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Program Summary

1 Introduction
This Cornell University Concentrated Animal Feeding Operations (CAFO) manual is intended for use by personnel at Cornell University (CU) responsible for: 1) handling, storage and land application of manure and fertilizer nutrients, 2) control of concentrated wastes from barnyards, milkhouses and silage storage, 3) feed management and 4) recordkeeping. This manual is designed to assist University personnel in achieving and maintaining compliance with Federal, State and Local CAFO regulations. Implementation of requirements and recommendations provided in this manual will help to ensure protection of management of water resources.

2 Definitions
For purposes of implementing Concentrated Animal Feeding Operations compliance program the following definitions are applicable.

- 25-Year, 24-Hour Rainfall Event means the maximum 24-hour precipitation event with a probable recurrence interval of once in 25 years, as defined by the National Weather Service in Technical Paper Number 40.
- Agronomic Rates means the land application of animal wastes at rates of application which provide the crop or forage growth with needed nutrients for optimum health and growth.
- Animal Feeding Operation (AFO) means a lot or facility (other than an aquatic animal production facility) where animals have been, are, or will be stabled or confined and fed or maintained for a total of 45 days or more in any 12-month period, and where the animal confinement areas do not sustain crops, vegetation, forage growth, or post-harvest residues in the normal growing season.
- Common Ownership means that two or more Animal Feeding Operations under common ownership are considered one operation if they, (1) adjoin each other, including facilities that are separated by a right-of-way or public road, (2) if they use a common manure and wastewater storage and handling system, or (3) if they use a common land application area. Operations sharing application systems that do not result in mixing of nutrients are not, by virtue of such sharing, under common ownership.
- Comprehensive Nutrient Management Plan (CNMP) means a plan, in accordance with “Natural Resources Conservation Service - Conservation Practice Standard - Waste Management System (Number) Code NY312,” to properly manage liquid and solid waste, including runoff from concentrated areas. Implementation of a CNMP is implementation of Best Available Technology Economically Achievable (BAT).I. Concentrated Animal Feeding Operation (CAFO) means an Animal Feeding Operation (AFO) that is defined as a Large CAFO or as a Medium CAFO, or that is designated by the Department or USEPA Regional Administrator as a CAFO. Two or more AFOs under common ownership are considered to be a single AFO for the purposes of determining
the number of animals of an operation. Large and Medium CAFOs are defined as follows: (see definition animal threshold numbers)

- Certified Agricultural Environmental Management (AEM) Planner means a planner deemed qualified by the Commissioner of Agriculture and Markets, in consultation with the State Soil and Water Conservation Committee and the Natural Resources Conservation Service State Conservationist, to develop and review Comprehensive Nutrient Management Plans (CNMPs) for Concentrated Animal Feeding Operations in New York State. The certified (AEM) planner must be listed in the New York State AEM Planner Directory. This directory is designed to assist farm businesses with the selection of planners. The directory provides for a county-by-county listing showing where the planner is willing to provide services and their associated capacities related to the development of Comprehensive Nutrient Management Plans(CNMPs).
- Permit authorization under the CAFO general permit, means the operator must comply with all the requirements of the general permit GP-99-01(SPDES) and submit a Notice of Intent (NOI).
- Production Area means that part of an AFO that includes the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment areas. The animal confinement area includes but is not limited to open lots, housed lots, feedlots, confinement houses, stall barns, free stall barns, milk rooms, milking centers, cowyards, barnyards, medication pens, walkers, animal walkways, and stables. The manure storage area includes but is not limited to lagoons, runoff ponds, storage sheds, stockpiles, under-house or pit storages, liquid impoundments, static piles, and composting piles. The raw material storage area includes but is not limited to feed silos, silage bunkers, and bedding materials. The waste containment area includes but is not limited to settling basins, and areas within berms and diversions which separate uncontaminated storm water. Any egg-washing or egg-processing facility, and any area used in the storage, handling, treatment, or disposal of mortalities.
- Process Wastewater means any process-generated wastewater in the operation of an Animal Feeding Operation including: Spillage or overflow from animal or poultry watering systems; washing, cleaning, or flushing of pens, barns, or manure pits. Direct contact swimming, washing, or spray-cooling of animals. Leachate from silage and feed storage areas. Wastewater generated in the production of intermediate or final products such as eggs and milk. Precipitation which comes into contact with any area where organic materials are stored, fed or wasted such as silos, bunk silos, organic bedding storage, grain storage, commodity buildings, feed bunks, and manure or wastewater storage or treatment facilities. Process-generated wastewater does not include precipitation that comes into contact with: pastures; cropfields; driveways; roof areas; or laneways where animals do not congregate; cropfields where manure is applied in accordance with “NRCS CPS No. NY590", or vegetated filter areas that are designed and maintained in accordance with “NRCS CPS No. NY312".
3 Roles and Responsibilities

