



THE CITY OF NASHUA

Division of Public Works

Administration

"The Gate City"

Board of Public Works Meeting of July 26, 2016

Agenda

A meeting of the Board of Public Works is scheduled for Tuesday, July 26, 2016 at 5:30 p.m. in Room 208 at City Hall, 229 Main Street, Nashua, NH 03060.

- I. Motion:** To approve the Agenda as presented.
- II. Motion:** To approve the Minutes of the Board of Public Works Meeting of June 23, 2016.
- III. Public Comment**
- IV. Aldermanic Referrals**
 - A.** R-16-047 AUTHORIZING THE MAYOR AND CITY TREASURER TO ISSUE BONDS NOT TO EXCEED THE AMOUNT OF ONE MILLION DOLLARS (\$1,000,000) FOR VARIOUS IMPROVEMENTS AT THE SOLID WASTE DEPARTMENT FOUR HILLS LANDFILL
 - B.** R-16-048 APPROVING A LOCATION OFF STADIUM DRIVE AS THE REPLACEMENT SITE FOR THE DAVID W. DEANE SKATEBOARD PARK CURRENTLY LOCATED ON BRIDGE STREET
- V. Street Department:**
 - A. Motion:** To abolish one welder position and create an additional Mechanic I, 1st class position at the Street Department. Starting salary for this position is \$26.78 per hour for a yearly salary of \$55,702.40. Funding would be through: Department: 161 Street Department; Fund: General; Account Classification: 51-Salaries & Wages.
- VI. Engineering Department**
 - A. Motion:** To approve the Residential and Commercial Wastewater Service Permits and Fees as submitted.
 - B. Motion:** To approve Drainlayer's License for Gordon T. Burke & Sons, Inc., PO Box 497, North Conway, NH 03860, in accordance with Nashua City Code §255-19 Issuance of Drainlayer's License.
 - C. Motion:** To recommend and approve the selection of the color temperature (3000K or 4000k) for the light fixtures for use citywide in the LED Street Light Conversion Project.
 - D. Motion:** To approve the use of the DW Hwy/Spitbrook Road Transportation Improvement funds for a contract with Electric Light Company from Cape Neddick Maine to install new vehicle detection (mostly video detection).

Funding through the DW Hwy/Spitbrook Road Transportation Improvement funds: Department: 160 Admin & Engineering; Fund: Trust; Activity: 55 Other Services in the amount of \$51,300 and through Department 161 Street; Fund: Special Revenue; Activity: Paving of \$18,400, for a total contract award of \$69,700.

E. Informational: 2016 Paving Program Update

F. Motion: To approve the vendor contract for the purchase of lights and poles for the Nashua Heritage Rail Trail to Consolidated Electrical Distributors Inc. of Manchester, NH for the amount of \$87,288.00. Funding will be through Department 177 Parks & Recreation; Fund: CIP; Activity: Rail Trail Lighting.

VII. Wastewater Department

A. Motion: To approve the User Warrants as presented.

B. Motion: To approve the selection of Ms. Krysten G. Gosztyla of Londonderry, NH to the position of Analytical Chemist at the Wastewater Treatment Plant. Starting salary for this position will be \$43,506 per year. Funding will be through: Department: 169 Wastewater; Fund: Wastewater; Account Classification: 51 Salaries & Wages.

C. Motion: To approve the contract to Woodard & Curran for professional services for a preliminary study and report on needed upgrades to the NWF potable water booster station in the amount of \$17,500. Funding will be through: Department: 169 Wastewater; Fund: Wastewater; Account Classification: 53 Professional and Technical Services.

D. Motion: To approve the design phase services for the Air Handler Upgrades project to Wright Pierce of Topsham, ME in the amount not to exceed \$67,093. Funding will be through: Department: 169 Wastewater; Activity: Control Building HVAC Upgrades.

VIII. Parks & Recreation

A. Motion: To approve the purchase of a 2016 Toro Groundmaster 3505-D mower from Turf Products Corporation of Enfield, CT for the price of \$27,626.76 pursuant to the Massachusetts State Contract #FAC71. Funding will be through Department: 177 Parks and Recreation; Fund: Trust; Activity: CERF.

B. Motion: To approve the purchase of roadside and trail mowing services from the low bidder Kohl Farms of Chelmsford, MA for an amount not to exceed \$26,000. Funding for this purchase will be from Department: 177 Parks and Recreation; Funds: General and Trust; Account Category: 53 Professional Services \$22,000, Department: 169 Wastewater; Fund: Wastewater; Account Category: 55 Other Purchased Services \$4,000.

C. Motion: To approve the purchase of Integration Carousel for the Legacy Playground at Labine Park from the sole source vendor Goric Marketing Group USA of Belmont, MA in the amount of \$50,715. Funding will be \$50,715 through Department: 177 Parks and Recreation; Fund: General; Activity: Labine Park.

IX. Solid Waste

A. Motion: To approve the purchase of engineering services at the City's landfills by Sanborn Head and Associates of Concord, NH for FY17 not to exceed \$80,000. Funding will be through: Department: 168 Solid Waste; Fund: Solid Waste; Account Classification: 53 Professional and Technical Services.

X. Non-Public Session

A. Motion: To enter into a nonpublic session under RSA 91-A:3, II (c) for consideration of matters which, if discussed in public, would likely affect adversely the reputation of any person, other than a member of the body or agency itself, unless such person requests an open meeting.

XI. Administration

A. Motion: To approve the relocation of the Collection System Operators positions and the Collection System Technicians to the Wastewater Department. Funding through Department: 169 Wastewater; Fund: Wastewater; Account Classification: 51 Salaries and Wages.

B. Motion: To approve the elimination of a Street Foreman Position at the Street Department, create a Wastewater Foreman position at the Wastewater Department, and assign Jason Hayden of Gilford, NH to the position of Wastewater Foreman, Wastewater Department. Starting salary for this position will be \$30.24 per hour for a yearly salary of \$62,908. Funding will be through: Department: 169 Wastewater Department; Fund: Wastewater; Account Classification: 51-Salaries & Wages.

C. Motion: To approve the relocation of the sculpture that was in front of Elm Street School to the City property adjacent to the entrance to the Four Hills Landfill.

D. Informational: Update on Burke Street Building

E. Informational: Director's Report

XI. Commissioner's Comments

**Board of Public Works
Meeting Minutes**

June 23, 2016

A regular meeting of the Board of Public Works was held on Thursday, June 23, 2016, at 5:30 p.m. at City Hall, in the Auditorium, 3rd floor, 229 Main Street, Nashua, NH 03060.

Commissioner Bergeron called the meeting to order at 5:30 p.m. and called the roll.

Members Present:

Commissioner Bergeron, Vice Chair
Commissioner Tracy Pappas
Commissioner Joel Ackerman (Arrived after roll call)
Commissioner Kevin S. Moriarty

Members not Present:

Mayor Jim Donchess

Also Present:

Ms. Lisa Fauteux, Director of Public Works
Mr. Steve Dookran, City Engineer
Mr. Dave Simmons, Superintendent of Wastewater
Mr. Jon Ibarra, Superintendent of Streets
Alderman Ken Siegel, Aldermanic Liaison
Alderman-at-Large David W. Deane

MOTION: Commissioner Pappas to approve the amended Agenda as presented.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

MOTION: Commissioner Pappas to approve the Minutes of the Board of Public Works Meeting of May 26, 2016.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

MOTION: Commissioner Pappas to approve the Minutes of the Special Board of Public Works Meeting of June 7, 2016.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

Public Comment:

Ms. Paula Johnson, Westborn Drive

I have a few issues that I have already talked to Director Fauteux and Nick Caggiano about but I think it needs to come before the Board right now. My first issue is West Hollis Street. When the former Mayor redid the traffic pattern she failed to realize what was happening when we got to Wellesley Street and Ledgewood Hills. The left turn lane continues to show left turn straight left turn and then when it gets straight and then when it gets to Ledgewood Hills there's no place for anybody to go. People are cutting over going down the center of the lane which is a double yellow line. The city has known about this for a year. Somebody is going to get killed there eventually. Enough is enough, it's an easy fix and it doesn't take a rocket scientist to figure this out. You can make that a designated left turn lane all the way down to Ledgewood Hills and just make a solid

white line there. People who ride that road all of the time, they don't care, they just pushing people and going around the other side on the eastbound traffic on the west side. From what I have heard if you speak to people at the charter school, they see what goes on all day long. I've been squawking about this since the former Mayor re-designated that left turn lane to make a left turn or straight. That's where it gets confusing because it keeps saying to go straight and Commissioner Ackerman lives in that same neighborhood. It's a dangerous situation over there that needs to be corrected.

The second issue I want to talk about is Mine Falls. It seems like maybe we need to become like Merrimack and shut down our city parks to people who aren't citizens of the city. We have a leash law and I was walking my dog yesterday and he was on a leash and there was a sign that says leashed dogs only. I believe we have a city ordinance that probably needs to be posted and if there's a fine it should be posted with it at every entrance and exit because as soon as people come in the dogs are off leash. I don't know if their dog is friendly, nobody knows but the dogs are running around and messing all over the place. Nobody is picking up after the dogs. They take the bags and throw it in the woods or hang it on a tree, I mean this is disgusting. Maybe we should put up some signs at the entrances to the park and put out some cheap barrels and have it say please deposit your dog poop here. I guess the Conservation Commission built that nice bridge for the bikes. When you are walking in Mine Falls you have to keep looking over your shoulder because the bikers are going to run you over, they don't have any respect. That park should be shared with everybody. It is a beautiful nature walk in Mine Falls but it becomes ugly when people take their dogs off the leash and let them run or when people don't clean up after their dogs and I believe there is a \$25.00 fine. Maybe we need to start posting these fines. I mean to call the police, they have better things to do than to come over for a dog messing but it's not a safe environment and the bicycles in there need to be under control. We, the taxpayers are paying to clean up this mess and the city. If you are going to have a dog then be responsible for the dogs and clean them up and keep them on the leash the way the law reads because it's unfair to everybody else who wants to enjoy the beauty of Mine Falls. Thank you.

