

Technical Document RA16006XB



Application for Amendment

Application under the *Agricultural Operation Practices Act* to amend a permit for a confined feeding operation, manure collection area and/or manure storage facility(ies). ("Permit" means an NRCB-issued or grandfathered approval, registration, or authorization, including a grandfathered municipal development permit.)

NRCB USE ONLY		NRCB Application number	Date Stamp
<input type="checkbox"/> Approval	<input checked="" type="checkbox"/> Registration	<input type="checkbox"/> Authorization	NRCB APPLICATION 02 JUN 22 RECEIVED
RA16006XB			

CONTACT INFORMATION

Applicant Information		
Name:	Corporate Name (if applicable)	
Jos and Dorothy Peters		
Address: (Street/P.O. Box) RR 2		
City/Town:	Province:	Postal Code:
Millet	AB	T0C 1Z0
Agent consent (if applicable)		
I, _____, hereby give consent for _____ (name of applicant) (name of agent and company)		
to act on my behalf or as my agent for this application.		
Signed this _____ day of _____, 20_____.		Signature of Applicant

LOCATION OF DEVELOPMENT

AO Comment

Which permit do you wish to amend? (List permit number and issuing agency.)	RA16006XA 4-26-47-32-SW
Legal Land Description(s)	AO Comment: SW 32-47-26 W4M (Qtr-Sec-Twp-Rg-W Mer)

APPLICATION DISCLOSURE

This information is collected under the authority of the *Agricultural Operation Practices Act (AOPA)*, and is subject to the provisions of the *Freedom of Information and Protection of Privacy Act*. This information is public unless the NRCB grants a written request that certain sections remain private.

Any construction prior to obtaining an NRCB permit is an offence and is subject to enforcement action, including prosecution.

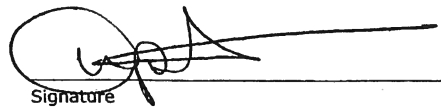
I, the applicant, or applicant's agent, have read and understand the statements herein and acknowledge that the information provided in this application is true to the best of my knowledge.

Date of signing

Signature

Corporate name (if applicable)

Print name


Dorothy Peters

Application for Amendment – contd.



AMENDMENT INFORMATION REQUIREMENTS

Instructions:

For each part of your permit that you would like amended, please detail what change you would like made and why, and how your proposed change will meet the AOPA requirements. You may attach additional pages to this form to provide this information.

Please note that an approval officer may require a page (or pages) of the Part 2 application forms to be completed as part of this application for amendment, depending on what changes are proposed.

please see attached letter what is added to the application to amend the Condition# 4.

AO Comments:

Jos and Dorthy Peters are applying to amend Registration RA16006XB by deleting condition # 4 in order to allow them to apply manure from their goat dairy CFO onto their land.

The Peters' have indicated that they initially committed to not applying manure on their land to please neighbors at the time of applying for Registration RA16006.

The Peters' have indicated that their goat manure is solid and very dry, and it can be used as organic fertilizer on their Saskatoon berries and their organic Rhodiola Rosea herb.

They have also indicated that in addition to the home quarter, where they are proposing to apply the manure, they also have another quarter section of land in the area, where alternatively they can apply manure (and as demonstrated in the initial application RA16006, they meet the land base requirement in section 24(3)(d) of the regulation).

Application to amend the condition #4 of registration RA16006XA

The permit holder shall not spread manure on the land location located SW32-47-26-W4M.

Our farm has a Dairy Goat operation strict biosecurity to build a high health status.

Organic Rhodiola Rosea

Saskatoon berries under GACP(Good agricultural and collecting practices)

The Dairy goats are held on straw bedding. This produces very dry manure.

We decomposing the manure what gives a very nice black organic matter what we would like to use in our organic area and the saskatoons.

Pro cert the organic certifier accepts this aged manure to be spread into the field.

We are growing the Rhodiola Rosea and Saskatoon Berries as a big part of our living and we have to give some organic matter back to the soil to keep producing a healthy crop.

The decomposed manure is better for the environment than the chemical fertilizers, also the financial input of buying fertilizer is out of control while we have extremely good quality dry aged manure laying there what would have way better return for us and the environment.

We are asking to review this condition

The amendment will have a big financial relief for the farm in these hard times to survive now all costs are just sky rocking.

It also does not make sense that a chemical fertilizer could be uses but not manure

We would like to keep the soil and environment healthy

Thank you Jos and Dorthy Peters



In consideration of Decision Summary RA16006X, Registration RA16006XA is issued to:

Name: Jos and Dorothy Peters (the "permit holders")
Address: RR# 2, Millet, AB. T0C 1Z0
Contact person: Dorothy Peters

Permitted Construction (based on the submitted site plan):

- Goat barn (64.1 m x 24.4 m)

The permit holders shall comply with the requirements of the *Agricultural Operation Practices Act* (AOPA) and the regulations passed pursuant to that act.

