

Step 6: Project Details for Manure Storage Improvements (ESIM-PD-E)

1. Which of the following nutrient management best practices do you adhere to? (Check all that apply)

Manure and other nutrients are applied at a rate to match crop needs

Manure is injected or incorporated within 24 hours of application

A manure sample is taken for nutrient analysis and results are considered in nutrient planning

Manure is never applied to frozen or snow-covered soils

None of the above

2. Prior to commencing work for your manure storage project (e.g., obtaining a Nutrient Management Strategy approval and/or building permit), was the farm operation where your manure storage project is located previously **phased-in** under the Nutrient Management Act?

Yes

No

3. What were your livestock numbers as of April 1, 2018? _____

4. To confirm the appropriateness of the storage, have you attached an approved Nutrient Management Strategy (NMS) that includes the Manure Storage Sizing Calculation (MSTOR) requirements, the Overview of Operation, and the Approval page; **OR** written confirmation of the appropriateness of the project design from a certified nutrient management consultant including the MSTOR calculation (if a NMS is not required for the project)?

Yes

No

5. Why are the proposed manure storage improvements required? (Check all that apply)

I do not have sufficient storage capacity (240 days) for my current, on-farm livestock numbers

I need them in order to obtain a building permit (such as a barn, facility, or addition)

My livestock numbers have increased since April 1, 2018 and I do not have enough storage to accommodate the increased nutrient units

I am relocating a barn/facility away from a waterway, on the recommendation of my local Conservation Authority (letter of recommendation from Conservation Authority is attached)

I need to increase my storage capacity to support a future expansion of my livestock numbers

I need to increase my storage capacity in order to support relocation of offsite livestock to this site or for the addition of offsite livestock to an existing herd (e.g., moving heifers from a rental property to the home farm where there was not previously capacity for them)

Full Name: _____

FBRN: _____

ESIM-PD-E

6. How many nutrient units of livestock will be producing the manure to be stored in the proposed storage? (Select one)

More than 300

300 to 200

199 to 100

99 to 50

Less than 50

7. What is the distance from your manure storage to the nearest surface water? (From Worksheet 8, Question 1 in your 4th edition EFP workbook) (Select one)

Less than 50 metres flowpath (165 ft. flowpath)

50 metres flowpath to 75 metres (165 ft flowpath to 246 ft.)

76 to 150 metres (247 to 500 ft)

Greater than 150 metres (500 ft.)

8. What is the distance from your manure storage to any drainage tile? (From Worksheet 8, Question 4 in your 4th edition EFP workbook) (Select one)

Less than 15 metres (50 ft.) **AND** observation and shut-off station not installed

No evidence of tile being installed near the farmstead **OR** water from all tile within 15 metres (50 ft.) of storage or yard pass through and observation and shut-off station

A trench has been dug verifying all subsurface perforated tile drains are located more than 15 metres (50ft.) away from the yard or storage **OR** all tile within 15 metres (50 ft.) of storage or yard is properly installed with an observation and shut-off station that is routinely monitored for water quality

A trench has been dug verifying that all subsurface perforated tile drains are located more than 30 metres (100 ft.) from yard or storage **OR** all tile water within 15 metres (50 ft.) of storage or yard is collected, stored, and land applied.

Full Name: _____

FBRN: _____

9. What was your rating for the potential for surface water contamination for the project site? (From Worksheet 1, Table 4 in your 4th edition EFP workbook or Table 3 in the online eEFP) (Select one)

1 - High

2 - Moderate

3 - Low

4 - Very Low

10. How many days of storage need to be added to bring your operation up to 240 days capacity? (Select one)

240 to 180

179 to 120

119 to 60

Less than 60

11. How many years out of the last five have you had to apply manure on frozen or snow-covered ground due to insufficient storage? (Select one)

All 5 years

3 to 4 years

1 to 2 years

0

12. Is your project located within the Lake Erie watershed?

Yes

No

Full Name: _____ **FBRN:** _____

Step 7: Additional Funding for Systems Approach

This section is for applicants who would like to be considered for the Systems Approach Funding. To be considered, you must show how the project you are applying for will be complemented or enhanced by the on-going maintenance of previously implemented best management practices (BMPs). If this applies to you, please answer the questions for at least 3 of the BMPs below. If you provide satisfactory answers for at least 3 BMPs, you may receive an additional 5 percent in cost-share funding.

