



**NEW MEXICO
ENVIRONMENT DEPARTMENT**



SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

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www.nmenv.state.nm.us

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

August 8, 2014

Joe Bogle and Abel Villalpando, Owners
Valley View Dairy
15 Hawthorne Rd.
Lake Arthur, NM 88253

U.S. Postal Service™ CERTIFIED MAIL <i>(Domestic Mail Only; No Ins)</i>	
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Joe Bogle and Abel Villalpando Valley View Dairy 15 Hawthorne Rd. Lake Arthur, NM 88253	
PS Form 3800, August 2006	

RE: Discharge Permit Renewal and Modification, DP-921, Valley View Dairy

Dear Messrs. Bogle and Villalpando:

On March 12, 2013, the New Mexico Environment Department (NMED) proposed renewal of the Ground Water Discharge Permit for **Valley View Dairy**, DP-791, pursuant to Subsection H of 20.6.2.3108 NMAC. A draft Discharge Permit Renewal and Modification was sent to you at that time. In response, NMED received comments from the facility on April 23, 2013. All of the comments were considered by NMED. Comments requesting permit revisions not in accordance with the requirements of 20.6.6 NMAC are not addressed by this Discharge Permit. The permittee may file a petition with the New Mexico Water Quality Control Commission (WQCC) requesting a variance from site specific requirements of 20.6.6 NMAC.

NMED issues the enclosed Discharge Permit Renewal and Modification, DP 921, to Joe Bogle and Abel Villalpando, Owners (permittee) pursuant to the New Mexico Water Quality Act (WQA), NMSA 1978 §§74-6-1 through 74-6-17, and the WQCC Regulations, 20.6.2 and 20.6.6 NMAC.

The Discharge Permit contains requirements that shall be complied with by the permittee and are enforceable by NMED pursuant to Sections 20.6.2.3104 and 20.6.6.8 NMAC, WQA, and NMSA 1978 §74-6-5 and §74-6-10. The discharge shall be managed in accordance with all applicable requirements of the Dairy Rule and this Discharge Permit. Issuance of this Discharge Permit does not relieve the permittee of the responsibility to comply with the WQA, WQCC

Joe Bogle and Abel Villalpando, Owners DP-921
August 8, 2014
Page 2 of 2

Regulations, and any other applicable federal, state and/or local laws and regulations, such as zoning requirements and nuisance ordinances.

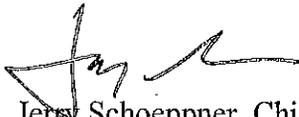
You will be invoiced under separate cover for the remaining permit fee balance of \$2300.00.

Pursuant to Subsection I of NMSA 1978 § 74-6-5, the term of this Discharge Permit shall be for the fixed term of five years. The term of this Discharge Permit will end on August 8, 2019.

Pursuant to Subsection A of 20.6.6.10 NMAC, you are required to submit an application for renewal or renewal/modification to NMED one year prior to the end of the Discharge Permit term.

If you have any questions, please contact Nancy McDuffie at (505) 222-9523 or Gary Westerfield, Agricultural Waste Team Leader, at (505) 827-2713. Thank you for your cooperation during this Discharge Permit review.

Sincerely,



Jerry Schoeppner, Chief
Ground Water Quality Bureau

JS:KK/njm

Encs: Discharge Permit Renewal and Modification, DP-921

cc: Agricultural Waste Team Leader, NMED-GWQB (permit)
District Manager, NMED District III (permit – electronic copy)
NMED Roswell Field Office (permit – electronic copy)
John Romero, Office of the State Engineer (permit – electronic copy)
Loney Ashcraft, Ashcraft Consulting, Inc., P.O. Box 623, Roswell, NM 88202 (permit)

**GROUND WATER DISCHARGE PERMIT - RENEWAL AND MODIFICATION
EXISTING DAIRY FACILITY with a LAND APPLICATION AREA
Valley View Dairy, DP-921**

I. INTRODUCTION AND SUMMARY

The New Mexico Environment Department (NMED) issues this Discharge Permit Renewal and Modification (Discharge Permit), DP-921, to Joe Bogle and Abel Villalpando (permittee) pursuant to the New Mexico Water Quality Act (WQA), NMSA 1978, §§ 74-6-1 through 74-6-17, and the New Mexico Water Quality Control Commission (WQCC) Regulations, 20.6.2 and 20.6.6 NMAC.

NMED's purpose in issuing this Discharge Permit is to control the discharge of water contaminants from Valley View Dairy (dairy facility) for the protection of ground water and those segments of surface water gaining from ground water inflow, for present and potential future use as domestic and agricultural water supply and other uses, and to protect public health.