3.1 ECoS
- Communicate regulatory requirements and any changes which will impact CAFO operations.
- Collaborate with facility, AEM Planner for new or modified permits and application submittals.
- Act as Cornell liaison with facility, AEM Planner, regulatory agency and CU Counsel office as needed.
- Review any operational changes for CAFO status or CNMP changes.
- Coordinate with facility managers and AEM Planner to determine if changes to threshold animal quantities alter the status of the CAFO classification.
- Retain copies of the Appendix D, annual compliance report.
- Provide support and guidance during regulatory inspections.

3.2 College/Unit
- Contract with a Certified Agricultural Environmental Management (AEM) Planner to develop a plan for handling manure and wastewater.
- Follow the CNMP for handling manure and wastewater.
- Inform ECoS of any change in operations.
- Appendix D, annual compliance report completion and submittal to DEC.
- Provide a copy of annual report to ECPA.
- Report any discharges, orally within 24 hours, of process wastewater or spill to the waters of the state to the ECPA.
- Collaborate with ECPA to complete a CAFO Incident Report within 5 days of the discharge.

4 Regulatory & Operational Scope
The CAFO Program encompasses numerous Federal and State laws and regulations. The CAFO program areas are administered by the Environmental Compliance and Sustainability Office (ECoS) to ensure Cornell University-wide compliance with these associated regulations.

4.1 Scope of Covered CU Facilities and Operations
All Cornell University facilities and operations in the U.S. are within the scope of the CAFO program. The nature of the facility, its operations, and activities taking place are will determine if specific environmental regulatory requirements are applicable. Therefore specific requirements will vary between facilities and respective operations. Currently the College of Agriculture and Life Sciences Harford Teaching & Research Facility is the only designated CAFO Cornell University facility.

4.2 Applicable Regulations and Aspect Overview
Federal Water Pollution Control Act 33 USC 1251 et seq.
NYS ECL Article 17 Titles 7 & 8, ECL Article 70
6NYCRR Part 750
5 Recordkeeping, Reporting, and Monitoring Summary

<table>
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<tr>
<th>Program Area</th>
<th>Aspects</th>
<th>Recordkeeping, Reporting, or Monitoring Activity</th>
<th>Frequency</th>
<th>Responsibility</th>
<th>Internal or External Deliverable</th>
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<tr>
<td>CAFO (medium)</td>
<td>Total 4/2008: remote research locations=1 facility</td>
<td>SPDES General Permit for CAFO operations</td>
<td>Initial</td>
<td>ECPA and Unit/Facility Manager and AEM Planner file with NYSDEC</td>
<td>External – NYS DEC Albany</td>
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<td>Internal CU</td>
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<td>Retention of Plan</td>
<td>Continuous</td>
<td>Unit/Facility Manager</td>
<td>Internal CU</td>
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<tr>
<td></td>
<td></td>
<td>Recertification of Plan</td>
<td>Every 6 years</td>
<td>ECPA and Unit/Facility Manager and AEM Planner</td>
<td>Internal CU</td>
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<td></td>
<td></td>
<td>Record keeping of generation of manure, litter and process wastewater</td>
<td>Monthly</td>
<td>Unit/Facility Manager</td>
<td>Internal</td>
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<td></td>
<td>Completion and Submission of Appendix D Annual Compliance Report</td>
<td>Yearly</td>
<td>Unit/Facility Manager</td>
<td>External – NYS DEC Albany Internal – CU ECPA</td>
</tr>
<tr>
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<td></td>
<td>Record dates of periodic inspections and maintenance of equipment and systems</td>
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