2015 WATER QUALITY REPORT

MANASQUAN WATER SUPPLY SYSTEM

PWSID 1352005

A division of the New Jersey Water Supply Authority, serving the customer communities of BRIELLE, SEA GIRT, SPRING LAKE, SPRING LAKE HEIGHTS AND WALL TOWNSHIP

The Manasquan Water Treatment Plant, located on Hospital Road in the Allenwood section of Wall Township, is owned by the Southeast Monmouth Municipal Utilities Authority and is operated by the New Jersey Water Supply Authority. The Manasquan Water Treatment Plant provides an average of 60% of the water used by the residents of the above customer communities. Raw water for this facility is taken from the MANASQUAN RIVER in Wall Township and the MANASQUAN RESERVOIR in Howell Township. The Manasquan Water Supply System also provides raw water to New Jersey American Water, for treatment and distribution to other communities in Monmouth and Ocean Counties.

The water produced by the Manasquan Water Treatment Plant is monitored for a large number of contaminants. The contaminants, which have been detected in monitoring from January 1st, 2015 through December 31st, 2015, are listed in the **TEST RESULTS** table below.

For the complete monitoring schedule or for further information about this report, you can contact Operations Supervisor Donald LeRoy or System Manager Paul McKeon at the Manasquan Water Supply System. Telephone - 1-732-974-8383; Fax - 1-732-974-8607 or E-mail – dleroy@njwsa.org or pmckeon@njwsa.org.

This report is available at http://www.njwsa.org/mwssccr.pdf

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 (1-800-426-4791).

| | | T | EST RESULT | TS TAI | BLE | | |
|----------------------------------|--------------------------------------|--|---------------------|--------|--|--|-----------|
| CONTAMINANT | HIGHEST LEVEL DETECTED | RANGE DETECTED | UNIT OF MEASUREMENT | MCLG | MCL | LIKELY SOURCE OF CONTAMINATION | VIOLATION |
| MICROBIOL | OGICAL CO | NTAMINAN | TS 2015 | | | | |
| TOTAL COLIFORM BACTERIA | 0 | 0 | % | 0 | 5% OF SAMPLES POSITIVE | NATURALLY PRESENT IN THE ENVIRONMENT | NO |
| SUSPENDED | MATTER R | EMOVAL 20 | 015 | | | | |
| TOTAL ORGANIC CARBON (TOC) | ANNUAL AVERAGE REMOVAL 38.4 | MONTHLY SAMPLES | % | N/A | TT AVERAGE RAW WATER TOC 35% TO 50% REQUIRED | NATURALLY PRESENT IN THE ENVIRONMENT | NO |
| | MINIMUM REMOVAL 24 | 24-46 | % | N/A | REMOVAL MINIMUM BASED ON RUNNING ANNUAL AVERAGE | | |
| TURBIDITY FILTERED WATER | 1.16 | 0.03-1.16 | NTU | N/A | > 1 NTU (1.49 due to rounding) | SOIL RUNOFF | NO |
| | > 95% of samples were <0.3NTU | 99.8% (2 readings out of 28,800 exceeded 0.30 NTU) | % | N/A | TT = 95 % OF MONTHLY SAMPLES < 0.3 NTU | SOIL RUNOFF | NO |
| RADIOACTI | VE CONTAM | IINANTS (R | ESULTS BASE | D ON E | DATA FROM 2 | 2011) | |
| GROSS ALPHA EMITTERS | 0.96 | 048 – 1.25 | pCi/L | 0 | 15 | EROSION OF NATURAL DEPOSITS | NO |
| RADIUM 228 | <1 | ND – 0.18 | pCi/L | 0 | 5 | EROSION OF NATURAL DEPOSITS | NO |
| INORGANIC | CONTAMIN | ANTS 2015 | | • | | • | |
| BARIUM | 0.026 | 0.026 | PPM | 2 | 2 | | |

