

City of North Tonawanda

DONNA L. BRAUN
City Clerk-Treasurer
dbraun@northtonawanda.org

Lori Swartz
Assistant City Clerk

Denise Proefrock
Assistant City Treasurer

OFFICE OF THE CITY CLERK - TREASURER
VITAL STATISTICS
CITY HALL
216 PAYNE AVENUE
NORTH TONAWANDA, N.Y. 14120

Treasurer's Office: (716) 695-8575
Clerk's Office: (716) 695-8555
Fax: (716) 695-8557

COMMON COUNCIL WORKSHOP AGENDA

January 7, 2022

The following meeting has been scheduled for TUESDAY JANUARY 11, 2022:

6:30 P.M. NT Neighborhood Watch

Re: Dyngus Day Parade

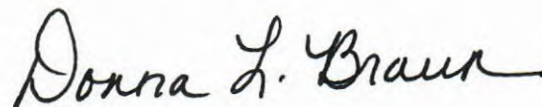
**7:00 P.M. Jason Koepsell
Supt. Water/Wastewater**

Re: Capital Projects

7:15 P.M. Common Council

Re: General Discussion

Respectfully submitted,



**Donna L. Braun
City Clerk-Treasurer**

01/05/2022

From: North Tonawanda Neighborhood Watch

To: North Tonawanda Common Council

RE: 2022 Dyngus Day Parade

Honorable Council,

We are respectfully requesting your permission to once again host a Dyngus Day celebration and parade on Monday, April 18th 2022. We feel as though the event was successfully executed in 2021, and based off of the extremely positive feedback from the community it would be a worth-while endeavor to continue the tradition.

The overall premise of the event would be the same, with a few additions and minor adjustments. We would once again like to have the parade route run north to south down Oliver Street. However, we would like the starting point to be the intersection at Buffalo Bolt Way and Oliver (using Buffalo Bolt Way as our staging area) and end the parade at the corner of Thompson and Oliver. We are also requesting the use of Heritage Park from 5:00pm-9:00pm for a post-parade party with live polka music and a beer tent. Sweeney Hose Company No. 7 will obtain the necessary permits and operate the beer tent as they have in past years for the Canal Fest.

The Dyngus Day celebration and parade not only benefits the many small businesses located on Oliver Street, but it also recognizes and draws positive attention to an area of town that has so much potential but is often ignored or overlooked. Below you will find a list of the specific items we are requesting the Council approve. We would be more than happy to attend your next workshop to answer any further questions you may have. We greatly appreciate your support and consideration.

Dyngus Day Request:

- Oliver St. (Buffalo Bolt Way – Thompson St.) closure from 3:00pm-7:00pm
- Use of Buffalo Bolt Way for parade staging area
- Use of Auxiliary Police and NTPD officers (appropriate amount to be determined by Police Chief)
- Use of Heritage Park for post-parade party

Sincerely,

NT Neighborhood Watch Executive Board

Joseph Marranca
Sherrie Marranca
Matthew Parish

RECEIVED
CITY CLERK'S OFFICE
2022 JAN 5 PM 4:15
NORTH TONAWANDA NY



CITY OF NORTH TONAWANDA WATER WORKS

830 RIVER ROAD

NORTH TONAWANDA, NEW YORK 14120

Phone: (716) 695-8560, ext. #6411

Cell: (716) 946-7560

Email: jkoepsell@northtonawanda.org

Jason W. Koepsell

Superintendent of Water/ Wastewater

January 6, 2022

Honorable Mayor Austin Tylec and Common Council
216 Payne Ave.- City Hall
North Tonawanda, NY 14120

RE: Discussion of Capital Project Requests for Water and Wastewater

Honorable Body,

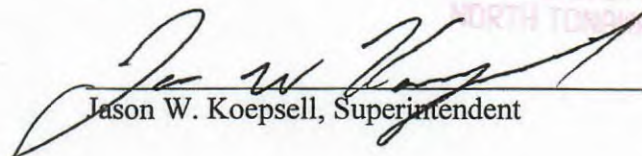
I would like to be added to the January 11, 2022 Common Council Workshop to discuss the following Capital Project requests.

