

NMP Technical Review
New Mexico General Permit No. NMG010000

Facility Name: Bright Star Dairy
P.O. Box 167
Mesquite, New Mexico 88048

Permit No.: NMG010033

Type (ex: dairy, non-dairy cattle, etc): Dairy Cattle (Large CAFO)

County: Dona Ana

If located in Bernalillo, Chavez, Eddy, Sandoval, San Juan, or Valencia county, is EAP and metals testing included in NMP in accordance with Part III.D.8? N/A

Previously permitted: Yes

Noteworthy enforcement action: No (minor enforcement action due to late annual report submittal)
If no, previous permit no.: NMG010033

Receiving stream: Black Mountain – 12 Digit WBD HUC 130301020903

Impaired waterbody: No

If so, for what pollutant(s): No

EPA approved or established TMDL: No

Antidegradation: No
Stream listed as Tier 2/2.5: N/A
Stream listed as Tier 3: N/A

NMP developed by certified specialist: Yes

NMP elements (other than land application and adequate storage) technically complete: Yes

Employee Training: Included in the NMP. Employees responsible for permit compliance activities will be trained once a year. Training topics may include land application, facility operation and maintenance, housekeeping, materials management procedures, record keeping, and spill response and clean up. Different levels of personnel may receive training for different topics. Employees new to permit compliance activities will be trained prior to beginning any compliance activity. Training Sessions will be held annually, the first week of March. Dates, topics, and personnel present will be recorded on the employee training log and kept in the NMP.

Additional comments: No

NOI/NMP Administrative Review Check List
New Mexico General Permit No. NMG010000

Facility Name: Bright Star Dairy
Permit Number: NMG010033

NOI (Form 2B) administratively complete: Yes

NMP included: Yes

NMP administratively complete: Yes (All manure and wastewater is transferred to a 3rd party)

FEDERAL REGULATIONS	LOCATION IN NMP / COMMENTS										
40 CFR Part 122.42(e)(1)(i): Ensure adequate storage of manure, litter, and process wastewater	<p>The dairy produces approximately 12,202 tons of dry manure annually. Manure is stored in the pens and hauled off-site to 3rd party farmers in the spring and fall before planting. The dairy produces up to 60,000 gallons of effluent per day or 21,900,000 gallons annually. The Wastewater Storage Lagoon has a 60+ day storage capacity. Currently Bright Star Dairy applies its wastewater off-site to a 3rd party farmer.</p> <p>Bright Star Dairy is in the process of designing a Total Evaporation Lagoon. Within the next year, Bright Star will be total retention. The dairy is an open lot system. No compost or litter is utilized for bedding. No commercial fertilizer is imported from external sources.</p> <table><tr><th>Storage Structure</th><th>Type of Storage</th><th>Liner Material</th><th>Gallons</th><th># of Days</th></tr><tr><td>Combination Wastewater/ Runoff Lagoon</td><td>Wastewater/Storm water</td><td>HDPE</td><td>6,239,190</td><td>60+</td></tr></table>	Storage Structure	Type of Storage	Liner Material	Gallons	# of Days	Combination Wastewater/ Runoff Lagoon	Wastewater/Storm water	HDPE	6,239,190	60+
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Combination Wastewater/ Runoff Lagoon	Wastewater/Storm water	HDPE	6,239,190	60+							
40 CFR Part 122.42(e)(1)(ii): Mortality management.	All animals are hauled off daily to a renderer. Name and address of the renderer is recorded in the CNMP. Compost procedures are attached. Composting of dead animals will be an alternative method used if the renderer fails to pick up the dead animals. Compost will be hauled off to a 3rd party. Tons and 3rd party name and address will be recorded in the CNMP in the records section.										
40 CFR Part 122.42(e)(1)(iii): clean water diversion.	There is a berm on the east side of the dairy to prevent run-on into the production area. Outside water is diverted from the production area to the arroyos that run along the north and south borders of Bright Star Dairy. The shade on the south side of Bright Star Dairy has a gutter and storm water is piped to the arroyo. The entire site is used in the runoff calculations for sizing the two combination wastewater/storm water runoff lagoon.										
40 CFR Part 122.42(e)(1)(iv): Prevent direct contact of animals with water of US.	Animals do not have access to waters of the US. All animals are confined in a fenced open lot system. The lagoon is fenced.										
40 CFR Part 122.42(e)(1)(v): Chemical handling.	Chemicals are stored in the proper containers. Cleaning agents used in the wash up are stored in the milk barn in totes or drums. Iodine is stored in a bulk tank. Diesel fuel is stored in tanks. Engine oil is stored inside the shop area in 55 gallon drums. All used oil is hauled off. Bags of absorbent material is kept on site. The following procedures are used if a spill occurs:										

