

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION CENTRAL BUREAU OF WATER COMPLIANCE & ENFORCEMENT

Mail Code 44-03/P.O. BOX 420 Trenton, NJ 08625-0420 FAX: (609) 292-6450 CATHERINE R.

Commissione

June 10, 2019

VIA EMAIL

PHILIP D. MURPHY McCABE Governor

SHEILA Y, OLIVER Lt. Governor

Dr. Shing-Fu Hsueh, Utility Director Trenton Water Works 333 Cortland St P O Box 528 Trenton, NJ 08638

RE:

Compliance Evaluation and Assistance Inspection

Trenton Water Works (TWW)

PROGRAM INTEREST ID # 1111001 Compliance Activity # SCI 190001

Trenton City, Mercer County

Dear Dr. Hsueh:

A Compliance Evaluation and Assistance Inspection of your facility was conducted from April 16, 2019 to April 18, 2019. Please address any items or concerns noted on the comments section of the attached report.

The items noted below and in the attached report with a compliance status of "OC" or "ON" have placed or may place your facility in violation of the New Jersey Safe Drinking Water Act, the New Jersey Water Supply & Wastewater Operators' Licensing Act (N.J.S.A. 58:11-64 et seq.), the Licensing of Water Supply and Wastewater Treatment System Operators regulations (N.J.A.C. 7:10A-1 et seq.), the Water Supply Management Act (58:1A-1 et seq.) and the Water Supply Allocation Permits regulations (N.J.A.C. 7:19-1 et seq.). Also, the items marked "ND" have the potential to place your facility out of compliance with the above listed regulations if not addressed. The Department has outlined all items of concern below and have requested a corrective action for each item.

Deficiencies noted during the inspection and associated corrective actions:

- 1. TWW has not yet completed the rehabilitation of the chlorine contact tanks, nor has the filter bed media been replaced. The Superpulsator units have been cleaned out. Until the chlorine contact basin and filter bed media replacement projects are completed, TWW will remain out of compliance with the Notice of Violation issued to TWW on April 5, 2018.
 - a. Provide the Department with a schedule to complete the above-mentioned projects.
- 2. Failure to take action to return the water quality within acceptable limits within one year of a Maximum Contaminant Level (MCL) violation for both Haloacetic Acids (HAA5) and Trihalomethanes (TTHM). Returning a system to compliance with the MCL for HAA5 and TTHM requires two consecutive quarters below the MCL by the one-year timeframe. TWW failed to return the system to compliance with the 12/8/18 deadline for HAA5 and the 3/5/19 deadline for TTHM. TWW has returned to compliance with HAA5 based on the 1st quarter 2019 sample results, and since the time of inspection, TWW has returned to compliance with TTHM on 5/9/19. TWW submitted a Disinfection By-product (DBP) Reduction Plan and has hired an engineering firm to evaluate the formation of DBPs within the filtration plant.
 - a. Provide the Department with the status of the Engineer' review/ evaluation in regard to the DBP Reduction Plan.
- 3. TWW failed to conduct continuous monitoring for filters 3E and 7W from 12:40am on 5/4/19 to 6:00pm on 5/4/19 while the beds were still online. Operators did not turn off beds even though readings were 0.0 NTU continuously. TWW failed to follow protocols for grab sampling for this event. A Notice of Non-Compliance (NONC) will be issued by the Bureau of Safe Drinking Water (BSDW) to address this violation.
 - a. All corrective actions will be addressed under the NONC; should TWW not follow the remedial actions set forth within the NONC, it will be referred to Enforcement for appropriate action.
- 4. TWW has not yet complied with the requirement of reducing the unaccounted-for water to less than 15%, TWW is currently at 31.9%. Also, during the time of the inspection, the American Water Works Association (AWWA) audit was not yet submitted but was due 4/30/19.
 - a. TWW must submit the AWWA Audit. TWW submitted a "Long-Range Plan to Reduce Unaccounted-for Water" to the Department. The Department is requesting quarterly updates on the status of this project; these updates can be included in the February 5, 2018 Operations Administrative Consent Order (ACO) monthly progress reports beginning with the July 2019 monthly progress report to be submitted before August 1, 2019.
- 5. During the time of inspection there were discrepancies with the water allocation logs for the raw water intake.
 - a. TWW must evaluate and ensure the calculations are correct for the months of March

2018, July 2018, August 2018, September 2018 and February 2019. Any corrections should be resubmitted to the Department within 30 days from receipt of this letter.

- 6. During the time of inspection, the Department could not determine compliance on whether TWW has metered all services pursuant to the requirements of the Water Supply Management Act. TWW is currently undergoing an extensive investigation of all connections to determine the universe that is potentially not metered.
 - a. TWW must include updates of this investigation within the February 5, 2018 Operations ACO monthly progress reports beginning with the July 2019 monthly progress report to be submitted before August 1, 2019.
- 7. A Tier 3 Public Notice (PN) is required to be conducted by January 17, 2020 for the Lead and Copper monitoring and reporting violation for failure to submit the sample results by the required deadline.
 - a. Ensure compliance with the deadline to conduct the PN and submit the certification form verifying compliance within 10 days following the completion of the PN.
- 8. During the time of inspection, the most recent storage tank interior and exterior inspection and evaluation reports were reviewed. It was observed that there were deficiencies noted for the tanks ie. a hole in the roof of the Mercerville tank, the Jones Farm tank needs sealant at the foundation, a mixer is needed due to poor mixing within the tank at Jones Farm and Hopewell tanks, corrosion present at the Mercerville tank, and sediment buildup in the Hopewell tank.
 - a. The Department is requiring TWW to provide the schedule and remedial actions to address the deficiencies noted within the reports and listed above.
- 9. During the time of inspection, the Whitehorse Tank foundation was breaking away from one of the stands and the Mercerville Tank had a loose bolt in the back.
 - a. Both of these items must be addressed within 30 days from receipt of this letter.
- 10. During the time of inspection, the Whitehorse Tank had a malfunctioning high-level sensor.
 - a. TWW needs to provide the Department with a schedule for replacement.
- 11. Due to the issues identified with the lead and copper sampling result for the 1/1/18-6/30/18 monitoring period, TWW must review the BSDW-56 form for the first half of 2018 and verify for accuracy.
 - a. Should TWW identify discrepancies in the form, TWW must resubmit the form within 30 days from receipt of this letter.

A written report concerning specific details of remedial measures to be instituted for these items, as well as an implementation timetable, must be submitted to this Bureau within thirty (30) calendar days of receipt of this correspondence.

You are advised that the New Jersey Safe Drinking Water Act (N.J.S.A. 58:12A-1 et seq.), the Water Supply & Wastewater Operators' Licensing Act (N.J.S.A. 58:11-64 et seq.) and the New Jersey Water Supply Management Act (N.J.S.A. 58:1A-1 et seq.) provides for substantial penalties in cases of permit violations. Therefore, your prompt attention to this matter is anticipated.

Note that you may also review your inspection report as well as many other DEP reports online at www.nj.gov/dep/inspections.

If you have any questions concerning the attached report, contact me at 609-273-9493 or at Jessica.sponaugle@dep.nj.gov.

