Nutrient Management Strategy
Tri Kemp (Fall 2013 - Fall 2018)

General Information
Please ensure you retain a copy of the completed NM Strategy (and NM Plan, if applicable) for your records. Please note, approved documents will not be returned. It is your responsibility to keep copies of the documents that comprise your approved NMS. You will be contacted by OMAFRA staff if you are required to provide additional information during the review process. Upon approval, your NMS strategy is valid for a period of 5 years. At that time, you are not required to resubmit, but are required to update the NMS strategy and to keep it on file and available for inspection, if requested.

Reason for Submission
This document is being submitted for approval
Other: none

Preparer Information
Ruth Krohn, 6AGSPDC101424
Organic Consultant Inc.
P.O. Box 514
Tecumseh, ON, Canada N9G 2S3
Phone: 519-732-7776
Email: organiconconsultants@gmail.com

Agricultural Operation Information
Federal Business Number: 840309
Operation Type: Corporation
Legal Farm Name: Tri Kemp Holdings Inc
Operator Contact Information
Jacob Kamphuis
397 43 17th Line
RR 1
Orangeville, ON, Canada L9W 2Y6
Phone: 519-943-8615
Owner is the same as the operator

NMS Summary
This farm unit has previous N4-SM or NMS submission IDs:
11701
Total Tilled Area: 141 ac
Total Nutrient Units: 185.7 Nu
Municipal well(s) do not exist within 100 m of the farm unit.
A N4P has not been required for this farm unit in the past.
A N4P is not required for this farm unit, but recommended as a BMP.
Storage groups with less than 240 days of storage:
None
Hauled/Spaining storages that require engineering:
None
Storages that require runoff management:
None

Farm Unit Summary
Home Farm

This farm is a:
ASRM Generator
ASRM Rockstar
Commercial Fertilizer Receiver
Status: Owned
Tillable Area: 141 ac

Farm Location
County of Dufferin: Township of East Garafraxa
GARAFARXA, Concession 10, Lot 3 (ASRM Generator)
GARAFARXA, Concession 13, Lot 4
Roll Numbers: 026-00029071-000080

NMAN 3.2 | 5
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General Information
Please ensure you retain a copy of the completed NM Strategy (and NM Plan, if applicable) for your records. Please note, approved documents will not be returned. It is your responsibility to keep copies of the documents that comprise your approved NMS. You will be contacted by OMAFRA staff if you are required to provide additional information during the review process. Upon approval, your NM Strategy is valid for a period of 5 years. At that time, you are not required to resubmit, but are required to update the NM Strategy and to keep it on file and available for inspection, if requested.

Reason for Submission
This document is being submitted for approval
Other: renewal

Preparer Information
Ruth Knight (#AOSPDC10042 )
Organic Consultant Inc
P.O. Box 514
Teeswater, ON, Canada NOG 2S0
Phone #1: 519 392 7036
Phone #2: 519 357 5224
Email: organicconsultantinc@gmail.com

NMS Summary
This farm unit has previous NASM or NMS submission ID’s: 11761
Total Tillable Area: 141 ac
Total Nutrient Units: 185.7 NU
Municipal well(s) do not exist within 100 m of the farm unit
A NMP hasn’t been required for this farm unit in the past
A NMP is not required for this farm unit but recommended as a BMP
Storage groups with less than 240 days of storage:
None
New/expanding storages that require engineering:
None
Storages that require runoff management:
None

Agricultural Operation Information
Federal Business Number: 840280
Operation Type: Corporation
Legal Farm Name: Tri Kamp Holsteins Inc
Operator Contact Information
Jacob Kamphuis
351143 17th Line
RR 2
Orangeville, ON, Canada L9W 2Y9
Phone #1: 519 940 9615
Owner is the same as the operator

Farm Unit Summary

Home Farm
This farm is a:
ASM Generator
ASM Receiver
Commercial Fertilizer Receiver
Status: Owned
Tillable Area: 141 ac

Farm Location
County of Dufferin, Township of East Garafraxa
GARAFRAXA, Concession: 18, Lot: 3 (ASM Generator)
GARAFRAXA, Concession: 18, Lot: 4
Roll Number(s) 220100003071000000

