

CUSTOMER

Water Sample Survey

DEALER

& Questionnaire

NOTE: Please answer ALL appropriate questions to ensure accurate equipment recommendations

Send sample & form to: United Water - Attn. Water Lab

Vancouver WA 98682

12209 NE Fourth Plain Blvd Suite W



FOR LABORATORY USE ONLY

Date Received	
Report No.	

Date Completed _____

DISTRIBUTOR

Name		Name		Name	
Street		Street		Street	
Town	State/Province	Town	State/Province	Town	State/Province
Zip Code/P.C.	Email	Zip Code/P.C.	Email	Zip Code/P.C.	Email
Phone	Fax	Phone	Fax	Phone	Fax
Send completed analysis to:	Contact name	e	Via:	il address or fax numbe	ər

Bacterial analysis must be performed by your local health department.

HOW TO DRAW WATER SAMPLE

Use outlet nearest pump (not from bottom of pressure tank). Run water for five minutes or two pump cycles, then fill clean bottle to neck and cap immediately. Never use hot water. Return bottle with this completed form.

HOW TO MEASURE PUMPING RATE OF PUMP

- 1. Make certain no water is being drawn. Open spigot nearest pressure tank. When pump starts, close tap and measure time (in seconds) to refill pressure tank. This is *cycle time*.
- 2. Using a container of known volume, draw water and measure volume in gallons until pump starts again. This is *drawdown.*
- Divide drawdown by cycle time and multiply the result by 60 to arrive at the *pumping rate* in gallons per minute. Insert this figure in #3 Water System.

1. Water Source

□ City or area-wide authority

Community water system (small water system usually supplying 12 homes or fewer)

- Water comes from:
- □ Well □ Lake □ Reservoir □ River □ Unknown
- □ New private well Approx age ______months
- □ Old private well Approx age_____ months □ Private lake □ Private spring □ Private dugout
- Private cistern Other describe _____

2. Household Information

Do you now have water conditioning equipment?			
□ No □ Yes Type	Size		
□ Single family □ Multi-family	No. of units		
No. persons	No. baths		
Lawn irrigation on water syst	em?		
Indoor pool Outdoor pool	- Capacity gallons		
Water line size from source	inches		

3. Water System

Type of Pump

□ Constant Pressure □ Jet □ Submersible □ Unknown

Pumping rate of pump_____ gpm

Flessule laik				
Air to water	Bladder	Capacity		gallons Op-
erating pressure	(low/high)		/ psi	

4. Water Problems

When this sample was drawn, it was: Clear Colored Cloudy This water sample is Untreated Treated How is it treated?

PROBLEMS

Hardness (e.g. high soap usage, bathtub ring, lime deposits, et I lron Deposits - if so, is iron build-up in flush tank?	:c.)
Greasy Gritty Stringy (iron bacteria?) Color of Water - Red Orange Black	
Greenish or blue stains on sinks, tubs, etc. Pitting of fixtures and/or pipes Sand (visible particles) Sediment or silt (cloudy) ad Taste -	
Other - describe	
Bad Odor - Rotten Egg Musty Iron Odor is in - Cold Water Hot Water Both Other Problems - describe	

5. Standard Laboratory Tests

 gpg mg/l
 mg/l
 mg/l mg/l

6. Other Tests Hydrogen Sulfide (test must be performed on-

(test must be performed on-site)	
Tannins	mg/l

mg/l

7.	Special Laboratory Tests	
	Sulfates	 mg/l
	Alkalinity	 mg/l

If TDS is over 1000 ppm and hardness is less than 30% of the TDS, a total water analysis is required.

8. Explanation of Water Analysis

A. Total Hardness

This indicates the efficiency or workability of the water for everyday household use. Water in excess of 3 gpg is generally considered hard and should be softened.

B. Iron

Over 0.3 ppm of iron will cause discoloration of water and staining. Fully automatic water conditioners will correct this problem. Some extreme water situations may require filtration.

C. Manganese

Manganese is frequently encountered in iron-bearing water but to a lesser degree. Manganese is similar to iron in that it stains and clogs pipes and valves. Concentrations as low as 0.05 mg/l of manganese can cause problems.

Recommendations

Recommendations are based entirely on the information supplied and the water sample chemistry results at the time of analysis.

D. pH

A scale used to measure the acidity or alkalinity of water. A pH reading below 6.5 normally indicates highly corrosive water and neutralizing equipment should be used. A pH reading in excess of 8.5 could indicate contaminated water and generally requires bacteriological and chemical analysis.

E. Hydrogen Sulfide (H₂S)

Testing for hydrogen sulfide should occur on-site. Hydrogen sulfide imparts a rotten egg odor and taste that makes water all but undrinkable and also promotes corrosion. In addition, it can foul the resin bed of a water conditioner. The use of a water conditioner is not recommended unless the water is first treated for the removal of hydrogen sulfide.

F. Total Dissolved Solids (TDS)

A measure of the soluble solids present in the water.

G. Tannins

Tannic acid is formed by decaying organic matter. Tannins alone are not harmful, although they can affect the proper operation of a chemical free iron filter.

H. Chlorides

Over 500 ppm may impart a salty taste to water.

I. Sulfates

Over 500 ppm may impart a bitter taste to water and have a slight laxative effect.

J. Alkalinity

Caused by the presence of bicarbonates, carbonates and hydroxides. Over 500 ppm creates a "soda" taste and makes skin dry.

K. Silica

Silica (silicon dioxide) is a compound of silicon and oxygen (Si02). It is a hard, glassy mineral substance which occurs in a variety of forms such as sand, quartz, sandstone, and granite.

Recommended by _____

Date_____