- Primary wastewater sludge digester replacement and co-generator installation
- Carbon column effluent slip lining or plastic pipe replacement
- Replacing a 2008 F-250 pickup truck at water distribution.

Attached are the DEC inspection letters for the North Tonawanda Wastewater Plant highlighting the digester and piping issues.

Thank you for your consideration of my request

Sincerely,


Jason W. Koepsell, Superintendent

RECEIVED
CITY CLERK'S OFFICE

2022 JAN 6 PM 12:56
NORTH TONAWANDA NY

CITY OF NORTH TONAWANDA
Multi-year Capital Plan
INDIVIDUAL CAPITAL PROJECT REQUEST AND ESTIMATE OF COST

1. **Project Title** Primary Wastewater sludge Digester Replacement/ Co-Generator installation
 2. **Department** Wastewater
 3. **Location** Wastewater Treatment Plant
 4. **Description** In 2020, a primary digester at the wastewater treatment plant was severely damaged. This digester has been online since 1981. In October of 2021, DEC notated on their inspection that this digester be replaced rather than repaired. The current digesters have poor mixing and heating units, and are maintenance intensive. With newer technology, a new digester would be heated and mixed more efficiently, created a better quality bio gas that can be used to heat buildings, and run a co- generator creating electricity to be used internally or sold to grid. Currently, all unused gas is burned off to atmosphere.
 5. **Purpose and Justification** DEC requires our wastewater facility to have 2 working primary digesters. We have 1. A new digester will save in maintenance costs, fuel costs, and give us the ability to utilize the bio gas created from the process of digestion. Primary sludge digesters are used to reduce the amount of solids handled by a wastewater treatment facility. Better digested sludge will reduce landfill costs which are increasing. This project would be eligible for grants.

6. **Status of Plans: (check one)**

- | | | |
|---|--|--|
| <input type="checkbox"/> Plans not needed | <input type="checkbox"/> Surveys completed | <input type="checkbox"/> Sketch plans completed |
| <input checked="" type="checkbox"/> Nothing done on plans | <input type="checkbox"/> Work on plans scheduled | <input type="checkbox"/> Detail plans in preparation |
| <input type="checkbox"/> Preliminary estimate received | <input type="checkbox"/> Sketch plans in preparation | <input type="checkbox"/> Detail plans completed |

7. **Estimated Cost:**

Equipment	_____
Engineering	_____
Inspection	_____
Site Acquisition	_____
Construction	_____
Other ()	_____
*TOTAL	<u>2,300,000</u>

11. **Proposed Method of Financing:**

Bonding	_____
Appropriations (Budget)	_____
Special Assessments	_____
User Charges	_____
State and Federal Aid	_____
Grants Federal or State	_____
Other ()	_____
*TOTAL	<u>2,300,000</u>

8. **Proposed Method of Construction:**

- Contract Municipal Employees

12. **Estimated Life of Project:**

Years

9. **Estimated Project Expenditures by Years:**

2022	_____
2023	_____
2024	_____
2025	_____
2026	_____
2027	_____
*TOTAL	<u>-</u>

13. **Projected Project Construction or Acquisition Dates:**

Starting Date _____

10. **Project**

- | | |
|------------|-------------------------------------|
| Urgent | <input checked="" type="checkbox"/> |
| Necessary | <input type="checkbox"/> |
| Desirable | <input type="checkbox"/> |
| Deferrable | <input type="checkbox"/> |

