AGENDA

DATE: Monday, October 17, 2016
TIME: 5:30 PM
PLACE: Public Works Center (Second Floor Conference Room), 15 South Smith Street

WPCA Regular Meeting:

1. Call to Order
2. Executive Session to discuss ongoing litigation with Flowserve about main lift pumps’ failure and sewage overflow findings by Connecticut Fund For the Environment
3. Approve the minutes from WPCA Meeting held on September 19, 2016 (copy included)
4. ACT on Connection Fee Waiver Request – 13 Day St and 20 Day St (letter included)
5. Contract Operations Report:
   a. OMI Monthly Operating Report – September 2016 (copy included)
   b. Update on Final Settling Tanks Short Term Modifications
   c. Discussion on Aeration Tank Blowers
6. Reports:
   a. FY16/17 Revenues/Expenditures MUNIS Reports (copy included)
   b. Discussion on Main Lift Pump Replacement Project Update
   c. Sewer Use Bill Appeals/Adjustments Update
      1) Appeal status
   d. Information Copies:
      1) Stormwater Monitoring Results (letter included)
7. Adjournment

Next WPCA Meeting: Monday, November 21, 2016
5:30 PM
Second Floor Conference Room, Public Works Center
15 South Smith Street
CITY OF NORWALK
WATER POLLUTION CONTROL AUTHORITY
September, 19, 2016

Attendance: Darren Oustafine, Chairman
John Ignieri
Dave McCarthy
Greg Burnett
Frederika Bikakis-Hajian

Staff: Bruce Chimento, DPW Director
Robert Barron, Finance Director
Lisa Burns, DPW Operations Director
Ralph Kolb, DPW Senior Environmental Engineer

Others: John Ahern, CH2M-Hill, OMI, Inc.
Paola Molloy, CH2M-Hill, OMI, Inc.
Scott Crenstein, Goldberg Segalla

1. CALL TO ORDER

Chairman Oustafine called the meeting to order at 5:34PM

2. EXECUTIVE SESSION TO DISCUSS ONGOING LITIGATION WITH FLOWSERVE ABOUT MAIN LIFT PUMPS' FAILURE

Executive session began at 5:35PM
Executive session ended at 6:35PM
No action was taken

3. APPROVE THE MINUTES FROM WPCA MEETING HELD ON JULY 18, 2016 (COPY INCLUDED)

** MR. MCCARTHY MOVED TO APPROVE THE MINUTES
** MOTION PASSED
** ONE ABSTENTION- MS. BIKAKIS-HAJIAN

4. AUTHORIZE THE DIRECTOR OF PUBLIC WORK’S RECOMMENDATION FOR NITROGEN CREDIT SHARING OF 25 PERCENT FOR 10 MONTHS TO OMI, INC. IN THE AMOUNT OF $73,297. (COPY INCLUDED)
ACCOUNT NO. 224052-5258

Mr. Kolb said that for 2015 the WPCA received $351,824 from the DEEP for nitrogen removal performance, and per amendment two of the OMI contract they can share up to 25 percent. He said that they were in band "D" for nitrogen for ten of the twelve months so the Director's recommendation is to share the nitrogen credit with OMI, Inc. for a total of $73,297.

** MR. IGNERI MOVED TO APPROVE THE ITEM
** MOTION PASSED UNANIMously

Mr. Ignieri left at 6:36FM

5. CONTRACT OPERATIONS REPORT:

a. OMI Monthly Operating Report- July and August 2016 (copy included)

Mr. Ahern reported on the July operating report and said there was a performance guarantee violation received. He said that while aeration tank number five was being filled, sediment was stirred up in the chlorine contact tank that resulted in an excursion of fecal coliform. He said that on July 5, 2016, there was a 42,500 gallon spill at the Wastewater Treatment Plant which was due to a collapse of Final Settling Tank scum troughs one and four. Mr. Burnett asked what would be considered a catastrophic spill. Mr. Ahern said that this was considered a decent size spill, but it was partially treated and the only process that it did not go through was chlorination and dechlorination. Mr. Kolb said that it was also mixed with stormwater runoff and there were no solids lost. Mr. Oustafine asked if there were any odors. Mr. Kolb said "no". Ms. Bikakis-Hajian asked if there were any issues with the shellfish beds. Mr. Kolb said "no" and that staff was working with Aquaculture and that there were samples taken of the shellfish, and some of the beds were closed due to the rain and the bypass event.

Mr. Ahern reported on the August operating report and said that there was a monthly permit violation received on August 5th which was due to a chlorine excursion. He said that there was also a performance guarantee violation which was a result of warm temperatures and beak point chlorination. He reported on the collections system and said that the production rate for CCTV for the month on August was 0.4 miles, and that the monthly rolling average for televising was 1.10 miles a month, and for cleaning was 4.24 miles a month. He said that next month's TV inspection efforts will continue to focus on documenting the known critical areas, and sewer lined crossing streets on the five year paving list. He said that nitrogen was in band "D".