Very truly yours,

Jessica R. Sponaugle Environmental Specialist II

Attachment

c: Kristin Epstein, Assistant Utility Director
Mark Lavenberg, Licensed Operator, Operations Services
Andrew Pappachen, Licensed Operator, Operations Services
Division of Water Supply and Geoscience

Compliance Evaluation Summary (No Block/Lot)

Date Printed: 9/28/2022

Activity:

SCI 190001 *Standard Compliance Inspection (1111001)

Title Description:

fy19

Start Date/Time:

04/16/2019 9:00 AM

End Date/Time: 04/18/2019 12:00 PM

Program Interest:

TRENTON WATER WORKS 1111001 (SAFE DRINKING WATER)

RT 29,

TRENTON CITY, MERCER COUNTY

Mailing Address:

333 CORTLAND ST Trenton NJ 08638

Responsibility Entity(s)

Program Interests included in Inspection:

Trenton City Dpw

1111001 (Safe Drinking Water)

Trenton City Dpw	5187 (Water Alle	ocation)	
Lead Investigator	Other Investigators	Persons Interviewed	<u>Witnesses</u>
Sponaugle, Jessica	Brennan, Jeffrey	Dr. Shing-Fu Hsueh, Utility Director, City of Trenton Kristin Epstein, Assistant Utility Director, City of Trenton Mark Lavenberg, T-4 Licensed Operator of Record, Operations Services	Andrew Pappachen, W-4 Licensed Operator of Record, Operation Taya Brown-Humphrey, Superintendent, City of Trenton Theresa Ponella, Engineer, City of Trenton Diasia Brooks, Chief Chemist, City of Trenton
	Carson, Heather		Andrew Pappachen, W-4 Licensed Operator of Record, Operation Taya Brown-Humphrey, Superintendent, City of Trenton Theresa Ponella, Engineer, City of Trenton Diasia Brooks, Chief Chemist, City of Trenton
	DiMeglio, Samantha		Andrew Pappachen, W-4 Licensed Operator of Record, Operation Taya Brown-Humphrey, Superintendent, City of Trenton Theresa Ponella, Engineer, City of Trenton Diasia Brooks, Chief Chemist, City of Trenton
	Stelmaszczyk, Patricia		Andrew Pappachen, W-4 Licensed Operator of Record, Operation Taya Brown-Humphrey, Superintendent, City of Trenton Theresa Ponella, Engineer, City of Trenton Diasia Brooks, Chief Chemist, City of Trenton

Three day inspection, 4/16/19-4/18/19.

TWW is currently under two Administrative Consent Orders (ACO). The first, executed on February 5, 2018, addresses system operations, staffing, emergency response and the covering of the finished water storage reservoir. The second, executed on July 26, 2018, addresses deficiencies with the Lead and Copper Rule.

Current/ Outstanding Violations that Require Action from TWW:

1. Failure to return to compliance with the one year deadline for TTHMs by the 3/5/19 deadline.

2, L&C monitoring and reporting violation for the 2nd half of 2018 sample results--requires a Tier 3 public notice (PN) by 1/17/20.

3. NOV issued to TWW on April 5, 2018, still effective until TWW replaces the filter bed media and completes rehabilitation on the chlorine contact tanks.

Inspection of the following facilities at TWW:

Filtration Plant
Central Pump Station
Reservoir Gatehouse
Ewing Storage Tank
Ewing Booster Station
Whitehorse Storage Tank
Mercerville Storage Tank

Items noted during the inspection:

- -Ewing booster station pumps from the Ewing Tank to the Jones Farm Tank, only used to maintain pressure, no chlorine injection at this station.
- Following the installation of phase 1 of the corrosion control treatment project, the WQP plan must be re-evaluated.
- Superpulsator units 1 & 4 were online during the inspection , 3 was cleaned and ready to put into service when needed. 2 is currently being cleaned.

- Streetside CT basin offline for rehabilitation.

- -TWW needs to resubmit the water utilization reports to reflect the water purchased by AQUA, still are not submitting them properly.
- TWW needs to resubmit the monthly intake flows to address discrepancies noted during the inspection.
- -After the data review, TWW was given a list of items that the Department needed clarification on. TWW provided what was requested and submitted the following corrective actions:
 - 1. submitted the missing BWSE-16 form for the 1st half 2018 monitoring period
- 2. submitted the correct L&C sample after it was discovered TWW submitted the wrong result for the addresses
 - 3. re-submitted the DR form to reflect the detected HPC sample
- DBP precursor reports were corrected and resubmitted for the incorrect values discovered by

 the
 Dept.
- -During the inspection the Department reviewed a few of the SOPs required by the February 5, 2018 ACO.
- -Chlorine residuals were reviewed on SCADA for all of 2018, anytime the residual indicated zero was due to a plant shut down or the analyzer required maintenance. The Department ensured that if the plant was still operations and the analyzer was not properly reading that grab samples were taken.
- -Reviewed daily operator reports for inconsistencies
- -T-reports reviewed, it was discovered that on multiple occasions the potassium permanganate feed was not feeding, this problem should be corrected now that TWW installed a second feed line for redundancy

Inspection Attribute(s)	Quantity(s)	
Number of Attributes: 0		į

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

Requirement	Status RTC	Results or Comments	Reqt. Source Ref# Reqt. Type
ubject Item: GSIN - General System Info New Feb 2018			
Operating Status: No status specified.			
Comments: No comments added.		•	
Pursuant to the New Jersey Water Supply & Wastewater Operators' Licensing Act (N.J.S.A. 58:11-64 et seq.), you are hereby directed to address the Operation and Maintenance (O&M) deficiencies identified during the inspection. These include, but not limited to, the Super Pulsator treatment units, Chlorine Contact Tanks, and evaluate/replace the Filter Bed Media within 90 days from the effective date of this document. [N.J.A.C. 7:10A-1]	ON	TWW has not yet completed the rehabilitation of the chlorine contact tanks, nor has the filter bed media been replaced. The Superpulsator units have been cleaned out. Until the chlorine contact basin and filter bed media replacement projects are completed, TWW will remain out of compliance with the NOV issued to TWW on April 5, 2018.	PEA180008
General System Info.	Н		Rules
			Т
			1
Indicate system contact person(s), phone number(s), and email address.	IC	Dr. Shing-Fu Hsueh, Utility Director, 609-477-9076, shsueh@trentonnj.org	Rules
		Kristin Epstein, Assistant Director, 856-952-9359, kepstein@trentonnj.org	Ţ
Are there any discrepancies between the current NJEMS General Inventory	Y	Changes within the following sections:	Rules
Report and the actual system's inventory?.		Demographics Service Connections	T
		3. Interconnections 4. Treatment Plant Processes	1
Does the owner of the water system contract with another entity to operate the	Y	Currently have operators from two contractors,	Rules
water system?		BANC3 and Wade Trim (Operations Services), working within the water filtration plant. Both the T-4 and W-4 licensed operators of record are Wade Operations Services employees. TWW also contracts out to AGRA Environmental for a Chemist within the laboratory.	Т
Does the total population served change on a seasonal basis? If so, indicate	N	All past literature provided by TWW stated 225,000	Rules
when and total population served during these periods.		as their population, but TWW determined their new population to be 217,000 based on census data. Once approved by the Bureau of Safe Drinking Water, the population will be changed in Drinking Water Watch.	Т
When required, are the parameters analyzed using the appropriate analytical	IC	AGRA (#14013) for rads (then outsourced to	Rules
methods by laboratory(ies) certified in accordance with N.J.A.C. 7:18-1 et. seq.? . [N.J.A.C. 7:10-5.3(b)]		Benchmark Analytical), Iron and Manganese, Nitrates, VOs, Inorganics and TOC. Trenton (#11133) for chlorine, turbidity, alkalinity and	Т
		pH. JR Henderson (#15083) for DBPs. Test America now for Lead and Copper.	
LICENSED OPERATOR.	H		Rules
			T
Does the owner of the system employ a licensed operator(s) holding the	IC	System is a T-4, W-4 system, TWW employes the	Rules
appropriate VSWS, T and/or W class license(s) prescribed for this system?. [N.J.A.C. 7:10A- 1.10(a)]		appropriate operators required by the system.	T

