damaged.

**SITE SCHEDULE**

Over the next two weeks, work at Powder Mill road, subgrading of the trail, and behind Brookside Square will continue.

**WEATHER**

The weather station at Hanscom Airfield records and publishes real-time precipitation data (USGS 01100568). According to the weather station, a single precipitation event which totaled to be greater than 0.25" occurred. On August 5, 2017, 0.33" of rain fell.

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**ORDER OF CONDITIONS**

**The following conditions were met during the reporting period:**

Condition 35: In order to ensure stockpiling of materials is kept outside of the 100' buffer zone during the work at Powder Mill Road, the staging area has been staked out and additional erosion control has been installed.

For work involving subgrade, materials were brought to the work zone and immediately installed. No stockpiling was observed.

Condition 39: Siltation barrier has been installed and consists of, at a minimum, a 12" straw wattle. Where it has been determined that additional measures were needed, some silt fence was added in limited areas.

The contractor is in the process of installing additional straw wattles as needed as a result of the subgrading operation.

Condition 47: No machinery was observed being stored in the buffer zone.

**PLANNED IMPACTED AREAS**

There is no resource areas planned to be impacted in the next two weeks.

**SWPPP REPORTS**

Copies of the reports are kept in the construction trailer. Copies are included in this report.

**GENERAL SUMMARY**

Throughout the remainder of the site, disturbed soils do not appear to be eroding and the in place erosion control is working effectively. The initial installation of the subgrade will require maintenance of some of the erosion control.

## **WEATHER REPORTS**

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## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Surface Water ▼

Geographic Area:

United States ▼

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# USGS 01100568 SHAWSHEEN RIVER AT HANSCOM FIELD NEAR BEDFORD, MA

## PROVISIONAL DATA SUBJECT TO REVISION

Available data for this site

Time-series: Daily data ▼

GO

Click to hidestation-specific text

**LOCATION**--Lat 42°28'01", long 71°16'22", Middlesex County, Hydrologic Unit 01070002, on left bank, 300 ft downstream from FAA hangar at Hanscom Field and 1.6 mi south of Bedford.

**DRAINAGE AREA**--2.13 mi<sup>2</sup>.

**PERIOD OF RECORD**--Discharge: October 1995 to current year.

Precipitation: October 1996 through September 1999, October 2002 to September 2004.

Water quality: water years 1995-2001.

**GAGE**--Data Collection Platform with satellite telemeter. Datum of gage is 115 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

**REMARKS**-- Discharge values are highly provisional and will change significantly after thorough check and review of data. Gage-height values are accurate. Precipitation gage re-established on site February 2013.

**COOPERATION BY**--U. S. Air Force

**The precipitation data for this station are temporary and will only be displayed for 120 days. Time series of 15-minute or cumulative daily values WILL NOT be available for retrieval following the 120-display period. Although the instrumentation is calibrated at least once/year, the temporary classification means that documented routine inspections and other quality assurance measures are not performed that would make the data acceptable for archival, retrieval, or future use in general scientific or interpretive studies.**

[Boating safety tips](#)

This station managed by the Northborough MA Field Office.

**Available Parameters**

**Period of Record**

- All 3 Available Parameters for this site
- 00010 Temperature, water(Min.,Max.,Mean) 2017-08-02 2017-08-10
- 00045 Precipitation(Sum) 1996-09-30 2017-08-10
- 00060 Discharge(Mean) 1995-10-01 2017-08-10

**Output format**

- Graph
- Graph w/ stats
- Graph w/ meas
- Graph w/ (up to 3) parms
- Table
- Tab-separated

Days (6) [Summary of all available data for this site](#)  
[Instantaneous-data availability statement](#)

GO

-- or --

**Begin date**

2017-08-05

**End date**

2017-08-11

<b>Daily Sum Precipitation, total, inches</b>	
<b>DATE</b>	<b>Aug 2017</b>
<b>05</b>	0.33 <sup>P</sup>
<b>06</b>	0.00 <sup>P</sup>
<b>07</b>	0.00 <sup>P</sup>
<b>08</b>	0.01 <sup>P</sup>
<b>09</b>	0.00 <sup>P</sup>
<b>10</b>	0.00 <sup>P</sup>
<b>COUNT</b>	<b>6</b>
<b>MAX</b>	<b>0.33</b>
<b>MIN</b>	<b>0.00</b>

**Explanation**

P	Provisional data subject to revision.
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**Title: USGS Surface-Water Daily Data for the Nation**

**URL: <https://waterdata.usgs.gov/nwis/dv?>**



Page Contact Information: [Massachusetts Water Data Support Team](#)

Page Last Modified: 2017-08-11 14:20:56 EDT

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## **SCHEDULE**

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# PHOTOGRAPHIC DOCUMENTATION

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# PHOTOGRAPH LOG

BRUCE FREEMAN RAIL TRAIL  
CONCORD, MA



EROSION CONTROL REPLACED WITH SILT FENCE AT PATH



REPAIRED E/C AT EDGE OF SUBGRADE. SIMILAR REPAIRS ARE NECESSARY  
ALONG SUBGRADED AREAS.