California Regional Water Quality Control Board
North Coast Region
Geoffrey M. Hales, Chairman

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Linda S. Adams
Secretary for Environmental Protection

Arnold Schwarzenegger
Governor

RECEIVED
JAN 26 2010
PERMIT AND RESOURCE MANAGEMENT DEPARTMENT
COUNTY OF SONOMA

January 25, 2010

Mr. Peter Heinemann
Passport Resorts, LLC
921 Front Street
San Francisco, CA 94111

Dear Mr. Heinemann:

Subject: Transmittal of Waste Discharge Requirements Order No. R1-2010-0002 for the Sea Ranch Lodge

File: Sea Ranch Lodge WWTF WDID No. 1B06006RSON

On January 21, 2010, the Regional Water Board adopted Waste Discharge Requirements Order No. R1-2010-0002 for the Sea Ranch Lodge, as proposed. Enclosed is a copy of the Order for your records.

If you have any questions or need assistance meeting Regional Water Board requirements, please contact Charles Reed of my staff at (707) 576-2752 or creed@waterboards.ca.gov.

Sincerely,

Catherine Kuhlman

Catherine Kuhlman
Executive Officer

Return Receipt Requested

Enclosure: Adopted Permit

cc: David Hardy, Sonoma County PRMD, 2550 Ventura Ave., Santa Rosa, CA 95403-2829
Bob Herr, Sonoma County PRMD, 2550 Ventura Ave., Santa Rosa, CA 95403-2829

California Regional Water Quality Control Board
North Coast Region

Order No. R1-2010-0002
ID No. 1B06006RSON

WASTE DISCHARGE REQUIREMENTS

FOR

SEA RANCH LODGE
WASTEWATER TREATMENT AND DISPOSAL FACILITY

Sonoma County

The California Regional Water Quality Control Board, North Coast Region (hereinafter Regional Water Board), finds that:

1. The Sea Ranch Inn, LLC (hereinafter Discharger) submitted a Report of Waste Discharge on January 23, 2006. An updated Report of Waste Discharge (ROWD) was submitted on August 22, 2008. Supplemental application information was provided on October 27, 2008 to complete the ROWD.

2. The Sea Ranch Lodge (hereinafter Facility) is located at 60 Sea Walk Drive at the south end of the community of Sea Ranch on the Sonoma Coast. The Facility is located on approximately 52 acres at 36° 59.146' N latitude, and 122° 02.004' W longitude, as shown in "Attachment A" to this Order, which is attached hereto and made part of this Order by reference.

3. The Discharger operates a restaurant, bar, retail store, and a 20-room hostelry at the Facility. Commercial activities at the Sea Ranch Lodge generate an average daily wastewater of approximately 2,572 gallons per day (gpd). A peak wastewater flow of approximately 6,500 gpd occurs during the summer. Wastewater from the restaurant, bar, and store is currently discharged to a 10,000-gallon grease separator/septic tank and then to a pressure-dosed leachfield approximately 200 feet east of a bluff overlooking the Pacific Ocean. Wastewater from the hostelry is discharged to 3,000-gallon septic tank and then to a 1,000 square foot leachfield located approximately 400 feet east of the bluff. The discharges described above were previously regulated solely by the County of Sonoma in conformance with provisions of the Policy on the Control of Water Quality with Respect to On-site Waste Treatment and Disposal Systems contained in the Water Quality Control Plan for the North Coast Region (Basin Plan).

4. The Discharger is proposing to redevelop the site and expand the hostelry. According to the ROWD, the Discharger will replace the 20 existing guest rooms with 60 new guest rooms situated in clusters of small units on the property and expand the main building to include a restaurant, kitchen, bar, meeting spaces, and spa and pool facilities. The existing Post Office Building will be expanded to include the community Post Office, a gift shop and other retail operations, staff offices with an employee lounge and lockers, and a small central laundry facility.

5. The Facility expansion is expected to increase average wastewater production to 9,594 gpd, with a peak daily wastewater flow of 15,990 gpd. The projected peak wastewater flow is based on anticipated water usage rates at full occupancy and published unit flows as presented in the following table:

Use	Unit	Occupancy	Flow [1] (gpd/unit)	Daily Flow (gallon)
60 Guest Units (sinks, toilets, showers)	guests	150	50	7,500
Spa Rooms (sinks, toilets)	treatments	60	5	300
Restaurant	meals	450	5	2,250
Bar	meals	360	3	1,080
Conference Rooms (sinks, toilets)	occupancy	360	3	1,080
Fitness Room (sinks, toilets)	visitors	60	5	300
Pool	visitors	90	10	900
Laundry	loads	60	40	2,400
Retail and Post Office (sinks, toilets)	visitors	36	5	180
Total Water				**15,990**

[1] Crites, R. and G. Tchobanoglous. Small and Decentralized Wastewater Management Systems. WCB McGraw-Hill, 1998.

