



State of Washington Department of Ecology

WASTEWATER TREATMENT PLANT COMPLIANCE INSPECTION REPORT

Northwest Regional Office
3190160th Ave SE
Bellevue, WA 98008
(425) 649-7000 ph
(425) 649-7098 fax
(last update 4-15-05)

Section A: General Information

Report Version <input checked="" type="checkbox"/> New <input type="checkbox"/> Amended	PERMIT # ST7373	mo/day/yr 07/27/07	Inspection Type <u>A</u>	Inspector Code <u>H</u>	Facility Type <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private
Remarks					
Inspection work days 2.0	Facility Self-Monitoring 5	Photos Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Lead Ecology Inspector(s) Alison Evans	

Section B: Facility Data

Name, Location, and Phone of Facility Inspected Holmes Harbor Water District 1200 E. Antelope Road Freeland, WA 98249 Island County	Entry Time 8:40 AM 07/27/07	Permit Effective Date 09/01/03
	Exit Time 9:15 AM 07/27/07	Permit Expiration Date 08/22/08
Name(s)/Title(s) of On-Site Representative(s) Kelly Wynn – Jim Allen Ezzy, Group II Operator Ken Eckelberg – District Manager	Ecology Staff On-Site Alison Evans, Facility Manager	
Name, Address, Title, Phone, and Fax Number of Responsible Official Mr. Bob Randolph, President PO Box 1330 Freeland, WA 98249 Phone Number _____ Fax _____ Contacted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Other Facility Data DOH contact: Craig Riley	

Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

<input type="checkbox"/> Permit	<input type="checkbox"/> Flow Measurement	<input type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> CSO/SSO (Sewer Overflow)
<input type="checkbox"/> Records/Reports	<input type="checkbox"/> Self-Monitoring Program	<input checked="" type="checkbox"/> Sludge Handling/Disposal	<input type="checkbox"/> Pollution Prevention
<input checked="" type="checkbox"/> Facility Site Review	<input type="checkbox"/> Compliance Schedules	<input type="checkbox"/> Pretreatment	<input type="checkbox"/> Multimedia
<input checked="" type="checkbox"/> Effluent	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Other

Section D: Summary of Findings/Comments**I. Introduction**

A regional Class I inspection was conducted on July 27, 2007. Alison Evans of Ecology's NWRO WQ Municipal Unit and Mark Toy of DOH's Shellfish Program visited the facility for a brief tour given by Jim Allen, Water and Wastewater Plant Operator. Prior notification of the inspection was not given.

Holmes Harbor WWTP is located near the town of Freeland on Whidbey Island, Island County, and serves a planned development containing 458 single-family building lots and a few adjacent developments. About 200 hook-ups to the system are completed. There are no significant industrial dischargers. The water district owns the plant as of August 1998, and Water and Wastewater Services is currently being contracted to perform the day-to-day operations. Septic effluent enters the plant and undergoes activated sludge treatment. Treatment consists of a sequencing batch reactor (SBR), chemical coagulation, sand filtration, chlorination, and digestion of solids. Two storage ponds hold the treated effluent during the wet weather season when land application is precluded. The east pond receives effluent meeting permit limits and ready for final application, and the west pond receives any effluent which fails to meet limits and which may not be applied without further treatment. Treated effluent is used as irrigation water on the golf course during the spring and summer months.

Influent flows to the facility currently average 0.06 MGD during the high flow season (Nov - Jan). The facility is currently designed to handle 0.1 MGD.

The purpose of this inspection was to fulfill the regional Class I requirements by conducting a site inspection and assessing the permittee's self monitoring and maintenance procedures.

II. Results and Discussion

Recent Compliance: The facility has very few effluent violations; the last effluent violation was a high fecal count in August 2001. When permit limits are not met, the wastewater is routed to the back pond to ultimately be retreated.

Upcoming Projects: Holmes Harbor is in the bid process for the construction of a storage pond that will hold effluent that does not meet permit limits. This pond is scheduled to be built by spring 2008. Holmes Harbor is also planning to purchase a new sand filter; the existing filter is approaching its design life and a backup filter would be useful for cleaning purposes.

