APPENDIX 3

Monitoring and Reporting Program No. R1-2019-0001

Annual Report

Report Date:	
	(mm/dd/yyyy

North Coast Regional Water Quality Control Board **General Waste Discharge Requirements for Existing Dairies**

Due November 30 each year; 31). Please	; reporting for precedin provide detailed respo				Octobe
Facility Information					
Facility:	Address:				
			Street	City	Zip
Operator:	Address:	No.	Street	City	Zip
Op. Phone:	Op. Email:				
Property Owner:	Address:				
		No.	Street	City	Zip
Own. Phone:	Own. Email: _				
Dairy Animal Class	Present Number of I Animals (check one) Dairy cows Water Buffalo Sheep		applicab	· Buffalo o	
	Goats			Dairy Animal	
Mature Dairy Animals (Milking + dry)					
Heifers (12 to 24 months)					
Calves (birth to 12 months)					
Mature Males: Bulls/Bucks/Rams					
Other (specify)					

The objective of the Annual Report is to provide compliance updates, demonstrate that the dairy is ready for the rainy season, document required water quality monitoring and actions taken to correct identified problems, and to demonstrate that each facility is operating in compliance with the requirements of General Waste Discharge Requirements for Dairies, Order No. R1-2019-0001 (GWDR).

1.	In the previous year, have changes been made to the dairy Water Quality Plan	? Yes 🗌 No 🗀
	If yes, please explain. Include land management changes such as on dairy land or leased, change in average volume of wastewater generated daily, acreage the process water or manure, compost operations, etc.:	•
2.	Has the dairy had a manure or process water discharge to surface water or groundwater in the past year?	Yes 🗌 No 🗀
	If so, where, and how was the problem resolved?	
3.	Are you aware of your responsibility to report any noncompliance with this	
	GWDR on your dairy that endangers human health or the environment within 24 hours of becoming aware of its occurrence?	Yes 🗌 No 🗌
4.	Have all daily, seasonal, and winter rainy season visual inspections of the dairy been performed as listed in the MRP section I.A. to ensure	Van 🗆 Na 🗀
	the dairy is being operated and maintained in compliance with the GWDR?	Yes 🔛 No 🗀

Please answer the following questions pertaining to facility conditions and actions taken within the previous year to comply with conditions of the GWDR:

"N/A" means that the subject is not applicable to the facility covered by this report.

A. Prevent animals from entering any surface water within confinement areas:

("Surface water" means waters of the United States or any tributary to a water of the United States)

System component and condition	Yes	No	N/A	System component and condition	Yes	No	N/A
Are barriers used to keep animals out of surface waters?	Yes	□ No	N/A	Are watercourse crossings designed and maintained to protect water quality?	Yes	□ No	□ N/A
Are feed sites located away from surface waters?	Yes	□ No	N/A				

Description of deficiencies (if any) or additional information.

B. Divert clean stormwater runoff away from manured areas (including heavily used pastures):

System component and condition	Yes	No	N/A	System component & condition	Yes	No	N/A
Do buildings have effective gutters?	Yes	□ No	□ N/A	Is stormwater that contacts manured areas and feed storage areas contained in holding ponds?	Yes	□ No	N/A
Is guttered water diverted away from manured areas?	Yes	□ No	N/A	Is clean stormwater runoff managed separate from manure and process water?	Yes	□ No	N/A
Is guttered water contained in holding ponds?	Yes	□ No	N/A	Are diversion ditches functional and properly maintained to protect surface waters?	Yes	□ No	N/A

Description of deficiencies (if any) or additional information:

C. Please indicate whether the following materials are managed and contained on the dairy during rain events to protect surface water and groundwater:

Material to be contained	Yes	No	N/A	Material to be contained	Yes	No	N/A
All manure solids				Waste milk			
Runoff from solids storage areas				Veterinary waste			
Runoff from corrals that contain manure				Hazardous wastes (pesticides, etc.)			
Milk barn wash water				-	-	-	-
Runoff and leachate from silage				-	-	-	-

Description of deficiencies (if any) or additional information:

D. Manure Ponds

System component and condition	Yes	No	N/A	System component & condition	Yes	No	N/A
Manure ponds are designed to contain all process water and stormwater runoff during a 25-year, 24-hour storm or have a Contingency Plan fully protective of surface water quality?				Design calculations are available for manure storage system?			
Above-ground soil and clay lined manure ponds have a least 2 ft. freeboard? In-ground manure ponds have at least 1 foot of freeboard?				The facility has a solids separation system?			
Ponds are cleaned annually to maintain capacity and check liner integrity?				The pumping system is maintained?			