1) August 21st/22nd Storm Event

Mr. Kolb said that in the process of having the contractor working on main lift pump number two replacement there was a rain event, and that two inches of rain had fallen in a very short period of time, and that the three pumps that were available use were all operating, but that pumps four and six had tripped. He said that staff has been working with ARCADIS and OMI's electrician to analyze and determine what caused the pump failures, and will probably be issuing a change order to the main lift pump project to include special programming software.
b. NACWA Silver Peak Performance Award (copy included)
Mr. Kolb said that for 2015 Norwalk has received this award from NACWA for consistent compliance.

c. Update on Final Settling Tanks Short Term Modifications
Mr. Kolb said that OMI has been dealing with scum trough issues in the final settling tanks since the beginning of this year, and that Northeast Water was contracted by OMI to inspect and repair the scum troughs as needed. He said that the contractor has now completed tanks one through four. Mr. Ahern said that they have also decided to enlarge the scum pit containment area so that if there were to be a spill it will be contained. He said that they also decided to install valves in the containment area so that if there is any indication that the troughs may fall into the tank, the operator will be able to close the valves. He said that the manufacturer of the tanks has performed a comprehensive evaluation, and ARCADIS is looking into a long term solution. Mr. Kolb said that he is waiting to see the draft report and will then enter into a more detailed final settling tank evaluation task order with ARCADIS.

d. Discussion on Aeration Tank Blowers
Mr. Ahern said that there are issues with the blowers, and that they were down to one blower, and had to move one of the motors over to blower number one so that if there was a problem it would be able to run off the generator. He said at this time there are two blowers that are operable, and they are in the process of getting quotes to either replace or repair the inoperable blowers and also quotes on rigging to remove and install the blowers. Mr. Chimento asked how many blowers are needed to operate. Mr. Ahern said one.

Mr. Kolb said that the phase II project that was put on hold was going to replace the blowers as part of that project and are now looking to replace them as part of the solids handling project and have just begun the evaluation study. Ms. Bikakis-Hajian asked what the cost to transport the blowers is. Mr. Ahern said approximately $1500.

6. REPORTS

a. FY15/16 and FY 16/17 Revenues/Expenditures MUNIS Report (copy included)
No discussion.

b. WPCA Response to EPA’s 308 Request (copy included)
Mr. Kolb said that the EPA had submitted a 308 request for information and staff had responded. Ms. Burns said that the request also included questions on the city’s stormwater program and as a result other city departments may be affected.

c. Discussion on WPCA Projects:

1) Main Lift Pump Replacement Project Update
Mr. Kolb said that pump one has been operating, and that pump two has been installed, and the contractor is in the process of doing the piping. He said that startup for pump two should be later this month.
2) Collections System Improvements- Basis and Design (copy included)
   Mr. Kolb said that we have entered in basis of design for on-call services and this is to develop future collection system projects.

3) Solids Handling, Aeration Improvements, and Odor Control Evaluation (copy included)
   Mr. Kolb said that this is for task number one with ARCADIS and it is to perform an initial assessment of the solids handling, aeration, and odor control improvements at the Wastewater Treatment Plant.

4) Pump Station Projects- Generator Evaluation (copy included)
   Mr. Kolb said that this is for task number one with Wright-Pierce and that there are six pump stations that have old generators, and this will assess future demands for generator replacement.

d. Walk Bridge Program Update
   Mr. Kolb said that Lochner Engineering has signed the agreement between the City of Norwalk and Lochner Engineering for the Walk Bridge project to represent the WPCA.

e. Public Works, Fire, and Police Open House- October 1st
   Mr. Kolb said that the Open House is from 10:00AM-1:00PM and that staff from OMI, Inc. will be giving tours of the Wastewater Treatment Plant.

f. Sewer Use Bill Appeals/Adjustments Update
   1) Appeal status
      Mr. Kolb said that the adjustments to date are $49,137.

g. Information Copies:
   1. Notice of Sale of Equivalent Nitrogen Credits (copy included)
      No discussion.
      No discussion.

7. ADJOURNMENT

** MR. MCCARTHY MOVED TO ADJOURN
** MOTION PASSED UNANIMOUSLY

The meeting adjourned at 7:05PM

Respectfully Submitted,

Dilene Byrd
Mr. Darrell Oustafine, Chairman  
Board of Directors  
Water Pollution Control Authority Norwalk  
15 South Street, Second Floor, Norwalk, CT 06855

Re: WASHINGTON VILLAGE REDEVELOPMENT Phase One  
13 Day Street and 20 Day Street, South Norwalk, CT  
Request for utility Connection Fee Waivers

Dear Mr. Oustafine,

The primary purpose of this brief letter is to inform you of this project but also to request that WPCA waive the meter connection fees that total $107,580 for the two buildings. In doing so, the WPCA stretches our funds so that we can allocate resources to other important parts of the project. Furthermore, such an approval would demonstrate the Authority’s thoughtful commitment to positive redevelopment in South Norwalk.