Solids Removal: Holmes Harbor typically sends solids to the Island County Septage Facility. However, due to recent septic tank servicing requirements, Island County Septage is expecting an increase in hauled septage deliveries and is therefore limiting the amount of septage received from the wastewater treatment plants. As a solution, Holmes Harbor has converted the spare SBR basin into a digester so it can

hold the solids longer and digest them further. Consideration is being made to install a digester so the SBR can be available as back-up if needed. Jim says the solids in the back-up SBR can be quickly pumped to the aerobic digester if the backup basin is ever needed.

III. Conclusions

The effluent looked clear and Jim is doing a good job keeping the facility clean and the effluent quality within compliance limits. An annual Cross-connection report was due in April but never received by Ecology.



The backup SBR needs to be made available to meet redundancy requirements. Ecology strongly recommends that Holmes Harbor figures out a long-term plan for solids management. Marietta Sharp is available for consultation on this matter if needed.

Alison Evans, facility manager, should be contacted at 425-649-7160 with permit related questions. Carl Jones should be contacted at 360 407-6431 with any operation-related questions. Amy Jankowiak should be contacted at 425-649-7195 with any compliance-related questions.

Attachments: photos

Copies to: Alison Evans, Facility Manager, NWRO
Board of Commissioners, Holmes Harbor
Jim Allen, Plant Operator, Holmes Harbor
Craig Riley, DOH

Amy Jankowiak, Municipal Compliance, NWRO
Carl Jones, Outreach Operator Trainer, SWRO, e-copy only
Kelly Wynn, Water and Wastewater Services
Central Files, Holmes Harbor WQ 6.1

Name(s) and Signatures of Inspector(s)	Agency/Office/Telephone	Date
Alison Evans 	WA Dept. of Ecology, NWRO, (425)649-7160 3190 160 th Ave SE, Bellevue, WA 98008-5452	8/16/07
Name and Signature of Management QA Reviewer	Agency/Office/Phone and Fax Numbers	Date
Karen Burgess 	WA Dept. of Ecology, NWRO, (425)649-7060 3190 160 th Ave SE, Bellevue, WA 98008-5452	8/17/07

UNANNOUNCED Inspection

INSTRUCTIONS

Section A: General Information

Report Version: New for 1st version, Amended for amended versions

NPDES Permit No.: Enter the facility's NPDES or State permit number.

Inspection Date: Insert the date entry was made into the facility. Use the month/day/year format (e.g., 06/30/04 = June 30, 2004).

Inspection Type: Use one of the codes listed below to describe the type of inspection:

- | | |
|--|--|
| A Compliance Evaluation (non-sampling) | G Compliance Evaluation (Sampling) Re-Sample |
| B Compliance Evaluation (sampling) | H Reconnaissance |
| C Enforcement Case Support | I Reconnaissance |
| D Multimedia | J Site Visit |
| E Pretreatment Compliance Inspection | K Other |
| F Compliance Evaluation (non sampling) Follow-up | |

Inspector Code: Use one of the codes listed below to describe the *lead agency* in the inspection:

- | | |
|---|--|
| E - Ecology Inspector | L - Joint Ecology/Laboratory Accreditation Inspectors – Ecology Lead |
| H - Joint Ecology/Health – Ecology Lead | T - Joint EPA/Ecology Inspectors - EPA Lead |
| J - Joint Ecology/EPA Inspectors - Ecology Lead | C - Contractor or Other Inspectors (<i>Specify in Remarks Columns</i>) |

Facility Type: Use one of the choices below to describe the facility.

- Public - Municipal Publicly Owned Treatment Works (POTWs)
Private - Municipal Privately Owned Treatment Works

Remarks: These columns are reserved for remarks.

Inspection Work Days: Estimate the total work effort (to the nearest 0.1 work day), up to 99.9 days, that were used to complete the inspection. This estimate includes the accumulative effort of all participating inspectors; any effort for laboratory analyses, testing, travel time and preparation time. This estimate does not require detailed documentation.

