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OCEANO COMMUNITY SERVICES DISTRICT

To Our Customers:

The Oceano Community Services District (OCS D) is pleased to present this annual report describing the quality of your drinking water. This report will answer questions and describe the quality of the drinking water in Oceano.

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

What is the source of my drinking water?

Oceano receives its drinking water from three water production wells, all located within the District boundaries. In addition, the District purchases treated surface water from the Lopez Project and the State Water Project. Both surface water sources are delivered through a single pipeline to the District's Water Yard located at 19th Street near Wilmar Avenue. In 2019 the District's water system used State and Lopez Project Water supplemented with well water.

Where is Oceano's drinking water tested?

Water samples are collected weekly by OCS D's Utility Systems Operators. Federal and State requirements require that all regulatory analyses follow approved procedures and be performed by certified labs. OCS D's water samples are collected and analyzed by Clinical Laboratory of San Bernardino, Inc., which has locations in San Bernardino and Lompoc, CA. The lab is certified by the SWRCB (State Water Resources Control Board) to conduct bacteriological and chemical analyses.

2019 Water Statistics

- Lopez Project Water Purchased
 - ⇒ 169.9 Million Gallons (521.5 Acre-Feet)
- State Project Water Purchased
 - ⇒ 3.58 Million Gallons (10.98 Acre-Feet)
- Water Pumped from District Wells
 - 48 Million Gallons (147.37 Acre-Feet)
- Total Oceano Water Production
 - 221.48 Million Gallons (679.85 Acre-Feet)

Who operates the Oceano water system?

The Oceano Community Services District employs four full-time Utility Systems Operators (USO). All USOs who work for the District are required to be certified by the Division of Drinking Water of the State Water Resource Control Board.

Oceano Community Services District
1655 Front Street/P.O. Box 599
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Where can the community participate in decisions regarding water quality issues?

The Oceano Community Services District Board of Directors meets at the District Board Room on the second and fourth Wednesday of each month. Meeting dates and agendas are posted in the District office located at 1655 Front Street, Oceano, CA as well as on the website at www.oceanocsd.org.

Additional General Information on Drinking Water

All 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 the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

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Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-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 reduce the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Additionally, the Office of Ground Water and Drinking Water at EPA maintains a website with useful information on drinking water. The address is <http://www.epa.gov/OGWDW/>. Additional information can be obtained by calling Tony Marraccino, Utility System Operator and Supervisor for the Oceano CSD or come by the District Office at 1655 Front Street, Oceano. A source water assessment was conducted for OCS's three active wells in March, 2001. No contaminants were detected in the water supply, however the source is considered most vulnerable to the following activities: sewer collection systems, utility station maintenance areas, and automobile and historic gas stations. A completed copy of the Assessment may be viewed at the District office, 1655 Front Street, Oceano. Additional information also may be viewed at DHS-DWFOB, 1180 Eugenia Place, Suite 200, Carpinteria, CA 93013

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Maximum Contaminant Level Goal (MCLG) and Public Health Goal (PHG) – The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the Federal Environmental Protection Agency and PHGs are set by the California Environmental Protection Agency.

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.

Primary Drinking Water Standards (PDWS) – MCLs for contaminants that affect health along with their monitoring and reporting requirements and water-treatment requirements.

Secondary Drinking Water Standards (SDWS) – MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with a SDWS 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.

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

CU: Color units

cfu: Colony forming units

Micro ohms: measure of electrical conductance in water.

NC: Not collected.

NS: (No Standard): Contaminant for which there is no established MCL. **ND:**

(Not Detected): Contaminant is not detectable at testing limit. **pCi/L:**

picoCuries per liter (a measure of radiation)

ppm: parts per million, or milligrams per liter (mg/L)

ppb: parts per billion, or micrograms per liter (µg/L)

NTU: Nephelometric Turbidity Unit

TON: Threshold Odor Number

LI: Langelier Index; Noncorrosive = Any positive value

Corrosive = Any negative value

NA: (Not Analyzed) Contaminant was not analyzed **HPC:**

Heterotrophic Plate Count

TERMS USED IN THIS REPORT:

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, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- *Pesticides and herbicides*, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- *Organic chemical contaminants*, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- *Radioactive contaminants* which 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 USEPA and the Division of Drinking Water State Water Resource Control Board prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water which must provide the same protection for public health.

