# **The Sources of Your Water**

Water is supplied by two providers, Elk Grove Water District (EGWD) and Sacramento County Water Agency (SCWA), as follows:

Service Area 1 – Local groundwater from EGWD

Service Area 2 - Local groundwater from SCWA, with periodic surface water from SCWA

Some wells in both Service Area 1 and 2 are treated to remove arsenic, iron and manganese. These treatment facilities also remove amounts of other similar constituents, such as barium. Some of the data presented in this report reflects the well water before treatment, so the water that you are provided may have lower levels of some of the reported constituents after treatment.

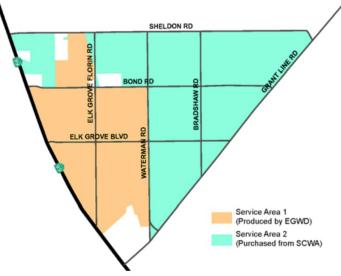
Source water assessments have been conducted for all the water sources to enable EGWD and SCWA to understand the activities that have the greatest potential for contaminating the drinking water supplies. The EGWD groundwater sources were assessed in 2003 and 2009. The SCWA groundwater sources were last assessed in 2008. These assessments were conducted in accordance with State Board guidelines and copies of the complete assessments are available for review at the respective agency offices.

EGWD and SCWA conducted assessments of their local groundwater wells. There have been no detections of contaminants in the wells that are associated with any activities, but the wells are considered most vulnerable to gas stations, boat services, chemical/petroleum pipelines and storage, dry cleaners, electronic manufacturing, fleet/truck/bus terminals, grazing, historic waste dumps/landfills, leaking underground storage tanks, other animal pesticides/fertilizer/petroleum operations, storage transfer areas, photo processing, plastics/ synthetics producers, research laboratories, agricultural/irrigation wells, oil/gas wells, wood preserving/treating, and sewer collection systems.

SCWA conducted the evaluation of the Sacramento River surface water source. It was found to be most vulnerable to potential contamination from recreation activities, including both body and non-body contact, illegal activities and dumping, stormwater runoff, industrial permitted discharges, and leaking underground storage tanks. The source water is treated using conventional filtration and disinfection that is designed to remove any contaminants.

Service Area 2 is provided treated water from SCWA that is fluoridated. In 2018 fluoride was at optimal levels in the SCWA distribution system. The State Board advised SCWA to implement the CDC's recommended optimal fluoride content of 0.7 mg/L and control range of 0.6 mg/L - 1.2 mg/L. Information about fluoridation, oral health and current issues is available from:

https://www.waterboards.ca.gov/drinking\_wa ter/certlic/drinkingwater/Fluoridation.html.



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ELK GROVE FLORIN RD	D D D D D D D D D D D D D D D D D D D	and the same of th
	WATERMAA B DATE BANG	Service Area 1 (Produced by EGWD) Service Area 2 (Purchased from SCWA)