Submitted by _____ Date _____

* Totals under Section 7, 9 and 11 must agree

CITY OF NORTH TONAWANDA
Multi-year Capital Plan
INDIVIDUAL CAPITAL PROJECT REQUEST AND ESTIMATE OF COST

1. **Project Title** Carbon Column Effluent Slip Lining Pipes or Plastic Replacement
 2. **Department** Wastewater Treatment
 3. **Location** Carbon Building in Wastewater Treatment Plant
 4. **Description** Due to corrosive wastewater conditions the carbon coulmn effluent pipes are rotting from the inside at the top of the pipe. These pipes are 30" in diameter and are suspended 25'. During heavy rain events the pipes leak treated sewage water to be spilled in the building. These pipes will need to be slip lined to create a new pipe on the inside of the existing steel pipe or replaced with plastic. Both options are preferred to steel, to prevent internal corrosion from Hydrogen Sulfide. Additionally, an assesment of the pipes in the carbon building will determine a plan for repair/ replacement of additional piping in the carbon building
 5. **Purpose and Justification** The carbon column effluent pipes carry treated water from our carbon filters to our chlorine contact tank for disinfection. This process can not be bypassed as it is required under our SPDES permit. In October of 2021, DEC noted on their annual inspection, the poor condition of the pipes. They need an assesment of the pipes in the carbon building, and a schedule of repair/ replacement. They have also approved the use of slip lining or replacemnt with plastic pipe.

6. **Status of Plans: (check one)**

- | | | |
|---|--|--|
| <input type="checkbox"/> Plans not needed | <input type="checkbox"/> Surveys completed | <input type="checkbox"/> Sketch plans completed |
| <input type="checkbox"/> Nothing done on plans | <input type="checkbox"/> Work on plans scheduled | <input type="checkbox"/> Detail plans in preparation |
| <input checked="" type="checkbox"/> Preliminary estimate received | <input type="checkbox"/> Sketch plans in preparation | <input type="checkbox"/> Detail plans completed |

7. **Estimated Cost:**

Equipment	_____
Engineering	_____
Inspection	25,000
Site Acquisition	_____
Construction	_____
Other ()	_____
*TOTAL	<u>500,000</u>

11. **Proposed Method of Financing:**

Bonding	500,000
Appropriations (Budget)	_____
Special Assessments	_____
User Charges	_____
State and Federal Aid	_____
Grants Federal or State	_____
Other ()	_____
*TOTAL	<u>500,000</u>

8. **Proposed Method of Construction:**

- Contract Municipal Employees

12. **Estimated Life of Project:**

Years

9. **Estimated Project Expenditures by Years:**

2022	_____
2023	_____
2024	_____
2025	_____
2026	_____
2027	_____
*TOTAL	<u>-</u>

13. **Projected Project Construction or Acquisition Dates:**

Starting Date Summer 2022

10. **Project**

- Urgent
 Necessary
 Desirable
 Deferrable

Submitted by _____ Date _____

* Totals under Section 7, 9 and 11 must agree

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Region 9
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7070 | F: (716) 851-7009
www.dec.ny.gov

December 17, 2020

Mayor Arthur Pappas
City of North Tonawanda
216 Payne Avenue
North Tonawanda, New York 14120

Dear Mayor Pappas:

**Annual Compliance Inspection
City of North Tonawanda WWTP
SPDES No. NY0026280**

On October 30, 2020, I met with Mr. Bill Davignon and staff to conduct an annual compliance inspection of the City of North Tonawanda Wastewater Treatment Plant. The purpose of the inspection was to evaluate the facility for compliance with the requirements of its State Pollutant Discharge Elimination System (SPDES) permit. The inspection included a visual evaluation of the wastewater treatment system and a review of the operation, maintenance, and sampling procedures and records.

