



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHRIS CHRISTIE

Governor

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Lt. Governor

Northern Bureau of Water Compliance and Enforcement

7 Ridgedale Avenue

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BOB MARTIN

Commissioner

Raymond M. Codey, Borough Administrator

May 23, 2016

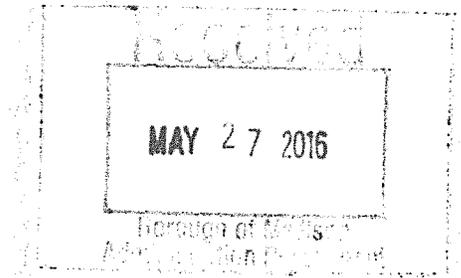
The Borough of Madison

50 Kings Road

Hartley Dodge Memorial Bldg

Madison, NJ 07940

RE: Compliance Evaluation and Assistance Inspection
Madison Water Department
PROGRAM INTEREST ID # 1417001
PROGRAM: Water Supply
Compliance Activity # SCI 150001
Madison Borough, Morris County



Dear Mr. Codey:

A Compliance Evaluation and Assistance Inspection of your public community water system was conducted on May 4, 2016. Please address any comments or concerns noted in the attached report.

Note that you may also review your inspection report as well as many other DEP reports online at www.nj.gov/dep/inspections. This website also gives you the opportunity to provide us feedback about our operations. We would appreciate your input and will share all results with you upon your completion of a survey.

This Department appreciates the continued operation of your facilities in an environmentally responsible manner.

If you have any questions concerning the attached report, contact me at (973) 656-4099.

Very truly yours,

Frank M. Panico
Environmental Specialist 3
Northern Bureau of Water
Compliance and Enforcement

Attachment

c: Thomas DeBiasse, Licensed Operator
Bureau of Safe Drinking Water

Date Printed: 05/23/16

CE Summary and Checklist with Included flag no Block and Lot

Activity: SCI 160001 *Standard Compliance Inspection (1417001)

Title Description: SCI - 5/4/2016

Start Date/Time: 05/04/2016 12:00 AM **End Date/Time:** 05/04/2016 12:00 AM

Lead Investigator: Panico, Frank

Other Investigators:

Persons Interviewed: Tom DeBiasse - Licensed Operator
Office: (973) 593-3092
Cell: (973) 886-5496

Witnesses: Patricia Gallagher - Office Assistant

Program Interest: MADISON WATER DEPT
1417001 (SAFE DRINKING WATER)
JOHN AVE,
MADISON, MORRIS County

Program Interest Mailing Address: 50 KINGS RD, HARTLEY DODGE MEMORIAL BLDG
MADISON, NJ 07940

Responsible Entity(s): MADISON BORO DPW

Other PIs included:

General Comments: Class: Public Community Water System
PWS ID#: 1417001

Inspection Results: Selected monitoring records were reviewed for compliance from May 2015 through April 2016. In addition, a physical inspection of the water system's observable components was also performed. Comments are as follows:

- 1) Raw water and point-of-entry (POE) sample locations have been labeled with either a "WL" number for raw or a "TP" number for the POE. It is suggested that either "Raw" or "POE" is added to the labels to avoid any confusion as to what each sample location represents.
- 2) Carbon Tetrachloride was detected in samples taken on 1/12/2016 (0.75 ug/L) and 4/12/2016 (0.86 ug/L) at Well C - North Street (TP003007). The Maximum Contaminant Level for Carbon Tetrachloride is currently 2.0 ug/L.
- 3) Well E - Niles Avenue Treatment Plant (TP005013) was placed back into full operation in April 2016.

Inspection Attribute:**Quantity:**

IC - In Compliance	ND - Compliance Not Determined	OC - Out of Compliance	NA - Not Applicable	NI - Not Inspected
PV - Potential Violation	NC - No Obvious Concern	ON - Out of Compliance, Non-referred	Y - Yes	N - No
DC - Data Collection	H - Heading	S - Sub-Heading	RTC - Return to Compliance	