The increased wastewater production will require an upgrade and expansion of the existing wastewater collection, treatment and disposal facilities. This Order authorizes the discharges from the facilities described in the ROWD. A map of the Facility reflecting the final project design is included as "Attachment B" to this Order.

Wastewater Treatment and Disposal System

6. For the purposes of this Order, the term "wastewater treatment facility" (WWTF) shall mean the sewage collection and conveyance systems, the grease interceptor/septic tank, the wastewater treatment system, recirculation tanks, wastewater pump stations, and the effluent disposal systems.

7. The Discharger proposes to treat up to 15,990 gpd of wastewater, with a daily average of 9,594 gpd, from the Facility to produce an effluent having less than 10 mg/l biochemical oxygen demand (BOD), less than 10 mg/l total suspended solids, and less than 10 mg/l total nitrogen. The WWTF will consist of a two-stage trickling filter package plant for initial aerobic treatment of wastewater from the guest units, restaurant, laundry, and meeting rooms, spa and pool facilities, fitness room, and post office building. Trickling filter effluent is clarified, filtered through a 120 micron filter, disinfected using ultraviolet light, and discharged to a lined, vegetated treatment system (FloraFilter) that employs submerged and emergent plants to further treat the clarified effluent. Effluent from the FloraFilter is routed to a recirculation tank where it is recycled through the trickling filter. A portion of the contents of the recirculation tank is discharged to the effluent disposal system. All underground tanks will be constructed of concrete or fiberglass and tested for water tightness.

8. The effluent disposal system consists of a pressure distributed leachfield system for use during the wet season (November to March) and a subsurface drip irrigation system for use during the remainder of the year. Treated wastewater is

discharged to the pressure distributed leachfield at a soil application rate of 1.0 gallons per square foot per day. The soil application rate is based on the percolation rate of 2.0 minutes per inch measured in the vicinity of the proposed leachfield and is consistent with design criteria set forth by the County of Sonoma and the Regional Water Board. The total trench depth for the pressure distributed dispersal system is four feet. The subsurface drip irrigation system will be installed six to twelve inches below the ground surface and will be used disperse treated wastewater for landscape irrigation around the new buildings. The soil application rate for the subsurface drip system is 0.8 gallons per square foot per day, based on soil conditions at the site.

Site Specific Conditions

9. PRECIPITATION. The average annual precipitation for the Sea Ranch area is approximately 36.75 inches, based on data collected from the Western Regional Climatic Center from 1948 to 2005. The maximum annual rainfall observed over this period was 71.27 inches.

10. EVAPOTRANSPIRATION. The average ET rate is approximately 31.35 inches per year, with 24.9 inches occurring from April through October. (Source: *Reference Evapo-transpiration (Eto) Maps for California*)

11. WATERSHED. The Facility lies within the Gualala Hydrologic Subarea No. 113.85, as depicted on interagency hydrologic maps prepared by the Department of Water Resources in August 1986.

12. SURFACE WATER QUALITY. The site contains numerous seeps and springs that give rise to surface water that flows over the Oceanside bluffs. Seep and spring water replenish onsite wetlands and support coastal vegetation and wildlife. Surface water samples collected during the 2004-2005 wet season from a seep near the top of the bluff directly oceanward of the Lodge restaurant and from selected spring-fed pools on the site indicated the presence of total and fecal coliform bacteria, which are microorganisms that can function as indicators of fecal contamination. Monitoring data suggest that elevated coliform concentrations are a result of contamination by wildlife, although contamination by existing onsite domestic waste disposal cannot be ruled out because nitrate and chloride concentrations were detected above background levels in sampling locations that were positioned to be influenced by the existing hostelry leachfield and the existing restaurant leachfield. The proposed expanded onsite waste disposal system includes a higher level of treatment than the existing onsite system and increases the setback to bluff from the existing 200-400 feet to approximately 1,300 feet. These improvements are anticipated to better protect surface water quality at the site.