The activities which produce the discharge, the location of the discharge, and the quantity, quality and flow characteristics of the discharge are briefly described as follows:

A maximum daily discharge volume of 120,000 gallons per day (gpd) of wastewater may be discharged from the production area. Wastewater flows to a concrete-lined sump and is pumped through a screen solids separator into a synthetically lined wastewater impoundment system for storage prior to land application. The wastewater impoundment system consists to two settling impoundments and one storage impoundment. Wastewater is land applied by flood and center pivot irrigation to up to 621 acres of irrigated cropland under cultivation. The modification consists of increasing the maximum daily discharge volume from 115,000 gpd to 120,000 gpd and increasing the acreage of the land application area from 309 acres to 621 acres. The discharge contains water contaminants or toxic pollutants which may be elevated above the standards of Section 20.6.2.3103 NMAC.

The dairy facility is located at 15 Hawthorne Road, approximately eight miles north-northwest of Artesia, in Sections 4, 5, 8, 9 and 10, Township 16S, Range 25E, Eddy County. Ground water most likely to be affected is at a depth of approximately 29 to 68 feet and had a pre-discharge total dissolved solids concentration of approximately 1,710 milligrams per liter.

The original Discharge Permit was issued on May 24, 1993 and subsequently renewed and/or modified on November 10, 1993, May 10, 1999, and December 20, 2004. The application consists of the materials submitted by the permittee dated June 11, 2009, and materials contained in the administrative record associated with issuance of this Discharge Permit. The discharge shall be managed in accordance with all applicable requirements of the Dairy Rule (20.6.6 NMAC) and this Discharge Permit.

Issuance of this Discharge Permit does not relieve the permittee of the responsibility to comply with the WQA, WQCC Regulations, and any other applicable federal, state and/or local laws and regulations, such as zoning requirements and nuisance ordinances.

The following acronyms and abbreviations may be used in this Discharge Permit:

Abbreviation	Explanation	Abbreviation	Explanation
Cl	chloride	NO ₃ -N	nitrate-nitrogen
gpd	gallons per day	S	Sulfur
LADS	land application data sheet(s)	SO ₄	Sulfate
mg/L	milligrams per liter	TDS	total dissolved solids
NMAC	New Mexico Administrative Code	TKN	total Kjeldahl nitrogen
NMED	New Mexico Environment Department	WQA	New Mexico Water Quality Act
NMP	Nutrient management plan	WQCC	Water Quality Control Commission
NMSA	New Mexico Statutes Annotated		

II. FINDINGS

In issuing this Discharge Permit, NMED finds:

1. The permittee is discharging from a facility that meets the definition of "dairy facility" and is subject to the Dairy Rule (20.6.6 NMAC). This dairy facility meets the definition of "existing dairy facility".
2. The permittee is discharging effluent or leachate from the dairy facility that may move directly or indirectly into ground water within the meaning of Section 20.6.2.3104 NMAC.
3. The permittee is discharging effluent or leachate from the dairy facility that may move into ground water of the State of New Mexico which has an existing concentration of 10,000 milligrams per liter or less of total dissolved solids within the meaning of Subsection A of 20.6.2.3101 NMAC.
4. The discharge from the dairy facility is not subject to any of the exemptions of Section 20.6.2.3105 NMAC.
5. Data collected from on-site monitoring wells document ground water contamination attributed to one or more sources at this dairy facility. Ground water quality standards for NO₃-N and TDS have been exceeded according to the criteria of Sections 20.6.2.3101 and 20.6.2.3103 NMAC.
6. The Discharge Permit for this facility last issued on December 20, 2004 (before the effective date of the Dairy Rule of December 31, 2011), required the wastewater impoundment system to have the capacity to store the volume of wastewater discharged

at the maximum daily discharge volume, for a minimum of 60 days plus stormwater runoff and direct precipitation generated from the facility, while preserving two feet of freeboard.