1417001

Subject Item : WS22 0 - GENERAL SYSTEM INFO

Requirement	Status RTC	Results or Comments	Req Source Ref # Req. Type
GENERAL SYSTEM INFO.	H		Rules T
Indicate system contact person(s) and phone number(s).	DC	Tom DeBiasse - Licensed Operator Office: (973) 593-3092 Cell: (973) 886-5496 or Madison Police Department: (973) 593-3000	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]	IC	Yes - 100% metered	Rules T
Does the total population served change on a seasonal basis? If so, indicate when and total population served during these periods.	DC	No - Current population estimated at 15,820.	Rules 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)]	NA	None since last site visit.	Rules T
Are there any discrepancies between the current NJEMS General Inventory Report and the actual system's inventory?.	Y	Yes	Rules T
According to the water purveyor, is a minimum pressure of 20 psi maintained throughout the system?. [N.J.A.C. 7:19- 6.7(a)]	IC	Yes - 45 psi - 120 psi	Rules T
Does the system have adequate total storage capacity? If not, was a storage waiver issued by the Department?. [N.J.A.C. 7:19- 6.7(b)]	IC	Yes - 1.250 MG	Rules T
Is auxiliary power equipment available for all indispensable source, pumping, and treatment units?. [N.J.A.C. 7:10-11.6(I)]	IC	Yes	Rules T
What is the frequency of the system flushing program?.	DC	once a year	Rules T
SOURCES / DIVERSIONS	H		Rules T
If the system is interconnected to any other water system via an interconnection of six inches or more in diameter, is there a written agreement specifying the conditions for its use and has said written agreement been approved by the Department?. [N.J.A.C. 7:19-6.9(g)]	IC	Yes	Rules T
Does the system regularly purchase water under normal (non-emergent) operating conditions? If yes, indicate source(s) of interconnection(s), annual amounts (MGY), and months utilized.	DC	No	Rules T
Is the system a bulk distribution system as defined in N.J.A.C. 7:10-1.3? If yes, indicate system(s) supplemented, annual amounts (MGY), and months utilized.	DC	No	Rules T

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NA - Not Applicable
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N - No

1417001

Subject Item : WS22 0 - GENERAL SYSTEM INFO

Requirement	Status RTC	Results or Comments	Reqt Source Ref # Req. Type
If the purveyor is a Class 2 (10,001-50,000 persons) or Class 3 (over 50,000 persons) purveyor, were interconnection flow tests conducted on an annual basis on all interconnections six inches or more in diameter? Were the results of such tests submitted to the Department by the end of each calendar year?. [N.J.A.C. 7:19- 6.9(d)]	IC	Yes - performed annually	Rules T
LICENSED OPERATOR	S		Rules T
Does the owner of the system employ a licensed operator(s) holding the appropriate VSWS, T and/or W class license(s) prescribed for this system?. [N.J.A.C. 7:10A- 1.10(a)]	IC	Yes: System requires a "W3" and a "T2".	Rules T
List name(s), license(s) held, and contact numbers for the system's licensed operator(s).	DC	Tom DeBiasse: T2 / W3 Office: (973) 593-3092 Cell: (973) 886-5496 or Madison Police Department: (973) 593-3000	Rules T
How many hours per month is the licensed operator(s) on-site conducting duties pertaining to operation of the system?.	DC	40 hours a week	Rules T
Does the licensed operator have readily available written, detailed Operation and Maintenance procedures designed to maximize preventative maintenance and operational techniques?. [N.J.A.C. 7:10A- 1.12(a)1]	IC	Yes	Rules T
Does the licensed operator conduct and document routine inspections and schedule preventative maintenance tasks which will be undertaken to ensure that the system is operated and maintained properly?. [N.J.A.C. 7:10A- 1.12(a)]	IC	Yes	Rules T
Did the supplier of water maintain all records required under the National Regulations, daily records of water pumpage, quantities of chemicals used for water treatment and routine test results?. [N.J.A.C. 7:10- 5.6]	IC	Yes	Rules T
Did the licensed operator or owner of a Public Water Treatment System submit monthly operating reports on the forms provided by the Department before the 10th day of the month following the month in which the data was collected?. [N.J.A.C. 7:10A- 1.12(d)]	IC	Yes	Rules T
GENERAL MONITORING & REPORTING INFORMATION.	S		Rules T
When required, are the parameters analyzed using the appropriate analytical 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)]	IC	The system is using Passaic Valley Water Commission Lab. (#16047), Brick Twp MUA (#15006), NJDOH (#11036), and J R Henderson Labs Inc. (#15083) for all compliance sampling analysis except daily chlorine residual analysis at its treatment plants. The system is currently utilizing a "Hach" chlorine test kit based on the approved method (SM 4500-CL G DPD Colorimetric Method) for daily chlorine residual analysis at its treatment plants. The system has ceased using color wheels for determining the chlorine level and has begun using digital portable units (colorimeters).	Rules T

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S - Sub-Heading
NA - Not Applicable
Y - Yes
RTC - Return to Compliance
NI - Not Inspected
N - No