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

	Requirement	Status RTC	Results or Comments	Reqt. Source Ref# Reqt. Type
-	General System Info New Feb 2018 No status specified. No comments added.			
Verify name(s), licen system's licensed ope	se(s) held, contact numbers and email address for the trator(s).		Mark Lavenberg, Filtration Plant Licensed Operator (T-4), 609-680-7326, mlavenberg@operationsservices.com Andrew Pappachen, Distribution System Licensed Operator (W-4), 201-401-3955, apappachen@trentonnj.org Both Operations Services employees.	Rules T
	month is the licensed operator(s) on-site conducting operation of the system? .	IC	T-4: onsite 40 hrs/wk W-4: onsite 35 hrs/wk	Rules T
For T3/T4 systems is week?. [N.J.A.C. 7:1	the licensed operator present for at least 35 hours a 0A- 1.10(g)]	IC	See above. Also on call. If on call the operator must be able to get to the filtration plant within 20 minutes.	Rules T
Name of backup ope	rator and licenses held?.	DC	Taya Brown-Humphrey, Filtration Plant Superintendent, 609-213-3238, tbhumphrey@trentonnj.org, holds a T-4 license Tim London, Water Repairer II, tlondon@trentonnj.org, holds a W-3 license.	Rules T
schedule preventativ	erator conduct and document routine inspections and e maintenance tasks which will be undertaken to ensuerated and maintained properly?. [N.J.A.C. 7:10A-	IC IC	Since the execution of the February 5, 2018 ACO, TWW's routine inspection and preventative maintenance program has improved. Pursuant to paragraph 10(A) of the ACO, TWW provided the Department with logs and schedules of all routine inspections and preventative maintenance. TWW currently has an asset management software in place that has all assets inventoried and can schedule preventative maint. Within the filtration plant the operators conduct the routine inspections, and the water repairers conduct the routine maintenance. TWW also currently contracts with Municipal Maintenance for pump maint, Lockwood Electric for mixer maint, Scott Testing for electrical testing and ACS for calibrations.	Rules T
conducting operation	erator developed a protocol to ensure employees in and maintenance of the water system are aware of a ration and maintenance?. [N.J.A.C. 7:10A-1.12(a)2i]	nd [C	Under paragraph 9(A) of the February 5, 2018 ACO, TWW was required to train all employees on their responsibilities and obligations within the system. This included all SOPs for Operation and Maintenance (O&M). Since the execution of the ACO, TWW has improved in employee trainings for O&M.	Rules T
submit monthly ope	exator or owner of a Public Water Treatment System rating reports in the manner required by the Departme of the month following the month in which the data well. 7:10A- 1.12(d)]	ent IC	2018 T-Reports were reviewed onsite. The Dept documented any time there was a gap in the chemical feed and required TWW to respond with an explanation by 5/16/19. TWW provided an explanation.	Rules T

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

1111001 TRENTON WATER WORKS, Trenton City (SAFE DRINKING WATER)

Requirement	Status RTC	Results or Comments	Reqt, Source Ref# Reqt, Type
Subject Item: GSIN - General System Info New Feb 2018			V.
Operating Status: No status specified. Comments: No comments added.			
WATER SYSTEM OPERATIONS, MAINTENANCE & EMERGENCIES.	Н		Rules
WALLER OF BLANCO BY MARKET OF THE STATE OF T			T
Have there been any modifications or additions to any source, treatment or storage unit since the previous inspection? If so, were permits obtained prior to commencement of construction?. [N.J.A.C. 7:10-11.5(a)]	IC	TWW obtained a permit to install Phase 1 of the Corrosion Control Treatment Project effective January 9, 2019 under WCP180009. TWW also has a permit to cover the finished water reservoir, which under paragraph 17(L) of the February 5, 2018 ACO will be covered by January 14, 2023. This permit is effective April 4, 2017 and under permit WCP160007.	Rules T
Have any new or repaired components of source, treatment, storage and distribution mains been disinfected according to AWWA guidance prior to placing the components into service? . [N.J.A.C. 7:10-11.6(d)]	IC	When needed for water main breaks. An engineering tech from the Engineering Office oversees the disinfection and the Construction and Maintenance Office conducts the replacements of the broken pipes.	Rules T
Was a CCC submitted to the Department for all issued permits at the completion of construction?, [N.J.A.C. 7:10-11.10]	IC	TWW submitted the CCC for the sodium hypo conversion project at the filtration plant and reservoir gatehouse on 5/16/18. A disinfection profile and benchmark study was also conducted for this change in disinfection. CCCs for all water main extensions fall under the master permit and TWW submits the CCC for all completed projects with the annual master permit renewal application to the Bureau of Water Systems Engineering.	Rules T
Does the system have a program for inspecting and exercising valves? Are isolation valves maintained and exercised on a regular basis? Are all valves inventoried?.	Y	Pursuant to paragraph 17(D) of the February 5, 2018 ACO, TWW is required to exercise and evaluate all large diameter valves (greater than 8") by May 31, 2019. Ongoing program for inspecting and exercising all valves. Note TWW also must remain in compliance with the Water Quality Accountability Act (WQAA) for valve exercising, evaluation and replacement. Currently inventoring all valves. TWW has 50 isolation valves.	Rules T
Are all service connections metered, if the system serves 500 or more connections?. [N.J.A.C. 7:19- 6.5(a)5]	ND	TWW has implemented a new program which conduct an ongoing investigation to meter all services to aid in the reduction of unaccounted-for water.	Rules T