NMAN 3.2.1.5 Page 1 of 7 April 12, 2014 3:28 PM 606526
Storage System Summary

Liquid
September 2013 - August 2018
Cows and Heifers

Total Nutrient Units: 138.1 NU
* Material amounts are for the duration of the plan (5 years)

Source Material

- Cows
  Dairy, Milking Age Cows Large Frame, 4 Row Free Stall Head To Head
  90 (max) @ 1450 lb (128.6 NU)
  100% utilization
  Estimated Barn Area: 11250 ft²

- Heifers
  Dairy, Heifers Large Frame, Free Stall
  19 (max) @ 650 lb (9.5 NU)
  100% utilization
  Estimated Barn Area: 1425 ft²

- Milkhouse Wash
  Milking Centre Washwater
  90 milking livestock (Dairy)
  Robotic, Brush Teat Cleaning

Material Production (5 years)

- Liquid: 444798 ft³, 9.1% DM (Liquid) *
- Liquid: 25798 ft³, 11% DM (Liquid) *
- Liquid: 63910 ft³, 1% DM (Liquid) *

Dimensions

- Liquid: 73176 ft³, 250 days
  Under barn pit
  Liquid, Rectangular, Covered (Existing)
  Storage Capacity: 71736 ft³, 245.1 days
  Material: 71736 ft³
  Rainfall: 0 ft³

- Gutters
  Liquid, Rectangular, Covered (Existing)
  Storage Capacity: 1440 ft³, 4.9 days
  Material: 1440 ft³
  Rainfall: 0 ft³

- Depth (z): 8 ft
- Freeboard: 1 ft
- Length (x): 120 ft
- Width (y): 85.4 ft

- Depth (z): 4 ft
- Freeboard: 1 ft
- Length (x): 40 ft
- Width (y): 12 ft

Utilization

- Liquid
  Outgoing Transfers: 60%
  From:
  Liquid (Liquid)

Material Production (5 years)

- Liquid, 8.2% DM
  534506 ft³, 3329331 gal *
  106901 ft³/year, 665866 gal/year (avg)
Solid
September 2013 - August 2018
Heflers and calves and maternity pens
Total Nutrient Units: 47.7 NU
* Material amounts are for the duration of the plan (5 years)

Source Material

Calves
Dairy, Calves Large Frame, -
16 (max) @ 200 lb (2.7 NU)
100% utilization
Estimated Barn Area: 560 ft²

Heifers pack
Dairy, Heifers Large Frame, Pack Scrape 1 Side
90 (max) @ 650 lb (45 NU)
100% utilization
Estimated Barn Area: 9000 ft²

Material Production (5 years)
Solid: 18477 ft³, 45.5% DM (Solid) *
Solid: 121498 ft³, 40.2% DM (Solid) *

Dimensions
Average Depth: 0.67 ft
Wall Height (z): 4 ft
Length (x): 64 ft
Width (y): 6 ft

Average Depth: 7 ft
Wall Height (z): 6 ft
Length (x): 56 ft
Width (y): 30 ft

Average Depth: 1 ft
Wall Height (z): 4 ft
Length (x): 40 ft
Width (y): 18 ft

Average Depth: 2.5 ft
Wall Height (z): 4 ft
Length (x): 150 ft
Width (y): 24 ft

Storages

Solid: 21737 ft³, 283.6 days

- calf pens
  Solid, Rectangular, Covered (Existing)
  Storage Capacity: 257 ft³, 3.4 days
  Material: 257 ft²
  Rainfall: 0 ft³

- manure pit
  Solid, Rectangular, Covered (Existing)
  Storage Capacity: 11760 ft³, 153.4 days
  Material: 11760 ft³
  Rainfall: 0 ft³

- Maternity Pens
  Solid, Rectangular, Covered (Existing)
  Storage Capacity: 720 ft³, 9.4 days
  Material: 720 ft³
  Rainfall: 0 ft³

- heifer pack
  Solid, Rectangular, Covered (Existing)
  Storage Capacity: 9000 ft³, 117.4 days
  Material: 9000 ft³
  Rainfall: 0 ft³