Description of deficiencies (if any) or additional information:

E. Dead Animal Handling

Are	dead	animals	handled	in a	manner	protective	of surface	water and	
gro	undwa	ater quali	tv?			-			

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F. Photo Documentation per Monitoring and Reporting Plan

Please attach photo documentation of compliance with required preseason pollution prevention measures.

Photos of newly implemented pollution prevention measures to protect surface and groundwater shall be submitted. Examples of pollution prevention includes cleaning of manure ponds, stormwater separation from manured areas, scraping of manured areas, covering manure piles, compost and feed storage areas, impermeable ground covering in these storage areas to prevent groundwater contamination, stream zone protection, and any other best management practices or control measures for water quality protection.

Annually, please include dated photos of the watercourse assessment. This includes photos of riparian vegetation, streambanks, watercourse crossings, and any potential erosion that could discharge to watercourses. Photos are to show current water quality protection and any projects that are in progress to improve water quality.

The objective of the Annual Report is to demonstrate that the dairy is ready for the rainy season and will not discharge sediment and nutrients to surface waters or groundwater.

G. Water Quality Monitoring

The information below summarizes the water quality sampling requirements, as presented in the GWDR Attachment D - Monitoring and Reporting Program (MRP).

. . ..

1. Surface Water Sampling:

Surface waters must be tested for:

Parameter	Units		
Electrical Conductivity (EC)	Mmhos		
Total Ammonia Nitrogen			
$(NH_3 + NH_4^+)$	Mg/L		
Visual observation of stream changes	Write observation such as stream was clear, opaque, slightly turbid, or turbid. Alternatively, turbidity measurements may be used.		
E. coli bacteria	cfu/100 mL		
Enterococci bacteria	cfu/100 mL		

Note: E. coli is only to be tested in freshwaters. Enterococci is only to be tested in waters where salinity is greater than 1 part per thousand more than 5 percent of the time in a calendar year.

2.

- a. Individual Surface Water Sampling: If you are not identified as participating in a group monitoring program, then you are responsible for individual surface water sampling as required in GWDR-Attachment D: MRP. Sampling shall take place during or directly following each of 3 major storm events, after at least 1 inch of rain per 24 hours. Sampling events shall be at least 14 days apart.
 - i. Attach surface water sampling results from November 1 through October 31 for the previous winter rainy season that occurred prior to submittal of this report. Include time and location of each sample collected. Also, attach a map of the sampling locations.

	and location of each san	ipie collected. Also, attach a map of the	sampling locations.						
ii.	,	Describe your sampling methods such as model number and type of field equipment, test kits, measurement devices, etc.:							
	impling: Is this dairy a cur ogram that conducts the s	rent member of a group monitoring urface water monitoring?	Yes ☐ No ☐						
	If so, which group?								
	as all surface water sampl accordance with the GWI	ing been conducted and submitted DR and MRP?	Yes ☐ No ☐						
	If not, please explain:								
Grou	ndwater Sampling								
agricu the ye shall s New o conse Additi	ultural supply wells, shall bear 2020, and then just on sample groundwater in the dairies, expanding dairies, ecutive years after enrollm	ells located at all existing dairies, including sampled once per year for the first the ce every three years thereafter. For example, years 2020, 2021, 2022, then 2025, 2014 and previously inactive dairies shall sament in this GWDR and then once every find may be required by the Regional Watland MRP.	ree years beginning in ample, existing dairies 028, 2031, and so on. mple the first three three years thereafter.						
All gro	oundwater samples must b	pe tested for:							
Para	meter	Units							
Nitra	te	mg/L							
	Dissolved Solids (TDS)	mg/L							
		the dairy need to be tested for total colif	orm bacteria:						
Total	Coliform Bacteria	MPN/100 mL							

Has all ground water quality sampling been completed as described in the MRP? Yes ☐ No ☐

Groundwater results are required to be uploaded to GeoTracker as a searchable PDF copy as described in the MRP. Groundwater monitoring data shall be uploaded to GeoTracker in an Electronic Deliverable Format (EDF).

