

Soil Erosion & Sedimentation Control Program of Iron County, Michigan



Iron Conservation District

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 Crystal Falls, Michigan 49920
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www.ironbaragacd.org



Schedule of Fees for Major Permit Categories		Minor Project Category Fees		QUALIFYING EXEMPTIONS TO AVOID OBTAINING A PART 91 PERMIT:						
Single Family Residential	\$250.00 Minimum \$250.00 an acre of earth change	S \$100.00	Septic Repair or Replace	An Exemption May Be Granted For:						
Subdivision Condominiums	\$500.00 Minimum \$500.00 an acre of earth change	L \$100.00	Landscaping, retention walls, driveways, pathways, docks or beach* (*Permit from DEQ may be required) (Max 5000 SQ. FT)	Beach Nourishment Project: Permitted under Part 325 of PA 451.						
Mixed Use	\$300.00 Minimum \$300.00 an acre of earth change			Minor Earth Change: A change of minor nature that will be finished or stabilized within 24 hours of initial earth change and not contribute sediment to lakes or streams.						
Industrial, Commercial, Above & Below Ground Utilities	\$300.00 Minimum (less than 1 acre) \$375.00 an acre for 1-10 acres \$325.00 an acre for 10-20 acres \$300.00 an acre for 20-30 acres	D/O \$100.00	Deck or Outbuilding* constructed with a footing or slab foundation, total earth disturbance of less than 500 square feet. (*uninhabitable)	225 Square Foot Exemption: A waiver will be issued if less than 225 square feet of earth will be disturbed and will not contribute sediment to lakes or streams.						
Topsoil Stripping	\$375.00 an acre minimum	F/A \$100.00	Forest harvest ancillary accesses roads & staging areas outside harvest areas, with no structures	Normal Road or Driveway Maintained: Grading or leveling that does not increase width or length of road or driveway and will not contribute sediment to lakes or streams						
Mining	\$375.00 an acre minimum			Other Exemptions: Plowing or tilling for crops, mining (does not apply to the removal of topsoil, sand, gravel, peat, clay, or marl), and logging (does not apply to ancillary or support facility's, such as new access roads, staging areas, processing facilities, and stockpiles that are outside harvest area. None of these exemptions apply if the activity is a phase of site preparation for another land use or activity that would require a permit. (See Minor Project Permit F/A if you do not qualify)						
Gravel Pit	Free if Approved									
C/M/N \$0-\$50	County, City, Municipal, Eligible Community Service Organization or Non Profit Projects, that meet certain guidelines and/or conform to all Civil Rights Act & ADA Requirements. Please request a meeting with the CEA of Iron County or call to discuss your proposal and potential Permit Fee Requirements.		After the Fact Permit Penalty	If work requiring a permit under Part 91 is performed without a permit, and an after the fact permit is issued, the landowner will be charged double the rate.						
			Violation Compliance Inspection Fee	An additional \$100.00 site inspection fee will be charged if you receive either a OFFICIAL NOTICE OF VIOLATION or STOP WORK ORDER .						
This Application is For: (Please check box)		Single Family Residential	Subdivision Condo	Mixed Use	Industrial Commercial Utilities	Topsoil Stripping	Mining	Gravel Pit	Minor Project Category	
		S	L	D/O	F/A	C/M/N	(Please See List For Qualifying Projects)			
Project Address, or Fire #										
Directions on "How to Access Project Site" Please include information on locked gates or easements through private property										
Pipeline or Utility Work Include Mile Marker & GPS Point Location										
City		Township		Property Tax ID #			Township		Range	Section#
Identify Closest Lake Stream or Wetland				Distance from Edge of Disturbance Area to Water				Size of Total Earth Change		
LANDOWNER MUST APPLY FOR PERMIT OF FILL OUT A LETTER OF AUTHORIZATION FOR APPLICANT										
Landowner Name				Home Phone			Cell Phone		Other (fax)	
Mailing Address				City			State		Zip code	
Email Address				*Landowners Signature				Date		
CONTRACTOR INFORMATION										
Contractor Name				Work Phone			Cell Phone		Other (fax)	
Mailing Address				City			State		Zip code	
Email Address				*Contractor Signature				Date		
*Landowner & Contractor: You acknowledge that you are fully aware of all plans and conditions of this application and accept responsibility for adhering to all Part 91 & DEQ Regulations, and understand that you may be liable for fines or penalty's for violation of any DEQ regulations.										
Office Use Only										
Permit Fee:		Approved By:			Date:		Notes:			

LANDOWNER LETTER OF AUTHORIZATION TO ALLOW CONTRACTOR OR OTHER RESPONSIBLE PARTY TO SIGN PERMIT APPLICATION

Note: Complete this portion only if you be signing the application for the landowner.

