

Alternative Tile Intake Cost-Share Program

Traditional open surface tile intakes can be significant contributors of sediment and phosphorus to our streams, ditches, rivers, and lakes. Alternatives to the traditional open inlet are being used more frequently around Minnesota.

The Hawk Creek Watershed Project Alternative Tile Intake Cost-Share Program offers cost-share to landowners to replace traditional open tile intakes with alternative intakes.

75% cost-share on design and installation up to \$500 per intake.

Landowners have the option to choose the alternative intake design that best suits the needs of their fields and operation.



[Read on for more information.](#)

Contact us today for more information!

Hawk Creek Watershed Project

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Hawk Creek Watershed Project

Alternative Tile Intake Cost-Share Program

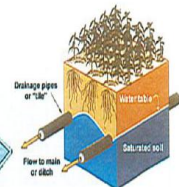


Replace your open tile intake with



a rock or blind tile intake or

pattern tile with open intake removed or



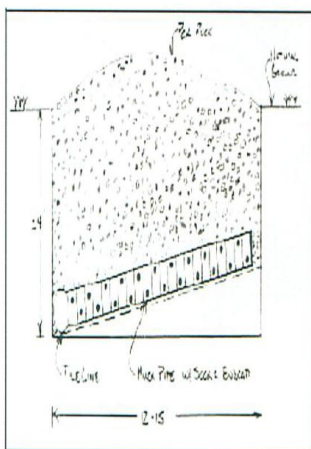
a Hickenbottom tile intake



Alternative Intake Designs

Rock or Blind Intake

This design involves digging a trench, placing drainage pipes in the bottom, and filling the trench with small rock. This slows the flow of water (in comparison to open intakes) and reduces the amount of sediment deposited into streams, ditches, rivers, and lakes. The advantage of this system is that it can be farmable.

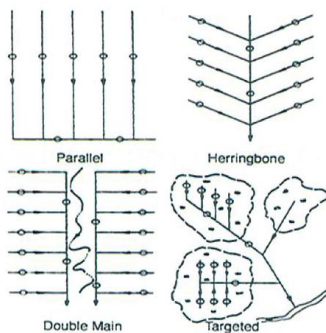


All these designs have the potential to do a better job of protecting water quality than open intakes, while still providing adequate drainage and limiting crop loss.

Pattern Tile with Open Intake Removed

This design involves the installation of subsurface drainage pipes in a very tight pattern or coiled in a small area in the middle of a wet spot.

“Subsurface drainage provides a controlled means for removing excess water from fields, lowering peak flow rates and the total amount of surface runoff. This reduces soil erosion by as much as 65% and phosphorus losses by as much as 45%. Keeping soil and phosphorus in the field keeps them out of surface waters.”



Internet Information:

- * <http://www.extension.umn.edu/distribution/croppersystems/DC7685.html>
- * <http://www.hickenbottominc.com/inlet-intake.htm>
- * <http://www.fairbaultcountyswed.com/FileLib/Rock%20Inlets%20Brochure-Maple%20Watershed.pdf>

Hickenbottom Intake

This technique involves replacing an open intake with a perforated riser.

Each Hickenbottom inlet is made of high-density polyurethane, insuring the longevity and durability of the product. All Hickenbottom inlets, parts, tees, offsets, and risers snap together for installation ease. Risers and inlets may be cut for easy length modification.

Hickenbottom inlets are available in 5, 6, 8, 10, and 12-inch diameters and you may choose from 1-inch holes or 1-inch wide slots according to your project's specifications. A plastic orifice can be easily cut to size to provide the required inlet capacity.

