Gratiot County
Department of Community Development
Soil Erosion & Sedimentation Control Division
214 E Center St., Ithaca, MI 48847
permits@gratiotmi.com / www.gratiotmi.com
(989) 875-5301

Office Use Only
Date Received



Soil Erosion and Sedimentation Control (SESC) Application

The goal of the Soil Erosion and Sedimentation Control Program is to serve the public by protecting the waters of the State of Michigan and to ensure clean water for drinking, swimming, fish, and wildlife habitat.

Gratiot County Inspectors: **William Leonard (989) 875-5301**
Diandra Messer (989) 875-5201
Anthony Miller (989) 875-5201

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SESC Permit Application

Completed application forms, schedule, and two site plans must be submitted at least 14 days prior to Construction Start Date to the Gratiot County Department of Community Development SESC Division.

1. Project Information

Address:		Parcel ID#:
City/Village:		Zip Code:
Township:	Section	Range:
Start Date:		Completion Date:

☐ **RESIDENTIAL** ☐ **COMMERCIAL** ☐ **INDUSTRIAL** ☐ **LAND BALANCING/MINING**

Check all that apply below

Project Type		
☐ New Home	☐ Home Addition	☐ New Garage (Attached/Detached)
☐ Accessory Structure	☐ Accessory Structure Addition	☐ Pool (In-Ground)
☐ Pond	☐ Commercial/Industrial (New)	☐ Commercial/Industrial (Addition)
☐ Site Development	☐ Pipeline/Utility	☐ Mining Operations
☐ Road	☐ Seawall	☐ Other

Earth Change Description: _____

_____

Size of Earth Change: _____Acres

Name & Distance to Nearest Lake/Pond/Drain: _____ ft. from _____ Drain/Creek/Lake/Pond

2. SESC Control Plan (See Attached Guidelines Rule 1703)

Designers Name:	Phone #:
E-mail Address:	Site Plan Attached: ☐ YES ☐ NO

3. Property Owner Information

Name:	Mailing Address:	
City:	State:	Zip Code:
E-mail Address:	Phone #:	

4. Permitee for Earth Change (Responsible Party On-Site)

Name:	Company Name:	
Mailing Address:	City:	State:
Zip Code:	Phone #:	

5. Performance Deposit (If Required)

Amount Required: $	Name of Surety Company:	
Mailing Address:	City:	State:
Zip Code:	Phone #:	E-mail Address:

6. Applicant Information

Name:	Mailing Address:	
City:	State:	Zip Code:
E-mail Address:	Phone #:	
Driver's License #:	Birth Date:	

Part 91. Section 324.9112 I (we) hereby certify that the proposed work is authorized by the Owner of Record and that I (we) have been authorized by the owner to make this application as the authorized agent, and we agree to conduct the above-described earth change in accordance to Part 91, Soil Erosion and Sedimentation Control, of the Natural Resources and Environmental Control Act, 1994 PA 451 as amended, local ordinances, and the documents accompanying this application. I (we) understand that the applicant is responsible for the payment of all fees and final ground cover.

If the property subject to a permit under Part 91 is transferred, the permit **and** responsibility for any violations of the permit that exist on the date the property is transferred as well. The transferor shall notify the transferee of the permit in writing on the Gratiot County *SESC Permit Transfer* form. The notice shall inform the transferee of the requirements of Part 91. The notice shall include a copy of the permit. The transferor and transferee shall sign the notice, and the transferor shall submit the signed notice to the Gratiot County Community Development Department before the property is transferred. All information submitted in this application is accurate to the best of my knowledge.

Applicant Signature and/or Designated Agent Authorization

I authorize _____ to act as my representative regarding the Soil Erosion
(Applicant/Contractor Name)
and Sedimentation Controls for the project located at _____.
In doing so, I agree to the specified requirements on the SESC Permit.