WN - Warning

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

1111001 TRENTON WATER WORKS, Trenton City (SAFE DRINKING WATER)

	Requirement	Status RTC	Results or Comments	Reqt, Source Ref # Reqt, Type
•	General System Info New Feb 2018 No status specified. No comments added.			
	uipment available for all indispensable source, pumping, [N.J.A.C. 7:10-11.6(I)]	IC	2 new NG generators at central pump station and reservoir gatehouse. These can kick on almost instantly. 1 diesel generator for the plant and redundant PSEG lines. Generators do not kick on immediately to prevent a surge, typically takes 30 min, but can vary. When plant is shutdown, the system is fed entirely by the reservoir. TWW experiences brown outs, TWW must implement an SOP for operators to address brown outs and returning the plant to normal operations. TWW is currently looking into energy resiliency and electrical stability with PSEG. And looking into conducting live drills to address brown outs.	Rules T
may tend to lessen th	ify the Department within 6 hours of any emergency that the quality or pressure of delivered water or increase the y of water that does not meet the standards?. [N.J.A.C.	IC	No emergency events since the 2018 inspection. Plant was shut down before any impact to water quality. NJDEP is notified, however TWW needs to be more descriptive with notifications. These notifications are required for events which include, but are not limited to, power outages/surges, chemical feed pump failures/disruptions, turbidity events, mechanical maintenance that takes a basin or mixer offline, etc.	Rules T
	r additives or water system components comply with the SF standards? . [N.J.A.C. 7:10- 8.2(b)]	IC	Reviewed onsite, chemicals had ANSI/NSF label.	Rules T
Does the system mai	ntain a boil water advisory log?.	Y	Kept by the W-4 licensed operator.	Rules T
Does the system mai	ntain a log of events that may impact water quality?.	Y	Logs kept if DEP is notified.	Rules T
	serving more than 3,000 residents or requested by the and submit an Emergency Response Plan?. [N.J.A.C.	ND	Requirement under paragraph 14(A) of the February 5, 2018 ACO. The Department is still determining compliance with this milestone. A fourth Dept response letter requesting additional information is in DRAFT.	Rules

NC - No Obvious Concern

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

	Requirement	Status RTC	Results or Comments	Reqt. Sourc Ref# Reqt. Type
•	General System Info New Feb 2018			
Operating Status:	No status specified.			
Comments:	No comments added.		-	
Did the purveyor pro [N.J.A.C. 7:10- 7.4]	vide public notice as required by the state regulations?.	ND	A Tier 2 Public notice (PN) was required and completed for the following violations: - 1st quarter 2018 TTHM and HAA5 MCL exceedance - 2nd quarter 2018 HAA5 MCL exceedance - 3rd quarter 2018 TTHM and HAA5 MCL exceedance - 4th quarter 2018 TTHM MCL exceedance - Failure to return the system to compliance within the one-year deadline for TTHMs and HAA5s - Failure to replace 7% of the lead service lines (LSLs) by the required deadline of June 30, 2018.	Rules T
			A Tier 3 PN is required to be conducted by January 17, 2020 for the Lead and Copper monitoring and reporting violation for failure to submit the sample results by the required deadline. TWW has not yet conducted this PN, although indicated it would be included in the CCR going out in 2019.	
	ovide public notice in accordance with CFR 141.201 et gulations?. [N.J.A.C. 7:10- 5.5(a)]	IC	No RTCR violations in 2018, state is more strigent than the federal regulations.	Rules
				T
(CCR) to its custom	epare and distribute a Consumer Confidence Report ers with a copy to the BSDW annually prior to July 1st a 1.155(c)?. [N.J.A.C. 7:10- 5.1]	s IC	TWW submits a draft of the CCR to the Department for approval before distribution. It is recommended by the Department that the CCR to be maile out this year contain the Tier 3 PN requirement for the L&C monitoring and reporting violation. Should TWW not but the PN within the CCR, TWW must go out with a seperate mailing to all persons served by the water system.	Rules T
that the report was a	bmit a CCR Certification form to the BSDW certifying ccurate and distributed to each customer annually by	IC	Submitted in 2018	Rules
October 1st as requi	red by CFR 141.155(c)?. [N.J.A.C. 7:10- 5.1]			T
above-ground air ga have written approv	er is discharged to sanitary sewer, is it discharged via an p and not through a direct connection and does the syste al from the appropriate sewerage authority to do so? 4(e)]. [N.J.A.C. 7:10-11.14(e)4]		Filters backwashed roughly every 60 run hours but based on increasing turbidity in the beds and pressure. Backwashing takes about 45 min. Backwashed to the Mechanical Dewatering Facility (MDF), not connected to sanitary. From MDF the water is returned to the head of the plant and solids are removed under TWW's NJPDES Residuals permit #NJ0224952.	Rules
FINISHED WATER	R STORAGE.	Н	·	Rules
				T

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

Requirement	Status RTC	Results or Comments	Regt. Sourc Ref# Regt. Type
ubject Item: GSIN - General System Info New Feb 2018 Operating Status: No status specified. Comments: No comments added.			
Does the system have adequate total storage capacity? If not, does the water system have an effective storage waiver issued by the Department?. [N.J.A.C. 7:19-6.7(b)]	IC	Whitehorse Tank: 1 MG Mercerville Tank: 1 MG Lawrence Tank: 1 MG Ewing Tank: 1 MG Jones Farm Tank: 1.35 MG Hopewell Tank: 0.6 MG Reservoir: 100 MG, 78 MG usable. Roughly a 3 day supply for the service area.	Rules T
Has the interior of the storage tank(s) been cleaned/inspected in the last 5 years?.	ND	Whitehorse Tank: interior inspection in 2017 coupled with valve and mixer installation. Mercerville Tank: inspection in 2018, resulted in the need to obtain a mixer and pump and altitude valve. However the report also says corrosion present. Lawrence Tank: inspected in 2018 Ewing Tank: inspected in 2016 when replaced hole Jones Farm Tank: inspected in 2018, however the report says poor mixing in the tank Hopewell Tank: inspected in 2018, however the report says that the tank isn't circulating properly and that there is sediment buildup in the tank and it needs to be sand blasted. While TWW has inspected the interior of all tanks, the Department is requiring TWW to provide the schedule to address the deficiencies noted in the reports.	?
Has the exterior of the tank been inspected/maintained in the last year?.	ND	Whitehorse Tank: exterior inspection in 2017. Mercerville Tank: inspection in 2018, however a hole in the roof was found. Lawrence Tank: painted in 2017. Ewing Tank: painted in 2017. Jones Farm Tank: inspected in 2018, however the report says the foundation needs sealant. Hopewell Tank: inspected in 2018. While TWW has inspected the exterior of all tanks, the Department is requiring TWW to provide the schedule to address the deficiencies noted in the reports.	Rules
Do the air vents, roof vents, overflow, and hatches have screens? . [N.J.A.C. 7:10-11.11(c)5]	IC	During this inspection, only the Ewing, Mercerville and Whitehorse Tanks were inspected. Could not observe roof vents, but reports indicated they were present, overflow hatches all had screens.	Rules T
Are there visible problems with the foundation for the tank? (settling, cracks, deterioration etc.).	Y	At the Whitehorse Tank the foundation is breaking away from one of the stands, needs to be remediated immediately. The Mercerville Tank had a loose bolt in the back, needs to be tightened.	Rules T
Are there visible problems on the exterior coating of the tank? (rust, pitting, corrosion, leaks etc.).	Y	Corrosion and coloring observed on the Mercerville Tank. Provide the Department with a schedule for addressing the problems with the exterior of this tank.	Rules T