Utilization

Solid
Outgoing Transfers: 66.6%

Material Production (5 years)
Solid, 40.8% DM
139975 ft³, 3079 ton *
27995 ft³/year, 616 ton/year (avg)
Transfer Contacts

Tri Kamp
Tri Kamp Holsteins
no livestock no other ag or non ag materials operated by Tri Kamp Holsteins Inc
Transfer Type: Non-NMA Strategy/Plan
Outgoing Transfers
Tillable Area: 265 ac
Livestock does not exist on this property

Contact Information
Tri Kamp Holsteins Inc
351143 17th Line
RR 2
Orangeville, ON, Canada L9W 2Y9
Phone #1: 519 940 9615

Location Information
County of Dufferin, Township of East Garafraxa
GARAFRAXA, Concession: 17, Lot: 1
GARAFRAXA, Concession: 17, Lot: 2
GARAFRAXA, Concession: 17, Lot: 3
GARAFRAXA, Concession: 18, Lot: Pt Lot 2 E Pt Lot 3

Roll Number(s)
22010000030670000000
22010000030680000000
22010000030380000000
22010000030650000000
22010000030960000000

Outgoing Transfer Summary

<table>
<thead>
<tr>
<th>Material</th>
<th>Transfer Contact</th>
<th>Date</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Liquid</td>
<td>Tri Kamp</td>
<td>Sep 1, 2013 - Aug 31, 2018 (Yearly)</td>
<td>1997600 gal (39952 gal X 5)</td>
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<tr>
<td>Solid</td>
<td>Tri Kamp</td>
<td>Sep 1, 2013 - Aug 31, 2018 (Yearly)</td>
<td>2050 ton (410 ton X 5)</td>
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</tbody>
</table>

Flag Summary

Proof of Incorporation (Tri Kamp)
The farm business number or corporate profile must be provided.

Manure Bedding Amount User Override (Calves)
The amount of bedding in the manure has been adjusted by 254%.

Manure Bedding Amount User Override (Heflers pack)
The amount of bedding in the manure has been adjusted by 100%.

Unlisted Concession/Lot (Tri Kamp)
Include proof of concession and/or lot
Appendix A

NMS Approvals Submission

Please provide the following documents in the same order as listed:

1. Overview of the Operation
   Please provide a description of the operation including the following:
   1. Reason for submission (expanding operation, new operation, planned changes).
   2. Type and size of the operation.
   3. Overview of livestock/poultry facilities and practices that impact nutrient management, e.g. all in/all out; feed additives used.
   4. Prescribed material produced or received including all Non-Agricultural Source Material (NASM).
   5. Overview of cropping and management practices.

2. Farmstead Sketch (attach sketch and label clearly)
   Farmstead Sketch (The farmstead sketch(s) may be an aerial photo, computer generated or hand drawn and must include/address the following items, either by including them on the sketch, or indicating on the sketch that they do not exist. Sketch should be readable and include north arrow)
   a. Location of generation facilities and storage(s):
   1. Permanent, temporary and proposed generating facilities
   2. Permanent, temporary and proposed storage facilities and sites
   3. Dimensions of all generating and storage facilities and sites
   b. Distance from sensitive features to the nearest permanent nutrient storage/generating facility, including:
      i. Known wells (includes gas, oil, test and water wells)
      ii. Municipal wells
      iii. Tile inlets
      iv. Surface water (as defined in Part I of O.Reg. 287/03)
   c. For nutrient storages within 50 m of surface water, show a Flow Path of at least 50 m to surface water or tile inlet.

3. Additional Storage Information
   Please include the following if necessary:
   a. If runoff management is required for one or more solid storage facilities, complete and attach the Runoff Management Checklist available at www.ontario.ca/omafra.
   b. If temporary storage is required, complete and attach the Temporary Storage Checklist available at www.ontario.ca/omafra.
   c. For new and expanding prescribed material storage facilities, attach an Engineer's Commitment Certificate or Engineering Requirement Form. The Engineering forms are not required for a permanent, solid nutrient storage facility that has (O.Reg. 267/03, Section 62):
      i. a volume less than 600 m³
      ii. a surface area less than 600 m² and
      iii. walls that do not have an exposed height of more than 1 m
   d. If the number of days of storage is less than 240, attach a detailed description showing how the prescribed materials will be managed within the storage capacity of the operation.

