

Onsite Sewage System

Operational Inspection Report

Shelly Paradise
33xx- xxth Ave SE
Everett WA 98205

11 November 2004

Site address: 33xx - xxth Ave SE Everett, WA

SEPTIC TANK CONDITION

This a two compartment 1000 gallon tank with a depth of 18 inches to the top. There are risers to surface over the access points in good condition. There was no evidence of groundwater intrusion and no groundwater present. The condition of the organic loading was inspected with the following levels noted.

First chamber: 10 inches sludge 6 inches scum Maximums: 24" sludge 12" scum
Second chamber: 4 inches sludge 2 inches scum Maximums: 18" sludge 8" scum
Inlet baffle condition: Good Outlet baffle condition: Good Filter condition: Good
Structural condition: Good Surface grading: Good

Notes:

Recommendation: Reinspect in 18 months, probable pumping 18-24 months at current loading rates

PUMP TANK CONDITION

This is a single compartment 1000 gallon tank with a depth of 18 inches to the top. There are risers to surface over the access points. There was no evidence of groundwater intrusion and no groundwater present. The pump and its controls were inspected and tested as noted below.

Pump size: Zoeller N98 110V in Good condition
Dose volume: 23 gallons Pump rate: 55 gallons per minute Pump control is time dosed
On time: .43 minutes IPC-SF 120 controller Off time: 80 minutes
Alarm function: Good Control float condition: n/a
Check valve condition: Good Disconnect Union condition: Good
Vacum break condition: Good Electrical junction box condition: Good
Pump block condition: Good Electrical condition: Good
Structural condition: Good Surface grading: Good
Sludge accumulation: oily film Scum accumulation: 0 inch

Notes: Seen to have an oily film on top of water in tank.

Recommendation:

SANDFILTER CONDITION

The infiltrative surface area is 400 square feet with a configuration of 10 feet wide by 40 feet long. There are risers to surface over the access points. The infiltrative surface was in poor condition with _ to 1 inches of standing water and a black sand formation of _ to _ inches. There is a slight dip in the middle of the Sandfilter around the pump well. (over)

The pump and its controls were inspected and tested as noted below.

Pump size: Zoeller N98 110V in Good condition
Dose volume: n/a gallons Pump rate: n/a gallons per minute Pump control is on demand

Check valve condition: Good
Vacuum break condition: Good
Pump block condition: Good
Structural condition: Good
Sludge accumulation: 0 inches

Disconnect Union condition: Good
Electrical junction box condition: Good
Electrical condition: Good
Surface grading: slight dip in the middle
Scum accumulation: 0 inches

Notes: On top of sand appears to be a light layer of grayish clear film that could be grease.

Recommendation: Homeowner monitor 2 week interval, perform aeration (done)

DRAINFIELD CONDITION

This is a Gravity Distribution system, with one half of the drainfield being used. The trench width is 36 inches There are risers to surface over the access points. The depth of cover material was 18 inches of sandy loam.

The drainfield laterals were inspected and their condition noted below.

Lateral condition #1(top) Ponded, Cover soil condition: Good Depth 18 inches.

Squirt height: N/A Surface grading: Good Access ports: Good
Infiltrative surface had 9 to 10 inches of standing water and 0 inches of biomat formation

Lateral condition #2 Ponded Cover soil condition: Good Depth 18 inches.

Squirt height: N/A Surface grading: Good Access ports: Good
Infiltrative surface had 4 to 6 inches of standing water and 0 inches of biomat formation

Lateral condition #3 Ok Cover soil condition: Good Depth 18 inches.

Squirt height: N/A Surface grading: Good Access ports: Good
Infiltrative surface had 0 inches of standing water and 0 inches of biomat formation

Notes: Only half of the Drainfeild is in use and Lateral #1 is heavily ponded, Lateral #2 is also ponded, Lateral #3 is ok.

Recommendation:

CONCLUSION

The Onsite Sewage system at the above listed site is in working order with some performance Issues surrounding the sandfilter interface. Oily substance present in pump tank and sandfilter affecting absorbtion rate. Change system usage and monitor. Possible surface water intrusion into sandfilter.