13. SOIL & GEOLOGY. According to information presented in the ROWD, the soils and geology encountered underlying the project location consisted of 2-3 feet of sandy loam soil overlying five or more feet of fine to medium unconsolidated sand. Sandstone bedrock underlies the upper soil stratum at approximately 20 feet below grade.

14. GROUNDWATER. According to the ROWD, the primary source of on-site groundwater is spring-fed local recharge. The anticipated highest groundwater level in the area of the proposed pressure distributed leachfield is 9.25 to 11.75 feet below ground surface, based on groundwater monitoring data collected in April and May 2005. A groundwater mounding analysis predicted that discharging at the average wastewater discharge rate would reduce the depth to groundwater by about two feet. Groundwater depths in the vicinity of the proposed subsurface drip irrigation system were determined to be 3.5 to 6.26 feet below the ground surface. The effect of groundwater mounding was not evaluated for the discharge from the subsurface drip system because it is assumed that because the drip irrigation lines are to be installed six to twelve inches below the ground surface and the discharge to this system will be limited to late spring through summer, a significant portion of the dry season wastewater flow will be reduced through evapotranspiration.

15. SEISMICITY. The project area is in a seismically active region. The closest known active fault is the San Andreas Fault, located less than one mile to the northeast of the project site. However, according to an evaluation of the project site by Cleary Consultants, Inc., Geotechnical Engineers and Geologists, the treatment and disposal systems for this project are located on geologically and seismically stable formations and concluded that the proposed project, itself, including the additional volume of water discharge on site, will not impact the geologic stability of the site.

16. SENSITIVE SPECIES & HABITATS. The California Coastal Commission has delineated 3.08 acres of jurisdiction wetland within the project site boundary. The largest wetland area, approximately 1.05 acres, is located in a shallow swale that bisects the central portion of the site, running from east to west. A second wetland area of approximately 0.85 acres is present southwest of the existing Lodge. A 100-foot buffer area around the delineated wetlands has been provided to prevent impacts from the project on these sensitive habitats. There are no known sensitive animal or plant species within the project site.

17. SOURCE WATER QUALITY. Domestic water is supplied to the Facility by the Sea Ranch Water Company and is a combination of well water and surface water from the Gualala River. No groundwater in the vicinity of the Facility is used for domestic or municipal supply. Source water quality determinations for pertinent constituents are presented in the following table.

Constituent	MCL	2004	2005	2006	2007	2008
Sodium (mg/l)	none	13	na	na	14	13
Hardness (mg/l as $CaCo_3$)	none	na	na	110	na	100
Nitrate (mg/l as NO_3)	45	5.8	6.3	6.1	6.1	6.1
Sulfate (mg/l)	500	10	na	na	11	10

na = not available
source = The Sea Ranch Water Company

Basin Plan, Beneficial Uses and Regulatory Considerations

18. The Water Quality Control Plan for the North Coast Region (Basin Plan) contains implementation plans and policies for protecting waters of the basin, and incorporates by reference plans and policies adopted by the State Water Resources Control Board. Pursuant to section 13263(a) of the California Water

Code (Water Code), waste discharge requirements must implement the Basin Plan.

19. The receiving water for the discharge from the Facility is groundwater. The existing and potential beneficial uses of groundwaters include:

    a. domestic water supply (MUN)
    b. agricultural supply (AGR)
    c. industrial service supply (IND)
    d. industrial process supply (PRO)
    e. aquaculture (AQUA)
    f. native American culture (CUL)

20. The Basin Plan contains narrative water quality objectives for groundwater for tastes and odors, bacteria, radioactivity and chemical constituents. The tastes and odors objective requires that groundwater shall not contain taste- or odor-producing substances in concentrations that cause nuisance or adversely affect beneficial uses. The bacteria objective requires that the median of the most probable number (MPN) of coliform organisms over any 7-day period be less than 1.1 MPN per 100 milliliters, less than 1 colony per 100 milliliters, or absent. The radioactivity and chemical constituent objectives require that groundwater not contain concentrations of radionuclides and chemical constituents in excess of the limits specified in title 22, division 4, chapter 15, article 4 and 5 of the California Code of Regulations. Numerical objectives for certain chemical constituents are summarized in Table 3-2 of the Basin Plan.

21. As required by Water Code section 13263, these waste discharge requirements are crafted to implement the Basin Plan, and in so doing, the Regional Water Board has taken into consideration the beneficial uses to be protected, the water quality objectives reasonably required for that purpose, other (including previous) waste discharges, the need to prevent nuisance, and the provisions of Water Code section 13241.