X_____ _____
Property Owner/Applicant Signature **Date**

X_____ _____
Designated Agent Signature **Date**

DEPARTMENT USE ONLY

Required Documentation Checklist (If Applicable)

__ SESC Application Completed with All Required Information – Yes ____ No ____
__ SESC Site Plan Completed with All Required Information – Yes ____ No ____
__ SESC Construction Schedule Completed with All Required Information – Yes ____ No ____
__Copy of Stormwater Drain Permit – Included: Yes ____ No ____ Not Applicable ____
__Copy of EGLE Part 303 Wetland Permit – Included: Yes ____ No ____ Not Applicable ____

APPLICATION – ☐APPROVED ☐DENIED **APPLICATION FEE: $**_____

X_____ _____
SESC Official Signature **Date**

PROJECT RISK: ☐ **Very Low** ☐ **Low** ☐ **Moderate** ☐ **High**

RISK LEVEL	INSPECTIONS	DESCRIPTION
Very Low	➢ 1 Pre-Construction ➢ 1 Post-Construction	✓Earth disturbance less than 0.5 acres ✓No highly erodible soils and/or slopes ✓No direct connection to surface water and/or adjacent properties ✓Greater than 100' of dense vegetation between earth disturbance and surface water and/or adjacent property.
Low	➢ 1 Pre-Construction ➢ 1 Post-Construction ➢ 1 Every 2 Months	✓Earth disturbance less than 1 acre ✓No/Minimal highly erodible soils and/or slopes ✓No direct connection (between 75-500') to surface water and/or adjacent properties
Moderate	➢ 1 Pre-Construction ➢ 1 Post-Construction ➢ 1 Every Month	✓Earth disturbance 1-5 acres OR ✓Earth disturbance with moderate proximity (within 75') of surface water or adjacent properties
High	➢ 1 Pre-Construction ➢ 1 Post-Construction ➢ 1 Every 2 Weeks ➢ Every rain event.	✓Earth disturbance greater than 5 acres OR ✓Earth disturbance with close proximity/direct connection (within 25') to surface water or adjacent properties

Site Plan Checklist

Rule 1703 Requirement	Included in Plan?	Comments
Map w/ Scale (1" = 200' or less)	☐Yes ☐No	
Nearest Road Intersection Labeled	☐Yes ☐No	
Legal Description of Property	☐Yes ☐No	
Location & Size of Proposed Earth Change	☐Yes ☐No	
Proximity of Proposed Earth Change to Lakes/Streams/Ponds/Drains	☐Yes ☐No	
Location & Size of Temporary Soil Stockpiles	☐Yes ☐No	
Predominant Geographic and Vegetation Features	☐Yes ☐No	
Location & Size of All Tree Lines/Forested Area	☐Yes ☐No	
Location & Size of All Existing Buildings/Structures	☐Yes ☐No	
Slope Description/Contour Intervals	☐Yes ☐No	
Soil Survey/Written Description of Soil Type	☐Yes ☐No	
Description & Location of the Physical Limits of Each Proposed Earth Change	☐Yes ☐No	
Description & Location of All Existing & Proposed On-Site Drainage & Dewatering Facilities	☐Yes ☐No	
Description & Location for Installing and Removing All TEMPORARY SESC Measurements	☐Yes ☐No	
Description & Location for All PERMANENT SESC Measurements	☐Yes ☐No	
Maintenance Program for all Permanent SESC Measures (Including Designated Responsible Person)	☐Yes ☐No	
Timing & Sequence of Construction/Proposed Earth Changes	☐Yes ☐No	

*** If No is checked above, the plan must be revised to include the missing element prior to submittal/approval.

Additional Earth Change Information

Has earth-moving activity started?	☐ Yes ☐ No	
Is the earth-moving activity over 1-acre?	☐ Yes ☐ No	
Is the earth-moving activity over 5-acres?	☐ Yes ☐ No	— If Yes, Licensed SWO must be on-site
Will the work be occurring in a wetland?	☐ Yes ☐ No	— If Yes, contact MDEQ
Will de-watering occur?	☐ Yes ☐ No	
Will work be occurring in a waterway/floodplain?	☐ Yes ☐ No	— If Yes, contact MDEQ
Will a designated county drain be affected?	☐ Yes ☐ No	— If Yes, contact Drain Office
Will fill be brought on-site?	☐ Yes ☐ No	— Amount in Cubic Yards _____
Will material be removed from site?	☐ Yes ☐ No	— Amount in Cubic Yards _____

