PINEHILL WATERWORKS DISTRICT
Public Water Supply ID: LA1017027

Consumer Confidence Report

2021 CCR

Additional Information and Electronic Copies can be found at www.ldh.la.gov/ccr

What you need to do:

Step 1: Review base report (numbered pages) for errors. If you are a surface water system, you must insert the turbidity data.

UCMR 4: If you have received data pertaining to the UCMR 4 list, that data must be included in the CCR Report. Additional information can be found at: www.ldh.la.gov/ccr

Step 2: Distribute completed report to your customers as outlined on the CCR Certification of Distribution Form no later than June 30, 2022.

Step 3: A completed CCR Certification of Distribution Form including a copy of the final CCR report shall be submitted to the State at the address provided on the form no later than September 30, 2022.

Notes:
This page is not part of your CCR; it is only the instruction page. The pages that are numbered in the upper right hand corner are the report pages.

The Water We Drink

PINEHILL WATERWORKS DISTRICT
Public Water Supply ID: LA1017027

We are pleased to present to you the Annual Water Quality Report for the year 2021. This report is designed to inform you about the quality of your water and services we deliver to you every day (Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien). Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

Our water source(s) are listed below:

Source Name	Source Water Type
HEROLD #2 WELL	Ground Water
CROWSON #6 WELL	Ground Water
HEROLD #3 WELL	Ground Water
CROWSON #2 WELL	Ground Water
CROWSON #5 WELL	Ground Water

Our water system also purchases water as listed below:

Buyer Name	Seller Name
PINEHILL WATERWORKS DISTRICT	SHREVEPORT WATER SYSTEM
PINEHILL WATERWORKS DISTRICT	BLANCHARD WATER SYSTEM

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 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 stormwater 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 stormwater 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 stormwater runoff, and septic systems.

Radioactive Contaminants – which can be naturally-occurring or be the result of oil and gas production and mining activities.

A Source Water Assessment Plan (SWAP) is now available from our office. This plan is an assessment of a delineated area around our listed sources through which contaminants, if present, could migrate and reach our source water. It also includes an inventory of potential sources of contamination within the delineated area, and a determination of the water supply's susceptibility to

contamination by the identified potential sources. According to the Source Water Assessment Plan, our water system had a susceptibility rating of 'MEDIUM'. If you would like to review the Source Water Assessment Plan, please feel free to contact our office.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health. We want our valued customers to be informed about their water utility. If you have any questions about this report, want to attend any scheduled meetings, or simply want to learn more about your drinking water, please contact ANTHONY STARKS at 318-425-7586.

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. PINEHILL WATERWORKS DISTRICT is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The Louisiana Department of Health routinely monitors for constituents in your drinking water according to Federal and State laws. The tables that follow show the results of our monitoring during the period of January 1st to December 31st, 2021. 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.

In the tables below, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms, we've provided the following definitions:

Parts per million (ppm) or Milligrams per liter (mg/L) – one part per million corresponds to one minute in two years or a single penny in $10,000.

Parts per billion (ppb) or Micrograms per liter (ug/L) – one part per billion corresponds to one minute in 2,000 years, or a single penny in $10,000,000.

Picocuries per liter (pCi/L) – picocuries per liter is a measure of the radioactivity in water.

Treatment Technique (TT) – an enforceable procedure or level of technological performance which public water systems must follow to ensure control of a contaminant.

Action level (AL) – the concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

Maximum contaminant level (MCL) – the "Maximum Allowed" MCL is the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

Maximum contaminant level goal (MCLG) – the "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLG's allow for a margin of safety.

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.

Level 1 assessment – 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 very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

During the period covered by this report we had below noted violations of drinking water regulations.

Compliance Period	Analyte	Type
2/12/2021	LEAD & COPPER RULE	LEAD CONSUMER NOTICE (LCR)

Our water system tested a minimum of 5 samples per month in accordance with the Total Coliform Rule for microbiological contaminants. With the microbiological samples collected, the water system collects disinfectant residuals to ensure control of microbial growth.

Disinfectant	Date	HighestRAA	Unit	Range	MRDL	MRDLG	Typical Source
CHLORAMINE	2021	1.6	ppm	0.02 - 4.5	4	4	Water additive used to control microbes.

In the tables below, we have shown the regulated contaminants that were detected. Chemical Sampling of our drinking water may not be required on an annual basis; therefore, information provided in this table refers back to the latest year of chemical sampling results.

