



Description of water diagnostic (leak) reports

The H2O Degree server can create a number of different water diagnostic reports. Each diagnostic report is designed to find leaks for a specific type water meter, plumbing fixture and apartment configuration. Some of the leak reports are designed for only the H2O Degree water meters, other leak reports work with any standard pulse water meter.

1) Toilet diagnostic report

This diagnostic report identifies possible leaks for a point of use H2O Degree water meter on a toilet

2) Point of Use Point – non toilet diagnostic report

This diagnostic report identifies possible leaks for a point of use H2O Degree water meter s on a water fixture other than a toilet

3) Point of Entry - multi meter diagnostic report

This diagnostic report identifies possible leaks for a point of entry H2O Degree water meter when there are two points of water entry in one apartment; one on the hot water and one on the cold water supply

4) Point of Entry - single meter diagnostic report

This diagnostic report identifies possible leaks for a point of entry H2O Degree water meter when there is one point of entry in one apartment; one on the cold water supply

5) Pulse water meter – daily diagnostic report

This diagnostic report identifies possible leaks from a generic pulse water meter using only once per day data.

6) Water meter - hourly data diagnostic report

This diagnostic report identifies possible leaks by inspecting every hour of water consumption and looking for continuous use over an entire day. This report can be used on a H2O Degree meter or any pulse meter where the pulse is valued at one pulse per gallon

Description data from the H2O Degree water meter

The H2O Degree water meter computes and saves a number of registers

- 1) Gallons (cumulative gallons that have flowed through the water meter)
- 2) Number of events (cumulative number of time started and stopped flow (events) that have occurred)
- 3) Number of minutes of flow (cumulative time that water has flowed through the water meter)
- 4) Amount of hot water energy in the water (cumulative total)
- 5) Temperature of the water



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H2O Degree Toilet Diagnostic Report - Pomeroy

Prepared Jan 14 2016 2:45AM

Gallons Per Event Threshold : 8
Events Per Day Threshold : 50
Single Day High Use Threshold : 150
Gallons Used with No Events Threshold : 10

This toilet diagnostic report uses the above four criteria in order to determine if a toilet is leaking. One toilet can fail one or more of the criteria. The table of contents is the most important part of the toilet diagnostic report. The Toilet Diagnostic Report is designed to be viewed using a browser. The table of contents shown below allows the user to click on the View link in order to see the last 30 days of data for any toilet on the diagnostic report. The historical 30 day data is shown on the report so that the user can look for recurring problems over the last 30 days.

HINT: Use the table of contents to determine the toilets with the largest 30 day consumption and repair those toilets first.

Table of Contents

Building	Apt	Serial #	Location	Water Last 30 Days	Events Last 30 Days	Gallons Per Event	Events Per Day	Single Day High Use	Use with No Events
6705 S Lewis Ave	129	000D6F0004AD84BC	Half Bath toilet	69925	..	View		View	
6841 S Lewis Ave	079	000D6F0005029DDF	Full Bath Toilet	18486	..	View		View	
6821 S Lewis Ave	041	000D6F0004C9C26E	Full Bath Toilet	7287	8797		View	View	
6805 S Lewis Ave	009	000D6F0005408000	Full Bath Toilet	6556	8143		View	View	
6855 S Lewis Ave	107	000D6F0005407FFF	Full Bath Toilet	4732	..			View	View
6805 S Lewis Ave	009	000D6F0004C9D2FC	Half Bath toilet	2504	..			View	
6719 S Lewis Ave	157	000D6F0005409E4B	Full Bath Toilet	2256	3401		View		
6807 S Lewis Ave	014	000D6F000542F33E	Full Bath Toilet	1244	..	View			

The toilet diagnostic report uses four criteria to determine if there is a possible leak.

Leak criteria #1 - Gallons per Event Threshold exceeds 8 gallons per event

This is seen as continuous flow – where a flow event just runs for hours, driving up the average gallons per flow event

The most common failure is a toilet fill valve failure, or a toilet flapper chain hanging up, causing the flapper to remain open.

Leak criteria #2 –Events per Day Threshold exceeds 50 events

This is seen as intermittent flow – where there are many events (possibly hundreds of events). In this case water continues to run and then stops running repeatedly(more than 50 times in a day).

The most common failure is a toilet flapper opening and closing.

Leak criteria #3 –Single Day High use Threshold exceeds 150 gallons per day

This is seen as high flow – where water runs for hours, driving up daily usage

The most common failure is a toilet fill valve failure, or a toilet flapper chain hanging up, causing the flapper to remain open.

Leak criteria #4 – Gallons used with no Events threshold is less than 10 gallons

This is seen as low continuous flow – where water runs for hours, but at a very low flow rate. No events indicate water is flowing continuously through the day.

The most common failure is a cracked toilet fill valve, or a toilet flapper chain that is not adjusted properly.