

## APPENDIX F: CCR Certification Form (Suggested Format)

**Consumer Confidence Report  
Certification Form**  
(to be submitted with a copy of the CCR)

(To certify electronic delivery of the CCR, use the certification form on the State Water Board's website at [http://www.swrcb.ca.gov/drinking\\_water/certlic/drinkingwater/CCR.shtml](http://www.swrcb.ca.gov/drinking_water/certlic/drinkingwater/CCR.shtml))

Water System Name:	Northrop Grumman Corporation - Palmdale
Water System Number:	1910097

The water system named above hereby certifies that its Consumer Confidence Report was distributed on 06/20/2023 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.

Certified by:
Name: Cory Meza
Signature: <i>Cory Meza</i>
Title: Sr. Principal Environmental Engineer
Phone number: 661-540-0482
Date: 06/20/2023

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

- ☐ CCR was distributed by mail or other direct delivery methods. Specify other direct delivery methods used: **[INSERT DELIVERY METHODS]**
- ☒ "Good faith" efforts were used to reach non-bill paying consumers. Those efforts included the following methods:
  - ☒ Posting the CCR on the Internet at Company Intranet Page – [Palmdale Water Quality Management Program](#)
  - ☐ 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)
  - ☐ 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 address: **[INSERT INTERNET ADDRESS]**
- ☐ *For investor-owned utilities:* Delivered the CCR to the California Public Utilities Commission

This form is provided as a convenience for use to meet the certification requirement of the California Code of Regulations, section 64483(c)

## 2022 Consumer Confidence Report

### Water System Information

Water System Name: Northrop Grumman Corporation Palmdale

Report Date: June 14, 2023

Type of Water Source(s) in Use: Five (5) State-Approved Wells

Name and General Location of Source(s): Two wells are located at Site 3 and are designated North and South; two wells are located at Site 4 and are designated East and West; one well is located at Site 8 and is designated East

Drinking Water Source Assessment Information: An Air-Force led Water Supply Study was conducted in 2010. Study conducted on entire AFP-42 facilities, including Site 3, 4, and 8. A Water Source Assessment was conducted in 2001. No contaminants were found but source wells are vulnerable to the following operations: Airports (Maintenance/Fueling areas) and military installations. Both reports can be obtained from Cory Meza (Northrop Grumman)

Time and Place of Regularly Scheduled Board Meetings for Public Participation: N/A

For More Information, Contact: Cory Meza, (661) 540-0482

### About This Report

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 to December 31, 2022 and may include earlier monitoring data.

### Importance of This Report Statement in Five Non-English Languages (Spanish, Mandarin, Tagalog, Vietnamese, and Hmong)

Language in Spanish: Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Northrop Grumman Corporation a 3520 E Ave M Palmdale, CA 93550 para asistirlo en español.

Language in Mandarin: 这份报告含有关于您的饮用水的重要讯息。请用以下地址和电话联系 Northrop Grumman Corporation 以获得中文的帮助: 3520 E Ave M Palmdale, CA 93550.

Language in Tagalog: Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa Northrop Grumman Corporation 3520 E Ave M Palmdale, CA 93550 o tumawag sa (661) 540-0482 para matulungan sa wikang Tagalog.

Language in Vietnamese: Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ Northrop Grumman Corporation tại 3520 E Ave M Palmdale, CA 93550 để được hỗ trợ giúp bằng tiếng Việt.

Language in Hmong: Tsab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau Northrop Grumman Corporation ntawm 3520 E Ave M Palmdale, CA 93550 rau kev pab hauv lus Askiv.

## Terms Used in This Report

Term	Definition
Level 1 Assessment	A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
Level 2 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.
Maximum Contaminant Level (MCL)	The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.
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 (U.S. EPA).
Maximum Residual Disinfectant Level (MRDL)	The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
Maximum Residual Disinfectant Level Goal (MRDLG)	The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
Primary Drinking Water Standards (PDWS)	MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.
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.
Secondary Drinking Water Standards (SDWS)	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.
Treatment Technique (TT)	A required process intended to reduce the level of a contaminant in drinking water.
Variances and Exemptions	Permissions from the State Water Resources Control Board (State Board) to exceed an MCL or not comply with a treatment technique under certain conditions.
ND	Not detectable at testing limit.
ppm	parts per million or milligrams per liter (mg/L)
ppb	parts per billion or micrograms per liter (µg/L)

Term	Definition
ppt	parts per trillion or nanograms per liter (ng/L)
ppq	parts per quadrillion or picogram per liter (pg/L)
pCi/L	picocuries per liter (a measure of radiation)

## Sources of Drinking Water and Contaminants that May Be Present in Source 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 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.

