HOW TO READ YOUR WATER QUALITY DATA

CompoundSInorganicsNatuAlkalinity to pH 4.5mg CaCO3LNatuAlkalinity to pH 4.5mg CaCO3LNatuAluminumNatuAmmonia, freeSomArsenicErosBariumErosBoronNatuCadmiumNatuCadniumNatuColaciumNatuChorideNatuChorideNatuCobalt-59NatuColorNatuFluorideErosHardness, totalMeatHexavalent ChromiumErosIronNatu	Likely Source B urally occurring urally occurring ne fertilizers, septic systems sion of natural deposits sion of natural deposits urally occurring urally occurring urally occurring urally occurring, pH control urally occurring urally occurring metals or minerals uschold plumbing	n/a n/a 10 2 n/a n/a 5 n/a n/a 250 100 n/a	MCLG C n/a n/a n/a 0 2 n/a n/a 5 n/a n/a 100	Unit of Measure D Mg/L mg/L mg/L ug/L mg/L ug/L mg/L mg/L mg/L mg/L mg/L ug/L	R: Low Value 30.4 0.02 ND ND ND ND ND ND ND ND ND 0.6 2.3 ND	Stange Of High Value 54.2 0.09 ND ND ND 0.11 ND 1.0 19.2 3.2	Avg. Value 40.1 0.06 ND ND ND ND ND ND ND ND 0.5 8.9 3.0	No. Of Tests 8 14 8 14 14 14 43 14 14 43 8 14
InorganicsAlkalinity to pH 4.5mg CaCO3/LNatuAluminumNatuAmmonia, freeSomArsenicErosBariumErosBoronNatuBoronNatuCadmiumNatuColaciumNatuColoz, calculatedNatuChorideNatuCobalt-59NatuColorNatuFluorideErossHardness, totalMatuHexavalent ChromiumErossIronNatu	B urally occurring urally occurring the fertilizers, septic systems sion of natural deposits sion of natural deposits urally occurring ural deposits, galvanized pipe urally occurring urally occurring	n/a n/a 10 2 n/a n/a 5 n/a n/a 250 100 n/a	n/a n/a n/a 0 2 n/a n/a 5 n/a n/a 100	mg/L mg/L ug/L ug/L mg/L ug/L mg/L ug/L mg/L ug/L ug/L ug/L	Value 30.4 0.02 ND ND ND ND ND ND ND 0.6 2.3	Value 54.2 0.09 ND ND 0.11 ND 1.0 19.2 3.2	Value 40.1 0.06 ND ND ND ND ND ND 0.5 8.9 3.0	8 14 8 14
Alkalinity to pH 4.5mg CaCO3/L Natu Aluminum Natu Aluminum Natu Ammonia, free Som Arsenic Eros Barium Eros Boron Natu Bromide Natu Cadmium Natu Calcium Natu CO2, calculated Natu Chloride Natu Cobalt-59 Natu Color Natu Fluoride Eros Hardness, total Mea Hexavalent Chromium Eros Iron Natu	urally occurring ne fertilizers, septic systems sion of natural deposits sion of natural deposits urally occurring ural deposits, galvanized pipe urally occurring, pH control urally occurring urally occurring urally occurring urally occurring urally occurring urally occurring urally occurring urally occurring urally occurring urally occurring	n/a n/a 10 2 n/a n/a 5 n/a n/a 250 100 n/a	n/a n/a 0 2 n/a n/a 5 n/a n/a n/a 100	mg/L mg/L ug/L mg/L mg/L ug/L mg/L mg/L ug/L ug/L	0.02 ND ND ND ND ND ND 0.6 2.3	0.09 ND ND 0.11 ND 1.0 19.2 3.2	0.06 ND ND ND ND ND 0.5 8.9 3.0	14 8 14 14 43 14 14 43 8 14
AluminumNatuAmmonia, freeSomArsenicErosBariumErosBoronNatuBromideNatuCadmiumNatuCalciumNatuColorNatuCobalt-59NatuColorNatuFluorideErosDissolved Solids, totalMatuFluorideErosHardness, totalMeaHexavalent ChromiumErosIronNatu	urally occurring ne fertilizers, septic systems sion of natural deposits sion of natural deposits urally occurring ural deposits, galvanized pipe urally occurring, pH control urally occurring urally occurring urally occurring urally occurring urally occurring urally occurring urally occurring urally occurring urally occurring urally occurring	n/a n/a 10 2 n/a n/a 5 n/a n/a 250 100 n/a	n/a n/a 0 2 n/a n/a 5 n/a n/a n/a 100	mg/L mg/L ug/L mg/L mg/L ug/L mg/L mg/L ug/L ug/L	0.02 ND ND ND ND ND ND 0.6 2.3	0.09 ND ND 0.11 ND 1.0 19.2 3.2	0.06 ND ND ND ND ND 0.5 8.9 3.0	14 8 14 14 43 14 14 43 8 14
