



TECHNICAL REVIEW COMMITTEE

A TECHNICAL REVIEW REPORT

PREPARED FOR

**THE RURAL MUNICIPALITY
OF RITCHOT**

Moonfleet Layer Farms

SE 1/4 20-8-4 EPM

TRC 12-086

January 27, 2022

A. INTRODUCTION – THE TEAM

The Technical Review Committee (TRC) is supported by the following department personnel:

Agriculture and Resource Development (ARD)

- Aggregate Resource Planner
- Agricultural Engineer
- Business Development Specialist
- Crown Lands Manager
- Fish Habitat Specialist
- Groundwater Specialist
- Habitat Mitigation and Wildlife Land Specialist
- Land-Water Specialist
- Livestock Environment Specialist
- Nutrient Management Specialist
- Veterinarians

Conservation and Climate (CC)

- Environmental Engineer
- Environment Officer
- Water Rights Licensing Technologist

Infrastructure (MI)

- Senior Development Review Technologist
- Senior Flood Protection Planning Officer

Municipal Relations (MR)

- Community Planners

And any other specialist or department that may have an interest, which may be consulted during the process.

THE TECHNICAL REVIEW COMMITTEE (TRC) REPORT

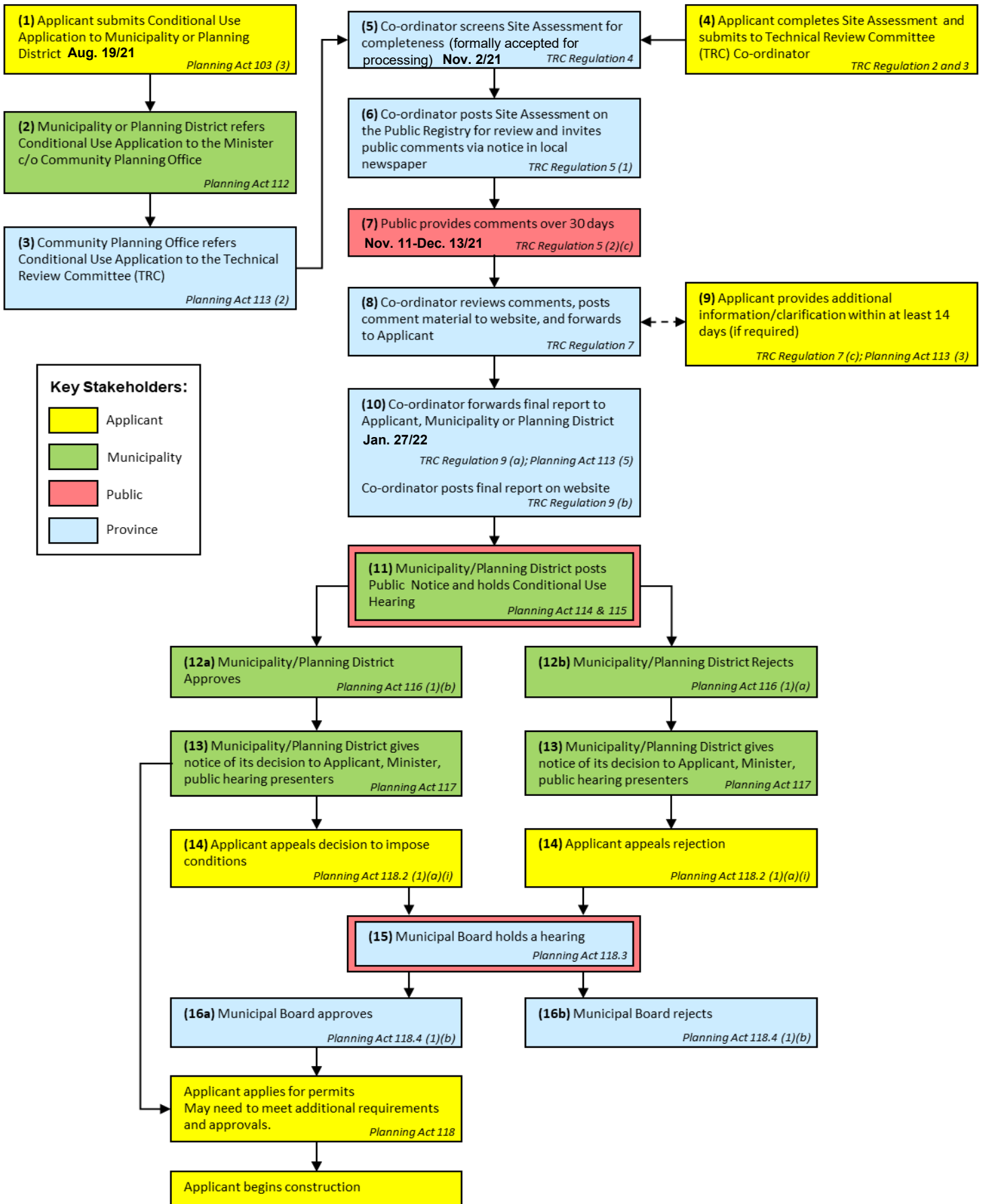
Purpose of TRC Reports

To provide objective, credible, technically-based assessments that:

- a) Enable municipal councils or planning districts to make informed Conditional Use Permit decisions;
- b) Create a common stakeholder understanding of a livestock proposal, potential impacts and related regulatory requirements and safeguards;
- c) Provide a vehicle/forum that enables the sharing of public concerns and proponent responses;
- d) Offer recommendations to both municipal councils, planning districts and proponents; and
- e) Represents the fulfillment of the TRC's role as per 116(1)(b)(i) of *The Planning Act* – to determine, based on available information, that the proposed operation will not create a risk to health, safety or the environment, or that any risk can be minimized through the use of appropriate practices, measure and safeguards.