1417001 Subject Item : WS22 0 - GENERAL SYSTEM INFO

Requirement	Status RTC	Results or Comments	Req Source Ref # Req. Type
If required to be developed, was the Emergency Response Plan readily available for review and for use in an emergency?.	IC	Yes	Rules T
Except where a shorter reporting period is required by the National Regulations, did the purveyor submit a compliance sampling report to the Department within the first ten (10) calendar days of the month following the month in which any test, measurement or analysis is made?. [N.J.A.C. 7:10- 5.4(a)]	IC	Yes	Rules T

1417001 Subject Item : WS26 0 - DISTRIBUTION SYSTEM MONITORING REQUIREMENTS

Requirement	Status RTC	Results or Comments	Req Source Ref # Req. Type
DISTRIBUTION SYSTEM MONITORING REQUIREMENTS.	H		Rules T
How many routine total coliform samples are required per month? Which monitoring period was reviewed?.	DC	15 required / 15 or more taken Reviewed for the months of May 2015 through April 2016.	Rules T
Was routine total coliform monitoring performed in accordance with 40 CFR 141.21(a)? Note the monitoring period of any routine total coliform positive results that required repeat sampling. [N.J.A.C. 7:10- 5.2(a)2]	DC	Yes	Rules T
Was repeat coliform monitoring performed in accordance with 40 CFR 141.21(b)? If the results of repeat monitoring caused the system to incur an MCL violation, note the monitoring period. [N.J.A.C. 7:10- 5.2(a)2]	NA	No routine positives during the monitoring period reviewed.	Rules T
Was there an adequate Coliform Sampling Plan present?. [N.J.A.C. 7:10- 5.2(a)2]	IC	Yes	Rules T
Did systems serving at least 10,000 people analyze one iron & one manganese sample? Was one additional sample each taken for every 50,000 population served to a maximum of 5 samples each annually? (Not required for Non-Community Water Systems). [N.J.A.C. 7:10- 7.3(c)]	IC	Sample was taken on 12/8/2015.	Rules T
LEAD & COPPER MONITORING REQUIREMENTS	S		Rules T
Has the water system established and utilized a sampling pool of targeted sampling sites that meet the monitoring requirements of the Lead and Copper Rule?. [N.J.A.C. 7:10- 5.2(a)9]	IC	Yes	Rules T
Did the water system notify the state prior to changing sampling sites?. [N.J.A.C. 7:10- 5.2(a)9]	NA	No changes to sampling pool.	Rules T

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DC - Data Collection

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ON - Out of Compliance, Non-referred
S - Sub-Heading
NA - Not Applicable
Y - Yes
RTC - Return to Compliance
NI - Not Inspected
N - No

1417001

Subject Item : WS26 0 - DISTRIBUTION SYSTEM MONITORING REQUIREMENTS

Requirement	Status RTC	Results or Comments	Req Source Ref # Req. Type
Did the water system comply with the initial Lead and Copper monitoring requirements? . [N.J.A.C. 7:10- 5.2(a)9]	IC	Yes	Rules T
Has the Lead and Copper monitoring requirements for the water system been reduced? If yes, note what frequency & number of samples required/number taken. Also, note the most current three year monitoring period if the system is reduced to triennial monitoring.	DC	Yes - Triennial monitoring between 6/1-9/30 at 30 sample sites. Last sampling event: June & July 2015 (30 required / 30 samples taken)	Rules T
Did the water system exceed the lead or copper Action level? (If yes, include all corrosion control treatment requirements).	DC	No	Rules T

1417001

Subject Item : WS31 0 - GROUNDWATER POINT OF ENTRY MONITORING REQUIREMENTS 1

Requirement	Status RTC	Results or Comments	Req Source Ref # Req. Type
GROUNDWATER POINT OF ENTRY MONITORING REQUIREMENTS 1.	H		Rules T
Indicate the Treatment Plant Facility ID number and local name.	DC	TP001001 (Wells A & B - John Street) VOC removal via Packed Tower Aeration	Rules T
Was nitrate monitoring performed in accordance with 40 CFR 141.23(d)? . [N.J.A.C. 7:10- 5.1]	IC	Yes	Rules T
What was the nitrate sample date(s) and required sampling frequency?.	DC	11/18/2015 One sample per year during the 4th quarter.	Rules T
Was inorganic monitoring performed in accordance with 40 CFR 141.23(c) and in the state specified year of the triennial monitoring period? . [N.J.A.C. 7:10- 5.2(a)3]	IC	7/15/2014 One sample every 3 years.	Rules T
Is the water system on increased monitoring for VOCs? If yes, note frequency and sample dates reviewed.	IC	Yes - 1 sample per quarter required / 2 samples per month taken through April 2016.	Rules T
Was secondary monitoring performed in accordance with the state regulations and in the state specified year of the triennial monitoring period? (Not required for Non-Community Water Systems). [N.J.A.C. 7:10- 7.3(b)]	IC	7/15/2014 One sample every 3 years.	Rules T
Based on initial radionuclide monitoring results, what has the Department determined the radionuclide monitoring frequency to be for this treatment plant? (Not required for Non-Community Water Systems).	IC	5/6/2014 One sample every 3 years.	Rules T