Ammonia, freeSomArsenicErosBariumErosBoronNatuBromideNatuCadmiumNatuCadciumNatuColorNatuColorNatuColorNatuColorNatuFluorideNatuFluorideNatuFluorideNatuFluorideNatuFluorideNatuFluorideNatuFluorideNatuFluorideNatuFluorideNatuHardness, totalMatuHexavalent ChromiumErosIronNatu	ne fertilizers, septic systems sion of natural deposits sion of natural deposits urally occurring urally occurring ural deposits, galvanized pipe urally occurring, pH control urally occurring urally occurring urally occurring urally occurring urally occurring urally occurring urally occurring urally occurring	n/a 10 2 n/a n/a 5 n/a n/a 250 100 n/a	n/a 0 2 n/a n/a 5 n/a n/a n/a 100	mg/L ug/L mg/L mg/L ug/L ug/L mg/L ug/L ug/L	ND ND ND ND ND 0.6 2.3	ND ND 0.11 ND 1.0 19.2 3.2	ND ND ND ND ND 0.5 8.9 3.0	8 14 14 43 14 14 43 8 14
ArsenicErosBariumErosBoronNattBromideNattCadmiumNattCalciumNattCO2, calculatedNattChlorideNattChordeNattCobalt-59NattColorNattCopperHouDissolved Solids, totalNattFluorideErosHardness, totalMeaHexavalent ChromiumErosIronNatt	sion of natural deposits sion of natural deposits urally occurring urally occurring ural deposits, galvanized pipe urally occurring, pH control urally occurring urally occurring, salt water intrusion ural deposits urally occurring urally occurring urally occurring urally occurring	10 2 n/a 5 n/a 250 100 n/a	0 2 n/a n/a 5 n/a n/a n/a 100	ug/L mg/L mg/L ug/L ug/L mg/L mg/L ug/L	ND ND ND ND ND 0.6 2.3	ND ND 0.11 ND ND 1.0 19.2 3.2	ND ND ND ND 0.5 8.9 3.0	14 14 43 14 14 43 8 14
BariumErosBoronNattBromideNattCadmiumNattCalciumNattCO2, calculatedNattChlorideNattChordeNattCobalt-59NattColorNattCopperHouDissolved Solids, totalNattFluorideErosHardness, totalMatHexavalent ChromiumErosIronNatt	sion of natural deposits urally occurring urally occurring ural deposits, galvanized pipe urally occurring, pH control urally occurring urally occurring, salt water intrusion ural deposits urally occurring urally occurring urally occurring	2 n/a n/a 5 n/a n/a 250 100 n/a	2 n/a n/a 5 n/a n/a 100	mg/L mg/L ug/L ug/L mg/L mg/L ug/L	ND ND ND ND 0.6 2.3	ND 0.11 ND 1.0 19.2 3.2	ND ND ND 0.5 8.9 3.0	14 43 14 14 43 8 14
BoronNattBromideNattCadmiumNattCalciumNattCO2, calculatedNattChlorideNattChordeNattCobalt-59NattColorHouDissolved Solids, totalNattFluorideErosHardness, totalMeaHexavalent ChromiumErosIronNatt	urally occurring urally occurring ural deposits, galvanized pipe urally occurring, pH control urally occurring urally occurring, salt water intrusion ural deposits urally occurring urally occurring urally occurring metals or minerals	n/a n/a 5 n/a 250 100 n/a	n/a n/a 5 n/a n/a 100	mg/L mg/L ug/L mg/L mg/L ug/L ug/L	ND ND ND 0.6 2.3	0.11 ND ND 1.0 19.2 3.2	ND ND 0.5 8.9 3.0	43 14 14 43 8 14
BromideNatuCadmiumNatuCalciumNatuCO2, calculatedNatuChlorideNatuChoronium, totalNatuCobalt-59NatuColorNatuCopperHouDissolved Solids, totalNatuFluorideErosHardness, totalMeasHexavalent ChromiumErosIronNatu	urally occurring ural deposits, galvanized pipe urally occurring, pH control urally occurring urally occurring, salt water intrusion ural deposits urally occurring urally occurring metals or minerals	n/a 5 n/a n/a 250 100 n/a	n/a 5 n/a n/a 100	mg/L ug/L mg/L mg/L ug/L ug/L	ND ND 0.6 2.3	ND ND 1.0 19.2 3.2	ND ND 0.5 8.9 3.0	14 14 43 8 14