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CONSTITUENT UNITS PHG or (MCLG) or [MRDLG]		MCL or [MRDL]	RANGE	EGWD Service Area 1 (Groundwater)           RANGE         AVERAGE         YEAR SAMPLED		RANGE AVERAGE YE		Groundwater) YEAR SAMPLED	EGWD Service Area 2 (SCWA S		Surface Water) YEAR SAMPLED	MAJOR SOURCES		
Arsenic	PPB	0.004	10	ND - 8.7	5.3	2017 - 2018	ND - 6.2	ND	2015 - 2018	ND	ND	2015 - 2018	Erosion of natural deposits; runoff from orchards	
arium	PPM	2	10	ND - 0.13	ND	2017 - 2018	ND - 0.33	ND ND	2015 - 2018	ND ND	ND ND	2015 - 2018	Erosion of natural deposits; runon from orchards  Erosion of natural deposits; wastes from metal refineries	
hromium (Total)	PPB	(100)	50	ND - 0.13	ND ND	2017	ND - 0.33	ND ND	2015 - 2018	ND ND	ND ND	2015 - 2018	Erosion of natural deposits; discharge from pulp mills and chrome plating	
inomium (rotai)	FFB	(100)	50	ND	ND	2017	ND-11	IND	2013 - 2016	ND	IND	2015 - 2016	Erosion of natural deposits; discharge from electroplating factories, leather	
lexavalent Chromium	PPB	0.02	N/A (a)	ND - 5.4	3.6	2017	ND - 9.9	1.7	2015 - 2018	ND	ND	2015 - 2018	tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities	
luoride	PPM	1	2	ND - 0.12	ND	2017	ND - 0.4	0.14	2018	ND	ND	2018	Erosion of natural deposits; water additive that promotes strong teeth	
ickel	PPB	12	100	ND	ND	2017	ND - 14	ND	2015 - 2018	ND	ND	2015 - 2018	Erosion of natural deposits; discharge from metal factories	
itrate (as NI)	PPM	10	10	ND - 4.2	2.3	2017 - 2018	ND - 3.4	0.5	2018	ND	ND	2018	Runoff and leaching from fertilizer use, leaching from septic tanks and sewag	
itrate (as N)	12 20000	00000	20000		0000000	6000-04000 00000000000000000000000000000	500 mass   100 mass	1000			0.0000	98570400000000	erosion of natural deposits	
ross Alpha	pCi/L	(0)	15	ND - 6.3	ND	2017	ND - 8.1	ND	2006 - 2018	ND	ND	2006 - 2018	Erosion of natural deposits	
adium 226	pCi/L	0.05	5 (b)	ND - 1.1	ND	2017	ND - 2.42	ND	2006 - 2009	ND	ND	2006 - 2009	Erosion of natural deposits	
adium 228	pCi/L	0.019	5 (b)	1.3 - 2.9	2.4	2017	NR	N/A	N/A	NR	N/A	N/A	Erosion of natural deposits	
ranium	pCi/L	0.43	20	ND - 2.2	1.0	2017	ND - 2.7	ND	2006 - 2018	ND	ND	2006 - 2018	Erosion of natural deposits	
ontrol of Disinfection By-Product	PPM	N/A	TT = 2	NR	N/A	N/A	NR	N/A	N1//4	0.94 - 1.3	1.05	2010		
recursors (TOC) (treated water) (c)	PPM	N/A	11=2	NR	N/A	N/A	NR	N/A	N/A	0.94 - 1.3 1.05 2018		2018	Various natural and manmade sources	
CONSTITUENT	UNITS	PHG OR (MCLG)	MCL	LEVEL	FOUND	YEAR SAMPLED	LEVEL	. FOUND	YEAR SAMPLED	LEVEL FOUND YEAR SAMPLED		YEAR SAMPLED	MAJOR SOURCES	
	NTU	N/A	TT = 1 NTU	1	NR.	N/A	N	IR.	N/A	0.111 (d) 2018 100% (e) 2018		2018		
urbidity (c)	% Samples	N/A	TT = ≤0.3 NTU	N	NR .	N/A	N	IR.	N/A			2018	Soil runoff	
istribution System Data for EGWD (/	ncludina both	Service Area 1 and S	Service Area 2)											
		PHG or (MCLG) or										_		
CONSTITUENT	UNITS	[MRDLG]	MCL or [MRDL]		RANGE			AVERAGE		YEAR SAMPLED		D	MAJOR SOURCES	