Alum sludge from the City's Water Treatment Plant has affected operations at the WWTP. The alum sludge is a residual of the water treatment process and is disposed by periodic flushing to the combined sewer system for conveyance to the WWTP. In 2019, alum sludge caused operational problems at the WWTP that led to noncompliance with permit limits for settleable solids. In response, the WWTP staff developed and implemented improved procedures in 2020 for dealing with alum sludge. To date, the new procedures have been successful and there has been no further noncompliance. In addition to the alum sludge at the Water Treatment Plant there is an accumulation of alum sludge in the water distribution piping. City personnel plan to resume flushing these pipelines next summer. The City should continue to monitor these operations closely and report any issues to this office.

There are several capital improvement projects in progress at the WWTP to replace and upgrade critical equipment and processes, including grit removal, ferric chloride system, carbon system high-head and low-head pumps, and chlorination. The new facilities will improve performance and help to maintain compliance.

Other findings from the inspection are summarized below. Generally, these items indicate a need for additional preventative maintenance at the plant.

1. Primary Digester – One of the two primary digesters has been out of service since May 2020. The extent of the necessary repairs is currently unknown, but reportedly the unit will be cleaned and evaluated in December 2020. Once the condition is determined, the repairs should be scheduled as soon as possible. This is a critical process unit.

Not done
or
scheduled



Department of
Environmental
Conservation

If the one remaining in-service primary digester were to fail, it would create serious and costly difficulties for plant operation.

2. Main Influent Pumps – Repair/replacement of pumps is necessary to restore pumping capacity to match the capacity of the treatment processes. Total pumping capacity should be 20 mgd or more but is currently only about 17.5 mgd. The 4 mgd and 12 mgd pumps are currently out of service (damaged impeller and broken shaft) and the 6 mgd pump is worn and not able to pump at its rated capacity. These pumps should be replaced or repaired to full capacity as soon as possible.

Not Scheduled

Fixed

3. Piping – The condition of the large diameter steel piping in the Carbon Building needs to be assessed as soon as possible using standard pipeline technologies (such as magnetic flux leakage or ultrasonic testing). The piping is original (approximately 40 years old) and the number of failures due to corrosion has been increasing in recent years. During the inspection one of the sand filter backwash pipes was observed to be leaking from the top of pipe. Reportedly, the corrosion and leaks are typically worse at the top of the pipe and leaks may not become apparent until the pipe is full.

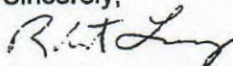
Fixed

4. Valves – The valves associated with the activated carbon treatment process including effluent valves, drain valves, and backwash valves require preventive maintenance. Recently several valves failed and had to be repaired/replaced by an outside contractor. All the other valves for the six carbon columns (total of 48 valves) should be presumed to be in similar condition. Appropriate preventative maintenance is generally less costly and less disruptive to the treatment process than repair/replacement.

5. Wet Weather Screens – The center channel screen has been out of service for about a year. It is the only one of the three wet weather screens that has grit removal buckets. As a result of the failure, there has been an excessive accumulation of grit in the wet weather treatment processes. The screen should be repaired as soon as possible to prevent further disruption to treatment operations.

Based on the results of the inspection, the City of North Tonawanda Wastewater Treatment Plant is in substantial compliance with SPDES permit requirements. Addressing each of the numbered items above and generally improving preventative maintenance will help to maintain compliance. If you have any questions about the inspection please contact me at 851-7070 or at robert.locey@dec.ny.gov.

Sincerely,



Robert Locey, P.E.
Professional Engineer 1

RLL/tl

cc: Jeff Konsella, Regional Water Engineer
Bill Davignon, Superintendent

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Region 9
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7070 | F: (716) 851-7009
www.dec.ny.gov

December 8, 2021

Mayor Arthur Pappas
City of North Tonawanda
216 Payne Avenue
North Tonawanda, New York 14120

Dear Mayor Pappas:

**Compliance Inspection
City of North Tonawanda WWTP
SPDES No. NY0026280**

On October 21, 2021, I met with Mr. Jason Koepsell and staff to conduct a compliance inspection of the City of North Tonawanda Wastewater Treatment Plant. The purpose of the inspection was to evaluate the facility for compliance with the requirements of its State Pollutant Discharge Elimination System (SPDES) permit. The inspection included a visual evaluation of the wastewater treatment system and a review of the operation, maintenance, and sampling procedures and records.