7. The dairy facility was existing as of the effective date of the Dairy Rule (December 31, 2011) and measures the volume of wastewater discharged to a wastewater impoundment(s) using a closed-pipe velocity flow meter installed on the discharge line(s) from all wastewater sources to the wastewater impoundment(s).
8. This Discharge Permit contains requirements associated with the following potential contaminant sources as identified in the application and the administrative record as of the effective date of this Discharge Permit:
 - a) Combination Wastewater/Stormwater Impoundments
 - i. **Clay-lined Combination Wastewater/Stormwater Impoundment** - not authorized for use by this Discharge Permit; was authorized for use by the last Discharge Permit issued prior to the effective date of the Dairy Rule; subject to closure and post-closure ground water monitoring requirements.
 - b) Wastewater Impoundments
 - i. **Settling Pond - South** - authorized for use by this Discharge Permit.
 - ii. **Settling Pond - North** - authorized for use by this Discharge Permit.
 - iii. **Wastewater Storage Pond** - authorized for use by this Discharge Permit.
 - c) Stormwater Impoundments
 - i. **Runoff Pond** - authorized for use by this Discharge Permit.
 - d) Fields within the Land Application Area
 - i. **LAA-A** - authorized for use by this Discharge Permit.
 - ii. **LAA-B** - authorized for use by this Discharge Permit.
 - iii. **LAA-C** - authorized for use by this Discharge Permit.
 - iv. **LAA-D** - authorized for use by this Discharge Permit.
 - v. **LAA-E** - authorized for use by this Discharge Permit.
 - vi. **LAA-F** - authorized for use by this Discharge Permit.
 - vii. **Mayberry 1** - authorized for use by this Discharge Permit.
 - viii. **Mayberry 2** - authorized for use by this Discharge Permit.
 - ix. **Mayberry 3** - authorized for use by this Discharge Permit.

III. APPLICABLE RULES

Sections 20.6.2.3000 through 20.6.2.3114 NMAC and Part 20.6.6 NMAC (Dairy Rule) apply to discharges specific to dairy facilities and their operations.

IV. DISCHARGE PERMIT REQUIREMENTS

The permittee is authorized to discharge water contaminants pursuant to this Discharge Permit which contains requirements authorized or specified by the Dairy Rule. The permittee shall

comply with the Dairy Rule and this Discharge Permit, which are enforceable by NMED. The permittee is authorized to discharge water contaminants subject to the following requirements:

AUTHORIZATION TO DISCHARGE

1. The permittee is authorized to discharge up to 120,000 gpd of wastewater from the production area. Wastewater flows to a concrete-lined sump and is pumped through a screen solids separator into a synthetically lined wastewater impoundment system for storage prior to land application. The wastewater impoundment system consists of two settling impoundments and one storage impoundment. Wastewater is land applied by flood and center pivot irrigation to up to 621 acres of irrigated cropland under cultivation.
2. The permittee is authorized to use the following impoundments for the following purposes in accordance with Subsection B of 20.6.6.20 NMAC.
 - a) **Settling Pond - South** – authorized to receive wastewater for storage prior to land application. This impoundment exists as of the effective date of this Discharge Permit and is synthetically lined. Wastewater from the screen separator flows into this impoundment and from this impoundment into Settling Pond - North.
 - b) **Settling Pond - North** – authorized to receive wastewater for storage prior to land application. This impoundment exists as of the effective date of this Discharge Permit and is synthetically lined. Wastewater from the Settling Pond - South flows into this impoundment and from this impoundment into the Wastewater Storage Impoundment.
 - c) **Wastewater Storage Pond** – authorized to receive wastewater for storage prior to land application. This impoundment exists as of the effective date of this Discharge Permit and is synthetically lined. Wastewater from the Settling Pond - North flows into this impoundment and is pumped from this impoundment to the land application area.
3. The permittee is authorized to apply wastewater and stormwater to all fields within the land application area in accordance with Subsections B, C and I of 20.6.6.21 NMAC. The land application area consists of the following fields for a total land application area of 543 acres.
 - a) **LAA-A** – consists of 30 acres; application is by flood irrigation. This field was authorized by the last Discharge Permit prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater/stormwater and has received wastewater/stormwater as of the effective date of this Discharge Permit. This field is located south of the impoundment system and east of the production area.
 - b) **LAA-B** – consists of 43 acres; application is by flood irrigation. This field was authorized by the last Discharge Permit prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater/stormwater and has received wastewater/stormwater as of the effective date of this Discharge Permit. This field is located west of the impoundment system and north of the production area.