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

	Requirement	Status RTC	Results or Comments	Reqt. Sourc Ref# Reqt. Type
•	General System Info New Feb 2018 No status specified. No comments added.			
Do all tanks >100,00 N.J.A.C. 7:10-11.1	00 gallons have an operable water level indicator?.	ON	Whitehorse Tank needs to replace the high-level sensor, it is reading higher in SCADA. Needs to be replaced immediately.	Rules T
s a low level alarm [:10-11.11(a)5]	present and functioning for all storage tanks?. [N.J.A.C.	IC	Alarms are through the SCADA system at the filtration plant.	Rules T
NTERCONNECTI	ONS.	Н		Rules T
nterconnection of s pecifying the condi	connected to any other water system via an ix inches or more in diameter, is there a written agreement tions for its use and has said written agreement been partment?. [N.J.A.C. 7:19-6.9(g)]	IC	Interconnection agreements were addressed under paragraph 12 of the February 5, 2018 ACO. TWW provided the agreements for the 2 interconnection with NJAW, and the 4 with AQUA (3 for Hamilton and 1 for Lawrence).	Rules T
Does the system regoperating conditions unounts (MGY), and	ularly purchase water under normal (non-emergent) ? If yes, indicate source(s) of interconnection(s), annual d months utilized.	Ñ	TWW sells to AQUA, however the flows are not being reported accurately on the water utilization reports. TWW is required to correct the reports and resubmit for 2018 and 2019.	Rules T
persons) purveyor, vosis on all intercon	Class 2 (10,001-50,000 persons) or Class 3 (over 50,000 were interconnection flow tests conducted on an annual nections six inches or more in diameter? Were the results ted to the Department by the end of each calendar year?.	IC	Addressed under paragraph 11 of the February 5, 2018 ACO, TWW provided the results of the flow tests on 12/31/19. These flow tests are an annual requirement.	Rules T
DISTRIBUTION S DOCUMENTATIO	YSTEM MONITORING, PLANS AND N.	Н		Rules T
manganese sample? copulation served to	at least 10,000 people, did it analyze one iron and one Was one additional sample each taken for every 50,000 a maximum of 5 samples each annually? (Not required y Water Systems). [N.J.A.C. 7:10- 7.3(c)]	IC	TWW takes 5 samples a year. Results were confirmed during the inspection.	Rules T
REVISED TOTAL	COLIFORM RULE.	S		Rules T
Has the water purve plan in accordance 7:10- 5.1]	eyor developed a revised total coliform rule sample siting with the Federal Regulations 40 CFR 141.853?. [N.J.A.C	IC	On January 18, 2019, TWW recieved approval from the Department regarding their RTCR sampling plan. System is required to take 150 samples per month effective 10/1/18.	Rules
Is the water purvey the Revised Total C	or collecting coliform samples at locations specified with Coliform Rule sample siting plan? [N.J.A.C. 7:10-5.1]	IC	Reviewed Chain of Custody (COC) cards during the time of the inspection.	Rules T

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

Requirement	Status RTC	Results or Comments	Reqt. Source Ref# Reqt. Type
Operating Status: No status specified. Comments: No comments added.			
Are repeat sampling locations identified within the Revised Total Coliform Rule sample siting plan?. [N.J.A.C. 7:10- 5.1]	IC	Repeat sampling locations outlined in the RTCR plan.	Rules T
For surface water systems or ground water systems serving >4,900 people, are he routine coliform samples being collected at regular time intervals hroughout each month? [N.J.A.C. 7:10- 5.1]	IC	Taken throughout the month. If multiple samples are taken from the same location they are spaced out over the month.	Rules T
Are the Total Coliform Rule sample sites evenly distributed? .	Y	Approved in the new RTCR plan.	Rules
LEAD & COPPER RULE.	s		Rules
Does the water system have a written lead and copper sampling plan that dentifies a pool of targeted sampling sites which is sufficiently large to ensure hat the water system can collect the number of lead and copper tap samples as required, whether on standard or reduced monitoring? [N.J.A.C. 7:10-5.1]	ND	Approved by the DEP on 12/8/16, however the L&C plan has been recently updated to reflect the new sampling sites that meet the tier criteria. The Department has not reviewed or approved the latest change to the L&C plan.	Rules T
For the most recent sampling event, did the water system sample from the argeted sampling pool identified in the lead and copper sampling plan?.	Y	All non-compliance samples taken were reported on the BWSE-16 form when instructed by the Dept to do so.	Rules T
During the most recent lead and copper sampling event, did the water system submit Form BSDW-56 as notification for all sample site changes between nonitoring periods in accordance with 40 CFR 141.90(a)(1)(v)?. [N.J.A.C. 7:10- 5.1]	ND	Submitted on 2/27/19 for the 2nd half of 2018 monitoring period. TWW must review the 56 form for the first half of 2018 sampling period and verify for accuracy. Should discrepancies arise TWW must resubmit the form.	Rules T
Does the water system have any lead service lines? If yes, were at least 50% of the sites sampled during the most recent sampling event from lead service ines? [N.J.A.C. 7:10-5.1]	IC	On 9/26/19 TWW came in to meet with the Department regarding L&C sampling. During this meeting the Department assisted TWW in ensuring this requirement was met with the sites selected.	Rules T
If the system had lead service lines, does the system maintain an inventory of these lead service lines and update the inventory as they are replaced?.	N	To date, TWW has not provided the Department with an initial Lead Service Line (LSL) inventory reflecting the TWW side material AND the homeowner side. TWW is currently out of compliance with the July 26, 2018 L&C ACO milestone for providing an inventory and have been liable for stipulated penalties since the deadline of the milestone. TWW created their own internal milestone of 7/15/19 to provide a better inventory, however until an initial LSL inventory is provided TWW will continue to accrue penalties.	Rules T

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Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

