



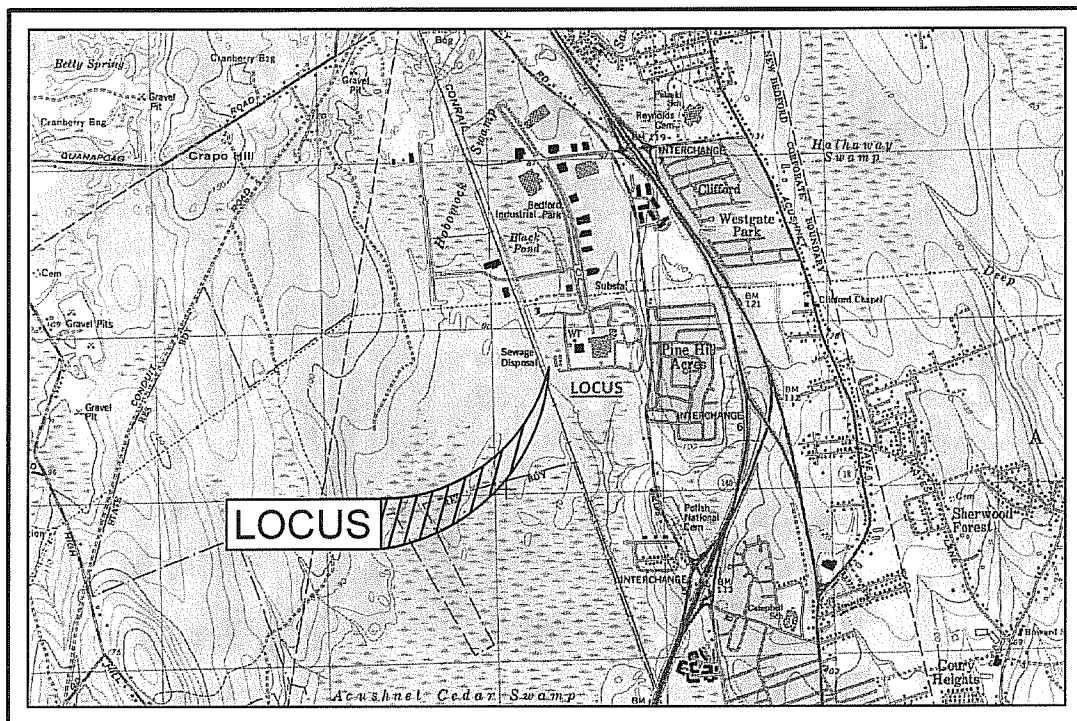
ENGINEERING A BETTER TOMORROW

ENGINEERING | SITE WORK | LAND SURVEYING

STORMWATER REPORT

SITE PLAN

ASSESSORS MAP 134 - LOT 5
100 DUCHAINE BLVD.
NEW BEDFORD, MASSACHUSETTS



PREPARED FOR:

MIH1, LLC
401 COUNTY STREET
NEW BEDFORD, MA 02740

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STORMWATER MANAGEMENT REPORT AND HYDROLOGIC ANALYSIS

Proposed Site Clearing 100 Duchaine Blvd., New Bedford, Massachusetts

Project Summary

The subject property encompasses approximately 8.09 acres of forested land located on the westerly side of Duchaine Boulevard in New Bedford, Massachusetts. The site is currently undeveloped. It is bounded on the west by railroad tracks and on the east by commercial property. The topography has very minimal sloping, with the highest elevation 81 to an elevation of 77 near the rear of the lot.

The applicant is seeking permission to clear cut the parcel for temporary stockpile of material. Stormwater associated with the development will be controlled by a detention basin.

Methodology

Drainage computations were performed using the Natural Resources Conservation Services (NRCS) TR-20 method and HydroCAD[®] Drainage Calculation Software. Sketches of the existing and proposed watershed areas, HydroCAD[®] Report, and copies of the calculation sheets are included as appendices to this report.

Existing Conditions

The soils underlying the site are identified in the Soil Survey of Bristol County (*see Appendix G*). The Soils underlying the site consist of Scarborough mucky fine sandy loam, 0 to 3 percent slopes and Sudbury fine sandy loam, 0 to 3 percent slopes. Soil information was taken from United States Department of Agriculture, Natural Resources Conservation Service, Web *Soil Survey of Bristol County, Massachusetts*.