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Tables 1 through 6 list all of the drinking water contaminants that were detected from January 2018 through December 2018, unless otherwise noted. The presence of these contaminants in water does not necessarily indicate that the water poses a health risk. The Department requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, may be more than one year old.

Treatment of Surface Water Sources		
Turbidity Performance Standard - Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of the effectiveness of the surface water filtration system. Turbidity of filtered water must: Be less than or equal to < 0.3 NTU in 95% of measurements in a month and < 1 NTU every 4 hours.	Treatment Technique for Lopez WTP	Treatment Technique for CCWA State Water
Lowest monthly percentage of samples that met Turbidity Performance Standard 1.	100%	100%
Highest single turbidity measurement during the year.	0.055 NTU	0.03 – 0.1 NTU
The number of violations of any surface water treatment requirement.	0	0

Lead and Copper Sampling								
Lead & Copper	Sample Date	Number of Samples	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	MCLG	No. of Schools tested*	Typical Source of Contaminant
Well Lead (ppm)	2017	20	0.705	0	15	NA	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.
Well Copper (ppm)	2017	20	0	N/A	1.3	NA	2	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Lopez Lead (ppm)	2019	6	2.6	0	15	NA	1	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.
Lopez Copper (ppm)	2019	6	0.023	0	1.3	NA	1	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.

Detection of Contaminants without a Drinking Water Standard				
Contaminant (reporting units)	Lopez Surface Water	CCWA State Water	Well Water	Potential Source of Contamination
	Range	Range	Range	
Alkalinity as CaCO ₃ (ppm)	190-250	30-80	440	Runoff/leaching from natural deposits; seawater influence.
Calcium (ppm)	70 - 92	19	120	Runoff/leaching from natural deposits; seawater influence.
Hardness (ppm)	300-390	26 - 144	520	Generally found in ground and surface water.
Magnesium (ppm)	31-40	12	55	Runoff/leaching from natural deposits; seawater influence.
pH	7.83 – 8.37	7.7 - 8.7	6.3	Runoff/leaching from natural deposits; seawater influence.
Potassium (ppm)	4	3.1	2.5 – 2.8	Runoff/leaching from natural deposits; seawater influence.
Sodium (ppm)	29-36	58	49	Runoff/leaching from natural deposits; seawater influence.
Total Organic Carbon (TOC) (ppm)	---	1.5 - 3	---	Various natural and man-made sources.

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Detection of Contaminants with a Secondary Drinking Water Standard (aesthetics)					
Contaminant		Lopez Surface Water	CCWA State Water	Well Water	Potential Source of Contamination
(reporting units)	MCL	Range	Range	Range	
Aluminum (ppb)	200	ND – 46	ND - 0.094	ND	Naturally present in the environment and residue from water treatment processes.
Chloride (ppm)	500	Avg. 41	13 - 146	38	Runoff/leaching from natural deposits; seawater influence.
Color (Color Units)	3	2	ND	ND	Naturally-occurring organic materials.
Copper (ppm)	1.0	Avg. 0 .122	ND	ND	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Corrosivity	Non-corrosive	---	12	11.6	A measurement of the aggressivity index of water.
Odor – Threshold	3	1.0 – 4.0	ND	2	Naturally-occurring organic materials.
Specific Conductance (micro ohms)	1600	Avg. 790	138 - 762	1100	Runoff/leaching from natural deposits; seawater influence.
Sulfate (ppm)	500	Avg. 129	46	170	Runoff/leaching from natural deposits; industrial wastes.
Turbidity (NTU)	5	0.01 - 0.89	ND – 0.12	0.35	Soil runoff/Presence of colloidal and/or suspended matter.
Total Dissolved Solids (ppm)	1000	490 - 550	260	630	Runoff/leaching from natural deposits.
Manganese (ppb)	50	---	ND	38	Runoff/leaching from natural deposits; seawater influence.
Iron (ppm)	0.3	---	ND	150	Leaching from natural deposits; industrial wastes.

Detections of unregulated constituents								
	State MCL	PHGL (MCLG)	State DLR	Notification Level	CCWA State Water	Lopez Range Average	Well Water	Potential Source of Contamination
Vanadium ppb	N/A	---	---	50	---	---	4.1	Naturally present in the environment. Byproduct of steel and chemical manufacturing.
Geosmin	N/A	1	ND - 2	---	ND-6 2.8	---	---	Metabolic byproduct of blue green algae.
2-Methylisoborneol	N/A	4	ND - 9	---	ND – 1 0.2	---	---	Metabolic byproduct of blue green algae.