As you may be aware, the Norwalk Housing Authority is partnering with a private developer to revitalize Washington Village Apartments in South Norwalk. This project will include the demolition of 136 units of obsolete housing and the construction of 273 new dwellings in five buildings over the course of the next few years. We are very excited to begin construction on Phase One this autumn.

This proposed Phase One is comprised of the construction of 80 apartments in two buildings. The housing is to be constructed on two vacant brownfield parcels adjacent to the existing Washington Village housing (which will be demolished and replaced on completion of these new buildings.) The project is located in a Coastal Flood Zone and will be constructed simultaneously with the City of Norwalk’s reconstruction of adjacent Raymond and Day Streets to mitigate flood damage to the development. Construction is anticipated to start in December 2016 and all buildings substantially completed by or before February 2018. We expect this project to achieve the city’s vision for a revitalized neighborhood.

This project has been made possible through a layering of funding sources which consists of a Choice Neighborhood Initiative (CNI) federal grant, state tax credits, loans, and private investment. The CNI grant is aimed at improving not only the existing Washington Village site but also at building out neighboring vacant lots, and completing rebuilding Ryan Park as a beautiful common open space for South Norwalk residents to enjoy. The CNI funds have made it possible to leverage other investments and contributions.
Thank you for your kind consideration of this request. I am happy to appear before the board on October 17 if that is your pleasure.

Please feel free to contact me with any questions regarding this request.

Sincerely,

Curtis Law
Executive Director

CC: Harry Rilling, Mayor of the City of Norwalk
1 Plant Activities

A Maintenance

**MRP Repairs/Upgrades**
- Replaced polymer motor stator for GBT. Cleaned south CCT and dechlor tank. Replaced fuses in MLP #4. Replaced lab AC condenser. Unclogged bar screen #2. Replaced UPS for BFP.
- Repaired RAS pump #4 also repaired discharge piping #4 RAS. Repaired IMLR #7. Repaired polymer make up unit controller.
- Replaced brushes on FST #3. Replaced skimming arm support on FST #3. Replaced skimmer arms on FST #4. Replaced scum trough on FST #4. Repaired primary tank flights and chain.
- Worked with CH Nickerson on MLP #2 re-placement. Rebuilt #2 blend tank valves. Unclogged MLP 3 & 4 pressure switches.

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B Violations

**Permit Monthly**

**Excursion - Reason**

**Performance Guarantee**
- 9-6 FC Daily Max Excursion of 162.Guar.FC 100 , Re. tank cleaning FC monthly Exc of 15 . Guar. FC 10 Re. . Break point chlorination

C Training

**Safety**
- Continued with HANDS on line training
- Updated and conducted training on Work Control Plan, AHA's and pre-task planning

**Other**

2 Collection Systems

A Pump Stations

**MRP Repairs/Upgrades**
- Replaced high, high float alarm at Marvin Beach PS and Replaced Pump at Marvin Beach PS. Unclogged pump at Shady Beach PS. Wet well draw down at Westport and Shady Beach PS's.

B Collection System

**Spill / Overflow Reports**
- 9-13 Septage truck spilled 150 gal. 9-14: 1 Autumn St. 50 gal spill. Cleared clogged line. 9-26 11 Leann Dr. 1270 gal spill. Line for bubblers at Westport PS was clogged. Cleared clog, 9-30, 11 Leann Dr. 350 gal spill. Air compressor for bubbler failed. Replaced compressor.

C Collections Repairs

- Repaired Bubbler system at Westport Ave PS and replaced air compressor for the bubbler system.
3 Personnel

A Number of Associates / Wastewater Operator Certifications

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B Changes

4 Safety

Completed Quarterly Odor Survey

OSHA Recordable Incidents None
Lost Time Incidents None

5 Total Nitrogen Performance

Avg. Influent Wastewater Temp. (°C) 24
Avg. BOD Loading (lbs./day) 16,111
Actual TN Performance (lbs./day) 558
Lookup Value (lbs./day) 727
Actual minus Lookup (lbs./day) -169
TN Performance Band EOR
Uncontrollable Circumstances None
Operational Review Findings None
SOP Status

Summary of Findings

Inventory at targets.