| | | T | EST RESULT | S TAI | BLE | | |
|-------------|--------------------------|-------------------|-----------------------|------------|---|---|-----------|
| CONTAMINANT | HIGHEST LEVEL DETECTED | RANGE DETECTED | UNIT OF MEASUREMENT | MCLG | MCL | LIKELY SOURCE OF CONTAMINATION | VIOLATION |
| FLUORIDE | 0.11 | 0.11 | PPM | 4 | 4 | EROSION OF NATURAL DEPOSITS | NO |
| INORGANIC | CONTAMIN | ANTS | | | | | |
| NITRATE | 0.321 | 0.321 | Mg/l | 10 | 10 | RUNOFF FROM FERTILIZER USE; INDUSTRIAL AND DOMESTIC WASTE WATER DISCHARGES; EROSION OF NATURAL DEPOSITS | No |
| ASBESTOS | <0.06 | <0.06 | Million Fibers /Liter | | 7x10 ⁶ fibers/l >10 um | EROSION OF NATURAL DEPOSITS | No |
| ORGANIC C | ONTAMINAN | NTS | | l | | | |
| BROMATE | <0.005 | N/A | Mg/l | | 0.010 RUNNING ANNUAL AVERAGE OF ONE MONTHLY SAMPLE | REACTION OF NATURALLY OCCURRING BROMIDE WITH OZONE | No |
| | | T | ECT DECLU 7 | רכי די איז | DI E | | |
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| TEST RESULTS TABLE | | | | | | | | | |
|---|---------------|-------|--|------|---|---------------------------|----|--|--|
| DISINFECTANT/DISINFECTANT BY-PRODUCTS | | | | | | | | | |
| (BASED SAMPLES OF WATER LEAVING THE PLANT AND IN THE DISTRIBUTION SYSTEM) | | | | | | | | | |
| | Highest Value | Range | | 4 | 4 | WATER ADDITIVE USED TO | NO | | |
| CHLORINE 1.34 0.87 – 1.34 PPM MRDL MRDL CONTROL MICROBES | | | | | | | | | |
| | | | | GOAL | | | | | |

| TTHM (TOTAL TRIHALOMETH ANES) FROM THE END OF THE DISTRIBUTION SYSTEM | HIGHEST SINGLE PARAMATER VALUE. 11.3 | <0.9-11.3 | PPB | N/A | ANNUAL SITE SAMPLING 80 | BY-PRODUCTS OF DRINKING WATER CHLORINATION | NO |
|---|--|-----------|-----|-----|-------------------------------|--|----|
| HAA5 (HALOCETIC ACIDS) FROM THE END OF THE DISTRIBUTION SYSTEM | HIGHEST SINGLE PARAMATER VALUE. | <1.0-12.8 | РРВ | N/A | ANNUAL SITE SAMPLING 60 | BY-PRODUCT OF DRINKING WATER CHLORINATION | NO |

MONITORING WAIVERS

The Safe Drinking Water Act regulations allow *monitoring waivers* to reduce or eliminate the monitoring requirements for asbestos, volatile organic chemicals, and synthetic organic chemicals. The NJDEP conducted monitoring of synthetic organic chemicals (SOC) during 2012 that included sampling during storm conditions at our surface water intake. Based on these results, a waiver for the 2011 – 2013 period was received. We anticipate a waiver for the current cycle.

| SECONDARY CONTAMINANTS / WATER QUALITY PARAMETERS | | | | | | | |
|---|----------|-------------|----------|--|--|--|--|
| CONTAMINANT OR PARAMETER | AVERAGE | UNIT | MCL | LIKELY | | | |
| OK PAKAWIETEK | LEVEL | OF | (RUL) | SOURCE | | | |
| | DETECTED | MEASUREMENT | | OF | | | |
| | | | | CONTAMINATION | | | |
| IRON | 0.250 | Mg/L | 0.3 | EROSION OF NATURAL DEPOSITS; | | | |
| MANGANESE | 0.020 | Mg/L | 0.05 | EROSION OF NATURAL DEPOSITS; | | | |
| HARDNESS | 56.2 | Mg/L | 50 – 250 | N/A | | | |
| SODIUM | 31 | Mg/L | 50 | EROSION OF NATURAL DEPOSITS; ROADWAY ICE AND SNOW CONTROL | | | |
| ZINC | 0.186 | Mg/L | 5.0 | CORROSION CONTROL ADDITIVE USED IN WATER TREATMENT ZINC - ORTHOPHOSPHATE | | | |
| COPPER | <0.001 | Mg/L | 1.3 | EROSION OF NATURAL DEPOSITS; | | | |
| ALUMINUM | <0.010 | Mg/L | 0.5 | BASE ELEMENT OF ADDITIVE USED IN WATER TREATMENT; | | | |

