

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. R5-2008-XXXX

FOR
SILVERTHORN RESORT ASSOCIATES LIMITED PARTNERSHIP
AND
U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE
FOR OPERATION OF SILVERTHORN MARINA/RESORT
SHASTA COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for sewage collection system, septic tank and holding tank, septic tank effluent, leachfield, groundwater and surface water monitoring, and standard observations. The Discharger shall submit **monitoring reports** to the Regional Water Board office **by the end of the month following the reporting period in which samples were collected and/or observations made (for example, the October report is due by 30 November).**

REPORTING

The Discharger shall arrange monitoring data in tabular form so that the date, sample type, and analytical result for each sample area are readily discernible. The data shall be summarized in such a manner to illustrate clearly compliance with waste discharge requirements. The results of any monitoring done more frequently than required at the locations specified in the MRP shall be reported to the Regional Water Board.

Table 1. Monitoring reporting schedule

Monitoring Type	Performance Schedule	Reporting Schedule
Sewage Collection System	Quarterly	Month performed
Septic Tank and Holding Tank	Annually	Month performed
Septic Tank Effluent	Semi-annually	Month performed
Leachfield (visual)	Monthly	Monthly
Groundwater	Quarterly	Month performed
Surface Water	Monthly (May - September)	Monthly (June - October)
Standard Observations	Monthly	Month performed

SEWAGE COLLECTION SYSTEM MONITORING

The Discharger shall inject an approved tracer dye, on a quarterly basis, into the sewage collection system on the marina to test for leaks and report whether dye was observed. If dye is observed, the release shall be reported to the Regional Water Board within 24 hours, and corrective action measures shall be implemented immediately.

SEPTIC TANK AND HOLDING TANK MONITORING

Septic tank maintenance inspections shall be performed at least annually. Information concerning inspections and maintenance activities (including, but not limited to, pumping, replacement, and repairs) shall be reported in the corresponding monthly monitoring report.

The contents from the holding tank, marina septic tank, and residential septic tank shall be periodically removed. The last date of service of each septic tank and holding tank and the quantity of sewage removed shall also be reported.

In addition, the Discharger shall record the quantity of sewage pumped from the marina to the holding tank and from the holding tank to the leachfield on a daily basis and report the results monthly.

SEPTIC TANK EFFLUENT

A grab sample of the septic tank effluent shall be collected prior to discharging to the marina leachfield and analyzed for at least the following:

Table 2. Summary of septic tank effluent monitoring

PARAMETER	UNITS	FREQUENCY
Kjeldahl-Nitrogen (TKN)	mg/L	Semiannual
Nitrate-Nitrogen	mg/L	Semiannual
Fecal Coliform	MPN/100 mL	Semiannual
Formaldehyde	µg/L	Semiannual
Biological Oxygen Demand	mg/L	Semiannual
Total Suspended Solids	mg/L	Semiannual

*Semiannual samples shall be collected in March and August each year

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LEACHFIELD MONITORING

The Discharger shall inspect the leachfields and report the presence or absence of saturated soils or standing liquid each month.

GROUNDWATER MONITORING

The Discharger has installed a piezometer in the leachfield area and is required to install a groundwater monitoring network, which consists of at least two downgradient, and one background monitoring location. The groundwater wells and piezometer shall be sampled in accordance with the following:

Table 3. Summary of groundwater monitoring

PARAMETER	UNITS	FREQUENCY
<u>Field Parameters</u>		
Groundwater Elevation	FT., & hundredths, MSL	Quarterly
Temperature	°C & °F	Quarterly
Turbidity	NTUs	Quarterly
Specific Conductance	µmhos/cm	Quarterly
pH	pH units	Quarterly
Dissolved Oxygen	mg/L	Quarterly
<u>Monitoring Parameters</u>		
Nitrate-Nitrogen	mg/L	Quarterly
Kjeldahl Nitrogen	mg/L	Quarterly
Total Coliform	MPN/100 mL	Quarterly
Fecal Coliform	MPN/100 mL	Quarterly
Formaldehyde	µg/L	Quarterly
Total Organic Carbon	mg/L	Quarterly
Total Dissolved Solids	mg/L	Quarterly

SURFACE WATER MONITORING

Surface water samples shall be collected around the marina each month from May through September, in the general areas depicted in Attachment B, and analyzed for total and fecal coliform (Standard Method 9221 or 9222). Samples shall be collected, even if the dock

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configuration changes. If any fecal coliform analysis exceeds 400/100 mL or if the geometric mean of fecal coliform analyses taken within any 30 day period exceed 200/100 mL, the Discharger shall immediately report the results, dye test the sewage collection system, and re-analyze all receiving water stations. Sampling shall continue daily until compliance is achieved.

STANDARD OBSERVATIONS

The moorage area shall be visually inspected, at least monthly, to determine if boats are discharging gray water while moored at the facility. If gray water discharges are occurring, the vessel identification number and moorage area shall be noted and reported to the Regional Water Board. Visual observation and inspection notes shall be included in the monthly monitoring report. A log shall be kept of the water conditions with attention given to the presence or absence of:

- Floating or suspended matter
- Oil sheen or slick
- Discoloration
- Scum or foam
- Aquatic life

The Discharger shall comply with the MRP until revised by the Regional Water Board Executive Officer. The Discharger shall implement the above monitoring program as of the date of this Order.

Ordered by: _____
PAMELA C. CREEDON, Executive Officer

(Date)

KB/KLC: sae
05/21/2008