

ANNUAL WATER QUALITY REPORT

In 2010, EBMUD water met or surpassed every public health requirement set by the California Department of Public Health and the U.S. Environmental Protection Agency.

ENSURING WATER QUALITY

EBMUD samples and tests your water extensively to make sure it is safe to drink. We look for more than 100 substances in the water including bacteria, pesticides, herbicides, asbestos, lead, copper, petroleum products and by-products of industrial and water treatment processes.

Before water reaches your tap, EBMUD takes many steps to ensure its quality. This includes managing watershed lands and reservoirs, treating the water, operating a complex distribution system of pipes, pumping plants and reservoirs, testing water samples in our laboratories and in the field, maintaining facilities and addressing customer concerns.

EXCELLENT WATER SOURCE

One of the most important factors in water quality is its source: the more pristine the source, the purer the water.

Ninety percent of EBMUD's water comes from the 577 square mile watershed of the Mokelumne River on the western slope of the Sierra Nevada. This area is mostly national forest, EBMUD-owned lands and other undeveloped lands little affected by human activity. The Mokelumne watershed collects snowmelt from Alpine, Amador and Calaveras counties that flows into Pardee Reservoir near the town of Valley Springs.

Three large aqueducts carry the water more than 90 miles to the East Bay. As it travels, the water is protected from pesticides, agricultural and urban runoff, municipal sewage and industrial discharges.

When water demand is high, EBMUD supplements the Sierra supply with water from protected local watersheds. All raw water, regardless of source, is first treated and filtered at one of EBMUD's water treatment plants before entering the distribution system and reaching your tap.



WATER QUALITY REGULATIONS

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. The CDPH regulations also establish limits for contaminants in bottled water.

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 USEPA's Safe Drinking Water Hotline at 800-426-4791 or visiting www.epa.gov/safewater.

Contaminants in drinking 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 source water include:

Microbial contaminants, such as viruses, bacteria and protozoa, such as Cryptosporidium, 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 storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

Synthetic organic contaminants, such as pesticides and herbicides that may come from a variety of sources, including agriculture, urban storm water and residential uses.

Volatile organic chemical contaminants from industrial processes and petroleum production, and from gas stations, urban storm water 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.

Cryptosporidium

Cryptosporidium is a microbial contaminant found in surface water throughout the United States. Although filtration is highly effective in removing Cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal.

Our monitoring indicates the presence of these organisms in one of our source waters. Current test methods cannot determine if the organisms are dead or are capable of causing disease. Ingestion of Cryptosporidium may cause abdominal infection with symptoms including nausea, diarrhea and abdominal cramps.

Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water. 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 these individuals to consult their physician regarding appropriate precautions to take to avoid infection.



Low resistance

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, and 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 USEPA Safe Drinking Water Hotline: 800-426-4791 or www.epa.gov/safewater.

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 lead service lines and home plumbing. EBMUD is responsible for providing high-quality drinking water and has replaced all known lead service lines in the District, but cannot control the variety of materials used in existing home plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by running your faucet for 30 seconds to two 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.

In the past five years, EBMUD has led successful efforts to strengthen state and federal environmental laws that protect consumers from lead exposure. In January 2011, President Obama signed the *Reduction of Lead in Drinking Water Act* requiring manufacturers to reduce lead in plumbing products used for drinking water to 0.25 percent by 2014. California's lead regulations require all such products currently sold in the state to meet those requirements.

Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the USEPA Safe Drinking Water Hotline 800-426-4791 or online at www.epa.gov/safewater/lead.

EBMUD 2010 ANNUAL WATER QUALITY REPORT

SURPASSING STATE REGULATIONS

In 2010, EBMUD water met or surpassed every public health requirement set by the California Department of Public Health and the U.S. Environmental Protection Agency.

The five tables show the measured levels of constituents detected in 2010 or in the most recent required year at EBMUD source waters, water treatment plants or in the distribution system.

Table 1 – Health-Related StandardsConstituents with primary maximum contaminant levels (MCLs) are regulated to protect your health.

Table 2 – Aesthetic Standards

Constituents with secondary maximum contaminant levels (MCLs) are regulated to maintain aesthetic standards for drinking water, such as odor, taste and appearance.

Table 3 - Unregulated constituents

Water agencies are required to report these substances if detected, but no maximum contaminant levels have been established.

Table 4 – Lead and copper

Lead and copper are regulated at the customer's tap and were most recently sampled as required, in 2008.