Commissioner Pappas

I would like to comment that I don't go to Ledgewood very much anymore but I think it could be better marked because I think that people who use it all of the time drive quickly and aggressively and if you don't use it that often and you don't get over in that left hand lane quick enough it can get a little sticky. I fully agree about dogs not being leashed at the park. I think people are not very nice about that.

Street Department

- A. **MOTION:** Commissioner Pappas to approve the selection of Ryan Pellissier of Allenstown, NH for the position of Wastewater Collections Systems Operator, Street Department. Starting salary for this position will be \$24.01 per hour for a yearly salary of \$49,940.80 Funding will be through: Department: 169 Wastewater; Fund: Wastewater; Account Classification: 51-Salaries & Wages.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

Engineering Department

- A. **MOTION:** Commissioner Pappas to approve the Residential and Commercial Wastewater Service Permits and Fees as submitted.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

- B. **MOTION:** Commissioner Pappas to approve Drainlayer's License for Kennedy's Trucking & Excavation, LLC, 20 Pine Rd, Hudson, NH 03051, in accordance with Nashua City Code §255-19 Issuance of Drainlayer's License.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

- C. **MOTION:** Commissioner Pappas to approve Drainlayer's License for David W. White & Son, Inc., 635 River Road, Bow, NH 03304, in accordance with Nashua City Code §255-19 Issuance of Drainlayer's License.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

- D. **MOTION:** Commissioner Pappas to approve the construction contract for the Main Street Sidewalk Improvements project on Block 3 and 4 to Morin's Landscaping, Inc. of Hollis, NH, in an amount of \$17,765. Funding will be through: Department: 161 Street; Fund: General; Activity Description: Main Street.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

- E. **MOTION:** Commissioner Pappas to approve the construction contract for the Main Street Sidewalk Improvements project Blocks 3 and 4 to Granite State Curbing Setters, Inc. of Suncook, NH, in an amount of \$16,120. Funding will be through: Department: 161 Street; Fund: General; Activity Description: Main Street.

SECONDED: Commissioner Moriarty

DISCUSSION:

Commissioner Ackerman

Just a quick question, how is that different from the earlier motion that we just passed?

Director Fauteux

They are not one in the same. These are both for the mid-block crosswalks; we have two more to do. One is for the curbing; the granite that's going in the ground and one is for the brick.

Commissioner Bergeron

In addition to this what else is left on the Main Street Sidewalk Project? Does this wrap it up completely at this point?

Director Fauteux

Not quite, we do have a small section in front of Dunkin Donuts to do and then there is also near the church and Rich Lannon's building there is also a sidewalk that goes out back to the Spring Street lot that also needs to be done and then after that it will be complete.

MOTION CARRIED: Unanimously

- F. **MOTION:** Commissioner Pappas to approve the construction contract for the Concord Street Crosswalk Improvements projects to Arlington Paving Co of Keene, NH, in an amount of \$34,657.50. Funding will be through: Department 161 Streets; Fund: Prior Year Escrow; Account Category; 81 Capital Improvements.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

G. **MOTION:** Commissioner Pappas to approve the contract for Sewer and Drain Pipe and Structure Inspection to Ted Berry Company, Inc. of Livermore, ME, in the amount of \$113,423. Funding will be through: Department 169 Wastewater; Fund: Wastewater; Activity: Sewer Rehab.

SECONDED: Commissioner Moriarty

DISCUSSION:

Commissioner Ackerman

I did look over the submissions of this particular bid and I was just curious if there was any commentary from the City Engineer as to why there was such a huge discrepancy from the top bidder which was a factor of 4X compared to the lowest bidder.

Mr. Steve Dookran, City Engineer

The low bidder and Eastern Pipe, the second bidder, were very close. Heitkamp, Inc. was the high bidder and we think they didn't fully understand what the job entailed for us and rather than asking more questions they put in a big number and it was so high we wouldn't even consider it.

Commissioner Ackerman

Okay, so they were completely out of whack in terms of the scope of the project?

Mr. Dookran

That's correct.

MOTION CARRIED: Unanimously

H. **MOTION:** Commissioner Pappas to approve the selection of Thomas Lacroix of Salem, NH, for the position of Staff Engineer in the City Engineering Department. Starting salary is \$51,227.17/year. Funding will be through Department 169 Wastewater; Fund: Wastewater; Account Category: 51 Salary and Wages.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

I. **MOTION:** Commissioner Pappas to approve the use of DW Hwy/Spitbrook Road Transportation Improvement funds in the amount of \$8,970, for a Professional Engineering contract award to Greenman-Pedersen, Inc. to design a new mast arm, mast arm pole and foundation at the northeast corner of DW Highway at Graham Drive. Funding will be through: Department: 160 Admin & Engineering; Fund: Trust; Activity: 55 Other Services.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

J. **MOTION:** Commissioner Pappas to approve Amendment No. 1 with Stantec Consulting Services, Inc. of Burlington, MA in the amount of \$12,000. Funding will be through: Department: 161 Streets; Funding Prior Year Escrow Account Category 53- Professional Services.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

Wastewater Department

- A. **MOTION:** Commissioner Pappas to approve the User Warrants as presented.
SECONDED: Commissioner Moriarty
MOTION CARRIED: Unanimously
- B. **MOTION:** Commissioner Pappas to approve the contract with Borden & Remington Corp of Fall River, MA, for the purchase of the chemical Ferric Chloride in the amount of \$20,000. Funding will be through: Department: 169 Wastewater; Fund: Wastewater; Account Classification: 61 Supplies & Materials.
SECONDED: Commissioner Moriarty
MOTION CARRIED: Unanimously
- C. **MOTION:** Commissioner Pappas to approve the contract with Borden & Remington Corp of Fall River, MA, for the purchase of the chemical Sodium Hypochlorite (Chlorine) in the amount of \$141,000. Funding will be through: Department: 169 Wastewater; Fund: Wastewater; Account Classification: 61 Supplies & Materials.
SECONDED: Commissioner Moriarty
MOTION CARRIED: Unanimously
- D. **MOTION:** Commissioner Pappas to approve the contract with PVS Chemical Solutions of Detroit, MI, for the purchase of the chemical Sodium Bisulfite in the amount of \$90,000. Funding will be through: Department: 169 Wastewater; Fund: Wastewater; Account Classification: 61 Supplies & Materials.
SECONDED: Commissioner Moriarty
MOTION CARRIED: Unanimously
- E. **MOTION:** Commissioner Pappas to approve the contracts with Polydyne of Riceboro, GA, and BASF Corp of Florham Park, NJ, for the purchase of polymer in the amounts of \$250,000 and \$70,000 respectively. Funding will be through Department: 169 Wastewater; Fund: Wastewater; Account Classification: 61 Supplies & Materials.
SECONDED: Commissioner Moriarty
MOTION CARRIED: Unanimously
- F. **MOTION:** Commissioner Pappas to approve the contract with Highland Power of Brockton, MA, for the Waukesha generator maintenance in the amount of \$30,000. Funding will be through: Department: 169 Wastewater; Fund: Wastewater; Account Classification: 54 Property Services.
SECONDED: Commissioner Moriarty

DISCUSSION:

Commissioner Ackerman

I see that the amount was \$30,000; is this an annualized 52 weeks contract and are there any other dollar amounts involved because 52 weeks times \$499.00 per week plus the other amount that is listed in the quote doesn't quite add up to \$30,000. On page 2 of the pricing it says \$499.00 per week and oil analysis and then add in \$65.00 per month. If I am not mistaken that adds up to slightly over \$27,000 so why would we approve it for \$30,000? I didn't know if there was a hidden cost involved with that.

Mr. Dave Simmons, Superintendent of Wastewater

There may be travel involved with that.

Commissioner Ackerman

Okay because I do see the other comment that says something about standard terms and conditions but they weren't listed in this documentation.

Mr. Simmons

I believe that's what it is. In the future I will have that information.

MOTION CARRIED: Unanimously

G. **MOTION:** Commissioner Pappas to approve the contract with Chemserve Environmental Analysts of Milford, NH for analytical testing services in amount of \$15,000. Funding will be through: Department: 169 Wastewater; Fund: Wastewater; Account Classification: 53 Professional & Technical Services.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

H. **MOTION:** Commissioner Pappas to approve a contract with Hazen & Sawyer for professional services for an update to the plant capacity analysis in an amount of \$19,898. Funding will be through Department: 169 - Wastewater; Fund: Wastewater; Account Classification: 53 Professional & Technical Services.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

I. **MOTION:** Commissioner Pappas to approve the selection of Mr. Scott R. Law of Nashua, NH, to the position of Operator II, 3rd shift, at the Wastewater Treatment Plant. Starting salary for this position will be \$26.10 per hour. Funding will be through: Department: 169 Wastewater; Fund: Wastewater; Account Classification: 51 Salaries & Wages.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

J. **MOTION:** Commissioner Pappas to approve the selection of Mr. Joseph Anderson of Merrimack, NH, to the position of Mechanic WWTP 1st Class at the Wastewater Treatment Plant. Starting salary for this position will be \$26.44 per hour. Funding will be through: Department: 169 Wastewater; Fund: Wastewater; Account Classification: 51 Salaries & Wages.

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

K. **MOTION:** Commissioner Pappas to accept the resignation from Mr. David Milnes, Mechanic WWTP 1st Class effective June 3, 2016.

SECONDED: Commissioner Moriarty

DISCUSSION:

Commissioner Moriarty

What happened here? Did he just decide to retire, it seems like it was a surprise situation?

Director Fauteux

If you want to discuss that we can go into non-public.

MOTION CARRIED: Unanimously

Administration

A. **MOTION:** Commissioner Pappas to approve the Mayor's FY17 budget for the Division of Public Works as submitted to the Board of Aldermen.
SECONDED: Commissioner Moriarty
MOTION CARRIED: Unanimously

B. **MOTION:** Commissioner Pappas to approve the hiring of Jonathan Ibarra of Milford, NH to the position of Superintendent of Streets. Starting annual salary for this position will be \$94,842. Funding will be through: Department: 161 Street; Fund: Street; Account Classification: 51-Salaries & Wages.
SECONDED: Commissioner Moriarty
MOTION CARRIED: Unanimously

C. **Informational:** Broad Street Parkway River Bridge Lighting
MOTION: Commissioner Pappas to accept and place on file the Broad Street Parkway River Bridge Lighting
SECONDED: Commissioner Moriarty

DISCUSSION:

Commissioner Ackerman

What is the information that we are accepting and placing on file?