Have all water quality results from the past 12 months been uploaded to	
GeoTracker as a searchable PDF copy as described in the MRP?	Yes 🗌 No 🗌

Note: Some water quality laboratories can upload the water quality results to GeoTracker for you.

Instructions for setting up an account and the process of claiming a site, formatting and uploading data, and other technical information can be found under the "ESI Overview" and "Getting Started" sections at: http://www.swrcb.ca.gov/water_issues/programs/ust/electronic_submittal/

H. Best Management Practices

In this section, please describe the condition and effectiveness of management measures not previously described elsewhere in this Annual Report. Please attach additional sheets if more space is needed to fully answer these topics.

Erosion Control: Please describe all other measures not previously described, that prevent and minimize the occurrence of erosion and discharge of manure, feed, waste, and soil particles from the dairy to surface water or groundwaters:
Nuisance Control: Please describe all measures taken to prevent nuisances. Include odors, breeding mosquitoes, damage from burrowing animals, damage from equipment during removal of solids, embankment settling, erosion seepage, excess weeds, algae, and other vegetation that could compromise the needed capacity or proper functioning of your facility and/or degrade water quality:
Groundwater Protection: Describe measures taken to protect groundwater from contamination at wellheads, sinkholes, and tile drains:
Is manure and nutrient application to pastures or croplands performed at rates which are reasonable for the crop, soil, climate, special local situations, management system, and type of manure?

5.	By what date this year is nutrient application to pastures and cropland complete?			
6.	How are fall and winter nutrient application prevented from entering surface waters or percolating to groundwater?			
	Example: Include distance applied from creeks and drainages, avoidance of standing water such as in wetlands, application during dry weather, application to vegetated areas, etc.:			
7.	Are the liners of the manure ponds protective of water quality (free of weeds, animal burrows, and cracks that may disturb the liner)? Please describe:			
8.	Do the manure ponds have sufficient storage capacity prior to the rainy season as required in the GWDR? Describe the method used to make this determination:			
9.	Please describe the measures taken to avoid surface runoff of manure constituents from the dairy's land application areas:			
10	Describe the measures taken to separate or divert stormwater from contacting manured areas, corrals, pens, and animal housing areas:			
11	Describe the measures taken to minimize infiltration of manure-laden water into underlying soils within manured areas, corrals, pens, and animal housing areas:			

I. Nutrient Management for Dairies that Apply Nutrients to Pastures or Cropland

Has a Nutrient Management Plan (NMP per MRP-Appendix 2) been prepared or revised for the dairy? Yes ☐ No [
If yes, what is the year the NMP is or will be finalized and who completed the NMP?
Year of NMP:
Technical Service Provider/Approving Agency:
Number of acres of pasture:
Number of acres of other crops and crop type:
For facilities with a prepared Nutrient Management Plan (NMP):
How has the dairy NMP been implemented within the past year?
Describe pasture or crop rotation practices and other management practices implemented
during the past year to ensure nutrients applied to pasture or croplands were applied at agronomic rates. Provide the nutrient (nitrogen and phosphorus) budget calculations for each applicable field/crop type for the past year to demonstrate whether nutrients applied were at agronomic rates. If sampling of manure, process water, soil, and/or plant tissue was complete in the past year, please demonstrate how these results were utilized in the nutrient budget calculations:
Is the dairy in compliance with NMP requirements for manure, soil, and plant tissue sampling? Yes No
If so, provide the nutrient budget calculations to demonstrate that the dairy is applying nutrien at agronomic rates:
Please add any comments regarding soil sampling results such as plans to adjust nutrient
application rates at specific locations to meet agronomic rates:

For facilities without a prepared Nutrient Management Plan:

In the past year, was manure and process water generated at your facility applied to pastures, fields or crop lands at rates that are agronomically sound for the crop, soil, climate, special local situations, management system, and manure/wastewater characteristics?