1417001

Subject Item : WS32 0 - GROUNDWATER POINT OF ENTRY MONITORING REQUIREMENTS 2

IC - In Compliance
PV - Potential Violation
DC - Data Collection

ND - Compliance Not Determined
NC - No Obvious Concern
H - Heading

OC - Out of Compliance
ON - Out of Compliance, Non-referred
S - Sub-Heading
NA - Not Applicable
Y - Yes
RTC - Return to Compliance
NI - Not Inspected
N - No

1417001

Subject Item : WS32 0 - GROUNDWATER POINT OF ENTRY MONITORING REQUIREMENTS 2

Requirement	Status RTC	Results or Comments	Reqt Source Ref # Req. Type
GROUNDWATER POINT OF ENTRY MONITORING REQUIREMENTS 2.	H		Rules T
Indicate the Treatment Plant Facility ID number and local name.	DC	TP003007 (Well C - North Street)	Rules T
Was nitrate monitoring performed in accordance with 40 CFR 141.23(d)? . [N.J.A.C. 7:10- 5.1]	IC	Yes	Rules T
What was the nitrate sample date(s) and required sampling frequency?.	DC	11/18/2015 One sample per year during the 4th quarter.	Rules T
Was inorganic monitoring performed in accordance with 40 CFR 141.23(c) and in the state specified year of the triennial monitoring period? . [N.J.A.C. 7:10- 5.2(a)3]	IC	7/15/2014 One sample every 3 years.	Rules T
Is the water system on increased monitoring for VOCs? If yes, note frequency and sample dates reviewed.	DC	Yes - 1 sample per year required / 1 sample per quarter taken through April 2016. Carbon Tetrachloride was detected in samples taken on 1/12/2016 (0.75 ug/L) and 4/12/2016 (0.86 ug/L). The Maximum Contaminant Level for Carbon Tetrachloride is currently 2.0 ug/L.	Rules T
Was secondary monitoring performed in accordance with the state regulations and in the state specified year of the triennial monitoring period? (Not required for Non-Community Water Systems). [N.J.A.C. 7:10- 7.3(b)]	IC	7/15/2014 One sample every 3 years.	Rules T
Based on initial radionuclide monitoring results, what has the Department determined the radionuclide monitoring frequency to be for this treatment plant? (Not required for Non-Community Water Systems).	IC	5/2/2011 One sample every 6 years.	Rules T

1417001

Subject Item : WS33 0 - GROUNDWATER POINT OF ENTRY MONITORING REQUIREMENTS 3

Requirement	Status RTC	Results or Comments	Reqt Source Ref # Req. Type
GROUNDWATER POINT OF ENTRY MONITORING REQUIREMENTS 3.	H		Rules T
Indicate the Treatment Plant Facility ID number and local name.	DC	TP004010 (Well D - Loveland Street) VOC removal via Packed Tower Aeration	Rules T
Was nitrate monitoring performed in accordance with 40 CFR 141.23(d)? . [N.J.A.C. 7:10- 5.1]	IC	Yes	Rules T
What was the nitrate sample date(s) and required sampling frequency?.	DC	11/18/2015 One sample per year during the 4th quarter.	Rules T

IC - In Compliance
PV - Potential Violation
DC - Data Collection

ND - Compliance Not Determined
NC - No Obvious Concern
H - Heading

OC - Out of Compliance
ON - Out of Compliance, Non-referred
S - Sub-Heading
NA - Not Applicable
Y - Yes
RTC - Return to Compliance
NI - Not Inspected
N - No

