## 2018 Consumer Confidence Report

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| Water System Name: | Lake Elizabeth Mutual Water Company | Report Date: | 4/9/2019 |

*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, 2018 and may include earlier monitoring data.*

**Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Lake Elizabeth Mutual Water Company a 14960 Elizabeth Lake Road, (661) 724-1806 para asistirlo en español.**

**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 Lake Elizabeth Mutual Water Company 以获得中文的帮助 14960 Elizabeth Lake Road, (661) 724-1806**

**Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa Lake Elizabeth Mutual Water Company o tumawag sa 14960 Elizabeth Lake Road, (661) 724-1806 para matulungan sa wikang Tagalog.**

**Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ Lake Elizabeth Mutual Water Company tại 14960 Elizabeth Lake Road, (661) 724-1806 để được hỗ trợ giúp bằng tiếng Việt.**

**Tsab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau Lake Elizabeth Mutual Water Company ntawm 14960 Elizabeth Lake Road, (661) 724-1806 rau kev pab hauv lus Askiv.**

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| Type of water source(s) in use: | | **Surface Water:** State Water Project (Aqueduct) **Ground Water:** Wells | | | | |
| Name & general location of source(s): | | | **Surface Water:** Willow Turnout, Munz Ranch Road | | | |
| **Ground Water:** Brookwood Well and Well #2 are within our service area | | | | | | |
| **Time and place of regularly scheduled board meetings for public participation**: | | | | Annual Shareholder’s Meeting | | |
| is the second Tuesday in June at 6:00 PM at 14960 Elizabeth Lake Rd., Elizabeth Lake, CA 93532 | | | | | | |
| For more information, contact: | Lake Elizabeth Mutual Water Company | | | | Phone: | (661) 724-1806 |

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| **TERMS USED IN THIS REPORT** | |
| **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).  **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.  **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. | **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.  **Regulatory Action Level (AL)**: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.  **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.  **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 *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.  **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) **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) |

**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. 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.

**Tables 1, 2, 3, 4, 5, and 6 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.

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| Table 1 – SAMPLING RESULTS SHOWING the detection of coliform bacteria | | | | | | | | | | | | |
| **Microbiological Contaminants** (complete if bacteria detected) | | **Highest No. of Detections** | | **No. of Months in Violation** | | MCL | | | | | **MCLG** | **Typical Source of Bacteria** |
| Total Coliform Bacteria (state Total Coliform Rule) | | (In a month)  Zero (0) | | Zero (0) | | 1 positive monthly sample | | | | | 0 | Naturally present in the environment |
| Fecal Coliform or *E. coli* (state Total Coliform Rule) | | (In the year)  Zero (0) | | Zero (0) | | A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or *E. coli* positive | | | | | / | Human and animal fecal waste |
| *E. coli*  (federal Revised Total Coliform Rule) | | (In the year)  Zero (0) | | Zero (0) | | (a) | | | | | 0 | Human and animal fecal waste |
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| (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*. | | | | | | | | | | | | |
| **Health Effects Language: Table 1** (State Total Coliform Rule’s) | | | | | | | | | | | | |
| Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. If Coliforms were found in more samples than allowed this would be a warning of potential problems. | | | | | | | | | | | | |
| Fecal coliforms and *E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems. | | | | | | | | | | | | |
| Table 2 – SAMPLING RESULTS SHOWING THE detection of Lead and copper | | | | | | | | | | | | |
| Lead and Copper (complete if lead or copper detected in the last sample set) | **Sample Date** | | **No. of Samples Collected** | | **90th Percentile Level Detected** | | **No. Sites Exceeding AL** | **AL** | **PHG** | **Typical Source of Contaminant** | | |
| Lead (ppb) | 7/12/18 | | 10 | | 6.4 ppb | | None | 15 | 0.2 | Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits | | |
| Copper (ppb) | 7/12/18 | | 10 | | 61 ppb | | None | 1300 | 0.3 | Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives | | |

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| 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)  Surface Water | 10/04/18 | | 74 ppm | 1 sample Annually | None | None | Salt present in the water and is generally naturally occurring |
| Hardness (ppm)  Surface Water | 10/04/18 | | 100 ppm | 1 sample Annually | None | None | Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring |
| **TAble 4 – detection of contaminants with a Primary Drinking Water Standard** | | | | | | | |
| **Chemical or Constituent** (and reporting units) | | **Sample Date** | **Level Detected** | **MCL**  **(AL) [MRDL]** | **PHG (MCLG) [MRDLG]** | **Violation** | **Typical Source of Contaminant** |
| **Radioactive Contaminants** | | | | | | | |
| **\* Radium 226** (pCi/l)  Surface Water | | 10/04/18 | 0.038 pCi/L | 5 pCi/L | 0.05pCi/L | None | Erosion of natural deposits |
| **Inorganic Contaminants** | | | | | | | |
| Aluminum (ppb),  Surface Water | | 10/04/18 | N/D | 1000 ppb | 0.6 ppb | None | Erosion of natural deposits; residue from some surface water treatment processes |
| **Antimony** (ppb)  Surface Water | | 10/04/18 | N/D | 6 ppb | 1 ppb | None | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder |
| **Arsenic** (ppb),  Surface Water | | 10/4/18 | 3 ppb | 10 ppb | 0.004 ppb | None | Erosion of natural deposits; runoff from orchards; glass and electronics production wastes |
| **Copper** (ppb)  Surface Water | | 10/04/18 | N/D | (AL=1.3) | 0.003ppb | None | Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| **\*\* Lead** (ppb)  Surface Water | | 10/04/18 | N/D | (AL=15) | 0.0 2 ppb | None | Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits |
| **\*\*\* Nitrate (**as **N)** (ppm)  Surface Water  Brookwood Well (ppm) | | Feb-Nov 2018  5 samples  3/13/18  1 sample | (average of 5 samples)  0.6 ppm  4.4 ppm | 10 ppm  As N | 10 ppm  As N | None | Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits |
| **Nitrite** (as N) (ppm)  Surface water | | 10/04/18 | N/D | 1 ppm  (as N) | 1 ppm | None | Runoff from fertilizer use; leaking from septic tanks, sewage; erosion of natural deposits |
| **Table 4 – Continue – detection of contaminants with a Primary Drinking Water Standard** | | | | | | | |
| **Notes: \* Radium 226** Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.  **\*\*Lead;** 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.  \*\*\***Nitrate** in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant’s blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider. | | | | | | | |
| **Chemical or Constituent** (and reporting units) | | **Sample Date** | **Level Detected** | **MCL**  **(AL) [MRDL]** | **PHG (MCLG) [MRDLG]** | **Violation** | **Typical Source of Contaminant** |
| **DISTRIBUTION SYSTEM D/DBP Contaminant**  **Notes:** Level detected at the **Locational Running Annual Average** (LRAA) during the fourth quarter of 2018. Data provided are for two sample sites locations. 16 samples in all | | | | | | | |
| **TTHM** (ppb)  Distribution system | | 8 samples  2018 | 67.75 ppb  46.50 ppb | 80 ppb | / | See below | Byproduct of drinking water disinfection |
| **HAA5** (ppb)  Distribution system | | 8 samples  2018 | 58.25 ppb  16.50 ppb | 60 ppb | / | NONE | Byproduct of drinking water disinfection |