## Regulation of Drinking Water and Bottled Water Quality

In order to ensure that tap water is safe to drink, the U.S. EPA and the State Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

## About Your Drinking Water Quality

### Drinking Water Contaminants Detected

Tables 1, 2, 3, 4, 5, 6, and 8 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do

not change frequently. Some of the data, though representative of the water quality, are more than one year old. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

**Table 1. Sampling Results Showing the Detection of Coliform Bacteria**

Complete if bacteria are detected.

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
<i>E. coli</i>	(In the year) 0	0	(a)	0	Human and animal fecal waste

(a) Routine and repeat samples are total coliform-positive and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

**Table 2. Sampling Results Showing the Detection of Lead and Copper**

Complete if lead or copper is detected in the last sample set.

Lead and Copper	Sample Date	No. of Samples Collected	90 <sup>th</sup> Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	04/05/2022	40	ND	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	04/05/2022	40	.12	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

**Table 3. Sampling Results for Sodium and Hardness**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	10/05/2022	31	24-39	None	None	Salt present in the water and is generally naturally occurring

Hardness (ppm)	10/05/2022	105	35-210	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
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**Table 4. Detection of Contaminants with a Primary Drinking Water Standard**

<b>Chemical or Constituent (and reporting units)</b>	<b>Sample Date</b>	<b>Level Detected</b>	<b>Range of Detections</b>	<b>MCL [MRDL]</b>	<b>PHG (MCLG) [MRDLG]</b>	<b>Typical Source of Contaminant</b>
Nitrate, as N (mg/L)	Quarterly	3.3	ND – 6.4	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Fluoride (mg/L)	10/05/2022	0.16	ND – 0.25	2.0	1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Copper (mg/L)	10/05/2022	0.18	ND – 0.56	AL = 1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

HAA5 [Sum of 5 Haloacetic Acids] (µg/L)	10/05/2022	1.6	ND – 1.6	60	N/A	Byproduct of drinking water disinfection
TTHMs [Total Trihalomethanes] (µg/L)	10/05/2022	16.4	ND – 16.4	80	N/A	Byproduct of drinking water disinfection

**Table 5. Detection of Contaminants with a Secondary Drinking Water Standard**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Iron (µg/L)	10/05/2022	ND	ND	300 µg/L		Leaching from natural deposits; industrial wastes
Manganese (µg/L)	10/05/2022	ND	ND	50 µg/L		Leaching from natural deposits
Zinc (µg/L)	10/05/2022	ND	ND	5.0 mg/L		Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids [TDS] (mg/L)	10/05/2022	233.3	130 – 410	1,000 mg/L		Runoff/leaching from natural deposits
Specific Conductance (µS/cm)	10/05/2022	360.0	240 – 560	1,600 µS/cm		Substances that form ions when in water; seawater influence
Chloride (mg/L)	10/05/2022	27.23	5.7 – 62	500 mg/L		Runoff/leaching from natural deposits; seawater influence
Sulfate (mg/L)	10/05/2022	21.7	12 – 38	500 mg/L		Runoff/leaching from natural deposits; industrial wastes



**Table 6. Detection of Unregulated Contaminants**

<b>Chemical or Constituent (and reporting units)</b>	<b>Sample Date</b>	<b>Level Detected</b>	<b>Range of Detections</b>	<b>Notification Level</b>	<b>Health Effects</b>
Perfluorooctanesulfonic acid (PFOS) (ppt)	Monthly	ND (Across <u>all</u> water sources) (QRAA as of March 2023)	ND (Across <u>all</u> water sources) (2022-2023 YTD)	6.5 (ppt)  (Quarterly Running Annual Average, QRAA)	Perfluorooctanesulfonic acid exposures resulted in immune suppression and cancer in laboratory animals.
Perfluorooctanoic acid (PFOA) (ppt)	Monthly	7.24 – Site 4 West Well 5.03 – Site 4 East Well ND – Site 3 and 8 wells  (QRAA as of March 2023)	6.0 – 8.4 – Site 4 West Well 4.0 – 5.8 – Site 4 East Well ND – Site 3 and 8 wells  (2022-2023 YTD)	5.1 (ppt)  (Quarterly Running Annual Average, QRAA)	Perfluorooctanoic acid exposures resulted in increased liver weight and cancer in laboratory animals.
Perfluorohexanesulfonic acid (PFHxS) (ppt)	Monthly	3.84 – Site 4 West Well 2.55 – Site 4 East Well ND – Site 3 and 8 wells  (Monthly Average as of May 2023)	3.3 – 4.3 – Site 4 West Well 2.3 – 2.9 – Site 4 East Well ND – Site 3 and 8 wells  (2023 YTD)	3.0 (ppt)  (Single or Confirmed Sample)	Perfluorohexanesulfonic acid exposures resulted in decreased total thyroid hormone in male rats.
Perfluorobutanesulfonic acid (PFBS) (ppt)	Monthly	67.6 – Site 4 West Well 6.7 – Site 4 East Well ND – Site 3 and 8 wells  (Monthly Average as of May 2023)	51 - 110 – Site 4 West Well 4.0 – 8.9 – Site 4 East Well ND – Site 3 and 8 wells  (2023 YTD)	500 (ppt)  (Single or Confirmed Sample)	Perfluorobutanesulfonic acid exposures resulted in decreased thyroid hormone in pregnant female mice.

