Este reporte contiene información muy importante de su salud y el agua que toma. Tradúzcalo por favor ó hable con alguien que lo entienda bien.

Este relatório contém informações importantes sobre sua água potável. Por favor traduza-o ou fale com alguém que entenda o que está escrito.

Mahalaga ang impormasyong ito. Mangyaring ipasalin ito.

Dieser Report enthält wichtige Informationen Åber Ihr Trinkwasser. übersetzen Sie ihn bitte oder sprechen Sie mit jemand, das ihn versteht.

Ce rapport contient de l'information importante concernant votre eau potable. Veuillez le traduire, ou parlez-en avec quelqu'un qui le comprend.

此份有關你的食水報告,內有重要資料和訊息,請找他人為你翻譯及解釋清楚。

Chi tiết này thật quan trọng.
Xin nhờ người dịch cho quý vị.

यह सूचना महत्वपूर्ण है ।
कृपा करके किसी से :सका अनुवाद करायें ।

このレポートはあなたの飲料水に関する重要な情報が含まれています。
翻訳するか、レポートの内容を理解できる方に説明してもらってください。

이 안내는 매우 중요합니다.
본인을 위해 번역인을 사용하십시요.

Данный рапорт содержит важную информацию о вашей питьевой воде. Переведите его или проконсультируйтесь с тем, кто его понимает.

این اطلاعیه شامل اطلاعات مهمی راجع به آب آشامیدنی است. اگر نمیتوانید این اطلاعات را بزبان انگلیسی بخوانید لطفا از کسی که میتواند یاری بگیرید تا مطالب را برای شما به فارسی ترجمه کند.

"هذا ألتقرير يحتوي على معلوماً ت مهمّة تتعلق بمياه ألشفة (أو ألشرب).
ترجم ألتقرير , أو تكلم مع شخص يستطيع أن يفهم ألتقرير."

ਇਸ ਰਿਪੋਰਟ ਵਿਚ ਤੁਹਾਡੇ ਪੀਣ ਵਾਲੇ ਪਾਣੀ ਵਾਰੇ ਬਹੁਤ ਜਰੂਰੀ ਸੂਚਨਾ ਹੈ। ਇਸ ਨੂੰ ਪੜ੍ਹੋ ਜਾਂ ਜੋ ਸਜਨ ਇਸ ਨੂੰ ਸਮਝ ਸਕਦੇ ਹਨ, ਉਸ ਕੋਲੋਂ ਸਮਝੋ।

ACWD
ALAMEDA COUNTY WATER DISTRICT
43885 South Grimmer Blvd.
Fremont, CA 94538

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2011 WATER QUALITY REPORT

Dear ACWD Customer:

This report summarizes the results of the approximately 60,000 analyses conducted on your drinking water during 2011. I'm pleased to report that your water consistently met or surpassed all federal and state drinking water standards for public health and safety over the course of the year. To learn more about the quality of your drinking water, turn to the following pages:

Walt Wadlow
General Manager

A MESSAGE FROM THE USEPA AND THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH

A Note about Drinking Water

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. These contaminants enter water as it travels over the surface of the land or through the ground, dissolving substances that are naturally present in the environment or picking up substances resulting from the presence of animals or human activity. The presence of contaminants does not necessarily indicate that water poses a health risk.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the California Department of Public Health (CDPH) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. CDPH regulations are in many cases more stringent than federal ones. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (800-426-4791).

A Note to the Immuno-compromised

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 guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

COMPREHENSIVE WATER QUALITY MONITORING

ACWD works diligently to ensure that your water complies with all state and federal drinking water standards. This is a comprehensive effort that includes monitoring and testing for many types of contaminants that may be present in source water (i.e., water before treatment), including:

- Microbials, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganics, 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 chemicals, including synthetic and volatile organic chemicals that are byproducts of industrial processes and petroleum production, or that may come from gas stations, urban stormwater runoff, agricultural application, and septic systems.

Laboratory analysts use instruments such as the ion chromatograph to ensure the safety of your drinking water.

- Radioactive contaminants, that can be naturally occurring or be the result of oil and gas production and mining activities.

Highly trained analysts and water treatment plant operators in our state-certified laboratory and satellite laboratories are committed to conducting these tests under a stringent Quality Assurance/Quality Control (QA/QC) program. Through written procedures, work instructions, and detailed record maintenance, the QA/QC program ensures the quality of the analytical data produced by the laboratory. ACWD staff members collect samples daily from the water sources, treatment facilities, and distribution system to ensure the high quality of the water you drink.