Site Plan:

Soil Erosion Control Plan

Legend

(Use key below to place needed objects on the plan, use a scale or ruler to draw home location and locate any other trees or buildings on the property. Label Roads. Show only the area that will be disturbed and the access drive.)

Property Line — - — - — -

Existing Drainage - — - —→

Temp. Diversion ----TD----→

Finished Drainage ----------→

Limits of Grading ----------

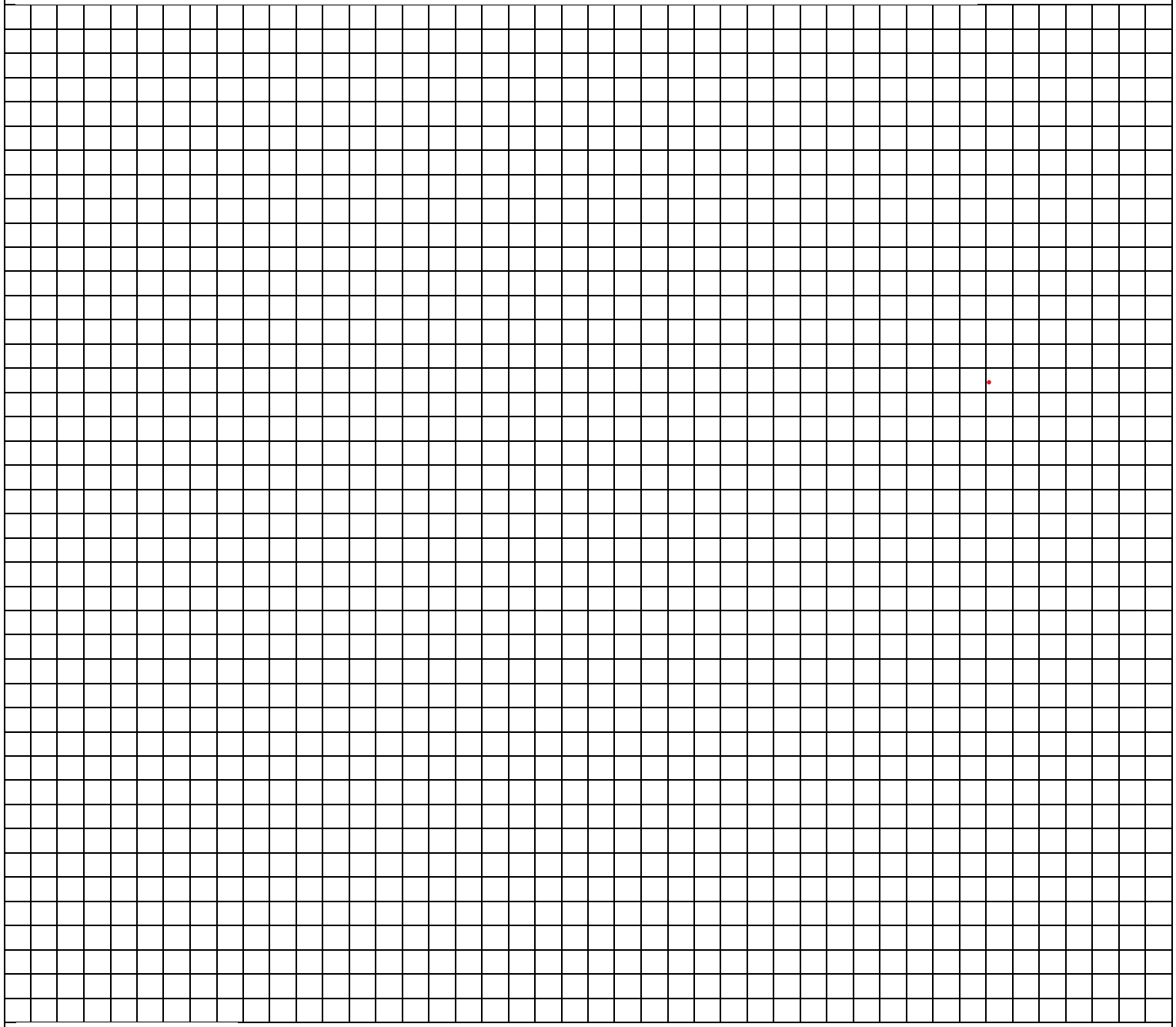
Silt Fence s——s——s

Show stone access drive, tree preservation and temporary soil stockpile.

Owner:

Phone #:

Scale: 1 inch = _____ Feet



Legal Description:

Example Site Plan:

Soil Erosion Control Plan

Legend

(Use key below to place needed objects on the plan, use a scale or ruler to draw home location and locate any other trees or buildings on the property. Label Roads. Show only the area that will be disturbed and the access drive.)

