GENESEE COUNTY DRAIN COMMISSIONER'S OFFICE

-DIVISION OF-

WATER & WASTE SERVICES

JEFFREY WRIGHT
COMMISSIONER

G-4610 BEECHER ROAD • FLINT, MICHIGAN 48532-2617

PHONE (810) 732-7870 • FAX (810) 732-9773

OFFICE USE ONLY

Permit Number		Date Issued		Expiration Date	

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

☐ Landowner ☐ Designated Agent NAME:			
ADDRESS:			
CITY:	STATE: MI	ZIP:	PHONE:

2. LOCATION

SECTION		☐ CITY ☐ TOWNSHIP ☐ VILLAGE	PROPERTY TAX ID #
SUBDIVISION	LOT #	STREET ADDRESS	

3. PROPOSED EARTH CHANGE

Project Type: Residential ☐ Industrial ☐ Multi-Family ☐ Land Balancing ☐ Commercial ☐		
Describe Project		Size of Earth Change (Acres or square feet)
Name of and distance to nearest Lake, Stream, or Drain	Date Project to start	Date Project to be complete

4. SOIL EROSION AND SEDIMENTATION CONTROL PLAN (Refer to Rule 323.1703)

Note: ☐ Complete sets of plans must be attached.	Estimated Cost of Erosion and Sedimentation Control	
	Plan Preparer's Name	Phone #

5. PARTIES RESPONSIBLE FOR EARTH CHANGE

Name of Landowner (if not provided in Box. 1 above)			Address	
City	State	Zip	Phone #	
Name of Individual "On Site" Responsible for Earth Change			Company Name	
Address	City	State	Zip	Phone

6. PERFORMANCE DEPOSIT (If required by the permitting agency)

Amount Required $				
Name of Surety Company				
Address	City	State	Zip	Phone

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 Resource and Environmental Protection Act, 1994 PA 451, as amended, applicable local ordinances, and the documents accompanying this application.

Landowner's Signature	Print Name	Date
Designated Agent's Signature*	Print Name	Date

* Designated agent must have a written statement from landowner authorizing him/her to secure a permit in the landowner's name.

Genesee County Drain Commissioner
Division of Water and Waste Services
Soil Erosion and Sedimentation Control Plan Submittal Checklist

The Following information <u>shall</u> 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"=60' on 24"x36"sheets) of the property with the items below clearly labeled:(Residential submitted on letter or legal paper)
   - A. ___Name and address of applicant.
   - B. ___Project Name, location, proximity to Waters of the State (lake, stream, drain, wetlands) and the 100year floodplain contour for those waters.
   - C. ___Location map, NORTH arrow and drawing scale.
   - D. ___Limits of earth change.
   - E. ___Existing and proposed contours.
   - F. ___Existing and proposed drainage.
   - G. ___Existing on-site vegetation.
   - H. ___Soil stock pile locations.
   - I. ___Description and location of ALL temporary and permanent soil erosion measures, with measures clearly drafted and labeled with the Mich. Unified Keying System.
3. ___ A topographic map with the affected area clearly labeled. (Commercial see item E above)
4. ___ Existing soils information, with project area clearly labeled. (Soils Map)
5. ___ A completed Soil Erosion and Sedimentation Control application.
6. ___ A completed construction and maintenance schedule.
7. ___ A copy of any state required permits for completing earthwork within the boundaries of a state regulated wetland and/or floodplain.
8. ___ Include master deed, parcel plan or record map for land division that has been recorded with-in the last two years.