- c) **LAA-C** – consists of three small fields for a total of 28 acres; application is by flood irrigation. This field was authorized by the last Discharge Permit prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater/stormwater and has received wastewater/stormwater as of the effective date of this Discharge Permit. This field is located south and southwest of the production area.
- d) **LAA-D** – consists of 81 acres; application is by center pivot irrigation. This field was authorized by the last Discharge Permit prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater/stormwater and has received wastewater/stormwater as of the effective date of this Discharge Permit. This acreage now under center pivot as one field original consisted as three flood irrigated fields known as LAA-E, LAA-D and a field with no designation. This field is located west of the production area.
- e) **LAA-E** – consists of 41 acres; application is by flood irrigation. This field was authorized by the last Discharge Permit prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater/stormwater and has received wastewater/stormwater as of the effective date of this Discharge Permit. This field was original known as LAA-F and consisted of 71 acres; the east portion of the original field is now under Center Pivot (LAA-F). This field is located south-southeast of the production area, south of West Funk Road and west of LAA-F.
- f) **LAA-F** – consists of 53 acres; application is by center pivot irrigation. This field was authorized by the last Discharge Permit prior to the effective date of the Dairy Rule (December 31, 2011) to receive wastewater/stormwater and has received wastewater/stormwater as of the effective date of this Discharge Permit. This acreage now under center pivot is the east portion of the flood irrigated field previously known as LAA-F. This field is located east of LAA-E.
- g) **Mayberry 1** – consists of 121 acres; application is by center pivot irrigation. This field has not received wastewater and/or stormwater as of the effective date of this Discharge Permit. This field is located west of Mayberry 2.
- h) **Mayberry 2** – consists of 121 acres; application is by center pivot irrigation. This field has not received wastewater and/or stormwater as of the effective date of this Discharge Permit. This field is located south of LAA-D, south of West Funk Road.
- i) **Mayberry 3** – consists of 100 acres; application is by center pivot irrigation. This field has not received wastewater and/or stormwater as of the effective date of this Discharge Permit. This field is located east of Mayberry 2.

DAIRY RULE TRANSITION REQUIREMENTS

- 4. The permittee shall have 90 days from the effective date of this Discharge Permit (**by November 6, 2014**) to submit all the necessary information to comply with Sections 20.6.6.10 through 20.6.6.13 NMAC, in accordance with Subsection D of 20.6.6.35 NMAC. The permittee shall submit the necessary information by completing the application form for Renewal and/or Modification located at the following address:
 - <http://www.nmenv.state.nm.us/gwb/NMED-GWQB-dairies.htm>

The following sections of the application form for renewal and/or modification shall be completed, and the form shall be signed by the permittee and notarized prior to submission.

- a) Introduction – *Applicant's Signature and Notary Certification only*
- b) Part I.A
- c) Part II.A.1
- d) Part II.A.2(a) and (b)
- e) Part II.B.1 through 7
- f) Part II.C
- g) Part II.D.2
- h) Part II.D.3(a) and (b)
- i) Part II.3
- j) Part II.F
- k) Part IV.B

ENGINEERING AND SURVEYING REQUIREMENTS

- 5. The permittee shall comply with the requirements of Section 20.6.6.17 NMAC and shall submit to NMED all information or documentation required by the applicable portions of Section 20.6.6.17 NMAC.

OPERATIONAL REQUIREMENTS

- 6. The permittee shall comply with the requirements of Sections 20.6.6.20 and 20.6.6.21 NMAC, and shall submit to NMED all information or documentation required by the applicable portions of Sections 20.6.6.20 and 20.6.6.21 NMAC.
- 7. The permittee shall provide written notice to NMED regarding any changes to the presence of lactating cows and/or the status of wastewater discharges at the facility in accordance with Subsection A of 20.6.6.20 NMAC (summarized in the table below).

Activity	Notification of Estimated Date	Verification of Actual Date
Removal of Lactating Cows	Not required	Within 30 days of removal
Reintroduction of Lactating Cows	Not required	Within 30 days of reintroduction
Cessation of wastewater discharge	Not required	Within 30 days of cessation of discharge
Recommencement of Discharge	Minimum 30 days prior to recommencement	Within 30 days of recommencement