Requirement	Status RTC	Results or Comments	Reqt. Source Ref# Reqt. Type
General System Info New Feb 2018 No status specified. No comments added.			
loped a plan for replacing annually at least 7 percent of the lines if corrosion control treatment is installed and the exceeded?		July 26, 2018 ACO. TWW failed to meet the deadline for 7% replacement by 6/30/18 and will continue to not meet the annual deadline for replacement of the 14% and 21% replacement. TWW is currently evaluating the lines replaced under emergency circumstances to determine if any qualify for a full replacement; however, TWW was not keeping records of both sides of the service line. This has resulted in TWW not being able to see how many have been replaced to qualify for the 7% and has caused TWW to	Rules
om have a water quality parameter sampling plan, for ality parameters under the lead and copper rule, that ites are representative of the entire distribution system?.	Y	Distribution System: alkalinity 50 samples/6 months and pH 50 samples/6 months. Treatment Plant: alkalinity 1 sample/2 wks, pH 1 sample/2 weeks. Central Pump Station: alkalinity 1 sample/2 wks, pH 1 sample/2 weeks. The WQP plan must be updated following the installation of orthophosphate for CCT.	Rules T
rrosion control treatment, does the system have records or chemical feed corrosion control system? Does the system ords and purchasing records for the chemical?.	of Y em	their CCT. TWW obtained a permit to install phase 1	
Disinfection.	S		Rules
l taken for every total coliform sample? . [N.J.A.C. 7:10)- IC	Reviewed COCs for TC samples to ensure residual is being taken, residual is noted on the COC. If residual is <.05 they take a Heterotrophic Plate Count (HPC), but not consistent in recording HPC result on the COC card. Keep HPC results in a log book.	T Rules
ensuring the delivered water is microbiologically safe by er at the point of entry in compliance with the regulation C. 7:10-11.16 and maintaining a detectable chlorine 15% of the monthly distribution system samples?. (a)]	IC IC	TWW maintains a HPC log book to track how many samples have a DR of non-detect. Did not observe during our review that TWW had months that had >5% non-detect. The 6/8/19 TC card was negative for TC, residual was 0.01/0.05 and the HPC was 7/8. TWW must re-submit the Disinfection Residual (DR) form to reflect this, as the one TWW submitted for this sample does not reflect the detected HPC levels.	Rules T
	General System Info New Feb 2018 No status specified. No comments added. loped a plan for replacing annually at least 7 percent of e lines if corrosion control treatment is installed and the sceeded? m have a water quality parameter sampling plan, for ality parameters under the lead and copper rule, that ites are representative of the entire distribution system?. Trosion control treatment, does the system have records or chemical feed corrosion control system? Does the system and purchasing records for the chemical?. Disinfection. It taken for every total coliform sample? [N.J.A.C. 7:10] ensuring the delivered water is microbiologically safe by er at the point of entry in compliance with the regulation 2. 7:10–11.16 and maintaining a detectable chlorine 5% of the monthly distribution system samples?.	General System Info New Feb 2018 No status specified. No comments added. Toped a plan for replacing annually at least 7 percent of e lines if corrosion control treatment is installed and the exceeded? The state of the entire distribution system? Tosion control treatment, does the system have records of referenced corrosion control system? Tosion control treatment, does the system have records of referenced corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system? Tosion control treatment, does the system have records of referenced feed corrosion control system?	Seneral System Info New Feb 2018 No status specified. No comments added. Toped a plan for replacing annually at least 7 percent of le lines if corrosion control treatment is installed and the energy of the lines if corrosion control treatment is installed and the energy of the lines if corrosion control treatment is installed and the energy of the lines if corrosion control treatment is installed and the energy of the lines if corrosion control treatment is installed and the lead and copy of the lines of the service line. This has resulted in TWW not being able to see how any have been replacement; however, TWW was not keeping records of both sides of the service line. This has resulted in TWW not being able to see how many have been replaced to qualify for the 7% and has caused TWW to incur a NoNC for failing to sample the lines that were only partial replacements. This violation will be addressed under separate cover. In have a water quality parameter sampling plan, for ality parameters under the lead and copyer rule, that lites are representative of the entire distribution system? In have a water quality parameter sampling plan, for ality parameters under the lead and copyer rule, that lites are representative of the entire distribution system? In have a water quality parameter sampling plan, for ality parameters under the lead and copyer rule, that lites are representative of the entire distribution system? In have a water quality parameter sampling plan, for ality parameters under the lead and copyer rule, that lites are representative of the entire distribution system? In have a water quality parameter sampling plan, for ality parameter sampling plan, for ality parameter sampling plan, for all planes of the service of the plane of the service inc. This has replacement to the lites that were only partial replacements. This violation will be addressed under separate cover. Your partial replacements that it is alited to quality for the sample? In the cover of the service inc. This has replacement t

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

	Requirement	Status RTC	Results or Comments	Reqt. Source Ref# Reqt. Type
Subject Item: GSIN - (General System Info New Feb 2018			
Operating Status:	No status specified.			
Comments:	No comments added.			
changes, or have the	or updated the Stage 2 DBPR plan following operation y changed sampling locations only after approval was artment? (40CFR141.622). [N.J.A.C. 7:10-5.1]	IC	On 12/20/18, the Department required TWW to select an additional DBP sample site (totaling 9 sites) in the Hopewell service area. 800 Denow Rd in Pennington was selected and approved by the Department. The site was labeled ST2ADD, and became effective 2/1/19 for quarterly sampling per the requirements. TWW must ensure their DBP plan onsite was updated to reflect this change.	Rules T
MCL VIOLATIONS),	Н		Rules
				T
Did the water suppli	er notify the Department of all MCL exceedances in a	IC	Department notified based on the requirements.	Rules
timely manner?. [N.	J.A.C. 7:10- 5.4(c)]			Т
Did the water suppli	er take all necessary actions to return the water system to	ON	Failure to take action to return the water quality within	Rules
	ne year of receiving the results that caused an MCL [N.J.A.C. 7:10- 5.7(a)]		acceptable limits within one year of a MCL violation for both HAA5s and TTHMs. Returning a system to compliance with the DBP MCL requires two consecutive quarters below the MCL within the one-year timeframe. TWW failed to return the system to compliance with the 12/8/18 deadline for HAA5 and the 3/5/19 deadline for TTHM. TWW has returned to compliance with HAA5 based on the 1st quarter 2019 sample results. TWW has not yet returned to compliance with TTHMs as of the time of this inspection. TWW submitted a DBP Reduction Plan Evaluation and has hired an engineering firm to address DBPs within the filtration plant.	T i
Subject Item: NSW1	- New Surface/ GUDI Water Treatment Rule & POE Mon. Red	1 01		
Operating Status:	No status specified.			
Comments:	No comments added.			
SURFACE / GUDI REQUIREMENTS	WATER TREATMENT RULE & POE MONITORING 01.	Н		Rules T
Indicate the Surface	e / GUDI Treatment Plant Facility ID number, local name	DC	Rt 29 Water Filtration Plant, conventional treatment.	Rules
1 . 0.01	n (conventional, direct, or other).			Т
and type of filtratio				

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

1111001 TRENTON WATER WORKS, Trenton City (SAFE DRINKING WATER)

Requirement The second	Status Results or Comments RTC	Reqt. Sourc Ref # Reqt. Type
Subject Item: NSW1 - New Surface/ GUDI Water Treatment Rule & POE Mon. Req Operating Status: No status specified. Comments: No comments added.		
DBP PRECURSOR REMOVALS.	Н	Rules
DBI TILLOURDON NEWS TIES.		T
Was a paired treated/source water TOC sample collected from the surface water treatment plant on a monthly basis in order to measure the DBP levels	TOC samples analyzed by JR Henderson La reviewed DBP precursor reports for 2018.	
in accordance with 40 CFR141.132? . [N.J.A.C. 7:10- 5.1]		Т
Was the running annual average of monthly TOC removal results 1.0 or greater? (40CFR141.133(d)). [N.J.A.C. 7:10-5.1]	IC 2018: 1.39	Rules
		T
Was an alkalinity sample taken at the same time & location as the source water TOC sample? (40 CFR141.132). [N.J.A.C. 7:10-5.1]	IC Taken by TWW at the source.	Rules
		Τ
Is chlorination the last treatment process in a treatment plant with multiple treatment processes? If no, is it allowed by a permit? . [N.J.A.C.	IC Sodium hypochlorite injection is last step, a after Super Pulsator units before the chlorin	
7:10-11.16(a)2]	basins for CT, then flows to the filters. Resileaving the plant is between 0.8-1.2 mg/L.	
TREATEMENT PROCESSES.	Н	Rules
		T
Is the water system performing jar testing? If so at what frequency?.	Y Daily jar test, every shift and every 4 hours, mixer test every 2 hours, and run jar test ev	
	during a storm event. Dosage based off of jacks of 2019 TWW has a Zetasizer to assist i coagulation; however, they need to add a so because it keeps clogging with solids and d	ar tests. T n assessing creen on it
When was the last time the active basin(s) (flocculation, sedimentation, etc.) were inspected/maintained?.	Currently inspecting and rehabbing the Chl Contact basins, have to address one at a tim Riverside is currently online and the streets for maint and repairs. Sand separators are d just basins now, one of those basins is down before bringing it back online TWW must of There is a film growing on it. TWW indicat have a PO out to investigate why the sand s aren't working and to remediate the problem last inspection, the Department ordered TW address the Superpulsator treatment units. It since cleaned out 1,3 and 4 and currently of TWW has increased their maintenance and of the units per the Department's order. TW mixing basins which do no get inspected. T should be assessed through TWW's asset m plan for life cycle analysis to ensure long to of the units.	ne. ide is down T own, act as n, and clean it out. ded they seperators n. Since the VW to TWW has leaning 2. clean outs VW has 2 These units lanagement