The Scarborough soil has the following properties:

- Permeability: Very Poorly drained
- Available water capacity: Low
- Depth to groundwater: 0-2 inches
- Hydrologic Soil Group: HSG-D

The Scarborough soil has the following properties:

- Permeability: Moderately well drained
- Available water capacity: Low

- Depth to groundwater: 18-36 inches
- Hydrologic Soil Group: HSG-B

Stormwater Management Overview

Existing Conditions:

Currently, the project area consists of a wooded undeveloped area in which stormwater sheet flows in the bordering vegetated wetland area.

Proposed Conditions:

Under proposed conditions, the stormwater will sheet flow to a detention basin. This basin will handle all storms up to a 100 year storm event. During a 100 year storm event stormwater will overflow the two broad crested weirs.

Stormwater Management Standards

Standard #1: Untreated Discharges

Under proposed conditions, there will be no new untreated discharges or erosion in wetland areas.

To improve existing conditions, we have proposed a rip rap pad at the pipe outlet to help control velocity and future erosion at the outlet. All stormwater discharges have been held below erodible velocities.

Standard #2: Peak Rate Control

The design of the stormwater system was designed for the post-development conditions to handle all storms' peak discharges and runoff volume to include the 2, 10 and 100-year storm events. The site drainage system was designed in consideration of the structural standards and techniques of the Best Management Practices (BMP) and Low Impact Development (LID) outlined in the "Stormwater Management Handbook".

The results of site drainage calculations are presented in the following Tables. The results are based upon evaluation of Pre-development conditions and the design of proposed surface and subsurface drainage systems for the Post-development condition. These results show the Post-Development offsite volume and runoff rates are reduced to less than the Pre-development conditions, thus meeting the BMP guidelines for this site development.

Table 1 - Comparison of Pre- versus Post-Development Offsite Runoff Rate, cfs			
Frequency Storm	2-Year	10-Year	100-Year
Pre-Development	0.46	2.11	5.92
Post-Development	0.28	0.91	5.79

Table 2 - Comparison of Pre- versus Post-Development Offsite Runoff Volume, af			
Frequency Storm	2-Year	10-Year	100-Year
Pre-Development	0.080	0.219	0.517
Post-Development	0.030	0.074	0.410

Groundwater recharge is a factor in the design of the subsurface drainage system. Table-3 below presents the minimum recharge required and the proposed recharge of stormwater based upon the BMP methods of the "Stormwater Management Handbook". The proposed recharge quantities meet or exceed the required minimum recharges.

Standard #3: Recharge to Groundwater

Recharge facilities are proposed and sized according to the Stormwater Management Standards.

Table 3 - Drainage Recharge Calculation (Required Recharge = 0.35" Total Site Runoff from Impervious Areas for Class-B Soils)	
Required Recharge	Proposed Recharge
0 sf x 0.35" = 0 CF	10,846 CF

Standard #4: Total Suspended Solids Removal/ Water Quality

In accordance with the guidelines of the Stormwater Management Policy, the Total Suspended Solids (TSS) Removal was calculated to be 80% thus meeting the minimum 80% requirement.

Standard #5: Higher Potential Pollutant Loads

The uses associated with this project are not classified to be land uses with higher potential pollutant loads; therefore, Standard #5 is not applicable to this project.

Standard #6: Critical Areas

This project is not located in a critical area.

Standard #7: Re-development Standards

This project is considered new construction.

Standard #8: Construction Period Pollution Prevention Plan

We will prepare a Construction Period Pollution Prevention Plan in accordance with the regulations prior to start of construction.

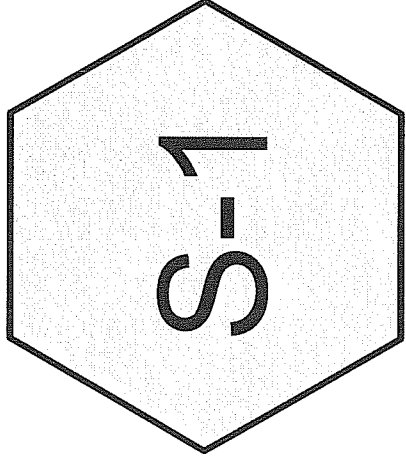
Standard #9: Operation and Maintenance

A long-term operation and maintenance plan will be prepared to ensure that stormwater management systems function as designed.