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Microbiological Contaminants			CCWA State Water	Lopez Surface Water	Well Water	Potential Source of Contamination
Contaminant (reporting units)	MCL	PHG(MCLG)	PHG (MCLG)	Range	Range	
Total Coliform Bacteria	MCL (systems collecting less than 40 samples per month): More than 1 sample in a month with a detection; (systems collecting more than 40 samples per month): More than 5% of monthly samples are positive.	(0)	(0)	ND	ND	Naturally present in the environment.
Heterotrophic Plate Count (CFU/mL)	TT = adequate disinfection, <500	---	ND - 11	ND - 2	---	Naturally present in the environment.

Detection of Contaminants with a <u>Primary</u> Drinking Water Standard						
Contaminant		Lopez Surface Water		CCWA State Water	Well Water	Potential Source of Contamination
(reporting units)	MCL	PHG (MCLG)	Range	Range	Range	
Aluminum (ppm)	1.	0.6	ND – 0.047	ND - 0.094	ND	Erosion of natural deposits; residue from some surface water treatment processes.
Arsenic (ppb)	10.0	.0004	4.0 – 5.3	ND	2.5	Runoff from orchards; natural deposits; glass & electronics production wastes.
Barium (ppm)	1.	2	0.027	ND	ND	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits.
Cadmium (ppb)	5	0.04	---	ND	ND – 0.0014	Internal corrosion of galvanized pipes; erosion of natural deposits; discharge from electroplating and industrial chemical factories, and metal refineries; runoff from waste batteries and paints.
Fluoride (ppm)	2.0	1.0	Avg. 0.26	ND	0.14	Erosion of natural deposits.
Lead (ppb)	---	0.2	---	ND	ND	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.
Gross Beta particle activity (pCi/L)	50	(0)	ND	ND	---	Decay of natural and man-made products.
Radium 226 (pCi/L)	---	0.05	---	---	0.038	Erosion of natural deposits.
Gross Alpha (pCi/L)	---	---	0.028 – 3.15 (2013)	ND	5.7 – 8.8	Erosion of natural deposits.

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Detection of Contaminants with a <u>Primary Drinking Water Standard</u> (continued)			CCWA State Water	Lopez Surface Water	Well Water	Potential Source of Contamination
Contaminant (reporting units)	MCL	PHG (MCLG)	Range	Range	Range	
Uranium (pCi/L) (2017)	20	0.43	---	---	5.0 – 8.3	Erosion of natural deposits.
Total Trihalomethanes (ppb) (Dist. Sample; compliance based on running annual average)	RAA 80	----	24 - 75 LRAA 47.8	29.4 – 67.9 29.7 – 70.9	3.2 – 41.5 LRAA 41.5	By-product of drinking water chlorination
Haloacetic Acids (ppb) (Dist. Sample; compliance based on running annual average)	60	0	7.4 – 25 LRAA 15.5	17.2 – 4.1 LRAA 26.2	3.3 – 20.2 LRAA 20.2	By-product of drinking water chlorination
Chlorine Residual	MRDL = 4.0 as Cl ₂	MRDL = 4.0 as Cl ₂	0.33 - 3.5 2.47	2.03 – 3.60 0.32 – 3.13	---	Drinking water disinfectant added for treatment.
Chlorite (ppm)	1.0 (delivered and distribution avg.)	0.05	---	0.44-0.63 0.32-0.63	---	Byproduct of drinking water disinfection.
Chlorate (ppb)	RAL = 800	---	---	210-579 212-647	---	Byproduct of drinking water disinfection.
Chlorine Dioxide (ppb)	MRDL = 800 as ClO ₂	[800]	---	ND-130 ND-130	---	Drinking water disinfectant added for treatment.
Nitrate as N (ppm)	10	10	ND	---	ND	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

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*** Any violation of an MCL or AL is asterisked. Additional information is provided below.**

Our Well Water tested above the MCL for Iron. Iron is considered a secondary standard. Secondary standards do not pose health risks and reflect the overall aesthetic of the drinking water. Iron in drinking water can occur from the leaching from natural deposits; industrial wastes.

Infants and children who drink water containing lead in excess of the action level may experience delays in their physical or mental development. Children may show slight deficits in attention span and learning abilities. Adults who drink this water over many years may develop kidney problems or high blood pressure. 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. Oceano CSD 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 or at <http://www.epa.gov/safewater/lead>.