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

Name of Party Preparing Checklist: _____

Signature: _____ **Date:** _____

SESC CONSTRUCTION AND MAINTENANCE SCHEDULE

Project Name: _____

Anticipated Start Date: _____

Anticipated End Date: _____

Construction Schedule

Construction Sequence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Notes
Temporary SESC Measures													
Strip and Stockpile													
Rough Grading													
Underground Utilities													
Road Installation													
Building Construction													
Permanent SESC Measures													
Final Grade													
Landscaping													

Maintenance Schedule

Maintenance Sequence	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Notes
Street Sweeping													
Silt Fencing													
Maintain Buffer Strips													
Inlet Structures													
Seeding and Mulch													
Sediment Basins													
Rip-Rap													
Remove Temporary Measures													

Seeding and Planting Schedule

Temporary: (Refer to Tables 4 & 6 in MDEQ "Guidelines for Vegetative Erosion control" included with this packet)

Area on Plan	Mix #	Common Name	Natural Drainage Class Suitability	Suitable Uses	Rate lb/acre

Permanent: (Refer to Tables 4 & 6 in MDEQ "Guidelines for Vegetative Erosion control" included with this packet)

Area on Plan	Mix #	Common Name	Natural Drainage Class Suitability	Suitable Uses	Rate lb/acre

Trees and Shrubs: (Refer to Table 7 in MDEQ "Guidelines for Vegetative Erosion control" included with this packet)

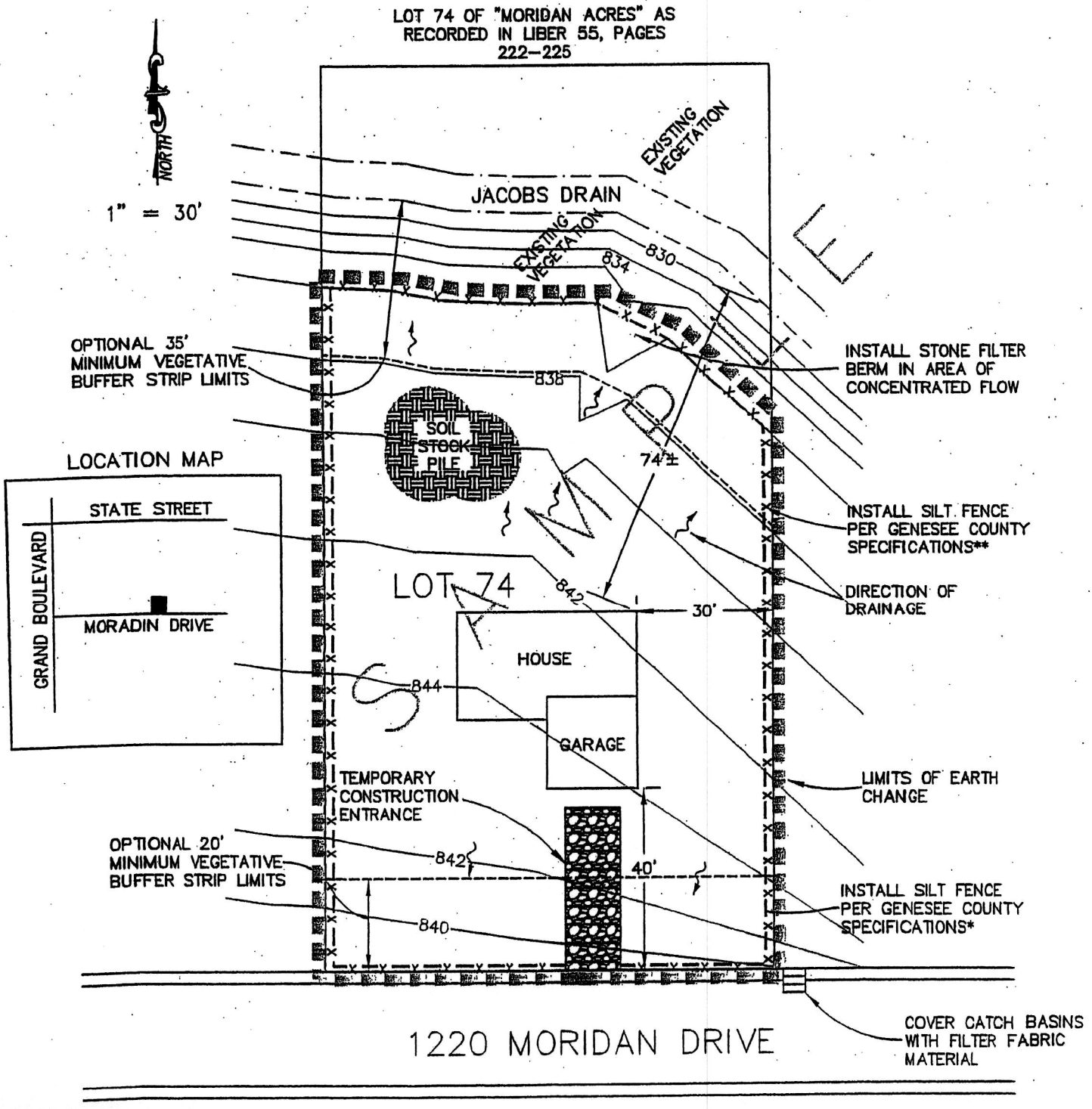
Area on Plan	Quantity	Common Name	Scientific Name	Drainage Class	Notes

