

APPENDIX B: eCCR Certification Form (Suggested Format)

Consumer Confidence Report Certification Form

(To be submitted with a copy of the CCR)

Water System Name: Edwards Air Force Base

Water System Number: CA1510701

The water system named above hereby certifies that its Consumer Confidence Report was distributed on 25 June 2023 to customers (and appropriate notices of availability have been given). Further, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the State Water Resources Control Board, Division of Drinking Water (DDW).

Certified by: Name: 2nd Lieutenant Tyler Miner

Signature: _____

Title: Environmental Health OIC

Phone Number: (661) 277 - 3272 Date: 30 September 2024

To summarize report delivery used and good-faith efforts taken, please complete this page by checking all items that apply and fill-in where appropriate:

- CCR was distributed by mail or other direct delivery methods (attach description of other direct delivery methods used).
- CCR was distributed using electronic delivery methods described in the Guidance for Electronic Delivery of the Consumer Confidence Report (water systems utilizing electronic delivery methods must complete the second page).
- "Good faith" efforts were used to reach non-bill paying consumers. Those efforts included the following methods:
 - Posting the CCR at the following URLs:
<https://www.edwards.af.mil/Portals/50/mainbasewaterreport.pdf>
 - Mailing the CCR to postal patrons within the service area (attach zip codes used)
 - Advertising the availability of the CCR in news media (attach copy of press release)
 - Publication of the CCR in a local newspaper of general circulation (attach a copy of the published notice, including name of newspaper and date published)
 - Posted the CCR in public places (attach a list of locations)
 - Delivery of multiple copies of CCR to single-billed addresses serving several persons, such as apartments, businesses, and schools
 - Delivery to community organizations (attach a list of organizations)
 - Publication of the CCR in the electronic city newsletter or electronic community newsletter or listserv (attach a copy of the article or notice)
 - Electronic announcement of CCR availability via social media outlets (attach list of social media outlets utilized)
 - Other (attach a list of other methods used)
- For systems serving at least 100,000 persons: Posted CCR on a publicly-accessible internet site at the following URL: www._____
- For privately-owned utilities: Delivered the CCR to the California Public Utilities Commission

Consumer Confidence Report Electronic Delivery Certification

Water systems utilizing electronic distribution methods for CCR delivery must complete this page by checking all items that apply and fill-in where appropriate.

- Water system mailed a notification that the CCR is available and provides a direct URL to the CCR on a publicly available website where it can be viewed (attach a copy of the mailed CCR notification). URL: [1. Main Base EAFB 2023 CCR.pdf](#)
- Water system emailed a notification that the CCR is available and provides a direct URL to the CCR on a publicly available site on the Internet where it can be viewed (attach a copy of the emailed CCR notification). URL:
- Water system emailed the CCR as an electronic file email attachment.
- Water system emailed the CCR text and tables inserted or embedded into the body of an email, not as an attachment (attach a copy of the emailed CCR).
- Requires prior DDW review and approval.* Water system utilized other electronic delivery method that meets the direct delivery requirement.

Provide a brief description of the water system's electronic delivery procedures and include how the water system ensures delivery to customers unable to receive electronic delivery.

Edwards AFB Public Affairs employs a digital app called The Tower along with a companion website to disseminate weekly newsletters. All military and/or non-military members living or working on Edwards AFB have access to The Tower. A push notification was issued when the CCRs became available. See attached for a screen print of the newsletter where the CCRs were linked.

The Public Affairs office will include the CCRs on three (3) cycles of the newsletter and a push notification will be issued each time. Afterwards, they will still be included on Edwards AFB Environmental page. URL: <https://www.edwards.af.mil/about/environment/>

In an attempt to reach all residents (to include spouses without access to military email addresses) an electronic copy of the CCR was sent to the directors of the privatized on-base housing company for further distribution. The housing directors emailed all residents on 30 September 2024 to distribute the CCR. See attached copy of the email.

All emails and notifications included the name/contact information for the Point-of-Contact if residents would like to obtain a paper copy of the CCR.

This form is provided as a convenience and may be used to meet the certification requirement of section 64483(c) of the California Code of Regulations.

