

## Attachment I – Biosolids and Sludge Management

### I. GENERAL REQUIREMENTS

- A. All biosolids generated by the City of Oxnard (Discharger or City) at its Oxnard Wastewater Treatment Plant (Facility) shall be used or disposed of in compliance with the applicable portions of 40 CFR 257, 258, and 503, and the applicable portions of the California Biosolids General Order (*State Water Resources Control Board Water Quality Order No. 2004-10-DWQ, General Waste Discharge Requirements for the Discharge of Biosolids to Land for Use as a Soil Amendment in Agricultural, Silvicultural, Horticultural, and Land Reclamation Activities*), or site-specific Waste Discharge Requirements, issued by the Regional Water Board(s) for land application sites in the jurisdiction(s) in which biosolids from Facility are applied.
- B. The Discharger is responsible for assuring that all biosolids produced at Facility are used or disposed of in accordance with these rules, whether the permittee uses or disposes of the biosolids itself or transfers them to another party for further treatment, use, or disposal. The Discharger are responsible for informing subsequent preparers, applicers, and disposers of the requirements that they must meet under these rules, and any monitoring requirements, including required frequencies of monitoring and maximum hold times for pathogen and indicator organism samples.
- C. Duty to mitigate: The Discharger shall take all reasonable steps to prevent or minimize any biosolids use or disposal which has a likelihood of adversely affecting human health or the environment.
- D. No biosolids shall be allowed to enter wetlands or other waters of the United States.
- E. Biosolids treatment, storage, and use or disposal shall not contaminate groundwater.
- F. Biosolids treatment, storage, and use or disposal shall be performed in a manner as to minimize nuisances such as objectionable odors or flies.
- G. The Discharger shall assure that haulers transporting biosolids off site for treatment, storage, use, or disposal take all necessary measures to keep the biosolids contained. The Discharger shall maintain and have haulers adhere to a spill clean-up plan. Any spills shall be reported to U.S. Environmental Protection Agency (EPA) and the Regional Water Board or state agency in which the spill occurred. All trucks hauling biosolids shall be thoroughly washed after unloading at the field or at the receiving facility.
- H. Trucks used to haul biosolids shall not be used to haul animal feed or food, except if authorized to do so by the Regional Water Board after consultation with EPA and California Department of Food and Agriculture.
- I. If biosolids are stored for over two years from the time they are generated by the Discharger or their contractor, the permittee must ensure compliance with all the requirements for surface disposal under 40 CFR 503 Subpart C, or must submit a

written notification to EPA with the information in 503.20 (b), demonstrating the need for longer temporary storage.

- J. Any biosolids treatment, disposal, or storage site shall have facilities adequate to divert surface runoff from adjacent areas, to protect the site boundaries from erosion, and to prevent any conditions that would cause drainage from the materials in the site to escape from the site. Adequate protection is defined as protection from at least a 100-year storm and from the highest tidal stage that may occur.

## **II. INSPECTION AND ENTRY:**

The Los Angeles Regional Water Board and EPA, or an authorized representative thereof, upon the presentation of credentials, shall be allowed by the City, directly or through contractual arrangements with their biosolids management contractors, to:

- A. Enter upon all premises where biosolids produced by the Discharger are treated, stored, used, or disposed, either by the Discharger or by another party to whom the Discharger transfer the biosolids for treatment, storage, use, or disposal,
- B. Have access to and copy any records that must be kept under the conditions of this permit or of 40 CFR 503, by the Discharger or by another party to whom the Discharger transfer the biosolids for further treatment, storage, use, or disposal,
- C. Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations used in the biosolids treatment, storage, use, or disposal by the Discharger or by another party to whom the Discharger transfer the biosolids for treatment, use, or disposal.

## **III. MONITORING:**

- A. A representative sample shall be collected and analyzed on a monthly basis for the pollutants required under the applicable portions of 40 CFR 503, organic nitrogen, and ammonium nitrogen. The results shall be reported on a 100% dry weight basis.
- B. Prior to land application, the Discharger shall demonstrate that the biosolids meet Class A or Class B pathogen reduction levels by one of the methods listed in 503.32. If pathogen reduction is demonstrated using a Process to Significantly/Further Reduce Pathogens, the Discharger shall maintain daily records of the operating parameters used to achieve this reduction.
- C. If Class A or B pathogen requirements are met by monitoring pathogens and/or indicator organisms, samples must be collected in sterile containers, immediately placed on ice and analysis started within the EPA-specified holding times for these analyses (24 hours for fecal coliform and salmonella, or 6 hours for fecal coliform in Arizona, 2 weeks for enteric viruses if frozen, one month for helminth ova if cooled to 4 degrees C).
- D. For biosolids that are land applied or placed in a surface disposal site, the Discharger shall track and keep records of the operational parameters used to achieve Vector Attraction Reduction requirements in 503.33(b).