NA - Not Applicable

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

1111001 TRENTON WATER WORKS Trenton City (SAFE DRINKING WATER)

	Requirement	Status RTC	Results or Comments	Reqt. Sourc Ref# Reqt. Type
-	- New Surface/ GUDI Water Treatment Rule & POE Mon. Req No status specified. No comments added.	01		
Have any basins bee other than routine m	en taken out of service since last inspection for reasons aintenance?.	Y	Rehabilitation of the chlorine contact tanks are ongoing. TWW also is obtaining a contract to replace the filter bed media for all 24 filters.	Rules T
Are basins free of cr	acks, peeling paint (in need of routine maintenance)?.	N	Sand separator basin needs to be cleaned prior to returning to service as a basin.	Rules T
FILTRATION.		Н		Rules T .
Are any filters out o	f service?.	Y	Filters 4E, 6E, 2W and 12W are out of service for repairs. 4E and 6E are waiting on parts. Filters run for about 60 hours before backwashed. Will be replacing filter bed media of all 24 filters.	Rules T
Type of filters (Grav Membrane: Pressure	vity: constant or declining rate: Pressure; GAC; or e or vacuum).	DC	Constant filter based on settled water level. No air scour, and its a 3 process backwash. Surface and two under washes. First under wash is 5 gpm, second under wash is 18-19 gpm. Backwash rate is based on bed expansion and changes with the seasons.	Rules T
Filter media type (s	ingle, dual, multi).	DC	dual, anthracite sand	Rules T
When was the last t	ime the filter media was replaced?.	DC	TWW currently has a contract out to replace all 24 filters, the evaluation of the beds were required by the Department following the March 2018 inspection and Notice of Violation (NOV).	Rules T
Dates that each filte	er was cored?.	DC	Cored in 2018 per the Department's order, will lead to a replacement of the media.	Rules T
TURBIDITY REM	OVAL.	Н		Rules T
Did the water syste (direct/conventiona [N.J.A.C. 7:10- 9.1	m calibrate turbidimeters as specified by the manufacturer I filtration only) [40 CFR141.174(a) & 40 CFR141.560].	IC	Turbidimeters calibrated by ACS every 3 months, logs kept. Chlorine analyzers calibrated every 6 months by ACS.	Rules T
Was continuous tureffluent (CFE) and	bidity monitoring being conducted for combined filter individual filter effluent (IFE)? . [N.J.A.C. 7:10- 9.6(a)]	ON	TWW failed to conduct continuous monitoring for filters 3E and 7W from 12:40am on 5/4/19 to 6:00pm on 5/4/19 while the beds were still online. Operators did not turn off beds even though readings were 0.0 NTU continuously. TWW failed to follow protocols for grab sampling for this event. NONC will be issued by the BSDW to address this violation.	Rules T

Y - Yes

Start Date: 4/16/2019

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Lead Investigator: Sponaugle, Jessica

	Status RTC	Results or Comments	Regt. Source Ref.# Regt. Type
Subject Item: NSW1 - New Surface/ GUDI Water Treatment Rule & POE Mon. Req 0' Operating Status: No status specified. Comments: No comments added.	1		
			y 1
Were all individual filter records maintained for at least 3 years in accordance with 40 CFR 141.571? (direct/conventional filtration only). [N.J.A.C. 7:10-9.1]	IC	Maintained within SCADA system.	Rules T
Were IFE turbidity monitoring results recorded every 15 minutes in	ON	Failure of systems to record the results of individual	Rules
accordance with 40 CFR 141.174 and 40 CFR 141.560? (conventional/direct filtration only). [N.J.A.C. 7:10-9.1]		filter monitoring every 15 minutes. Results were not recorded for filters 3E and 7W during the 5/4/19 incident. TWW failed to follow protocols for grab sampling for this event. NONC will be issued by the BSDW to address this violation.	Т
Were turbidity measurements of the combined filter effluent (CFE) recorded at	IC	No CFEs were reported down or not functioning in	Rules
a minimum every 4 hours in accordance with 40 CFR 141.173 & 40 CFR 141.5517. [N.J.A.C. 7:10- 9.1]		2018 by TWW.	T ·
Were the recorded CFE turbidity measurements less than or equal to 0.3 NTU in at least 95% of the samples taken in any month in accordance with 40 CFR	IC	Reviewed during the inspection on SCADA.	Rules
141.173 & 40 CFR 141.551? [N.J.A.C. 7:10- 9.2(a)3]			T
Were daily turbidity grab samples taken to verify the accuracy of all continuous turbidity analyzers/recorders? . [N.J.A.C. 7:10- 9.6(b)]	ON	Failure to verify the accuracy of the performance of each analyzer/recorder required pursuant to (a) above by taking a grab sample of the effluent at least once in every 24-hour period. No daily grab sample taken for these filters on 5/4/19. TWW failed to follow protocols for grab sampling for this event. NONC will be issued by the BSDW to address this violation.	Rules . T
If the turbidity monitoring device failed, did the water system take a grab sample at least once every four hours?. [N.J.A.C. 7:10- 9.6(b)]	ON	Failure to take a grab sample at least once every four hours during the period in which the analyzer/recorder is out of service, in the case of analyzer/recorder failure. No grab samples were taken during the 5/4/19 event for either filter that had a turbidimeter down. TWW failed to follow protocols for grab sampling for this event. NONC will be issued by the BSDW to address this violation.	Rules T
Were the CFE turbidity measurements reported monthly on the appropriate	IC		Rules
state forms? [N.J.A.C. 7:10- 9.1]			T
Was any recorded CFE sample greater than 1NTU? If yes, did the water	NA	None reported or observed in 2018.	Rules
system contact the state no later than the end of the next business day in accordance with 40 CFR 141.175 & 141.551? (conventional/direct filtration systems only) . [N.J.A.C. 7:10-9.1]			Т
For systems with a population of 10,000 or greater did an individual filter	NA	None reported or observed in 2018.	Rules
exceed >0.5 NTU in two consecutive 15 minute measurements (after the first four hours of operation) or exceed >1.0 NTU in two consecutive 15 minute measurements (during any time of operation)? If so did the purveyor complete a filter profile within 7 days in accordance with 40 CFR 141.175?. [N.J.A.C. 7:10-9.1]			Т