Should the municipal council provide conditional approval of the proposal, the project proponent may be required to obtain various permits and licenses from the province to address in greater detail environmental aspects of the proposal. As of November 1, 2019, a proponent may appeal a municipal council's rejection of their application or appeal a condition imposed related to municipal council's approval. Appeals are made to the Municipal Board.

Livestock Technical Review Process (November 1, 2019)



B. DESCRIPTION OF PROPOSED LIVESTOCK OPERATION

Further information can be found at https://www.gov.mb.ca/mr/livestock/public_registries.html

Applicant: Moonfleet Layer Farms

Site Location: SE ¼ 20-8-4 EPM

Proposal: To expand poultry operation by adding 66,000 (218 AU) to an existing operation of 120,000 layers (996 AU).

This will involve the following:

- Alteration of existing barn.
- Constructing a solid manure storage facility.
- Consuming a maximum of 10,164 imperial gallons of water per day from an existing well.
- Composting mortalities.
- Using truck haul routes as shown in map below.

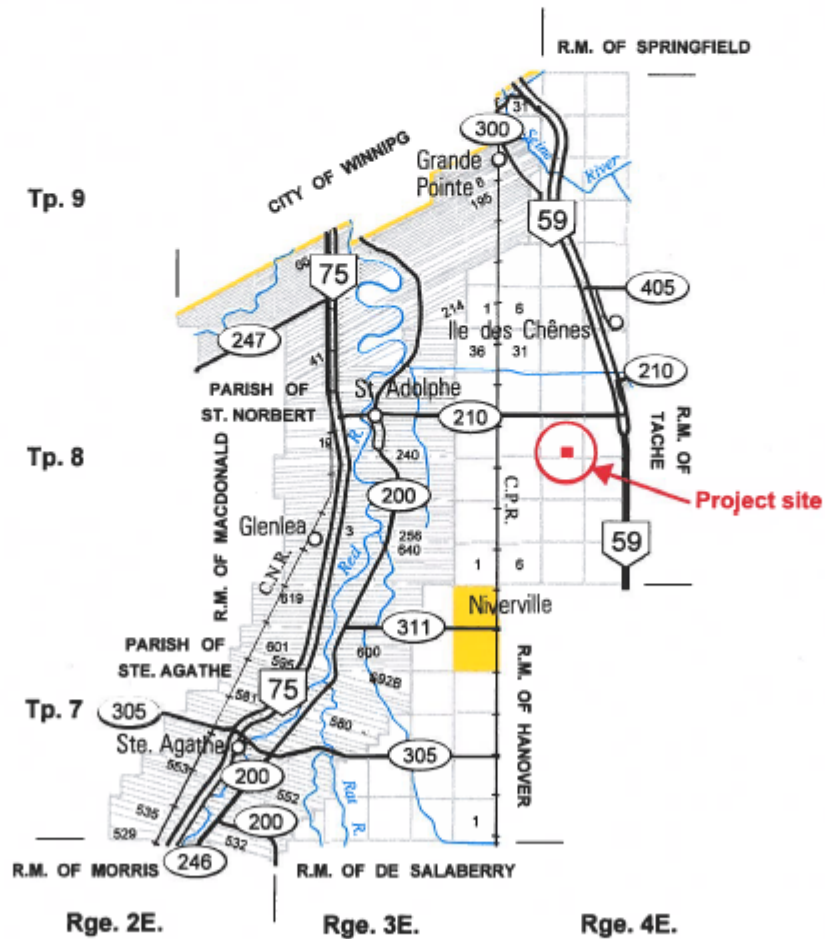


R.M. OF RITCHOT

PROVINCE OF MANITOBA
INFRASTRUCTURE
HIGHWAY PLANNING AND DESIGN BRANCH
GEOGRAPHIC & RECORDS MANAGEMENT SECTION
WINNIPEG
JANUARY 2015