This form may be submitted by:

- Mail
- Email
- Fax
- Delivered by your agent

Name of Project: _____

Project Address: _____

Contractor: _____

As landowner of the project/property described above, I authorize the person indicated below to act on my behalf for the purposes of this application for a Soil Erosion and Sedimentation Control permit pursuant to Part 91, Soil Erosion and Sedimentation Control of the Natural Resources and Environmental Protection Act, Act 451 of the Public Acts of 1994 as amended. I understand that I am responsible for all earth changes related to this project and understand that Part 91, Act 451 may be enforced against me in the event of any violation of that Act.

Print here

Sign here

Date

LANDOWNER'S AUTHORIZED AGENT:

Contractor or Company Contact

Phone

Full Address

Estimate: Month, Day, Year

Installation of Temporary Erosion Controls _____

Excavation and Construction _____

Backfill and rough grade _____

Final grade and restoration completed _____

✓ Please notify the CEA if there are any changes to site plan, plan of work, and upon completion of work.

- Check all applicable soil types that exist on the site and any fill that may be brought in:

Sand___ Gravel___ Clay___ Loam___ Topsoil___ Other (explain) _____

- Check off the **TEMPORARY** erosion control measures that will be used during the project to prevent any soil from getting into water or wetland or onto other property:

___Berm ___Mulch ___Silt Fence ___Landscape Fabric ___Trench ___Straw Bales

___Sediment Trap ___None/Natural Impediments Sufficient ___Other

✓ Draw and label temporary measures on map.

RESPONSIBLE PARTY: Phone Number _____

Print here

Sign here

Date

- Check off the **PERMANENT** erosion control measures that will be used to restore disturbed areas as the project is completed: SEE GENERAL STANDARDS FOR SLOPE RESTORATION REQUIREMENTS

___Sod

___Seed/Mulch

___Gravel

___Pavement

___Concrete

___Rock (rip/rap)

___Other (specify) _____

✓ Draw and label permanent measures on map.

PERSON RESPONSIBLE FOR MAINTENANCE OF PERMANENT CONTROLS:

Print here

Sign here

Date



N

Additional Information & Helpful Tips

Pursuant to the Michigan Soil Conservation Erosion and Sedimentation Control Act, Part 91 of Act 451 of the Public Acts of 1994, as amended, MCL 324.9101 et seq.

As defined by Part 91 of PA 451 of 1994:

A Soil Erosion Control Permit under MCL 324.9113 is required for earth changes that are located within **500 feet** of a lake, stream and for earth changes that are **one acre (43,560 square feet) or more** in surface area, regardless of location.

EXEMPTIONS:

There are a few types of earth change activities that do not need permits. The exempted activities are:

- Beach nourishment projects under Part 325 of PA 451
 - Minor earth changes of less than 225 square feet. (An earth change of a minor nature that is stabilized by riprap, seed/mulch, gravel, etc. within 24 hours of the initial earth disturbance, and that will not contribute sediment to lakes or streams.)
 - Normal driveway, or road maintenance. (Grading, or leveling, that does not increase the width or length of the road or driveway, and will not contribute sediment to lakes or streams.)
 - Plowing/tilling for crop production, mining, and logging* **. (*The exemption for mining does not apply to the removal of topsoil, sand, gravel, peat, clay, or marl.) (**The exemption for mining and logging does not apply to ancillary or support facilities such as access roads, staging areas, processing facilities, and stockpiles that are outside of the "harvest" or "mining" area.)
- ✓ **NOTE:** The exemptions listed above do not apply if the activity is a phase of site preparation for another land use activity that requires a permit.

FEE CALCULATION:

- In most all cases a minimum fee applies if one acre or less. If you have more than one acre please use the following equation:
To calculate % of acre, take total square footage to be disturbed and divide by 43,560.
The fee is then calculated by the acreage X cost per acre.
Acre = 43,560 square feet.
- Bonding: A performance bond is required for all projects that will excavate or fill or 1000 cubic yards (27,000 cubic feet). The amount of the performance bond is \$1500. See application packet for more information.
*Note: Sand/Gravel/Clay/Peat/Marl etc. pits, landfills and stockpile yards are exempt from bonding requirements.