Source Water Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
BARIUM	4/29/2019	0.18	0.076 - 0.18	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
FLUORIDE	4/29/2019	0.28	0.18 - 0.28	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories

Treated Water Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
NITRATE-NITRITE	12/7/2021	0.5	0 - 0.5	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Regulated Contaminants	Collection Date	Water System	Highest Value	Range	Unit	MCL	MCLG	Typical Source
ATRAZINE	8/5/2021	SHREVEPORT WATER SYSTEM	0.052	0 - 0.052	ppb	3	3	Runoff from herbicide used on row crops
FLUORIDE	1/4/2021	SHREVEPORT WATER SYSTEM	0.9	0.9	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
GROSS BETA PARTICLE ACTIVITY	1/5/2021	BLANCHARD WATER SYSTEM	2.24	2.24	pCi/l	50	0	Decay of natural and man-made deposits. Note: The gross beta particle activity MCL is 4 millirems/year annual dose equivalent to the total body or any internal organ. 50 pCi/L is used as a screening level.
NITRATE-NITRITE	1/5/2021	BLANCHARD WATER SYSTEM	0.2	0.2	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Source Water Radiological Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
COMBINED RADIUM (-226 & -228)	4/29/2019	0.972	0.751 - 0.972	pCi/l	5	0	Erosion of natural deposits
GROSS ALPHA PARTICLE ACTIVITY	4/29/2019	1.85	0 - 1.85	pCi/l	15	0	Erosion of natural deposits
GROSS BETA PARTICLE ACTIVITY	4/29/2019	2.54	0 - 2.54	pCi/l	50	0	Decay of natural and man-made deposits. Note: The gross beta particle activity MCL is 4 millirems/year annual dose equivalent to the total body or any internal organ. 50 pCi/L is used as a screening level.

Treated Water Radiological Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
No Detected Results were Found in the Calendar Year of 2021							

Lead and Copper	Date	90TH Percentile	Range	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2018 - 2020	0.4	0 - 0.7	ppm	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
LEAD	2018 - 2020	4	0 - 14	ppb	15	0	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfection Byproducts	Sample Point	Period	Highest LRAA	Range	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	SHEPARD ROAD	2021	27	15.9 - 43.2	ppb	60	0	By-product of drinking water disinfection
TOTAL HALOACETIC ACIDS (HAA5)	WOMACK RD	2021	27	5.6 - 43.4	ppb	60	0	By-product of drinking water disinfection
TTHM	SHEPARD ROAD	2021	18	10.7 - 20.1	ppb	80	0	By-product of drinking water chlorination
TTHM	WOMACK RD	2021	18	6.6 - 18.1	ppb	80	0	By-product of drinking water chlorination

Source Secondary Contaminants	Collection Date	Highest Value	Range	Unit	SMCL
IRON	4/29/2019	0.21	0.083 - 0.21	MG/L	0.3
MANGANESE	4/29/2019	0.027	0.0071 - 0.027	MG/L	0.05
PH	4/29/2019	8.4	8.1 - 8.4	PH	8.5
ZINC	4/29/2019	0.25	0 - 0.25	MG/L	5

Treated Secondary Contaminants	Collection Date	Highest Value	Range	Unit	SMCL
No Detected Results were Found in the Calendar Year of 2021					

Secondary Contaminants	Collection Date	Water System	Highest Value	Range	Unit	SMCL
ALUMINUM	1/4/2021	SHREVEPORT WATER SYSTEM	0.53	0.53	MG /L	0.2
CHLORIDE	1/5/2021	BLANCHARD WATER SYSTEM	31	31	MG /L	250
PH	1/4/2021	SHREVEPORT WATER SYSTEM	8.52	8.52	PH	8.5
SULFATE	1/4/2021	SHREVEPORT WATER SYSTEM	28	28	MG /L	250

In the table below, we have shown the significant deficiencies that were identified during a survey done on the water system that we are currently working to resolve.

Date Identified	Facility	Code	Activity	Due Date	Description
08/11/2021	GST #2	20ST14	IESWTR ADDRESS DEFICIENCIES	11/16/2021	LAC 51:XII.319.D.14 and 337.C - Any vent, overflow, or water level control gauge provided on tanks or other structures containing water for any potable water supply shall be constructed so as to prevent the entrance of birds, insects, dust or other contaminating material. Openings or vents shall face downward and shall be not less than 2 feet above the floor of a pump room, the roof or cover of a tank, the ground surface or the surface of other water supply structures.
08/11/2021	WATER SYSTEM	20MG58	IESWTR ADDRESS DEFICIENCIES	11/16/2021	LAC 51:XII.319.D.2 and LAC 51:XII.135.A - Dedicated standby power shall be provided by any community water supply and any non-community water supply serving a hospital so that water can be treated and/or pumped to the distribution system during power outages to meet the average daily demand during the month of maximum water use. A standby power supply shall be provided through a dedicated portable or in-place auxiliary power of adequate supply and connectivity.

++++++++++++++++Environmental Protection Agency Required Health Effects Language++++++++++++++++
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. EPA/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 (800–426–4791).

Additional Required Health Effects Language:

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

There are no additional required health effects violation notices.

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Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers.

We at the PINEHILL WATERWORKS DISTRICT work around the clock to provide top quality drinking water to every tap. We ask that all our customers help us protect and conserve our water sources, which are the heart of our community, our way of life, and our children's future. Please call our office if you have questions.