    The discharge authorized herein and the treatment and storage facilities associated with the discharge are exempt from the requirements of title 27, California Code of Regulations, section 20005 et seq. The exemption, pursuant to section 20090(b) of title 27, allows for the exemption of discharges of wastewater if 1) the applicable Regional Board has issued WDRs, the discharge is in compliance with the applicable water quality control plan and 3) the wastewater does not need to be managed as a hazardous waste. The discharge meets all of these requirements. In addition, the design of the WWTP provides treatment and control of the discharge that incorporates concrete treatment and storage structures and will include the installation of liners in the FloraFilter to prevent percolation of waste constituents to underlying groundwater.

22. Water Code section 13267 allows the regional board to require discharger to furnish, under penalty of perjury, technical or monitoring program reports. The attached Monitoring and Reporting Program is issued pursuant to Water Code section 13267, and is necessary to assure compliance with these waste discharge requirements. The burden, including costs, of these reports bears a reasonable

relationship to the need for the report and the benefits to be obtained from the reports.

23. A mitigated negative declaration (Attachment "C" to this Order) was prepared and certified by the Sonoma County Planning Department on July 23, 2009, to satisfy the requirements of the California Environmental Quality Act (Pub. Resources Code section 21000 et. seq.). The negative declaration evaluated the impacts of the discharge of treated wastewater to surface water and groundwater quality. No mitigation measures related to the wastewater treatment and disposal system were required for this project. Acting as a responsible agency, the Regional Water Board has considered the negative declaration as required under title 14, California Code of Regulations, section 15096.

    The Regional Water Board will file a notice of determination in accordance with title 14, California Code of Regulations, section 15096(i) within five days from the issuance of this Order.

24. The permitted discharge is consistent with the provisions of State Water Resources Control Board Resolution No. 68-16, Statement of Policy with Respect to Maintaining High Quality of Waters in California. This Order provides for a discharge that contains a volume and mass of pollutants (BOD, total suspended solids, coliform bacteria and total nitrogen) that may ultimately enter groundwater underlying the site. Compliance with this Order will therefore allow some degradation of groundwater quality, but will ensure that the discharge will not cause a violation of water quality objectives. The Order is consistent with the maximum benefit to people of the State because the discharge: (i) allows the retirement of an existing substandard individual wastewater treatment system and (ii) accommodates commercial activities designated for the Sea Ranch area in the Sonoma County General Plan. Compliance with these requirements mandates the use of tertiary level treatment technology for BOD and total suspended solids and ultraviolet disinfection for the reduction of wastewater pathogens, which constitute best practicable treatment or control of the discharge.

25. The attached Monitoring and Reporting Program and Attachment A and B are part of this Order. The Executive Officer of the Regional Water Board is delegated the authority to modify the Monitoring and Reporting Program, as determined appropriate to protect water quality.

Public Notification Requirements

26. The Regional Water Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations.

27. The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge.

THEREFORE, IT IS HEREBY ORDERED that the Discharger, in order to meet the provisions contained in Division 7 of the Water Code and regulations adopted thereunder, shall comply with the following:

A. DISCHARGE PROHIBITIONS

1. The discharge of any waste not specifically regulated by this Order is prohibited.

2. Creation of a pollution, contamination, or nuisance, as defined by Water Code section 13050, is prohibited.

3. The discharge of waste to land that is not under the control of the discharger is prohibited, except as authorized under Section E of this Order.

4. The discharge of untreated waste from anywhere within the collection, treatment, or disposal facility is prohibited.

5. The discharge of waste to surface waters, including wetlands, the Pacific Ocean or its tributaries is prohibited.

B. EFFLUENT LIMITATIONS

1. Representative samples of the wastewater discharged to the pressure distributed leachfield and the subsurface drip irrigation system shall not contain constituents in excess of the following limits

Constituent	Units	Monthly Average[1]	Daily Maximum[2]
Biochemical Oxygen Demand	mg/L	10	20
Total Suspended Solids	mg/L	10	20
Total Coliform Organisms	MPN/ 100 mL	23[3]	240
Total Nitrogen[4]	mg/L	---	10

[1] The arithmetic mean of all samples collected in a calendar month, calculated as the sum of all samples in a calendar month divided by the number of samples. If only one sample is collected in a calendar month, that sample result will constitute the monthly average and daily maximum results for the purpose of determining compliance with effluent limitations.