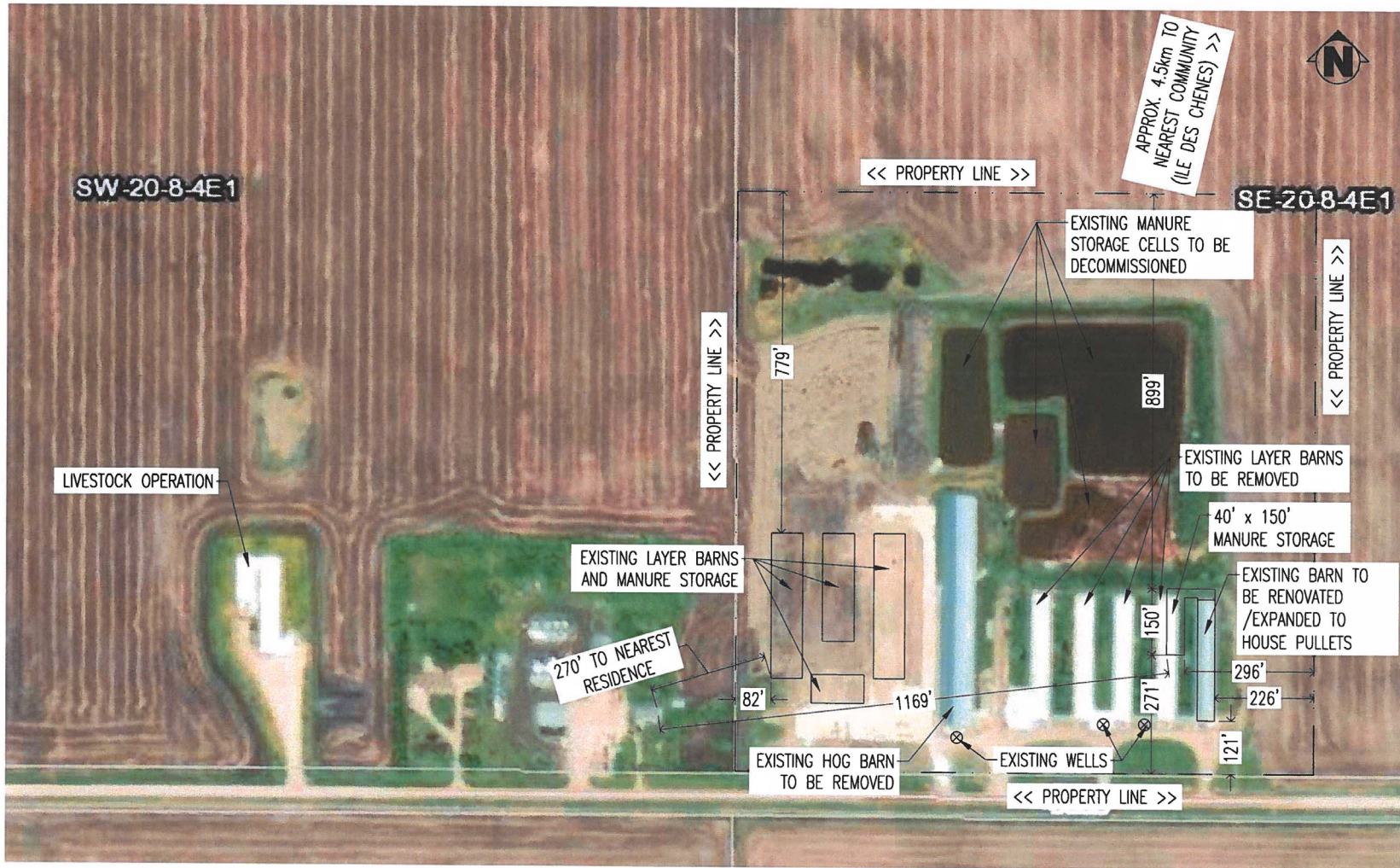
LEGEND


PROVINCIAL TRUNK HIGHWAYS		ACCESS ROADS	
PROVINCIAL ROADS		RAILWAYS	

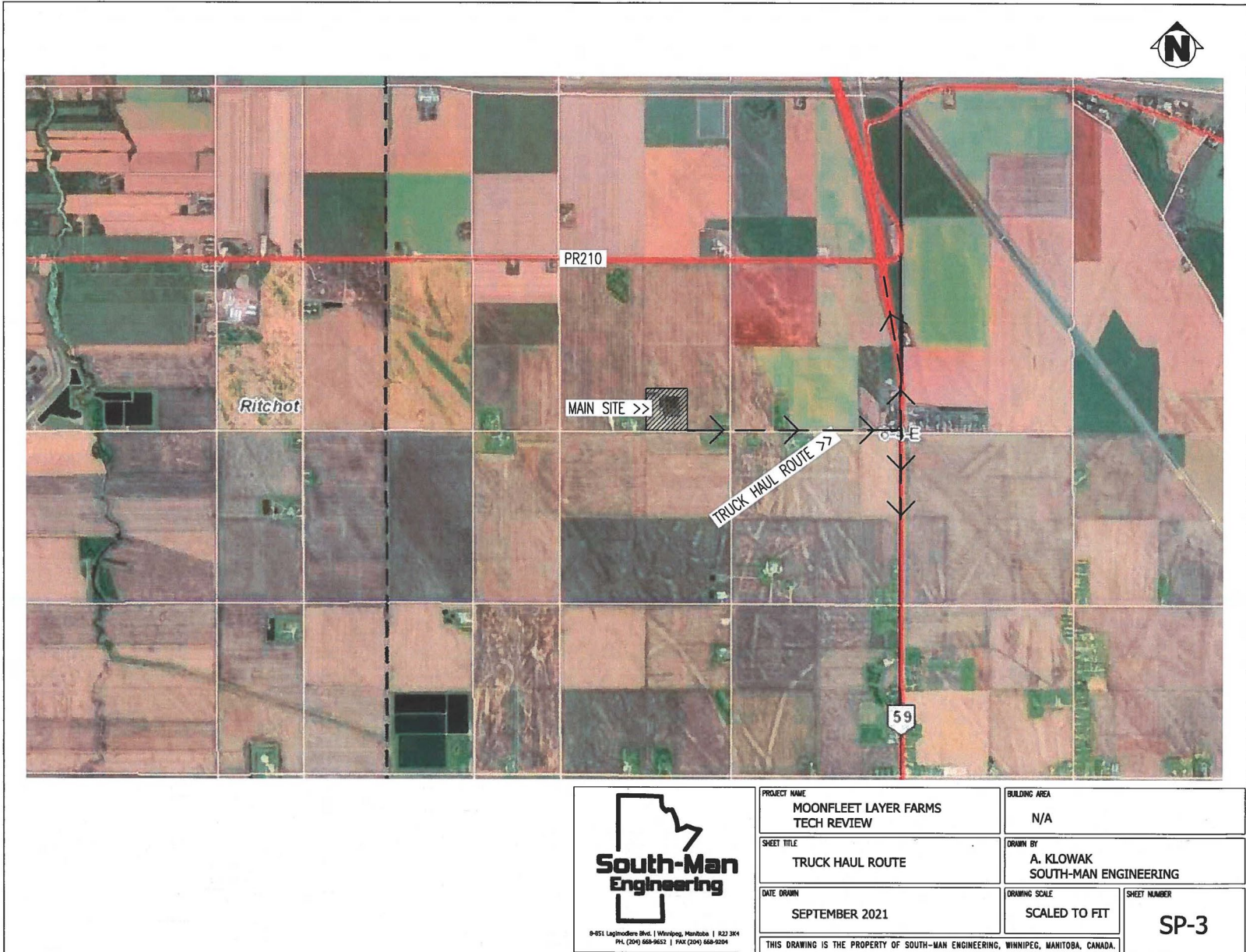


Moonfleet Layer Farms
SE 20-8-4E
RM of Ritchot

SHEET 1 of 1



 <p>South-Man Engineering</p> <p><small>8-851 Legionnaire Blvd. Winnipeg, Manitoba R2J 3K4 PH: (204) 668-9652 FAX: (204) 668-9204</small></p>	<p>PROJECT NAME</p> <p>MOONFLEET LAYER FARMS TECH REVIEW</p>	<p>BUILDING AREA</p> <p>N/A</p>
	<p>SHEET TITLE</p> <p>SITE PLAN</p>	<p>DRAWN BY</p> <p>A. KLOWAK SOUTH-MAN ENGINEERING</p>
	<p>DATE DRAWN</p> <p>SEPTEMBER 2021</p>	<p>DRAWING SCALE</p> <p>SCALED TO FIT</p>
	<p>THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WINNIPEG, MANITOBA, CANADA.</p>	



PROJECT NAME MOONFLEET LAYER FARMS TECH REVIEW	BUILDING AREA N/A	
SHEET TITLE TRUCK HAUL ROUTE	DRAWN BY A. KLOWAK SOUTH-MAN ENGINEERING	
DATE DRAWN SEPTEMBER 2021	DRAWING SCALE SCALED TO FIT	SHEET NUMBER SP-3
THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WINNIPEG, MANITOBA, CANADA.		

C:\Users\justin.Vokay\Desktop\Andrew files (Olisa)\SME Projects\2019\MOONFLEET LAYER FARMS\MOONFLEET TECH REVIEW\MOONFLEET LAYER FARMS_TECH REVIEW_rev01.dwg

C. SITE ASSESSMENT OVERVIEW

Provincial Technical Overview of TRC 12-086 – Moonfleet Layer Farms				
Item No.	Provincial Requirements	Confirmed	Related Provincial Safeguards	Dept.
1	Submitted complete site assessment	X	Technical Review Committee Regulation 119/2011 requires an applicant to submit a completed site assessment.	MR
2	Clearly identified the current and proposed type and number of animals and animal units	X	Moonfleet Layer Farms is currently seeking Conditional Use approval to convert the existing animal units to poultry including 120,000 layers and 66,000 pullets (for a total of 1214 AU) using two new layer barns, renovating one existing poultry barn and removing 4 existing poultry barns and one pig barn. The earthen liquid manure storage facility will also be decommissioned.	ARD ¹