Property Line

Existing Drainage

Temp. Diversion ----TD---->

Finished Drainage

Limits of Grading

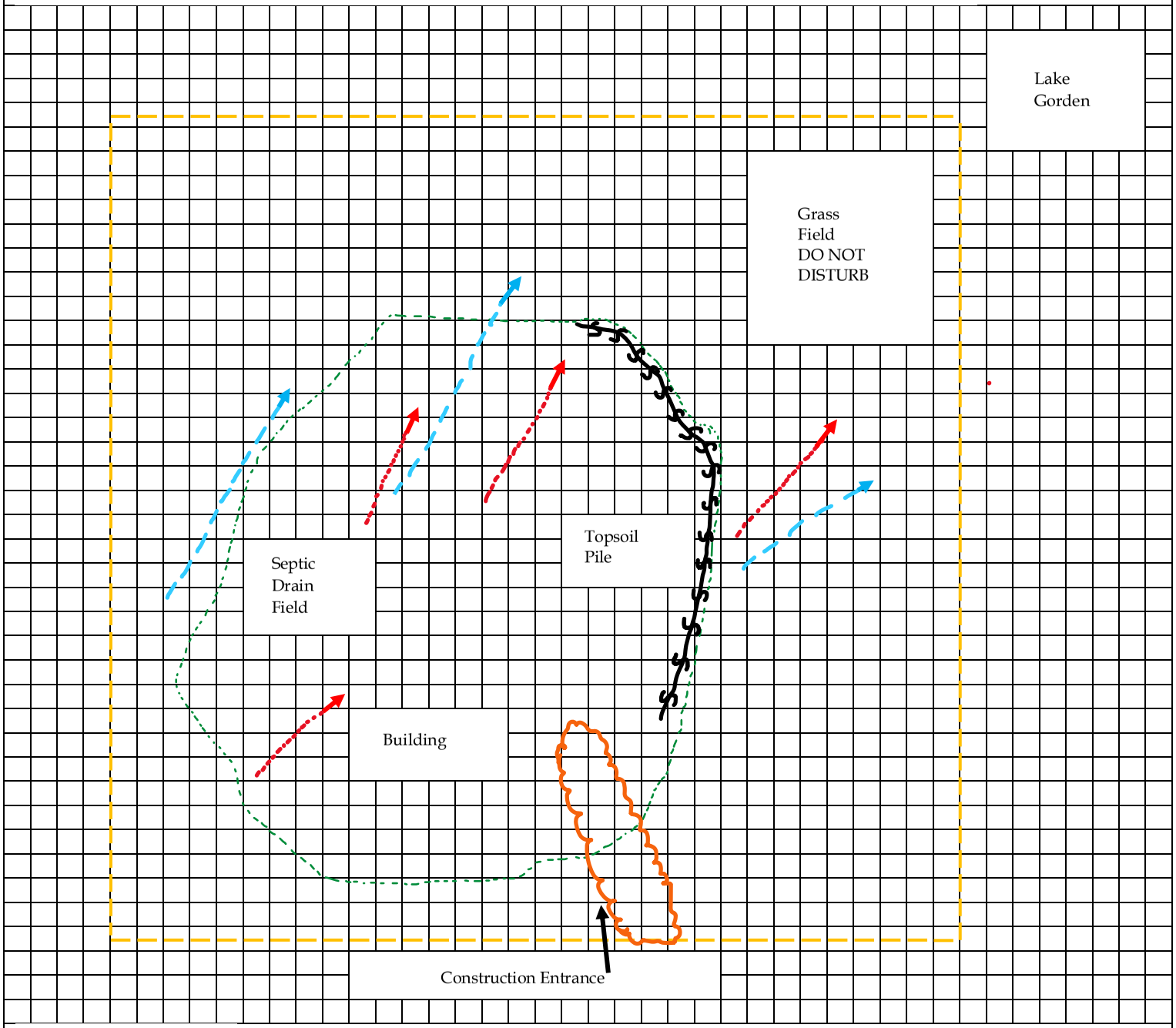
Silt Fence -s-s-s-

Show stone access drive, tree preservation and temporary soil stockpile.

Owner: John Smith

Telephone #: (989) 875-5201

Scale: 1 inch = _____ Feet



Legal Description:

Approximate Project Timing/Construction Schedule (REQUIRED)	
Minor Project	Date (Month/Year)
Temporary Erosion Control Measures Installed	
Gravel Drive/ Entrance Installed	
Land Cleared or Excavation Started	
Final Grade/Seeding	
Permanent Erosion Measures in Place	
Temporary Erosion Measures Removed	
Major Project	
Temporary Erosion Control Measures Installed	
Gravel Drive/ Entrance Installed	
Land Cleared or Excavation Started	
Detention/Retention/Sediment Ponds Installed	
Road Construction	
Utilities Installed	
Final Grade/Seeding	
Catch Basins/Ponds Cleaned	
Permanent Erosion Measures in Place	
Temporary Erosion Measures Removed	

SESC Permit Fee Schedule		
	Fee	Add Cost
Plan Review Fee		
<1 acre	$25.00	
1 to 5 Acres	$50.00	
>6 Acres/Commercial	$75.00	
Permits Fee		
Residential –		
New Home	$100.00	
Building Addition/Improvement	$50.00	