DRINKING WATER SOURCE ASSESSMENT

In response to 1996 federal Safe Drinking Water Act amendments, California was required to implement a Source Water Assessment program. Drinking Water Source Assessments are conducted to determine how vulnerable drinking water sources are to contamination. Assessments have been completed for all of ACWD's water sources.

- The San Francisco Public Utilities Commission (SFPUC), which administers the Hetch Hetchy system, completed its assessment in 2000. It was found that SFPUC watersheds are vulnerable to contaminants associated with wildlife and, to a limited extent, human recreational activity. Historically, the levels of contaminants have been very low in the watersheds.
- The South Bay Aqueduct (SBA) source assessment was completed in 2002. This source is most vulnerable to agricultural drainage, wastewater treatment plant discharges, urban runoff, recreational activity, and cattle grazing. In addition, seawater intrusion contributes salt and bromide to the water supply.
- ACWD's assessment of local groundwater sources was also completed in 2002. These sources are most vulnerable to existing and historic gas stations, known contaminant plumes, confirmed leaking underground storage tanks, dry cleaners, metal plating/finishing/fabricating, and sewer collection.

The Mission San Jose Water Treatment plant is one of four treatment facilities that purify your tap water to the strict standards set by federal and state agencies.

Although ACWD water sources are vulnerable to potentially contaminating activities, our treatment and blending facilities purify your tap water to the strict standards set by federal and state regulatory agencies. Complete assessments may be reviewed at ACWD headquarters located at 43885 South Grimmer Boulevard in Fremont. To have a summary of the assessments sent to you, please call Laura Hidas, Water Supply Supervisor, at (510) 668-6516.

2011 WATER QUALITY INFORMATION

Your water was in compliance with federal and state standards for public health and safety. The chemists, technicians, and water treatment plant operators in ACWD's state certified laboratory and satellite laboratories performed approximately 60,000 chemical and bacteriological analyses on your water during 2011. The results revealed that very few of the more than 180 substances we tested for were found in your water. There are two types of standards ACWD is required to meet:

Primary Drinking Water Standards set limits for substances in water that may be harmful to humans if consumed in excess. They include MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards deal with aesthetic qualities such as taste and odor which relate to consumer acceptance rather than health factors.

A summary of key results for 2011 is presented in the following charts. Technical terms and abbreviations used in the charts are explained below.

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 or technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

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 U.S. Environmental Protection Agency.

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.

Notification Level (NL): CDPH health-based advisory levels used to provide information to public water systems and others about unregulated contaminants in drinking water. Unregulated contaminant monitoring helps the EPA and the CDPH to determine where certain contaminants occur and whether the contaminants need to be regulated.

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

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

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

ABBREVIATIONS

mg/L: Milligrams per liter (which is equal to parts per million)

µg/L: Micrograms per liter (which is equal to parts per billion)

ppm: Parts per million (which is equal to milligrams per liter)

ppb: Parts per billion (which is equal to micrograms per liter)

pCi/L: Picocuries per liter (a measure of radioactivity)

µmhos/cm: Micromhos/centimeter

NTU: Nephelometric turbidity units

ND: The substance could not be found at the minimum amount that can be detected

NA: Not Applicable

PRIMARY DRINKING WATER STANDARDS

Parameters	Units	Primary MCL or [MRDL]	(PHG) (MCLG) or [MRDLG]	Treated Surface Water (1)		Purchased San Francisco Water (1)		Blended Water (1)		Desalinated Water (1)		Major Sources
				Range	Average	Range	Average	Range	Average	Range	Average	
Fluoride (naturally occurring) (2)	ppm	2	(1)	ND		0.6 - 1.3	1.0	0.14 - 0.26	0.21	ND - 0.21	0.06	Erosion of natural deposits
Fluoride (treated water) (3)	ppm	2	(1)	Average = 0.87 (Range 0.10 - 1.07)								Water additive that promotes strong teeth
Aluminum	ppm	1	(0.6)	ND		ND - 0.07	ND	ND		ND		Erosion of natural deposits; residue from some surface water treatment processes
Bromate	ppb	10	(0.1)	Highest RAA(4) = ND (Range of individual detections: ND - 1.8)								Disinfection by-product
Disinfectant Residual (as Cl_2) (5)	ppm	[4]	[4]	Annual Average(6) = 2.0 (Range of individual detections: 0.1 - 3.0)								Disinfectant residual
5 Haloacetic Acids (HAA5) (7)	ppb	60	NA	Highest RAA(8) = 17.0 (Range of individual detections: ND - 48.0)								Disinfection by-product
Nitrate (as NO_3)	ppm	45	(45)	ND - 2.2	ND	ND		ND - 2.4	ND	2.6 - 3.1	2.9	Runoff from fertilizer use, erosion of natural deposits
Nitrate + Nitrite (as Nitrogen N)	ppm	10	(10)	ND - 0.5	ND	ND		ND - 0.5	ND	0.6 - 0.7	0.6	Runoff from fertilizer use, erosion of natural deposits
Total Trihalomethanes (TTHMs) (9)	ppb	80	NA	Highest RAA (8) = 26.0 (Range of individual detections: ND - 72.0)								Disinfection by-product
Turbidity (10)	NTU	TT = 0.3 (11)	NA	ND - 0.27	0.04	NA	NA	Not subject to the turbidity monitoring requirement				Soil runoff
		TT = 5.0 (12)	NA	NA	NA	0.06 - 0.35	0.16					