Please explain:	Yes L
Tiodos explain.	
Describe crop rotation practiced within the past year and how y application at agronomic rates:	ou accounted for nutrient
Do you plan on obtaining an NMP for your dairy and if so, what	date do vou expect com
npost	
	g at dairies however, disc
GWDR Condition B.5. on pages 18-19, encourages composting	g at dairies however, disc Yes ⊑
	Yes [
GWDR Condition B.5. on pages 18-19, encourages composting of waste to surface waters and groundwater are prohibited. Does the dairy conduct composting operations? If yes, please explain how the composting practice is managed waters and groundwater: Is the composting practice in accordance with State Water Boa	Yes ☐ to avoid discharges to s
GWDR Condition B.5. on pages 18-19, encourages composting of waste to surface waters and groundwater are prohibited. Does the dairy conduct composting operations? If yes, please explain how the composting practice is managed waters and groundwater:	Yes ☐ to avoid discharges to su

K. Tribal Cultural Resources Protection

The Tribal Cultural Resources Mitigation Program (GWDR - Attachment E) is require operators must familiarize themselves with this information and follow the steps indicarchaeological resources are discovered.					
	Is the dairy compliant with the TCRMP?	Yes 🗌 No 🗌			
L. Wa	ater Conservation				
	The GWDR encourages water conservation. The Water Quality Plan, second importance of water conservation. Please describe the water conservation within the past year on the dairy including pastures and cropland that hel (Examples: vegetate bare soil areas, use water efficiently, repair leaks in utilize rain gutters on buildings and discharge the clean stormwater to vegetate stormwater to recharge groundwater, use recycled water, dry scrap catch rainwater in basins for re-use, practice no-till on pastures and crople freshwater use where possible, etc.):	cribe the water conservation measures practiced tures and cropland that help to conserve water. er efficiently, repair leaks in a timely manner, the clean stormwater to vegetated areas, infiltrate recycled water, dry scrape manured areas,			
M. Ri	parian Management Planning				
The Riparian Management Plan (RMP) is located at the end of the Water Quality Plan- Appendix 1.					
	Does the owned and leased dairy property, including the production area pastures, and cropland, contain areas along creeks or small drainages that flow between storm events?	, Yes □ No □			
	If yes, please specify the actions within the past year that are being taken to protect this area including riparian vegetation growing along streams and other watercourses:				
	The RMP is to be submitted to the Regional Water Board by November 30, 2020 [Extended to July 1, 2021].				
	Is the RMP for the dairy completed and submitted?	Yes 🗌 No 🗌 N/A 🗍			
	Does the dairy comply with the performance measures of the RMP?	Yes 🗌 No 🗌 N/A 🗍			
	If not, what is the plan to comply with the RMP including timing of improv	ements?			

GWDR Finding 8 (page 3) indicates that existing goat, sheep, and water buffalo dairies must

N. Certification of Goat, Sheep, and Water Buffalo Dairies

		bmittal of the Notice of Intent (Attachment A). It dairies have installed adequate water quality	
	Does your goat, sheep, or water buffalo dair	y meet this requirement?	Yes 🗌 No 🗌
	Please describe improvements made to mee	et the GWDR requirements:	
O. Su	mmary		
	Has all required monitoring been conducted	?	Yes 🗌 No 🗌
	Have all required reports been submitted to	the Regional Water Board?	Yes 🗌 No 🗌
	Based on your visual inspections and water results, did your facility operate in compliance		Yes 🗌 No 🗌
	Reports shall be submitted by November 30	of each year (starting in 2021) to:	
	North Coast Regional Water Quality Control 5550 Skylane Boulevard, Suite A Santa Rosa, CA 95403 Phone (707) 576-2220	Board	
	or electronically: Northcoast@waterboards.c	ca.gov	
P. Ce	rtification of Report Preparer		
	I certify under penalty of law that I have persinformation submitted in this report and all a individuals immediately responsible for obtais true accurate and complete. I am aware the false information, including the possibility of	ttachments and that, based on my lining the information, I believe that nat there are significant penalties fo	inquiry of those the information
Prin	ted Name	Title	
Sign	ature	Date (mm/dd/yyyy)	