

California Regional Water Quality Control Board  
North Coast Region

Monitoring And Reporting Program No. R1-2005-0075

For

The California Department Of Corrections  
Pelican Bay State Prison

Del Norte County

### **INTRODUCTION**

This Monitoring and Reporting Program (MRP) is issued pursuant to Section 13267(b) of the California Water Code (CWC) and requires monitoring of visual, chemical, and physical parameters and submission of technical reports to allow North Coast Region Water Quality Control Board (Regional Water Board) staff to determine compliance with permit and basin plan standards.

### **SLUDGE SUPERNATANT MONITORING**

The volume of sludge supernatant used for irrigation shall be recorded daily. Sludge supernatant samples shall be collected twice daily at any point in the irrigation system following removal from the facultative sludge pond. One half of the daily sample volume shall be collected as soon as possible after the first irrigation flow reaches the field. The remaining half of the sample shall be collected immediately prior to discontinuing irrigation flow for that day. Both samples shall be analyzed for dissolved oxygen immediately following sampling, and the two daily samples shall be combined for BOD and nitrate nitrogen analyses. Samples shall be analyzed for the following:

<u>Constituent</u>	<u>Units</u>	<u>Sample Type</u>	<u>Frequency</u>
dissolved oxygen	mg/l	grab	twice daily
total coliform organisms	MPN/100 ml	grab	daily
BOD (20°C, 5-day)	mg/l	composite	daily
nitrate nitrogen	mg/l	composite	weekly

### **ANALYTICAL METHODS**

Unless otherwise stated, suitable analytical methods are those specified in 40CFR136, in the 17<sup>th</sup> or later editions of Standard Methods for the Examination of Water and Wastewater, or in 40CFR503 sludge regulations. Any other protocols must be approved by the California Regional Water Quality Control Board, North Coast Region, (Regional Water Board) prior to use. All analytical data must be uncensored with the method detection limits identified. Only data from certified laboratories will be accepted.

## **OBSERVATIONS**

Precipitation shall be measured and reported daily. National Oceanic and Atmospheric Administration (NOAA) forecast of probabilities of measurable precipitation at Crescent City shall be recorded on each day of irrigation for the day of irrigation and the following night and day. The detention basin receiving runoff from the irrigation area shall be inspected daily for the presence of liquid water prior to commencing irrigation. During irrigation, the detention basin entrance channel from the irrigated area drainage trench shall be inspected at intervals not exceeding one hour by pressing a friction match head into the soil. The channel shall be evaluated as "moist" if the match cannot be ignited by friction immediately after being withdrawn from the soil.

## **PHOTOGRAPHS**

Photographic stations shall be established:

- A - At each point where sludge supernatant is discharged from irrigation piping to the sludge disposal field.
- B - In each runoff channel from the sludge disposal fields at the point that channel enters the riparian vegetation around the detention basin.
- C - At the entrance of the culvert conveying overflow from the detention basin under Lake Earl Drive.

Daily photographs shall be taken at mid-day during sludge irrigation.

Two photographs shall be taken at location A. One shall include the sludge supernatant being discharged from the pipe at a distance of approximately one meter from the camera. The second shall include the supernatant discharge in the foreground and the corresponding detention basin in the background.

Two photographs shall be taken at location B. One shall look directly down into the bottom of the runoff channel from a height of approximately one meter. The second shall include the runoff channel in the foreground and the area of irrigation discharge in the background.

Two photographs shall be taken from location C. One shall look directly down at the culvert entrance from a height of approximately one meter above the top of the culvert. The second shall include the culvert entrance in the foreground and the detention pond in the background.

Daily photographs shall be taken at mid-day during or immediately following precipitation events. The first daily photographs shall be taken during or after the first measurable precipitation event following irrigation with sludge supernatant. Thereafter, photographs shall be taken during or following each daily precipitation total greater than any previously photographed.

Two photographs shall be taken at location B. One shall look directly down into the bottom of the runoff channel from a height of approximately one meter. The second shall include the runoff channel in the foreground and the area of irrigation discharge in the background.

Two photographs shall be taken from location C. One shall look directly down at the culvert entrance from a height of approximately one meter above the top of the culvert. The second shall include the culvert entrance in the foreground and the detention pond in the background.

### **REPORTING**

Observations shall be recorded on a form similar to the attached example. Monitoring reports shall be submitted to the Regional Water Board for each month on or before the last day of the following month. Monitoring reports shall be mailed to:

North Coast Regional Water Quality Control Board  
5550 Skylane Boulevard, Suite A  
Santa Rosa, CA 95403

Failure to comply with the terms of this Order can result in civil liabilities of up to \$5,000 per day under CWC Section 13268(a)(b)&(d)(1), or misdemeanor prosecution under CWC Section 13268(c)&(d)(2).

Any person affected by this action of the Regional Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with Section 13320 of the CWC and Title 23, California Code of Regulations, Section 2050. The petition must be received by the State Water Board within 30 days of the date of this Order. Copies of the law and regulations applicable to filing petitions will be provided upon request. In addition to filing a petition with the State Water Board, any person affected by this Order may request the Regional Water Board to reconsider this Order. To be timely, such request must be made within 30 days of the date of this Order. Note that even if reconsideration by the Regional Water Board is sought, filing a petition with the State Water Board within the 30-day period is necessary to preserve the petitioner's legal rights. If you choose to appeal this Order, be advised that you must comply with this Order while your appeal is being considered.

Ordered by \_\_\_\_\_

Catherine E. Kuhlman  
Executive Officer