Accessory Building	$50.00	
Garage	$50.00	
Sanitary Waste System	$50.00	
Driveway	$50.00	
Residential Site Development		
Seawall/Retaining Wall	$200.00	
Pond (Between 1 – 4.99 Acres)	$200.00	
Pond (5+ Acres) (EGLE Permit Required)	$300.00	
Industrial/Commercial/Site Development		
Up to 1 Acre	$200.00	
Each Additional Acre (or Fraction Thereof)	$25.00	
Utilities (Including but not limited to cables/conduits/pipelines)		
Up to 1 Mile	$100.00	
Each Additional Mile	$35.00	
Gravel/Sand Mining (Annual Permit)		
1-2 Acres	$250.00	
3-5 Acres	$500.00	
6+ Acres	$750.00	
Inspection Fee		
Monthly (Inspection Schedule Based on Project Risk)		
Residential	$30.00	
Non-Residential	$50.00	
Non-Residential (Multiple Parcel Projects)	$50.00/Parcel	
Site Evaluation/Consultation (Property Visit)		
Single-Family Residential Home/Accessory	$35.00	
All Other Projects	$75.00	
TOTAL PERMIT COST		

*****Commercial Projects that involve multiple parcels will be issued one (1) permit per Parcel involved, but will be charged a Total Permit Fee based upon the total amount of Earth Disturbance across all parcels involved. The Total Permit Fee will be invoiced to each permit issued based upon (TPF) ÷ (# of Permits Issued).**