3	Project clearly defined as animal confinement facility	X	Existing 996 AU and additional 218 AU which is equal to 1214 AU.	CC
4	Identified all existing and proposed buildings and structures and related separation distances	X	<p>The existing layer barns and manure storage facility at the western edge of the property do not meet the separation distance required between a residence and an animal confinement facility/ non-earthen manure storage facility, as the nearest residence is 270 feet. The RM of Ritchot Zoning By-law requires 984 feet for 1,214 AU livestock operation. A variation order will be required.</p> <p>The existing pullet barn and proposed manure storage facility at the eastern edge of the property meets the separation distance between a residence and an animal confinement facility/ non-earthen manure storage facility. All existing and proposed barns and manure storage facilities meet the separation distance between an animal confinement facility/ non-earthen manure storage facility and a Designated Area (Ile des Chenes).</p>	MR
5	Demonstrated project site is not located within Nutrient Management Zone N4 or any Nutrient Buffer Zone	X	The project site is not located within Nutrient Management Zone N4 or any Nutrient Buffer Zone.	ARD ²
6	Identified suitable water source: existing well and a water consumption rate of 10,164 imperial gallons per day	X	The project currently holds a valid Water Rights Licence with the Water Use Licensing Section; however, they need to submit an application to amend the existing licence in order to include the additional animals.	CC