Lead and Copper Sampling Program (13)	Units	Action Level (14)	(PHG)	Range	90th Percentile Value	Number of Samples Collected	Number of Samples above AL	Typical Sources in Drinking Water
Copper (15)	ppm	1.3	(0.17)	ND - 0.9	0.7	56	0	Corrosion of household plumbing systems
Lead (15)	ppb	15	(0.2)	ND - 22.3	5.6	56	1	Corrosion of household plumbing systems

SECONDARY DRINKING WATER STANDARDS

Parameters	Units	Secondary MCL	Treated Surface Water		Purchased San Francisco Water		Blended Water		Desalinated Water		Major Sources
			Range	Average	Range	Average	Range	Average	Range	Average	
Chloride	ppm	500	32 - 55	40	3 - 6	4	42 - 63	51	49 - 60	54	Runoff/leaching from natural deposits; seawater influence
Manganese	ppb	50	ND - 22	ND	ND		ND		ND		Leaching from natural deposits
Specific Conductance	µS / cm	1600	217 - 389	290	34 - 170	86	408 - 620	524	333 - 404	364	Substances that form ions when in water; seawater influence
Sulfate	ppm	500	13 - 38	22	1.0 - 20	8	32 - 56	48	15 - 19	17	Naturally occurring minerals
Total Dissolved Solids	ppm	1000	121 - 239	167	28 - 106	55	197 - 343	277	168 - 210	191	Naturally occurring minerals and metals

OTHER WATER QUALITY PARAMETERS

Parameters	Units	NL	Treated Surface Water		Purchased San Francisco Water		Blended Water		Desalinated Water		Major Sources
			Range	Average	Range	Average	Range	Average	Range	Average	
Alkalinity	ppm as $CaCO_3$	NA	40 - 82	58	ND - 55	26	104 - 170	143	68 - 84	76	Naturally occurring minerals
Calcium	ppm	NA	10 - 22	14	3 - 18	7	16 - 36	28	12 - 14	13	Naturally occurring mineral
Hardness(16)	ppm as $CaCO_3$	NA	44 - 96	67	12 - 54	27	114 - 184	155	56 - 72	64	Naturally occurring minerals
Magnesium	ppm	NA	4.8 - 10.5	7.0	0.2 - 4.2	1.7	7.6 - 16.8	12.7	5.8 - 7.3	6.6	Naturally occurring mineral
pH	units	NA	8.8 - 9.2	9.0	9.3 - 9.5	9.4	8.0 - 8.4	8.2	8.7 - 9.0	8.9	Naturally occurring minerals
Potassium	ppm	NA	1.3 - 1.8	1.5	0.2 - 0.7	0.4	1.4 - 1.9	1.7	0.5 - 0.7	0.6	Naturally occurring mineral
Sodium	ppm	NA	27 - 42	32	3.6 - 16	8.1	41 - 62	52	45 - 54	50	Naturally occurring mineral

(1) Refer to the "Distribution System Map" (page 6) to determine the type of water you typically receive based on your location.

(2) Fluoride in purchased San Francisco water includes both naturally occurring fluoride and fluoride added by San Francisco to the regional supply upstream of ACWD.

(3) ACWD treats your water by adding fluoride to the naturally occurring level in order to help prevent dental caries in consumers. The fluoride levels in treated water are maintained within a range of 0.8 - 1.4 ppm, as required by State regulations.

(4) Compliance is based on a running annual average (RAA) of 12 monthly samples.