hlorine Residual	PPM	[4]	[4]	0.30 - 1.73		1.05				2018		Drinking water disinfectant added for treatment		
otal Trihalomethanes	PPB	[4] N/A	[4] 80	ND - 37		9.5				2017 - 2018		By-product of drinking water disinfection		
aloacetic Acids	PPB	N/A	60	ND - 26			6.5			2017 - 2018		By-product of drinking water disinfection		
							_	, i						
CONSTITUENT	UNITS	PHG OR (MCLG)	AL	90th PERCENTILE		# OF SITES SAMPLED/# EXCEED AL			YEAR SAMPLED			MAJOR SOURCES		
Connor				0.25		32/0			2016					
Copper	PPM	0.3	1.3		0.25			32/0			2016		Internal corrosion of household plumbing systems; erosion of natural depo	
CONSTITUENT	UNITS	0.3 PHG OR (MCLG)	1.3	HIGHEST PE	0.25 RCENTAGE OF POS	SITIVE SAMPLES	# MON	32/0 ITHS WITH POSITIV	E SAMPLE		2016 YEAR SAMPLE	D	Internal corrosion of household plumbing systems; erosion of natural depo	
				HIGHEST PE		SITIVE SAMPLES	# MON		E SAMPLE			D	Internal corrosion of household plumbing systems; erosion of natural depositions of the system of th	
CONSTITUENT  Total Coliform Bacteria	UNITS % Samples	PHG OR (MCLG)	MCL No more than 5% monthly samples positive		2.0%	SITIVE SAMPLES	#MON	ITHS WITH POSITIV	E SAMPLE		YEAR SAMPLE	D	MAJOR SOURCES	
CONSTITUENT  Total Coliform Bacteria  DETECTED SECONDARY DRIN	UNITS % Samples KING WAT	PHG OR (MCLG) (0) ER CONSTITUE	MCL No more than 5% monthly samples positive NTS (Regulated fo	r aesthetic quali	2.0%			ITHS WITH POSITIV		EGWD Ser	YEAR SAMPLE		MAJOR SOURCES  Naturally present in the environment	
CONSTITUENT otal Coliform Bacteria	UNITS % Samples	PHG OR (MCLG)	MCL No more than 5% monthly samples positive	r aesthetic quali	2.0%			ITHS WITH POSITIV		EGWD Ser	YEAR SAMPLE		MAJOR SOURCES	
CONSTITUENT  otal Coliform Bacteria  ETECTED SECONDARY DRIN  CONSTITUENT	UNITS % Samples KING WAT	PHG OR (MCLG) (0) ER CONSTITUE	MCL No more than 5% monthly samples positive NTS (Regulated fo	r aesthetic quali	2.0% ities) Service Area 1 (Gro	undwater)	EGWD Sei	1 rvice Area 2 (SCWA	. Groundwater)		YEAR SAMPLEI 2018  rvice Area 2 (SCWA	Surface Water)	MAJOR SOURCES  Naturally present in the environment	
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CONSTITUENT  otal Coliform Bacteria  ETECTED SECONDARY DRIN  CONSTITUENT  on anganese	WING WAT  UNITS  WING WAT  UNITS	PHG OR (MCLG)  (0)  ER CONSTITUE  PHG or (MCLG)	MCL No more than 5% monthly samples positive NTS (Regulated fo	r aesthetic quali EGWD RANGE ND - 310 (f)	2.0%  ities)  Service Area 1 (Gro  AVERAGE  ND  ND	year sampled 2017 - 2018 2017 - 2018	EGWD Set  RANGE  ND - 160	1 rvice Area 2 (SCWA AVERAGE ND	YEAR SAMPLED 2017 - 2018 2017 - 2018	RANGE ND	YEAR SAMPLEI 2018  vice Area 2 (SCWA  AVERAGE  ND	Surface Water)  YEAR SAMPLED  2017 - 2018  2017 - 2018	MAJOR SOURCES  Naturally present in the environment  MAJOR SOURCES  Leaching from natural deposits; industrial wastes  Leaching from natural deposits	
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**A Note for Sensitive Populations** 