The permit holders are to adhere to the descriptions contained in the filed application, together with the site plan, building plans and other attached documents, unless otherwise noted in the following conditions.

The permit holders shall contact the NRCB at least 10 working days in advance of the desired inspection date, to schedule the inspection referenced in condition #2.

Construction Conditions

1. The permit holders shall provide the NRCB with a written completion report for the manure collection and storage areas of the goat barn. The report shall be prepared by a qualified third party, and shall verify:
 - the dimensions of the barn;
 - the type, and 28 day compressive strength, of the concrete used in the manure collection and storage areas of the barn;
 - the concrete thickness and concrete reinforcement size and spacing in the manure collection and storage portions of the barn;
 - that the finished landscape around the goat barn slopes to the south and west;
 - the distance from the barn to the nearest property boundaries; and
 - that the barn was built according to the submitted construction plans.
2. The permit holders shall not allow livestock or manure in the goat barn until the barn has been inspected by NRCB personnel and determined by them, in writing, to have been constructed in accordance with the terms and conditions of this permit.
3. The permit holders shall complete construction of the manure collection and storage portions of goat barn prior to November 30, 2018. Upon request, this deadline may be extended by the NRCB in writing.

Operating Conditions

4. The permit holders shall not spread manure on land located on SW 32-47-26 W4M.



Miscellaneous Conditions

5. Before populating the confined feeding operation, the permit holders shall properly reclaim the un-registered water well on SW 32-47-26 W4M. Written confirmation by a certified journeyman driller shall be provided to the NRCB verifying that the water well was properly reclaimed.

This Registration (RA16006XA) is effective immediately. The Registration conditions will remain in effect unless amended in writing by the NRCB. Registration 16006X is hereby cancelled.

August 11, 2016



Francisco Echegaray, P.Ag.
Approval Officer

Hi,

We want to try to put it in this paper what our plans are for the farm

First we never burned manure

As everyone knows goats are very picky eaters and we had very bad hay so a lot of hay what they were not eating.

We piled it up and tried to give it away but nobody wanted

We burned one pile a few years back.

Last year with the drought some horse farmers and neighbors picked it up to feed their animals for free.

The manure was hauled out till the people could not afford it anymore chemical fertilizer was cheaper than free manure

We found now someone else who started in the spring with hauling.

Mother Nature decided the dump in this area a lot of rain what was welcome but made it impossible to go in the fields.

The manure hauling will continue in a few weeks again.

As everyone knows we have Saskatoon Berries (GACP) and Rhodiola rosea (organic) crop growing in the field.

We found a solution for the hay what the goats not eat.

We want to use the alfalfa as weed control in the path ways of the rhodiola this will composed when it lays there for 4 years before it gets harvested.

The plan is to do first a test area if this works

We would like to bring organic matter back to the soil to where we harvested the Rhodiola and at the foot of the Saskatoon berries

We can make a discussion what is more harmful for the environment chemical fertilizer or aged manure/ composed.

So far to the people we talked they all recommend to use the manure (not fresh manure) in the field as describe above.

It does not smell it has microbes while chemical fertilizers have more runoff and are more harmful for the environment.

We will let the manure test to see what is in there

Every farmer with some farm knowledge knows over fertilizing with manure or fertilizers will harm the soil and crop and it will not benefit the farmer or environment.

We cannot control the weather or what happens tomorrow we can only try and do our best to give back to the soil what we took out.

I will see if I can find more info about the difference of manure and chemical fertilizers and there impact on the environment.

We have in the big barn at the moment roughly 420 goats and it is full. The per square foot per animal does absolute not work what was recommended by other, if you want a healthy live stock. We are focused on health and good living conditions for the animals. This is just information we want to share that we are not just stuffing the barn full and throwing all the manure on the field. This is not benefiting us and it would have a very poor outcome. Poor farm management.

Hope this helps and answers some of the questions.

Family Peters

From: [Dorothy Peters](#)
To: [Francisco Echegaray](#)
Subject: Fwd: Justification to amend condition
Date: Monday, September 19, 2022 2:12:41 PM

Caution! This message was sent from outside your organization.

[Allow sender](#) | [Block sender](#)

----- Forwarded message -----

From: **Francisco Echegaray** <Francisco.Echegaray@nrcb.ca>
Date: Mon, Sep 19, 2022 at 11:21 AM
Subject: Justification to amend condition
To: Dorothy Peters <[REDACTED]>

Good morning Dorothy:

Can you please answer and/or address the following questions?

- What is the reason you initially committed to not applying manure in your land at the time of the original application in 2016?

To please the neighbours, we where so focussed on the permit that we did not thought about to use this on our own home quarter.