Description of Ranges/Bands

Expected Operating Range

- **Band A**: aTN between 1 to 175 lbs./day less than LV
- **Band B**: aTN between LV and up to 117 lbs./day in excess of LV
- **Band C**: aTN between 118 and 234 lbs./day in excess of LV
- **Band D**: aTN greater than 234 lbs./day in excess of LV

aTN 176 lbs./day less than LV

6 Miscellaneous

Regulatory Inspections None

Storm Flow Events None
Norwalk WPCA
Norwalk WPCF - Monthly Report
September-16

1. Plant Operations
   A. Major Parameters

   Monthly average
   BOD (mg/l)

   Monthly average
   TSS (mg/l)

   Monthly average
   Fecal (#/100 ml)

   Monthly average
   TN (lbs/day)

   12-month Rolling average
   TN (lbs/day)

   Monthly average
   Flow MGD
1) Collection System Data Management and Inspection

(a) Cityworks data entry for September 2016 are reflected in attached tables
   (i) Production rate for CCTV for the month of September is 0.6 miles. Next month’s TV inspection
       efforts continue to focus on documenting known critical areas and sewer lines crossing streets
       on the 5-year paving list.
       1. Monthly rolling averages
          a. TV – 1.0 miles a month
          b. Cleaning – 3.9 miles a month
       (ii) Focused CCTV and Cleaning priorities
            1. Older clay pipes that haven’t been TV’d in over 3 years
            2. Sewer problem areas
            3. CCTV lines that intersect the paving list – Received the 5-year paving list from the
               City. CCTV in progress for 2016 paving list. See attached maps for paving list details.
   (b) Hot spot list
       (i) Some hotspots that have not shown signs of debris build up will be added to a watch list and
           potentially phased out
   (c) Pipe condition downstream of PS forcemains
       (i) 1 PS remaining – Perry Ave PS. Need low flow and traffic control to perform.
   (d) Protruding laterals
       (i) No protruding laterals cut in the month of September.
   (e) Manhole raising
       (i) No manholes were identified to be raised in September.

2) Major Repair & Replacement Projects:

   (a) Nothing new to report this month.

3) WPCA Capital Improvement Projects (CIPs):

   (a) Task Order 1: Basis of Design
       (i) Task is 60% complete
       (ii) Next work item is to complete borings near Marvin Beach PS

4) Current Evaluations:

   (a) New items this month:
       (i) 11 Leann bypass was caused by defective bubbler/ compressor in the Westport Ave pump
           station. The compressor has been replaced.
       (j) 42 Bouton St bypass was caused by grease in the pipe. The pipe has been cleaned. The
           pipe. Heavy cleaning required in the area.
       (k) CCTV to be conducted on Partrick Ave from Cranbury Rd to Newtown Ave to understand the
           condition of the sanitary sewer prior to new development approval.
   (l) Carry over from previous month:
       (i) East Avenue (West Port Ave to Merrill)– Wet weather issues– OMI CCTV data Merrill @ East
           Ave – state drainage tied to sanitary. CCTV of side roads is complete. CCTV results show
           catch basin connection.
       (ii) Crescent Street – CCTV to be conducted to verify potential extraneous flow shown in metering
       (iii) Potential cross connection – storm into sanitary in a 54 inch near imax theater, south of siohun
           chamber on Washington Street. Still being investigated.
       (iv) Glover Ave: CCTV Seir hill Rd area to be conducted to determine if there are illicit connections
           into the sewer system
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## OMI NORWALK
### SERVICE REQUEST SUMMARY
9/1/2016 - 9/30/2016

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FOR 2017 99

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22 WATER POLLUTION CONTROL

040 PUBLIC WORKS

224062 WATER POLLUTION CONTROL

224062 4051 SEWER CHARGE INTEREST  -65,000  0  0  0  -28,476.97  .00  -36,523.03  43.8%
224062 4121 NITROGEN CREDI" TRADIN  -351,824  0  -351,824  -351,824.00  .00  850.00  100.0%
224062 4451 SEWER PERMITS           0  0  0  -850.00  .00  850.00  100.0%
224062 4453 SEPTIC LICENSE          -1,500  0  0  -1,500.00  .00  1,500.00  100.0%
224062 4513 SEWER USE CHARGES       -14,516,300  0  -14,516,300  -15,319,710.00  .00  803,410.00  105.5%
224062 4516 SEPTIC DISPOSAL FEE     -325,000  0  0  -325,000.00  .00  271,500.00  16.5%
224062 4521 SEWER USE CHARGES-WILT  -490,000  0  -490,000  -490,000.00  .00  490,000.00  0%
224062 4522 SEWER USE CHARGES-OUT   -55,000  0  -55,000  -54,396.00  .00  -604.00  98.9%
224062 452C INDUSTRIAL PRE-TREATMEN  -220,000  0  0  -220,000.00  .00  -5,950.00  97.3%
224062 452D SEWER CONNECTION FEES   -100,000  0  0  -100,000.00  .00  -93,480.00  6.5%
224062 452E INDUSTRIAL PRE-TREATMEN  0  0  0  -996.01  .00  996.01  100.0%
224062 489F EXPENDITURE REIMB G F   -430,741  0  -430,741  .00  .00  -430,741.00  0%
224062 4901 INVESTMENT INCOME      -100,000  0  -100,000  -18,185.00  .00  -81,815.00  18.2%