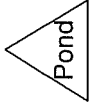
Standard #10: Illicit Discharge Statement

Under this proposal, we are not proposing any illicit discharges as defined in the Stormwater Management Regulations.

HYDROLOGIC CALCULATIONS & WATERSHED PLANS



Tributary to BVW



Drainage Diagram for 16357PRE

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Summary for Subcatchment S-1: Tributary to BVW

Runoff = 0.46 cfs @ 12.34 hrs, Volume= 0.080 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs

Type III 24-hr 2-yr Rainfall=3.40"

Area (sf)	CN	Description
4,500	85	Gravel roads, HSG B
117,300	55	Woods, Good, HSG B
121,800	56	Weighted Average
121,800		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.65		Sheet Flow, Sheet Flow
					Smooth surfaces n= 0.011 P2= 3.40"
10.0	315	0.0110	0.52		Shallow Concentrated Flow, Shallow Concentrated Flow
					Woodland Kv= 5.0 fps
10.2	323	Total			

Summary for Subcatchment S-1: Tributary to BVW

Runoff = 2.11 cfs @ 12.17 hrs, Volume= 0.219 af, Depth= 0.94"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-yr Rainfall=4.80"

Area (sf)	CN	Description
4,500	85	Gravel roads, HSG B
117,300	55	Woods, Good, HSG B
121,800	56	Weighted Average
121,800		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.65		Sheet Flow, Sheet Flow
					Smooth surfaces n= 0.011 P2= 3.40"
10.0	315	0.0110	0.52		Shallow Concentrated Flow, Shallow Concentrated Flow
					Woodland Kv= 5.0 fps
10.2	323	Total			

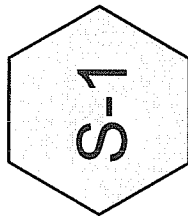
Summary for Subcatchment S-1: Tributary to BVW

Runoff = 5.92 cfs @ 12.15 hrs, Volume= 0.517 af, Depth= 2.22"

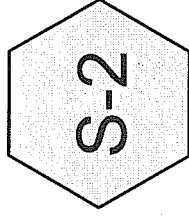
Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=7.00"

Area (sf)	CN	Description
4,500	85	Gravel roads, HSG B
117,300	55	Woods, Good, HSG B
121,800	56	Weighted Average
121,800		Pervious Area

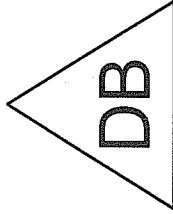
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.65		Sheet Flow, Sheet Flow
					Smooth surfaces n= 0.011 P2= 3.40"
10.0	315	0.0110	0.52		Shallow Concentrated Flow, Shallow Concentrated Flow
					Woodland Kv= 5.0 fps
10.2	323	Total			



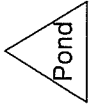
Tributary to Basin



Tributary to BVW



Detention Basin



Drainage Diagram for 16357POST

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Summary for Subcatchment S-1: Tributary to Basin

Runoff = 4.18 cfs @ 12.10 hrs, Volume= 0.304 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-yr Rainfall=3.40"

Area (sf)	CN	Description
3,650	85	Gravel roads, HSG B
* 15,798	98	Detention Pond
63,900	82	Dirt roads, HSG B
6,052	55	Woods, Good, HSG B
89,400	83	Weighted Average
73,602		Pervious Area
15,798		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.65		Sheet Flow, Sheet Flow
					Smooth surfaces n= 0.011 P2= 3.40"
6.4	200	0.0110	0.52		Shallow Concentrated Flow, Shallow Concentrated Flow
					Woodland Kv= 5.0 fps
6.6	208	Total			

Summary for Subcatchment S-2: Tributary to BWV

Runoff = 0.28 cfs @ 12.12 hrs, Volume= 0.030 af, Depth= 0.49"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 2-yr Rainfall=3.40"

Area (sf)	CN	Description
850	85	Gravel roads, HSG B
5,100	82	Dirt roads, HSG B
26,450	55	Woods, Good, HSG B
32,400	60	Weighted Average
32,400		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, Minimum