Table 5 - Other water quality parameters

These water measurements, such as pH, hardness and alkalinity, may be of interest to some consumers.

KEY TERMS

- DBP disinfection by-products. These are formed when chlorine and/or ozone reacts with natural constituents in water. Trihalomethanes (THMs), haloacetic acids (HAAs) and bromate are disinfection by-products.
- MCL maximum contaminant level. 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 odor, taste and appearance of drinking water.
- MCLG maximum contaminant level goal. 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.

1	Constituents with primary MCLs	Unit	Year sampled	MCL or [MRDL]	PHG, (MCLG) or [MRDLG]	Average	Walnut Creek	Wa Lafayette	ater treatment pla Orinda	nts Sobrante	Upper San Leandro	Typical sources	
ical	Cryptosporidium in source water	#/liter	2008	TT	(0)	NA	0	0	0	0.3	0	Naturally present in the environment	
polo	Total Coliform	_	2010	5%	(0)	NA		0.6% (highest	percentage found	l in any month)		Naturally present in the environment	
crobi	Tuk islin.	NTU	2010	1	NS	0.03	0.02 - 0.09	0.02 - 0.13	0.02 – 0.10	0.03 – 0.11	0.04 – 0.11	Soil runoff	
Micr	Turbidity	_	2010	95% ≤0.3	NS	100%	100%	100%	100%	100%	100%	Souranou	
tive	Gross alpha in source water ^a	pCi/L	2006, 2007	007 15 (0) <3 <3		<3	<3	<3	<3 – 11	<3	Erosion of natural deposits		
ioaci	Gross beta in source water	pCi/L	2006, 2007	50 ^b	(0)	<4	<4	<4	<4	<4 – 9.1	<4	Decay of natural and man-made deposits	
Rad	Uranium in source water ^a	pCi/L	2006, 2007	20	0.43	NA	<1	<1	<1	<1	<1	Erosion of natural deposits	
Ji.	Aluminum	ppb	2010	1000	600	<50	<50	<50	<50	<50	53 – 76	Erosion of natural deposits; residue from some surface water treatment processes	
organ	Chloramine as Cl ₂	ppm	2010	[4]	[4]	1.9 ^c		<0.05 – 3.3 ^d			Drinking water disinfectant added for treatment		
<u>n</u>	Fluoride in source water ^e	ppm	2010	2	1	<0.1	<0.1	<0.1	<0.1	<0.1	0.16	Erosion of natural deposits; discharge from fertilizer and aluminum factories ^e	
	Acrylamide	_	2010	TT	(0)	NA	met req.	NA	NA	NA	NA	Added to water during water treatment	
anic	Control of DBP precursors/TOC	_	2010	TT	NS	NA	NA	NA	NA	met req.	met req.	Various natural and man-made sources	
Org	Haloacetic acids, 5 species	ppb	2010	60	NS	18 ^c	16 – 27	12 – 25	12 – 19	15 – 38	8 – 33	By-product of drinking water disinfection	
	Trihalomethanes	ppb	2010	80	NS	36 ^c	36 – 46	34 – 39	30 – 40	32 – 48	15 – 43	By-product of drinking water disinfection	

2 Constituents with secondary MCLs	Unit	Year	MCL	PHG	Average	Water treatment plants				Upper	Tunical courses	
Constituents with secondary MCLs	Offit	sampled	WICL	PIIG		Walnut Creek	Lafayette	Orinda	Sobrante	San Leandro	Typical sources	
Aluminum	ppb	2010	200	NS	<50	<50	<50	<50	<50	53 – 76	Erosion of natural deposits; residue from some surface water treatment processes	
Chloride	ppm	2010	250	NS	9	4	5	5 – 6	17	17	Runoff/leaching from natural deposits; seawater influence	
Color	color units	2010	15	NS	2	3	3	2	<1	2	Naturally-occuring organic materials	
Odor	TON	2010	3	NS	NS 2 3 1 1 1-3 1		1	2	Naturally-occuring organic materials			
Specific conductance	μmhos/cm	2010	900	NS	162	61	62	76 – 122	270	383	Substances that form ions when in water; seawater influences	
Sulfate	ppm	2010	250	NS	15	1.2	1.2	5.3 – 12	32	41	Runoff/leaching from natural deposits; industrial wastes	
Total dissolved solids	ppm	2010	500	NS	102	45	45	54 – 76	160	230	Runoff/leaching from natural deposits	
Turbidity	NTU	2010	5	NS	0.03	0.02 - 0.09	0.02 - 0.13	0.02 - 0.10	0.03 – 0.11	0.04 - 0.11	Soil runoff	

