



STATE OF WASHINGTON

DEPARTMENT OF HEALTH

OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY

243 Israel Road SE PO Box 47825 Olympia, Washington 98504-7825

TDD Relay Service: 1-800-525-0127 (TDD/TTY 711)

**LARGE ON-SITE SEWAGE SYSTEM OPERATING PERMIT**

September 30, 2016

Dear KIN005 Beulah Park and Cove LOSS Owner:

Enclosed is your large on-site sewage system **annual operating permit**. Your operating permit is valid from October 1, 2016 to September 30, 2017.

Please do the following **immediately upon receipt**:

- **Read the permit standard requirements (page 2)**
- **Read the system specific permit conditions (page 3 and 4)**
- **Give your operator or operation & maintenance (O&M) provider a copy of the permit.**

Also enclosed is a **maintenance and monitoring report form**. Your annual maintenance and monitoring report should cover August 1, 2016 to July 31, 2017. This report must be completed and submitted with your permit renewal application for next year. Provide this form (or a form of your choosing with the same information) to your operator or O&M provider. This will tell them what maintenance must be done and recorded. Your operator or O&M provider must sign the completed report.

Monitoring

Thank you for submitting your monitoring results for last year. Nitrates in your north monitoring well continue to be high. If they continue to trend higher, an evaluation of the potential impacts maybe required. Your monitoring will continue and is listed on page 4 of your permit.

Reminders

- You must report to us any change in your operator, including when there is no operator, within 30 days (WAC 246-272B-02700(3)).
- You must report to us any change in ownership or management entity at least 30 days prior to the change taking effect (WAC 246-272B-02550(10)).
- You must report to us any component failure (such as surfacing sewage or inadequately treated sewage reaching surface or groundwater) within one business day (WAC 246-272B-07450(3)).

If you have questions, please contact us at 360-236-3330 or [wastewatermgmt@doh.wa.gov](mailto:wastewatermgmt@doh.wa.gov).

Sincerely,

Laura Homan  
LOSS Compliance Manager

Enclosures

FILE COPY



**PERMIT**Print Date: **September 26, 2016**Issued Date: **October 01, 2016**Expiration Date: **September 30, 2017**

Amended Date:

STATE OF WASHINGTON DEPARTMENT OF HEALTH  
OFFICE OF SHELLFISH & WATER PROTECTION  
WASTEWATER MANAGEMENT SECTION  
(360) 236-3330

In compliance with the provisions of  
Chapter 70.118B RCW, Large on-site sewage disposal systems,  
and Chapter 246-272B WAC

Authorizes  
**King Co. Dept. of Natural Resources and Parks**  
**1200 Monster Rd SW**  
**Renton, Washington 98057**

To operate your Large Onsite Sewage System (LOSS) in accordance with the attached conditions:

System Name	<b>Beulah Park and Cove</b>
County Name	<b>King</b>
Peak Design Capacity	<b>14520</b>
System Location	<b>1350 SW 172nd Street, Vashon, Washington, 98070</b>
Permit Number	<b>KIN005</b>
System Status	<b>Active</b>
Treatment Description	<b>RGF, UV disinfection to dripfield</b>
Treatment Level Required	<b>Other</b>



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Jerrod Davis, P.E.  
Director, Office of Shellfish and Water Protection  
Washington State Department of Health