Environment



Supporting the Edwards Air Force Base Mission Through Sound Environmental Stewardship

At Edwards Air Force Base, the mission and the environment go hand-in-hand. The unique physical environment is what makes the desert such an ideal place for flight-test activities. Helping the flight testers maintain access to air, land and water for testing and other operations, while not upsetting the delicate balance of the desert ecosystem, is the mission of the 412th Civil Engineer Group Environmental Management Division (412 CEG/CEV).

HotInfo

CLICK HERE TO READ:
[Early Notice and Public Review of a Proposed Activity in a 100-year and a 500-year Floodplain](#)

Edwards Air Force Base, California
 July 31, 2024

Contact

Location
 Building 3735
 120 N. Rosamond Blvd.,
 Suite A
 Edwards AFB, CA 93524

Phone
 661-277-1401

Social Media
[Facebook](#)
[YouTube](#)

HotInfo

CLICK HERE TO READ:
[Early notice of the development of an environmental assessment with proposed activities in 100-year floodplains](#)

Edwards Air Force Base, California
 March 15, 2024

Publications

Plans

- [ERP Community Involvement Plan \(August 2023\)](#)
- [Integrated Natural Resources Management Plan 32-7064](#)

Report to Stakeholders

- [April 2024 Report to Stakeholders](#)
- [January 2024 Report to Stakeholders](#)

Meeting Minutes

- [November 2023 RAB Meeting Minutes](#)
- [May 2023 RAB Meeting Minutes](#)

Fact Sheets

- [September 2021 MMRP Fact Sheet](#)
- [November 2020 RAB Fact Sheet](#)

RAB

- [RAB Bylaws](#)
- [RAB Charter](#)

General Information

Water Quality Reports – 2023 Annual CCRs

The Bioenvironmental Engineering Flight is pleased to present the Edwards Air Force Base and Air Force Research Laboratory (AFRL) 2022 Annual Water Quality Reports. We feel it is important our customers know about where our water comes from, what it contains, and how it compares to requirements set by regulatory agencies. This report is a snapshot of last year's water quality.

[Main base click here](#)
[AFRL click here](#)

[Edwards Air Force Base Environmental Commitment Statement \(Click To View The ECS\)](#)

To effectively accomplish its mission, Environmental Management has adopted an approach that provides expert services in all areas of environmental support. Appropriate personnel are consulted during the planning and implementation stages of all test programs and construction projects on Edwards.

Three main areas of environmental service and support are provided through the Environmental Management office at Edwards. They include:

Compliance: Manages air quality, water quality, hazardous material, hazardous and universal waste, aboveground and underground storage tanks, and special programs (polychlorinated biphenyls, asbestos, and lead-based paint). Assists base organizations with the selection, design and installation of low emissions equipment, as well as applying for and maintaining permits. The goal of compliance is to meet and satisfy all applicable environmental laws, statutes and regulations. Compliance also develops processes to minimize the use of hazardous material, minimize generation of hazardous waste, reduce solid waste going to the landfill and promote reuse and recycling programs.

Conservation: Provides environmental analysis for test programs and construction projects. Also manages the protection and preservation of natural resources and cultural and historic sites on Edwards. 412 CEG/CEV also works closely with our environmental restoration colleagues from the Air Force Civil Engineer Center Installation Support Team (AFCEC/CZOW), who share our office space.

AFCEC/CZOW Restoration: Manages hazardous waste cleanup efforts at Edwards AFB. Under the Environmental Restoration Program, hazardous waste sites are identified, investigated and cleaned up with the goal of protecting human health and the environment. Documents related to environmental restoration investigation and mitigation at Edwards AFB are in the base's Administrative Record. To view the full record, you may contact Gary Hatch, 412th Test Wing Public Affairs, at (661) 277-8707 or by e-mailing 412tw.pae@us.af.mil. You may also view Administrative Record documents online at <https://ar.cce.af.mil> (select "Edwards AFB" under the Installation List). Two publications the public may find useful are the Environmental Restoration Community Involvement Plan and the quarterly Report to Stakeholders newsletter. Links to both documents can be found under the "Publications" tab on this site.