3 Unregulated constituents	Unit	Year sampled	Notification level	PHG	Average	Water treatment plants Walnut Creek Lafayette Orinda Sobrante		Upper San Leandro	Typical sources		
Boron	ppb	2010	1000	NS	<100	<100	<100	<100	<100	118 – 122	Runoff/leaching from natural deposits
Chlorate	ppb	2010	800	NS	247	130	160	140 – 160	170 – 410	230 – 410	By-product of sodium hypochlorite decomposition
N-Nitrosodimethylamine ^f (NDMA)	ppt	2010	10	3	4	1.4 - 2.9 $0.9 - 3.5$ $2.5 - 3.2$ $1.7 - 3.3$ $2.6 - 21$ By-product of drinking water chlori		By-product of drinking water chlorination			

4 Lead and copper	Unit	Year sampled	Regulatory action level	PHG	90th percentile	Sites above regulatory action level	Typical sources
Copper	ppb	2008	1300	300	65	0 out of 53	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead ^g	ppb	2008	15	0.2	4	2 out of 53	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

- MRDL maximum residual disinfectant level. 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.
- MRDLG maximum residual disinfectant level goal.

 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 A health-based advisory level established by the California Department of Public Health for chemicals in drinking water that lack MCLs.
- PDWS primary drinking water standard. These standards regulate contaminants that affect health by setting MCLs and MRDLs along with their monitoring, reporting and water treatment requirements.
- PHG public health goal. 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** The concentration which, if exceeded, triggers treatment or other requirements that a water system must follow.
- **TOC** total organic carbon. A measure of organic compounds that could form by-products after disinfection.
- **Turbidity** A measure of the cloudiness of water.

 Turbidity is monitored because it is a good indication of the effectiveness of our filtration systems.
- TT treatment technique. A required process intended to reduce the level of a contaminant in drinking water.
- **90th percentile** A measure that indicates 90 percent of the samples had a lower result.

FOOTNOTES

a) Uranium was detected at 1.1 pCi/L and gross alpha was detected at 4.6 pCi/L in Chabot Reservoir. This is an emergency standby reservoir that has not been used for water supply in more than 30 years. b) CDPH considers 50 pCi/L to be the level of concern for gross beta particles. c) Highest running annual average. d) Chloramine residuals in the distribution system are measured as an equivalent quantity of chlorine. When the chloramine residual is less than 0.05 ppm, the sample is further analyzed to ensure that microbiological water quality is in compliance with the regulations. e) Fluoride is also added to help prevent dental decay in consumers. Regulations require that fluoride levels in the treated water be maintained between 0.7 to 1.4 ppm with an optimum dose of 0.8 ppm. Information about fluoridation, oral health and current issues is available from www.cdph.ca.gov/certlic/drinkingwater/pages/fluoridation.aspx. f) Sampling locations are chosen to represent worst-case scenarios. g) See Water Quality Regulations page for additional information about lead in drinking water. h) Grains per gallon (gpg) is a measure of water hardness. Knowing the amount can help improve the function of dishwashers, cooling equipment and other process applications.

MEETING DAILY WATER DEMAND

SAN PABLO BAY

80

(WTP)

Berkeley

San Pablo

Briones Reservoir

> Lafayette Reservoir

> > Upper

San Leandro Reservoir

EBMUD provides high-quality drinking water to 1.3 million customers in Alameda and Contra Costa counties. EBMUD's water treatment plants are capable of filtering and processing a combined total of more than 375 million gallons of water daily.

This map of the EBMUD service area shows which water treatment plants serve your neighborhood. Lafayette, Sobrante and Upper San Leandro water treatment plants operate during periods of high demand or operational needs.

SUISUN BA

680

Walnut Creek

WTP

WHICH WATER TREATMENT PLANTS SERVE YOUR CITY?