TOTAL WATER POLLUTION CONTROL  -16,655,365  0  0  -16,048,507.98  .00  -606,857.02  96.4%
TOTAL PUBLIC WORKS             -16,655,365  0  0  -16,048,507.98  .00  -606,857.02  96.4%
TOTAL WATER POLLUTION CONTROL  -16,655,365  0  0  -16,048,507.98  .00  -606,857.02  96.4%
TOTAL REVENUES                 -16,655,365  0  0  -16,048,507.98  .00  -606,857.02  96.4%
GRAND TOTAL                   -16,655,365  0  0  -16,048,507.98  .00  -606,857.02  96.4%

** END OF REPORT - Generated by Dilene Byrd **
<table>
<thead>
<tr>
<th>FOR 2017 99</th>
<th>ORIGINAL APPROP</th>
<th>TRANFRS/ ADJUSTMTS</th>
<th>REVISED BUDGET</th>
<th>YTD EXPENDED</th>
<th>ENC/REQ</th>
<th>AVAILABLE BUDGET</th>
<th>PCT USED</th>
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<tr>
<td><strong>22 WATER POLLUTION CONTROL</strong></td>
<td><strong>040 PUBLIC WORKS</strong></td>
<td><strong>224062 WATER POLLUTION CONTROL</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>224062 5110 WAGES &amp; SALARY-REGULAR</td>
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<td>0</td>
<td>361,372</td>
<td>93,748.52</td>
<td>.00</td>
<td>267,623.48</td>
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<td>224062 5120 WAGES &amp; SALARY-OVERTIM</td>
<td>10,000</td>
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<td>10,000</td>
<td>152.16</td>
<td>.00</td>
<td>9,847.84</td>
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<td>224062 5140 WAGES &amp; SALARY-PART TI</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>6,109.07</td>
<td>.00</td>
<td>-6,109.07</td>
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<tr>
<td>224062 5150 LONGEVITY</td>
<td>975</td>
<td>0</td>
<td>975</td>
<td>.00</td>
<td>.00</td>
<td>975.00</td>
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<tr>
<td>224062 5235 MEMBERSHIPS &amp; DUES</td>
<td>10,000</td>
<td>0</td>
<td>10,000</td>
<td>6,994.00</td>
<td>.00</td>
<td>3,006.00</td>
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<td>224062 5241 ELECTRIC</td>
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<td>1,412,700</td>
<td>122,530.39</td>
<td>.00</td>
<td>1,290,169.61</td>
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<tr>
<td>224062 5245 TELEPHONE</td>
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<td>24,000</td>
<td>559.35</td>
<td>.00</td>
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<td>224062 5252 LEGAL SERVICES</td>
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<td>0</td>
<td>200,000</td>
<td>4,638.33</td>
<td>.00</td>
<td>195,361.67</td>
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<td>224062 5258 OMI AGREEMENT</td>
<td>5,597,910</td>
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<td>5,597,910</td>
<td>901,635.58</td>
<td>3,995,321.92</td>
<td>700,952.50</td>
<td>87.5%</td>
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<td>224062 5276 PURCHASE OF UNIFORMS/CLOTH</td>
<td>0</td>
<td>0</td>
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<td>82.48</td>
<td>.00</td>
<td>-82.48</td>
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<tr>
<td>224062 5286 BUSINESS EXPENSE</td>
<td>20,000</td>
<td>0</td>
<td>20,000</td>
<td>1,519.77</td>
<td>.00</td>
<td>18,480.23</td>
<td>7.6%</td>
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<tr>
<td>224062 5295 SEMINAR&amp;CONFERENCE FEE</td>
<td>6,000</td>
<td>0</td>
<td>6,000</td>
<td>1,080.40</td>
<td>.00</td>
<td>4,919.60</td>
<td>18.0%</td>
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<tr>
<td>224062 5298 OTHER CONTRACTUAL SERV</td>
<td>200,000</td>
<td>232,839</td>
<td>432,839</td>
<td>15,515.50</td>
<td>237,469.50</td>
<td>179,853.52</td>
<td>58.4%</td>
</tr>
<tr>
<td>224062 5412 INSURANCE</td>
<td>223,622</td>
<td>0</td>
<td>223,622</td>
<td>.00</td>
<td>.00</td>
<td>223,622.00</td>
<td>0%</td>
</tr>
<tr>
<td>224062 5428 EMPLOYEE BENEFITS</td>
<td>392,611</td>
<td>0</td>
<td>392,611</td>
<td>27,685.00</td>
<td>.00</td>
<td>364,926.00</td>
<td>14.4%</td>
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<tr>
<td>224062 5521 DEBT SERVICE PRINCIPAL</td>
<td>4,542,428</td>
<td>0</td>
<td>4,542,428</td>
<td>4,355,328.81</td>
<td>.00</td>
<td>187,109.19</td>
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<td>224062 5522 DEBT SERVICE INTEREST</td>
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<td>2,387.02</td>
<td>.00</td>
<td>838,745.98</td>
<td>0.3%</td>
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<tr>
<td>224062 5651 REIMBURSE G/F FOR P&amp;Y</td>
<td>576,171</td>
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<td>.00</td>
<td>.00</td>
<td>576,171.00</td>
<td>0%</td>
</tr>
<tr>
<td>224062 5741 IT HARDWARE</td>
<td>20,000</td>
<td>0</td>
<td>20,000</td>
<td>2,250.00</td>
<td>.00</td>
<td>17,750.00</td>
<td>11.3%</td>
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<tr>
<td>224062 5777 WPCA CAPITAL CONSTRUCT</td>
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<td>0</td>
<td>0</td>
<td>-140,353.63</td>
<td>.00</td>
<td>140,353.63</td>
<td>100.0%</td>
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<tr>
<td>224062 5789 REPAIR REPLACEMENT RES</td>
<td>3,266,443</td>
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<td>3,266,443</td>
<td>.00</td>
<td>.00</td>
<td>3,266,443.00</td>
<td>0%</td>
</tr>
<tr>
<td><strong>TOTAL WATER POLLUTION CONTROL</strong></td>
<td>17,505,365</td>
<td>232,839</td>
<td>17,738,204</td>
<td>5,401,832.75</td>
<td>4,232,791.42</td>
<td>8,103,579.35</td>
<td>54.3%</td>
</tr>
<tr>
<td><strong>TOTAL PUBLIC WORKS</strong></td>
<td>17,505,365</td>
<td>232,839</td>
<td>17,738,204</td>
<td>5,401,832.75</td>
<td>4,232,791.42</td>
<td>8,103,579.35</td>
<td>54.3%</td>
</tr>
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<td>17,505,365</td>
<td>232,839</td>
<td>17,738,204</td>
<td>5,401,832.75</td>
<td>4,232,791.42</td>
<td>8,103,579.35</td>
<td>54.3%</td>
</tr>
<tr>
<td><strong>TOTAL EXPENSES</strong></td>
<td>17,505,365</td>
<td>232,839</td>
<td>17,738,204</td>
<td>5,401,832.75</td>
<td>4,232,791.42</td>
<td>8,103,579.35</td>
<td>54.3%</td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td>17,505,365</td>
<td>232,839</td>
<td>17,738,204</td>
<td>5,401,832.75</td>
<td>4,232,791.42</td>
<td>8,103,579.35</td>
<td>54.3%</td>
</tr>
</tbody>
</table>