¹ Agri-Resource Branch

² Water Science and Watershed Management Branch

Provincial Technical Overview of TRC 12-086 – Moonfleet Layer Farms

Item No.	Provincial Requirements	Confirmed	Related Provincial Safeguards	Dept.
7	Proposed project site meets development plan, zoning by-law	X	<p><i>The Planning Act</i> requires that development plans must include a livestock operation policy that guides zoning by-laws dealing with livestock operations.</p> <p><i>The Planning Act</i> requires municipalities to issue development permits for any development on a site. All development must comply with the Zoning By-law and Development Plan. Any proposed development that does not meet the separation distances or setbacks requires Council approval and a public process to vary those requirements.</p> <p>Designation The proposed livestock operation, located in the SE ¼ 20-8-4 EPM in the RM of Ritchot, is designated Green/Agricultural Policy Area (Macdonald Ritchot Planning District Development Plan By-law No. 2/10). The proposed site is also identified as a Limited Livestock Management Area in the Development Plan. The Limited Livestock Management Area allows for the expansion of existing livestock operations that are over 10 animal units in size with a Conditional Use Order but does not permit the establishment of new livestock operations over 10 animal units. The proposed livestock operation complies with the General Livestock Policies of Development Plan Section 4.4.1 and Limited Livestock Management Area policies of Development Plan Section 4.4.3.</p> <p>Zoning The proposed site is zoned “AG” Agricultural General Zone (RM of Ritchot Zoning By-law No. 9-2019) and has a minimum site area requirement of 80 acres with a minimum site width requirement of 600 feet. The proposed project complies with the RM of Ritchot Zoning By-law, as Variance Order No. 9-2019 was approved on August 21, 2019 to vary the minimum site area from 80 acres to 40 acres.</p>	MR
8	Identified any unsealed abandoned wells on the project site or spread fields	X	<p>The proposal identifies that the water use for the livestock operation is from an existing well at SE ¼ 20-8-4E. The provincial water well database contains information for an existing well on the proposed property. The proposal indicates that there are no unused wells in the spread fields. If unused water wells in the site or spread fields are later located these shall be properly sealed and a sealed well report must be filed with the Groundwater Management Section of Agriculture and Resource Development. Information on well sealing and well sealing reports are available from Agriculture and Resource Development (204-945-6959) or: https://gov.mb.ca/water/groundwater/wells_groundwater/index.html.</p> <p>A well drilling professional should seal all but the most basic wells. A list of currently licensed well drilling professionals can also be accessed from the above web page.</p> <p>During manure spreading, the set back distances to all groundwater features as prescribed under the Environment Act Livestock Manure and Mortalities Management Regulation should be considered as a minimum distance.</p>	ARD ³

³ Water Science and Watershed Management Branch

Provincial Technical Overview of TRC 12-086 – Moonfleet Layer Farms

Item No.	Provincial Requirements	Confirmed	Related Provincial Safeguards	Dept.
9	Identified suitable manure storage methods	X	A permit to construct the proposed manure storage facility must be obtained, prior to initiating any of the construction work, in accordance with the Livestock Manure and Mortalities Management Regulation. An application for a permit to construct the manure storage facility must be submitted to Environmental Approval Branch of Conservation and Climate (EABDirector@gov.mb.ca). Design guidelines and application forms are available at: https://www.gov.mb.ca/sd/waste_management/livestock_program/index.html .	CC
10	Identified acceptable manure application methods	X	The proponent must submit and adhere to a manure management plan approved for the facility per the Livestock Manure and Mortalities Management Regulation (MR 42/98).	CC
11	Mortalities disposal methods identified (composting)	X	The proponent has indicated that mortalities will be composted. This is considered acceptable under the Livestock Manure and Mortalities Management Regulation. More specific information is included in the Livestock Manure and Mortalities Management Regulation and at: https://www.gov.mb.ca/sd/waste_management/livestock_program/index.html	CC
12	Proposed suitable setback distances from water and property lines for manure, livestock and mortalities	X	The proposed location of the manure storage facility does not meet the setbacks required in Schedule A of M.R. 42/98. The proponent will need to apply for a variance for the location of the manure storage facility as per Livestock Manure and Mortalities Management Regulation MR 42/98. Please contact EABDirector@gov.mb.ca for more information.	CC
13	Indicated if proposed project site is within designated flood area or is otherwise at risk of flooding	X	The proposed project site is not within a designated flood area but is immediately adjacent to the Red River Valley Designated Flood Area. The proposed project site had minor impacts from the 1997 Red River Flood and may be at risk of flooding from an event larger than the 1997 Red River Flood.	MI
14	Proposed acceptable odour control measures	X	Should odour become a problem for neighbouring residents, there is a complaints process under The Farm Practices Protection Act. A person who is disturbed by any odour, noise, dust, smoke or other disturbance resulting from an agricultural operation may make a complaint, in writing, to the Manitoba Farm Industry Board. The Act is intended to provide for a quicker, less expensive and more effective way than lawsuits to resolve nuisance complaints about farm practices. It may create an understanding of the nature and circumstances of an agricultural operation, as well as bring about changes to the mutual benefit of all concerned, without the confrontation and the expense of the courts.	ARD ⁴
		X	Manure storage will be confined within an enclosed building.	MR
15	Proposed sufficient and suitable land for manure spreading with minimum	X	The required land base for 120,000 layers and 66,000 pullets at Moonfleet Layer Farms is 1677 acres. Moonfleet Layer Farms has met the land requirement by demonstrating that they have access to 1822 suitable acres. Additional detail can be found in Appendix A.	ARD ⁵