Edwards environmental experts actively work with regulatory agencies and the community in a spirit of cooperation and commitment to ensure the base accomplishes its mission without harming the environment.

Information

Published data and documents relating to the Environmental Restoration Program are available for public review.

Edwards AFB Library
 5 West Yeager Boulevard
 Edwards AFB, CA 93524
 (661) 275-2665

Wanda Kirk Branch Library
 3611 Rosamond Boulevard
 Rosamond, CA 93560
 (661) 256-3236

Lancaster Public Library
 601 West Lancaster Boulevard
 Lancaster, CA 93534
 (661) 948-5029

Restoration Advisory Board

The Restoration Advisory Board is the primary voice of the public and base workers in the Environmental Restoration Program. This group of volunteers acts as an information conduit between neighboring and base communities and the officials responsible for investigating and remediating environmental contamination at Edwards AFB.

Board members represent communities and work areas from both on- and off-base at semiannual meetings, which are open to the public. At the meetings, members review current investigations and remedial efforts, as well as learn about proposed plans for future remedial efforts. However, their most important task is bringing public concerns to the Air Force. Those with concerns may contact any member with a question or issue. More information can be found on the RAB's Facebook page at www.facebook.com/RAB.Edwards.

Next RAB Meeting
Date: November 21, 2024
Time: 5:30 p.m.
Location: Best Western Plus Desert Poppy Inn, 2038 W Avenue I, Lancaster, CA 93536

Env. Public Affairs

412 TW/PA
 305 East Popson Avenue
 Edwards AFB, CA 93524
 (661) 277-8707
412tw.pae@us.af.mil

List of Public Locations of CCR Distribution

Most locations either posted the physical copy on a public bulletin or provided link access via display screens in public places.

- Joshua Tree Dining Facility
 - Medical Clinic
- Consolidated Support Facility
 - Dental Clinic
 - Base Library
- Flight Medicine Annex
 - Fitness Center
- Oasis Community Center
 - AFRL Dining Facility



Edwards Air Force Base California



2023 Water Quality Report

2023 Monitoring Results for Edwards AFB – Main Base (Public Water System ID: CA1510701)
Prepared By: 412th Test Wing – Bioenvironmental Engineering Flight

Annual Consumer Report

We feel it is important that our consumers know about where our water comes from, what it contains, and how it compares to requirements set by regulatory agencies. This report is a snapshot of last year's water quality.

Through regular monitoring, any contaminants found were verified to be within regulatory standards. The detected amounts and the associated standards, are included in the tables published within this report.

Where Does Our Water Come From?

The EAFB Drinking Water System draws water from two sources:

- Antelope Valley East Kern (AVEK) Water Agency
- On-base groundwater wells

EAFB receives a majority of our water supply from the Antelope Valley East Kern (AVEK) Water Agency. The water received from the AVEK is supplied to EAFB in finished drinking water quality form. The AVEK supply is primarily from the California aqueduct, a surface water source that currently has 12 Wells as of 2018. AVEK's alternative supply is State Water Project water, which has been stored in the aquifer at various underground storage facilities (i.e. "water banks"). This water is extracted as local groundwater for water quality purposes or as supply during drought. As a water wholesaler, the AVEK Water Agency published their 2023 Water Quality Report earlier this year, which is located at <https://www.avek.org/2023-annual-water-quality-report-kern-county-system>

Additionally, water provided from AVEK is mixed with water supplied from on-base wells. In 2023, groundwater was supplied from two installation wells. One was used in combination with the AVEK supply to feed the main drinking water distribution system. The other well was used to feed a small section of the West Base area. All wells are located within the base boundaries, primarily near South and West Base areas. These wells are fed by the Antelope Valley Aquifer.

**Este informe contiene información muy importante sobre su agua potable.
Tradúzcalo o hable con alguien que lo entienda bien.**

Treatment Process

Our water is treated with chlorine, a disinfectant which kills dangerous bacteria and other microorganisms that may be in the water. The 412th Civil Engineering Squadron monitors the disinfectant levels on a daily basis.