Frequently Asked Questions

PART 91, SOIL EROSION AND SEDIMENTATION CONTROL (SESC)
of the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451, as Amended

1. **Why is erosion and sediment control important?**
   Sediment is the greatest pollutant by volume impacting our lakes, streams, and wetlands. Sediment is the product of uncontrolled erosion. Everyone in Michigan is affected by erosion and off-site sedimentation. Erosion and sedimentation result in: loss of fertile topsoil, filling of lakes and streams, increased flooding, damage to plant and animal life, and structural damage to buildings and roads.
   Construction is one of the major causes of erosion in Michigan. Without proper planning and management, over 100 tons of sediment per acre per year can be generated on some construction sites.

2. **Why was Part 91 passed?**
   The primary intent of Part 91 is to protect the waters of the state and adjacent properties by minimizing erosion and controlling off-site sedimentation.

3. **Where do I obtain a Part 91 permit?**
   In Gratiot County, excluding the City of St. Louis, Gratiot County has primary responsibility for issuing permits. An SESC Permit can be obtained at the Department of Community Development Office at 118 S. Main St. Ithaca, MI.

4. **What principles should be considered when developing a SESC plan?**
   1. Integrate the overall construction design and activities to fit the physical features of the site.
   2. Stage construction and stabilization activities to minimize the area and duration of disturbance.
   3. Identify control measures that will minimize erosion.
   4. Identify controls that will prevent off-site sedimentation. Sediment control should not be used as used as a substitution for erosion control, but rather in conjunction with erosion control.
   5. Establish an inspection and maintenance schedule.

5. **How can I maintain compliance with Part 91?**
   1. Obtain a permit from the appropriate county or municipal enforcing agency.
   2. Install all temporary and permanent SESC measures in accordance with the approved SESC plan and special permit conditions. Temporary SESC measures should be installed prior to or upon commencement of the earth change.
   3. Inspect all projects at least weekly and after every rainfall event to evaluate the effectiveness of the SESC measures.
   4. Maintain and/or replace all SESC measures per plan requirements or as needed based on the site inspections.
   5. Notify the permitting agency when the project begins and for a final inspection when the site is stabilized.
   Note: If the permit will expire before the site is stabilized, a request for a permit extension must be made before the permit expires.

6. **Are there penalties for not complying with permit conditions or Part 91?**
   Yes, there are several:
   1. A person may be subject to a civil fine of up to $25,000 for each day of violation.
   2. A cease and desist order or injunction may be issued until compliance is obtained.
   3. The permitting agency may install or maintain control measures, to bring the site into compliance with Part 91, and bill the landowner for the costs incurred.
   4. A person may be ordered to restore all areas affected by the violation.

7. **If I have a Part 91 permit, do I need to apply for storm water coverage under Part 31 of the NREPA?**
   Yes, if your earth change meets the requirement for storm water coverage. Storm water coverage is required for any earth change that disturbs one or more acres of land and has a point source discharge to the waters of the state. A point source discharge is defined as any discharge by a specific confined conveyance such as, but not limited to, a pipe, ditch, channel, swale, or concentrated flow area.

8. **If I obtain a permit from the DEQ's Water Resources Division for various land/water interface activities, do I need a Part 91 permit?**
   Yes, if the project involves earth work that is within 500 feet landward of a lake or stream or disturbs one or more acres.