[2] The maximum sample of all samples collected in a calendar day.

[3] Median.

[4] Total Nitrogen is the sum of ammonia-nitrogen, nitrate-nitrogen, nitrite-nitrogen, and organic nitrogen.

C. DISCHARGE SPECIFICATIONS

1. Disposal of effluent shall be confined to the effluent disposal areas as defined in this Order.

2. No waste constituent shall be released or discharged, or placed where it will be released or discharged, in a concentration or in a mass that causes violation of the Basin Plan's water quality objectives for groundwaters.

3. Objectionable odor originating at the facility shall not be perceivable beyond the limits of the wastewater treatment and disposal areas.

4. Public contact with wastewater shall be precluded or controlled through such means as fences and signs, or other acceptable alternatives.

5. The Discharger shall operate all systems and equipment to maximize treatment of wastewater and optimize the quality of the discharge.

6. The WWTF shall have sufficient treatment, storage, and disposal capacity to accommodate allowable wastewater flow, design seasonal precipitation, and ancillary infiltration and inflow during the winter months.

7. The WWTF and effluent disposal areas shall be managed to prevent the breeding of mosquitoes.

D. GROUNDWATER LIMITATIONS

1. The collection, treatment, storage and disposal of the treated wastewater shall not cause or contribute to alterations of groundwaters that result in taste or odor-producing substances in concentrations that cause nuisance or adversely affect beneficial uses.

2. The collection, treatment, storage and disposal of the treated wastewater shall not cause or contribute to levels of chemical constituents in groundwater that exceed the levels specified in Title 22, Division 4, Chapter 15, Article 4, section 64435 of the California Code of Regulations or listed in Table 3-2 of the Basin Plan.

3. The collection, treatment, storage and disposal of the treated wastewater shall not cause or contribute to levels of radionuclides in groundwater in excess of the limits specified in Title 22, Division 4, Chapter 15, Article 5, section 64443 of the California Code of Regulations.

4. In groundwater used for domestic and municipal supply (MUN), the collection, treatment, storage and disposal of the treated wastewater shall not cause the median concentration of coliform organisms over any 7-day period to exceed

1.1 MPN per 100 milliliters or 1 colony per 100 milliliters. Compliance with this limitation shall be determined by comparing the concentration of coliform organisms present in groundwater well upgradient and downgradient of the collection, treatment, storage and disposal facilities.

E. GENERAL SOLIDS DISPOSAL SPECIFICATIONS

1. Sludge and solid waste shall be removed from filters, screens, sumps, and septic tanks as needed to ensure optimal plant operation.

2. Collected screenings, septage and other solid waste removed from liquid wastes shall be disposed at a legal point of disposal, and in accordance with title 27, Division 2, of the California Code of Regulations. Removal for further treatment, disposal, or reuse at disposal sites (i.e., landfills, WWTFs, composting sites, soil amendment sites) operated in accordance with valid waste discharge requirements issued by a regional water quality control board will satisfy this specification.

F. GENERAL PROVISIONS

1. Availability

   A copy of this Order shall be maintained at the discharge facility and be available at all times to operating personnel.

2. Severability

   Provisions of these waste discharge requirements are severable. If any provision of these requirements is found invalid, the remainder of these requirements shall not be affected.

3. Spills and Sanitary Sewer Overflows

   a. The Discharger shall take all feasible steps to stop spills and sanitary sewer overflows (SSOs) as soon as possible. All reasonable steps should be taken to collect spilled material and protect the public from contact with wastes or waste-contaminated soil or surfaces.

   b. The Discharger shall report orally and in writing to the Regional Water Board staff all SSOs and unauthorized spills of waste. Spill notification and reporting shall be conducted in accordance with the Monitoring and Reporting Program.

4. Operation and Maintenance

   The Discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed

or used by the Discharger to achieve compliance with this Order. Proper operation and maintenance includes adequate laboratory control and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by a Discharger only when necessary to achieve compliance with the conditions of this Order.

