



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706 • (208) 373-0502
www.deq.idaho.gov

Governor Brad Little
Director John H. Tippetts

November 22, 2019

Crossbred Dairy
303 W 300 S
Jerome, ID 83338

RE: Permit by Rule Registration Notification-PR-2019.0054

Dear Mr. Onaindia:

The Department of Environmental Quality (DEQ) received a Permit by Rule Registration form for a dairy farm from Crossbred Dairy on November 18, 2019. The registration contains the following information:

1. Rick Onaindia
Crossbred Dairy
303 W 300 S, Jerome, ID 83338
208-536-6148
2. NUMBER OF COWS: 3500 OR ANIMAL UNITS: 4500
3. PERCENTAGE OF FARM THAT IS DRY LOT: 40%
FREESTALL SCRAPE: 60 FREESTALL FLUSH: N/A
4. TOTAL BEST MANAGEMENT PRACTICES (BMPs) POINTS REGISTERED: 47.5
(Minimum 27 points required)

Your registration for Permit by Rule is in our files. We recommend that you maintain a copy of this letter and a copy of the enclosed registration form for your records. Additional information and guidance regarding your permit is available at:

<http://www.deq.idaho.gov>

Please be advised that you must comply with Section 764 of the Rules for the Control of Ammonia from Dairy Farms by employing the requisite point total of BMPs. These Rules are located within the Rules for the Control of Air Pollution in Idaho. You can download a copy of the rules by visiting the rules page on DEQ's web site at:

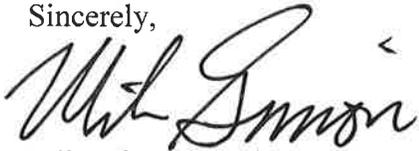
<http://www.deq.idaho.gov>

Crossbred Dairy, Jerome
November 22, 2019
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Please be advised that the state of Idaho intends to conduct a qualifying inspection of your dairy farm within 30 days to ensure the requisite point total of BMPs are employed.

If you have any questions regarding this letter or the Rules for the Control of Ammonia from Dairy Farms, please do not hesitate to contact Mike Simon, Stationary Source Program Manager, Department of Environmental Quality, at (208) 373-0502. Questions regarding inspections should be directed to Mitchell Vermeer, Dairy Bureau Chief, Idaho State Department of Agriculture, at (208) 332-8551.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Simon". The signature is written in a cursive, flowing style.

Mike Simon, Stationary Source Manager
Air Quality Division

MS/jp

Enclosure

cc: Mitchell Vermeer, ISDA, mitchell.vermeer@isda.idaho.gov

IDAHO DEPARTMENT OF AGRICULTURE
BUREAU OF DAIRYING
PO BOX 790
BOISE ID 83701-0790 (208) 332-8550

IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY
1410 NORTH HILTON
BOISE ID 83706 (208) 373-0502

DAIRY AMMONIA
REGISTRATION FORM
IDAPA 58.01.01.763

DEQ Form #AQ-F-P019 (5-30-06)

RECEIVED
NOV 18 2019
DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE OF IDAHO

DAIRY NAME: Crossbred Dairy DATE: 11-11-19
OWNER NAME: Crossbred Dairy
STREET ADDRESS: 303 W 300 S CITY: Jerome
MAILING ADDRESS (if different from Street Address): CITY:
TELEPHONE: 208-536-6148
NUMBER OF COWS 3500 OR ANIMAL UNITS: 4,500
WHAT PERCENTAGE OF YOUR FARMS IS: DRYLOT 40 FREESTALL/SCRAPE 60 FREESTALL/FLUSH