CadmiumNatuCalciumNatuCO2, calculatedNatuChlorideNatuChromium, totalNatuCobalt-59NatuColorNatuCopperHouDissolved Solids, totalNatuFluorideErosHardness, totalMeasHexavalent ChromiumErosIronNatu	ural deposits, galvanized pipe urally occurring, pH control urally occurring urally occurring, salt water intrusion ural deposits urally occurring urally occurring metals or minerals	5 n/a n/a 250 100 n/a	5 n/a n/a 100	ug/L mg/L mg/L mg/L ug/L	ND ND 0.6 2.3	ND 1.0 19.2 3.2	ND 0.5 8.9 3.0	14 43 8 14
CalciumNattCO2, calculatedNattChlorideNattChromium, totalNattCobalt-59NattColorNattCopperHouDissolved Solids, totalNattFluorideErosHardness, totalMeaHexavalent ChromiumErosIronNatt	urally occurring, pH control urally occurring urally occurring, salt water intrusion ural deposits urally occurring urally occurring metals or minerals	n/a n/a 250 100 n/a	n/a n/a n/a 100	mg/L mg/L mg/L ug/L	ND 0.6 2.3	1.0 19.2 3.2	0.5 8.9 3.0	43 8 14
CO2, calculatedNatuChlorideNatuChromium, totalNatuCobalt-59NatuColorNatuDissolved Solids, totalNatuFluorideErosHardness, totalMeaHexavalent ChromiumErosIronNatu	urally occurring urally occurring, salt water intrusion ural deposits urally occurring urally occurring metals or minerals	n/a 250 100 n/a	n/a n/a 100	mg/L mg/L ug/L	0.6 2.3	19.2 3.2	8.9 3.0	8 14
ChlorideNatuChromium, totalNatuCobalt-59NatuColorNatuCopperHouDissolved Solids, totalNatuFluorideErosHardness, totalMeaHexavalent ChromiumErosIronNatu	urally occurring, salt water intrusion ural deposits urally occurring urally occurring metals or minerals	250 100 n/a	n/a 100	mg/L ug/L	2.3	3.2	3.0	14
Chromium, total Nati Cobalt-59 Nati Color Nati Copper Hou Dissolved Solids, total Nati Fluoride Eros Hardness, total Mea Hexavalent Chromium Eros Iron Nati	ural deposits urally occurring urally occurring metals or minerals	100 n/a	100	ug/L	-			
Cobalt-59NatuColorNatuCopperHouDissolved Solids, totalNatuFluorideErosHardness, totalMeaHexavalent ChromiumErosIronNatu	urally occurring urally occurring metals or minerals	n/a		0	ND			
ColorNatureCopperHouDissolved Solids, totalNatureFluorideErosHardness, totalMeaHexavalent ChromiumErosIronNature	urally occurring metals or minerals					0.61	ND	14
CopperHouDissolved Solids, totalNatuFluorideErosHardness, totalMeaHexavalent ChromiumErosIronNatu	5 8		n/a	ug/L	ND	ND	ND	14
Dissolved Solids, total Natu Fluoride Eros Hardness, total Mea Hexavalent Chromium Eros Iron Natu	isehold plumbing	15	n/a	Color Units	ND	7	ND	8
FluorideErosHardness, totalMeaHexavalent ChromiumErosIronNatu	1 0	AL=1.3	1.3	mg/L	ND	0.03	ND	14
Hardness, total Mea Hexavalent Chromium Eros Iron Natu	urally occurring minerals and metals	n/a	n/a	mg/L	59	88	69	11
Hexavalent Chromium Eros Iron Natu	sion of natural deposits	2.2	n/a	mg/L	ND	ND	ND	14
Iron Natu	asure of the calcium and magnesium	n/a	n/a	mg/L	ND	2.8	ND	43
	sion of natural deposits	n/a	n/a	ug/L	ND	0.67	0.13	12
	urally occurring	300	n/a	ug/L	186	495	259	43
	sehold plumbing, lead solder	AL=15	0	ug/L	ND	ND	ND	14
	urally occurring	n/a	n/a	ug/L	3.5	4.2	3.8	14
U	urally occurring	n/a	n/a	mg/L	ND	ND	ND	43
0	urally occurring	300	n/a	ug/L	ND	ND	ND	43
2	urally occurring	n/a	n/a	ug/L	ND	ND	ND	14
	bys, coatings manufacturing, batteries	100	n/a	ug/L	ND	ND	ND	14
	ural deposits, fertilizer, septic tanks	10	10	mg/L	ND	ND	ND	14
	ilizers, solid fuel propellant, fireworks	15	5	ug/L	ND	ND	ND	8
1	led to keep iron in solution	n/a	n/a	mg/L	ND	0.36	0.29	43
1	asure of water acidity or alkalinity	n/a	n/a	pH Units	6.5	8.2	7.1	8
1 /	asure of water acidity or alkalinity	n/a	n/a	pH Units	7.0	8.5	7.4	8
	urally occurring	n/a	n/a	mg/L	1.04	1.44	1.23	43
Silicon Natu Sodium Natu		n/a	n/a	mg/L	4.0	4.4	4.2 19.8	14

