California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. 94-71
(Revised December 30, 2004)

FOR THE

CALIFORNIA DEPARTMENT OF CORRECTIONS
PELICAN BAY STATE PRISON

Del Norte County

SEWAGE TREATMENT PLANT MONITORING

The sampling devices currently in use at the Pelican Bay State Prison Sewage Treatment Plant are satisfactory for the composite samples required by this monitoring program. If composite sampling devices are not used, composite grab samples may be substituted. The sampling interval for composite grab samples shall be no more than 1 hour.

Effluent Monitoring

Effluent samples shall be collected at any point following the chlorine contact chamber and before discharge to the rapid infiltration basins. Samples shall be analyzed for the following:

Constituent	Units	Sample Type	Frequency
hydrogen ion	pH	grab	daily
total coliform	MPN/100 mL	grab	weekly
chlorine residual	mg/L	continuous	daily maximum
turbidity	NTU	continuous	daily maximum
flow	MGD	continuous	daily total
BOD (20ºC, 5-day)	mg/L	24-hour composite	weekly
suspended solids	mg/L	24-hour composite	weekly
settleable matter	mL/L	grab	weekly
nitrate nitrogen	mg/L	24-hour composite	weekly
total phosphorus	mg/L	24-hour composite	weekly
grease & oil	mg/L	grab	quarterly
EPA method 601	ug/L	grab	annually

Constituent	Units	Sample Type	Frequency
arsenic	ug/L	24-hour composite	annually
cadmium	ug/L	24-hour composite	annually
chloride	mg/L	24-hour composite	annually
hexavalent chromium	ug/L	24-hour composite	annually
copper	ug/L	24-hour composite	annually
cyanide	ug/L	24-hour composite	annually
lead	ug/L	24-hour composite	annually
mercury	ug/L	24-hour composite	annually
nickel	ug/L	24-hour composite	annually
silver	ug/L	24-hour composite	annually
zinc	ug/L	24-hour composite	annually

Groundwater Monitoring

Grab samples shall be collected quarterly from the established network of monitoring wells which are representative of the upgradient and downgradient conditions of the sludge disposal area (SDA) and rapid infiltration basins (RIB). Groundwater levels shall be recorded in each well prior to purging and sampling. Groundwater levels in each well and the stage height of the Smith River at the time of sampling shall be referenced to a common datum. Groundwater samples shall be analyzed for the following:

Constituent	Units	Locations
nitrate nitrogen	mg/L	both RIB and SDA samples
chloride	mg/L	both RIB and SDA samples
phosphate (reactive)	mg/L	SDA samples only
total dissolved solids	mg/L	SDA samples only

Solids Disposal

A representative sample of treated sludge shall be analyzed annually by USEPA method 6010 (ICAP scan) and the results reported on a dry weight basis. The discharger shall include analytical results and the following information as part of the December report:

a. Analysis of soil pH prior to sludge disposal,
b. the quantity of sludge applied as gallons and as dry tons,
c. sludge nitrogen analysis,
d. nitrogen application rate as pounds per acre, and
e. a map of specific locations of sludge application that year.

Analytical Methods

Unless otherwise stated, suitable analytical methods are those specified in 40CFR136, in the 17th 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.

Reporting

Monitoring reports shall be submitted to the Regional Water Board for each month on or before the last day of the following month.

Ordered By _____

Catherine E. Kuhlman
Executive Officer

December 30, 2004

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