1417001

Subject Item : WS33 0 - GROUNDWATER POINT OF ENTRY MONITORING REQUIREMENTS 3

Requirement	Status RTC	Results or Comments	Req't Source Ref # Req't. Type
Was inorganic monitoring performed in accordance with 40 CFR 141.23(c) and in the state specified year of the triennial monitoring period? . [N.J.A.C. 7:10- 5.2(a)3]	IC	7/15/2014 One sample every 3 years.	Rules T
Is the water system on increased monitoring for VOCs? If yes, note frequency and sample dates reviewed.	IC	Yes - 1 sample per quarter required / 2 samples per month taken through April 2016.	Rules T
Was secondary monitoring performed in accordance with the state regulations and in the state specified year of the triennial monitoring period? (Not required for Non-Community Water Systems). [N.J.A.C. 7:10- 7.3(b)]	IC	7/15/2014 One sample every 3 years.	Rules T
Based on initial radionuclide monitoring results, what has the Department determined the radionuclide monitoring frequency to be for this treatment plant? (Not required for Non-Community Water Systems).	IC	5/2/2011 One sample every 6 years.	Rules T

1417001

Subject Item : WS34 0 - GROUNDWATER POINT OF ENTRY MONITORING REQUIREMENTS 4

Requirement	Status RTC	Results or Comments	Req't Source Ref # Req't. Type
GROUNDWATER POINT OF ENTRY MONITORING REQUIREMENTS 4.	H		Rules T
Indicate the Treatment Plant Facility ID number and local name.	DC	TP005013 (Well E - Niles Avenue)	Rules T
Was nitrate monitoring performed in accordance with 40 CFR 141.23(d)? . [N.J.A.C. 7:10- 5.1]	IC	Yes	Rules T
What was the nitrate sample date(s) and required sampling frequency?.	DC	12/16/2015 One sample per year during the 4th quarter.	Rules T
Was inorganic monitoring performed in accordance with 40 CFR 141.23(c) and in the state specified year of the triennial monitoring period? . [N.J.A.C. 7:10- 5.2(a)3]	IC	7/15/2014 One sample every 3 years.	Rules T
Is the water system on increased monitoring for VOCs? If yes, note frequency and sample dates reviewed.	IC	Yes - 1 sample per quarter required / 1 sample per quarter taken through April 2016.	Rules T
Was secondary monitoring performed in accordance with the state regulations and in the state specified year of the triennial monitoring period? (Not required for Non-Community Water Systems). [N.J.A.C. 7:10- 7.3(b)]	IC	7/15/2014 One sample every 3 years.	Rules T
Based on initial radionuclide monitoring results, what has the Department determined the radionuclide monitoring frequency to be for this treatment plant? (Not required for Non-Community Water Systems).	IC	5/6/2014 One sample every 3 years.	Rules T

IC - In Compliance
PV - Potential Violation
DC - Data Collection

ND - Compliance Not Determined
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H - Heading

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S - Sub-Heading
NA - Not Applicable
Y - Yes
RTC - Return to Compliance
NI - Not Inspected
N - No

1417001

Subject Item : WS85 0 - DISINFECTANTS & DISINFECTION BYPRODUCT RULE MONITORING REQ

Requirement	Status RTC	Results or Comments	Req Source Ref # Req. Type
DISINFECTANTS & DISINFECTION BYPRODUCT RULE MONITORING REQUIREMENTS.	H		Rules T
STAGE 1 REQUIREMENTS.	H		Rules T
Were disinfectant residuals monitored at the same times and locations as coliform samples for water systems that disinfect with chlorine or chloramines as required by 40 CFR 141.132(c)(1)? Did the water system report monthly average results on a quarterly basis in Table C of the Disinfectant Residuals state reporting form? [N.J.A.C. 7:10- 5.1]	IC	Yes	Rules T
STAGE 2 REQUIREMENTS.	H		Rules T
With which Stage 2 schedule (1,2,3, or 4) is the water system required to comply?.	DC	Schedule 3	Rules T
Did the water system create and submit an IDSE (Standard Monitoring Plan or System Specific Study Plan) within the required time frame in accordance with 40 CFR 141.600(c)? If so, note the IDSE chosen and date submitted. [N.J.A.C. 7:10- 5]	IC	Yes - Quarterly monitoring required during June, September, December, March at the following 4 sample locations: - 50 Kings Rd - 309 Madison Ave - 5 Prospect Place - 208 Shunpike Rd Quarterly monitoring performed through March 2016.	Rules T
Did the system maintain a copy of the IDSE plan or 40/30 Certification for 10 years following the date it was submitted, and make it available for review?. [N.J.A.C. 7:10- 5.1]	IC	Yes	Rules T

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NA - Not Applicable
Y - Yes
RTC - Return to Compliance

NI - Not Inspected
N - No