Source Water Assessment

The 412th Civil Engineering (CE) Squadron completed our Source Water Assessment on 18 June 2003 and it is on file in the CE Water & Gas office (661-277-5000). This assessment looks at possible contamination sources that may affect the base water supply. Possible contaminating activities for the wells surveyed in this assessment include nearby abandoned wells, storm drainage discharge, above ground water storage tanks, and nearby roads. The health risks from these activities are diminished through weekly monitoring of the potable water system.

EAFB is aware that many buildings at AFRL use bottled water. EAFB is not responsible for sampling or for reporting on bottled water. Water quality reports for your bottled water may be obtained by contacting your building's bottled water vendor.

What Is In Drinking 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 the water poses a health risk.** More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (1-800-426-4791).

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 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 byproducts 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 Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Consumption Note for Susceptible Individuals

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

Water Quality Data Table

All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. Additionally, some naturally occurring minerals provide benefits by improving the taste of drinking water and providing nutritional value at low levels.

In order to ensure that tap water is safe to drink, the USEPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The tables on the following pages list all of the drinking water contaminants that were detected during the 2023 calendar year of this report. Many more contaminants were tested than listed on the following table; only those substances listed below were detected in our water. The USEPA and state allow us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently, or because the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, is more than one year old.

In these tables you may find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below.

Important Terms Used

Term	Definition
AL	Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
LRAA	Local Running Annual Average: Annual running average at a single sampling site.
HAA5	Sum of Five Regulated HAAs, i.e., Monochloroacetic Acid, Monobromoacetic Acid, Dichloroacetic Acid, Dibromoacetic Acid, and Trichloroacetic Acid
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 the 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.
mg/L	Mg/L: Milligrams per Liter (ppm)
N/A	Not Applicable
ND	Not Detected
pCi/L	pCi/L: picocuries per liter (a measure of radioactivity)
PDWS	Primary Drinking Water Standards: MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, 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.
ppm	ppm: parts per million, or milligrams per liter (mg/L)
ppb	ppb: parts per billion, or micrograms per liter (µg/L)
ppt	ppt: parts per trillion, or picograms per liter (pg/L)
SDWS	Secondary Drinking Water Standards: MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.
TTHM	Total Trihalomethanes, or Sum of Four Regulated THMs, i.e., Chloroform, Bromodichloromethane, Dibromochloromethane, and Bromoform
µs/cm	µs/cm: micro Siemens per centimeter (a measure of conductivity of a solution)
Level 2 Site Assessment	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an <i>E. coli</i> MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Water Quality Data Table

Contaminant	MCL	AVEK ¹	EAFB Wells		Distribution System ²		Months in Violation	Major Sources in Drinking Water			
Microbiological Contaminants (PDWS)³											
Total Coliform		0	1		3		0	Naturally present in the environment			
E. coli	1 positive sample		0		1		1	Human or animal fecal waste			
Contaminant	MCL	PHG	AVEK Plant Average ¹	AVEK Wells Average ¹	EAFB Wells Average	EAFB Well Range	Blended Average Range ⁴	West Base Average ⁵	Sample Date	Violation	Major Sources in Drinking Water
Arsenic (PDWS)											
Arsenic (µg/L)	10	0.004	5	4.6	8.4	2.8 - 18	1.0 - 10	2.8	2023	No	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Contaminant	MCL	PHG	AVEK Plant Average	AVEK Wells Average	EAFB Average	EAFB Well Range	West Base Well Average	Sample Date	Violation	Major Sources in Drinking Water	
Inorganic Compound (PDWS)											
Aluminum (µg/L)	1000	600	32	ND	ND	ND	ND	2021	No	Erosion of natural deposits; residue from some surface water treatment processes	
Barium	1000	2000	ND	ND	8.7	0 - 31	31	2021	No	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits	
Total Chromium (µg/L)	10	MCLG = 100	ND	7.5	1.91	ND - 8.3	ND	2021	No	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits	
Hexavalent Chromium ⁶ (µg/L)	10	0.02	2.4	2.9	6.07	ND	ND	2014	No	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits	
Fluoride (mg/L)	2	1	ND	0.15	0.43	0.3 - 0.76	0.76	2021	No	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories	
Nitrate (mg/L)	10	10	0.59	2.8	0.23	ND - 0.92	0.92	2023	No	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits	