⁴ Agri-Resource Branch

⁵ Agri-Resource Branch

Provincial Technical Overview of TRC 12-086 – Moonfleet Layer Farms

Item No.	Provincial Requirements	Confirmed	Related Provincial Safeguards	Dept.
	setbacks from water sources	X	During manure spreading, setback distances to all groundwater and surface water features as prescribed under the Livestock Manure and Mortalities Management Regulation should be considered as a minimum distance.	CC
16	Indicated if spread fields are located in the Red River Valley Special Management Area or any other regularly inundated area	X	The proponent has indicated that some spread fields are located within the Red River Valley Special Management Area or any other regularly inundated area.	CC
17	Proposed spread fields that meet development plan and zoning by-law requirements	X	The proposed spread fields are designated Green/Agricultural Policy Area in the Macdonald Ritchot Development Plan By-law 2/10, and zoned either “AG” Agricultural General Zone or “AL” Agricultural Limited Zone in the RM of Ritchot Zoning By-law 9-2019. The proposed spread fields meet the requirements of the Development Plan and Zoning By-law.	MR
18	Proposed acceptable manure transportation methods	X	The transport of livestock manure is subject to Section 9 of the Livestock Manure and Mortalities Management Regulation. The proponent has indicated solid spreader will be used as means of manure transportation. This is considered acceptable under the Livestock Manure and Mortalities Management Regulation.	CC
			Please be advised that any structures placed within the controlled area of PTH 59, PR 210 or any Provincial Truck Highway (PTH) and Provincial Road (PR) (125 feet from the edge of the highway right-of-way) requires a permit from our office. The contact is Sheena del Rosario at (204) 583-2433 or Sheena.Delrosario@gov.mb.ca . The placements of temporary drag lines or any other temporary machinery/equipment for manure application within the right-of-way of PTH 59, PR 210 or any PTH or PR requires permission from our regional office in Steinbach. Please contact the Regional Planning Technologist, Archie Miller at (204) 346-6266 or Archie.Miller@gov.mb.ca . In addition, please notify the Regional Planning Technologist for the placement of temporary draglines or other temporary equipment for manure application within the controlled area of PTH 59, PR 210 or any PTH and PR (125 feet from the edge of the right-of-way).	MI
19	Identified suitable trucking routes and access points	X	The primary proposed truck haul route will utilize an existing municipal road connecting onto PTH 59. A significant increase in use is not anticipated.	MI
20	Identified proposed trucking routes – local roads	X	The proposed site is accessed by Leblanc Road, a municipal road. As per Section 116(2) of <i>The Planning Act</i> , municipalities as a condition of approval may require proponent to enter into a development agreement regarding the condition and upkeep of local roads used as truck haul routes.	MR

Provincial Technical Overview of TRC 12-086 – Moonfleet Layer Farms

Item No.	Provincial Requirements	Confirmed	Related Provincial Safeguards	Dept.
21	Known rare species will not be impacted on new sites/lands	X	The information provided in the assessment suggest that there will not be any conflicts with species protected under the Endangered Species and Ecosystems Act and/or Species at Risk Act, or designated as rare or uncommon by the Manitoba Conservation Data Centre (MBCDC). This review is based on existing data known to the MBCDC of the Wildlife and Fisheries Branch at the time of the review. These data are dependent on the research and observations of our scientists and reflects our current state of knowledge. An absence of data does not confirm the absence of any rare or endangered species. Many areas of the province have never been thoroughly surveyed, however, and the absence of data in any particular geographic area does not necessarily mean that species or ecological communities of concern are not present. The information should, therefore, not be regarded as a final statement on the occurrence of any species of concern. All future observations of rare or endangered species made by the proponent should be reported to the MBCDC for further review.	ARD ⁶

Provincial Departments: Agriculture and Resource Development (ARD), Conservation and Climate (CC), Infrastructure (MI), Municipal Relations (MR)

⁶ Wildlife and Fisheries Branch

D. PUBLIC COMMENTS AND DISPOSITIONS

Public Comment Summary	
Dave and Gloria Watkins	Commenters live down the road from facility. The main objections are due to: - Large daily consumption of water. Concerned about their water supply with increased droughts due to global warming - Pullet barn on east edge of property. Commenters have issues with air quality already and do not want issue to get any worse.

A full copy of the public comments as well as the proponent's response may be viewed on the public registry at: https://www.gov.mb.ca/mr/livestock/public_registries.html

See Appendix B for the proponent's response to the public comments.

E. CONCLUSIONS AND RECOMMENDATIONS

Conclusion

The information contained in the Site Assessment submitted by the proponent generally meets provincial requirements. In addition, based on available information it has been determined that the proposed operation will not create a risk to health, safety or the environment, or that any risk can be minimized through the use of appropriate practices, measures and safeguards.

Recommended Actions to Council

1. As per Section 114(1) of *The Planning Act*, at least 14 days before the date of the hearing, Council must:
 - a) send notice of the hearing to
 - i. the applicant,
 - ii. the Minister (c/o the Portage Community Planning Office),
 - iii. all adjacent planning districts and municipalities, and
 - iv. every owner of property located within three kilometres of the site of the proposed livestock operation, even if the property is located outside the boundaries of the planning district or municipality;and
 - b) post a copy of the notice of hearing on the affected property in accordance with Section 170 of *The Planning Act*.
2. Council should specify the type(s) of operation, legal land location, number of animals in each livestock category and total animal units in its Conditional Use Order.
3. As per Section 117 of *The Planning Act*, Council must send a copy of its Conditional Use Order to
 - a) the applicant,
 - b) the Minister (c/o the Portage Community Planning Office), and
 - c) every person who made representation at the hearing.
4. According to the Rural Municipality of Ritchot Zoning By-law 9-2019, the required minimum separation distance between a residence and an animal confinement facility/ non-earthen manure storage facility for a 1,214 Animal Unit operation is 984 ft. The proposal does not meet this requirement as the nearest residence is 270 feet. As a result, Council will require the proponent to apply for a variance.
5. As per Section 169(4)(b) of *The Planning Act*, a copy of the notice of hearing to vary the separation distance involving a livestock operation must be sent to every owner of property located within the separation distance that is proposed to be varied.
6. As per Section 174(1) of *The Planning Act*, Council can hold all required hearings together in a single combined hearing. It is recommended that during the course of this public hearing, Council first deal with the conditional use order followed by the variance order.
7. As per Section 174(2) of *The Planning Act* the notice of hearing for each matter to be considered at a combined hearing may be combined into a single notice of hearing.