A

<u>DETECTED COMPOUNDS</u> - compounds found during testing include naturally occurring compounds and contaminants. (On page 7 you will find the list of compounds that were not found in our drinking water).

LIKELY SOURCE - where the detected compound might come from.



B

MAXIMUM CONTAMINANT LEVEL (MCL) - the highest amount of a compound allowed in drinking water.

MAXIMUM CONTAMINANT LEVEL GOAL (MCLG) - there is no known or expected health risk for a compound in drinking water below this level.

HOW TO READ YOUR WATER QUALITY DATA



<u>UNITS OF MEASURE</u> - metric units used to describe the amount of the compound present (see chart below for definitions).

DISTRIBUTION AREA

SCWA's service area, all the areas we supply water to, is divided into 27 distinct geographical areas called Distribution Areas. Each area is numbered. The map on pages 42 and 43 shows the boundaries of each area.

On pages 33 to 40 is the Distribution Area Index which lists all SCWA Distribution Areas by town. Some towns have more than one Distribution Area so please read carefully. Once you know the Distribution Area number for your home, school, business or other area of interest, you can then find the water quality results in the tables located on pages 44 through 53.



RANGE OF READINGS FOR DETECTED COMPOUNDS

Low Value - the lowest amount of the chemical found in all water samples collected during the year for the distribution area noted.

High Value - the highest amount of the chemical found in all water samples collected during the year for the distribution area noted.

<u>Average Value</u> - the average amount of the chemical found in all the water samples collected during the year for the distribution area noted. This is the amount of the chemical that would typically be present in your drinking water on any given day during the year.

No. of Tests - the total number of water samples collected for the chemical during the year in the distribution area noted.

Smaller distribution areas that have few wells will have fewer samples collected during the year than large distribution areas with many wells.



TYPES OF DETECTED COMPOUNDS

Broad categories based on chemical characteristics.

Water Quality Data Key Terms and Definitions

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as possible.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Micrograms per liter (ug/L): corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

Milligrams per liter (mg/L): corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

Nanograms per liter (ng/L): corresponds to one part of liquid to one trillion parts of liquid (parts per trillion - ppt).

Picocuries per liter (pCi/L): Picocuries per liter is a measure of the radioactivity in water.

Nephelometric Turbidity Unit (NTU): A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Micromhos per centimeter (umho/cm): A measure of the total amount of naturally occurring minerals in the water.

n/a: Not Applicable

ND: Not Detectable at testing limit.