Summary for Pond DB: Detention Basin

Inflow Area = 2.052 ac, 17.67% Impervious, Inflow Depth = 1.77" for 2-yr event
 Inflow = 4.18 cfs @ 12.10 hrs, Volume= 0.304 af
 Outflow = 0.29 cfs @ 13.94 hrs, Volume= 0.304 af, Atten= 93%, Lag= 110.3 min
 Discarded = 0.29 cfs @ 13.94 hrs, Volume= 0.304 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

16357POST

Type III 24-hr 2-yr Rainfall=3.40"

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 76.51' @ 13.94 hrs Surf.Area= 12,322 sf Storage= 5,831 cf

Plug-Flow detention time=(not calculated: outflow precedes inflow)

Center-of-Mass det. time= 198.0 min (1,028.7 - 830.7)

Volume	Invert	Avail.Storage	Storage Description
#1	76.00'	19,745 cf	Custom Stage Data (Prismatic) listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
76.00	10,538	0	0
77.00	14,035	12,287	12,287
77.50	15,798	7,458	19,745

Device	Routing	Invert	Outlet Devices
#1	Discarded	76.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	77.00'	10.0' long x 10.0' breadth Broad-Crested Rectangular Weir X 2.00
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60
			Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Discarded OutFlow Max=0.29 cfs @ 13.94 hrs HW=76.51' (Free Discharge)↑ **1=Exfiltration** (Exfiltration Controls 0.29 cfs)**Primary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=76.00' (Free Discharge)↑ **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Subcatchment S-1: Tributary to Basin

Runoff = 7.03 cfs @ 12.09 hrs, Volume= 0.512 af, Depth= 2.99"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-yr Rainfall=4.80"

Area (sf)	CN	Description
3,650	85	Gravel roads, HSG B
* 15,798	98	Detention Pond
63,900	82	Dirt roads, HSG B
6,052	55	Woods, Good, HSG B
89,400	83	Weighted Average
73,602		Pervious Area
15,798		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.65		Sheet Flow, Sheet Flow Smooth surfaces n= 0.011 P2= 3.40"
6.4	200	0.0110	0.52		Shallow Concentrated Flow, Shallow Concentrated Flow Woodland Kv= 5.0 fps
6.6	208	Total			

Summary for Subcatchment S-2: Tributary to BWV

Runoff = 0.91 cfs @ 12.10 hrs, Volume= 0.074 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 10-yr Rainfall=4.80"

Area (sf)	CN	Description
850	85	Gravel roads, HSG B
5,100	82	Dirt roads, HSG B
26,450	55	Woods, Good, HSG B
32,400	60	Weighted Average
32,400		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, Minimum

Summary for Pond DB: Detention Basin

Inflow Area = 2.052 ac, 17.67% Impervious, Inflow Depth = 2.99" for 10-yr event
 Inflow = 7.03 cfs @ 12.09 hrs, Volume= 0.512 af
 Outflow = 0.33 cfs @ 15.07 hrs, Volume= 0.503 af, Atten= 95%, Lag= 178.6 min
 Discarded = 0.33 cfs @ 15.07 hrs, Volume= 0.503 af
 Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

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Type III 24-hr 10-yr Rainfall=4.80"

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs / 3
 Peak Elev= 76.96' @ 15.07 hrs Surf.Area= 13,895 sf Storage= 11,727 cf

Plug-Flow detention time=(not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 356.9 min (1,172.5 - 815.7)

Volume	Invert	Avail.Storage	Storage Description
#1	76.00'	19,745 cf	Custom Stage Data (Prismatic) listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
76.00	10,538	0	0
77.00	14,035	12,287	12,287
77.50	15,798	7,458	19,745

Device	Routing	Invert	Outlet Devices
#1	Discarded	76.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	77.00'	10.0' long x 10.0' breadth Broad-Crested Rectangular Weir X 2.00
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60
			Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Discarded OutFlow Max=0.33 cfs @ 15.07 hrs HW=76.96' (Free Discharge)

↑ **1=Exfiltration** (Exfiltration Controls 0.33 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=76.00' (Free Discharge)

↑ **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Subcatchment S-1: Tributary to Basin

Runoff = 11.62 cfs @ 12.09 hrs, Volume= 0.860 af, Depth= 5.03"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=7.00"