NUTRIENT MANAGEMENT AND SOIL HEALTH PLANNING	
What year did you complete at least one of the following plans: Crop Nutrient Plan Nutrient Management Plan Riparian Health Assessment Soil Erosion Plan Water/Wastewater Management Plan	
What type of advisor did you use for your planning?	
Does the plan contribute to your ongoing production practices?	Yes No
What township was the plan implemented in?	
COVER CROPS	
Do you use cover crops annually?	Yes No
If no, what was the most recent year you used cover crops?	
How many acres do you use cover crops on annually?	acres owned acres rented
Have you used a cover crops species that flowers?	Yes No
If so, did you allow the cover crops to flower before termination?	Yes No
Are your cover crops typically left in the field over winter?	Yes No
What township was this implemented in?	
RIPARIAN BUFFER STRIPS	
What is the length and width of your riparian buffer strip?	metres length metres width
What year did you plant your most recent buffer strip?	
What township was this implemented in?	

WINDBREAKS AND WINDSTRIPS	
How many acres of fields are protected by windbreaks/wind strips: (e.g., 50 acre field with windbreaks = 50 acres)	acres owned acres rented
What year did you last plant a windbreak or wind strip?	
Do the plants in the windbreak or wind strip provide food sources (such as flowers), nesting sites or host plants for pollinators?	Yes No
Do you perform annual maintenance on your windbreak(s)/wind strip(s)?	Yes No
What township was this implemented in?	
FRAGILE LAND RETIREMENT	
Please indicate the number of acres of fragile land you have retired in the last 5 years	acres
Do the plants on your retired fragile land provide food sources (such as flowers), nesting sites or host plants for pollinators?	Yes No
What township was this implemented in?	
STRUCTURAL EROSION CONTROL	
When was the erosion control structure implemented?	
Was the erosion control structure designed by an engineer?	Yes No
What township was this implemented in?	
NUTRIENT RECOVERY FROM WASTEWATER OR WASH WATER	
How many nutrient unit equivalents do you contain or manage?	
How many litres of water are treated and/or recycled?	
What year was the water recovery system installed in?	
What township was this implemented in?	

TILLAGE AND NUTRIENT APPLICATION EQUIPMENT MODIFICATIONS	
How many acres are under no-till practices?	acres owned acres rented
How many years have no-tillage practices been implemented?	
How many acres are under strip-till practices?	acres owned acres rented
How many years have strip-tillage practices been implemented?	
Do you have 3 or more crops in your rotation?	Yes No
What township was this implemented in?	
EQUIPMENT MODIFICATIONS TO REDUCE SOIL COMPACTION	
Do you have an on-the-go tire inflation system?	Yes No
If yes, when was the system installed?	
Do you use high flotation tires to reduce soil compaction?	Yes No
If yes, how many acres are impacted through use of this equipment?	acres owned acres rented
What township was this implemented in?	
ADDING ORGANIC AMENDMENTS TO SOIL	
How many acres do you apply organic amendments to?	acres owned acres rented
What type of material do you apply to your fields? (Check all that apply)	Manure Biosolids Compost Anaerobic digestate Other, specify:
Is adding organic amendments a regular annual practice for your farm?	Yes No
If no, what was the most recent year you used this practice?	
What township was this implemented in?	

EQUIPMENT MODIFICATIONS TO IMPROVE MANURE APPLICATION	
How did you modify equipment to better apply organic amendments? (Check all that apply)	Direct injection Below canopy Incorporation or pre-tillage Better rate and flow accuracy Safety controls and monitoring
What was the most recent year you modified equipment for the application of organic amendments?	
Since the equipment was modified, has it been used in each year of production?	Yes No
How many acres are impacted by the use of this equipment	acres
What township was this implemented in?	
MANURE STORAGE IMPROVEMENTS	
Has increasing storage capacity helped reduce soil compaction by allowing you to apply manure at the right time?	Yes No
Has increasing storage capacity helped to eliminate the need to spread manure on frozen or snow-covered ground?	Yes No
What year did you increase your manure storage capacity to a minimum of 240 days?	
Did increasing storage capacity allow you to increase nutrient use efficiency?	Yes No
What township was this implemented in?	
RUNOFF CONTROL FOR LIVESTOCK FACILITIES	
Has a livestock yard been roofed or a covered yard been built within the last 5 years to prevent runoff?	Yes No
Have you installed any of the following within the last five years?	Engineered livestock runoff vegetated filter strip Constructed wetland
Have impermeable surfaces and concrete curb walls been installed or included to direct runoff to storage or treatment areas?	Yes No
Did you create an upstream diversion around existing farmyards? (e.g., surface water diversions, berms, surface inlet [catch basin], eaves troughs on existing livestock buildings to divert clean water from entering the livestock yard)	Yes No
Did you build storage for runoff or silage leachate?	Yes No
Did you create observation and shut-off stations and/or plug tile drains within 15 meters of livestock facilities	Yes No
How many nutrient units are managed by runoff control?	
What township was this implemented in?	