- Do you currently own other lands in the area, where potentially you can apply manure? What is the legal land location of these other lands?

We have 2 quarters

The home quarter 4-26-47-32-sw where we have the dairy goats, Saskatoon berries, and the organic herb Rhodiola Rosea, and some pasturer.

The Saskatoon berries and the field where we have to organic Rhodiola Rosea would both be benefitting from the organic matter what we should add back to the soil to keep the organic matter healthy in balance.

Second quarter 4-26-47-20-Se is pasuter and grain land.

- If possible, send a picture of the equipment that can apply the manure to the saskatoon berries.

The manure can be added to the foot by the berrie bushes in an healthy amount with different equipments

Manure spreader with not the spreader but a side spout.

a bucket with an auger on the side like the one for saw dust (with adjustments)

the picture is of a haskapfarmer what he is using to put manure ate the foor of the berries.

For the Rhodiola after Rhodiola is harvested with manure spreader and later with a spout

Pic will be send in other email.

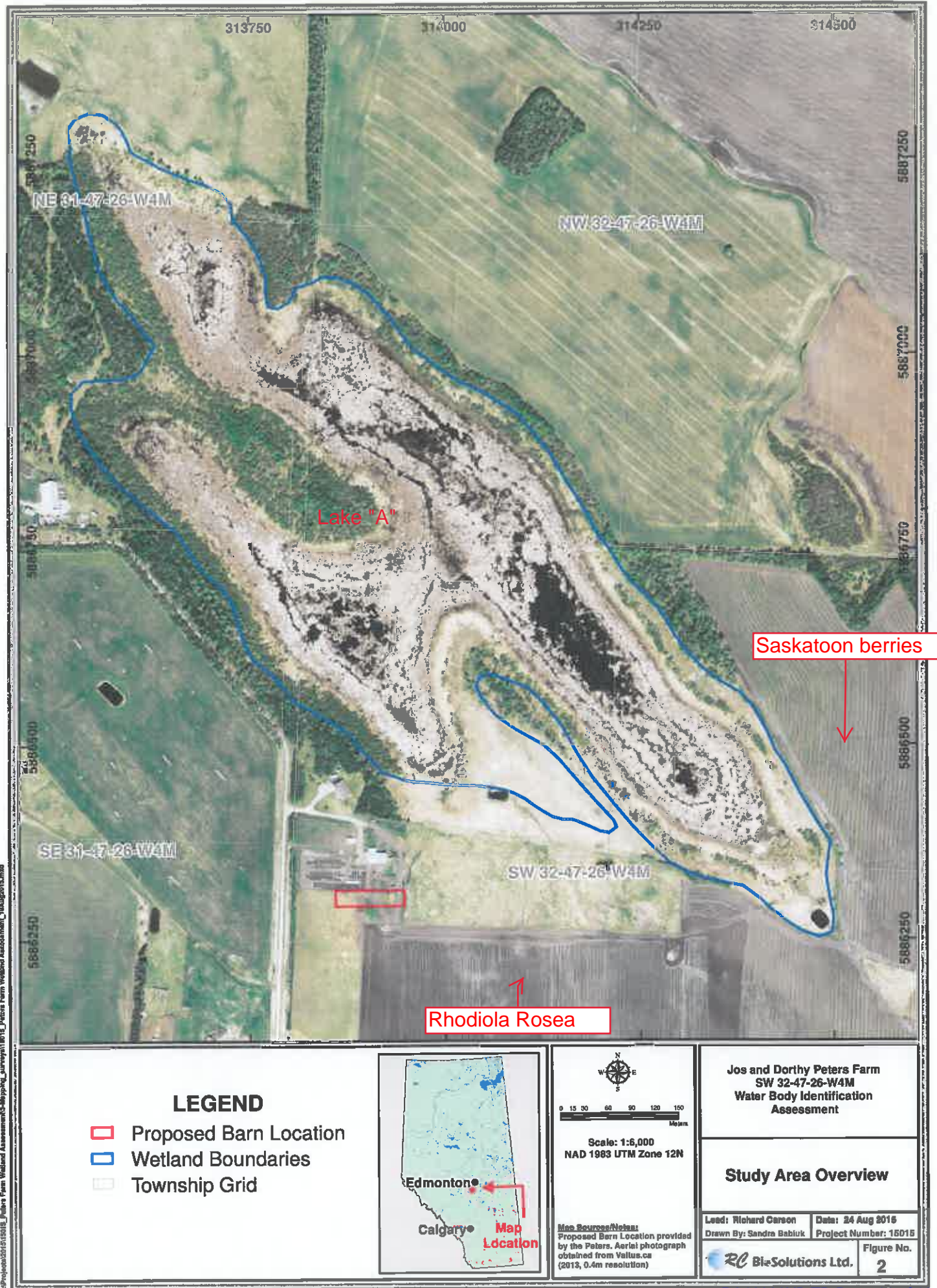




KEMVER

Jiffy
EQUIPMENT PRODUCTS

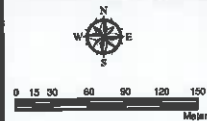
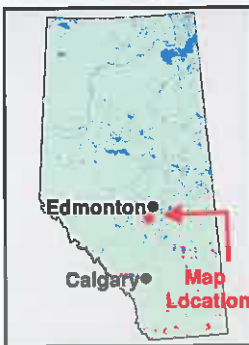
100 WESTMAN



