

NMP Technical Review
New Mexico General Permit No. NMG010000

Facility Name: Sunset Dairy
17900 South Stern Drive
Mesquite, New Mexico 88048

Permit No.: NMG010019

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.b.

All CAFOs in the counties of Bernalillo, Chavez, Eddy, Sandoval, San Juan and Valencia must develop and implement soil sampling of land application sites once every five (5) years for the metals selenium, copper and zinc. The sampling may be performed concurrently with required phosphorus sampling.

Previously permitted: Yes

Noteworthy enforcement action: No

If no, previous permit no.: NMG010019

Receiving stream: Anthony Wash-Rio Grande – 12-Digit HUC Code 120301020803

Impaired waterbody: No

If so, for what pollutant(s): N/A

EPA approved or established TMDL: No

Antidegradation: No

Stream listed as Tier 2/2.5: No

Stream listed as Tier 3: No

NMP developed by certified specialist: Yes

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

Employee Training: Yes

Additional comments: No

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

Facility Name: Sunset Dairy
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NOI (Form 2B) administratively complete: Yes

NMP included: Yes

NMP administratively complete: Yes

FEDERAL REGULATIONS	LOCATION IN NMP / COMMENTS																								
40 CFR Part 122.42(e)(1)(i): Ensure adequate storage of manure, litter, and process wastewater	<table><tr><td>Storage Structure</td><td>Type of Storage</td><td>Liner Material</td><td>Gallons</td><td># of Days</td></tr><tr><td>Wastewater lagoon</td><td>Wastewater</td><td>HDPE</td><td>3,365,514</td><td>60</td></tr><tr><td>Dairy Runoff Lagoon (enlarged 2016)</td><td>Storm water</td><td>HDPE</td><td>3,440,987</td><td>N/A</td></tr><tr><td>Feedlot Runoff Lagoon</td><td>Storm water</td><td>HDPE</td><td>282,373</td><td>N/A</td></tr></table>					Storage Structure	Type of Storage	Liner Material	Gallons	# of Days	Wastewater lagoon	Wastewater	HDPE	3,365,514	60	Dairy Runoff Lagoon (enlarged 2016)	Storm water	HDPE	3,440,987	N/A	Feedlot Runoff Lagoon	Storm water	HDPE	282,373	N/A
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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. Tonages 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 part of the east side of the dairy to prevent rwi-on into the production area. The entire site is used in the runoff calculations for sizing the runoff ponds.																								
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. All lagoons are fenced.																								
40 CFR Part 122.42(e)(1)(v): Chemical handling.	<p>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.</p> <p>The following procedures are used if a spill occurs:</p> <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. Emergency contacts and procedures are described in the Emergency Action Plan.																								
40 CFR Part 122.42.(e)(1)(vi): conservation practices, including buffers to control runoff	The dairy is located approximately 0.5 miles from the Rio Grande River and is located 20 feet from the drainage ditch. All fields are flood irrigated. Conservation tillage is utilized on all fields. Fields are disked and laser leveled before planting. There is always a crop growing. Crops are currently rotated in a sudan and barley rotation (crops are subject to change).																								
40 CFR Part 412.4(c)(5): Setback requirements for down-gradient surface waters, open tile line	Land Application Setbacks are utilized through berms around all land application fields. Fields are located next to the drainage ditch and Anthony Lateral. The driveway and ditch are a minimum of one foot above the field levels. There is a																								

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intake structure, sinkhole, agricultural well head, or other conduit to surface water: 100 ft setback, 35 ft vegetative buffer, or compliance alternative.	20 feet setback, including the driveway, from the drainage ditch to ensure no water is able to enter the drain. NRCS surveyed the field elevations to the drain and lateral. Attached is a letter from the District Conservationist. There is a berm around the agricultural well head at Field A-E and 35 foot vegetative buffer.
40 CFR Part 122.42(e)(1)(vii): protocols for testing of manure, soil, litter, or process wastewaters.	<p>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.</p> <p>Litter is not used at this facility.</p> <p>Process wastewater samples are taken quarterly. A contracted lab takes a sample from the storage lagoon for testing.</p> <p>Soil samples are taken annually. A soil probe is used to take 15 core samples from 0-12" in various locations on each field and combined to make a composite sample. Sample locations are marked on a map and recorded in the CNMP. Samples are analyzed by a laboratory.</p>
40 CFR Part 412.4(c)(2): NMP must incorporate determination of application rates	<p>The 590 Nutrient management Jobsheets are utilized in this NMP. All fields are N based application. Wastewater is applied all year to growing crops. All wastewater generated by this facility is applied to 90.8 acres of land application fields.</p> <p>Solid manure will be applied to cropland as needed. Solid manure is spread with a manure spreader wagon. The spreader is calibrated before application. Solid manure is also transferred to 3rd party farmers.</p>
40 CFR Part 122.42(e)(1)(viii): protocols for land application.	The Narrative Method is utilized in this NMP. Sunset Dairy uses flood irrigation to water crops.
40 CFR Part 412.4(c)(4): NMP must incorporate inspection of land application for leaks	Sunset Dairy incurs inspections for leaks in this NMP.
40 CFR Part 122.42(e)(1)(ix): record keeping.	Record keeping and reporting requirement included in this NMP.
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>Facility Maps</p> <p>Topographic Map</p> <p>Soil Map and Soil Descriptions</p> <p>Contour Map</p>

FEDERAL REGULATIONS	LOCATION IN NMP / COMMENTS
<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>Signature of the Owner/Operator included in the NMP</p>