GENERAL REQUIREMENTS AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL PLANS

MAINTENANCE: The State law requires that the soil erosion and sediment control plan include "a program proposal for the continued maintenance of all permanent soil erosion control facilities which remain after project completion, including the designation of their person responsible for the maintenance – **"RESPONSIBLE PARTY"**

EASEMENTS: Prior to issuing a permit, the applicant must obtain construction easements for all earth changes on private properties that are not owned by the project owner.

CLOSING A PERMIT: A site shall be considered operating until the entire site is re-sloped, vegetated, and/or the installation of sediment control structures are in place and properly functioning so that no sediment containing storm water exits the site. (**Note: A site that has been seeded and mulched is NOT considered to be permanently stabilized until the surface area is well vegetated**). All storm water/sediment control structures must be designed to withhold a 25-year frequency, 24-hour duration event. The documents must include detailed drawings showing the proper use, materials, and installation of all permanent erosion/sedimentation control measures along with the requirement that the control measures be properly installed, maintained, relocated, modified, etc. as necessary to perform their intended function and be in compliance with the law. Dust control measures must be addressed.

PERMANENTE CONTROL MEASURES:

All disturbed earth surfaces steeper than 3:1 and up to 2:1 (horiz: vert) shall be restored with rock rip-rap or other pre-approved equivalent. No new slopes shall be constructed steeper than 2:1 unless specifically waived by the Conservation District. An earth surface on pre-existing slopes steeper than 2:1 are to be armored with riprap or other pre-approved equivalent. These requirements apply to ditch foreslopes and back slopes.

In all areas of channeled flow, if the water velocity is between 4cfs and 6cfs for a 25-year frequency, 24-hour duration event, the channel shall be restored with pegged sod or other pre-approved equivalent. The sod shall extend a minimum of 1' above the channel bottom, measured vertically, or above the normal depth of flow for a 25-year frequency, 24-hour duration event. The sod seams shall not be installed in the bottom of the VEE. The sod shall be entrenched such that the top of the root mat is to the line and grade of the adjacent ground. In all areas of channeled flow, if the water velocity is greater than 6cfs for a 25-year frequency, 24-hour duration event, the channel shall be armored with rip-rap, pavement, or other pre-approved equivalent materials. The armor shall extend a minimum of 1' above the channel bottom, measured vertically, or above the normal depth of flow for a 25-year frequency, 24-hour duration event, whichever is greatest. Regardless of the velocity, all areas of channeled flow having a continuous base-flow shall be permanently stabilized with rip-rap, pavement, or other pre-approved method (bioengineering is encouraged). The rip-rap, pavement, etc., shall extend above the channel bottom to the normal depth of the base-flow. The surfaces within the channel above the normal depth of base-flow must be restored according to the velocity and normal depth requirements for a 25-year frequency, 24-hour duration event, whichever is greatest. All rip-rap shall be sized such that the smallest stones will not be displaced by the water velocities resulting from a 25-year frequency, 24-hour duration event. The depth of the rip-rap shall be 1.5 times the smallest stone dimension or 8" whichever is greatest. All riprap shall be underlain by non-woven geotextile fabric. All rip-rap shall be entrenched such that the top of the rip-rap is to the line of the adjacent ground. Where subsurface water movement or excavation below the water table may cause seeps, soil erosion, soil slippage, sloughing, caving or other earth movement, adequate subsurface drainage facilities and permanent surface stabilization measures shall be installed as necessary to prevent slope instability, soil erosion, and sedimentation.

The same end result of structural stability is required for an earth impoundment. The suitability of the in-place foundation soils must be analyzed; the embankment cross-section, soils, compaction, outlet structures, etc. must be engineered to prevent slope instability, piping, seepage, settlement, etc. This also applies to existing earth fills that will be subjected to an increase in the backwater elevation due to an alteration of the drainage structures or due to storm water diversions. Anti-seepage collars must be installed on all impoundment pipe outlets. On the interior surfaces of an impoundment, the permanent stabilization method, materials, plant surfaces, etc. must be carefully chosen to insure that the method is appropriate for the range of water level fluctuations and/or inundation duration and frequency of occurrence. The existing surface cover types must also be analyzed and modified as necessary in areas that are not being disturbed but will be experiencing a change in water velocities, the range of water level fluctuations, and/or inundation duration and frequency of occurrence due to storm water diversions and/or alterations of drainage control structures. The State law requires that all drainage conveyances be designed to prevent erosive velocities, therefore, in the locations where the existing ground surface cover will be subjected to erosive water velocities as a result of this project, the use of energy dissipaters and velocity control structures will be required unless all affected surfaces protected as necessary to prevent long term erosion problems. The plans must show detail drawings of the configuration and dimensions of all rip-rap culvert aprons, energy dissipater, spillways, and down drains. All riprap down drains and impoundment spillways must be engineered using the USDA Natural Resource Conservation Service "Rock Chute" designs method or other appropriate engineered method.