1. AVEK data, including AVEK Plant Average and AVEK Wells Average, were obtained from 2023 & 2021 Kern County Annual Water Quality Report. Some contaminants are not required to be tested every year, thus this data was obtained from the 2021 report and earlier reports.
2. Distribution System refers to sampling that are taken at final point of delivery to end user through out the base.
3. In 2023, there were 5 total samples that tested positive for bacteria. Our assessment indicates that weather conditions like extensive rainfall, stagnant water or error in sampling protocol may have affected the sampling results. In November a repeat sample tested positive for E.coli bacteria after collection of a total coliform positive routine sample. E.coli can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems. This positive result caused citation 04_19_24C_001 to be issued and a Tier 1 public notification and boil water notice to be administered on 17 November 2023. After extensive testing and cleaning of the entire distribution system and water sources, the results indicated that there was no longer bacteria present. The boil water notice was lifted on 1 December 2023. A level 2 site assessment was administered by the State of California to identify any problems through an assessment of the distribution system. The results of the assessment set course of action items for the distribution system to include updating of the sampling plan, cleaning the water storage tanks at the blending site, and training the individual that collected the positive E.coli sample, and ensuring that the water system notify the public within 24 hours. The sampling plan and training for the individual was submitted 15 April 2024. The water storage tanks were cleaned on 22 March 2024. We will also ensure that the 24-hour requirement is not exceeded in the future. No illnesses were reported as a result of the E.coli finding.
4. Blended water is the water delivered to the end user. Because of the high levels of arsenic in the wells, EAFB is on an approved plan by the State Water Resources Control Board to blend with AVEK water. The blending ratio fluctuates seasonally, however in recent years AVEK water has been most of the water used. Water quality compliance is reported based on blended water results.
5. Water provided to area around West Base is supply by a different source from the rest of Main Base, thus we have separate those sampling data to better represent West Base water quality.
6. There is currently no MCL or sampling requirement for hexavalent chromium. The previous MCL of 0.010 mg/L (10 ppb) was withdrawn on September 11, 2017. Our last sampling of hexavalent chromium was from 2014.