8. Councils are requested to include in their resolution and/or Conditional Use Order, notification that the applicant may appeal council's decision to reject the application or appeal a condition imposed by council related to its approval as per Section 118.2 of *The Planning Act*.
 - As per Section 118.2(2)(b), an applicant may appeal the following decisions of a board or council to the Municipal Board:

for an application for approval of a conditional use made in respect of a large-scale livestock operation,

 - (i) a decision to reject the application,
 - (ii) a decision to impose conditions.
9. As per Section 118, no development or expansion of a livestock operation that is the subject of an application under this Division may take place until
 - (a) the application is approved and the applicant complies, or agrees to comply, with any condition imposed on the approval under this Division; and
 - (b) the applicant obtains every approval, including any permit or licence, required under an Act, regulation or by-law in respect of the proposed operation or expansion, and complies with, or agrees to comply with, any condition attached to the approval.
10. Council is welcome to contact Manitoba Conservation and Climate, Environmental Approvals Branch or Regional Environmental Compliance and Enforcement staff with respect to the Livestock Manure and Mortalities Management Regulation (M.R. 42/98) including compliance and enforcement issues.

Recommended Actions to Proponent

1. That a variance be applied for prior to the Conditional Use Hearing to vary the separation distance between a residence and an animal confinement facility/ non-earthen manure storage facility for a 1,214 Animal Unit operation from 984 ft. to 270 ft. This will provide council with the option of holding a combined Conditional Use and Variance Hearing.
2. That the proponent request the municipality hold a combined hearing.
3. That any additional measures identified through subsequent provincial licencing or permitting in order to minimize any identified risks to health, safety and the environment be undertaken.
4. That as per Section 118.2(2)(b), an applicant may appeal the following decisions of a board or council to the Municipal Board:
 - (i) a decision to reject the application,
 - (ii) a decision to impose any condition on the approval.

F. TECHNICAL REVIEW COMMITTEE MEMBERS

Name	Department	Title Branch	Contact
Erin McCleery	Municipal Relations	Manager, Winnipeg Office <i>Community Planning and Development Branch</i>	204-945-1143
Petra Loro	Agriculture and Resource Development	Agri-Ecosystems Specialist - Livestock Environment <i>Lands Branch</i>	204-918-0325
Crystal Buczko	Conservation and Climate	Environmental Compliance and Enforcement <i>Environmental Approvals Branch</i>	431-338-9833
Jeff DiNella	Infrastructure	Senior Development Review Technologist <i>Highway Planning and Design Branch</i>	204-945-2664

Appendix A

Lands Branch – Agriculture and Resource Development

Note: This land assessment excludes all pigs as the proposal indicates that the pig operation will be discontinued, the barns will be removed and the earthen liquid manure storage structure will be decommissioned.

Moonfleet Layer Farms has met the land requirements for 120,000 layers and 66,000 pullets (for a total of 1214 AU). In areas of lower livestock intensity such as the RM of Richot, it is currently the Province of Manitoba's policy to require sufficient suitable land for all of the nitrogen and half of the phosphorus generated by the livestock. This policy assumes that more land is available in the region to balance manure phosphorus with crop phosphorus removal, should it be necessary in the future.

Typical, modern feeding practices for poultry production were used to estimate nutrient excretion for Moonfleet Layer Farms. Realistic, long-term 10-year crop yields from the Manitoba Agricultural Services Corporation (MASC) for the RM of Richot were used to estimate crop nitrogen uptake and phosphorus removal rates for the crop rotation specified in the proposal.

Land suitability is determined using soil testing for phosphorus and soil survey to establish the agriculture capability. Soils must be below 60 ppm Olsen P to be considered suitable. 145 acres on SW 20-8-4E was excluded from the suitable land base because it is currently associated with 3 existing livestock operations. Detailed soil survey is available to determine the agriculture capability of the land. The agriculture capability of the land included in the proposal is primarily Class 2 and 3. The main limitation is wetness (W).

The required land base for Moonfleet Layer Farms is 1677 acres. Moonfleet Layer Farms has met the land requirement by demonstrating that they have access to 1822 suitable acres.

Water Branch – Agriculture and Resource Development

Proper nutrient management applications that avoid excess loss of nutrients to surface waters are needed on lands receiving manure in southern Manitoba because long-term trend analysis of total phosphorus and total nitrogen has shown significant increases in these nutrients in the Assiniboine and Red rivers (Jones and Armstrong 2001).

The proponent is planning to apply manure both in spring and fall and manure will be incorporated within 48 hours. Incorporation will reduce the risk to surface water when compared to surface broadcast alone. Spring applications are also beneficial because manure applied in spring is less susceptible to runoff losses during spring snowmelt and therefore reduces risk to surface waters compared to fall applications.

For most crops, manure contains an excess of phosphorus (P) compared to nitrogen (N) and as a result, application at N-based rates causes a buildup of soil P. Practices which reduce N losses from the manure improve the N:P ratio in the manure and help slow P buildup when manure is applied at N-based rates. The proponent is planning to apply manure by broadcast with incorporation which will reduce N losses compared to methods without incorporation.

The proponent has acknowledged the setback areas for all water features have been observed and excluded from land base calculations. Setbacks should be clearly communicated to and observed by those involved in manure application to minimize the risk of nutrients entering surface and groundwater.