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2021 CCR CERTIFICATION OF DISTRIBUTION FORM

PWS ID: LA1017027 **NAME: PINEHILL WATERWORKS DISTRICT**

The Consumer Confidence Report (CCR) must be delivered to your consumers by 06/30/2022 and certification must be submitted to the State no later than 09/30/2022.

The CCR must be distributed with a "good-faith effort" based on the population served by the Community Water System (CWS) as shown:

Population	Delivery Method
4692	**Must mail or otherwise directly deliver one copy of the report to every customer or publish the report in one or more local newspapers serving the area (if publishing in newspaper, the CWS must notify the customers that the report will not be mailed (include in newspaper or in bill)**

As an alternative to mailing the CCR, the CWS has the option of choosing an **electronic delivery method**. On the reverse side of this page, you will find options for electronic delivery that meet the "mail or otherwise directly deliver" requirement of the CCR Rule. If choosing to distribute the report electronically, you must check the option(s) used on the reverse side of this page and complete all required elements. You may also use a combination of the above delivery method and electronic delivery to reach all consumers.

The below noted community public water system confirms that its 2021 Consumer Confidence Report has been prepared and delivered to its consumers in accordance with the appropriate delivery method based on population served. Furthermore, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the primacy agency as well as fulfilling all CCR requirements of CFR Title 40, Part 141.

Certified by: Signature: _____

Printed Name/Job Title: _____ / _____

Date of CCR Report Delivery: ____/____/____ **Type of Delivery:** _____

☐ **(I have attached a copy of the report and notification provided to consumers)**

Direct URL (Electronic delivery only): _____

If the CCR is delivered by posting, mail out, or by hand, a copy of the pamphlet or mail out, even if no changes were made, must be attached to the returned certification form. Copies of the report must be kept for three years and made available to the public or the State upon request. Any questions or requests can be addressed to Spencer Hillyard (spencer.hillyard@la.gov/225-342-0272) or Sean Nolan (sean.nolan@la.gov/225-342-7495).

Electronic copies of the reports can be found in the Consumer Confidence Reports section at http://ldh.la.gov/ccr.

Mail signed and completed form and final copy of report to:

Attn: Spencer Hillyard, CCR Compliance
LDH/OPH Engineering Services
P.O. Box 4489
Baton Rouge, LA 70821-4489

This page is for certification to the State only and is not part of the report.

2021 CCR CERTIFICATION OF DISTRIBUTION FORM

Electronic delivery of the CCR for bill-paying consumers

You may use a combination of electronic delivery and paper delivery methods to best ensure delivery to all consumers served by the water system. (check all that apply to your delivery method)

☐Option 1: Mail Notice[1] – notification that the CCR is on a publically available website[2] via a direct URL

CWS mails to each bill-paying consumer a notification that the CCR is available and provides a **direct** URL to the CCR on a publically available site[1] on the internet where it can be viewed. A URL that navigates to a webpage that requires a consumer to search for the CCR or enter other information **does not** meet the "directly deliver" requirement. The mail method for the notification may be, but is not limited to, a water bill insert, statement on the water bill or community newsletter. Notices should be repeated to ensure awareness by consumers.

☐Option 2: Email Notice[1] – notification that the CCR is on a publically available website[2] via a direct URL

CWS emails to each bill paying consumer a notification that the CCR is available and provides a direct URL to the CCR on a publically available site[1] on the internet. A URL that navigates to a webpage that requires a consumer to search for the CCR or enter other information **does not** meet the "directly deliver" requirement.

☐Option 3: Email – CCR sent as an attachment to the email

CWS emails the CCR as an electronic file email attachment (*e.g.* portable document format (PDF), word document, *etc.*)

☐Option 4: Email – CCR sent as an embedded image in an email

CWS delivers CCR text and tables inserted into the body of an email

[1]The following must be included in the paper/email notice

1. The direct URL to the CCR
2. A short description indicating what the CCR report provides. (see below example and EPA memo at the URL given at the bottom of this page)

Example bill message:
You can view the annual water quality report on-line at "insert your direct url here". This report contains important information about the source and quality of your drinking water. Please contact "insert contact information" if you would like a report delivered to your home.

Note: You must insert your own url address into the message.

3. A means in providing consumers the ability to request a paper copy of the report (*e.g.* return mailer, phone number, *etc.*)

[2]The water system must have control of the publically available website where the CCR is located to ensure continuous display and the ability to make changes as needed. The current CCR must be posted continuously until an updated CCR becomes available.

Note for options 2-4: If a consumer does not have an e-mail or an email is returned as undeliverable, the water system must send a paper copy of the CCR to the consumer.

Additional information and examples of are available for review at https://www.epa.gov/ccr/safe-drinking-water-act-consumer-confidence-report-delivery-options-memorandum