Additional Inorganic Contaminates that could be the product or erosion or natural deposits:

| <u>Analysis</u> | Result | <u>Units</u> | MCL |
|-----------------|---------|--------------|-------|
| Antimony | <0.0004 | mg/l | 0.006 |
| Arsenic | <0.0005 | mg/l | 0.005 |
| Barium | 0.036 | mg/l | 2.0 |
| Beryllium | <0.0003 | mg/l | 0.004 |
| Cadmium | <0.0005 | mg/l | 0.005 |
| Chromium | <0.0005 | mg/l | 0.1 |
| Cyanide | <0.0200 | mg/l | 0.2 |
| Mercury | <0.0002 | mg/l | 0.002 |
| Nickel | <0.002 | mg/l | 0.1 |
| Silver | <0.0005 | Mg/I | 0.1 |
| Selenium | <0.0025 | mg/l | 0.05 |
| Sulfate | 32 | mg/l | 250 |
| Thallium | <0.0003 | mg/l | 0.002 |

The tables above provides information that is useful for certain home and industrial applications. Information on the hardness of water in "grains per gallon" can improve the function of dishwashers, cooling equipment, and other process applications. To convert the hardness value into grains per gallon, divide the hardness value shown in the table in milligrams per liter by 17.

Volatile Organic Compounds results required for the three year cycle of 2014 through 2016 were reported with the 2015 CCR which referenced 2014 results.

DEFINITIONS:

In the preceding **Test Results** table you will find terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that the constituent is not detectable above the minimum detection level for that analysis method.

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 - 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.

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Action Level - The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - The level of a contaminant below which there is no known or expected risk to health. MCLGs 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.

Total Organic Carbon - Total Organic Carbon has no health effects. However, total organic carbon provides a medium for the formation of *Disinfection By-products*. The *Treatment Technique* for total organic carbon requires that 35% to 45% of the total organic carbon in the raw water is removed through the treatment processes.

Turbidity - Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity is measured as an indication of the effectiveness of the filtration process. The *Treatment Technique* for turbidity requires that no individual sample exceeds 1 *NTU* and 95% of the samples collected during a month must be less than 0.3 NTU.

TTHM - Total Trihalomethanes are carcinogenic compounds created when Chlorine is added to water as a disinfectant. The MCL for TTHM's requires that one annual sample from an approved location does not exceed 80 parts per billion.

Secondary Contaminant - Substances that do not have an impact on health. Secondary Contaminants affect aesthetic qualities such as odor, taste or appearance. Secondary standards are recommendations, not mandates.

Recommended Upper Limit (RUL) – Recommended maximum concentration of secondary contaminants. These reflect aesthetic qualities such as odor, taste or appearance. RULs are recommendations, not mandates.

Disinfection By-products - These compounds are by-products of the addition of chlorine or ozone employed in the disinfection of drinking water. These compounds are confirmed or suspected carcinogens for which *MCLs* have been set.

HAA5 - Haloacetic Acids are compounds created when Chlorine is added to water as a disinfectant. The MCL for HAA5's requires that one annual sample from an approved location does not exceed 60 *parts per billion*.

Monitoring Waiver - Permission from NJDEP or EPA to reduce or eliminate sampling for specific contaminants.

SPECIAL HEALTH CONCERNS

Special considerations regarding children, pregnant women, nursing mothers, and others:

Children may receive a slightly higher amount of a contaminant present in the water than do adults, on a body weight basis, because they may drink a greater amount of water per pound of body weight than do adults. For this reason, reproductive or developmental effects are used for calculating a drinking water standard if these effects occur at lower levels than other health effects of concern. If there is insufficient toxicity information for a chemical (for example, lack of data on reproductive or developmental effects), an extra uncertainty factor may be incorporated into the calculation of the drinking water standard, thus making the standard more stringent, to account for additional uncertainties regarding these effects. In the cases of lead and nitrate, effects on infants and children are the health endpoints upon which the standards are based.

