

Brown County

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This narrative is being generated to document the plan development and BMP installations on Bradley Farms, LLC TRM Grant project. Bradley Farms had received several complaints from the public over several years about land spreading of manure and animal lot runoff. With the recent well water contamination issues in the Town of Cooperstown, Manitowoc County and manure issues; Bradley Farms had applied for a WDNR TRM Grant and was awarded approximately \$63,000. The grant was set up to address winter spreading of manure, feedlot runoff and milk house waste discharges to the road ditch. After investigation of the milk house waste runoff discharge area it was determined that a complete milk house waste treatment system was not needed as waste did not enter waters of the state and was not leaving the owners property untreated. The road ditch was cleaned out, rocked and seeded and allowed to drain north in the road ditch to a culvert where it crosses County HWY R and then spreads out and infiltrates the owners cropped field where the nutrients can be attenuated. The Farm consists of two sites, north and south sites separated by the highway. (See attached WDNR Inspection Summary Document for more details of previous conditions.)

The North Site consists of the truck wash and livestock buildings and an outside concrete feedlot for dairy cattle replacements and beef cattle. This sites existing outside concrete lot has concrete walls which contain the manure and runoff and direct it to one outlet area. This lot was planned to have a picket box, settling basin and filterstrip to treat the runoff. Landowners decided during the planning phase to not do this treatment on the North Site and instead plan to install a roof over the lot (at owners cost) and plug the discharge area which will eliminate the runoff issues with this site and will be done in 2011 construction season.

The South Site consists of livestock buildings, milking center, concrete paved feedlot and pasture for dairy cattle. The cost sharing from the grant was planned to be used entirely on this site. To reduce winter spreading of manure a roofed barnyard/Compost Barn was planned which will function as a feedlot/animal housing/manure storage containing manure and runoff from feedlot. Walls for the roofed barnyard were designed and approved by a licensed engineer. This system will allow for 5-6 months of waste containment. Excess manure can be hauled to approved lands according to their nutrient management plan or to the NEW Organic Digester. Concrete paved lanes were constructed for animal traffic between buildings for heavy use protection and a small sediment basin, pad and filterstrip constructed to contain and treat runoff from the majority of the heavy use areas. (See attached plan view developed by Brown County LWCD for details.) Cost share funds were applied only to eligible concrete flatwork, concrete walls, grading and filling, fencing and seeding associated with the project. Contractor bills were collected to document construction costs for project bmp's.

The 2010 construction season was very rainy and many delays and increased costs occurred due to the wet weather and site conditions. Brown County LWCD inspected the site during various phases of the project to document that installation of the bmp's met plan specifications. All concrete was installed according to plan specifications except for a few minor elevational changes that were discussed and approved by Brown County. The filter areas were rough graded and not fine graded and seeded due to season and wet weather. In the spring of 2011 Brown County will ensure final grading and seeding takes place to finish the project. Overall the project went well and this site is now in compliance with Brown County Animal Waste Ordinance. Shown below are few pictures of the site under construction.

Bradley Farms, LLC has also signed an Operation & Maintenance Plan to ensure all bmp's are maintained, used and repaired as necessary to keep the site in compliance with Brown County Animal Waste Ordinance and original plans and specifications for the project developed by Brown County LWCD. It also states that if the milk house waste discharge area can not be maintained or generates new complaints by the public that Bradley Farms, LLC will have to install a milk house treatment system at their own cost.



Milk House Discharge Cleaned Up



Roofed Barnyard/Compost Barn



Sediment Basin & Heavy Use Lane



Sediment Basin Walls & Heavy Use Lane (Drains to Basin)



Sediment Basin Walls & Settling Pad & Rough Graded Filterstrip



Filterstrip fine grading and seeding to take place in the spring of 2011.