

ENVIRONMENTAL MONITOR WEEKLY REPORT
WEEK ENDING **SEPTEMBER 15, 2017**

Distribution

This report was sent to the following individuals via. e-mail:

Greg Kwon, *Resident Engineer* MADOT, Greg.Kwon@dot.state.ma.us
John Viens, *Site Superintendent*, D.W. White, jviens@dwwhite.com
Delia Kaye, *Natural Resources Director*, Town of Concord, dkaye@concordma.gov

The following individuals were also CC'd via e-mail:

Mark Cain, MADOT, mark.cain@dot.state.ma.us
Ann Roche, MADOT, ann.roche@dot.state.ma.us
Amy Lynch, MADOT, amy.lynch@dot.state.ma.us
Tim Kelley, *Project Manager*, D.W. White, tkelley@dwwhite.com
Rich Kirby, *Environmental Monitor Team member*, LEC, RKirby@lecenvironmental.com

STATUS OF CONSTRUCTION

Earthwork and drainage installation continues behind Brookside Square, south of the Nashoba Brook. The concrete caps on Bridge #C-19-038 are currently under construction. Invasive species management continues from Powder Mill Road to Old Marlboro Road. The culvert at Powder Mill Road is painted, and the side slopes have been hydroseeded and stabilized with jute netting.

Any damage to erosion control was observed to be identified and scheduled to be replaced if necessary.

SITE SCHEDULE

Over the next two weeks, work at Powder Mill road will involve stabilization (i.e. final loam and seeding) of side slopes and the painting and sealing of finished concrete surfaces. Initial grading of the pathway to Bruce Freeman Rail Trail and Powder Mill Road will continue. Erosion control will be refreshed as needed. Invasive species management will be conducted in select areas throughout the site in accordance with the invasive species management plan. In the coming weeks, drainage structures in the vicinity of town will be installed. The culvert at station 81+10 will be finalized.

Lastly the construction of the bridge over the Assabet River (structure #C-1903) will begin. This will involve the construction of a poured in place concrete cap on the existing stone abutment, then the placement of a prefabricated steel truss bridge on the newly poured caps.

ENVIRONMENTAL MONITOR WEEKLY REPORT
WEEK ENDING **SEPTEMBER 15, 2017**

INVASIVE MANAGEMENT

The invasive management contractor was observed treating Bittersweet vine by cutting and dobbling north of Williams road.

OBSERVATIONS

During this week's inspection, there were a few observations that were brought to the attention of the contractor:

- The silt fence by the bridge over the Nashoba Brook was undermined. The contractor was asked to repair this location and place a material such as crushed stone to prevent future erosion.
- Some excess concrete was washed out within a regulated area, adjacent to recent concrete work for the Assabet River bridge. The contractor was asked to provide a concrete washout area outside of regulated areas.
- A portable toilet was observed within a regulated area, north of the Assabet River. The contractor was asked to have the toilet moved closer to Main Street, next time the toilet is maintained in the next few days.
- Some of the erosion control was damaged behind Brookside Square. It was brought to the attention of the contractor and the repair was already scheduled to be repaired.

No erosion or concrete wash-out was observed within any resource area. However, making the suggested corrections is important to ensure this continues to be the case.

WEATHER

The weather station at Hanscom Airfield records and publishes real-time precipitation data (USGS 01100568). According to the weather station, no precipitation events which totaled to be greater than 0.25" occurred.

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 36: For the paving operation, the smallest equipment necessary to perform the work was used.

ENVIRONMENTAL MONITOR WEEKLY REPORT
WEEK ENDING **SEPTEMBER 15, 2017**

Condition 37: The culvert at station 81+10 has been installed prior to September 30th. The headwalls have yet to be installed.

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.

Erosion control continues to be monitored and repaired as necessary.

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

SWPPP REPORTS

Copies of the reports are kept in the construction trailer. Copies are included as an attachment to this report.

GENERAL SUMMARY

Although no sediment was observed in resource areas, the contractor has a few corrective measures to implement. As work at Powder Mill Road comes to completion, efforts to install the bridge over the Assabet River will begin.

SWPPP REPORTS

General Information (see reverse for instructions)			
Name of Project	Bruce Freeman Rail Trail	CGP Tracking No.	MAR10008B
Inspector Name, Title & Contact Information	John Viens- Supt. D. W. White Construction, Inc., 867 Middle Rd. Acushnet, MA 02743, jviens@dwwhite.com, (774) 320-5830		
Present Phase of Construction	GABRIEL PATH - DRAINAGE WORK		
Inspection Location (if multiple inspections are required, specify location where this inspection is being conducted)	ENTIRE SITE		
Inspection Frequency (Note: you may be subject to different inspection frequencies in different areas of the site. Check all that apply.) Standard Frequency: ☒ Weekly ☐ Every 14 days and within 24 hours of a 0.25" rain Increased Frequency: ☒ Every 7 days and within 24 hours of a 0.25" rain (for areas of sites discharging to sediment or nutrient-impaired waters or to waters designated as Tier 2, Tier 2.5, or Tier 3) Reduced Frequency: - ☐ Once per month (for stabilized areas) - ☐ Once per month and within 24 hours of a 0.25" rain (for arid, semi-arid, or drought-stricken areas during seasonally dry periods or during drought) - ☐ Once per month (for frozen conditions where earth-disturbing activities are being conducted)			
Was this inspection triggered by a 0.25" storm event? ☐ Yes ☒ No If yes, how did you determine whether a 0.25" storm event has occurred? ☐ Rain gauge on site ☐ Weather station representative of site. Specify weather station source: Total rainfall amount that triggered the inspection (in inches):			
Unsafe Conditions for Inspection Did you determine that any portion of your site was unsafe for inspection per CGP Part 4.1.5? ☐ Yes ☐ No If "yes", complete the following: - Describe the conditions that prevented you from conducting the inspection in this location: - Location(s) where conditions were found:			