City **Treatment plants** Alameda Orinda/Upper San Leandro Walnut Creek Alamo **Albany** Orinda Berkeley Orinda Castro Valley Upper San Leandro/Orinda Crockett Sobrante/Orinda Walnut Creek Danville El Cerrito Orinda El Sobrante Sobrante/Orinda Emeryville Orinda Hayward Upper San Leandro/Orinda Hercules Sobrante/Orinda Kensington Orinda Lafayette Lafayette/Walnut Creek Lafayette/Orinda Moraga Oakland Orinda/Upper San Leandro

Piedmont Orinda/Upper San Leandro
Pinole Sobrante/Orinda
Pleasant Hill Walnut Creek
Richmond Sobrante/Orinda
Rodeo Sobrante/Orinda
San Leandro Upper San Leandro/Orinda
San Lorenzo Upper San Leandro/Orinda

Orinda

San Leandro Upper San Leandro/Orinda
San Lorenzo Upper San Leandro/Orinda
San Pablo Sobrante/Orinda
San Ramon Walnut Creek

San Ramon Walnut Creek
Walnut Creek Walnut Creek/Lafayette

Orinda/Lafayette

Walliut Cleek/Lalayett

Water treatment plant Walnut Creek WTP

Lafayette WTP
Orinda WTP
Sobrante WTP
Upper San Leandro WTP

Source reservoir(s)
Pardee (in Sierra foothills)
Pardee
Pardee, Briones
San Pablo
Upper San Leandro

ABBREVIATIONS

San

Francis

gpg - grains per gallon

NA - not applicable

NS - no standard established

NTU – nephelometric turbidity unit, a measure of the cloudiness of water.

pCi/L – pico curies per liter, a measure of radioactivity.

ppm – parts per million, a proportion equivalent to about 30 seconds in one year. (mg/L)

ppb – parts per billion, a proportion equivalent to about 30 seconds in 1,000 years. (μg/L)

ppt – parts per trillion, a proportion equivalent to about 30 seconds in 1,000,000 years. (ng/L)

TON – threshold odor number, a measure of odor in water.

µmhos/cm – micromhos per centimeter, a measure
of electrical conductance.

5 Other water quality parameters	Unit	Walnut Creek		r treatment pl Orinda	ants Sobrante	Upper San Leandro
Alkalinity, bicarbonate as CaCO ₃	ppm	20	18	22 – 29	80	120
Alkalinity, carbonate as CaCO ₃	ppm	1.2	1.4	3.3 – 4.1	3.8	6.6
Calcium	ppm	3.9 – 5.8	4.3 – 5.7	3.9 – 9.6	20 – 22	33 – 35
Handmare as CaCO	gpg ^h	0.7 – 1.1	0.8 – 1.1	0.8 – 1.8	4.3 – 5.0	7.6 – 8.2
Hardness as CaCO ₃	ppm	12 – 18	14 – 18	14 – 30	73 – 85	130 – 140
Magnesium	ppm	0.6 – 1.1	0.7 – 1.1	0.7 – 2.3	6.7 – 7.4	13
рН	рН	8.8 – 9.1	8.5 – 9.1	8.8 – 9.2	8.6 – 8.8	8.6 – 8.8
Potassium	ppm	0.5 – 0.6	0.5 – 0.6	0.5 – 0.9	1.3 – 1.9	1.5 – 2.1
Silica	ppm	8.6 – 11.6	8.7 – 11.7	8.7 – 10.8	6.6 – 8.8	6.6 – 7.3
Sodium	ppm	4.9 – 5.9	5.1 – 6.4	5.1 – 10	26 – 27	30 – 32

MAP KEY

Area served

CONTACT US

For more information about water quality or to report a water quality concern, call 866-40-EBMUD (866-403-2683) or visit www.ebmud.com.

EBMUD encourages public participation in decisions affecting drinking water quality and other matters at its Board of Directors meeting held the second and fourth Tuesdays of each month at 1:15 p.m., 375 Eleventh Street, 2nd Floor, Oakland.

Board of Directors

John A. Coleman • Katy Foulkes Andy Katz • Doug Linney • Lesa R. McIntosh Frank Mellon • William B. Patterson

General Manager

Alexander R. Coate

ADDITIONAL CONTACTS

California Department of Public Health Drinking Water Branch • 510-620-3463

U.S. Environmental Protection Agency Safe Drinking Water Hotline • 800-426-4791

Alameda County Public Health Department • 510-267-8000

Contra Costa Public Health Division • 925-313-6712 375 Eleventh Street

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This report contains important information about your drinking water. Translate it, or speak with someone who understands it. To request a copy of this report in Spanish or Chinese, please call (510) 287-0138.

SPANISH

Este informe contiene importante información sobre el agua potable que usted consume. Tradúzcalo, o hable con alguien que lo comprenda, o solicite un ejemplar de este informe en español llamando al (510) 287-0138.