Safe Drinking Water Hotline (1-800-426-4791).

**Cryptosporidium** in Surface Water

Some people may be more vulnerable to contaminants in drinking water

than the general population. Immuno-compromised persons such as

persons with cancer undergoing chemotherapy, persons who have

undergone organ transplants, people with HIV/AIDS or other immune

system disorders, some elderly, and infants can be particularly at risk from

infections. These people should seek advice about drinking water from

their health care providers. USEPA/Centers for Disease Control (CDC)

guidelines on appropriate means to lessen the risk of infection by

Cryptosporidium and other microbial contaminants are available from the

Cryptosporidium is a microbial pathogen found in surface water

throughout the United States. Although filtration removes

Cryptosporidium, the most commonly-used filtration methods cannot

guarantee 100 percent removal. SCWA periodically provides treated

surface water to Service Area 2 and their monitoring indicates the

low-level presence of these organisms in the source water, the

Sacramento River. The water is treated to remove at least 99 percent of the

organisms. Current test methods do not allow SCWA to determine if the

(a)—There is currently no MCL for hexavalent chromium. The previous MCL of 10 PPB was withdrawn on September 11, 2017. For more information, please visit the State Board's website: www.waterboards.ca.gov/drinking\_water/Certlic/drinkingwater/Chromium6.shtml. (b)--For combined radium-226 and radium-228.

(c)—Only surface water sources must comply with PDWS for Control of Disinfection By-Product Precursors and turbidity, Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of the effectiveness of the filtration system.

- (d)--Value is highest single measurement during 2018.
- (e)--Value is lowest monthly percentage of samples meeting turbidity limit during 2018.
- (f)-Iron was detected in 1 out of 141 well samples at a concentration greater than the MCL of 300 ppb; all other sample concentrations at all wells were less than the MCL. Compliance is determined by a running annual average of four quarterly samples. The running annual average of quarterly samples at all wells was ND. Thus, all wells were in compliance with the iron MCL. The State allows monitoring of some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative, are more than one year old.

organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people, infants and small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

# **Water Quality Definitions**

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Public Health Goal (PHG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. PHG's are set by the California Environmental Protection Agency.

> 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 are set by the USEPA.

#### Maximum Residual Disinfectant Level (MRDL) -

The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Primary Drinking Water Standard (PDWS) - MCLs, MRDLs and TT's for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.

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

**PPM** - Parts per million

**PPB** - Parts per billion

pCi/L - Picocuries per liter

NTU - Nephelometric turbidity unit

μS/cm - One millionth of a Siemen per centimeter

TON - Threshold odor number

N/A - Not applicable

**ND** - Not detected

**NR** - Not required

# **Unregulated Contaminant Monitoring**

USEPA uses the Unregulated Contaminant Monitoring Rule (UCMR) to collect data for constituents suspected to be present in drinking water that do not have drinking water standards to determine whether the constituents need to be regulated. EGWD conducted sampling required by the third UCMR (UCMR 3) during 2014 and few constituents were detected; none at any level of human health concern. SCWA also conducted sampling during 2013 and 2014 required by UCMR 3 and several constituents were detected; only chlorate resulted in detection above the associated human health advisory and this is probably attributable to the disinfection process. EGWD initiated sampling required by the fourth UCMR (UCMR 4) in December 2018 and few constituents were detected.