Director Fauteux

It's the installation of lights on the bridge.

MOTION CARRIED: Unanimously

D. **Informational:** Budget Transfers
MOTION: Commissioner Pappas to accept and place on file the Budget Transfers
SECONDED: Commissioner Moriarty
MOTION CARRIED: Unanimously

E. **Informational:** Update on Burke Street Building
MOTION: Commissioner Pappas to accept and place on file the information regarding the Update on the Burke Street Building
SECONDED: Commissioner Moriarty

DISCUSSION:

Director Fauteux

I don't have much more to update you on. We are still working on the cost with the architect and hopefully we will have something next time to present to you in terms of what we think the estimated cost will be for the project. We are still working on that.

MOTION CARRIED: Unanimously

F. **Informational:** Director's Report

MOTION: Commissioner Pappas to accept and place on file the Director's Report

SECONDED: Commissioner Moriarty

MOTION CARRIED: Unanimously

Director Fauteux

One thing that I do want to mention is that we are working on the organizational charts. We finally got them from Human Resources and we are updating them ourselves so it's taking a little bit of time because they are old and they haven't been updated in a while. I think we will have them for you by next week and we will e-mail them to you.

As I mentioned earlier we are working on the last two mid-block crosswalks, one at the intersection of High Street and the other near Eldridge.

This is a new sidewalk on 35 Gilson Road. The Silver Knights opening game was on June 3rd and Mayor Donchess threw out the first pitch. This is a slide of the NHI Double A high school playoff on June 8th at Holman Stadium. The Mine Falls Advisory members were helping out cleaning debris out of the canal on June 18th for Mine Falls Trail Day. This is volunteers from the high schools helping to curb trail erosion. The Main Street fountain is in and there are two rocks that are both from Nashua. We planted some trees on Amherst Street and Broad Street. These were trees that were given to us from Eversource, they are crab apples. The 2016 Summer Fun season started on June 4th. We had about 1,500 people that visited, it was very successful.

I want to announce that our public works night is coming up at Holman Stadium on Thursday, July 14th at 6:00 p.m. and will continue through the Silver Knights game. We will have informational displays, mini golf and the street department will have equipment there much like Touch-a-Truck and there will be prizes.

Commissioner Bergeron

Also, Al St. Louis, the gentleman who sings the National Anthem is singing the song for his 500th time. It's going to break a record.

Director Fauteux

This is a picture of our mill and fill on Colburn Avenue and we are going from Colburn Street to Concord Street and we will be milling out for the new crosswalks in preparation for the XD patterns on Hall, Layton and Courtland. This is a berm replacement on Glen Drive that was destroyed by a snow plow. We have replaced about 600 feet citywide of berm. This is a catch basin repair at 135 Main Street. This is paving and sidewalk replacement on Raymond Street. We didn't cut any trees by the way, we just pulled the stumps. Here is stump removal and sidewalk replacement on Chester Street. Here you see some highlights from our fleet department, you see breaks are being inspected as part of an annual state inspection. These are three screens that were upgraded as part of SCADA system at wastewater and this will be a two-year project. We will have night time paving on Broad Street from Broad Crest Lane to Hyannis Street this Sunday, June 26th through Friday, June 30th from 8:00 p.m. to 6:00 a.m. We have started our set back barrier wall at the landfill. Just to remind everyone that the Solid Waste Department will be closed on Monday, July 4th in observance of Independence Day and curb side collections will be delayed for one day that week.

Commissioner's Comments

Commissioner Ackerman

I had sent in a communication I had received on Auburn Street and I haven't heard back.

Director Fauteux

Andy is actually looking into that and I should be able to get back to you tomorrow.

Commissioner Ackerman

I too live off of Exit 5W where the dangerous intersection is that Mrs. Johnson commented on. Can we take a look at that? I find more times than not that I am getting edged out by people that need to go further west on West Hollis Street. I did speak to the former Superintendent of Streets and he had reassured me that a lot of investigation had gone on and felt it might need some legal enforcement of laws. I think the painting of lines that are solid white might be a way to avoid this going forward as well as more arrows to the left showing that it is a turn signal might be appropriate.

Director Fauteux

As many people as you talk to people have differing opinions on what should and shouldn't be done. Some people love the new traffic pattern and some people hate it; it's really a 50/50 mix. I did speak with Mrs. Johnson yesterday and I went to look at it with our Traffic Engineer, Wayne Husband today and we are going to put a sign on the mast arm that will say left lane must turn left. We will try that first. The other thing we can do is put in a pocket lane. I'm a little reluctant to do that just because people now have gotten used to what exists there now. Let's try the signage first and hopefully that will help and if it doesn't we will create the pocket lane.

Commissioner Ackerman

In talking with some of the residents, a sign on the mast almost seems like at the last point of return. It might be too late because if it's not big enough they won't see it 75' back.

Director Fauteux

It will be a large sign.

Commissioner Ackerman

I do recommend that we think about more signage even further back.

Director Fauteux

Okay.

Commissioner Ackerman

Is there also a way to consider her comment about Mine Falls? Is that being looked at?

Director Fauteux

It's a tough thing to police. We don't have staff in Mine Falls. I did talk to the superintendent about putting additional signage and maybe larger signage at the entrance of the park. Unfortunately, the people that do that sort of thing I don't think the signage will deter them but we can try.

Commissioner Pappas

As far as the intersection goes, I would agree that the issue is that there is not enough forewarning of that left hand turn and I would agree that the sign is almost too late. When you are not driving there all of the time people are quite aggressive and it's hard to get in that other lane and I think painting is cheap and between that and the sign we might consider that.

Commissioner Bergeron

When did that intersection change?

Director Fauteux

I think about one year ago.

Commissioner Bergeron

I would agree that it is awkward and it's more awkward for someone like myself who doesn't travel that way frequently.

Director Fauteux

One way or another you've got to merge so that creates a difficult situation. Former Mayor Donnalee Lozeau lives there and she's the one that really felt that was the best scenario. A lot of folks believe that what exists now is the best option but that doesn't mean that we can't do some additional things to try to make it better and we will look at that.

Commissioner Bergeron

In regards to Mrs. Johnson's comment about Mine Falls Park she is spot on and we are very fortunate that park has an Advisory Committee who does their trail days and clean-up; they are a great group of people and they could use some more volunteers. I think there is a link on our website for the Mine Falls Park Advisory Committee.

Commissioner Moriarty

I think the suggestion of additional signs at Mine Falls for the leash law would be good. I've been bit by a dog jogging through there. They probably won't abide by it but still having it will be better.

Director Fauteux

We will definitely put additional signage up at each entrance. I've already asked the superintendent to do that.

Commissioner Pappas

Do we have a timeframe on the street lights on Swart?

Mr. John Ibarra, Superintendent of Streets

I will have to follow up with that but Liberty had put in a work request with Eversource. They are usually weeks out. I spoke with them about three weeks ago and met them on the site and that's when there was a detection of the gas and drilled through the conduit. We just have to get everyone coordinated to go do a dig and replace some wire. I will keep you informed on that.

Commissioner Pappas

I think you will really have to keep your thumb on Eversource because we've tried to work with them ourselves and it's been years.

Mr. Ibarra

I will follow up with them tomorrow and get back to you.

Commissioner Pappas

Okay, great, thank you.

I do want to comment on our selection of Mr. Ibarra. I think that it's been difficult in the Street Department that we've had several superintendents within a short period of time and it's really good to see someone who wants to make a time commitment to the city. I think in years past Mr. Hall was there forever and then Mr. Pollack and I think you have that knowledge there and it's a very difficult job and a lot of people burn out. The problem is your learning curve is the first two or three years and that seem to be what we have gone through. I wish you the best of luck and I feel pretty confident that it's going to work out quite well.

Commissioner Pappas motioned to adjourn.

Commissioner Moriarty seconded the motion.

Meeting adjourned at 6:15 p.m.

**Board of Aldermen
City of Nashua**

229 Main Street / P O Box 2019
Nashua, NH 03061-2019
(603) 589-3030 • FAX: (603) 589-3039



Memorandum

TO: Board of Public Works
FROM: Susan K. Lovering, Aldermanic Legislative Manager
DATE: June 29, 2016
SUBJ: Referrals from the Board of Aldermen

The following attached items were introduced at the regular meeting of the Board of Aldermen on June 28, 2016, and referred to the Board of Public Works as well as the Budget Review Committee and the Committee on Infrastructure, respectively:

R-16-047

**AUTHORIZING THE MAYOR AND CITY TREASURER TO ISSUE BONDS
NOT TO EXCEED THE AMOUNT OF ONE MILLION DOLLARS (\$1,000,000)
FOR VARIOUS IMPROVEMENTS AT THE SOLID WASTE DEPARTMENT
FOUR HILLS LANDFILL**

and

R-16-048

**APPROVING A LOCATION OFF STADIUM DRIVE AS THE REPLACEMENT
SITE FOR THE DAVID W. DEANE SKATEBOARD PARK CURRENTLY
LOCATED ON BRIDGE STREET**

Please forward the Board's written recommendations at your earliest convenience. Thank you in advance.

Attachments



RESOLUTION

AUTHORIZING THE MAYOR AND CITY TREASURER TO ISSUE BONDS NOT TO EXCEED THE AMOUNT OF ONE MILLION DOLLARS (\$1,000,000) FOR VARIOUS IMPROVEMENTS AT THE SOLID WASTE DEPARTMENT FOUR HILLS LANDFILL

CITY OF NASHUA

In the Year Two Thousand and Sixteen

RESOLVED by the Board of Aldermen of the City of Nashua that the Mayor of the City of Nashua and the City Treasurer of the City of Nashua are hereby authorized to issue and sell general obligation bonds of the City in an aggregate principal not to exceed one million dollars (\$1,000,000). The proceeds of said bonds shall be used for the following improvements at the Four Hills Landfill:

<u>Project</u>	<u>Amount to be borrowed</u>	<u>Useful Life</u>
Expansion of the setback barrier wall (soil wall)	\$200,000	20 years
Expansion of the landfill gas system	\$300,000	20 years
Design of Phase III landfill expansion and the permitting of Phase IV	\$500,000	20 years

Pursuant to Nashua City Charter §54-a, this resolution requires a “duly advertised public hearing.” Also see N.H. RSA 33:9, which requires a 2/3 vote for passage of this resolution.