Area (sf)	CN	Description
3,650	85	Gravel roads, HSG B
* 15,798	98	Detention Pond
63,900	82	Dirt roads, HSG B
6,052	55	Woods, Good, HSG B
89,400	83	Weighted Average
73,602		Pervious Area
15,798		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.65		Sheet Flow, Sheet Flow
					Smooth surfaces n= 0.011 P2= 3.40"
6.4	200	0.0110	0.52		Shallow Concentrated Flow, Shallow Concentrated Flow
					Woodland Kv= 5.0 fps
6.6	208	Total			

Summary for Subcatchment S-2: Tributary to BWV

Runoff = 2.20 cfs @ 12.09 hrs, Volume= 0.161 af, Depth= 2.60"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 100-yr Rainfall=7.00"

Area (sf)	CN	Description
850	85	Gravel roads, HSG B
5,100	82	Dirt roads, HSG B
26,450	55	Woods, Good, HSG B
32,400	60	Weighted Average
32,400		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, Minimum

Summary for Pond DB: Detention Basin

Inflow Area = 2.052 ac, 17.67% Impervious, Inflow Depth = 5.03" for 100-yr event
 Inflow = 11.62 cfs @ 12.09 hrs, Volume= 0.860 af
 Outflow = 3.93 cfs @ 12.39 hrs, Volume= 0.803 af, Atten= 66%, Lag= 17.9 min
 Discarded = 0.35 cfs @ 12.39 hrs, Volume= 0.553 af
 Primary = 3.59 cfs @ 12.39 hrs, Volume= 0.249 af

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Type III 24-hr 100-yr Rainfall=7.00"

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Routing by Dyn-Stor-Ind method, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs / 3

Peak Elev= 77.17' @ 12.39 hrs Surf.Area= 14,646 sf Storage= 14,770 cf

Plug-Flow detention time=(not calculated: outflow precedes inflow)

Center-of-Mass det. time=230.1 min (1,031.2 - 801.0)

Volume	Invert	Avail.Storage	Storage Description
#1	76.00'	19,745 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
76.00	10,538	0	0
77.00	14,035	12,287	12,287
77.50	15,798	7,458	19,745

Device	Routing	Invert	Outlet Devices
#1	Discarded	76.00'	1.020 in/hr Exfiltration over Surface area
#2	Primary	77.00'	10.0' long x 10.0' breadth Broad-Crested Rectangular Weir X 2.00
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60
			Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Discarded OutFlow Max=0.35 cfs @ 12.39 hrs HW=77.17' (Free Discharge)↑**1=Exfiltration** (Exfiltration Controls 0.35 cfs)**Primary OutFlow** Max=3.59 cfs @ 12.39 hrs HW=77.17' (Free Discharge)↑**2=Broad-Crested Rectangular Weir** (Weir Controls 3.59 cfs @ 1.04 fps)

NRCS SOIL MAP

Soil Map—Bristol County, Massachusetts, Southern Part



Map Scale: 1:1,700 if printed on A portrait (8.5" x 11") sheet.

0 25 50 100 150 Meters

0 50 100 200 300 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84



**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

4/20/2016
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MAP LEGEND

Area of Interest (AOI)		Soils	
Area of Interest (AOI)		Soil Map Unit Polygons	
		Soil Map Unit Lines	
		Soil Map Unit Points	
Special Point Features		Water Features	
Blowout		Streams and Canals	
Borrow Pit		Transportation	
Clay Spot		+++	
Closed Depression		Rails	
Gravel Pit		Interstate Highways	
Gravelly Spot		US Routes	
Landfill		Major Roads	
Lava Flow		Local Roads	
Marsh or swamp		Background	
Mine or Quarry		Aerial Photography	
Miscellaneous Water			
Perennial Water			
Rock Outcrop			
Saline Spot			
Sandy Spot			
Severely Eroded Spot			
Sinkhole			
Slide or Slip			
Sodic Spot			

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bristol County, Massachusetts, Southern Part
Survey Area Data: Version 9, Sep 28, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 30, 2011—Oct 8, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Bristol County, Massachusetts, Southern Part (MA603)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
38A	Pipestone loamy sand, 0 to 3 percent slopes	0.0	0.0%
39A	Scarboro mucky fine sandy loam, 0 to 3 percent slopes	6.2	58.1%
260A	Sudbury fine sandy loam, 0 to 3 percent slopes	2.2	20.9%
602	Urban land	2.2	20.9%
Totals for Area of Interest		10.6	100.0%

