

Zacharias-Homer, Christa ENV:EX

From: Doug Macfarlane <dougmacf@shaw.ca>
Sent: Friday, May 8, 2015 8:34 AM
To: Little, Stephanie ENV:EX
Cc: Dale & Sophie Jansen; Doug Macfarlane
Subject: Revised Spring 2015 Manure application Plan
Attachments: WS 9 Solid 2015 Forage NMP Calculator (imperial)HSJansen Dairy imp.pdf; WS 9 Liquid 2015 Forage NMP Calculator (imperial)HSJansen Dairy imp.pdf; WS 8 2015 Forage NMP Calculator (imperial)HSJansen Dairy imp.pdf; WS 7 2015 Forage NMP Calculator (imperial)HSJansen Dairy imp.pdf; WS 6 2015 Forage NMP Calculator (imperial)HSJansen Dairy imp.pdf; WS 5 2015 Forage NMP Calculator (imperial)HSJansen Dairy imp.pdf; WS 4 2015 Forage NMP Calculator (imperial)HSJansen Dairy imp.pdf; WS 3 2015 Forage NMP Calculator (imperial)HSJansen Dairy imp.pdf; WS 2 2015 Forage NMP Calculator (imperial)HSJansen Dairy imp.pdf; WS 1 2015 Forage NMP Calculator (imperial)HSJansen Dairy imp.pdf; Spring 2015 manure samples Manu-H_S_JANSEN_SONS-C15097-80002-1.pdf

Enclosed are the NMP worksheets for H.S. Jansen 2015 manure application plan and requirements and the Spring manure test results. Nitrogen content in the liquid manure/effluent are higher this spring and so the application rates are adjusted down to compensate for that. They have added extra land to the farm and have upgraded the manure pumping system to allow for application on more acres still.

Working with the VanDursen farm has worked very well this spring and they were able to haul a large portion of their 2015 requirements earlier this spring.

WS 1 shows the changes to the acreages and crops being produced this year

WS 2 shows soil phosphorous status

WS 3 shows soil potassium status

WS 4 shows manure nutrient content along with the last attachment – Spring 2015 manure samples

WS 5 give the Agronomic Balance for Nitrogen, phosphorous and potassium

WS6 gives crop removal balance for phosphorous and potassium

WS 7 give the expected manure production and the total usage amounts. These are balanced to within 5%

WS 8 shows the total amount applied per acre of liquids and solids for the total years requirements.

WS 9 Liquid shows the planned timing of the applications by dates and percentage amounts of the total required for the year. See note below

WS 9 Solids as above but for the solids

Note:

Fields 103 Hullcar Hall and 103B Doug's are the fields that were planted to alfalfa in the 2014 season. To complete the manure management plan and ensure that the lagoons are low enough going into winter we are asking for 3 applications of 8,000 gallons of manure/effluent after each cut for the 2015 growing season. This amount will leave the field with an additional requirement to 65 pounds of nitrogen per acre that will be pulled from the field if it is available or fixed by the alfalfa plants if there is no extra Nitrogen available in the field.

These fields are very important to achieving a balanced nutrient plan that works with the manure production timing of the farm. Applying the manure on the alfalfa fields after 3rd cut a sound practice and allows for the lagoons to hold the complete winters manure production. Being able to reduce the total manure volume and nitrogen being applied to these fields and running a substantial nitrogen deficit will reduce the chance of any nitrogen escapes to the subsurface water.

Please let me know if you require any further information

Doug Macfarlane, CCA
Emerald Bay Ag Services
250-550-0545