Revised 1 31 02

EXAMPLE SINGLE FAMILY HOME SITE PLAN

HOUSE PLOT PLAN FOR:
JOE SMITH
1111 MAIN STREET
FLINT, MI 48503

LOT 74 OF "MORIDAN ACRES" AS RECORDED IN LIBER 55, PAGES 222–225



* SILT FENCE IS NOT NECESSARY SO LONG AS A MINIMUM THICK 20' VEGETATIVE BUFFER STRIP IS MAINTAINED DURING CONSTRUCTION.

** SILT FENCE IS NOT NECESSARY SO LONG AS A MINIMUM THICK 35' VEGETATIVE BUFFER STRIP IS MAINTAINED ALONG ALL WATERS OF THE STATE DURING CONSTRUCTION.

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FEE SCHEDULE – EFFECTIVE JANUARY 1, 2009

SOIL EROSION AND SEDIMENTATION CONTROL FEES

1.) Single Family Residential (per lot or parcel)	
a.) Application Review Fee	$ 35
b.) Waiver for Single Family Residential	No Additional Charge
c.) Permit Fee for Single Family Residential	$ 75
d.) Permit Fee for Personal Recreational Pond	$ 50
2.) Non-Single Family Residential (Multi-Family, Commercial or Industrial)	
a.) Application Review Fee for Non Single Family Residential Site	
Less than 1 Acre	$100
1-19 Acres	$125
20-39 Acres	$225
40 or More Acres	$525
b.) Waiver for Non-Single Family Residential Site	No Additional Charge
c.) Permit Fee for Non-Single Family Residential	$100 Per Acre (Round Up)
Plus -- Cash Bond, Surety Bond, or Letter of Credit as Required	
3.) Utility – Transportation – Trench Construction	
a.) Application Review Fee	$100
b.) Permit Fee	$0.20 Per Lineal Foot With A Minimum of $250
4.) Miscellaneous Fees	
a.) Issue/Lift Cease and Desist Order	$200
b.) Commence Construction Without Permit	Double Normal Fee

PLAN REVIEW FEES – SITE PLANS, PLATS, CONSTRUCTION PLANS

1.) Plan Review Fee (Initial and One Follow-Up Review)	$250
a.) Each Additional Review	$250
2.) Utility Capacity Review (If Not Under O & M Agreement)	$100 Per Hour
3.) Grinder Pump Station Permit Review Fee	$200

INSPECTION FEES

1.) S-Permit (Sanitary Sewer and Watermain) – All Applicants	$2.00 Per Lineal Foot
a.) Final Testing	$300
b.) Water Usage	$85 Minimum (Or Actual Use (Based On Diameter& Length)
2.) B-Permit Inspection - location and pipe type only does not replace other required inspections	
a.) Service Lead Inspection (sewer & water)	$50
3.) IPP Device Inspection (grit trap, grease trap, etc.)	$50