8. The permittee is authorized and required to transfer stormwater collected in the unlined stormwater impoundment(s) to the wastewater impoundment(s) in accordance with Subsection I of 20.6.6.20 NMAC.
9. Pursuant to Subsection D of 20.6.6.35 NMAC, the permittee shall have 90 days from the effective date of this Discharge Permit (**by November 6, 2014**) to submit documentation in accordance with Subsection M of 20.6.6.20 NMAC to demonstrate that the existing flow meter(s) meets the requirements of Subsection M of 20.6.6.20 NMAC.
10. The permittee is authorized to use the following existing flow meter(s) provided that the requirements of Subsection M of 20.6.6.20 NMAC have been met].
 - a) **Barn Sump Meter** – located on the discharge line from the concrete-lined barn sump to the wastewater impoundment system; measures the volume of wastewater discharged from the production area to the wastewater impoundment system.
 - b) **LAA Meter** – located on the discharge line from Wastewater Storage Pond to the land application area; measures the volume of wastewater discharged from Wastewater Storage Pond to each field in the land application area.
11. The permittee is authorized, pursuant to Subsection S of 20.6.6.20 NMAC, to land apply manure solids and composted material to the land application area. Manure solids and composted material shall be applied in accordance with the Nutrient Management Plan (NMP) required by Subsection I of 20.6.6.21 NMAC.
12. The permittee is authorized to blend wastewater with fresh irrigation water for land application using any of the methods provided in Subsection D of 20.6.6.21 NMAC. Fresh water may be added to a wastewater impoundment prior to land application in accordance with Subsection D of 20.6.6.21 NMAC.
13. The permittee shall remove crops from the following fields within the land application area using the following methods in accordance with Subsection I and J of 20.6.6.21 NMAC. Crops may be grazed prior to and between mechanical harvests, however, nitrogen removal credit shall not be taken for grazing activities unless a grazing plan is developed and submitted in accordance with Subsections I and J of 20.6.6.21 NMAC.
 - a) **LAA-A** – crops shall be harvested mechanically.
 - b) **LAA-B** – crops shall be harvested mechanically.
 - c) **LAA-C** – crops shall be harvested mechanically.
 - d) **LAA-D** – crops shall be harvested mechanically.
 - e) **LAA-E** – crops shall be harvested mechanically.
 - f) **LAA-F** – crops shall be harvested mechanically.
 - g) **Mayberry 1** – crops shall be harvested mechanically.
 - h) **Mayberry 2** – crops shall be harvested mechanically.
 - i) **Mayberry 3** – crops shall be harvested mechanically.

The permittee shall submit an application for Discharge Permit Modification to NMED for any proposed changes to the method(s) of crop removal for any field within the land application area as required by Subsection K of 20.6.6.21 NMAC.

14. The permittee shall complete the following items and submit documentation to NMED as summarized in the following table:

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
A.	<p><u>Scaled Map of Dairy Facility – Updates:</u></p> <p>Following completion of any additions or changes to the dairy facility which affect the items listed in Subsection U of 20.6.6.20 NMAC, the permittee shall update and resubmit the facility map.</p>	<p>Within 90 days of any addition or change.</p>	<p>20.6.6.20.V NMAC</p>
B.	<p><u>Nutrient Management Plan:</u></p> <p>Develop and submit annual updates to the NMP.</p>	<p>Annually: May 1</p>	<p>20.6.6.21.I NMAC</p>
C.	<p><u>Backflow Prevention:</u></p> <p>i) Complete installation of backflow prevention methods or devices.</p> <p>ii) Submit confirmation of installation.</p>	<p>November 6, 2014</p> <p>February 4, 2015</p>	<p>20.6.6.21.M NMAC</p>
D.	<p><u>Backflow Prevention by Reduced Pressure Principle Backflow Prevention Assembly – Inspection and Maintenance:</u></p> <p>Submit copies of inspection and maintenance records and test results for each RP device, should the device be used to satisfy the requirements of Subsection M of 20.6.6.21 NMAC.</p>	<p>Annually: May 1</p>	<p>20.6.6.21.N NMAC</p>

GROUND WATER MONITORING REQUIREMENTS

15. The permittee shall comply with the requirements of Section 20.6.6.23 NMAC and shall submit to NMED all information or documentation required by the applicable portions of Section 20.6.6.23 NMAC.
16. Monitoring wells shall be constructed and completed in accordance with Subsection D of 20.6.6.23 NMAC.
17. Monitoring wells shall be permanently identified in accordance with Subsection C of 20.6.6.23 NMAC.
18. Pursuant to Subsection D of 20.6.6.35 NMAC, the permittee shall have 90 days from the effective date of this Discharge Permit (**by November 6, 2014**) to submit the information

required by Paragraph (6) of Subsection A of 20.6.6.23 NMAC to verify that monitoring wells in existence as of the effective date of this Discharge Permit and prior to the effective date of the Dairy Rule (December 31, 2011) are appropriate for continued use for ground water monitoring.

The permittee is authorized to use the following monitoring well(s) provided that the requirements of Paragraph (6) of Subsection A of 20.6.6.23 NMAC are met.

- a) **MW-1**, hydrologically upgradient of all contamination sources at the dairy facility; located northwest of LAA-D.
- b) **MW-2A**, hydrologically downgradient of the old clay-lined combination impoundment; located east of the impoundment.
- c) **MW-5**, hydrologically downgradient of LAA-C; located east-southeast of LAA-C.
- d) **MW-6**, hydrologically downgradient of LAA-D; located east of LAA-D.

