

# SACRAMENTO COUNTY WATER AGENCY

## 2017 WATER QUALITY REPORT - ARDEN PARK VISTA, NORTHGATE & SOUTHWEST TRACT (See Note #1)

### DETECTED PRIMARY STANDARDS - Mandatory Health-Related Standards Established by the State Water Resources Control Board (State Board)

CONSTITUENT	SAMPLE DATE:	UNITS	PHG OR (MCLG) or (MRDLG)	MCL OR (MRDL)	MAJOR SOURCES IN DRINKING WATER	ARDEN PARK VISTA		NORTHGATE		SWT (SEE #2)	
						RANGE (LO-HI)	WEIGHTED AVERAGE	RANGE (LO-HI)	WEIGHTED AVERAGE	RANGE (LO-HI)	WEIGHTED AVERAGE
<b>INORGANIC CONTAMINANTS</b>											
Arsenic	2015 - 2017	PPB	0.004	10	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes.	ND - 3.5	ND	3.7 - 5.2	4.2	ND - 6	2.3
Barium	2015 - 2017	PPM	2	1	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits.	ND	ND	ND - 0.15	0.14	ND - 0.26	0.13
Chromium (Total Cr)	2015 - 2017	PPB	(100)	50	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits.	ND	ND	ND - 11	4.85	ND - 11	ND
3 Hexavalent Chromium	2017	PPB	0.02	n/a	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits.	ND - 5.2	2.2	ND - 11	6.1	ND - 11	5.7
4 Fluoride (Natural Source)	2017	PPM	1	2	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.	ND - 1.4	ND	0.13 - 0.19	0.13	ND	ND
Nitrate (as N)	2016 - 2017	PPM	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits.	ND - 5.3	1.4	0.5 - 4.1	1.7	ND - 7	3.7
<b>REGULATED ORGANIC CHEMICALS</b>											
Tetrachloroethylene (PCE)	2013 - 2017	PPB	0.06	5	Discharge from factories, dry cleaners and auto shops (metal degreaser).	ND	ND	ND	ND	ND - 0.94	ND
Trichloroethylene (TCE)	2013 - 2017	PPB	1.7	5	Discharge from metal degreasing sites and other factories.	ND	ND	ND	ND	ND - 1.1	ND
<b>RADIOACTIVE CONTAMINANTS</b>											
Gross Alpha Activity	2014 - 2017	pCi/L	(0)	15	Erosion of natural deposits.	ND - 3.6	ND	ND - 3	ND	ND - 10.8	7.3
5 Uranium	2012 - 2017	pCi/L	0.43	20	Erosion of natural deposits.	ND - 1.8	ND	ND - 3.5	ND	ND - 6.3	4.5
Radium 228	2006 - 2011	pCi/L	0.019	n/a	Erosion of natural deposits	ND	ND	ND	ND	ND - 1.35	ND
<b>DISTRIBUTION SYSTEM</b>											
Chlorine Residuals	2017	PPM	[4]	[4.0]	Drinking water disinfectant added for treatment.	ND - 1.3	0.9	0.58 - 1.35	1.22	0.31 - 1.4	0.89
6 Total Trihalomethanes	2017	PPB	n/a	80	Byproduct of drinking water disinfection.	ND - 1	0.2	ND - 1.7	0.8	1.4	1.4
7 Haloacetic Acids	2017	PPB	n/a	60	Byproduct of drinking water disinfection.	ND	ND	ND	ND	ND	ND
8 Fluoride (Treatment Related- Distribution)	2017	PPM	1	2	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.	0.68 - 0.9	0.76	NA	NA	NA	NA
<b>MICROBIOLOGICAL CONTAMINANTS</b>											
9 Total Coliform Bacteria	2017	# of Positive Samples	(0)	>1	Naturally present in the environment.	0		0		0	