** END OF REPORT - Generated by Dilene Byrd **
October 14, 2016

Overnight Mail

Water Toxics Program Coordinator  
Bureau of Water Protection and Land Reuse  
Connecticut Department of Energy and Environmental Protection  
79 Elm Street  
Hartford, CT 06106-5127

Subject: City of Norwalk Wastewater Treatment Plant  
Stormwater Monitoring Results  
Stormwater G.P. No.: GSI001829

To Whom it May Concern:

The City of Norwalk is pleased to submit a Stormwater Monitoring Report for sampling event conducted on September 19, 2016. Please find enclosed one original Stormwater Monitoring Report Form.

Should you have any further questions or require additional information, please feel free to contact me at 203-854-3242.

Very truly yours,

Ralph K. Kolb, P.E.  
Sr. Environmental Engineer

cc: John Ahern, CH2M  
Paola Molloy, CH2M  
WPCA File
Facility Information

Permittee Name: City of Norwalk  
Site Name: Norwalk Wastewater Treatment Plant

Mailing Address: 60 South Smith Street

Contact Person: Paola Molloy  
Title: Assistant Project Manager

Business Phone: (203) 295-9185  
ext.: Email: paola.molloy@ch2m.com

Site Address: 60 South Smith Street, Norwalk, CT 06855

Receiving Water (name/basin): Norwalk River

Permit #: GSI 001829  
Primary SIC: 4952

Discharges into an Impaired Waterbody: Yes ☒ No ☐ (If yes, complete the table on page 3 of this form)

Sample Information

Sample Location: Yard Grit Separator  
Person Collecting Sample: Paola Molloy

Date/Time Collected: 9/19/2016 6:55am  
Date of Previous Storm Event: 9/15/2016

This report is for samples required: Semi-annually ☒ Annually ☐ Other ☐

Check here if the sample contains snow or ice melt: ☐

Check here if a benchmark exceedance is solely due to background or off site sources ☐ see note below