4. Transfer Information
   Nutrient Management Protocol States:
   Any Agreements required by the strategy must be signed and copies attached to the NMS. There are two types of agreements recognized by the regulation. Broker Agreement + Nutrient Transfer Agreement
Appendix B
Other Information

Please include any other information that pertains to the Nutrient Management Strategy that is not part of the NMAN printout or Appendix A.
<table>
<thead>
<tr>
<th>M/D/Y</th>
<th>FIELD NUMBER and ACRES</th>
<th>MANURE APPLICATION RATE</th>
<th>INCORPORATION DETAILS</th>
<th>WEATHER CONDITIONS</th>
<th>TOTAL VOLUME</th>
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Farm Unit Declaration Form & NMS/P Signoff Form

The undersigned declares that the information contained in this Nutrient Management Plan and/or Nutrient Management Strategy:
1. identifies the Farm Unit on which the operations to which this strategy or plan applies is carried out;
2. provides an accurate description of the Agricultural Operation;
3. has been completed in accordance with the Regulation, the Nutrient Management Protocol and the Sampling and Analysis Protocol;
4. contains a contingency plan consistent with the Nutrient Management Protocol, part 12; and
5. is complete.

Signatures

Ruth Knight (#AOSPDC10042 )  
Plan Preparer  
Signature  
Date (yyyy/mm/dd)  

Jacob Kamphuis  
Owner of the Agricultural Operation  
Signature  
Date (yyyy/mm/dd)  

Notice

Information collected for the NMS/P is about your farm business and is collected under the Nutrient Management Act, S.O. 2002, c.4, as amended and its regulations. It will be to identify the operation as subject to provisions under the Nutrient Management Act. The information may be shared with other ministries, municipalities and external experts for the purposes of approval, administration of the program, inspection and enforcement. Information from this form may be made available for program or policy evaluation and research related to nutrient management, environmental management or agricultural issues. Under the Nutrient Management Act this document may be made available in a public registry. All information may be subject to disclosure under the Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c.F.31 and may be made available on request.

Questions about this collection should be directed to the Manager, Approvals, Certification and Licensing, Environmental Management Branch, Ministry of Agriculture, Food and Rural Affairs, 1 Stone Road West, Guelph ON N1G 4Y2, Telephone: (519)823-6368.
FARM UNIT OPERATOR RECORD OF ANNUAL REVIEW

The farm operator has reviewed the nutrient management strategy/plan. The operator has implemented the nutrient management strategy and/or plan as proposed to the best of his/her abilities. The farm operator has reviewed the following items and inserted updates as deemed appropriate.

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<thead>
<tr>
<th>A. WRITTEN DESCRIPTION</th>
<th>Changes</th>
<th>Notes</th>
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<tr>
<td>-written description has been reviewed</td>
<td>☐ Yes ☐ No</td>
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<tr>
<td>-note changes in livestock numbers</td>
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<td>-note changes in storage requirements</td>
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<th>B. CONTINGENCY PLAN</th>
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<tr>
<td>-contingency plan has been reviewed and updated</td>
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<th>C. FARMSTEAD</th>
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<td>- maps have been reviewed and are accurate,</td>
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<tr>
<td>-record any changes to wells &amp; drains near buildings/manure storage</td>
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<td>-integrity of manure storage recorded</td>
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<th>D. FIELD INFORMATION AND LAND APPLICATION</th>
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<tbody>
<tr>
<td>-buffer requirements have been met</td>
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<td>-crop fertility plan reflects nutrients applied</td>
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<td>-application equipment maintained</td>
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<td>-custom operators have appropriate license</td>
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<th>E. ADMINISTRATIVE COMPLIANCE WITH NUTRIENT MANAGEMENT ACT</th>
<th>Changes</th>
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<td>-crop records updated</td>
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<td>-soil tests updated (max 5 yr interval)</td>
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<td>-changes in land base</td>
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<table>
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<tr>
<th>F. OTHER NOTES</th>
<th>Changes</th>
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Signature Operator Date