(5) Disinfectant residual in the distribution system consists of combined chlorine (chloramines); results are reported as Total Combined Chlorine.

(6) For disinfectant residual the annual average for 2011 is reported.

(7) Five Haloacetic Acids is the sum of monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid.

(8) Compliance is based on a running annual average (RAA) of distribution system samples collected in 4 quarters.

(9) Total Trihalomethanes is the sum of chloroform, bromodichloromethane, dibromochloromethane, and bromoform.

(10) Turbidity is a measure of the cloudiness of water. It is used to indicate water quality and filtration effectiveness. Turbidity is measured in NTUs (nephelometric turbidity units).

(11) Treatment Technique performance standard: 0.3 NTU for filtered water in 95% of the measurements for WTP2 and 0.1 NTU for filtered water in 95% of the measurement from MSJWTP taken at 15 minute intervals each month and shall not exceed 1.0 NTU at any time. The treated surface water met this standard 100% of the time.

(12) Treatment Technique performance standard: 5 NTU for unfiltered water. The purchased SFPUC water must meet this standard 100% of the time.

(13) In compliance with federal Lead and Copper Program requirements, 1 liter samples are taken by consumers from within their homes after a 6 to 8 hour stagnation period.

(14) Compliance is based on 90th percentile values, which should be less than the action levels (AL's).

(15) Due to consistently low sampling results, CDPH approved reduced lead and copper monitoring frequency to once every 3 years. Results reported here were collected by ACWD in 2009. The next sampling round is scheduled for Summer 2012.

(16) For customers who want to know their hardness value in grains per gallon (gpg), divide the provided hardness value by 17.1

LEAD AND COPPER SAMPLING PROGRAM

On June 7, 1991, the U.S. Environmental Protection Agency published the Lead and Copper Rule (LCR) to control lead and copper in drinking water. To comply with the LCR, the Alameda County Water District collects and analyzes first-draw samples from taps in homes and buildings within Fremont, Newark, and Union City every three years.

ACWD will again be fulfilling its LCR requirements during the summer of 2012 and is looking for eligible single-family and multi-family residences from which samples can be collected. If your home contains lead-soldered copper pipe installed after 1982 and you would like to participate in the sampling program, please call Greg Buncab at 510-668-6531 to see if your home meets the eligibility requirements. Participating homeowners will receive a free copy of the test results.

The language in the following article provides information about lead in drinking water. The lead and copper data provided in the water quality table reflects data from the triennial Lead and Copper Rule sampling conducted by ACWD in 2009.