### SECONDARY STANDARDS - Aesthetic Standards Established by the State Water Resources Control Board (State Board)

CONSTITUENT	SAMPLE DATE:	UNITS	PHG OR (MCLG) or (MRDLG)	MCL OR (MRDL)	MAJOR SOURCES IN DRINKING WATER	Arden Park Vista		Northgate		Southwest Tract	
						RANGE	WTD. AVG.	RANGE	WTD. AVG.	RANGE	WTD. AVG.
Color	2009 - 2017	Units	n/a	15	Naturally-occurring organic materials.	ND	ND	ND	ND	ND - 5	0.1
Iron	2009 - 2017	PPB	n/a	300	Leaching from natural deposits; industrial wastes.	ND	ND	ND - 100	ND	ND - 230	ND
Manganese	2009 - 2017	PPB	n/a	50	Leaching from natural deposits.	ND - 38	ND	ND	ND	ND - 550	23
Odor-Threshold	2009 - 2017	Units	n/a	3	Naturally-occurring organic materials.	ND	ND	ND	ND	ND - 2	ND
Turbidity	2009 - 2017	Units	n/a	5	Soil runoff.	ND - 0.25	ND	ND - 0.46	0.23	ND - 2	ND
Zinc	2009 - 2017	PPM	n/a	5	Runoff/ leaching from natural deposits; industrial wastes	ND	ND	ND	ND	ND - 0.6	ND
Total Dissolved Solids	2009 - 2017	PPM	n/a	1000	Runoff/leaching from natural deposits.	94 - 320	203	180 - 490	303	47 - 450	330
Specific Conductance (E.C.)	2009 - 2017	umhos/cm	n/a	1600	Substances that form ions when in water; seawater influence.	90 - 460	277	260 - 660	451	64 - 660	469
Chloride	2009 - 2017	PPM	n/a	500	Runoff/leaching from natural deposits; seawater influence.	2.1 - 25	10.8	18 - 76	40	ND - 77	28
Sulfate	2009 - 2017	PPM	n/a	500	Runoff/leaching from natural deposits; industrial wastes.	2.3 - 24	10.5	3.9 - 29	16.8	ND - 40	22

### OTHER CONSTITUENTS ANALYZED

pH	2009 - 2017	Units	n/a	MO		7.4 - 8	7.8	7.9 - 8	8.0	NR	NR
Total Hardness (as CaCO3)	2009 - 2017	PPM	n/a	MO	Due to chemicals naturally occurring in the soil below the earth's surface.	36 - 220	123.4	71 - 350	164.2	24 - 360	233
Total Hardness (as CaCO3)	2009 - 2017	Grains	n/a	MO	Due to chemicals naturally occurring in the soil below the earth's surface.	2.1 - 12.9	7.2	4.2 - 20.5	9.6	1.4 - 21	13.6
Total Alkalinity (as CaCO3)	2009 - 2017	PPM	n/a	MO	Due to chemicals naturally occurring in the soil below the earth's surface.	39 - 180	115.6	90 - 250	149.6	NR	NR
Bicarbonate (as HCO3)	2009 - 2017	PPM	n/a	MO	Due to chemicals naturally occurring in the soil below the earth's surface.	48 - 220	138.7	110 - 300	180.6	NR	NR
Sodium	2009 - 2017	PPM	n/a	MO	Due to chemicals naturally occurring in the soil below the earth's surface.	4 - 15	10.6	24 - 33	27.7	1.8 - 29	19
Calcium	2009 - 2017	PPM	n/a	MO	Due to chemicals naturally occurring in the soil below the earth's surface.	6.2 - 41	24.8	14 - 63	31.9	NR	NR
Magnesium	2009 - 2017	PPM	n/a	MO	Due to chemicals naturally occurring in the soil below the earth's surface.	4.9 - 28	14.3	8.7 - 47	19.9	NR	NR

### LEAD & COPPER (See Note 10 & 11)

CONSTITUENT	SAMPLE DATE:	UNITS	PHG OR (MCLG)	ACTION LEVEL	MAJOR SOURCES IN DRINKING WATER	NUMBER OF SAMPLES		90TH % LEVEL DETECTED		NUMBER EXCEEDING AL	
						ARDEN PARK VISTA	NORTHGATE	ARDEN PARK VISTA	NORTHGATE	ARDEN PARK VISTA	NORTHGATE
APV	Lead	2016	PPB	(0.2)	15	Internal corrosion of household water plumbing systems; discharges from industrial manufactures; erosion of natural deposits.	35		ND		1
	Copper	2016	PPM	(0.3)	1.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.	35		0.19		0
NORTHGATE	Lead	2016	PPB	(0.2)	15	Internal corrosion of household water plumbing systems; discharges from industrial manufactures; erosion of natural deposits.	18		ND		0
	Copper	2016	PPM	(0.3)	1.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.	18		0.36		0
SWT	Lead	2016	PPB	(0.2)	15	Internal corrosion of household water plumbing systems; discharges from industrial manufactures; erosion of natural deposits.	5		ND		0
	Copper	2016	PPM	(0.3)	1.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.	5		0.054		0