## STANDARD PERMIT REQUIREMENTS

1. The owner must submit a permit renewal application, fees, and other items required in this permit 30 days prior to expiration of this permit.
2. The owner or operator must submit an annual operating report, documenting maintenance and monitoring activities described in the approved O&M Manual and Monitoring and Reporting Plan for this system or as directed by DOH. Forms and publications related to LOSS can be found at <http://www.doh.wa.gov/CommunityandEnvironment/WastewaterManagement/FormsPublications.aspx>.
3. The owner must address and correct all failures and malfunctions of the LOSS immediately.
4. The owner must report any failure to the Department of Health (DOH) by telephone (360-236-3330) or by email ([wastewatermgmt@doh.wa.gov](mailto:wastewatermgmt@doh.wa.gov)) within one business day of discovery.
5. The owner or operator must notify DOH within 5 calendar days when the LOSS is not in compliance with any operating permit monitoring limits or conditions.
6. The owner or operator must monitor, record and report flow data and ensure that the maximum volume of sewage generated does not exceed the approved design flow. Flow should be reported as the average daily flow calculated from monthly readings unless stated otherwise in the Monitoring and Reporting Section of this permit.
7. The owner and/or operator must ensure that effluent waste strength prior to dispersal meets quality limits established in this permit or if not specified must be equal to or higher quality than septic tank effluent originating from a residential source.
8. The owner must employ an approved management entity at all times.
9. The owner must continuously employ one or more qualified operators meeting the requirements of WAC 246-272B-07200.
10. The owner must notify DOH of changes to the management entity of record at least 30 days prior to the change(s) occurring.
11. The owner must notify DOH of changes to the operator(s) of record within 30 days.
12. The owner and operator are responsible for ensuring that certain substances do not enter the wastewater treatment system. These include: (1) Strong bases, acids, chlorinated solvents, or other toxic or hazardous substances; (2) Fire or explosion hazards; (3) Solid or viscous wastes that could plug sewer lines; (4) Drainage from surface runoff, footing drains, roof drains, subsurface storm water infiltration systems, swimming pools, hot tubs, and other non-sewage rains; and (5) Industrial wastewater.
13. The owner is responsible for assuring that the wastewater treatment system is operated, monitored and maintained in accordance with regulations in WAC 246-272B (available online at <http://apps.leg.wa.gov/wac/default.aspx?cite=246-272B>).
14. All water quality analyses must be conducted by a laboratory accredited by the Washington Department of Ecology. Sampling and analytical methods used shall conform to the latest revision of Guidelines Establishing Test Procedures for The Analysis of Pollutants contained in 40 CFR Part 136 or to the latest revision of Standard Methods for the Examination of Water and Wastewater (APHA) unless otherwise specified in this permit or approved by DOH.
15. The owner and operator are required to maintain for a period of at least 3 years accurate records of all monitoring and maintenance related activities and to make such records available to DOH upon request.
16. With appropriate notice to the owner, DOH may enter in or onto the LOSS site or LOSS facility at reasonable times during normal business hours as necessary to verify compliance with permit conditions or to investigate public health or environmental concerns.

## SUMMARY OF PERMIT CONDITIONS

Permit No. **KIN005**

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**Other:** Upgrades planned for the LOSS dripfield next year (2016) will need to be approved by DOH. Consult with the LOSS program to determine the appropriate site review, environmental review, or engineering documents to prepare and submit .

## MONITORING REQUIREMENTS

Permit No. KIN005

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Monitoring Type	Parameter	Units	Sample Point	Sampling Frequency	Sample Type
<b>Effluent</b> The owner or operator shall monitor treated wastewater according to the following schedule:	CBOD5	mg/L	Prior to dripfield	Quarterly	Grab
	Fecal Coliform	CFU/100 mL	Prior to drainfield	Quarterly	Grab
	Flow			Daily	Continuous
	pH	Standard Units	prior to dripfield	Quarterly	Grab
	Total Nitrogen	mg/L	Prior to dripfield	Quarterly	Grab
	TSS	mg/L	Prior to Dripfield	Quarterly	Grab
<b>GroundWater</b> The owner or operator shall monitor groundwater according to the following schedule:	Nitrate	mg/L	MW#1, AFA 916	Bi-annual	Grab
	Nitrate	mg/L	MW#2, AFA 917	Bi-annual	Grab

Effluent and environmental monitoring limits are located in Appendix A, attached to this permit.

**Appendix A**  
**Beulah Park and Cove**  
**Permit # KIN005**

**Effluent Limits\***

<b>Parameter</b>	<b>Limit (Annual Average)</b>
CBOD5	25.00 mg/L
Fecal Coliform**	200.00 CFU/100 mL
TSS	30.00 mg/L

**Groundwater Limits\***

<b>Parameter</b>	<b>Limit</b>	<b>Early Warning Value</b>
Nitrate	10.00 mg/L	

\* The owner / operator must follow their approved Monitoring and Reporting Plan (MRP) for sampling, transporting, and reporting sample results. If there is no approved MRP and a sample is 50% higher than your permit limit or early warning value, the owner / operator should resample within 5 days. If the second sample is over the limit, the sample results should be sent to [wastewaterrgmt@doh.wa.gov](mailto:wastewaterrgmt@doh.wa.gov) within 10 days of receiving the 2nd sample results.

\*\* A numerical result is required for fecal or total coliform. Results that are reported as a greater than value (example: >1600 cfu/100 ml) or as "too numerous to count" (TNTC) are generally not acceptable and do not satisfy your permit condition. If you receive this type of lab result, you should submit a second sample for analysis.







# LOSS Annual Maintenance and Monitoring Report

List operating problems, repairs, and replacements on the back.