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

Lead in Drinking Water

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. New Jersey Water Supply Authority – Manasquan Water Treatment Plant 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.

Please note that the New Jersey Water Supply Authority is not responsible for lead testing within the customer communities. Consult the Consumer Confidence Report of your community water system for lead results.

Cryptosporidium

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Cryptosporidium is usually removed through the filtration process and inactivated by other treatment processes such as ozonation. In order to check for the presence of Cryptosporidium, USEPA issued the Long Term 2 Enhanced Surfaced Water Treatment Rule in January 2006. As part of this rule, the Manasquan System began monthly sampling and testing for Cryptosporidium in April 2008 and this testing continued through its completion in March 2010. The sample results did not show any presence of Cryptosporidium.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 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 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 run-off, 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 run-off 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 run-off 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 EPA prescribes regulations (MCL's) which limit the amounts of certain contaminants in water provided by public water systems. Further information about EPA safe drinking water regulations can be obtained over the Internet at EPA's drinking water website, http://www.epa.gov/safewater. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

The New Jersey Department of Environmental Protection (NJDEP) has completed Source Water Assessment Reports and Summaries for all the public water systems in New Jersey. A summary of the report for NJWSA/Manasquan is included below. A complete copy of the Source Water Assessment Report with appendices and a four-page summary are available on-line at the NJWSA website: http://www.njwsa.org/mwssrpt.pdf. Further information on the Source Water Assessment Program can be obtained by logging onto NJDEP's source water web site at http://www.state.nj.us/dep/swap or by contacting NJDEP's Bureau of Safe Drinking Water at 609-292-5550. You may also contact the Manasquan Water Supply System at 732-974-8383.

The New Jersey Department of Environmental Protection issues an individual Public Water System Identification Number (PWSID) to each water supply facility. The PWSID for the NJWSA/Manasquan Water Treatment Plant is **1352005**. You can use this PWSID number to assist you in obtaining local drinking water quality information on the Internet at the USEPA website at http://www.epa.gov/safewater/dwinfo/nj.htm or at the NJDEP Bureau of Safe Drinking Water website at http://www.state.nj.us/dep/watersupply/waterwatch/

Interested individuals may participate in discussions of the operation of the Manasquan Water Supply System by attending the regular monthly meetings of the New Jersey Water Supply Authority or Southeast Monmouth Municipal Utilities Authority.

- New Jersey Water Supply Authority: first working Monday of each month at the NJWSA headquarters, 1851 Route 31, Clinton, NJ 08809. Call 1-908-638-6121 for details. Information on the New Jersey Water Supply Authority can also be obtained over the Internet at http://www.njwsa.org.
- Southeast Monmouth Municipal Utilities Authority: first Thursday of each month in the Main Meeting Room, First Floor, Wall Township Municipal Complex, 2700 Allaire Road, Wall, NJ 07719. Call 1-732-449-8444 for specific meeting dates and times or e-mail ph805@optonline.net.
- See Important Notice On the Following page

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

New Jersey Water Supply Authority failed to meet monitoring and reporting requirements.

The New Jersey Water Supply Authority (NJWSA) through the Manasquan Water Treatment Plant (Manasquan WTP) provides a portion of the community drinking water used by the residents of Brielle, Sea Girt, Spring Lake, Spring Lake Heights and Wall Township.

On August 24-27, 2015 the US EPA conducted a file review/inspection at the Manasquan WTP. Subsequently the US EPA notified NJWSA of findings and violations identified during the file review. As per 40 C.F.R. Part 141 Subpart Q, public water systems must give notice for all violations of national drinking water regulations.. All violations were "failures to report/failure to monitor". The period of review was from January 2012 through July of 2015. Below are the monitoring/reporting failures as determined by the US EPA followed by some context or explanation by NJWSA staff:

- 1. Failure to report to NJDEP a finished water bromate measurement of 5.13 ug/L based on monitoring results of a sample taken on February 1, 2013 (40 C.F.R. §141.134(b)(5)).
- 2. Failure to report the same Bromate measurement of 5.13 ug/L in the 2013 Consumer Confidence report (CCR), issued in 2014. (40 C.F.R. §141.153).