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| |  | | --- | | **Summary Information for Contaminants Exceeding an MCL or AL, or a Violation of any Treatment or Monitoring and Reporting Requirements**  Our water system recently violated a drinking water standard. Water sample results received in | | the first and second quarters of 2018 showed that the running annual arithmetic average of | | TTHM, computed quarterly, has a level of 119 mg/L and 84 mg/L in the first and | | second quarter of 2018 respectively. These levels were above the TTHM maximum contaminant | | level (MCL) of 80 mg/L. | | THIRD QUARTER 2018 LAB RESULTS COMPUTED WELL BELOW THE 80mg/L AVERAGE | |  | | | | | | | | | | | |
| **TAble 5 – detection of REGULATED contaminants with a Secondary Drinking Water Standard** | | | | | | | | | | |
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| **Chemical or Constituent** (and reporting units) | | **Sample Date** | **Level Detected** | | | **MCL** | | Typical Source of Contaminant | | |
| **Color** (units)  Surface Water | | 10/04/18 | 13 units | | | 15 units | | Naturally-occurring organic materials | | |
| **Iron** (ppb)  Surface Water | | 10/04/18 | 150 ppb | | | 300 ppb | | Leaching from natural deposits; industrial wastes | | |
| **Manganese** (ppb)  Surface Water | | 10/04/18 | 20 ppb | | | 50 ppb | | Leaching from natural deposits | | |
| **Silver** (ppb)  Surface water | | 10/04/18 | N/D | | | 100 ppb | | Industrial discharges | | |
| **Zinc** (ppb),  Surface Water | | 10/04/18 | 120 ppb | | | 5000ppb | | Runoff/leaching from natural deposits; industrial wastes | | |
| **Total Dissolved Solids** (ppm)  Surface Water | | 10/04/18 | 270 ppm | | | 1000 ppm | | Runoff/leaching from natural deposits | | |
| **Sulfate**  (ppm),  Surface Water | | 10/04/18 | 22.2 ppm | | | 500 ppm  (see note) | | Runoff/leaching from natural deposits; industrial wastes | | |
| Notes: 500 ppm is the maximum contaminant level in the short term only, for chloride and sulfate. | | | | | | | | | | |
| **TAble 6 – STATE REGULATED CONTAMINANTS with no mclS** | | | | | | | | |
| **Chemical or Constituent** (and reporting units) | **Sample Date** | | | **Level Detected** | **Notification Level** | | **Health Effects Language** | |
| **Boron** (ppb)  Surface Water | 10/04/18 | | | 100 ppb | 1000 ppb | | The babies of some pregnant women who drink water containing boron in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals. | |
| **Hexavalent chromium 3** (ppm)  Surface water | 10/04/18 | | | N/D | N/A | | Some people who drink water containing hexavalent chromium in excess of the MCL over many years may have an increased risk of getting cancer. | |
| **Vanadium** (ppb)  Surface Water | 10/04/18 | | | 4 ppb | 50 ppb | | The babies of some pregnant women who drink water containing vanadium in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals. | |
| 3 There is currently no MCL for hexavalent chromium. The previous MCL of 0.010 mg/L (10 ppb) was withdrawn on September 11, 2017. However, any hexavalent chromium results above the detection limit of 1 ppb should be reported. | | | | | | | | |

**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. Lake Elizabeth Mutual Water Company 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>.

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

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| **TAble 7 – 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** |
| *E. coli*  Well #2 (Stand-by)  Brookwood well | (In the year)  Zero (0)  Zero (0) | Weekly  Monthly | 0  0 | (0)  (0) | Human and animal fecal waste |

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

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| **SPECIAL NOTICE OF FECAL INDICATOR-POSITIVE GROUNDWATER SOURCE SAMPLE** | | | | |
| None | | | | |
| **SPECIAL NOTICE FOR UNCORRECTED SIGNIFICANT DEFICIENCIES** | | | | |
| None | | | | |
| **VIOLATION OF GROUNDWATER TT** | | | | |
| **TT Violation** | **Explanation** | **Duration** | **Actions Taken to Correct the Violation** | **Health Effects Language** |
| **No Violations** | **/** | **/** | **/** | **-** |
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**For Systems Providing Surface Water as a Source of Drinking Water**

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| **Table 8 - sampling results showing TREATMENT OF SURFACE WATER SOURCES** | |
| Treatment Technique (a)  (Type of approved filtration technology used) |  |
| Turbidity Performance Standards (b)  (that must be met through the water treatment process) | Turbidity of the filtered water must:  1 – Be less than or equal to 0.3 NTU in 95% of measurements in a month.  2 – Not exceed 1.0 NTU for more than eight consecutive hours.  3 – Not exceed 5.0 NTU at any time. |
| Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1. | **99.9%** |
| Highest single turbidity measurement during the year | **0.39 NTU** |
| Number of violations of any surface water treatment requirements | **None** |

(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**

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| **VIOLATION OF A SURFACE WATER TT** | | | | |
| **TT Violation** | **Explanation** | **Duration** | **Actions Taken to Correct the Violation** | **Health Effects Language** |
| **No Violations** | **/** | **/** | **/** | **-** |
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Summary Information for Operating Under a Variance or Exemption

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| **NONE** |

**Summary Information for Federal Revised Total Coliform Rule**

**Level 1 and Level 2 Assessment Requirements**

**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.

During the past year we were required to conduct **No** Level 1 assessment(s). **Zero (0)** Level 1 assessment(s) were completed. In addition, we were required to take **No** corrective actions and we completed **all** of these actions.

During the past year No Level 2 assessments were required to be completed for our water system. Zero (0) Level 2 assessments were completed. In addition, we were required to take No corrective actions and we completed all of these actions.

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| None |

**Level 2 Assessment Requirement Due to an *E. coli* MCL Violation**

*E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes 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. We found *E. coli* bacteria, indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) identify problems and to correct any problems that were found during these assessments.

We were required to complete a Level 2 assessment because we found *E. coli* in our water system. In addition, we were required to take no corrective actions and we completed all of these actions.

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| None |