Condition and Effectiveness of Erosion, and Sediment (E&S) Controls (GGP Part 2.1)				
Type/Location of E&S Control [Add an additional sheet if necessary]	Repairs or Other Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	Notes
1. <i>POWDER MILL RD. UNLWDRT</i>	☐ Yes ☒ No	☐ Yes ☒ No		<i>GOING TO INSTALL JUTE MATTING TO PREVENT ANY WASH OUTS</i>
2.	☐ Yes ☐ No	☐ Yes ☐ No		
3.	☐ Yes ☐ No	☐ Yes ☐ No		
4.	☐ Yes ☐ No	☐ Yes ☐ No		
5.	☐ Yes ☐ No	☐ Yes ☐ No		
6.	☐ Yes ☐ No	☐ Yes ☐ No		
7.	☐ Yes ☐ No	☐ Yes ☐ No		
8.	☐ Yes ☐ No	☐ Yes ☐ No		
9.	☐ Yes ☐ No	☐ Yes ☐ No		
10.	☐ Yes ☐ No	☐ Yes ☐ No		

* Note: The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition and requires repairs if controls are not operating as intended. Corrective actions are triggered only for specific, more serious conditions, which include: 1) A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3; 2) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 3) One of the prohibited discharges in Part 2.3.1 is occurring or has occurred; or 4) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.2. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at www.epa.gov/nrpdes/stormwater/swppp. See Part 5 of the permit for more information.

Condition and Effectiveness of Pollution Prevention (P2) Practices (CCP Part 2.3) (see reverse for instructions)				
Type/Location of P2 Practices [Add an additional sheet if necessary]	Repairs or Other Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	Notes
1. N/A	☐ Yes ☐ No	☐ Yes ☐ No	N/A	N/A
2.	☐ Yes ☐ No	☐ Yes ☐ No		
3.	☐ Yes ☐ No	☐ Yes ☐ No		
4.	☐ Yes ☐ No	☐ Yes ☐ No		
5.	☐ Yes ☐ No	☐ Yes ☐ No		
6.	☐ Yes ☐ No	☐ Yes ☐ No		
7.	☐ Yes ☐ No	☐ Yes ☐ No		
8.	☐ Yes ☐ No	☐ Yes ☐ No		
9.	☐ Yes ☐ No	☐ Yes ☐ No		
10.	☐ Yes ☐ No	☐ Yes ☐ No		

* **Note:** The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition and requires repairs if controls are not operating as intended. Corrective actions are triggered only for specific, more serious conditions, which include: 1) A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3; 2) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 3) One of the prohibited discharges in Part 2.3.1 is occurring or has occurred; or 4) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.2. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at www.epa.gov/npdes/stormwater/swppp. See Part 5 of the permit for more information.

Stabilization of Exposed Soil (GGP Part 2.2) (see reverse for instructions)			
Stabilization Area [Add an additional sheet if necessary]	Stabilization Method	Have You Initiated Stabilization?	Notes
1. <i>CULVERT</i>	<i>EROSION FREE MATTING</i>	☒ YES If yes, provide date: ☐ NO	
2.		☐ YES If yes, provide date: ☐ NO	
3.		☐ YES If yes, provide date: ☐ NO	
4.		☐ YES If yes, provide date: ☐ NO	
5.		☐ YES If yes, provide date: ☐ NO	

Description of Discharges (GGP Part 4.1, 6.6) (see reverse for instructions)	
Was a stormwater discharge or other discharge occurring from any part of your site at the time of the inspection?	☐ Yes ☐ No
Discharge Location [Add an additional sheet if necessary]	Observations
1. <i>N/A</i>	Describe the discharge: At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? ☐ Yes ☐ No If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:
2. <i>N/A</i>	Describe the discharge: At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? ☐ Yes ☐ No If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:

Contractor or Subcontractor Certification and Signature
(see reverse for instructions)

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Contractor or Subcontractor: 

Date:

Printed Name and Affiliation: Dan Viteri DWV@BTE CORP.

9/14/12

Certification and Signature by Permittee
(see reverse for instructions)

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Permittee or

"Duly Authorized Representative": _____

Date: _____

Printed Name and Affiliation: _____

WEATHER REPORTS



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Surface Water ▼

Geographic Area:

United States ▼

GO

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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 ▼

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Click to hide station-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 mi².

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)
- ☒ 00045 Precipitation(Sum)
- ☐ 00060 Discharge(Mean)

2017-08-02 2017-09-18

1996-09-30 2017-09-18

1995-10-01 2017-09-18

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](#)

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-- or --

Begin date

2017-09-09

End date

2017-09-15

Daily Sum Precipitation, total, inches

DATE	Sep 2017
09	0.00 ^P
10	0.00 ^P
11	0.00 ^P
12	0.00 ^P
13	0.00 ^P
14	0.00 ^P
15	0.11 ^P
COUNT	7
MAX	0.11
MIN	0.00

Explanation

P	Provisional data subject to revision.
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SCHEDULE & PHASE I PLANS

PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPH LOG

SEPTEMBER 15, 2017



EDGE OF WORK AREA WITH EROSION CONTROL



UNDERMINED SILT FENCE



PHOTOGRAPH LOG

SEPTEMBER 15, 2017



IMPROPER EXCESS CONCRETE WASHOUT



PORTABLE WATER SPRAY FOR DUST CONTROL



PHOTOGRAPH LOG

SEPTEMBER 15, 2017



AVED AREA WITH TREATED INVASIVES



JUTE NETTING AT POWDER MILL RD