EARTH CHANGE – A human made change in the natural cover or topography of land, including cut and fill activities, which may result in or contribute to soil erosion or sedimentation of the waters of the state, as defined in MCL 324.9101. This shall include without being limited to excavating, filling, stockpiling, grading, clearing, grubbing, and stumping.

STREAM – A natural or artificial river, creek or other surface watercourse which may or may not be serving as a drain (as defined in Act No. 40 of the Public Acts of 1956, as amended by MCL 280.1 et seq.) and which has definite banks, a bed, and visible evidence of the continued flow or continued occurrence of water, including the connecting waters of the Great Lakes [see Michigan Administrative Code R323.1701 (k)]. This includes a ditch, gully, ravine, etc. that is serving as a river, stream or creek.

LAKE – All natural and artificial inland lakes or impoundments that have definite banks, a bed, visible evidence or a continued occurrence of water, and a surface area of water that is equal to or greater than one acre, including manmade ponds greater than one acre Lakes [see Michigan Administrative Code R323.1701 (d)]. "Lake" does not include sediment basins and basins constructed for the sole purpose of storm water retention, cooling water, or treating polluted water.

25-YEAR FREQUENCY, 24-HOUR DURATION EVENT – The amount of rainfall in determining a 25-year frequency, 24-hour duration event is dependent upon the site location and the storm frequency. A 25-year (or 4% chance) event is defined as an event which contributes 4.17 inches of water in a 24-hour period (taken from Michigan Department of Environmental Quality Soil Erosion and Sedimentation Control Training Manual, Soils and Runoff section).

PLEASE NOTE:

- Approval of a permit may take up to two weeks, please turn in all paperwork as soon as possible to ensure that your building project goes smoothly and according to plan.
- Iron County Soil and Sedimentation CEA holds part time, semi-seasonal hours. The CEA will attempt to make every effort to assist you as quickly as possible, and work with your schedule. Please understand due to the nature of the work, our CEA is often in the field during the working hours. If you are unable to reach the CEA directly, the Iron Baraga Conservation District Office Staff will ensure the CEA returns your calls as quickly as possible. (906) 875-3765
- Please keep in contact, and notify the Iron County Soil and Sedimentation CEA as work progresses. You should inform the CEA of any issues you experience, and progress at the site. Typically the CEA will inspect your site before, during, and after completion of work.
- All permitting fees must be paid before permit will be issued. Additional fees arising from negligence will be billed separately if they occur.
- Iron County Soil and Sedimentation is here to help, if you have questions, or issues relating to erosion and sediment controls, please call the office, and we will do our best to help you.

NOTE: Please follow these generally accepted procedures and simple hints to prevent any erosion/sedimentation.

- Keep all excavated material up the grade from excavation and water.
- Clear only what is needed.
- Keep a buffer between development and water.
- If possible work in phases (especially in very sensitive areas).
- Routinely check Temporary Controls (particularly after a rain event).
- Vegetate site as soon as possible.
- Remove Temporary Controls as soon as Permanent Controls are in place and functioning/established.

INFO

Iron County's Soil and Sedimentation Program is administered by the Iron Baraga Conservation District. The Iron Baraga Conservation District office is located in the lower level of the Iron County Courthouse, in Crystal Falls, Michigan. Iron Baraga Conservation District serves the people of Iron and Baraga County, and helps to keep Iron and Baraga County a wonderful place to live, work and play.

Iron Baraga Conservation District can assist with soil conservation, erosion control, no-till drill rental, food plots, planting and gardening information, reforestation, forestry, seedling sales, aquatic invasives, terrestrial invasives, wildlife information, tree and plant identification, recycling, river clean up, and many environmental outreach activities for children and adults.

Please ask for: Jennifer Ricker-Feak, (906) 875-3765

Office hours vary by season, however we are typically open Monday to Thursday 8 am to 2 pm.