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

	tatus RTC	Results or Comments	Reqt. Source Ref# Reqt, Type
Subject Item: NSW1 - New Surface/ GUDI Water Treatment Rule & POE Mon. Req 01			
Operating Status: No status specified.			
Comments: No comments added.			******
Did the water system exceed >1.0 NTU in two consecutive 15 minute measurements (during any time of operation) in three consecutive months? If so did the purveyor produce an individual filter self-assessment report within 14 days in accordance with 40 CFR 141.75 & 40 CFR 141.563 [N.J.A.C. 7:10-9.1]. [N.J.A.C. 7:10-9.1]	NA	None reported or observed in 2018.	Rules T
Did the water system exceed > 2.0NTU (during any time of operation) in two consecutive months? If so, did the water purveyor conduct and report the results of a comprehensive performance evaluation within 90 days (for systems 10,000 or greater) or 120 days (for systems <10,000) in accordance with 40 CFR 141.175 & 40 CFR 141.563?. [N.J.A.C. 7:10-9.1]	NA	None reported or observed in 2018.	Rules T
Subject Item: WXAP - Prenjems Water Allocation Permit			
Operating Status: No status specified.			
Comments: No comments added.			
Apply for a Major Modification: within 30 days of receipt of this document for the increase in intake pump capacity from 25 MGD to 30 MGD. [N.J.A.C.	IC	Minor Modification effective 12/1/18 for increased raw intake pump capacity.	PEA180008
7:19-1]			S
Submit Water Conservation and Drought Management Plan: within 30 days of receipt of this document. [N.J.A.C. 7:19-2]	IC	Recieved 5/4/18.	PEA180008
,			S
Submit Proof of Flow Meter Calibration: within 30 days of receipt of this document for the intake flow meter. [N.J.A.C. 7:19-2]	IC	Calibrated 4/5/18.	PEA180008
			S
WATER ALLOCATION PERMIT.	Н		Rules
			T
Did the person obtain a Water Allocation Permit or a Temporary Dewatering Permit prior to diverting water either from a single diversion source or from	IC	#5187, minor modification effective 12/1/18.	Rules
combined diversion sources at a rate in excess of 100,000 gallons of water per day?. [N.J.A.C. 7:19- 1.10]			Т
Did the permittee submit an application for renewal of the current permit three months prior to the expiration of the permit?. [N.J.A.C. 7:19-2.4(a)]	IC	Due 12/31/26.	Rules
1	Ш		T
Did the permittee divert water solely for purposes authorized by the permit?. [N.J.A.C. 7:19-2.14(a)14]	IC	Public Community Water System	Rules
[1437.40] [117-214(0)]	Ш		T
OPERATION AND MAINTENANCE.	H		Rules
			T

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

	Requirement	Status RTC	Results or Comments	Reqt. Source Ref# Reqt. Type
Subject Item: WXAP - Operating Status: Comments:	Prenjems Water Allocation Permit No status specified. No comments added.			
Did the permittee pro [N.J.A.C. 7:19- 2.146	vide a totalizing flow meter for all diversion sources?. (a)4]		Flow is calculated using the totalizing flow meter and subtracting the recycled water flows from the MDF which are added before the totalizing flow meter.	Rules T
Did the permittee cal [N.J.A.C. 7:19- 2.14	ibrate each meter at least once every five years?. (a)4]	IC	Calibrated on 4/5/18, following the NOV issued to TWW from the March 2018 DEP inspection.	Rules T
	eive approval from the Bureau of Water Allocation prior aping equipment capacity?. [N.J.A.C. 7:19- 1.5(a)5]	IC	Minor modification recieved following the NOV issued to TWW from the March 2018 DEP inspection.	Rules T
	olic Community Water System, did the permittee meter all I.J.A.C. 7:19- 6.5(a)5]	ND	TWW is currently undergoing an extensive investigation of all connections to determine the universe of those not metered.	Rules T
	otect each source from vandalism, tampering, and times?. [N.J.A.C. 7:19- 2.14(c)]	IC	Surface water intake. Inspected twice a shift.	Rules T
	tain written permission from the Department prior to a specifications?. [N.J.A.C. 7:19- 2.14(a)]	IC	Minor modification recieved in 2018, no intention for changes in 2019.	Rules T
Did the permittee ke upon request?. [N.J	ep a copy of the permit at the work site and exhibit it A.C. 7:19- 2.14(a)]	IC	Available onsite.	Rules T
	onth end meter readings for each diversion source [N.J.A.C. 7:19- 2.14(a)]	ON	Reviewed onsite, discrepancies with what was reported and what was reviewed by the Dept. Re-evaluate and resubmit if errors.	Rules T
Has the permittee co [N.J.A.C. 7:19- 2.14	mplied with all of the specific conditions of the permit?. (a)]	ON	TWW has not yet complied with the requirement of reducing the unaccounted for water to less than 15%, currently at 31.9%.	Rules T
COMPLAINT INVE	ESTIGATION, REPORTING AND MITIGATION.	Н		Rules T
	vestigate any valid complaints by users of wells or surface n the zone of influence of this diversion?. [N.J.A.C. 7:19-	IC	WQ complaint log reviewed during the inspection. Complaints are logged and information regarding date, customer, and actions taken by TWW onsite. Recent compliants include chlorine smell, color and odor.	Rules T
	pair or replace any well or surface water supply that has ble as a result of the permittee's diversions?. [N.J.A.C.	NA		Rules T

Start Date: 4/16/2019

Activity: SCI190001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

1	Status RTC		Reqt. Source Ref# Reqt. Type
Subject Item: WXAP - Prenjems Water Allocation Permit Operating Status: No status specified.			
Comments: No comments added.			
WATER CONSERVATION AND DROUGHT MANAGEMENT PLAN.	Н		Rules
			T
Did the Water Allocation Permittee adopt and implement, to the satisfaction	IC	provided 5/4/18, due 5/31/2020.	Rules
of the Department, a Water Conservation and Drought Management Plan as required by the permit?. [N.J.A.C. 7:19- 2.14(a)10]			Т
Subject Item: WSIN72380 - DELAWARE RIVER			
Operating Status: No status specified.			
Comments: No comments added.			
Did the permittee divert water only from the approved source at the maximum rate specified in the permit?	Y	Have 3 intake pumps, 30 MGD.	WAP180001 2 L
Subject Item: WSWA72381 - 5187 WA PERMIT - ALL DIVERSION SOURCES Operating Status: No status specified. Comments: No comments added.			
Maximum Diversion Rate <= 41667.0 Gallons Per Minute (2 pumps @ 30 mgd each). [N.J.A.C. 7:19- 2.14(a)2]	IC		WAP180001 9 L
Water Diverted <= 1350.0 Million Gallons Per Month. [N.J.A.C. 7:19-2.14(a)2]	ND	2018: highest in July 2018 based off Dept calculations TWW's logs do no reflect this. Need to evaluate logs and re-submit reports in necessary.	, WAP180001 II L
Water Diverted <= 16200.0 Million Gallons Per Year. [N.J.A.C. 7:19-2.14(a)2]	ND	TWW needs to evaluate and re-submit logs to reflect annual diversions,	WAP180001 12 L
The permittee shall reduce unaccounted-for water to less than 15% by the expiration date of this permit. A detailed annual report shall be submitted outlining the measures taken to reduce the unaccounted-for water to below 15% and should included but not be limited to: identified areas of water loss; methods utilized for leak detection; leaks repaired; meters added/replaced, and updated unaccounted-for water calculations. In addition, copies of the AWWA Water Audit submittal to DRBC should be provided to the Bureau. Submit Report as Described: before starting 4/30/2018 the end of each year by April 30th of each year. [N.J.A.C. 7:19-2]	ON	TWW's unaccounted-for water is at 31.9%, annual report provided 3/29/19. The AWWA audit is due 4/30/19.	WAP180001 24 S