19. The permittee shall complete the following items and submit documentation to NMED as summarized in the following table:

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
A.	<p><u>Ground Water Monitoring – Existing Wastewater Impoundments:</u></p> <p>Install the following monitoring wells within 75 feet hydrologically downgradient of the top inside edge of each <u>existing</u> wastewater impoundment:</p> <ol style="list-style-type: none"> i) MW-7, hydrologically downgradient of synthetically lined wastewater system and Runoff Pond. Replaces MW-2 (damaged). 	December 6, 2014	20.6.6.23.A(1) NMAC and 20.6.6.23.A(7) NMAC
B.	<p><u>Ground Water Monitoring – Existing Land Application Area:</u></p> <p>Install the following monitoring wells within 50 feet hydrologically downgradient of the downgradient boundary of <u>existing</u> fields within the land application area:</p> <ol style="list-style-type: none"> i) MW-8, hydrologically downgradient of LAA-A. ii) MW-9, hydrologically downgradient of LAA-B. iii) MW-10, hydrologically downgradient of LAA-B. iv) MW-11, hydrologically downgradient of LAA-E. v) MW-12, hydrologically downgradient of LAA-E. vi) MW-13, hydrologically downgradient of LAA-F. 	December 6, 2014	20.6.6.23.A(4) (a) and (b) NMAC
C.	<p><u>Ground Water Monitoring – New Land Application Area:</u></p> <p>Install the following monitoring wells within 50 feet hydrologically downgradient of the downgradient boundary of <u>new</u> fields within the land application area:</p> <ol style="list-style-type: none"> i) MW-14, hydrologically downgradient of Mayberry 1 ii) MW-15, hydrologically downgradient of Mayberry 2 iii) MW-16, hydrologically downgradient of Mayberry 3 	Prior to applying wastewater or stormwater to the field.	20.6.6.23.A(4) (b) NMAC

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
D.	<p><u>Ground Water Sampling and Reporting – Routine:</u></p> <p>Collect and analyze ground water samples quarterly from all monitoring wells identified in this Discharge Permit. Sampling shall be performed and results submitted in accordance with Subsection F of 20.6.6.23 NMAC.</p>	Quarterly	20.6.6.23.G
E.	<p><u>Ground Water Sampling – New Monitoring Wells:</u></p> <p>Collect ground water samples from monitoring wells required to be installed <i>within 120 days of the effective date of the Discharge Permit</i>. Sampling shall be performed in accordance with Subsection F of 20.6.6.23 NMAC using the monitoring wells required to be installed in the following locations:</p> <ul style="list-style-type: none"> i) MW-7, hydrologically downgradient of synthetically lined wastewater system and Runoff Pond. ii) MW-8, hydrologically downgradient of LAA-A. iii) MW-9, hydrologically downgradient of LAA-B. iv) MW-10, hydrologically downgradient of LAA-B. v) MW-11, hydrologically downgradient of LAA-E. vi) MW-12, hydrologically downgradient of LAA-E. vii) MW-13, hydrologically downgradient of LAA-F. 	January 5, 2015	20.6.6.23.H NMAC
F.	<p><u>Ground Water Sampling – New Monitoring Wells for New Fields:</u></p> <p>Collect ground water samples from monitoring wells required to be installed <i>within the term of the Discharge Permit</i>, (i.e., installed prior to land application on a newly activated field). Sampling shall be performed in accordance with Subsection F of 20.6.6.23 NMAC using the monitoring wells required to be installed in the following locations:</p> <ul style="list-style-type: none"> i) MW-14, hydrologically downgradient of Mayberry 1 ii) MW-15, hydrologically downgradient of Mayberry 2 iii) MW-16, hydrologically downgradient of Mayberry 3 	Within 30 days of well completion.	20.6.6.23.H NMAC
G.	<p><u>Monitoring Well Survey and Ground Water Flow Determination:</u></p> <p>Survey monitoring wells required to be installed <i>within 120 days of the effective date of the Discharge Permit</i> to a USGS benchmark.</p> <p>Survey monitoring wells required to be installed <i>within the term of the Discharge Permit</i> to a USGS benchmark.</p>	<p>January 5, 2015</p> <p>Upon well completion, to be included in the well completion report.</p>	20.6.6.23.I NMAC
H.	<p><u>Monitoring Well Completion Report:</u></p> <p>Submit a monitoring well completion report for monitoring wells required to be installed <i>within 120 days of the effective date of the Discharge Permit</i>. The report shall include information from all monitoring wells.</p>	February 4, 2015	20.6.6.23.J NMAC