System Information: Permit Number: \_\_\_\_\_

System Name: \_\_\_\_\_

System Component / Maintenance Task	Minimum Frequency	Insert date or measurement when task is completed											
		Aug 2016	Sep 2016	Oct 2016	Nov 2016	Dec 2016	Jan 2017	Feb 2017	Mar 2017	Apr 2017	May 2017	June 2017	July 2017
<b>Sewage Tanks</b>													
Measure and Record Sludge Level	Semi-Annual												
Measure and Record Scum Level	Semi-Annual												
Remove Sludge from Tanks	As Needed												
Check / Clean Effluent Filters	Semi-Annual												
Check Inlets / Outlets	Semi-Annual												
<b>Pump and Pump Chamber</b>													
Visual Inspection	Monthly												
Check / Clean Screen(s)	Semi-Annual												
Test / Run Pumps	Semi-Annual												
Check Float Switch Operation	Semi-Annual												
<b>Pump Controls and Electrical Panel</b>													
Manually Operate Controls	Semi-Annual												
Check for Moisture & Corrosion	Semi-Annual												
Test Alarm(s)	Semi-Annual												
<b>Drainfields</b>													
Inspect Monitor Ports	Monthly												
Inspect Drainfields for Ponding; Mow Grass & Remove Brush	Monthly												
Inspect and Exercise Valves	Semi-Annual												
Rotate Drainfield Sectors	Semi-Annual												

Average Daily Flows (gpd) → Monthly

I hereby certify that the information on this form is true, complete, and accurate.

System Operator (Print): \_\_\_\_\_

Company/Title: \_\_\_\_\_

System Operator's Signature: \_\_\_\_\_

DATE: \_\_\_\_\_

Mail signed original with renewal application, fee, and other required paperwork. Keep a copy for your records for a minimum of three (3) years.



**Operating Problems, Repairs, and Replacements**

**Date & Initials**




## LOSS Annual Maintenance and Monitoring Report FAQ Sheet

All owners are required to submit an **annual maintenance and monitoring report with their annual operating permit renewal application, and permit fee.** We expect you to perform, and report on, all maintenance and monitoring listed in your Department of Health-approved Operation and Maintenance (O&M) Manual, Monitoring and Reporting Plan, and operating permit.

This form was developed for the most common treatment system components: septic tank, pump chamber, pressure drainfield. It may not cover the scope of the O&M activities for your LOSS or reporting required in your operating permit. Also, list significant repairs or replacements you accomplished during your reporting cycle and any operating problems.

### Do I have to use the DOH form?

No. You can create your own form to report the basic monitoring and maintenance your system needs through the year. **You must report on items required in your current operating permit, as well as describe any operating problems, and repairs and replacements.**

### Who may complete this form?

The owner or your operator may complete this form, but it must be signed by your LOSS operator or your O&M provider. **The permit renewal application must be signed by the owner.**

### How do I calculate and report Average Daily Flows?

This should be included in your O&M manual or you can check with your design engineer. DOH also has information on our website. For guidance using a Dose Counter:

<http://www.doh.wa.gov/Portals/1/Documents/Pubs/337-118.pdf> or Elapsed Time Meter:  
<http://www.doh.wa.gov/Portals/1/Documents/Pubs/337-119.pdf>.

### To fill out this form on the computer:

This form can be found at <http://www.doh.wa.gov/Portals/1/Documents/Pubs/337-049-Q3.doc>

Before you begin filling in the form, be sure and save it. **If you close the form without saving it to your computer, your changes will be lost.** Be sure to report average daily flow data in gallons per day (gpd). Once you are finished, save, print, and sign the completed form. You will want to keep a copy for your records.

Scan and email, or mail the original signed form with your annual operating permit renewal application, renewal fee, and all other required documents as instructed on the renewal application and in your operating permit.

### Can I submit this form electronically?

No, not directly, this form requires an original signature. You can scan and email it, or mail this together with your other operating permit renewal paperwork.

### Whom do I contact if I have questions?

Washington State Department of Health  
Office of Environmental Health & Safety  
Wastewater Management Section  
LOSS Program

Phone: 360-236-3330  
E-mail: [wastewatmgmt@doh.wa.gov](mailto:wastewatmgmt@doh.wa.gov)  
Web:  
[www.doh.wa.gov/CommunityandEnvironment/WastewaterManagement/LOSSProgram.aspx](http://www.doh.wa.gov/CommunityandEnvironment/WastewaterManagement/LOSSProgram.aspx)

