

Office Use Only

Permit Number _____
 Date issued _____
 Expiration Date _____
 File Number _____

**Permit Application for Part 91
 Soil Erosion and Sedimentation Control
 Chapter 154 Codified Ord. & Fee Schedule
 Chapter 157 Codified Ord. Zoning Ord.
 Single Lot Grading Permit**

Office Use Only

Fee _____
 Cash/Check _____
 Received By _____

1. Applicant (Please check if applicant is the landowner or designated agent)

Name <input type="checkbox"/> Landowner <input type="checkbox"/> Designated Agent			
Address		Email	
City	State	Zip	Telephone

2. Location

Section	Town 7N	Range 7E	Township N/A	City/Village City of Burton	County Genesee
Subdivision	Lot No.	Tax ID Number		Street Address	

3. Proposed Earth Change

Project Type: Residential Industrial Multi-Family Land Balancing Commercial

Describe Project:		Size of earth change (acres or sq. ft.)
Name of and distance to nearest lake, stream, or drain	Date of start	Date of completion

4. Soil Erosion and sedimentation Control Plan (Refer to Rule 323.1703)

Note: 2 complete sets of plans must be attached for other than single family residential homes.

Estimated cost of erosion and sediment control	Plan preparers name and telephone number
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5. Parties Responsible for earth change

Name of landowner (if not provided above)		Address		
City	State	Zip	Telephone + area code	
Name of individual "On Site" responsible for earth change		Company name		
Address	City	State	Zip	Telephone

6. Performance Deposit (If required by the permitting agency)

Amount Required \$ _____	<input type="checkbox"/> Cash	<input type="checkbox"/> Certified Check	<input type="checkbox"/> Irrevocable Letter of Credit	<input type="checkbox"/> Surety Bond
Name of Surety Company				
Address	City	State	Zip	Telephone

7. At the time of restoration, if the contractor will not be completing the site, this permit must be transferred by the responsible party with payment of a transfer fee.

I (we) affirm that the above information is accurate and that I (we) will conduct the above described earth change in accordance with Part 91, Soil Erosion and Sedimentation Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, applicable local ordinances, and the documents accompanying this application.		
Landowners Signature	Print Name	Date
Designated Agent's Signature	Print Name	Date

Designated Agent must have a written statement from the landowner authorizing him/her to secure a permit in the landowners name.

City of Burton

Soil Erosion and Sedimentation Control Plan Submittal Checklist

The following information shall be provided with all SESC plans submitted to this office:

1. ____ Legal description and/or survey of site.

2. ____ A SESC site plan (scale of not more than 1" =200', or scale agreeable with the director) of the property with the items below clearly labeled: (Residential submitted on letter or legal paper)
 - A map or maps at a scale of not more than 200 feet to the inch.
 - Legal description of the property.
 - Site location sketch.
 - Proximity to lakes and streams.
 - Predominant land features.
 - Contour intervals or slope description.
 - Soils survey or written description of soils types.
 - Physical limits of earth change.
 - Location of existing and proposed on-site drainage and dewatering facilities.
 - Timing and sequence of each proposed earth change.
 - Location and description for installing and removing proposed temporary SESC measures, including the instructions for install which may be provided by the City of Burton if unable to provide them.
 - A description and location of all proposed permanent SESC measures, including a program proposal for continued maintenance of all permanent soil erosion control facilities which remain after project completion, including the designation of the person responsible for the maintenance. Maintenance responsibilities shall become part of any sales or exchange agreement for the land on which the permanent soil erosion control measures are located

3. ____ A completed Soil Erosion and Sedimentation Control application.

4. ____ A completed construction and maintenance schedule (included in packet)

5. ____ A copy of any state require permits for completing earthwork within the boundaries of a state regulated wetland and/or floodplain.

I hereby certify that the above information has been provided with the submitted plans.

Name of Party Preparing Checklist: _____

Signature: _____ Date: _____

OWNER ACKNOWLEDGMENT:

I, _____ am the owner of property
known as: _____ located in the City of Burton. I give permission
to _____ to make an application as my designated agent for
Soil Erosion and Sedimentation Control permit to the City of Burton on behalf of my property.

If I need to be contacted for any reason please contact me at:

Owner Name: _____

Address: _____

City: _____

Phone: _____

Email: _____

SIGNATURE: _____

DATE: _____

TABLE 4. EXAMPLE SEEDING MIXTURES FOR INTRODUCED SPECIES

Mix #	Common Name	Natural Drainage Class Suitability	Suitable Uses	Rate Ld/ Acre
1	Creeping red fescue	WD, MWD	A, C/F, WW	40
2	Creeping red fescue White clover, red clover, or alfalfa	WD, MWD	C/F	30 4
3	Smooth bromegrass Creeping red fescue White clover, red clover, of alfalfa	WD, MWD	C/F	15 15 4
4	Smooth bromegrass alfalfa	WD, MWD	C/F, WW	30 4
5	Smooth bromegrass Creeping red fescue	WD, MWD	C/F, WW	20 20
6	Kentucky bluegrass Creeping red fescue	MWD	A, C/F	20 20
7	Creeping red fescue Tall fescue	MWD	C/F, WW	20 20
8	Creeping red fescue Creeping bentgrass	MWD, SPD	A, C/F	40 1
9	Smooth bromegrass Tall fescue	MWD, SPD	C/F, WW	20 20
10	Smooth bromegrass Timothy Red clover	MWD, SPD	C/F, WW	15 4 4
11	Smooth bromegrass Creeping red fescue Kentucky bluegrass Birdfoot trefoil	MWD, SPD	C/F, WW	10 10 10 4
12	Tall fescue Creeping bentgrass	SPD, PD	C/F, WW	40 1
13	Tall fescue Alslike clover or birdfoot trefoil	SPD, PD	C/F, WW	20 8
14	Redtop Timothy Alsike clover or birdfoot trefoil	SPD, PD	C/F	2 5 2
15	Tall fescue Smooth bromegrass Creeping bentgrass Birdfoot trefoil	SPD, PD	C/F, WW	12 12 1 6
16	Tall fescue Redtop	SPD, PD, VPD	C/F, WW	20 2