CHINESE

這份報告包含有您飲用水的重要 資訊。請翻譯該內容,或與了解 内容的人討論,或者請致電 (510) 287-0138 索取中文報告。

JAPANESE

この報告書には、あなたの飲料水 に関する重要な情報が含まれてい ます。和訳するか、理解できる人 に相談してください。

본 보고서에는 귀하의 음료수에 관한 중요한 정보가 나와 있습니다. 번역을 부탁하거나 그 내용을 이해하시는 분으로부터 설명을 들으십시오.

CAMBODIAN (KHMER)

របាយការណ៍នេះមានពត៌មានសំខាន់ អំពីទឹកជីក។ សូមរកគេឲ្យបកប្រែជូន ប្តពិគ្រោះជាមួយអ្នកណាដែលយល់ រកាយការណ៍នេះ ។

รายงานฉบับนี้มีข้อมูลสำคัญเกี่ยวกับน้ำดื่มของท่าน ขอให้แปลรายงานฉบับนี้หรือพูดคุยกับผู้ที่เข้าใจเนื้อ หาในรายงานนี้

ລາຍງານສະບັບນີ້ມີຂໍ້ມູນສຳຄັນກ່ຽວກັບ ้ ทั้วก็บออาท่าน. ใต้ท่านแปเอกะสาน ນີ້ເປັນພາສາລາວ, ຫລືໃຫ້ທ່ານເວົ້າປຶກສາ ກັບຜູ້ທີ່ເຂົ້າໃຈເລື່ອງ.

ਇਸ ਰਿਪੋਰਟ ਵਿੱਚ ਤੁਹਾਡੇ ਪੀਣ ਵਾਲੇ ਪਾਣੀ ਬਾਰੇ ਜ਼ਰੂਰੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਗਈ ਹੈ। ਇਸਦਾ ਅਨੁਵਾਦ ਕਰੋ ਜਾਂ ਕਿਸੇ ਨਾਲ ਗਲ ਕਰੋ ਜੋ ਇਸਨੂੰ ਸਮਝਦਾ

GUJARATI

આ રિપોર્ટમાં તમારા પીવાના પાણી વિષે મહત્ત્વની માહિતી છે. એનો અનુવાદ કરો, અથવા જેને એની સમજણ પડતી હોય તેની સાથે વાત કરો.

इस रिपोर्ट में आपके पीने के पानी के बारे में महत्वपूर्ण जानकारी दी हुई है। इसका अनुवाद करें, या किसी ऐसे व्यक्ति से बात करें जो इसे समझता हो।

Здесь содержится информация о вашей питьевой воде. Переведите ее, или обратитесь к тому, кто это понимает.

U ovom izvještaju nalaze se važne informacije o vašoj vodi za piće. Prevedite ga ili razgovarajte sa nekim ko razumije ovaj izvještaj.

VIETNAMESE

Bản báo cáo này có các thông tin quan trọng về nước uống của quý vị. Hãy chuyển ngữ tài liệu này, hoặc nói chuyện với người có thể hiểu được bản báo cáo này.

FRENCH

Ce rapport contient des informations importantes concernant votre eau potable. Faites-le traduire ou adressezvous à quelqu'un qui est en mesure de le comprendre.

TAGALOG

Ang ulat na ito ay naglalaman ng importanteng impormasyon tungkol sa inyong iniinom na tubig. Isalin ito, o makipag-usap sa isang taong nakakaintindi nito.

Ten raport zawiera ważne informacje dotyczące wody pitnej. Przetłumacz go, lub porozmawiaj z kimś, kto go rozumie.

Η έχθεση αυτή περιέχει σημαντικές πληροφορίες σχετικά με το πόσιμο νερό σας. Μεταφράστε την έχθεση ή μιλήστε με κάποιο άτομο που την κατανοεί.

Daim ntawy ghia no muaj cov lus ghia tseem ceeb txog koj cov dej haus. Muab txhais, los sis nrog ib tug neeg uas nkag siab txog qhov no tham.

דו"ח זה מכיל מידע חשוב על מי שתייה. תרגמו אותו או שאלו מישהו שמבין את תוכנו.

يحتوى هذا التقرير على معلومات هامة حول مياه الشرب التي تتناولها. ترجم التقرير أو حدث إلى شتخص يستطيع فهمه.

این گزارش حاوی اطلاعات مهمی ین رر و در آب آشامیدنی است آن را ترجمه کنید یا از کسی که مطالب آن را می فهمد

اس رپورٹ میں آپ کے پینے کے پانی سے متعلق امم معلومات میں. اس کا ترجمہ کریں، یا کسی ایسے شخص سے بات کریں جو اسے سمجھتا ہو.