The bonds shall be general obligations of the City of Nashua, payable as to principal and interest from ad valorem taxes, which will be levied without limitation as to rate or amount on all taxable property within the territorial limits of the City of Nashua.

The bonds shall bear the manual or facsimile signature of the City Treasurer and the Mayor. In accordance with Chapter 91 of the New Hampshire Acts of 2005, bonds issued pursuant to this resolution shall not require an authenticating certificate of a bank or trust company doing business in the State of New Hampshire or The Commonwealth of Massachusetts, or the Commissioner of Revenue Administration.

The bonds are to be issued in fully-registered form by means of a book-entry system or otherwise and shall have such terms and conditions and be in such form, subject to the provisions

RESOLUTION

R-16-047

of this resolution and applicable law, as shall be determined by the Mayor and the City Treasurer.

The setback barrier wall project and the expansion of the landfill gas system represents one year of funding for a multi-year project. Funding for the out-years will be determined at a later date. The design of the phase III landfill expansion and the permitting of phase IV will determine the amount needed for the construction of the phase III landfill.

RESOLVED FURTHER, that the Mayor is authorized to enter into the required contracts therefor as well as any amendments to be made thereto or any other documentation necessary for the receipt of said funds.

LEGISLATIVE YEAR 2016

RESOLUTION:

R-16-047

PURPOSE:

Authorizing the Mayor and City Treasurer to issue bonds not to exceed the amount of one million dollars (\$1,000,000) for various improvements at the Solid Waste Department Four Hills Landfill.

SPONSOR(S):

Mayor Jim Donchess

**COMMITTEE
ASSIGNMENT:**

FISCAL NOTE:

It is anticipated that the bond would be sold in FY 17/18 for a 20 year term. It is estimated the interest rate will be approximately 3.0% and the total cost of the bond over the 20 years will be \$1,315,000 including interest. The average annual payment will be approximately \$66,000 beginning in FY 18/19.

ANALYSIS

This resolution authorizes the Mayor and the City Treasurer of the City of Nashua to issue and sell general obligation bonds of the City in an aggregate principal amount not to exceed one million dollars (\$1,000,000). The proceeds of said bonds shall be used for work on the listed Solid Waste Department Four Hills Landfill improvements, with their associated life spans. Note that the bonded amounts for the setback barrier wall project and the expansion of the landfill gas system represent one year of funding for multi-year projects. The funding mechanism for the out-years will be determined at a later date. The design of the phase III landfill expansion and the permitting of phase IV will determine the amount needed in the future for the construction of the phase III landfill.

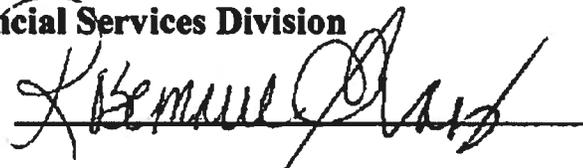
Pursuant to Nashua City Charter §54-a, this resolution requires a "duly advertised public hearing". Also see NH RSA 33:9, which requires a 2/3 vote for passage of this resolution.

This legislation should be referred to the Board of Public Works for its review and approval.

**Approved as to account
structure, numbers and
amount:**

Financial Services Division

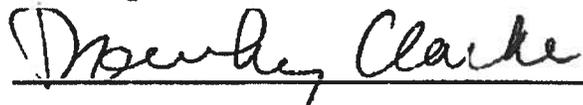
By:



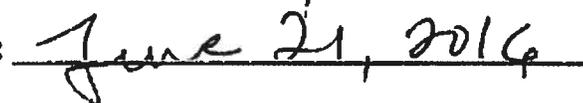
Approved as to form:

Office of Corporation Counsel

By:



Date:





RESOLUTION

APPROVING A LOCATION OFF STADIUM DRIVE AS THE REPLACEMENT SITE FOR THE DAVID W. DEANE SKATEBOARD PARK CURRENTLY LOCATED ON BRIDGE STREET

CITY OF NASHUA

In the Year Two Thousand and Sixteen

WHEREAS R-09-168 amended authorized the Business and Industrial Development Authority (“BIDA”) to enter into agreements for the sale and redevelopment of city-owned property on Bridge and Sanders Streets. With respect to the skate park currently located on Bridge Street, the resolution contains the following language:

“the Business and Industrial Development Authority is hereby authorized to seek a lot-line adjustment between the parcels described as Lot 40-48, 70 Bridge Street and Lot 40-34 to provide for the continued use, expansion and operation of the David W. Deane Skateboard Park. Any land not necessary for that purpose will be included in the transfer and redevelopment agreements for L Bridge Street, Lot 40-34. If the city can accommodate the skateboard park in an alternate location approved by the Director of the Public Works Division, then the Business and Industrial Development Authority is authorized to include Lot 40-48, 70 Bridge Street in the agreements for the transfer and redevelopment authorized by this resolution”;

WHEREAS BIDA did subsequently enter into a “Bridge Street Waterfront Development Preferred Developer Agreement for Sale of Land for Private Development” with Renaissance at Nashua with respect to this property. The agreement recited the same language about the skateboard park that was in the resolution, and also added that “the Parties shall use their best efforts to locate such a facility [skateboard park] off-site”;

WHEREAS R-04-66 established an expendable trust fund pursuant to N.H. RSA 31:19-a for preservation, maintenance, and educational activities relating to the David W. Deane Skateboard Park and appointed the Board of Public Works as the agent to expend;

RESOLUTION

R-16-048

WHEREAS R-13-127 amended added an additional purpose to the David W. Deane Skateboard Park Expendable Trust Fund, said purpose being relocation and construction of a new skate park; and

WHEREAS after consideration of possible locations for a replacement skateboard park, a portion of the City's land on Stadium Drive (Sheet E, Lot 1359) as depicted on the attached plan, has been selected as the location of the replacement skateboard park.

NOW, THEREFORE *be it resolved by the Board of Aldermen of the City of Nashua* that the Board of Aldermen approve the location on Stadium Drive as shown on the attached plan as the skateboard park replacement site.

LEGISLATIVE YEAR 2016

RESOLUTION:

R-16-048

PURPOSE:

Approving a location off Stadium Drive as the replacement site for the David W. Deane Skateboard Park currently located on Bridge Street

SPONSOR(S):

Alderman-at-Large David W. Deane

**COMMITTEE
ASSIGNMENT:**

FISCAL NOTE:

Cost to be covered by the David W. Deane Skateboard Park Expendable Trust Fund, Fund # 7054 with a current balance of \$537,854.

ANALYSIS

This legislation gives BOA approval for the relocation of the David W. Deane Skateboard Park currently on Bridge Street to a new location on City property off Stadium Drive. The source of funds for the construction of the new skate park is the David W. Deane Skateboard Park Expendable Trust Fund. According to the Division of Public Works, new parking will be designed for the area and the existing Street Department facilities will not be impacted.

This legislation should be referred to the Board of Public Works for its review and approval.

Approved as to form:

Office of Corporation Counsel

By: *Drewly Clarke*

Date: *June 21, 2016*



THE CITY OF NASHUA

Division of Public Works

Street Department

"The Gate City"

Board of Public Works Meeting of July 26, 2016 Street Department

Agenda

- A. **Motion:** To abolish one welder position and create an additional Mechanic I, 1st class position at the Street Department. Starting salary for this position is \$26.78 per hour for a yearly salary of \$55,702.40. Funding would be through: Department: 161 Street Department; Fund: General; Account Classification: 51-Salaries & Wages.

City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: July 26, 2016

From: Jon Ibarra. Superintendent of the Street Department

RE: To abolish one welder position and create an additional Mechanic I, 1st class position at the Street Department.

A. Motion: To abolish one welder position and create an additional Mechanic I, 1st class position at the Street Department. Starting salary for this position is \$26.78 per hour for a yearly salary of \$55,702.40. Funding would be through: Department: 161 Street Department; Fund: General; Account Classification: 51-Salaries & Wages.

Discussion: Since the Division of Public Works now purchases vehicles prebuilt and ready for use, there is a reduced need for 2 full time welders in the Street Department. Since the second welder left the department in early May for a Temporary Assignment, the current welder has had a steady work flow and performs the necessary fabrication needed to repair and upgrade equipment as needed. The current job description for a welder prevents workers from performing maintenance, mechanical or electrical repairs to equipment.

The Street Department has the need for an additional 1st Class Auto Mechanic. New vehicles take longer to diagnose and repair due to the complex electronic control systems that operate all the functions of the vehicles. In addition, the age and condition of the backline vehicles must be kept ready and available for winter and require constant maintenance and repairs at state inspection time. The Street Department services not only Division of Public Works vehicles, but also the Environmental Health, IT, Purchasing, Emergency Management, Building Maintenance and School Department vehicles. Because of this, the need for an additional 1st Class Auto Mechanic would help alleviate any potential backlogging of repairs that could impact the operations of various City departments. The job description for a 1st Class Auto Mechanic also includes welding duties which would allow them to assist the current Welder should it be needed.



THE CITY OF NASHUA

Division of Public Works

Engineering Department

"The Gate City"

Board of Public Works Meeting of July 26, 2016 Engineering Department

Agenda

- A. Motion:** To approve the Residential and Commercial Wastewater Service Permits and Fees as submitted.
- B. Motion:** To approve Drainlayer's License for Gordon T. Burke & Sons, Inc., PO Box 497, North Conway, NH 03860, in accordance with Nashua City Code §255-19 Issuance of Drainlayer's License.
- C. Motion:** To approve the selection of the color temperature (3000K or 4000k) for the light fixtures for use in the citywide in the LED Street Light Conversion Project.
- D. Motion:** To approve the use of the DW Hwy/Spitbrook Road Transportation Improvement funds for a contract with Electric Light Company from Cape Neddick Maine to install new vehicle detection (mostly video detection). Funding through the DW Hwy/Spitbrook Road Transportation Improvement funds: Department: 160 Admin & Engineering; Fund: Trust; Activity: 55 Other Services in the amount of \$51,300 and through Department 161 Street; Fund: Special Revenue; Activity: Paving of \$18,400, for a total contract award of \$69,700.
- E. Informational:** 2016 Paving Program Update
- F. Motion:** To approve the vendor contract for the purchase of lights and poles for the Nashua Heritage Rail Trail to Consolidated Electrical Distributors Inc. of Manchester, NH for the amount of \$87,288.00. Funding will be through Department 177 Parks & Recreation; Fund: CIP; Activity: Rail Trail Lighting.

