

**Inspection and Operation Procedure
Perc-Rite® Onsite Drip Dispersal System**

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Name: _____ Date: _____
Address: _____

I. Periodic Inspections (quarterly/semi-annually/other)

A. Field Conditions

Walk the field and record any visible wet spots from the drip system.

O.K. ___ Repair ___ Comments and remedial action

B. Control Panel

1. Lights and manual switch positions.

Open the control panel and lid to the hydraulic unit and pump tank.
Ensure all manual switches are in the automatic position.
With Microprocessor on, verify power light and run lights are on.

O.K. ___ Comments and remedial action

2. Check pin lights are operating correctly.

O.K. ___ Comments and remedial action

3. Verify there is output only when in automatic operation.

Start automatic cycle with "Reset/Stop" button.

O.K. ___ Comments and remedial action

C. Pump Chamber Liquid Level Float Switches

Check liquid level in the pump chamber to confirm switch operation.

If a float is down, its light should be off. Manually raise floats to verify operation.

O.K. ___ Comments and remedial action

Perc-Rite O & M Sheet

D. Pump and Valve Operation

1. Place pump "Hand-Off-Auto" switch in the "Hand" position to dead head pump against valves. Open master valve, if provided.
Flow meter should not turn indicating there are no leaks.

O.K. ___ Comments and remedial action

2. With the pump running, place each zone valve in the "Hand" (open) position one at a time to check operation. With one zone valve open, flow should register on the flow meter. When the zone valve closes (off position), the flow should stop.

O.K. ___ Comments and remedial action

3. With one zone valve open and flowing, close and reopen (optional) master valve to check operation.

O.K. ___ Comments and remedial action

4. With the pump in the "Hand" position open the filter backwash valve for filter one and two for ten seconds then close. There should be no flow registering in the flow meter and you should hear the valves open and close. The backwash return valve diaphragm will rise then lower during backflush.

O.K. ___ Comments and remedial action

5. Return all switches to the automatic position

E. Hydraulic Unit

1. Examine one filter and clean all filters as needed.

O.K. ___ Comments and remedial action

2. Examine all hydraulic components for leaks, tubing crimps and other problems.

O.K. ___ Comments and remedial action

3. Determine how many zones are in operation and the installed flow rates from the installation records.

O.K. ___ Comments and remedial action

4. Determine actual flow in gpd since last maintenance visit, compare to the design flow.

O.K. ___ Comments and remedial action

II. Annual Inspection (annually also include the following tasks)

A. Zone Dose Rates

1. Open the air release valve boxes and inspect. Make sure they close during the dose cycle with no water leak after air is evacuated.

O.K. ___ Comments and remedial action

2. Determine how many zones are in operation and the installed flow rates from the installation records.

O.K. ___ Comments and remedial action

3. With the pump in the "Hand" position, select the first zone by placing the zone valve switch in the "Hand" position. After pressurization time, check flow rates by reading the flow meter for a timed minute. Repeat for all zones. If flow varies by more than 10% from original flow rates, reset flow rates.

O.K. ___ Comments and remedial action

4. After the final zone is checked, place the "Zone Return" valve in the "Hand" position while the "Zone Valve is still in the "Hand" position and verify that the flow rate increased to provide field flushing.

O.K. ___ Comments and remedial action

5. Return appropriate switches to the automatic position.

O.K. ___ Comments and remedial action

6. Press reset button for 5 seconds and check automatic zone dosing time.

O.K. ___ Comments and remedial action

B. Tanks & Pumps

1. Examine and clean effluent screens, filters, and floats as needed.

O.K. ___ Comments and remedial action

2. Measure Levels in Septic Tank

Sludge Depth _____ Scum Depth _____

III. Reporting

- A. Provide summary report to the client with pertinent operating and maintenance information.
- B. Provide signed and dated inspection report to regulatory agency(s) as required.

IV. Operator Signature _____

Date: _____ MA Treatment Plant Operator # _____