The Discharger shall maintain an updated Operation and Maintenance Manual (O&M Manual) for the facility. The Discharger shall update the O&M Manual, as necessary, to conform with changes in operation and maintenance of the WWTF. The O&M Manual shall be readily available to operating personnel on-site. The O&M Manual shall include the following:

a. Description of the treatment plant table of organization showing the number of employees, duties and qualifications and plant attendance schedules (daily, weekends and holidays, part-time, etc.). The description should include documentation that the personnel are knowledgeable and qualified to operate the treatment facility so as to achieve the required level of treatment at all times.

b. Detailed description of safe and effective operation and maintenance of treatment processes, process control instrumentation and equipment.

c. Description of laboratory and quality assurance procedures.

d. Process and equipment inspection and maintenance schedules.

e. Description of safeguards to assure that, should there be reduction, loss, or failure of electric power, the discharger will be able to comply with requirements of this Order.

f. Description of preventive (fail-safe) and contingency (response and cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. These plans shall identify the possible sources (such as loading and storage areas, power outage, waste treatment unit failure, process equipment failure, tank and piping failure) of accidental discharges, untreated or partially treated waste bypass, and polluted drainage.

5. Change in Discharge

The discharger shall promptly report to the Regional Water Board any material change in the character, location, or volume of the discharge.

6. Change in Ownership

In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the following items by letter, a copy of which shall be forwarded to the Regional Water Board:

a. existence of this Order, and
b. the status of the dischargers' annual fee account

7. Vested Rights

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the discharger from liability under federal, state, or local laws, nor create a vested right for the discharger to continue the waste discharge.

8. Monitoring

The discharger shall comply with the Monitoring and Reporting Program and any modifications to these documents as specified by the Regional Water Board Executive Officer. Such documents are attached to this Order and incorporated herein. Chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Department of Public Health shall conform to State Department of Public Health guidelines.

9. Records Retention

The discharger shall maintain records of all monitoring information, including calibration and maintenance records and all strip charts recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Regional Water Board Executive Officer.

10. Signatory Requirements

a. All Report of Waste Discharge applications submitted to the Regional Water Board shall be signed by a principal Executive Officer, ranking elected official, or responsible corporate officer. For purposes of this provision, a responsible corporate officer means:

i. A president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation; or

ii. The manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

b. Reports required by this Order and other information requested by the Regional Water Board may be signed by a duly authorized representative provided:

i. the authorization is made in writing by a person described in paragraph (a) of this provision;

ii. the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the entity; and

iii. the written authorization is submitted to the Regional Water Board prior to or together with any reports, information, or applications signed by the authorized representative.

c. Any person signing a document under paragraph (a) or (b) of this provision shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

11. Inspections

The discharger shall permit authorized staff of the Regional Water Board:

a. to enter premises in which an effluent source is located or in which any required records are kept;
b. access to copy any records required to be kept under terms and conditions of this Order;
c. to inspect monitoring equipment or records; and
d. to sample any discharge.

12. Noncompliance

In the event the discharger is unable to comply with any of the conditions of this Order due to:

a. breakdown of waste treatment equipment;
b. accidents caused by human error or negligence; or
c. other causes such as acts of nature;

the discharger shall notify the Regional Water Board Executive Officer by telephone as soon as it or its agents have knowledge of the incident and confirm this notification in writing within five (5) business days of the telephone notification. The written notification shall include pertinent information explaining reasons for the

noncompliance and shall indicate the steps taken to correct the problem and the dates thereof, and the steps being taken to prevent the problem from recurring.

13. Revision of Requirements

The Regional Water Board will review this Order periodically and may revise requirements when necessary.

14. Operator Certification

Supervisors and operators of wastewater treatment plants shall possess a certificate of appropriate grade in accordance with title 23, California Code of Regulations, section 3680. The State Water Board may accept experience in lieu of qualification training. In lieu of a properly certified wastewater treatment plant operator, the State Water Board may approve use of a water treatment plant operator of appropriate grade certified by the State Department of Health Services where water reclamation is involved.

Although the Sea Ranch Lodge is not classified as a municipal wastewater treatment plant, the County of Sonoma requires, as a condition of approval of the Mitigated Negative Declaration, that the collection, treatment, and disposal system be maintained and operated by a certified Grade I operator, as defined in Title 23, or service provider acceptable to the Sonoma County Permit and Resource Management Department. Consequently, this Provision is applicable to the permitted discharge.

Certification

I, Catherine Kuhlman, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, North Coast Region, on January 21, 2010.