City of Nashua, Public Works Division

To: Board of Public Works

Meeting Date: July 26, 2016

From: Stephen Dookran, P.E., City Engineer
Engineering Department

Re: Residential and Commercial Wastewater Service Permits

A. Motion: To approve the Residential and Commercial Wastewater Service Permits and Fees as submitted.

Discussion: Below is a list of Residential and Commercial Wastewater Service Permits issued for the period June 1 through June 30, 2016.

Date	Permit No.	Location Address	Owner Name/ Company Name	Comments	Fees	Betterment	Entrance	Connection
6/1/2016	23647	16 Adelaide Ave	Etchstone Properties	Residential-Original Application	\$295.00		X	
6/1/2016	23648	449 Amherst St	Nail Salon	Commercial-Increase Use	\$0.00		X	
6/9/2016	23649	11 Marmon Dr	Infinity of Nashua	Commercial Increase Use	\$0.00		X	
6/15/2016	23650	375 Amherst St	Hobby Lobby	Commercial Increase Use	\$0.00		X	
6/20/2016	23651	11 Courtney Ln	Robert Dion	Residential-Original Application	\$295.00		X	
6/21/2016	23652	44 Legacy Dr	Etchstone Properties	Residential-Original Application	\$295.00		X	
6/21/2016	23653	14 Serenity Ln	Etchstone Properties	Residential-Original Application	\$295.00		X	
6/21/2016	23654	4 Serenity Ln	Etchstone Properties	Residential-Original Application	\$295.00		X	
6/24/2016	23655	53-59 Main St	53-59 Main St LLC	Commercial Increase Use	\$0.00		X	
6/24/2016	23656	4 Burnett St	Hope Lacasse	Residential Original Application	\$1,502.50	X	X	X
6/30/2016	23657	8 Adelaide Ave	Etchstone Properties	Residential Original Application	\$295.00		X	
6/30/2016	23658	18 Adelaide Ave	Etchstone Properties	Residential Original Application	\$295.00		X	
6/30/2016	23659	20 Adelaide Ave	Etchstone Properties	Residential Original Application	\$295.00		X	
Total					\$3,862.50			

City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: July 26, 2016

From: Stephen Dookran, P.E., City Engineer
Engineering Department

Re: Drainlayer's License Application
Gordon T. Burke & Sons, Inc.

B. Motion: To approve a Drainlayer's License for Gordon T. Burke & Sons, Inc., PO Box 497, North Conway, NH 03860, in accordance with Nashua City Code §255-19 Issuance of Drainlayer's License.

Discussion: Gordon T. Burke & Sons, Inc., of North Conway, NH is requesting approval for a Drainlayer's License in accordance with Nashua City Code § 255-19 Issuance of a Drainlayer's License. They have experience in water, sewer and have three septic installer's licenses with the State of NH Subsurface Bureau. They have completed multiple sewer and drainage installations within the North Conway, NH sewer precinct.

References were checked and found to be acceptable.

City of Nashua, Public Works Division

To: Board of Public Works

Meeting Date: July 26, 2016

From: Stephen Dookran, P.E., City Engineer
Engineering Department

Re: LED Street Light Conversion Project

C. Motion: To recommend and approve the selection of the color temperature (3000K or 4000k) for the light fixtures for use citywide in the LED Street Light Conversion Project.

Discussion: As part of the LED Street Light Conversion project, the contractor, Siemens, was required to assist the City in a pilot test to determine the preference of using the 3000K or the 4000K fixture. The intent is to visually estimate whether the warmer appearance of the 3000K is enough to want to choose the less efficient light over the 4000K.

On Monday, July 11, 2016, the ten test fixtures (five 3000K and five 4000K) were installed on Terry Street between Charlotte Avenue and Cox Street. The five 3000K fixtures are in sequence on one side of Terry Street followed by the five 4000K on the other side of the street. It was a blind test and only the contractor knew which fixture was which.

The board and the public were invited to view the pilot lights and provide input.

City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: July 26, 2016

From: Wayne R. Husband, P.E., Senior Traffic Engineer
Public Works Division Administration

Re: DW Highway Vehicle Detection from Poisson Ave to Graham Drive

D. Motion: To approve the use of the DW Hwy/Spitbrook Road Transportation Improvement funds for a contract with Electric Light Company from Cape Neddick Maine to install new vehicle detection (mostly video detection). Funding through the DW Hwy/Spitbrook Road Transportation Improvement funds: Department: 160 Admin & Engineering; Fund: Trust; Activity: 55 Other Services in the amount of \$51,300 and through Department 161 Street; Fund: Special Revenue; Activity: Paving of \$18,400, for a total contract award of \$69,700.

Discussion: The existing underground vehicle detection loops along DW Highway between Poisson Ave and Graham Drive will be damaged during the milling operations prior to the completion of the Paving program work that is schedule for late summer and early fall of this year. The vehicle detection will need to be replaced with new detection. The plan is to install new above ground video detection on the mast arms at each of the signal locations in this project area. Above ground detection avoids many of the impacts associated with construction activity, utility work, pot holes and routine maintenance activities in the roadway.

The project was advertised on June 16, 2016. Three traffic signal contractors submitted bids on July 11, 2016. The bids were as follows,

Company	Amount Bid
Electric Light Company Cape Neddick Maine	\$69,700.00
Pine Ridge Technologies Wakefield, Mass	\$103,717.00
East Coast Signals, Inc. Deerfield, NH	\$134,900.00

The bids were reviewed, and it was recommended the contract be awarded to Electric Light Company from Cape Neddick, Maine as the qualified low bidder. They have done reputable work over the last several years for the City of Nashua on several similar traffic signal improvement projects.

City of Nashua, Public Works Division

To: Board of Public Works

Meeting Date: July 26, 2016

From: Stephen Dookran, P.E., City Engineer
Engineering Department

Re: 2016 Paving Program

E. Informational: 2016 Paving Program Update

Attachment: 2016 Paving Program Status Update

Discussion: Attached is an update of the status of the streets included in the 2016 Paving Program.

Work has started on 25 of 34 streets. Work completed includes milling, shimming, and casting adjustments.

Engineering continues to work with utilities, contractors, the public, and the Wastewater and Street Departments to prepare streets for paving.

Attachment E1. Paving Program Status Update

Final Schedule to be determined. Schedule dependent upon progress with preparation work and weather.

Streets	From	To	Status
Blackstone Dr	Amherst St	End	Shim completed. Final paving between July and October 2016
Bowman Ln	Barnesdale Rd	Northeastern Blvd	Mill completed. Paving to be done between July and October 2016
Briarcliff Dr	Fordham Dr	White Plans Dr	Will be paved between July and October 2016
Broad St	Hyannis St	Broadcrest Ln	Mill and shim completed. Final paving between July and October 2016
Carter Circle	Custom St	Circle	Shim completed. Final paving between July and October 2016
Chaucer Rd	Spencer Dr	Coleridge Rd	Shim completed. Final paving between July and October 2016
Coleridge Rd	Spencer Dr	Chaucer Rd	Shim completed. Final paving between July and October 2016
Custom St	Tenby Dr	Harris Rd	Shim completed. Final paving between July and October 2016
DW Highway, NB and SB	Adventure Way	Graham Rd	Shim scheduled to start on July 17th 2016
Eleventh St	Ledge St	90' From Ledge St	Mill completed. Paving to be done between July and October 2016
Fairmount St	Baldwin St	Charles St	Will be paved between July and October 2016
Flintlocke Dr	Jill Dr	End	Shim completed. Final paving between July and October 2016
Galway Rd	Kenmare Rd	Raleigh Dr	Will be paved between July and October 2016
Grenada Cir	Westgate Crossing	Circle	Mill completed. Paving to be done between July and October 2016
Jill Dr	Harris Rd	End	Shim completed. Final paving between July and October 2016
Kenmmare Rd	Kerry Ln	Raleigh Dr	Shim completed. Final paving between July and October 2016
Kerry Ln	Raleigh Dr	Raleigh Dr	Shim completed. Final paving between July and October 2016
Lisa Dr	East Dunstable Rd	Lamb Rd	Shim completed. Final paving between July and October 2016
Lone Star Dr	New Searles Rd	End	Shim completed. Final paving between July and October 2016
Loring Dr	Yarmouth Dr	End	Shim completed. Final paving between July and October 2016
Nelson St	Richmond St	End	Shim completed. Final paving between July and October 2016
Ninth St	Ledge St	Will St	Mill completed. Paving to be done between July and October 2016
Pelham St	Piermont St	Hyannis St	Shim completed. Final paving between July and October 2016
Piermont St	Nelson St	Broad St	Shim completed. Final paving between July and October 2016
Rene Dr	Main Dunstable	End	Shim completed. Final paving between July and October 2016
Stafford Rd	Nottingham Dr	Northeastern Blvd	Will be paved between July and October 2016
Swift Dr	Whitman Rd	Chaucer Rd	Shim completed. Final paving between July and October 2016
Tinker Rd	White Oak Dr	Beginning Of Bend	Will be paved between July and October 2016
Valencia Dr	Westgate Crossing	Circle	Shim completed. Final paving between July and October 2016
W Hollis St	Wellesley Rd	Gary St	Will be paved between July and October 2016
Whitman Rd	Spencer Dr	Coleridge Rd	Shim completed. Final paving between July and October 2016
Will St	Ninth St	Simon St	Mill completed. Paving to be done between July and October 2016
Streets to be paved as part of sewer rehabilitation project			
Temple St	East Hollis St	Commercial St	Will be paved between July and October 2016

City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: July 26, 2016

From: Stephen Dookran, P.E., City Engineer
Engineering Department

Re: Rail Trail Lighting

F. Motion: To approve the vendor contract for the purchase of lights and poles for the Nashua Heritage Rail Trail to Consolidated Electrical Distributors Inc. of Manchester, NH for the amount of \$87,288.00. Funding will be through Department 177 Parks & Recreation; Fund: CIP; Activity: Rail Trail Lighting.