Acceptable Control Measures

- Catch Basin Filter—Geotextile filter fabric placed inside a catch basin (storm drain) to filter suspended sediment from water. Must have regular maintenance after storm or snow melt events.
- Check Dam (Temporary)—A line of 4-8" stone piled a maximum of 2ft. high that slows the flow of water in ditches, swales, or natural drainage areas. Should be built so the center of the wall is lower than outside edges and spaced so the downslope is level with the bottom of the upslope.
- Detention/Retention Basin—Drainage basins or ponds designed to hold and filter water draining from developed site to prevent flooding and filter suspended sediment. (Required for most major projects.)
- Erosion Control Blanket—A blanket composed of biodegradable mesh material, interlaced with straw mulch, and sometimes containing grass seed that is staked in and trenched in at the top and flat against the ground. Used to control erosion on steep downslopes.
- Rip-Rap—Rocky type material (6-8" stone) placed on the edges of culverts or drainage outlets in a half-circle around the outlet to slow water.
- Silt Fencing—(Temporary) Wooden fence posts, support system, and a geotextile filter fabric used to keep suspended soil particles form leaving the site. Must be trenched to a depth of 6".
- Vegetative Buffer—A strip or area of vegetation used to filter sediment and pollutants from runoff with a minimum width of 25'.

Acceptable Stabilization Methods

Temporary:

- Mulch—Typically in the form of straw, spread heavily over a disturbed area to protect exposed soil from weather elements. Soil must not be visible through the mulch.
    - Used—In flat areas with a low amount of water runoff and/or with adequate protection from high winds.
- Erosion Blankets—Consist of straw, coconut fiber or excelsior fiber packed in web netting (sometimes with seed for more permanent stabilization). Laid at right angles, staked in place, and toed in at the top of the slope with a 6" overlap of all edges.
    - Used—In moderate/steep slopes on sites with soil that is susceptible to erosion.
- Hydro-Seed—Grass seed to stabilize the soil. (Use with mulch for a better barrier between the weather elements and the soil.
    - Used—on flat areas with low volume of runoff.
- Tarps—Plastic sheets
    - Used—to cover stockpiles or small disturbances. (Not for large disturbances.)

Permanent:

- Established Vegetative Cover—Any form of vegetation that provides a root base in the soil and a barrier between the soil and the weather. (I.e. Sod, grass, native trees, shrubs, and ground cover)
- Woodchips—A thick layer of wood chips or other "permanent" mulch (only in non-sloped areas)
- Stone—A thick layer of stone (i.e. gravel drives, stone gardens, and pavers—use geotextile fabric underneath stone in swales and drives) (not for steep slopes)
- Pavement—Roads or driveways.

SESC Requirements:

- ✓ **Must have SESC Permit prior to earth moving activity. Post permit clearly visible from the road.**
- ✓ **SESC Measures must be designated on site plans and/or (as required) installed prior to any earth moving activity.**
- ✓ **Detention/Retention/Sedimentation ponds must be constructed and stabilized prior to Earth Moving activity. Outlets must be designed to reduce the water flow to non-erosive velocity.**
- ✓ **All earth moving activity must be designed, constructed, and completed in such a manner as to limit the exposed area of disturbed ground for the shortest period of time. Site must be stabilized within 5 days after final grading is completed.**
- ✓ **Stone access drives must be installed prior to construction.**
- ✓ **Soil, sediment, and miscellaneous debris must be kept off streets and out of drainage ditches/catch basins.**
- ✓ **Stockpiling must be kept clear of sensitive areas with adequate controls.**
- ✓ **Erosion control blankets are required on slopes of 4:1 or steeper.**
- ✓ **All permanent erosion control measures shall be permanently maintained by the owner or homeowner association.**

Benefits of SESC:

- **Economic—excess sediment increases cost of treating drinking water & negatively affects water treatment equipment.**
- **Health & Safety—Eroded soils entering water bodies/channels raise water levels and block culvers which leads to flooding. Sediment deposited on roadways from construction vehicles or storm water runoff leads to dangerous roadways. Soil particles carry pollutants such as pesticides, oil, and herbicides that contaminate the water bodies the soils enter.**
- **Environment—Sediment in water bodies can cover fish eggs and other organisms to prevent hatching. Sediment reduces light penetration which can lead to loss of aquatic plants. Soil absorbs heat and can raise water temperature and thus reduce fish populations.**
- **Aesthetic & Recreational—Clear water is more desirable for swimming, boating, canoeing, and fishing. Excess sediment leads to high water level but shallower water depth which affects canoeing, boating, and fishing capabilities.**