Monitoring Results

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required Frequency</th>
<th>Results (units)</th>
<th>Benchmark</th>
<th>Benchmark Exceedance (see pg 4)</th>
<th>Test Method</th>
<th>Laboratory Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil &amp; Grease</td>
<td>Semi-annual</td>
<td></td>
<td>5.0 mg/L</td>
<td>☐</td>
<td>EPA 1664B</td>
<td>ECL PH0535</td>
</tr>
<tr>
<td>Rainfall pH</td>
<td>Semi-annual</td>
<td></td>
<td></td>
<td>n/a</td>
<td>EPA 150.2</td>
<td></td>
</tr>
<tr>
<td>Sample pH</td>
<td>Semi-annual</td>
<td></td>
<td>5-9 SU</td>
<td>☐</td>
<td>EPA 150.2</td>
<td>ECL PH0535</td>
</tr>
<tr>
<td>COD</td>
<td>Semi-annual</td>
<td>116</td>
<td>75 mg/L</td>
<td>☐</td>
<td>H8000</td>
<td>ECL PH0535</td>
</tr>
<tr>
<td>TSS</td>
<td>Semi-annual</td>
<td>90 mg/L</td>
<td></td>
<td>☐</td>
<td>SM2540D</td>
<td>ECL PH0535</td>
</tr>
<tr>
<td>TP</td>
<td>Semi-annual</td>
<td></td>
<td>0.40 mg/L</td>
<td>☐</td>
<td>EPA 200.7</td>
<td>ECL PH0535</td>
</tr>
<tr>
<td>TKN</td>
<td>Semi-annual</td>
<td>5.52</td>
<td>2.30 mg/L</td>
<td>☐</td>
<td>4800NorgC</td>
<td>ECL PH0535</td>
</tr>
<tr>
<td>NO3-N</td>
<td>Semi-annual</td>
<td></td>
<td>1.10 mg/L</td>
<td>☐</td>
<td>EPA300.0</td>
<td>ECL PH0535</td>
</tr>
<tr>
<td>Total Copper</td>
<td>Semi-annual</td>
<td></td>
<td>0.059 mg/L</td>
<td>☐</td>
<td>EPA 200.8</td>
<td>ECL PH0535</td>
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<tr>
<td>Total Zinc</td>
<td>Semi-annual</td>
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<td>0.160 mg/L</td>
<td>☐</td>
<td>EPA 200.7</td>
<td>ECL PH0535</td>
</tr>
<tr>
<td>Total Lead</td>
<td>Semi-annual</td>
<td></td>
<td>0.076 mg/L</td>
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<td>EPA 200.3</td>
<td>ECL PH0535</td>
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<tr>
<td>24 Hr. LC90</td>
<td>Annual-Year 14.2</td>
<td></td>
<td>n/a</td>
<td>☐</td>
<td>EPA821R</td>
<td>ECL PH0535</td>
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<tr>
<td>48 Hr. LC90</td>
<td>Annual-Year 14.2</td>
<td></td>
<td>n/a</td>
<td>☐</td>
<td>EPA821R</td>
<td>ECL PH0535</td>
</tr>
</tbody>
</table>

Exemptions

List here any parameter(s) that will not be sampled for the remainder of the permit term: see note below

NOTE: Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.
## STORMWATER ACUTE TOXICITY TEST DATA SHEET

(required annually only during Year 1 and Year 2 of the permit)

<table>
<thead>
<tr>
<th>Effluent Dilution</th>
<th>Number of Organisms Surviving</th>
<th>Dissolved Oxygen (mg/L)</th>
<th>Temperature (°C)</th>
<th>pH (su)</th>
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</thead>
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<tr>
<td>Hour</td>
<td>00</td>
<td>24</td>
<td>48</td>
<td>00</td>
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<tr>
<td>CONTROL 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONTROL 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONTROL 3</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONTROL 4</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>6.25% A</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>6.25% B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.25% C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.25% D</td>
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<tr>
<td>12.5% A</td>
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<tr>
<td>12.5% B</td>
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<tr>
<td>12.5% C</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>12.5% D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25% A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25% B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25% C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25% D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50% A</td>
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</tr>
<tr>
<td>50% B</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50% C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50% D</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>100% A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100% B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100% C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100% D</td>
<td></td>
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<td></td>
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</table>

### REFERENCE TOXICANT RESULTS

<table>
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<tr>
<th>Test Species</th>
<th>Date</th>
<th>Reference Toxicant</th>
<th>Source</th>
<th>LC&lt;sub&gt;50&lt;/sub&gt;</th>
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<tbody>
<tr>
<td><em>Daphnia pulex</em></td>
<td></td>
<td></td>
<td></td>
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</table>

BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE
DEEP-PED-SMR-014 2 of 4 Rev. 10/17/11
Additional Monitoring for Discharges to Impaired Waters (if applicable):

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency</th>
<th>Results (units)</th>
<th>Test Method</th>
<th>Laboratory Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Statement of Certification

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute."