System/Component	BMP Employed	Ammonia Control Effectiveness ¹			Compliance Method ³	BMP Points
		Open Lot	Freestall Scrape	Freestall Flush		
1. Waste Storage and Treatment						
a Synthetic Lagoon Cover	<input type="checkbox"/>	15	20	20	1	
b Geotextile Covers	<input type="checkbox"/>	10	13	13	1	
c Solids Separation	<input checked="" type="checkbox"/>	3	3	3	3,4	3.0
d Composting	<input checked="" type="checkbox"/>	4	4	4	1	1.0
e Separate Slurry and Liquid Manure Basins	<input checked="" type="checkbox"/>	6	10	-	1	8.4
f In-House Separation	<input checked="" type="checkbox"/>	0	12	0	1	7.2
g Direct Utilization of Collected Slurry	<input type="checkbox"/>	6	10	-	1,3,4	
h Direct Utilization of Parlor Wastewater	<input type="checkbox"/>	10	10	10	1	
i Direct Utilization of Flush Water	<input type="checkbox"/>	8	0	13	3,4	
j Aerated Lagoon	<input type="checkbox"/>	10	12	15	2	
k Sequencing-Batch Reactor	<input type="checkbox"/>	15	20	20	2	
l Zeolite Addition to Liquid Manure	<input type="checkbox"/>	4	5	6	2	
m Lagoon Nitrification/Denitrification Systems	<input type="checkbox"/>	15	20	20	2	
n Fixed-Media Aeration Systems	<input type="checkbox"/>	15	20	20	2	
2. General Practices						
a Vegetative or Wooded Buffers (established)	<input checked="" type="checkbox"/>	7	7	7	1	7.0
b Vegetative or Wooded Buffers (establishing)	<input type="checkbox"/>	2	2	2	1	
3. Freestall Basins						
a Scrape Built Up Manure	<input checked="" type="checkbox"/>	-	3	3	1	1.8
b Frequent Manure Removal	<input checked="" type="checkbox"/>	UD	UD	UD	-	
c Tunnel Ventilation w/Biofilters	<input type="checkbox"/>	-	10	10	1	
d Tunnel Ventilation w/Washing wall	<input type="checkbox"/>	-	10	10	3,4	
4. Open Lots and Corrals						
a Rapid Manure Removal	<input checked="" type="checkbox"/>	4	2	2	1,2	2.8
b Corral Harrowing	<input checked="" type="checkbox"/>	4	2	2	1	2.4
c Surface Amendments	<input type="checkbox"/>	10	5	5	2	
d In-Corral Composting / Stockpiling	<input type="checkbox"/>	4	2	2	1	
e Summertime Deep Bedding	<input type="checkbox"/>	10	5	5	1	
5. Animal Nutrition						
a Manage Dietary Protein	<input checked="" type="checkbox"/>	2	2	2	2	2.0
6. Composting Practices						
a Alum Incorporation	<input type="checkbox"/>	12	8	6	2	
b Zeolite Incorporation	<input type="checkbox"/>	12	8	6	2	
c Carbon:Nitrogen Ratio (C:N) Ratio Manipulation	<input type="checkbox"/>	10	7.5	5	2	
d Composting Static Pile	<input checked="" type="checkbox"/>	6	4.5	3	1	5.1
e Forced Aeration Composting	<input type="checkbox"/>	10	7.5	5	1	
f Forced Aeration Composting w/ Biofilter	<input type="checkbox"/>	12	8	6	1	
7. Land Application¹						
a Soil Injection - Slurry	<input type="checkbox"/>	10	15	7.5	2	
b Incorporation of manure within 24 hrs	<input type="checkbox"/>	10	10	10	2	
c Incorporation of manure within 48 hrs	<input type="checkbox"/>	5	5	5	2	
d Nitrification of lagoon effluent	<input type="checkbox"/>	10	10	15	3,4	
e Low Energy/Pressure Application Systems	<input type="checkbox"/>	7	7	10	1	
f Freshwater Dilution	<input checked="" type="checkbox"/>	5	8	8	1,2	6.8
g Pivot Drag Hoses	<input type="checkbox"/>	8	8	10	1	
h Subsurface Drip Irrigation	<input type="checkbox"/>	10	10	12	1	
Producer must have at least 27 points for compliance					BMP TOTAL	47.9

Notes:

- The ammonia emission reduction effectiveness of each practice is rated numerically based on practical year-round implementation. Variations due to seasonal practices and expected weather conditions have been factored into these ratings. Not implementing a BMP when it is not practicable to do so, does not reduce the point value assigned to the BMP, nor does it constitute failure to perform the BMP. UD indicates that the practice is still under development.
- Land application practices assume practice is conducted on all manure; points will be pro-rated to reflect actual waste treatment; points can be obtained on exported material with sufficient documentation.
- Method used by inspector to determine compliance:
 - = Observation by Inspector
 - = On-Site Recordkeeping Required
 - 3, 4 = Deviation Reporting Required. Equipment upsets and/or breakdowns shall be recorded in a deviation log and if repaired in a reasonable timeframe does not constitute non-compliance with this rule.

I certify that the statements and information contained herein are true, accurate and complete to the best of my knowledge and belief.

Producer Signature 