Discussion: Approximately three years ago, the City of Nashua installed 32 solar-powered lights approximately 13 ft high along Nashua Heritage Rail Trail between Main St and Eaton St. Many of these lights and poles have been severely vandalized and it has been determined that the lighting levels produced by these systems may not have been adequate or reliable at certain times. The City proposes to replace the existing lights with more durable and reliable system consists of pole-mounted LED luminaries wired overhead. This new lighting system will completely replace the existing solar lighting along the trail between Main St. and Eaton St.

The LED luminaries will be the same luminaries, King Luminaire LED Pendant 60 Watt, used on the recent Main Street Sidewalk Improvements project. The King Luminaires are aesthetically pleasing and have performed well. The light poles will be pre-stressed concrete poles. The concrete poles will be painted black and are aesthetically pleasing. They are easy to install and have a long service life as they are resistant to freeze-thaw effects and corrosion. The lighting system will be powered with electricity provided by the public utility, Eversource.

A Request for Proposals (RFP) was emailed to four vendors and posted on the City's website on July 8, 2016 for the supply of lighting assemblies including LED luminaires, concrete poles and appropriate mast arms for the project. Two proposals were received on July 22, 2016, from the following vendors:

Rockingham Electrical Supply Co Inc. of Newington, NH	\$86,448.98
Consolidated Electrical Distributors Inc. (CED) of Manchester, NH	\$87,288.00

Neither vendor prepared their proposal in full accordance with the RFP, in particular, the photometric plan for this project to demonstrate adequate pedestrian illumination and spill control. When communicating with the vendors, CED was more responsive to all the City's questions and requirements and agreed to provide the photometric plan at no additional cost. Whereas, according to Rockingham Electrical Engineering, there will be an additional fee to prepare the photometric plan. At this point Rockingham Electrical has not provided the fee but Engineering estimates it at about \$1,200.00. Therefore, Engineering is

requesting approval to award the project to CED of Manchester, NH. CED's bid of \$87,288.00 is 1% over the \$86,448.98 lowest bid.

The need to contract with the vendor soon is due to an ordering time expected to be approximately eight weeks. A separate contract for the installation and wiring will be developed and issued to start work when the lighting assemblies are delivered.



City of Nashua

Public Works Division
9 Riverside Street
Nashua, NH 03062

Wastewater Department
(603) 589-3560
Fax (603) 594-3474

Board of Public Works Meeting of July 26, 2016 Wastewater Department

Agenda

- A. Motion:** To approve the User Warrants as presented.
- B. Motion:** To approve the selection of Ms. Krysten G. Gosztyla of Londonderry, NH to the position of Analytical Chemist at the Wastewater Treatment Plant. Starting salary for this position will be \$43,506 per year. Funding will be through: Department: 169 Wastewater; Fund: Wastewater; Account Classification: 51 Salaries & Wages.
- C. Motion:** To approve the contract to Woodard & Curran for professional services for a preliminary study and report on needed upgrades to the NWTF potable water booster station in the amount of \$17,500. Funding will be through: Department: 169 Wastewater; Fund: Wastewater; Account Classification: 53 Professional and Technical Services.
- D. Motion:** To approve the design phase services for the Air Handler Upgrades project to Wright Pierce of Topsham, ME in the amount not to exceed \$67,093. Funding will be through: Department: 169 Wastewater; Activity: Control Building HVAC Upgrades.

Administration Business Office (603) 589-3140	Street Department (603) 589-4750	City Engineer (603) 589-3120	Parks-Recreation Department (603) 589-3370	Solid Waste Department (603) 589-3410	Wastewater Treatment Plant (603) 589-3560
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City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: July 26, 2016
From: David A. Simmons, Superintendent
Wastewater Department
Re: Selection of Analytical Chemist

B. Motion: To approve the selection of Ms. Krysten G. Gosztyla of Londonderry, NH to the position of Analytical Chemist at the Wastewater Treatment Plant. Starting salary for this position will be \$43,506 per year. Funding will be through: Department: 169 Wastewater; Fund: Wastewater; Account Classification: 51 Salaries & Wages.

Attachments: Application

Discussion: This vacancy is the result of the promotion of Michelle Gaudette to Process Chemist effective May 30, 2016. This notice of vacancy was posted per the UAW – Professional CBA and there were no qualified internal applicants.

There were five qualified external candidates and all were interviewed. The interview team consisted of David Simmons, Wastewater Superintendent, Noelle Osborne, Plant Operations Supervisor, Heather Larocque, Laboratory Supervisor, James Lavalley, Maintenance Foreman and Jeff Lafleur, Solid Waste Superintendent. The team asked a multitude of questions pertinent to the job.

After all five interviews, the interview team members unanimously agreed that, with her educational background and proven track record of success in her employment history, Ms. Gosztyla was the most qualified candidate. Ms. Gosztyla was interviewed by Lisa Fauteux, Director of Public Works who also supports her candidacy.

Ms. Krysten G Gosztyla

Londonderry, NH 03053

Contents:

1. Online Application
2. Attachment: Cover Letter
3. Attachment: Resume

Prepared for: David Simmons
City of Nashua
Jun 28, 2016 7:51 AM

City of Nashua Online Application

Gosztyla, Krysten - AppNo: 10858

Date Submitted: 6/27/2016

Personal Data

Name: Ms. Krysten G Gosztyla
(Title) (First) (Middle Initial) (Last)

Other name(s) under which transcripts, certificates, and former applications may be listed:

Other: _____
(Title) (First) (Middle Initial) (Last)

Email Address: _____

Postal Address

Permanent Address

Number & Street: _____
 Apt. Number: _____
 City: Londonderry
 State/Province: NH
 Zip/Postal Code: 03053
 Country: United States of America
 Daytime Phone: _____
 Home/Cell Phone: _____

Present Address

Number & Street: _____
 Apt. Number: _____
 City: _____
 State/Province: _____
 Zip/Postal Code: _____
 Country: _____
 Phone Number: _____

Employment Desired

Open Vacancy Desired:

JobID: 504	Professionals: Analytical Chemist at Wastewater Treatment Plant (WWTP)	Date Last Submitted 6/27/2016	Experience in Similar Positions student taught
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Position Desired:

Professionals	1. Analytical Chemist		Experience in Similar Positions student taught
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Position Desired

Experience

Please list ALL relevant work experience beginning with the most recent.
 Please note that typing 'see resume' will not be accepted.

Current or Most Recent Position		Employer Contact Information		Supervisor/Reference Contact Information	
PillPack Certified Pharmacy Technician		250 Commercial St Manchester, NH		Brian Cronin 9788772706 briancronin@pillpack.com	
Date From - Date To:	06/2015 -	Full or Part Time:	Full	Last Annual Salary:	\$14.42/hr
Reason for Leaving:	still employed				
May we contact this employer?	Yes				
Responsibilities/Accomplishments at this Position	<input checked="" type="checkbox"/> Certified pharmacy technician and supervisor position requiring working closely with another supervisor to manage the night shift employees. <input checked="" type="checkbox"/> Was the first state certified technician in my department to become nationally certified.				

City of Nashua Online Application

Gosztyla, Krysten - AppNo: 10858

Date Submitted: 6/27/2016

Experience Continued

Previous Position Held		Employer Contact Information		Supervisor/Reference Contact Information	
Subway Crew Member		Durham, NH 03824 6038681638		Colleen Bartlett	
Date From - Date To:	07/2014 - 05/2015	Full or Part Time:	Part	Last Annual Salary:	\$9.00/hr
Reason for Leaving:	Graduated and moved out of the area				
May we contact this employer?	Yes				
Responsibilities/Accomplishments at this Position	☑Crew member position requiring serving customers, managing daily financials, and opening and closing the store.				

Previous Position Held		Employer Contact Information		Supervisor/Reference Contact Information	
University of New Hampshire Laboratory Technician		Durham, NH 03824		Adrienne Kovach akovach@unh.edu	
Date From - Date To:	06/2014 - 09/2014	Full or Part Time:	Part	Last Annual Salary:	\$10/hr
Reason for Leaving:	Summer only position				
May we contact this employer?	Yes				
Responsibilities/Accomplishments at this Position	☑Laboratory technician position requiring unaccompanied work on several ecology-based projects. Tasks included DNA extraction, PCR, and gel electrophoresis of samples. ☑This position also required keeping a detailed lab notebook and creating and maintaining an accurate and current electronic file containing all of my results.				

Previous Position Held		Employer Contact Information		Supervisor/Reference Contact Information	
Cold Stone Creamery Shift Leader		Manchester, NH 03110		Christopher Perry 6038010552 coldstonecreamerynh@gmail.com	
Date From - Date To:	07/2009 - 06/2014	Full or Part Time:	Part	Last Annual Salary:	\$8.25/hr
Reason for Leaving:	Commute was too long				
May we contact this employer?	Yes				
Responsibilities/Accomplishments at this Position	☑Leadership position requiring managing daily financials, overseeing other employees, and training new employees. ☑Additionally held the position of Assistant Social Media Coordinator which involved designing and implementing new promotions via social media applications.				

City of Nashua Online Application

Gosztyla, Krysten - AppNo: 10858

Date Submitted: 6/27/2016

Education

Please tell us about your educational background beginning with the most recent.

High School Attended: Londonderry High School, Londonderry NH

Graduation Status: H.S. Diploma

Highest Degree Attained: BA/BS/etc.

Colleges, Universities and Technical Schools Attended:

Name and location	Major area of study	Minor area of study	Degree	Graduated
University of New Hampshire	Biology	English	Bachelor of Sciences in Biology	

Statement

Tip: Use your word processor to copy and paste in your answers. Copy your answers from the word processor and then hit CTRL+V for PC or OpenApple+V for Mac to paste.