Item No	Action Required and Submittal Due to NMED	Due Date	Citation
I.	<p><u>Monitoring Well Completion Report – Monitoring Wells for New Fields:</u></p> <p>Submit a monitoring well completion report for monitoring wells required to be installed <i>within the term of the Discharge Permit</i> (i.e., installed prior to land application on a newly activated field). The report shall include information from all monitoring wells.</p>	<p>Within 60 days of well completion.</p>	<p>20.6.6.23.J NMAC</p>
J.	<p><u>Ground Water Elevation Contour Maps:</u></p> <p>Develop and submit ground water elevation contour maps on a quarterly basis using data collected from all monitoring wells used for ground water monitoring at the dairy facility.</p>	<p>Quarterly</p>	<p>20.6.6.23.L NMAC</p>

MONITORING REQUIREMENTS

20. The permittee shall comply with the requirements of Sections 20.6.6.24 and 20.6.6.25 NMAC, and shall submit to NMED all information or documentation required by the applicable portions of Sections 20.6.6.24 and 20.6.6.25 NMAC.
21. The permittee shall submit monitoring reports to NMED on a quarterly schedule that contain monitoring data and information collected pursuant to the Dairy Rule and submitted in accordance with Subsection A of 20.6.6.24 NMAC.

Quarterly monitoring reports shall be submitted according to the following schedule:

- January 1 through March 31 (first quarter) – report due by **May 1**
- April 1 through June 30 (second quarter) – report due by **August 1**
- July 1 through September 30 (third quarter) – report due by **November 1**
- October 1 through December 31 (fourth quarter) – report due by **February 1**

22. The permittee shall perform the following monitoring and submit to NMED the required documentation in monitoring reports as summarized in the following table:

Item No	Action Required and Submittal Due to NMED	Due Date	Citation
A.	<p><u>Wastewater Volume Measurement and Reporting:</u></p> <p>Using a flow meter(s) installed on the discharge line(s), measure the volume of all wastewater discharged to the impoundment(s) authorized to contain wastewater. Submit the information.</p>	<p>Quarterly</p>	<p>20.6.6.24.C NMAC</p>
B.	<p><u>Stormwater Sampling and Reporting:</u></p> <p>Collect and analyze stormwater samples on a quarterly basis from each stormwater impoundment and submit results.</p>	<p>Quarterly</p>	<p>20.6.6.24.D NMAC</p>

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
C.	<u>Flow Meter Field Calibration:</u> Perform flow meter field calibrations annually and submit a flow meter field calibration report.	Annually: May 1	20.6.6.24.E NMAC
D.	<u>Volume of Wastewater and Wastewater/Stormwater Land Applied – Measurement and Reporting:</u> Measure the volume of all wastewater discharges to each field within the land application area using a flow meter(s) and submit the information.	Quarterly	20.6.6.25.A NMAC
E.	<u>Wastewater to be Land Applied – Sampling and Reporting:</u> The permittee shall collect a representative wastewater sample (consisting of eight subsamples) from each wastewater or combination wastewater/stormwater impoundment. Analyze each representative wastewater sample on a quarterly basis and submit results.	Quarterly	20.6.6.25.C NMAC
F.	<u>Manure Solids – Nitrogen Content:</u> Should a permittee choose to use actual nitrogen content values of on-site manure solids for the purpose of applying to the land application area, the permittee shall collect and analyze samples annually, and submit results.	Quarterly	20.6.6.25.D NMAC
G.	<u>Irrigation Water – Sampling, Volume Applied and Reporting:</u> Collect and analyze fresh irrigation water samples on an annual basis from each irrigation well associated with the land application area. Estimate the annual volume of irrigation water applied to each field from each well. Submit estimated volumes and analytical results.	Annually: May 1	20.6.6.25.E NMAC
H.	<u>Fertilizer Application Reporting:</u> Maintain and submit a log of all additional fertilizer applied to each field within the land application area.	Quarterly	20.6.6.25.F NMAC
I.	<u>Land Application Data Sheets:</u> Complete and submit land application data sheets (LADS) for each field within the land application area.	Quarterly	20.6.6.25.G NMAC
J.	<u>Crop Yield Documentation:</u> Submit crop yield documentation and plant and harvest dates of each crop grown.	Quarterly	20.6.6.25.H NMAC
K.	<u>Nitrogen Concentration of Harvested Crop:</u> Determine the percent total nitrogen and dry matter of each harvested crop and submit results.	Quarterly	20.6.6.25.I NMAC