Facility Evaluation Rating: Use information gathered during the inspection (regardless of inspection type) to evaluate the quality of the facility self-monitoring program. Grade the program using a scale of 1 to 5 with a score of 5 being used for very reliable self-monitoring programs, 3 being satisfactory, and 1 being used for very unreliable programs.

Photos Taken: Yes or No

Samples Taken: Yes or No

Lead Ecology Inspector: Enter lead inspector's name

Section B: Facility Data

This section is self-explanatory except for: "Other Facility Data," which may include new information not in the permit or PCS (e.g., new outfalls, names of receiving waters, new ownership, and other updates to the record), e-mail addresses...; and "Ecology Staff On-Site", which may include staff names, titles, phone numbers, or e-mail addresses.

Section C: Areas Evaluated During Inspection

Check only those areas evaluated by marking the appropriate box. Use Section D and additional sheets as necessary.

Section D: Summary of Findings/Comments

Support the findings, as necessary, in a narrative report. Use the headings given on the report form (staffing, back-up power) as appropriate. Reference a list of attachments, such as completed checklists, photos, lab reports, etc. Use extra sheets as necessary.

LINKS AND INFORMATION

"Informational Manual for Treatment Plant Operators"; February 2004; by the Department of Ecology Publication Number 04-10-020:

<http://www.ecy.wa.gov/pubs/0410020.pdf> The manual was prepared to help wastewater treatment plant operators complete and submit their Discharge Monitoring Reports (DMRs) and other annual reports to the Department of Ecology. To request a hard copy, contact the Department of Ecology, Publications Distribution Center at P.O. Box 47600, Olympia, WA 98504-7600 or at (360) 407-7472. Updates to the manual are included on the website version.

Ecology's Wastewater and Reuse website: <http://www.ecy.wa.gov/programs/wq/wastewater/index.html>

Ecology's Operator Certification website: http://www.ecy.wa.gov/programs/wq/wastewater/op_cert/index.html

Ecology's Laboratory Accreditation website: http://www.ecy.wa.gov/programs/eap/labs/labs_main.html

Ecology's Biosolids website: <http://www.ecy.wa.gov/programs/swfa/biosolids/>

Ecology's Operator Outreach: Carl Jones (360) 407-6431; cjon461@ecy.wa.gov

Ecology's Municipal Compliance Specialist (Northwest Regional Office): Amy Jankowiak (425) 649-7195; ajan461@ecy.wa.gov

Ecology's Wastewater Operator Certification Coordinator: Poppy Carre (360) 407-6449; 1-800-633-6193 (within the state)

poca461@ecy.wa.gov

Ecology's Biosolids Coordinator (Northwest Regional Office) Marietta Sharp (425) 649-7258 mars461@ecy.wa.gov

Reporting Spills/Overflows/Upsets/Bypasses/Loss of Disinfection IMMEDIATELY:

Ecology's 24-hour number: (425) 649-7000 to report a spill

Department of Health – Shellfish Program 24-hour number: (360) 236-3330

**Holmes Harbor WWTP – State Waste Discharge Permit #ST 7373
7/27/07 Inspection**

PHOTO NO. 1

Date: 7/27/07
Taken by: Alison Evans
Witness: Mark Toy

Description: Holding ponds - inspected and patched frequently.