1. Please explain how your past personal and professional experience make you a quality candidate for the position for which you are applying.

To whom it may concern:

Based on my educational background in biology and chemistry I think I would make a great addition to your team.

As shown in my resume I have experience working in a laboratory setting before. I was able to quickly learn new procedures and repeat them independently. My tasks included preparing solutions for the lab, maintaining a clean work environment, as well as DNA extraction from striped bass fin clips, PCR and gel electrophoresis of the collected samples. This position also required keeping a detailed lab notebook and creating and maintaining an accurate and current electronic file containing all of my results. In addition to my work experience in the laboratory sciences field, I graduated in May 2015 from the University of New Hampshire with a bachelors of science in biology. I took many biology and chemistry laboratory classes which stressed the importance of careful and precise work.

Throughout my college career I held several part-time jobs where I was always able to work well with others and my managers have counted on me to accomplish important tasks that other employees could not. After graduating I began working at a pharmacy start-up where I obtained my national certification as a pharmacy technician and undertook a department supervisor position.

I want to express my interest in the Analytical Chemist position and I hope you take my application into account. This position seems like the perfect opportunity for me to learn new valuable skills and work on perfecting the ones I have already gained. I know I can gain valuable experience and insight from other professionals in the field, and I believe that is possible with your company. Thank you in advance for your time, and I hope to hear from you soon.

Sincerely,

Krysten Gosztyla

City of Nashua Online Application

Gosztyla, Krysten - AppNo: 10858

Date Submitted: 6/27/2016

Professional References

	Reference 1 of 3	Reference 2 of 3
Name:	Christopher Perry	Brian Cronin
Employer:	Cold Stone Creamery	PillPack
Current Position:	Owner/Manager	Floor Manager (Day Shift)
Home Phone:		
Cell Phone:		
Work Phone:		
Mailing Address:	10 Pond Point Road Bedford NH	
Email:	coldstonecreamerynh@gmail.com	briancronin@pillpack.com
Relationship to Candidate:	Former Manager	Current Manager
Years Known:	7	1
	Reference 3 of 3	
Name:	Tony Pickering	
Employer:	PillPack	
Current Position:	Floor Manager (Night Shift)	
Home Phone:		
Cell Phone:		
Work Phone:		
Mailing Address:		
Email:	tony@pillpack.com	
Relationship to Candidate:	Former Manager	
Years Known:	1	

Referrals

How did you hear about employment with us?

Other: Indeed

Additional Information

List any additional information which will help in determining your professional qualifications for a position.

Disclosures

Contract Status

* Are you currently under contract?

No

If Yes, which employer?

If Yes, when does it expire?

When may your present employer be contacted?

City of Nashua Online Application

Gosztyla, Krysten - AppNo: 10858

Date Submitted: 6/27/2016

Disclosures continued

Professional Status

* Have you ever failed to be rehired, been asked to resign a position, resigned to avoid termination, or terminated from employment? No

If Yes, explain:

* Can you perform all the essential job function(s) of the position(s) for which you are applying, with or without reasonable accommodation? Yes

List any accommodations:

Legal Information

Please note: Applicants are not obligated to disclose sealed or expunged records of conviction or arrest.

* Are you eligible to work in the United States? Yes

* Have you ever been convicted of a criminal offense other than a minor traffic violation? No

If yes, explain, giving dates:

Please Note: A conviction will not necessarily bar you from employment. Facts, such as date of occurrence and rehabilitation will be considered. This information will be used only for job-related purposes and only to the extent permitted by applicable law.

Equal Opportunity Employer

City of Nashua is an Equal Opportunity Employer. City of Nashua ensures equal employment opportunities regardless of race, creed, gender, color, national origin, religion, age, sexual orientation or disability. City of Nashua has a policy of active recruitment of qualified minority teachers and non-certified employees. Any individual needing assistance in making application for any opening should contact the Department of Human Resources.

Applicant's Acknowledgment and Agreement

By checking the box below, candidate authorizes the City of Nashua to conduct an investigation of candidate to determine whether candidate has been convicted of any criminal or drug offenses as set forth in such statute, and, upon request, agrees to execute an investigation authorization form as a condition for candidate's employment. Candidate may not be employed unless such investigations have been initiated.

I certify that the information given by me in this application is true in all respects, and I agree that if the information given is found to be false in any way, it shall be considered sufficient cause for denial of employment or discharge. I authorize the use of any information in the application to verify my statement, and I authorize past employers, all references and any other person to answer all questions asked concerning my ability, character, reputation, and previous employment record. I release all such persons from any

City of Nashua Online Application

Gosztyla, Krysten - AppNo: 10858

Date Submitted: 6/27/2016

liability or damages on account of having furnished such information.

X	Signed: Krysten Gosztyla Stamped: 6/27/2016 3:44:29 PM; 73.249.238.108; Applicant - #10858 - Krysten Gosztyla;
---	-------------------------------------------------------------------------------------------------------------------

I agree

Resume

To whom it may concern:

This letter is to express my interest in Analytical Chemist position. Based on my educational background in biology and chemistry I think I would make a great addition to your team.

As shown in my resume I have experience working in a laboratory setting before. I was able to quickly learn new procedures and repeat them independently. My tasks included preparing solutions for the lab, maintaining a clean work environment, as well as DNA extraction from striped bass fin clips, PCR and gel electrophoresis of the collected samples. This position also required keeping a detailed lab notebook and creating and maintaining an accurate and current electronic file containing all of my results. In addition to my work experience in the laboratory sciences field, I graduated in May 2015 from the University of New Hampshire with a bachelors of science in biology. I took many biology and chemistry laboratory classes which stressed the importance of careful and precise work.

Throughout my college career I held several part-time jobs where I was always able to work well with others and my managers have counted on me to accomplish important tasks that other employees could not. After graduating I began working at a pharmacy start-up where I obtained my national certification as a pharmacy technician and undertook a department supervisor position.

I want to express my interest in the Analytical Chemist position and I hope you take my application into account. This position seems like the perfect opportunity for me to learn new valuable skills and work on perfecting the ones I have already gained. I know I can gain valuable experience and insight from other professionals in the field, and I believe that is possible with your company. Thank you in advance for your time, and I hope to hear from you soon.

Sincerely,

Krysten Gosztyla

Krysten Gosztyla

Contact Information:

Home Address:

Londonderry, NH

Objective: To use my knowledge and skills to gain valuable work experience in the biological sciences field.

Education:

University of New Hampshire, Durham, NH Graduation Date: May 2015
• B.S. in Biology with a minor in English Cumulative GPA: 3.04
• Focus in Ecology-based biology with an interest in technical writing.

Skills:

Volunteer/Team Work: Team member on a trail maintenance team in Cumberland Island, Georgia, Volunteer for On Belay.

Software: Windows, Microsoft Office

Experience:

Cold Stone Creamery, Newington NH July 2009- June 2014

- Leadership position requiring managing daily financials, overseeing other employees, and training new employees.
- Additionally held the position of Assistant Social Media Coordinator which involved designing and implementing new promotions via social media applications.

University of New Hampshire, Durham NH June 2014- September 2014

- Laboratory technician position requiring unaccompanied work on several ecology-based projects. Tasks included DNA extraction, PCR, and gel electrophoresis of samples.
- This position also required keeping a detailed lab notebook and creating and maintaining an accurate and current electronic file containing all of my results.

Subway, Durham NH

July 2014- May 2015

- Crew member position requiring serving customers, managing daily financials, and opening and closing the store.

PillPack, Manchester NH

June 2015- present

- Certified pharmacy technician and supervisor position requiring working closely with another supervisor to manage the night shift employees.
- Was the first state certified technician in my department to become nationally certified.

Research:

NERACOOS Annual Meeting 2014

- Researched and designed a research proposal on Atlantic Salmon. Prepared a poster to showcase the proposal and explain to professionals in the marine biology field.

Certifications:

Pharmacy Technician (CPhT)

Interests:

- Hiking, cooking, photography, and New England sports teams.

City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: July 26, 2016
From: David A. Simmons, Superintendent
Wastewater Department
Re: Water Booster Station Upgrades – Study and Evaluation Phase

C. Motion: To approve the contract to Woodard & Curran for professional services for a preliminary study and report on needed upgrades to the NWTF potable water booster station in the amount of \$17,500. Funding will be through: Department: 169 - Wastewater; Fund: Wastewater; Account Classification 53: Professional and Technical Services.

Attachments: Woodard Curran Scope of Work and Fee.

Discussion: The purpose of the potable water booster station is to increase the pressure and flow rate of potable water entering the plant. It was originally installed in 1988 as part of the secondary upgrades project and consists of 2 underground vaults, one for the water meter and backflow preventer valves and the other consisting of pumps on skid. The water system vaults are at a low point in the water distribution system and are subject to grit accumulation which has caused issues with the back flow preventer valves closing properly.

A request for qualifications (RFQ) was sent to 6 consultants. Two of the consultants expressed an interest in the project and were interviewed. A committee picked Woodard and Curran as the consultant for this project, based on their better experience and familiarity with the NWTF.

The design project will have various phases beginning with the request to fund a preliminary evaluation and study of the booster station. Following the study and evaluation phase the consultant will have determined the optimal method for upgrading the water booster system and will have a better estimate on costs going forward. A separate contract for design phase services will be developed following the study-evaluation phase.

Woodard and Curran has an accelerated schedule for completing the study-evaluation phase in one month. They have completed numerous water upgrades projects at wastewater treatment plants and are well qualified for this work.

**ENGINEERING REPORT PHASE
CONTRACT FOR PROFESSIONAL SERVICES
FOR
TREATMENT WORKS**

CITY OF NASHUA, NEW HAMPSHIRE

This AGREEMENT made and entered into at Hillsborough County, New Hampshire, this _____ of _____ 20____, by and between City of Nashua hereinafter called the OWNER, and Woodard & Curran hereinafter called the ENGINEER.