WATER SERVICE LEAD INSTALLATION FEES

1.) 5/8" Service Lead (includes meter)	$1,430
5/8" Meter Only	$100
2.) 1" Service (includes meter)	$1,570
1" Meter Only	$160
3.) 1-1/2" Service Lead (includes meter)	$3,550
1-1/2" Meter Only	$350
4.) 2" Service Lead (includes meter)	$4,840
2" Meter Only	$375

Please Contact Our Office For Information Regarding Meters Larger Than 2"
Meters Will Be Charged At Market Value

WELL METERS

Installed On Wells To Meter For Sewerage Discharge
Includes Cost Recovery For 5-Year Replacement And Installation Of Radio Reader Device

1.) 5/8" Meter	$312
2.) 1" Meter	$372
3.) 1-1/2" Meter	$562
4.) 2" Meter	$587

ADDITIONAL FEES

1.) Adjustment Permit for Sanitary Manhole	$100 Minimum or Actual Cost
2.) Fire Hydrant Relocation	Calculated at $50/hr $500 Minimum or Actual Cost
3.) Hydrant Flow Test	$100
4.) Special Inspections	Calculated at $50/hr $50/hr – Straight Time $75/hr – Overtime
5.) Vehicle Charge	$100/Day
6.) Meter Test / Calibration	$75
7.) Saddle Tap	$200 Gravity Line $400 Force Main
8.) Duplication Charges – Prints, Maps, Etc.	
a.) 24 x 36 – Hard Copies	$5/Page
b.) 24 x 36 – Digital Transfer	$3/Page
c.) 36 x 36 – Hard Copy	$8/Page
d.) 36 x 36 – Digital Transfer	$6/Page

HYDRANT GENERAL

Contact Office for Locations

Coin Operated	$0.25/60 Gallons
Billed By Pre-Approved Account (Usage At Coin Operated Rate)	$100 Set-Up Charge

IPP – INDUSTRIAL PRE-TREATMENT DISCHARGE PERMIT

1.) Application Review Fee With General Permit – Standard	$250
2.) Minor Industrial Permit For Industries	
a.) Do Not Qualify For Or Enroll In BMP (FSF, Hg, Ag)	$500
b.) Minor Users With BMP (FSF, Medical, 1-Hour Photo, X-Ray, Processing, Carwashes & Oil Change Facilities)	$125
3.) Significant Industrial Users Or Significant Industrial Users With SAL	Fees To Be Determined On User Specific Basis

HIGH STRENGTH COMPATIBLE POLLUTANT SURCHARGE RATES

1.) BOD	$0.091/lb
2.) SS	$0.076/lb
3.) Ammonia	$0.456/lb
4.) Phosphorus	$2.282/lb

SEPTAGE HAULING

$67/1,000 Gallons

Approved: Wright
Jeff Wright, Drain Commissioner

Date: November 3, 2008

GENESEE COUNTY DRAIN COMMISSIONER
SOIL EROSION BOND
(To Accompany Application for Permit)

Bond NO._____

_____ _____
(Name of development) (S-Permit)

KNOW ALL MEN BY THESE PRESENTS, that_____ as principal and _____ as surety, are held and firmly bound unto the Genesee County Drain Commissioner in the penal sum of _____ dollars, for the payment of which, well and truly to be made, we bind ourselves and our heirs, executors and administrators, jointly and severally, firmly by these presents.

Sealed with our seals and dated this _____day of _____A.D. 20__.

WHEREAS, the above bounded _____ has made application to said Drain Commissioner for a permit as stated in the application therefore.