Constituent	EGWD Service Area 1 (Groundwater)		EGWD Service Area 2 (SCWA Groundwater)			vice Area 2 rface Water)	Human Health Advisory	Potential Sources			
	RANGE (ug/L)	AVERAGE (ug/L)	RANGE (ug/L)	AVERAGE (ug/L)	RANGE (ug/L)	AVERAGE (ug/L)					
Unregulated Contaminant Monitoring Rule 3											
HCFC-22 (chlorodifluoromethane)	ND - 0.09	ND	ND	N/A	ND	N/A	None	Refrigerant, solvent, and propellant			
Molybdenum	ND	N/A	ND - 2	ND	ND	N/A	USEPA Lifetime Health Advisory - 40 ug/L	Naturally-occurring metal			
Vanadium	ND - 29	12.3	ND - 34	15	ND	N/A	State Board Notification Level - 50 ug/L	Naturally-occurring metal			
Strontium	250 - 410	348	40 - 500	218	68 - 140	101	USEPA Lifetime Health Advisory - 4,000 ug/L	Naturally-occurring metal			
Bromomethane	ND	N/A	ND - 2.1	ND	ND	N/A	USEPA Lifetime Healh Advisory - 10 ug/L	Fumigant			
Chloromethane	ND	N/A	ND - 1	ND	ND	N/A	USEPA Child 10 - Day Healh Advisory - 400 ug/L	Foaming agent and possible by-product of water treatment			
Chlorate	20 - 190	111	31 - 1,200*	179	100-300	163	State Board Notification Level - 800 ug/L	Oxidant used in pyrotechnics, defoliant, and possible by-product of water treatment			
Unregulated Contaminant Monitoring Rule 4											
Dibromoacetic acid	0.35	0.35	N/A	N/A	N/A	N/A	None	Byproduct of drinking water disinfection			
Germanium	1.3	1.3	N/A	N/A	N/A	N/A	None	Natural deposits			
Manganese	8.2	8.2	N/A	N/A	N/A	N/A	State Board Notification Level - 500 ug/L	Natural deposits			
Bromide	57 - 120	88.5	N/A	N/A	N/A	N/A	None	Natural deposits			

<sup>\*</sup>SCWA's Equine Well (W-83) exceeded the State Board Notification Level for chlorate. The well was taken off-line and repaired. When all repairs were completed a confirmation sample was collected and the result was ND.

#### **General Information on Lead**

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. EGWD is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at http://www.epa.gov/lead.

EGWD tests customer tap samples every three years for lead and over ninety-five percent of samples are non-detectable and therefore not reported in the data table.

Nine schools within the EGWD service area requested testing for lead in 2017: Edna Batey Elementary School, Elk Grove Elementary School, Ellen Feickert Elementary School, Florence Markofer Elementary School, James A. McKee Elementary School, Jessie Baker Elementary School, Katherine L. Albiani Middle School, Elk Grove High School, and Pleasant Grove High School. All results were less than the action level of 15 PPB. Contact each school for additional information regarding test results.

# **General Information on Arsenic**

While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The USEPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

#### **Get More Information**

Learn more about the EGWD by visiting www.egwd.org, or by attending a monthly public Board Meeting held every 3rd Wednesday of the month at 6:30pm. The District offices are open Monday through Thursday from 7:30am to 5:00pm, and every other Friday from 7:30am to 4:00pm. District offices are located at 9257 Elk Grove Blvd., Elk Grove, California, 95624. If you have any questions please call Mark Madison, General Manager at (916) 685-3556.



Florin Resource Conservation Disctrict

9257 Elk Grove Blvd | Elk Grove, CA 95624

# 2018 Drinking Water Consumer Confidence Report Elk Grove Water District

A Department of the Florin Resource Conservation District Produced in compliance with State Water Resources Control Board Division of Drinking Water guidance

This report contains important information about your drinking water. Translate it, or speak with someone who understands it. Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

# **General Manager's Message**

Every community water system is required by law to provide its customers with a water quality report also known as a Consumer Confidence Report (CCR) by July 1 of each year. This report lists the regulated constituents sampled for in our water, as well as some unregulated constituents and the level at which they were most recently detected.

Elk Grove Water District (EGWD) prides itself on providing reliable, high quality drinking water, and an exceptional level of customer care. Information regarding Sacramento County Water Agency's water quality is also provided in this report because a portion of the EGWD's service area receives water purchased under a wholesale contract. Please refer to the map on the next page to determine which agency produces your water.

Throughout the year, hundreds of samples are taken by staff and analyzed by a certified and independent laboratory. The results from these tests are then directly submitted to the State Water Resources Control Board (State Board) Division of Drinking Water. As Elk Grove's hometown water supplier, it is a privilege to serve you. If you have any questions about this report, call (916) 685-3556.

-Mark J. Madison

## What's in Your Water?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

## Contaminants that may be present in the source water include:

- Microbial contaminants, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- Radioactive contaminants that can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

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