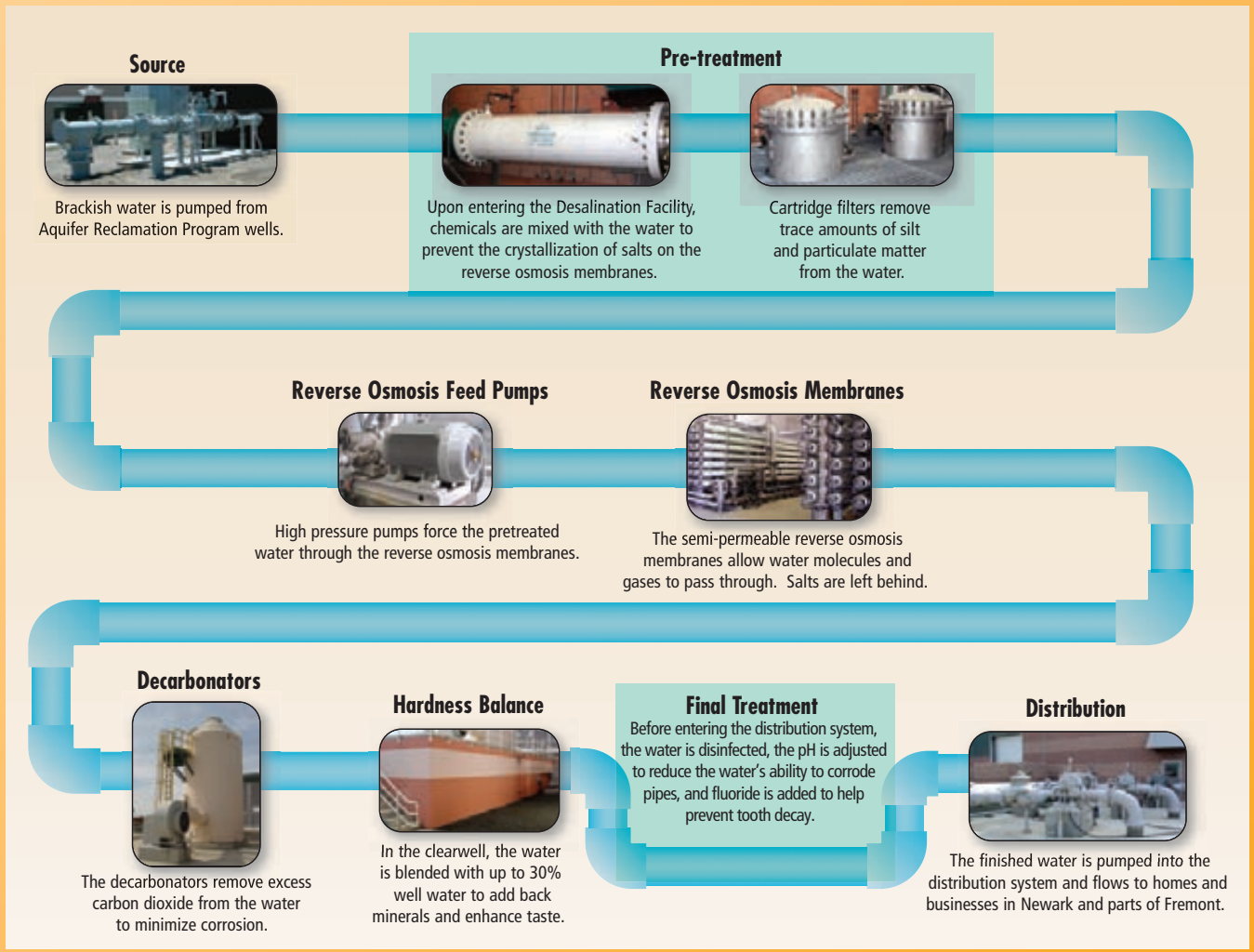
A NOTE ABOUT LEAD FROM THE U.S. ENVIRONMENTAL PROTECTION AGENCY

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. Alameda County Water District 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 (800-426-4791) or at www.epa.gov/safewater/lead.

NEWARK DESALINATION FACILITY – BIGGER AND BETTER THAN EVER

The Newark Desalination Facility (NDF), offline for two years to upgrade its capacity from 5.5 million gallons per day to 12.5 million gallons per day, roared back to life in August 2010 and again began producing water for Tri-City residents.

The NDF, dedicated in 2003, was the first brackish water desalination facility in northern California. It uses reverse osmosis to remove salts and other minerals from brackish (slightly salty) groundwater. The resulting high quality water is blended with other supplies before being delivered to residents and businesses in our area. Here's how the process works:



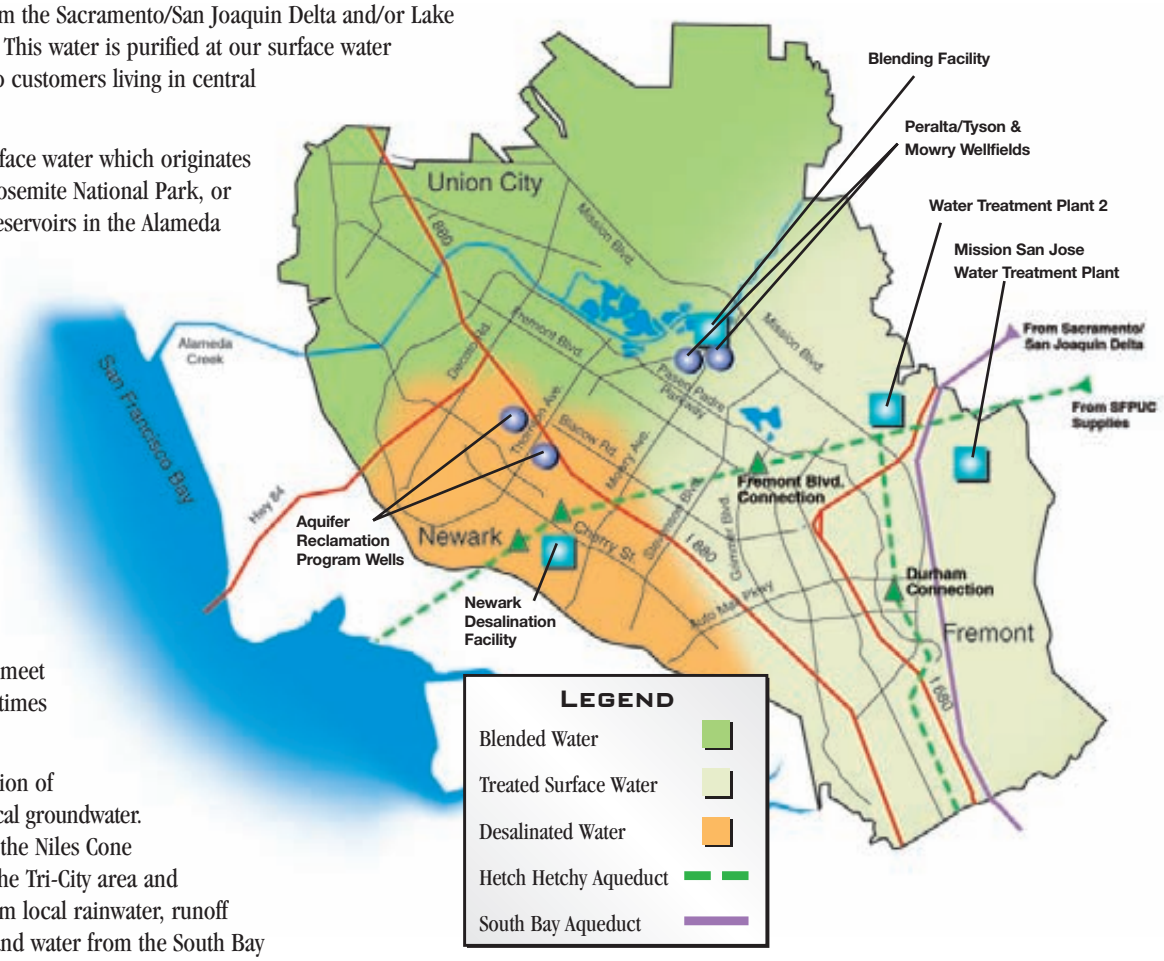
Where Our Water Comes From

ACWD supplies water to the Tri-City area from four sources.

- Treated surface water is imported from the Sacramento/San Joaquin Delta and/or Lake Del Valle via the South Bay Aqueduct. This water is purified at our surface water treatment plants and then delivered to customers living in central and south Fremont.
- Purchased San Francisco water is surface water which originates in either Hetch Hetchy Reservoir in Yosemite National Park, or locally in Calaveras or San Antonio Reservoirs in the Alameda Creek watershed. Hetch Hetchy water meets all federal and state criteria for watershed protection, disinfection treatment, bacteriological quality, and operational standards and has thus been granted a filtration exemption by the USEPA and the CDPH. Water from the local reservoirs is treated at a water treatment plant. Water from the San Francisco system is normally delivered through Hetch Hetchy Aqueduct connections in Fremont. Additional connections in Fremont and Newark may be used to meet peak summer water demands and in times of emergency.
- Blended water consists of a combination of purchased San Francisco water and local groundwater. The groundwater supply comes from the Niles Cone Groundwater Basin which underlies the Tri-City area and is replenished through infiltration from local rainwater, runoff from the Alameda Creek watershed, and water from the South Bay Aqueduct. Purchased San Francisco water is blended with local groundwater from the Peralta/Tyson and Mowry Wellfields at our Blending Facility and is delivered to customers living in north Fremont, Union City, and parts of Newark.
- Desalted or desalinated water is produced at the Newark Desalination Facility (NDF) from brackish (slightly salty) local groundwater. The desalinated water produced by the NDF is blended with Aquifer Reclamation Program well water to achieve a more balanced mineral content before being delivered to customers living in Newark and parts of Fremont.

Typical Distribution System Map

Your location in the Tri-City area determines the type of water you receive.



Your Views Are Welcome

Meetings of ACWD's Board of Directors typically begin at 6:00 p.m. on the second Thursday of each month and are open to the public. Meetings are held in the ACWD Board Room at the District's headquarters at 43885 South Grimmer Boulevard in Fremont. Further information regarding the Board meeting schedule can be found on our website at: www.acwd.org/bod_meetings.php5.

If you have any questions or need any more information about the quality of your water, please let us know. We would also appreciate any comments you have about this report. We can be reached by phone at (510) 668-4200, fax (510) 770-1793, on the Internet at www.acwd.org, or by mail at: Alameda County Water District, P.O. Box 5110, Fremont, CA 94537. Douglas Chun, Water Quality and Regulatory Compliance Manager, can be reached at 510-668-6510.

2011 Water Quality Report
A publication of the Alameda County Water District

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ACWD
ALAMEDA COUNTY WATER DISTRICT