[Signature]  
Ralph Kolb  
Name of Permittee (print or type)

[Signature]  
Paola Molloy  
Name of Preparer (print or type)

10/14/16  
Date

10/14/16  
Date

WATER TOXICS PROGRAM COORDINATOR  
BUREAU OF WATER PROTECTION AND LAND REUSE  
CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION  
79 ELM STREET  
HARTFORD, CT 06106-5127

Please send all completed forms to:
General Permit for the Discharge of Stormwater Associated with Industrial Activity, effective 10/1/2011

Data Tracking Sheet
General and Sector G Transportation Facilities Only
Monitoring Requirements

Permittee Name: City of Norwalk
Permit #: GSI 001829
Site Name: Norwalk Wastewater Treatment Plant
Site Address: 60 South Smith Street, Norwalk CT 06855
Sample Location: Yard Grit Separator

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location into the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4.

Average = \[\frac{\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4}}{4}\]

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Sample Date</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>Average</th>
<th>Benchmark*</th>
<th>Qualify for exemption?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample Date</td>
<td>10/15/14</td>
<td>8/11/15</td>
<td>2/3/16</td>
<td>3/19/16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>O&amp;G</td>
<td>&lt;5.0</td>
<td>8.1</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>5.0 mg/L</td>
<td>Yes</td>
</tr>
<tr>
<td>Sample pH</td>
<td>7.5</td>
<td>7.2</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>5.9 S.U.</td>
<td>Yes</td>
</tr>
<tr>
<td>COD</td>
<td>37.0</td>
<td>182</td>
<td>139</td>
<td>116</td>
<td>113.5</td>
<td>75 mg/L</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>TSS</td>
<td>47.0</td>
<td>188</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>90 mg/L</td>
<td>Yes</td>
</tr>
<tr>
<td>TP</td>
<td>&lt;0.02</td>
<td>0.31</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>0.40 mg/L</td>
<td>Yes</td>
</tr>
<tr>
<td>TKN</td>
<td>&lt;0.5</td>
<td>1.1</td>
<td>3.76</td>
<td>5.52</td>
<td>2.66</td>
<td>2.30 mg/L</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>NO\textsubscript{3}-N</td>
<td>0.61</td>
<td>0.56</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>1.10 mg/L</td>
<td>Yes</td>
</tr>
<tr>
<td>Total Copper</td>
<td>0.011</td>
<td>0.027</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>0.059 mg/L</td>
<td>Yes</td>
</tr>
<tr>
<td>Total Zinc</td>
<td>0.11</td>
<td>0.22</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>0.160 mg/L</td>
<td>Yes</td>
</tr>
<tr>
<td>Total Lead</td>
<td>0.017</td>
<td>0.05</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>0.076 mg/L</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit.

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ¼ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)(B)(iii) of the General Permit for a more detailed explanation.
Report of Analysis

Name: CH2M Hill - Norwalk
   60 South Smith Street
   East Norwalk, Ct 06855
   Attn: Mr. Greg Quirk

Sample ID#: 107254
Sample Type: Wastewater
Sample Source: W.W.T.P.
Sampler: Client

Sample Date: 9/19/2016 6:55 AM
Receipt Date: 9/19/2016 11:35 AM
Report Date: 9/29/2016
Sample Site: Yard Grit Separator

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Sample Result</th>
<th>Units</th>
<th>Method</th>
<th>MDL</th>
<th>Analysis Date</th>
<th>Analyst</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Oxygen Demand</td>
<td>116</td>
<td>mg/L</td>
<td>H8000</td>
<td>2</td>
<td>9/26/2016</td>
<td>KC</td>
</tr>
<tr>
<td>TKN as N</td>
<td>5.52</td>
<td>mg/L</td>
<td>4500NorgC</td>
<td>0.5</td>
<td>9/28/2016</td>
<td>KC</td>
</tr>
</tbody>
</table>

ND = Not Detected
<table>
<thead>
<tr>
<th>Client I.D.</th>
<th>Sampling Location</th>
<th>Date</th>
<th>Time</th>
<th>Sample Type</th>
<th>Number of Containers</th>
<th>Container Type</th>
<th>Preservative</th>
</tr>
</thead>
<tbody>
<tr>
<td>1609-0396</td>
<td>Yard grit separator</td>
<td>9/19/16</td>
<td>6:55</td>
<td>X</td>
<td>Z</td>
<td>P</td>
<td>S</td>
</tr>
</tbody>
</table>

Relinquished by: [Signature]
Date/Time: 9/19/16
Received by: [Signature]
Date/Time: 9/19/16

Were Samples received within holding time? Y/N: Y
Were Samples chilled upon receipt? Y/N: Y
Were Samples in appropriate containers? Y/N: Y
If No Explain
Are containers broken/marking? Y/N: Y
Did Samples need to be split upon receipt? Y/N: Y
Were Samples preserved properly? Y/N: Y