### UNREGULATED CONTAMINANT MONITORING RULE (UCMR 3) - Established by USEPA (See 12)

CONSTITUENT	SAMPLE DATE:	UNITS	PHG OR (MCLG)	Notification Level	HEALTH EFFECTS LANGUAGE	Arden Park Vista		Northgate		Southwest Tract	
						RANGE	WTD. AVG.	RANGE	WTD. AVG.	RANGE	WTD. AVG.
Chloroform (Trichloromethane)	2013 - 2017	PPB	n/a	n/a		ND	ND	ND	ND	ND - 3.8	ND
Dichlorodifluoromethane (Freon 12)	2017	PPM	n/a	1	Some people who drink water containing dichlorodifluoromethane far in excess of the notification level may experience neurological and cardiac effects. Long-term exposures to dichlorodifluoromethane resulted in smaller body weight in laboratory animals.	NR	NR	NR	NR	ND - 0.0014	ND
Trichloropropane (1,2,3-TCP)	2017	PPT	n/a	5	Some people who use water containing 1,2,3-trichloropropane in excess of the notification level over many years may have an increased risk of getting cancer, based on studies in laboratory animals.	ND	ND	ND	ND	ND - 37	ND
Vanadium	2015	PPB	n/a	50	The babies of some pregnant women who drink water containing vanadium in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals.	NR	NR	NR	NR	ND - 23	15
Strontium	2014	PPB	n/a	n/a		NR	NR	NR	NR	48 - 730	426
Chlorate	2017	PPB	n/a	800		NR	NR	NR	NR	ND - 570	181
Molybdenum	2015	PPB	n/a	n/a		NR	NR	NR	NR	ND - 3	0.9

#### NOTES:

- The state allows SCWA to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently.
- Southwest Tract (SWT) receives its water from Fruitridge Vista Water Company which received 0.04% of its water from the City of Sacramento. Data which is reported by Fruitridge Vista Water Company for 2017 does include water quality data from the City of Sacramento. Please call Beth Arnoldy with Fruitridge Vista Water Company at (916) 443-2607 with questions regarding this data.
- There is currently no MCL for hexavalent chromium. The previous MCL of 10 PPB was withdrawn on September 11, 2017. Chromium-6 is one of the forms of chromium making up total chromium which has a California MCL of 50 PPB. For more information about Chromium-6, please visit the State Water Resources Control Board's website: [www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/Chromium6.shtml](http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Chromium6.shtml)
- On November 14, 2017, a Stewart Well (W-08) water sample for fluoride returned 1.4 PPM. The analysis result did not exceed the MCL of 2 PPM, but was much higher than the average fluoride sample taken at any of the wells in the Arden Park Vista water system. The weighted average of natural fluoride monitoring in Arden Park Vista is non-detect. Another fluoride sample (taken on 12/22/2017 from the raw, untreated water at Stewart Well) returned non-detect.
- The State Water Resources Control Board (State Board) allows the measurement of gross alpha radiation as a surrogate for Uranium.
- Total Trihalomethanes = sum of results for Chloroform, Bromoform, Dibromochloromethane, & Bromodichloromethane.
- Haloacetic Acids = sum of results for Bromochloroacetic acid, Dibromoacetic acid, Dichloroacetic acid, Monochloroacetic acid, & Trichloroacetic acid
- The Arden Park Vista water system's facilities are fluoridated to reduce tooth decay in children. Studies show that water fluoridation reduces tooth decay by 20 to 40 percent. The California State Water Resources Control 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 [http://waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/Fluoridation.shtml](http://waterboards.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.shtml).
- On Systems that collect less than 40 samples per month, the Total Coliform Bacteria MCL is no more than one (1) monthly sample return total coliform positive, per the Total Coliform Rule (TCR). A positive TC sample triggers collection of samples for E. coli at the source (i.e., groundwater wells) per the federal Ground Water Rule (GWR). In 2017, all samples taken per the GWR returned negative (absent) for E. coli.
- SCWA Level for Lead & Copper is measured at the 90th percentile sampling of thirty-five (35) homes at the tap for Arden Park Vista (APV), sixteen (16) for Northgate & five (5) for Southwest Tract (SWT).
- Effective January 18, 2017, The State Water Resources Control Board requires the Sacramento County Water Agency (SCWA) to provide one-time assistance with lead sampling to all public, private and/ or charter schools that submit a written request to and are served water by SCWA. In 2017, SCWA did not receive requests for lead sampling at schools served by the Arden Park Vista or Southwest Tract water systems.
- Unregulated Contaminants Monitoring Rule (UCMR 3 / 2013 - 2015 Monitoring) with notification levels help to determine where certain contaminants occur and whether they need to be regulated. All contaminants tested for during the screening survey conducted in the Arden Park Vista water system returned non-detect. The Northgate water system was not required to sample for the UCMR3; however, Chloroform and Trichloropropane (1,2,3-TCP) are regularly monitored by SCWA at all of its groundwater wells. For more information on the levels of unregulated contaminants found in Fruitridge Vista Water Company's samples, please call Fruitridge Vista Water Company at (916) 443-2607.

For more detailed information regarding SCWA water quality, call Aaron Wyley @ (916) 875-5815.

#### State Mandated Information for Nitrate, Arsenic & Lead:

##### Nitrate:

Nitrate in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity.

##### 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 U.S. Environmental Protection Agency 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.

##### 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. The Sacramento County Water Agency 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 do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants. 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 or at <http://www.epa.gov/lead>.