- E. The biosolids shall be sampled and analyzed once per year using the Toxicity Characteristic Leachate Procedure or California Waste Extraction Test.
- F. Biosolids shall be monitored semi-annually for all pollutants listed under Section 307(a) of the CWA. Results shall be expressed in mg pollutant per kg biosolids on a 100% dry weight basis.

## **NOTIFICATION REQUIREMENTS**

- A. The Discharger either directly or through contractual arrangements with their biosolids management contractors, shall comply with the following notification requirements:
  - 1. Notification of non-compliance: The Discharger shall notify EPA Region 9 and the applicable Regional Water Board or State agency of any non-compliance within 24 hours by phone or e-mail if the non-compliance may seriously endanger public health or the environment. A written report shall also be submitted within 5 working days of knowing the non-compliance. For other instances of non-compliance, the Discharger shall notify EPA Region 9 and the Regional Water Board of the non-compliance in writing within 5 working days of becoming aware of the non-compliance. The Discharger shall require their biosolids management contractors to notify EPA Region 9 and the Regional Water Board of any non-compliance within the same time-frames.
  - 2. If biosolids are shipped to another state or to Indian Lands, the Discharger must send 30 days prior notice of the shipment to the EPA and permitting authorities in the receiving State or Indian Land. In case of emergency situations, the Discharger shall notify EPA and permitting authorities in the receiving State or Indian Lands, by phone or e-mail, 48 hours prior to shipment and shall obtain approval from the State or Indian Land authority prior to shipment.
  - 3. If the Discharger receive complaints of health problems associated with biosolids treatment, use, or disposal directly, or become aware of complaints reported to their biosolids management contractors, the EPA and applicable County Health Department staff shall be notified of the complaints within 48 hours of such knowledge. The Discharger shall also require that their biosolids management contractors report any complaints of health problems associated with biosolids treatment, use, or disposal, to the EPA and applicable County Health Department staff within 48 hours of such knowledge.
- B. The Discharger shall require their biosolids management contractors that apply Class B biosolids to notify EPA Region 9 and the applicable Regional Water Board or State Agency by e-mail, at least 24 hours prior to changing application fields, of the new field to which they will be moving. If circumstances arise in which the contractors need to select an alternate field, the Discharger shall require their biosolids management contractors to notify EPA and the applicable Regional Water Board or State Agency within 72 hours after changing fields.

- C. Following completion of application to any field, in the case where actual calculated Plant Available Nitrogen (PAN) exceeds the agronomic rate, the Discharger shall, within 7 days of knowledge of the occurrence, have its contractor submit an explanation of the exceedance.
- D. The Discharger shall notify EPA and the Regional Water Board at least 60 days prior to starting a new use or disposal practice.

**V. REPORTING REQUIREMENTS:**

- A. The Discharger shall submit, and require its contractor(s) to submit an annual biosolids report to the EPA Region 9 Biosolids Coordinator, Los Angeles Regional Water Quality Control Board, Central Valley Regional Water Quality Control Board (Fresno Office), and all other Regional Water Boards/State Agencies where biosolids are applied by February 19 of each year for the period covering the previous calendar year. The report shall include:
  - 1. The amount of biosolids generated that year, in dry metric tons, and the amount used or disposed by each use/disposal practices. For contracted use or disposal, the volume taken by each contractor shall be reported.
  - 2. Results of all monitoring required under Monitoring Requirements above. All results must be reported on a 100% dry weight basis. Locations of sample collection shall be reported.
  - 3. Documentation of those operational parameters used to demonstrate compliance with pathogen reduction and vector attraction reduction, and certifications.
  - 4. For land application sites:
    - a. Name of each field; location, ownership, size in acres
    - b. Actual dates of applications, seedings, harvesting
    - c. Number of truckloads to each field
    - d. Actual tonnage applied to field, in actual and dry weight
    - e. Calculated Plant Available Nitrogen before and after application, including methodology used to calculate plant available nitrogen and agronomic rate
    - f. Copies of applicator's certifications of management practices
    - g. Copies of applicator's certifications of site restrictions

B. Reports shall be submitted to:

Los Angeles Regional Water Quality Control Board  
320 West 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013

Central Valley Regional Water Quality Control Board, Fresno Office  
1685 E Street  
Fresno, CA 93706

Regional Biosolids Coordinator  
US EPA (WTR-7)  
75 Hawthorne St.  
San Francisco, CA 94105-3901