NOW THEREFORE, the condition of this obligation is such that if the above bounded shall perform the undertakings of said application in the manner prescribed in the permit therefore issued by said Drain Commissioner and shall well and truly pay for all damages on account of such construction, earth moving and all other damages fines and penalties which he shall become liable to pay and shall save said Genesee County Drain Commissioner harmless and indemnify them from all suits, claims, damages and proceedings of every kind arising out of the aforesaid damages and injuries and shall observe all the terms and conditions of the permit to be issued, then this obligation to be void, otherwise of full force and effect.

Principal _____ _____
(Seal) Principal's Mailing address

_____

Surety_____ _____
(Seal) Surety's Mailing Address

_____

.....

NOTICE TO SURETY OF ISSUANCE OF PERMIT

This is to inform you that a permit, covered by the above bond has been issued as follows:

Applicant _____

Contractor _____

Permit No. _____

Permit Date _____

Please include this information on all correspondence concerning the bond.

NOTICE OF TERMINATION OF LIABILITY

This is to inform you that:

The permit operations covered by the above bond have been completed satisfactorily.

The permit covered by above has been canceled.

Liability under the bond is therefore terminated effective

_____
(Date)

By:_____

Table 4. Example Seeding Mixtures for Introduced Species

Mix #	Common Name	Natural Drainage Class Suitability	Suitable Uses	Rate lbs/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, or 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** Alsike 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)

Mix #	Common Name	Natural Drainage Class Suitability	Suitable Uses	Rate lbs/acre
17	Redtop	PD, VPD	C/F	4
	Alsike clover or **birdfoot trefoil**			2
18	Creeping red fescue	see note 1	C/F	8
	Kentucky bluegrass			8
	Redtop			1
	Timothy			2
	Alsike clover			3
19	Creeping red fescue	see note 1	C/F, WW	6
	Redtop			1
	Tall fescue			6
	Smooth bromegrass			6
	Alsike clover or **birdfoot trefoil**			3
	White clover, red clover, or alfalfa			3

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. Seed Selection Guide for Some Commonly Available Native Grasses

Common Name	Scientific Name	Seeding Rate lbs/acre	Drainage Class Suitability	Notes
American beachgrass	*Ammophila breviligulata*		Dunes, WD sands	1
"Tioga" deertongue	*Panicum clandestinum*	15	WD, MWD	2,3
Little bluestem	*Schizachyrium scoparius*	12	WD, MWD	2
Big bluestem	*Andropogon gerardii*	15	WD, MWD, SPD	2
Switch grass	*Panicum virgatum*	10	WD, MWD, SPD	2
Indian grass	*Sorghastrum nutans*	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, 5, 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 escape 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	*Pinus banksiana*	WD, MWD, SPD	
Red pine	*Pinus resinosa*	WD, MWD	
White pine	*Pinus strobus*	MWD, SPD	
Norway spruce	*Picea abies*	WD, MWD	1
Deciduous Trees			
Quaking aspen	*Populus tremuloides*	WD, MWD, SPD	
Bigtooth aspen	*Populus grandidentata*	WD, MWD	
Hybrid poplar	*Populus spp.*	WD, MWD, SPD	1
Red maple	*Acer rubrum*	ADAPTABLE	
Silver maple	*Acer saccharinum*	MWD, SPD, PD	
Hawthorn	*Crataegus spp.*	varies by species	3
Black willow	*Salix nigra*	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	*Myrica pensylvanica*	WD, MWD	1,2
Fragrant sumac	*Rhus aromatica*	WD, MWD	2
Staghorn sumac	*Rhus typhina*	WD, MWD	
Gray dogwood	*Cornus foemina (racemosa)*	WD, MWD, SPD	
Red-osier dogwood	*Cornus stolonifera*	SPD, PD, VPD	
Cranberry-bush viburnum	*Viburnum opulus (trilobum)*	SPD, PD, VPD	
Shrub willows	*Salix spp.*	SPD, PD, VPD	
Blackberry/rasberry	*Rubus spp.*	varies by species	3

The shrubs listed above are selected for vigorous and extensive root growth. Willows are particularly useful for streambank 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.