Manitoba has included phosphorus as a nutrient by which fertilizer application through manure, synthetic fertilizer, and municipal waste sludge to agricultural lands may be limited. Many agricultural soils in Manitoba, especially areas with low livestock intensity, are considered phosphorus deficient and therefore, manure is an ideal fertilizer to support crop production. However, manure application can increase soil phosphorus over time and other spread fields may need to be added to prevent excessive soil phosphorus build up. As excess phosphorus levels build up in soils, greater losses occur to surface and ground water. It should be noted that Olsen soil-test phosphorus levels of 60 ppm are well above phosphorus needs for most crops (over 20 ppm is usually considered agronomically very high). In areas of lower livestock intensity, it is currently the Province of Manitoba's policy to require sufficient suitable land for all of the nitrogen and half of the phosphorus generated by the livestock. This policy assumes that more land is available in the region to balance manure phosphorus with crop phosphorus removal, should it be necessary in the future for long-term sustainability. To remain environmentally sustainable over a long-term planning horizon of 25 years or more the proponent acknowledges that 3,355 acres may be required for the operation. The proponent has identified 1,967 acres for manure application at this time. Application to meet crop N requirements is estimated to use 1,008 acres. Application at 2 times the crop removal of P is estimated to use 1,677 acres (3,355 acres is estimated to achieve P balance [phosphorus removal equal to phosphorus application] with current crop choices and yield potential).

As phosphorus levels build up in soils, the concentration of phosphorus in runoff to surface waters increases. It is important to rotate manure application across all spread fields and whenever possible focus manure applications on fields with low Olsen-P soil test levels so as to prevent excessive P buildup when applying manure at rates above P balance (P removal by harvested crops).

During manure spreading, setback distances to all groundwater features as prescribed under the Livestock Manure and Mortalities Management Regulation should be considered as a minimum distance.

Environmental Compliance & Enforcement Branch - Conservation and Climate

DATE: December 29, 2021

TO: Barsha Sagan
Environmental Approvals Branch
Conservation and Climate
1007 Century Street
Winnipeg MB R3H 0W4

FROM: Marguerite Reimer
Environmental Compliance and
Enforcement
Conservation and Climate
1007 Century Street
Winnipeg MB R3H 0W4
P: (204) 945-7016

SUBJECT: Technical Review Comments – TRC 12-086 – Moonfleet Layer Farms
SE 20-08-04 EPM, RM of Ritchot

Environmental Compliance and Enforcement has reviewed the above noted Site Assessment and supporting documents and can provide the following:

- The proposed placement of the manure storage facility does not meet the setbacks required in Schedule A of M.R. 42/98. The proponent will need to apply for a variance for the location of the manure storage facility.
- Composting of mortalities is to occur as per Section 15.1(1) of M.R. 42/98 and the following documents:
https://www.gov.mb.ca/sd/envprograms/livestock/pdf/app_guidelines.pdf
And
https://www.gov.mb.ca/sd/pubs/environmental-approvals/livestock/authorization_app_form.pdf
- Decommissioning of the existing earthen manure storage facility under permit # LM-0006 is to occur as per Section 6.2(1) of M.R. 42/98 and the following documents:
https://www.gov.mb.ca/sd/ece/programs/pdf/pr_2_livestock_reg_book.pdf
And
https://www.gov.mb.ca/sd/envprograms/livestock/pdf/trd_decommissions_ems_04-30-2010.pdf

Appendix B – Proponent Response to Public Comments



Re: TRC 12-086 (Moonfleet Layer Farms) - Public Comments Received

In response to the following comments provided by Dave and Gloria Watkins we have prepared the following response:

Comment:

Sent: December 13, 2021 3:00 PM
To: +WPG139 - TRC (MR) <trc@gov.mb.ca>
Subject: TRC 12-086

Sharing our concern regarding the proposed expansion of a Poultry operation MoonFleet Layer Farms. We live just down the road from this facility and this expansion is objectionable to us due to:

** their Large Daily Consumption of Water as we also have a well in very close proximity, and with the Global Warming causing as Second Drought in 2 years, we could suffer the loss of water in our well.

** this Barn to house the Pullets is on the East Edge of the property, being closer to us than the other barns & manure storage. This is worry some as the Air Quality in our area is already Very Bothersome at times, would Not wish this issue to get any worse. Would Really appreciate it if the Air Quality would Improve instead!!

Must mention we are not City Folks that just moved to the country and are complaining about the Air Quality, we have resided at our current location for 25 years. We do appreciate our Country Life Style and would also appreciate Fresh Country Air and Good Drinking Water.
Dave & Gloria Watkins

Response:

With the proposed changes to the livestock species and numbers on site, water consumption will be decreasing from the current estimated usage of 17,373 imperial gallons per day to an estimated 10,164 imperial gallons per day. This represents approximately a 40% reduction in water usage and is therefore anticipated to have a lesser impact on your water supply than what has existed in the past.

The proposed pullet barn is utilizing one of the pre-existing layer barns on site. To facilitate the bird numbers a slight addition will be added and a manure storage facility will be constructed toward the west such that any of the pre-existing separation distances to your residence remain unchanged. The utilization of a dry manure handling system enclosed within a building will significantly reduce the odour potential versus the previously used liquid manure handling system. This in combination with decommissioning of the existing earthen manure storage cells on site will significantly reduce the odours that you have experienced in the past by eliminating the large liquid manure surface.

In closing, the proposed changes for the site are beneficial to reducing and alleviating the concerns that you have expressed. The reduction in animal units, the conversion from hogs to poultry and the elimination of the earthen manure storages over time, will ultimately reduce the odours and potential for environmental impact produced by the operation and immediately reduce the volume of water extracted from the aquifer. These measures are all expect to reduce the impacts on yourselves that have existed in the past with the original operation.

Respectfully Submitted,

South-Man Engineering

Per, 

Peter Grieger, P. Eng