A review of Discharge Monitoring Reports for the twelve-month period prior to the inspection indicates one violation of the SPDES permit limit for BOD5 Percent Removal in July 2021. The minimum removal specified in the permit is 65% and the reported value for July 2021 was 61.77%. The low result was attributed by the WWTP staff to dilute influent from the combined sewer system caused by unusually wet weather.

The WWTP Phase 1 Capital Improvements project is currently underway. Several problems with the new processes/equipment are summarized below.

1. **Grit System**—A new PISTA Grit system (trademark of Smith & Loveless, Inc.) has been installed. The new installation includes modifications of the inlet channel of one of the three existing grit channels to divert the flow to the new PISTA system. The other two existing grit channels remain as is for a backup to the new system. Nominally, the new system was designed for 20 mgd, but in operation it has not been able to achieve that flow. As of the date of the inspection, the new system had also performed poorly in removing grit. The WWTP operators plan to do additional tests at a controlled flow rate and compare the new system to the old. If the new system fails those tests, the old grit channels will be returned to full-time service until the problems with the new system are resolved.
2. **High-head and Low-head Pumps**— These pumps are used to lift wastewater to the carbon columns and sand filters respectively. So far, three of the four high-head pumps and two of the four low-head pumps have been replaced. Reportedly all these replacement pumps are experiencing vibration problems that will eventually lead to premature failure. If the vibration problems cannot be resolved, the pumps will need to be replaced.

Pump failure could happen suddenly, therefore the City must be prepared with a contingency plan to keep the WWTP operating in case of failure of the high-head or low-head pumps. At a minimum, the City should make arrangements to have spare pumps (e.g. rentals) delivered and installed on short notice in the event of a pump failure.

3. Primary Sludge Pumps – The new centrifugal type pumps reportedly do not work well with sludge that has been treated with a sludge thickener (polymer). With polymer added, the pumps cannot achieve the low flow rates necessary for proper digester operation. Reportedly a lobe type positive displacement pump has been identified as a suitable replacement which has been ordered and will be available for installation by the end of 2021.
4. Chlorination System – A new vacuum chlorination system was installed to replace the original pressurized system. The most serious problem with the new system is that the pressure regulators (one for each connected chlorine cylinder) sometimes leak. As of the date of the inspection, representatives of the equipment manufacturer have been unable to identify the cause of the problem. Leaks involving chlorine gas are a serious health and safety concern, therefore it is imperative the City and the equipment supplier rectify the situation as soon as possible. Also, the WWTP operators report that the pressure regulators cannot achieve the required feed rate of 3200 lb./d, so replacing the problematic pressure regulators may be necessary. Other reported issues with the new chlorine system which either have been corrected or will be corrected shortly include: piping location (potential for damage when changing chlorine cylinders), vent location (too close to the emergency stop), cylinder supports (size and location), and ventilation (not automatic).

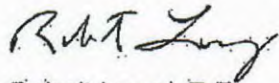
Other issues

- Primary digester - One of the two primary digesters has been out of service since May 2020 due to broken mixing equipment in the tank. If the one remaining in-service primary digester were to fail, it would create serious and costly operational difficulties for the WWTP. This office recommends replacing rather than repairing the broken digester. The existing equipment installed in the late 1970s is outdated and would require costly repairs by specialist contractors. Newer digester designs are more reliable, more efficient, and require less maintenance which can often be performed by in-house staff. The length of time the digester has been out of service is unacceptable. The City must begin planning the replacement or repair of the primary digester as soon as possible.
- Flow Monitoring – The WWTP is required to measure flow through the plant. Until recently, flow was measured using the proportional weirs located at the end of the grit chambers. However, with the installation of a new grit system, the proportional weirs will no longer serve that purpose. Therefore, a new flow monitoring system was installed at the chlorine contact tanks using the existing overflow weir and new level sensors. Unfortunately, it appears the contact tank location may not be suitable because of significant oscillations in the water level. The cause of the oscillations has not yet been determined. The WWTP must either resolve the problems with the current flow monitoring system or design and install a new system to accurately measure flow as required.