**Additional General Information on 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 U.S. EPA's Safe Drinking Water Hotline (1-800-426-4791).

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. U.S. EPA/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).

**Lead-Specific Language:** 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. [Enter Water System's Name] 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. [Optional: 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 (1-800-426-4791) or at <http://www.epa.gov/lead>.

**State Revised Total Coliform Rule (RTCR):** If *E. coli* was detected and the *E. coli* MCL was not violated, you may include a statement that explains that although *E. coli* was detected, the water system is not in violation of the *E. coli* MCL.

### Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

**Table 7. Violation of a MCL, MRDL, AL, TT or Monitoring Reporting Requirement**

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
None	N/A	N/A	N/A	N/A

### For Water Systems Providing Groundwater as a Source of Drinking Water

**Table 8. Sampling Results Showing Fecal Indicator-Positive Groundwater Source Samples**

Microbiological Contaminants (complete if fecal-indicator detected)	Total No. of Detections	Sample Dates	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
<i>E. coli</i>	(In the year) 0	Bi-Weekly	0	(0)	Human and animal fecal waste
Enterococci	(In the year) N/A		TT	N/A	Human and animal fecal waste
Coliphage	(In the year) N/A		TT	N/A	Human and animal fecal waste

**Summary Information for Fecal Indicator-Positive Groundwater Source Samples, Uncorrected Significant Deficiencies, or Violation of a Groundwater TT**

**Special Notice of Fecal Indicator-Positive Groundwater Source Sample:** None

**Special Notice for Uncorrected Significant Deficiencies:** None

**Table 9. Violation of Groundwater TT**

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
None				

**For Systems Providing Surface Water as a Source of Drinking Water**

**Table 10. Sampling Results Showing Treatment of Surface Water Sources**

Treatment Technique <sup>(a)</sup> (Type of approved filtration technology used)	N/A
Turbidity Performance Standards <sup>(b)</sup> (that must be met through the water treatment process)	<p>Turbidity of the filtered water must:</p> <p>1 – Be less than or equal to [Enter Turbidity Performance Standard to Be Less Than or Equal to 95% of Measurements in a Month] NTU in 95% of measurements in a month.</p> <p>2 – Not exceed [Enter Turbidity Performance Standard Not to Be Exceeded for More Than Eight Consecutive Hours] NTU for more than eight consecutive hours.</p> <p>3 – Not exceed [Enter Turbidity Performance Standard Not to Be Exceeded at Any Time] NTU at any time.</p>
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	

Highest single turbidity measurement during the year	
Number of violations of any surface water treatment requirements	

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

(b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

### Summary Information for Violation of a Surface Water TT

**Table 11. Violation of Surface Water TT**

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
None				

### Summary Information for Operating Under a Variance or Exemption

N/A

### Summary Information for Revised Total Coliform Rule Level 1 and Level 2 Assessment Requirements

If a water system is required to comply with a Level 1 or Level 2 assessment requirement that is not due to an *E. coli* MCL violation, include the following information below [22 CCR section 64481(n)(1)].

#### Level 1 or Level 2 Assessment Requirement not Due to an *E. coli* MCL Violation

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

The water system shall include the following statements, as appropriate:

During the past year we were required to conduct 1 Level 1 assessment(s). 1 Level 1 assessment(s) were completed. In addition, we were required to take 3 corrective actions and we completed 3 of these actions.

During the past year 0 Level 2 assessments were required to be completed for our water system. 0 Level 2 assessments were completed. In addition, we were required to take 0 corrective actions and we completed 0 of these actions.