Item No.	Action Required and Submittal Due to NMED	Due Date	Citation
L.	<u>Nitrogen Removal Summary of Harvested Crop:</u> Develop and submit a nitrogen removal summary for each crop grown on each field within the land application area.	Quarterly	20.6.6.25.J NMAC
M.	<u>Soil Sampling – Initial Event in a Discharge Permit Term:</u> Collect and analyze <u>initial</u> soil samples from each field in the land application area for the first soil sampling event during the first year following the effective date of this Discharge Permit. Submit the results.	May 1, 2015	20.6.6.25.K NMAC
N.	<u>Soil Sampling – Routine:</u> Collect and analyze <u>routine</u> soil samples annually from each field in the land application area beginning the year following the initial sampling event. Submit the results.	Annually: May 1	20.6.6.25.L NMAC

CONTINGENCY REQUIREMENTS

23. The permittee shall comply with the requirements of Section 20.6.6.27 NMAC and shall submit to NMED all information or documentation required by the applicable portions of Section 20.6.6.27 NMAC.

CLOSURE REQUIREMENTS

24. The permittee shall comply with the requirements of Section 20.6.6.30 NMAC and shall submit to NMED all information or documentation required by the applicable portions of Section 20.6.6.30 NMAC.
25. Only upon written notification by certified mail from NMED, shall the permittee abandon the following well(s) previously used for monitoring in accordance with Subsection C of 20.6.6.30 NMAC. The permittee is not required to perform routine ground water sampling from the following well(s); however, NMED may collect ground water samples from the well(s) pursuant to Subsection D of 20.6.2.3107 NMAC.
- a) **MW-3**, located south of LAA-F, west of the pivot tower.

The well abandonment report shall be submitted to NMED within 60 days of completion of well plugging activities.

26. Within 120 days of the effective date of the Discharge Permit (**by December 6, 2014**), the permittee shall abandon the following well(s) previously used for monitoring in accordance with Subsection C of 20.6.6.30 NMAC.
- a) **MW-2 (damaged)**, located off the northeast corner of the synthetically lined Runoff Pond.

- b) **MW-4 (dry)**, located southeast of LAA-F.

The well abandonment report shall be submitted to NMED within 60 days of completion of well plugging activities.

27. Within two years of the effective date of the Discharge Permit (**by August 8, 2016**), the permittee shall complete closure of the following impoundment(s) in accordance with Paragraph (2) of Subsection A of 20.6.6.30 NMAC.

- a) **Clay-lined Combination Wastewater/Stormwater Impoundment** - located north of the synthetically line wastewater impoundment system and Runoff Pond.

GENERAL REQUIREMENTS

28. The permittee shall operate in a manner such that standards and requirements of Sections 20.6.2.3101 and 20.6.2.3103 NMAC are not violated.
29. The permittee shall retain required records for a minimum period of 10 years from the date of sample collection, measurement, report or application in accordance with Section 20.6.6.33 NMAC.
30. Transfer of a Discharge Permit for a dairy facility shall be completed in accordance with Section 20.6.6.34 NMAC.
31. To renew this Discharge Permit, the permittee shall submit an application for renewal, renewal and modification, or renewal for closure at least one year prior to the expiration date of the Discharge Permit in accordance with Section 20.6.6.10 NMAC.
32. In accordance with Subsection A of 20.6.6.9 NMAC, the permittee shall remit a permit fee payment equal to one-tenth of the applicable permit fee from Table 1 of Section 20.6.2.3114 NMAC on the first occurrence of August 8 after the effective date of the Discharge Permit, and annually thereafter until expiration or termination of the Discharge Permit.

V. **ADDITIONAL CONDITIONS**

In addition to the requirements of 20.6.6 NMAC, the permittee shall comply with the following conditions as authorized by Subsection H of 20.6.6.10 NMAC pursuant to Section 74-6-5 WQA. A hearing may be requested on additional conditions in accordance with Section 20.6.6.15 NMAC.

1. This Discharge Permit does not contain additional conditions.

Valley View Dairy, DP-921

August 8, 2014

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VI. PERMIT ISSUANCE

Pursuant to WQA 74-6-5(I), the term of this Discharge Permit shall be for the fixed term of five years from the effective date of the Discharge Permit.

Issued by: New Mexico Environment Department

Effective Date: **August 8, 2014**

Expiration Date: **August 8, 2019**



JERRY SCHOEPPNER
Chief, Ground Water Quality Bureau
New Mexico Environment Department