<<< Table Continues on Next Page >>>

Water Quality Data Table Continued

Contaminant	MCL	PHG	AVEK Plant Average	AVEK Wells Average	EAFB Average	EAFB Range	West Base Average	Sample Date	Violation	Major Sources in Drinking Water
Disinfectants & Disinfection By Products⁷ (PDWS)										
Total Trihalomethanes (µg/L)	LRAA ⁷ : 80		#46	NA	#52.1	15 - 120	NA	2023	No	Byproduct of drinking water disinfection
Haloacetic Acids (µg/L)	LRAA ⁷ : 60		#11	NA	#6.9	ND - 23	NA	2023	No	Byproduct of drinking water disinfection
Lead and Copper⁸ (PDWS)										
Lead (µg/L)	AL=90% of bldgs. <15	0.2	ND	ND	ND	30 sites sampled; 0 sites over AL	N/A	2021	No	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (mg/L)	AL=90% of bldgs. <1.3	0.3	ND	ND	0.37	30 sites sampled; 0 sites over AL	N/A	2021	No	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Radioactive Contaminants (PDWS)										
Gross Alpha (pCi/L)	15	0.2	ND	5.3	1.67	ND - 6.6	6.6	2021	No	Erosion of natural deposits
Combined Uranium (pCi/L)	20	0.3	3.5	N/A	3	2.9 - 3.1	2.9	2021	No	Erosion of natural deposits
Tritium (pCi/L)	20000	400	N/A	5.9	ND	ND	ND	2021	No	Decay of natural and man-made deposits
5th Unregulated Contaminant Monitoring Rule										
PFOS (ppt)	4	1	N/A	N/A	ND	ND	ND	2023	No	Industrial sites, fire training, landfills, wastewater treatment
PFOA (ppt)	4	0.007	N/A	N/A	ND	ND	ND	2023	No	Industrial sites, fire training, landfills, wastewater treatment
Contaminant	Secondary MCL ⁹		AVEK Plant Average	AVEK Wells Average	EAFB Average	EAFB Well Range	West Base Well Average	Sample Date	Violation	Major Sources in Drinking Water
Secondary Standard Contaminants (SDWS)										
Alkalinity Bicarbonate (mg/L)	N/A		72	180	122	110 - 140	140	2021	No	Erosion of minerals and natural carbonate deposits
Calcium (mg/L)	N/A		31	75	34	18 - 67	31	2021	No	Leaching from natural deposits
Chloride (mg/L)	250		46	70	49.9	5.2 - 180	72	2021	No	Runoff/leaching from natural deposits; seawater influence
Hardness Total as CaCO ₃ (mg/L)	N/A		110	220	88	54 - 180	94	2021	No	The sum of polyvalent cations present in the water, generally naturally occurring magnesium and calcium
Iron (µg/L)	300		ND	ND	170	ND - 280	150	2021	No	Leaching from natural deposits; industrial wastes
Magnesium (mg/L)	N/A		8	8.5	2.6	1.8 - 3.7	3.6	2021	No	Erosion of minerals and natural deposits
Manganese (µg/L)	50		ND	ND	2.2	ND - 13	ND	2021	No	Erosion of minerals and natural deposits; steel production and mining.
Sodium (mg/L)	N/A		34	43	82.2	42 - 140	120	2021	No	Leaching from natural deposits
Specific Conductance (µs/cm)	1		420	460	523	320 - 960	730	2021	No	Substances that form ions when in water; seawater influence
Sulfate (mg/L)	500		42	56	82	53 - 140	140	2021	No	Runoff/leaching from natural deposits; industrial wastes
TDS (m/L)	1000		210	390	336.6	200 - 590	490	2021	No	Runoff/leaching from natural deposits; industrial wastes

7. Disinfection Byproduct (DBPs), which includes Trihalomethanes and Haloacetic Acids. They are formed when disinfectant like chlorine is used to control microbial pathogens combine with naturally occurring materials found in source water. #. Indicating the Locational Running Annual Average (LRAA) at sampling locations.

8. Lead and Copper is regulated by ensuring the 90th percentile of sample result is under the AL. In this case, all of our test for Lead came back as ND but we are still require to report them. Sampling is conducted every 3 years. The most recent samples are from August 2021. All drinking water taps were sampled at Desert High School in 2023 with no Lead detected.

9. Secondary MCLs do not have PHGs or MCLGs because secondary MCLs are set to protect the aesthetics of water and PHGs and MCLGs are based on health concerns.

Additional Information Regarding 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. 412th Bioenvironmental Engineering Flight and 412th Civil Engineering Squadron are 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 (800-426-4791) or at <http://www.epa.gov/lead>.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and/or flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the U.S. EPA Safe Drinking Water Hotline (1-800-426-4791).

Additional Information Regarding Fluoride

The AFRL water systems contain naturally occurring fluoride. AFRL does not add additional fluoride to the water system due to State requirements and the scope/size of the EAFB water distribution system. The natural level of fluoride present in the water system is below the maximum contamination limit (MCL) of 2.0 parts per million (ppm).

In 2015, the U.S. Department of Health and Human Services released a Public Health Service recommendation of 0.7 ppm as the optimal fluoride level in drinking water to prevent tooth decay. Your local dentist or pediatrician can prescribe daily fluoride brushing, tablets, or drops for you and your children to ensure you receive enough fluoride.

Tips for Protecting Your Water

- Eliminate excess use of lawn and garden fertilizers and pesticides – they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- Dispose of chemicals properly; take used motor oil to a recycling center.

Additional Information Regarding Arsenic

While your drinking water meets 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.

For more information regarding this report, please contact either:

- 412th Operational Medical Readiness Squadron – Bioenvironmental Engineering Flight (661-277-3272)
- 412th Test Wing – Public Affairs (661-277-1454)