Catherine Kuhlman
Executive Officer

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2010-0002

FOR

SEA RANCH LODGE
WASTEWATER TREATMENT AND DISPOSAL FACILITY
WDID No. 1B06006RSON

Sonoma County

California Water Code section 13267 authorizes the Regional Water Quality Control Board (Regional Water Board) to require technical and monitoring reports. This monitoring and reporting program establishes monitoring and reporting requirements, which implement the state regulations. Any person failing to furnish technical or monitoring reports or falsifying any information therein is guilty of a misdemeanor, and may be subject to civil liability. (Water Code section 13268)

FLOW MEASUREMENT

Wastewater flow to the wastewater treatment system facility, the pressure distributed leachfield, and the subsurface drip irrigation system shall be measured and recorded daily. If there is no discharge during a required reporting period, the Permittee shall indicate in the monthly report that there has been no activity during the required reporting period. All flow measurement devices shall be tested annually and their accuracy verified. Verification shall be submitted with the annual monitoring report.

VISUAL MONITORING

The Permittee shall conduct visual inspections of all septic tanks, grease traps, treatment equipment, cleanouts, and pump stations, no less than monthly. Disposal areas shall be inspected no less than monthly to record any odors, evidence of surfacing effluent, or other signs of malfunction or improper operation.

EFFLUENT MONITORING

The Permittee shall collect samples of the effluent discharge no less than monthly from the waste stream after completion of treatment and prior to discharge to the leachfield and subsurface irrigation systems. Samples shall be collected in accordance with the following table:

Table 1. Effluent Monitoring

Constituent	Units	Type of Sample	Frequency
Biochemical Oxygen Demand	mg/L	Grab	Monthly
Total Suspended Solids	mg/L	Grab	Monthly
Total Coliform Organisms	MPN/ 100 mL	Grab	Monthly
Total Nitrogen	mg/L as N	Grab	Monthly
Nitrate-Nitrogen	mg/L as N	Grab	Monthly

GROUNDWATER MONITORING

The Permittee shall conduct routine groundwater monitoring in the vicinity of its subsurface disposal areas. The routine groundwater monitoring program shall consist of the following:

1. Monitoring Well Construction

   Monitoring wells shall be constructed to yield representative samples year-round from the uppermost layer of the uppermost aquifer and to comply with applicable well standards. The Permittee shall submit for approval by the Regional Water Board Executive Officer a report detailing relevant subsurface stratigraphy and lithology, a diagram of the well showing total drilled depth, well installation depth, construction details including screened interval, surveyed top of casing elevation, and a location map for all installed wells, surveyed to the nearest 0.1 foot.

2. Monitoring Locations

   Groundwater monitoring wells shall be located to allow evaluation of the impact of the waste discharge on groundwater quality in comparison to background groundwater quality and for evaluation of compliance with water quality objectives for groundwater. Additional monitoring wells constructed at the site shall be added to the monitoring network as needed. Samples shall be collected from all installed wells for the constituents specified in Table 2.

3. Monitoring Schedule

   Groundwater samples shall be collected from monitoring wells on at least a quarterly basis. Prior to sampling, the groundwater elevations shall be measured and the wells shall be purged of at least three well volumes until temperature, pH and electrical conductivity have stabilized. Depth to groundwater shall be measured prior to purging to the nearest 0.01 feet. Groundwater samples shall be collected and analyzed for the following constituents:

Table 2. Groundwater Monitoring

Constituent	Units	Type of Sample	Frequency
Groundwater Elevation	0.01 ft	Calculation	Quarterly
Depth to Groundwater	0.01 ft	Measurement	Quarterly
Total Dissolved Solids	mg/L	Grab	Quarterly
Total Coliform Organisms	MPN/ 100 mL	Grab	Quarterly
Fecal Coliform Organisms	MPN/ 100 mL	Grab	Quarterly
Nitrate-Nitrogen	mg/L as N	Grab	Quarterly

SPILLS AND OVERFLOWS NOTIFICATION

1. All spills and sanitary sewer overflows (SSOs) in excess of 1,000 gallons or any size spill or SSO that results in a discharge to a drainage channel or a surface water:

   a. As soon as possible, but not later than **two (2) hours** after becoming aware of the discharge, the Discharger shall notify the State Office of Emergency Services (OES), the local health officer or directors of environmental health with jurisdiction over affected water bodies or land areas, and the Regional Water Board[1].