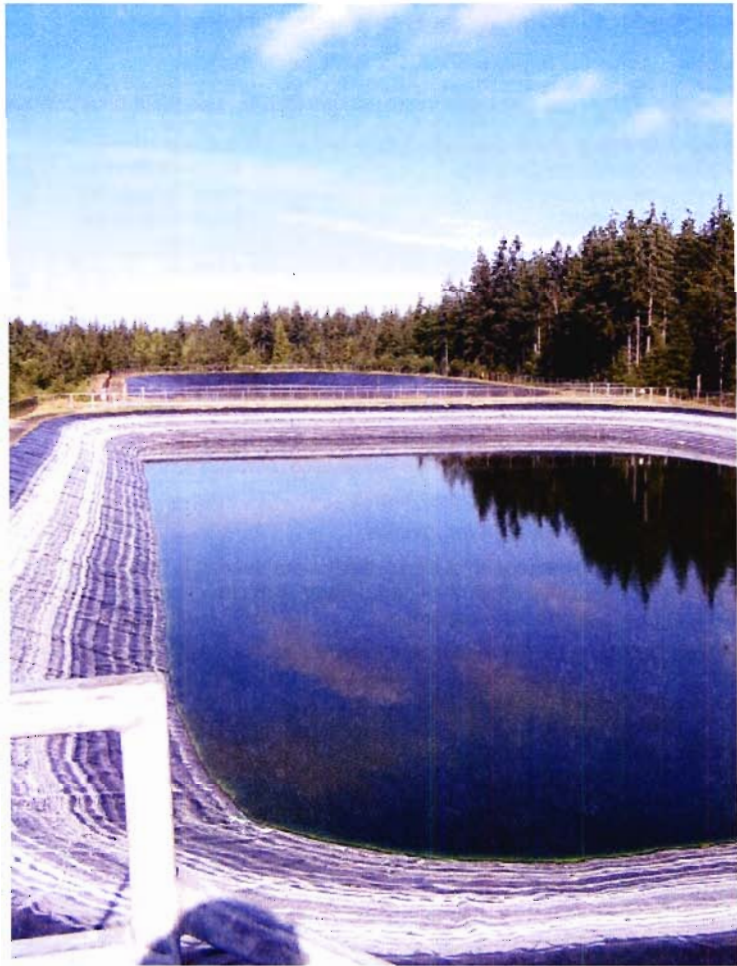
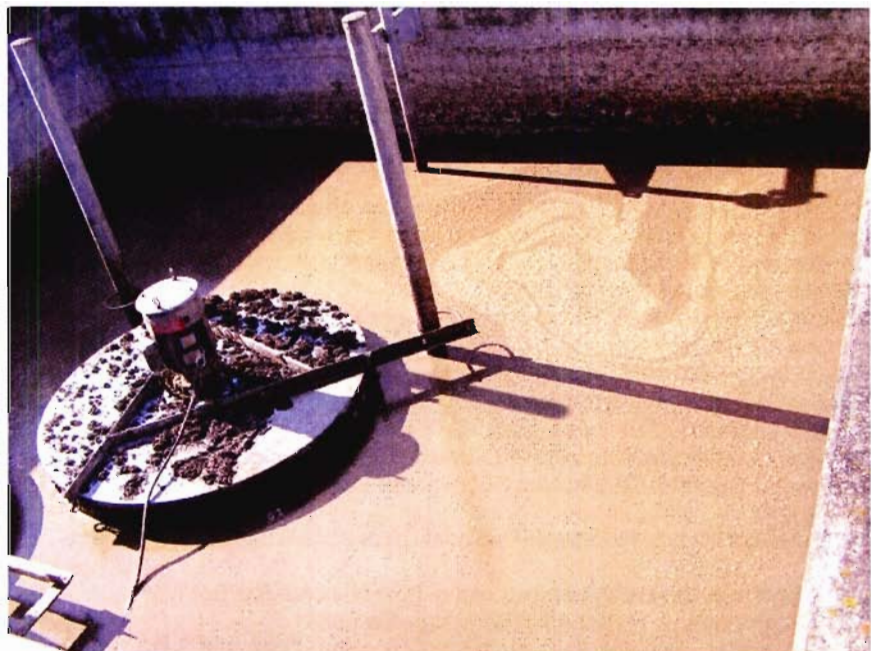


PHOTO NO. 2

Date: 7/27/07
Taken by: Alison Evans
Witness: Mark Toy

Description: SBR basin.



Holmes Harbor WWTP – State Waste Discharge Permit #ST 7373
7/27/07 Inspection

PHOTO NO. 3

Date: 7/27/07

Taken by: Alison Evans

Witness: Mark Toy

Description: Return stream from
turbidity and chlorine residual monitors.



PHOTO NO. 4

Date: 7/27/07

Taken by: Alison Evans

Witness: Mark Toy

Description: Exit of chlorine contact chamber.
Reclaimed water looked clear.