Z:\projects\2015\15018_Peters Farm Wetland Assessment\3-Mapping\array\15018_Peters Farm Wetland Assessment_18Aug2015.mxd

LEGEND

- Proposed Barn Location
- Wetland Boundaries
- Township Grid



Scale: 1:6,000
NAD 1983 UTM Zone 12N

Map Source/Notes:
Proposed Barn Location provided by the Peters. Aerial photograph obtained from Vallus.ca (2013, 0.4m resolution)

**Jos and Dorothy Peters Farm
SW 32-47-26-W4M
Water Body Identification
Assessment**

Study Area Overview

Lead: Richard Carson	Date: 24 Aug 2015
Drawn By: Sandra Babluk	Project Number: 15015

RC Biosolutions Ltd.	Figure No. 2
----------------------	------------------------

August 09, 2022

Natural Resources Conservation Board
#303-4920-51 Street
Red Deer, Alberta
T4N 6K8

Attention: Francisco Echegaray

Regarding Response to Statements of Concern for RA 16006XB– Jos & Dorthy Peters – SW 32-47-26-W4, County of Wetaskiwin

Regarding the Statements of Concern (SOC) for a Confined Feeding Operation (CFO) application to amend conditions for Jos & Dorthy Peters, located at SW 32-47-26-W4, in the County of Wetaskiwin. The NRCB forwarded 1 SOC for review and consideration, based on the concerns for health, by these residents. Please see AHS comments below.

Scope of AHS-EPH's role:

The scope of our review is limited to that of health specific related concerns only. The health-related elements of the SOC submitted for consideration was regarding concerns associated with impacts on water quality over extending the spreading of manure on SW 32-47-26 W4M that the current herd generates and the associated impacts on water quality.

Manure Handling Risks:

NRCB regulates manure handling practices, to ensure that proper agricultural and manure handling practices are being followed, to minimize odour generation. As the Peter's farm is a goat dairy operation there would only be solid manure. It is important to note that liquid manure which is stored under anaerobic conditions generate more volatile organic compounds, H₂S and Methane than solid manure. The health concerns associated with the compounds are primarily of concern for occupational exposures. Solid manure also has less potential for offsite migration with surface application during the spreading process. A recent study found that for liquid manure (such as with dairy or swine), the risk of E.coli infection in farm workers was calculated to be 1 in a million at a concentration of 100 CFU/g. The study further found that the concentrations of E.coli dropped below 26 CFU/g at 100 m and 2 CFU/g at 1000 m from the point of application. This substantial drop in concentration is associated with the inactivation of the bacteria due to desiccation and sunlight, meaning residents located 100 m or more from the spreading activities are at very low risk for infection.

[Red Deer](#) • [Johnstone Crossing Community Health Centre](#) • [Environmental Public Health](#)

[300 Jordan Parkway, Red Deer, Alberta, Canada T4P 0G8](#)

www.ahs.ca/eph

Microbial Contamination of Water:

A review of the soil lithology of water wells on the application site found there is a low risk for microbial contamination of the groundwater based on retention time. Retention time is how long it would take water from the ground's surface to reach the drinking water aquifer. Based on our risk assessment using the information provided soil water retention exceeds the minimum requirement of at least 90-day travel retention time. Human pathogens associated with animal fecal matter become inactive after 90 days, and for the most resilient pathogen associated with human sewage, Adenovirus, is inactive after 200 days.

Chemical Contamination of Water:

The chemical parameter of concern most often associated with animal manure are Nitrates and Nitrites. Nitrite and Nitrate can cause methemoglobinemia when levels exceed the [Guidelines for Canadian Drinking Water Quality](#) maximum acceptable concentration of 1.0 mg/L and 10.0 mg/L respectively. AHS is not aware of any instances of chemical contamination of the drinking water wells associated with animal manure or agricultural operations of this site.

The Natural Resources Conservation Board (NRCB) is responsible for the final decision of any applications. Complaints or concerns, including those involving odours, manure handling and water quality, should be directed to the NRCB.

Should you have any additional questions regarding this matter, please contact the undersigned.

Thank you,
Sonam Khaira, CPHI(c)
Executive Officer/Public Health Inspector
403-586-0228
sonam.khaira@ahs.ca