      Information to be provided verbally to the Regional Water Board includes:
      i. Name and contact information of caller;
      ii. Date, time and location of spill occurrence;
      iii. Estimates of spill volume, rate of flow, and spill duration;
      iv. Surface water bodies impacted, if any;
      v. Cause of spill;
      vi. Cleanup actions taken or repairs made; and
      vii. Responding agencies.

   b. As soon as possible, but not later than **twenty-four (24) hours** after becoming aware of a discharge, the Discharger shall submit to the Regional Water Board a certification that the State Office of Emergency Services and the local health officer or directors of environmental health with jurisdiction over affected water bodies or land areas have been notified of the discharge. For the purpose of this requirement, "certification" means an OES certification number and, for the local health department, name of local health staff, department name, phone number and date and time contacted.

[1] The contact number for spill reporting for the Office of Emergency Services is (800) 852-7550. The contact number of the Regional Water Board during normal business hours is (707) 576-2220. After normal business hours, spill reporting to OES will satisfy the 2 hour notification requirement for the Regional Water Board.

c. Within **five (5) business days**, the Discharger shall submit a written report to the Regional Water Board office. The report must include all available details related to the cause of the spill and corrective action taken, as well as copies of reports submitted to other agencies.

Information to be provided in writing includes:

i. Information provided in verbal notification;
ii. Other agencies notified by phone;
iii. Detailed description of cleanup actions and repairs taken; and
iv. Description of actions that will be taken to minimize or prevent future spills.

d. In the cover letter of the monthly monitoring report, the Discharger shall include a brief written summary of the event and any additional details related to the cause or resolution of the event, including, but not limited to results of any water quality monitoring conducted.

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2. Discharges less than 1,000 gallons that do not reach a drainage channel or a surface water:

a. As soon as possible, but not later than **twenty-four (24) hours** after becoming aware of the discharge, the Discharger shall notify the Regional Water Board and provide the applicable information specified in requirement 1.A of this section.
b. In the cover letter of the monthly monitoring report, the Discharger shall include a written description of the event.

MONTHLY MONITORING REPORT

The Permittee shall submit monthly reports. Reports shall be submitted by the first day of the second month following sampling. The report shall include, at a minimum, the following:

1. **A Letter of Transmittal**: Each report shall be submitted with a letter of transmittal. This letter shall include the following:

a. Identification of facility: Name, address, Order number, and WDID number;
b. Date of report and monitoring period;
c. Identification of all violations of permit conditions found during the monitoring period, including, but not limited to exceedances of average and maximum effluent limitations, system upsets, surfacing effluent, and failure to conduct required monitoring.
d. Details of the violations: parameters, magnitude, test results, frequency, and dates;

e. The cause of the violation;
f. Discussion of corrective actions taken or planned to resolve violations and prevent recurrence, and dates or time schedule of action implementation;
g. Other relevant information including, but not limited to, incidents of wastewater treatment and collection system equipment failure, results of visual observations, system adjustments and cleaning, significant repairs, and reports of wastewater spills or surfacing effluent;
h. Authorized signature and certification statement.

2. **Report Submittal:** Copies of each monitoring report shall be mailed to:

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

ANNUAL MONITORING REPORT

By January 31 of each year, the Permittee shall present an evaluation of the previous year's data, system performance in relation to design capacity, system maintenance, and a review of noncompliance, effluent limitation exceedances and system alterations. The report shall include, at a minimum, the following:

1. **Influent and Effluent Monitoring Data**. A summary of influent and effluent monitoring data from the previous year shall be provided in a tabular format.

2. **Groundwater Monitoring**. The results of groundwater monitoring shall be provided as follows:

   a. A narrative description of all preparatory, monitoring, sampling, and analytical testing activities for the groundwater monitoring. The narrative shall be sufficiently detailed to verify compliance with waste discharge requirements and this monitoring and reporting program. The narrative shall be supported by field logs for each well documenting depth to groundwater; parameters measured before, during, and after purging; method of purging; calculation of casing volume; and total volume of water purged;
   b. Calculation of groundwater elevations;
   c. A narrative discussion of the analytical results for all groundwater locations monitored including spatial and temporal trends, with reference to summary data tables, graphs, and appended analytical reports (as applicable);
   d. A comparison of monitoring data to the groundwater limitations and an explanation of any violation of those requirements;
   e. A scaled map showing relevant structures and features of the facility, the locations of monitoring wells and any other sampling stations; and
   f. Copies of laboratory analytical report(s) for groundwater monitoring.

3. **Compliance Evaluation Summary** The Permittee shall provide a comprehensive discussion of the facility's compliance with all effluent and receiving water limitations and other waste discharge requirements, and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with the Permit.

Ordered by: _____

Catherine Kuhlman
Executive Officer

January 21, 2010