FEDERAL REGULATIONS	LOCATION IN NMP / COMMENTS
	<ol style="list-style-type: none"> 1. Spill extent will be assessed. 2. Call for help if needed. 3. Use a skid loader or tractor with blade to contain or divert spill if possible. 4. Complete the cleanup and repair the necessary components. <p>Emergency contacts and procedures are described in the Emergency Action Plan.</p>
40 CFR Part 122.42(e)(1)(vi): conservation practices, including buffers to control runoff	Not Applicable. Wastewater is pumped to a 3rd party farmer for land application. There is a berm around the entire perimeter of the dairy to ensure no runoff leaves the property.
40 CFR Part 412.4(c)(5): Setback requirements for down-gradient surface waters, open tile line intake structure, sinkhole, agricultural well head, or other conduit to surface water: 100 ft setback, 35 ft vegetative buffer, or compliance alternative.	No land application is authorized at this facility.
40 CFR Part 122.42(e)(1)(vii): protocols for testing of manure, soil, litter, or process wastewaters.	Manure samples are taken annually. The first dry layer of manure is scraped away before the sample is taken. A minimum of ten samples are taken throughout the pens and combined for a composite sample. Samples are sent to the laboratory for analysis. Litter is not used at this facility. Process wastewater samples are taken quarterly. A contracted company takes a sample from the storage lagoon for testing. Nitrogen and Phosphorus are tested by a contracted laboratory. This facility does not land apply wastewater so soil samples are not applicable. Wastewater is pumped to a 3rd party farmer.
40 CFR Part 412.4(c)(2): NMP must incorporate determination of application rates	<p>No nutrients are applied to land at this facility. All manure and wastewater goes to 3rd party farmers. Wastewater and manure analysis reports are given to 3rd party farmers. A log is kept of monthly meter readings of wastewater that is pumped to the 3rd party farmer. A log is kept of tonnages of manure trucked to 3rd party farmers.</p> <p>Bright Star is in the process of designing a Total Evaporation Lagoon. Within the next year, Bright Star will be total retention.</p>
40 CFR Part 122.42(e)(1)(viii): protocols for land application.	Not applicable. All manure and waste water is transferred to a 3 rd party.
40 CFR Part 412.4(c)(4): NMP must incorporate inspection of land application for leaks	No land application is authorized for this facility. The NMP includes inspections for leaks.
40 CFR Part 122.42(e)(1)(ix): record keeping.	Daily inspection of Water Line Inspection Log Sheet. Weekly inspections of Storage and Containment Structure Inspections Log Sheet and Storm Water Management Structure Inspections Log Sheet. Quarterly inspections of Monitoring Well Analysis. Annual. Comprehensive Inspection Report, Annual Dry Manure Analysis, Annual Process Wastewater Analysis, Annual Employee Training Log, Annual NPDES-CAFO Permit Report to EPA Region 6. As needed record keeping and reporting for Precipitation Log, Maintenance Log, Off-site

FEDERAL REGULATIONS	LOCATION IN NMP / COMMENTS
	Manure/Wastewater, Removal Log, Spill Incident Report, Discharge Report. Daily record keeping for water line inspection log.
<p>Legible site map: of the production area (including, at a minimum, the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment area), and the land application area. The map must also include flow direction, an outline of drainage areas to the process wastewater retention or control structures, structural controls, and surface water bodies.</p>	<p>Facility Map(s) Topographic Map Soils Map and Soil Descriptions Contour Map</p>
<p><u>Signature.</u> The NMP shall be signed by the owner/operator or other signatory authority in accordance with Part VI.E (Signatory Requirements) of this permit.</p>	<p>Owner/operator signature is included</p>