- Chlorine Analyzer - The Department approves the WWTP proposal to use a portable colorimeter (Hach model DR300) to measure residual chlorine at the retention basin overflow. The WWTP plans to remove the existing chlorine analyzer (Hach Cl17) and use it elsewhere in the plant for process control monitoring.
- Influent Pumps - The four main influent pumps are rated at 4, 6, 8, and 12 mgd. The 4 mgd pump is due for replacement and the WWTP operators want to replace it with a 6 mgd pump to improve operational flexibility. That substitution of a 6 mgd pump replacement for a 4 mgd pump is acceptable to the Department.
- Steel Piping - The large diameter steel piping in the carbon building has experienced several leaks due to corrosion. The City should plan to have the large diameter piping tested during the next year so that potential failure points can be identified, and repairs/replacement can be planned accordingly. Replacement with plastic pipe is acceptable provided all structural requirements are met.

Based on the results of the inspection, the City of North Tonawanda WWTP is in substantial compliance with SPDES permit requirements. If you have any questions about the inspection, please contact me at 851-7070 or at robert.locey@dec.ny.gov.

Sincerely,



Robert Locey, P.E.
Professional Engineer 1

RLL/tl

cc: Melanie Stein, NYSDEC
Jason Koepsell Wastewater Superintendent

CITY OF NORTH TONAWANDA
Multi-year Capital Plan
INDIVIDUAL CAPITAL PROJECT REQUEST AND ESTIMATE OF COST

1. **Project Title** Distribution F 250
 2. **Department** Water Distribution
 3. **Location** _____
 4. **Description** Water Distribution has a F-250 2008 pickup truck is a safety hazard and must not be driven on the road again. If it is driven CSEA will be contacting PESH. This truck is in terrible shape and will not pass inspection. The truck has ratchet straps holding the bed on. All four bed mounts came through the floor of the bed. The floor rotted through on the front passenger side. The transmission is slipping, and transmission fluid cannot be filled as the fill tube rotted off. Also, the transmission cooler lines rotted through and there is an exhaust system leak.
 5. **Purpose and Justification** Without a 3rd truck, distribution will have to use two crews for repairs and maintenance or put one crew in heavy equipment. This will put unnecessary wear on heavy equipment that should not be used for maintenance jobs.

6. **Status of Plans: (check one)**

- Plans not needed Surveys completed Sketch plans completed
 Nothing done on plans Work on plans scheduled Detail plans in preparation
 Preliminary estimate received Sketch plans in preparation Detail plans completed

7. **Estimated Cost:**

Equipment _____
 Engineering _____
 Inspection _____
 Site Acquisition _____
 Construction _____
 Other () _____
***TOTAL** 50,000

11. **Proposed Method of Financing:**

Bonding _____
 Appropriations (Budget) _____
 Special Assessments _____
 User Charges _____
 State and Federal Aid _____
 Grants Federal or State _____
 Other () _____
***TOTAL** 50,000

8. **Proposed Method of Construction:**

- Contract Municipal Employees

12. **Estimated Life of Project:**

Years

9. **Estimated Project Expenditures by Years:**

2022 _____
 2023 _____
 2024 _____
 2025 _____
 2026 _____
 2027 _____
***TOTAL** -

13. **Projected Project Construction or Acquisition Dates:**

Starting Date Spring 2022

10. **Project**

- Urgent
 Necessary
 Desirable
 Deferrable

Submitted by _____ Date _____

* Totals under Section 7, 9 and 11 must agree