Table 4 continued on the following page: notes are found at the bottom of the table

TABLE 4. EXAMPLE SEEDING MIXTURES FOR INTRODUCED SPECIES (CONTINUED)

17	Redtop Alsike clover or birdfoot trefoil	PD, VPD	C/F	4 2
18	Creeping red fescue Kentucky bluegrass Redtop Timothy Alsike clover	See Notes 1	C/F	8 8 1 2 3
19	Creeping red fescue Redtop Tall fescue Smooth bromegrass Alsike clover or birdfoot trefoil White clover, red clover, or alfalfa	See Notes 1	C/F, WW	6 1 6 6 3 3

Notes:

Five pounds of annual or perennial ryegrass may be added to any mixture if quick cover is desired.

1. These mixtures are suitable for large or linear projects where several soil types may be encountered but a single seed mixture is desired for the entire project.

TABLE 6. EXAMPLE SEEDING MIXTURES FOR INTRODUCED SPECIES

Common Name	Scientific Name	Seeding Rate lbs/acre	Drainage Class Suitability	Notes
American beachgrass	<i>Ammophila Breviligulata</i>		Dunes, WD sands	1
"Tioga" deertounge	<i>Panicum clandestinum</i>	15	WD, MWD	2,3
Little bluestem	<i>Schizachynum scoparius</i>	12	WD, MWD	2
Big bluestem	<i>Andropogon gerardii</i>	15	WD, MWD, SPD	2
Switch grass	<i>Panicum virgatum</i>	10	WD, MWD, SPD	2
Indian grass	<i>Sorghastrum nutans</i>	10	WD, MWD, SPD	2

Notes:

1. Beachgrass is planted vegetatively: see text
2. Warm season grasses
3. Suitable for sand and gravel pit and mine reclamation

A great variety of native species are available: consult suppliers for cultural information

Key for information in Tables 4, 6 and 7

Abbreviations for Soil Natural Drainage Classes:

WD = Well Drained MWD = Moderately Well Drained

SPD = Somewhat Poorly Drained PD = Poorly Drained VPD = Very Poorly Drained

Abbreviations for Suitable Uses (table 4)

A = Sites maintained as a lawn

C/F = Cut and fill, slopes, ditch banks

WW = areas subject to periodic storm water flow such as grassed waterways, ditch bottoms, diversions

Species shown in bold face may be invasive and should not be planted where they can escapes into sensitive natural areas.

TABLE 7. SELECTED TREES AND SHRUBS FOR EROSION CONTROL

Common Name	Scientific Name	Drainage Class Suitability	Notes
Evergreen Trees			
Jack pine	<i>Pinus banksiana</i>	WD, MWD, SPD	
Red pine	<i>Pinus resinosa</i>	WD, MWD	
White pine	<i>Pinus strobus</i>	MWD, SPD	
Norway Spruce	<i>Picea Abies</i>	WD, MWD	1
Deciduous Trees			
Quaking aspen	<i>Populus tremuloides</i>	WD, MWD, SPD	
Bigtooth aspen	<i>Populus grandidentata</i>	WD, MWD	
Hybrid poplar	<i>Populus spp.</i>	WD, MWD, SPD	1
Red maple	<i>Acer rubrum</i>	ADAPTABLE	
Silver maple	<i>Acer saccharinum</i>	MWD, SPD, PD	
Hawthorn	<i>Crataegus spp.</i>	Varies by species	3
Black willow	<i>Salix nigra</i>	SPD, PD, VPD	
With the exception of hawthorn the trees listed above are fast growing and selected for their potential use in windbreaks			
Shrubs			
Northern bayberry	<i>Myrica pensylvanica</i>	WD, MWD	1, 2
Fragrant sumac	<i>Rhus aromatica</i>	WD, MWD	2
Staghorn sumac	<i>Rhus typhina</i>	WD, MWD	
Gray dogwood	<i>Cornus foemina (racemosa)</i>	WD, MWD, SPD	
Red-osier dogwood	<i>Cornus stolonifera</i>	SPD, PD, VPD	
Cranberry-bush viburnum	<i>Viburnum opulus (trilobum)</i>	SPD, PD, VPD	
Shrub willows	<i>Salix spp.</i>	SPD, PD, VPD	
Blackberry / raspberry	<i>Rubus spp.</i>	Varies by species	3

The shrubs listed above are selected for vigorous and extensive root growth. Willows are particularly useful for stream bank stabilization; they will sprout from cuttings or branch bundles if moisture is adequate.

Notes:

1. These species are not native to Michigan
2. These species may not be cold hardy in the Northern Lower or Upper Peninsula
3. Thorny species useful for excluding humans where foot traffic may create erosion sites.