The running annual average of all Bromate samples after the February 1, 2013 sample result is included was 0.48 ug/l. The running annual average for the remainder of 2013 was 0.48 ug/l. The MCL for Bromate is 10.0 ug/l on a running annual average.

3. Failure to consistently report the total organic carbon (TOC) removal of treated water to the NJDEP on a monthly basis from a sampling point located no later than the point of the combined filter effluent (CFE) turbidity and representative of the treated water (40 C.F.R.§141.132(d)).

NJWSA had previously received written permission from NJDEP to use an alternate sampling point location for TOC calculation that NJDEP concluded was representative of treated water. The alternate sampling point was after the GAC contactors. The TOC removal was calculated utilizing data of the TOC of the treated water collected at the alternate sampling point in (Jan 12-Nov 14 and May 15) and utilizing TOC of treated water data collected after the CFE sampling point (Dec 14-Apr 15 and Jun –July 15). To correct the violation, the sampling is now only being collected at the CFE turbidity location.

4. Failure to monitor alkalinity of the raw water at the same time TOC raw and treated water sampling is conducted.(40 C.F.R. §141.132(d)).

Samples for TOC were taken at approximately 9 AM on the first Tuesday of every month. The alkalinity of the source (raw) water was tested by the plant operator once in each eight-hour period and recorded on a lab sheet. The person collecting the TOC sample did not sample for alkalinity at the same time that the TOC sample was collected, but rather used the Plant Operator's nearest recorded lab result. However, since staff knew that the alkalinity of the raw water can change when the raw water source is changed, the supervisor always confirmed that the source of the raw water had not changed between the time of the most recent alkalinity test and the times that the TOC samples were collected. To correct the violation, a written procedure is now being followed where the alkalinity is determined from a sample taken within two minutes of the raw TOC sample being drawn.

5. Failure to report combined filter effluent turbidity readings, greater than 0.3 NTU, to the NJDEP on at least March 4, 2015, particularly between 1:00 pm and 2:45 pm at the conclusion of a partial treatment process failure when the treatment plant was in operation (40 C.F.R. §141.175 and 141.173(a)(b)).

NJWSA continuously monitors and records turbidity (cloudiness) of the water produced by the Manasquan WTP. Turbidity is a measurement of the effectiveness of the clarification and filtration processes. The LT2 Enhanced Surface Water Treatment Rule requires that the turbidity of the combined filter effluent water should not exceed one (1) Turbidity Unit (NTU) at any time and that 95% of all samples should be less than 0.3 NTU, when the plant is in operation.

During the period between 1:00 pm and 11:00 pm on March 4, 2015, the turbidity of the finished water (delivered) did not exceed any turbidity standards and the maximum finished water turbidity for March 4, 2015 was less than 0.10 NTU. These finished water turbidity values are credited to the use of activated carbon filters that are part of the treatment process after filtration. In addition, the Manasquan WTP disinfection

process continued to operate properly throughout this event providing adequate disinfection of the water supply. The readings over 0.3 NTU that the licensed operator did not report occurred at times that he determined the plant to be off line or were the result of particles stirred up from a sump resulting from starting pumps and thus not representative of the filtered water. To correct the violation, the filtered water pumps have been programmed to automatically turn off based on a settable turbidity value. Also the sampling location of the CFE turbidity monitor has been relocated away from the water tank sump.

6. Failure to report to the NJDEP results of specific total coliform samples collected in December 2013 and January 2014. As per 40 C.F.R. & 141.21 (b)(7), results of all routine and repeat samples not invalidated by the State must be included in determining compliance with the maximum contamination level for total coliforms.

NJWSA staff collected more samples than are required by the standard, all of which detected no total coliform bacteria. Staff did not realize that the test results for those additional tests also required reporting. NJDEP has encouraged additional testing of system water and since February of 2014 all additional sampling results from approved locations have been reported.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your water meets health standards. During the period of January 2013 through August 2015 we did not test for alkalinity at the time of Total Organic Carbon sampling and therefore cannot be sure of certain aspects of the drinking water quality during that time.

For more information, please contact Donald E LeRoy at 732 974 8383.

This notice is being provided to you by NJWSA PWSID # 1352005 Date: 6/30/2016