1a - Pigs Operation Name:		7			
Operation Type	Storage Type	Volatilization	Animal Numbers	N Excreted Per Herd Adjusted for Storage N Loss	P2O5 Excreted Per Herd Per Year
			(Places)	(lb/yr/herd)	(lb/yr/herd)
Gilts (Purchased)	Liquid Uncovered Earthen	30%	250	7955	4396
Boars	Liquid Uncovered Earthen	30%		0	0
Weanlings/Nursery	Liquid Uncovered Earthen	30%		0	0
Growers/Finishers	Liquid Uncovered Earthen	30%		0	0
Sows, farrow to 6.2 kg	Liquid Uncovered Earthen	30%	4500	168959	122025
Sows, farrow to 28 kg	Liquid Uncovered Earthen	30%		0	0
Sows, farrow to finish	Liquid Uncovered Earthen	30%		0	0

Last Revised February 12, 2020

September 2023

•	Rem	oval	Uptake	Enter the ope				-	noval	Uptake
Crop	P2O5	Ν	N	Units	Yield	Units	Acreage	P2O5	N	N
								(lb)	(lb)	(lb)
Alfalfa	13.8	58	58	lb/ton		ton/ac		-	-	-
Barley Grain	0.42	0.97	1.39	lb/bu		bu/ac		-	-	-
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac		-	-	-
Canola	1.04	1.93	3.19	lb/bu	44.4	bu/ac	825	38095	70696	116850
Corn Grain	0.44	0.97	1.53	lb/bu		bu/ac		-	-	-
Corn Silage	12.7	31.2	31.2	lb/ton		tons/ac		-	-	-
Dry Edible Beans	1.39	4.17		lb/cwt		cwt/ac		-	-	-
Fababeans	1.79	5.02	8.4	lb/cwt		cwt/ac		-	-	-
Flax	0.65	2.13	2.88	lb/bu		bu/ac		-	-	-
Grass Hay	10	34.2	34.2	lb/ton		tons/ac		-	-	-
Lentils	1.03	3.39	5.08	lb/cwt		cwt/ac		-	-	-
Oats	0.26	0.62	1.07	lb/bu	124.4	bu/ac	583	18857	44966	77602
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac		-	-	-
Peas	0.69	2.34	3.06	lb/bu		bu/ac		-	-	-
Potatoes	0.09	0.32	0.57	lb/cwt		cwt/ac		-	-	-
Rye	0.45	1.06	1.67	lb/bu		bu/ac		-	-	-
Soybeans	0.84	3.87	5.2	lb/bu	34.3	bu/ac	583	16797	77388	103984
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu	63.1	bu/ac	825	30714	78086	109841
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-
						<b>Total Acres</b>	2816	104463	271136	408277
			Estimate	ed Average R	emoval/Up	otake (Ib/ac)		37.1	96.3	145.0
Acres in Hanover and La Broquerie										
		Proportion in Hanover or La Broquerie 0%								
		Additional Acres								
Crop Planned o					ned on Add	itional Acres				
					Т	otal Acreage	2816			

Last revised December 18, 2017

3 - Farm Excretion Operation Name:	Enter the operation name on the livestock tab(s)		
Species	Animal Category/Operation type	N	P2O5
opecies	Annual category, operation type	(lb/year)	(lb/year)
	Boars	0	0
Pigs	Weanlings/Nursery	0	0
	Growers/Finishers	0	0
	Sows, farrow to 5 kg	168959	122025
	Sows, farrow to 23 kg	0	0
	Sows, farrow to finish	0	0
	Mature Cows and Bred Heifers, plus associated livestock	0	0
	Feedlot Cattle - long keep	0	0
Beef	Feedlot Cattle - short keep	0	0
	Backgrounders - pasture	0	0
	Backgrounders - confined	0	0
	Lactating cow	0	0
	Lactating First Calf Heifer	0	0
	Dry cow	0	0
Dairy	Calf, 0-3 months	0	0
	Calf, 4-13 months	0	0
	Replacements, >13 months	0	0
	Mature Cows, plus assoc livestock	0	0
	Ewes	0	0
	Replacement Ewes	0	0
	Rams	0	0
Sheep	Lambs	0	0
	Ewes, plus assoc livestock	0	0
	Feeder	0	0
	Light Broilers	0	0
	Broilers	0	0
Chickens	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
	White Layer Pullets	0	0
	White Layer Hens	0	0
	White Breeder Pullets	0	0
_	White Breeder Hens	0	0
Layers	Brown Layer Pullets	0	0
	Brown Layer Hens	0	0
	Brown Breeder Pullets	0	0
	Brown Breeder Hens	0	0
	Broiler Turkey (0-9 wks)	0	0
Turkeys	Hen Turkey (0-11 wks)	0	0
	Heavy Hens (0-14 wks)	0	0
	Toms (0-14 wks)	0	0
	Breeding Hen Growers (0-30 wks)	0	0
	Breeding Hens (31-End of Lay)	0	0
	Breeding Tom Grower (0-17 wks)	0	0
	Breeding Tom Grower (17-30 wks)	0	0
	Breeding Tom (31-End of Lay)	0	0
	Total	176915	126421
Nictor	Be sure all livestock species on your farm are represented in this	table, not j	ust the
Note:	livestock in the proposed expansion.		

4 - Land Base Summary				
Operation Name:	Enter the operation name on the livestock tab(s)			
Nutrients Excreted	lbs			
Nitrogen	176915			
Phosphorus (P2O5)	126421			
Crop Nutrient Use	lb/ac			
Average Crop N Uptake	145.0			
Average Crop Phosphorus (P2O5) Removal	37.1			
Operation-specific Phosphorus (P2O5) Allowance	74.2			
Land Available	2816			
Land Base Required	acres			
Acres for Nitrogen	1220			
Acres for Phosphorus (P2O5)	1704			
Phosphorus Balance	acres			
Acres for Phosphorus Balance (1X)	3408			
Note: For lands located in Hanover and/or La Broquerie, the acres required for phosphorus are based on				
phosphorus balance (1X). For other lands, the acres required for phosphorus are based on twice crop				

phosphorus removal (2X). Land requirements for operations with lands inside and outside Hanover and/or La Broquerie are based on a weighted average.

Last revised November 26, 2019

## **CROP ROTATION TABLE**



А	В	C	D	E
Expected Crops in the Rotation	Acreage	Historical Yield	Units	Source of Yield Information
Total Net Acreage for Manure Application				

A. List all of the crop(s) to be grown in the rotation on the acreage that will receive manure.

B. Indicate the average acreage for each crop over the rotation. For example, if there are 720 suitable acres available for manure and approximately 40 these acres will be used to grow canola, enter 288. The total of column B should add up to Total Net Acreage for Manure Application provided in the Manure Application Field Characteristic Table.

C. Enter the historical yield average for each crop. Long-term yield averages can be determined using MASC data (<u>http://www.masc.mb.ca/masc.nsf/index.html?OpenPage</u>) or on-farm yield records. If on-farm yield records are used, please provide copies.

D. Enter the units for the yields provided (e.g. bu/acre, tons/acre).E. Enter the source of the historical yield average provided.