WITNESSETH:

WHEREAS, the OWNER intends to examine the need, alternatives and cost of constructing Treatment Works including potable water booster station described within the Request for Qualifications titled "Water Booster Station Upgrades Project at N WTF (RFQ0265-060316)" dated May 13, 2016 consist of performing a site study of the potable water needs of the plant to develop an upgrade option for the existing underground valve and pump vault. This includes the potential elimination, relocation or reconfiguration as well as upgrading for integration into the OWNER's Supervisory Control and Data Acquisition (SCADA) system. A preliminary design will be provided based on the site study results. Final design and bid copies will be provided for the upgrade to the potable water booster station generally known as the: Water Booster Station Upgrades Project hereinafter called the PROJECT, and

WHEREAS, professional sanitary engineering services are required to prepare an engineering report, and

WHEREAS, such services are of a distinct professional nature and hence not subject to the bidding process,

NOW THEREFORE, in consideration of these premises and of the mutual covenants herein set forth, the OWNER hereby retains the ENGINEER to furnish the following engineering services in connection with the proposed PROJECT; and it is agreed by and between the OWNER and the ENGINEER as follows:

I. Services to be performed by the ENGINEER

A. The ENGINEER agrees to produce a complete and definitive Engineering Report to meet current division requirements and to perform any and all engineering incidental thereto. The detailed scope of the work is as outlined in the attached Hydraulic Needs Assessment and Evaluation of the Nashua Wastewater Treatment Facility.

~~B. Furnish to the OWNER two (2) copies of information needed for the acquisition of easements, site options for treatment plant and pump stations and route options for interceptor sewers within _____ calendar days after the Engineering Report has been approved by the New Hampshire Department of Environmental Services, Water Division, hereinafter called the DIVISION.~~

C. Furnish two (2) copies of the Engineering Report to the OWNER and two (2) copies to the DIVISION. Additional copies to be available at cost.

D. Prepare applications with supporting and associated documents for Federal, State and other grant or loan programs.

1. Assists the OWNER in securing grants or loans by State, Federal and other grant or loan agencies.

E. Provide the DIVISION with one copy of design calculations, work sheets, field notes, estimates and other data generated in preparing the Engineering Report in a form satisfactory to the DIVISION.

II. The OWNER'S Responsibilities

A. Assist the ENGINEER by placing at his disposal all available information pertinent to the PROJECT, including previous reports and other data relative to the reports.

B. Make provisions for the ENGINEER to enter upon public and private lands, municipal facilities and industrial establishments as required to perform work under this AGREEMENT.

III. Time of Completion

A. The ENGINEER agrees that he will submit to the DIVISION and the OWNER for approval after modification or revision as recommended by the DIVISION and agreed to by the ENGINEER the completed report within 30 consecutive calendar days following the

acceptance of the contract by the OWNER, and deliver same to the OWNER within 30 calendar days following the date of final approval by the DIVISION.

B. It is agreed by the parties to this contract that failure by the ENGINEER to complete the work within the time stipulated under III, A, above may be considered sufficient basis for the debarment of the ENGINEER from the DIVISION'S Roster of Prequalified Engineers as provided for under New Hampshire Code of Administrative Rules Env-Wq 603.08, or the Assessment of liquidated damages as provided for under RSA 485-A: 4, XII.

IV. Compensation to be Paid the ENGINEER

A. Method of Payment - Amount of Fee

1. Payment to the ENGINEER, for services rendered, shall be according to the following schedule:

Monthly billing based on hours and rates by labor category with mark-up and incidental expenses in accordance with the attached fee schedule.

2. The OWNER agrees to pay and the ENGINEER agrees to accept for all services under this AGREEMENT, a fee not to exceed

Site Study

Seventeen Thousand,

Dollars (\$ 17,500),

and the ENGINEER agrees that the work proposed is sufficient to satisfactorily complete the study and that the monies to be paid are adequate. The attached fee schedule with labor category, hours, hourly rate, markup, incidental expenses, and fees for special services, shall be the basis for billing for engineering services.

The ENGINEER agrees that prior to submitting the report to the DIVISION for formal approval he shall make revisions in the report as recommended by the DIVISION and agreed to by the ENGINEER without additional compensation. After formal approval if it becomes necessary to update the report for reasons beyond the control of the ENGINEER, payment for such revision or revisions shall be made to the ENGINEER on a basis to be negotiated with the DIVISION.

V. Additional Covenants

A. The ENGINEER agrees to assign in active charge of this PROJECT for the life of the contract a Project Engineer who is a permanent employee of the ENGINEER and who a "qualified sanitary engineer" is as defined under the DIVISION'S "Rules and Regulations for the Prequalification of Consulting Engineers." The Project Engineer shall be*

Woodard & Curran 41 Hutchins Drive, Portland, ME

* See appended resume describing the candidate's qualifications for the assignment.

Any proposed change in identity of the Project Engineer on the PROJECT shall first be approved by the DIVISION before transfer of responsibility is made. Failure of the ENGINEER to abide by the above covenant is agreed to be sufficient basis for debarment of the ENGINEER from the DIVISION'S Roster of Pre-qualified Consulting Engineers as provided for under New Hampshire Code of Administrative Rules Env-Wq 603.08.

B. The ENGINEER agrees to be solely responsible for all bills or claims for payment for services rendered by others and for all services and materials employed in his work, and to indemnify and save harmless the OWNER, and all of the OWNER'S officers, agents and employees against all suits, claims or liability of every name and nature arising out of or in consequence of the negligent acts or failures to act of the ENGINEER or others employed by him in the performance of the work covered by this AGREEMENT.

C. The ENGINEER further agrees to procure and maintain at his expense such workmen's compensation insurance as is required by the statutes and public liability insurance in amounts adequate to provide reasonable protection from claims for bodily injury, death or property damage which may result from his performance and the performance of his employees under this AGREEMENT.

D. All documents, including original drawings, design calculations, work sheets, field notes, estimates, and other data shall remain the property of the OWNER and shall be transmitted to the OWNER in clean and orderly condition on demand; however, these may be left in the possession of the ENGINEER at the OWNER'S discretion.

E. The ENGINEER shall not sublet, assign or transfer any part of the ENGINEER'S services or obligations

under this AGREEMENT without the prior approval and written consent of the OWNER and the DIVISION, and the contract shall be binding upon and inure to the benefit of the parties, their successors and assigns.

IN WITNESS WHEREOF, the parties hereto have affixed their hand and seals at _____ County, New Hampshire, the day, month, and year first above written.

ENGINEER:

By: _____
(Authorized Representative*)

Date: _____

OWNER:

By: _____
(Authorized Representative*)

Date: _____

APPROVED: **

DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Division

By: _____
(Authorized Representative)

Date: _____

* Signatures should be supported by appropriate document.
** It is agreed that as an act in furtherance of its statutory authority to approve engineering agreements for treatment works, the DIVISION'S approval does not impose any contractual obligation or liability on the State of New Hampshire, the Department of Environmental Services or the Division.

COST OR PRICE SUMMARY FORMAT FOR SUBAGREEMENTS UNDER NH SAG & SRF

Form Approved
DES 02/06

PART I - GENERAL

1. GRANTEE / LOANEE City of Nashua, New Hampshire		2. GRANT/LOAN NO.
3. NAME OF CONTRACTOR OR SUBCONTRACTOR Woodard & Curran, Inc		4. DATE OF PROPOSAL June 28, 2016
5. ADDRESS OF CONTRACTOR OR SUBCONTRACTOR (Include ZIP) 41 Hutchins Drive, Portland, ME 04102	6. TYPE OF SERVICE TO BE FURNISHED Engineering Study	

PART II - COST SUMMARY

7. DIRECT LABOR (Specify labor categories)	HOURS	HOURLY RATE	ESTIMATED COST	TOTALS
Project Manager	25	\$57.14	\$1,428.50	
Project Engineer	50	\$36.43	\$1,821.50	
Staff Engineer	40	\$27.00	\$1,080.00	
Resident Inspector				
Draftsman				
Technician				
Clerical	8	\$28.23	\$225.84	
DIRECT LABOR TOTAL:				\$4,555.84
8. INDIRECT COSTS (Specify indirect cost pools)	RATE	X BASE =	ESTIMATED COST	
	2.02	\$4,555.84	\$9,202.77	
INDIRECT COSTS TOTAL:				\$9,202.77
9. OTHER DIRECT COSTS				
a. TRAVEL			ESTIMATED COST	
(1) TRANSPORTATION			\$916.75	
(2) PER DIEM				
TRAVEL COSTS TOTAL:			\$916.75	
b. EQUIPMENT, MATERIALS, SUPPLIES (Specify categories)	QTY	COST	ESTIMATED COST	
EQUIPMENT SUBTOTAL:				
c. SUBCONTRACTS			ESTIMATED COST	
SUBCONTRACTS SUBTOTAL:				
d. OTHER (Specify categories)			ESTIMATED COST	
OTHER SUBTOTAL:				
e. OTHER DIRECT COSTS TOTAL:				\$916.75

Via Electronic Mail

June 28, 2016



Mr. William Keating
Project Engineer
Nashua Wastewater Treatment Facility
2 Sawmill Drive
Nashua, NH 03061

Re: Hydraulic Needs Assessment and Evaluation of the Nashua Wastewater Treatment Facility
RFQ0265-060316

Dear Mr. Keating:

Woodard & Curran is pleased to offer the following scope of work to provide the City of Nashua (Client) a Hydraulic Needs Assessment and Evaluation at the Nashua Wastewater Treatment Facility. The Standard Terms and Conditions previously approved by the Client shall become part of this letter Agreement.

Background

The Nashua Wastewater Treatment Facility's potable water booster system is in need of upgrades. The original intent was to demolish the existing infrastructure and design an above ground station. The modifications would ensure the proper operation of back flow preventers, eliminate enclosed space entry requirements and maintain redundancy to the plant's process water system. After discussion with the staff on Monday, June 26th, it appears that critical elements of this project may be achieved with alternative solutions. One option is to provide an interconnection between the potable water and the process water systems and relocate the pumps and back flow preventers into the Control Building if space is available. Further investigation is needed but Woodard & Curran believes this effort will result in a better, long term solution. This Hydraulic Needs Assessment and Evaluation will focus on the plant's potable and process water needs, historical flows, plant piping and footprint availability, which will ultimately better define the design project. By executing this evaluation with Woodard & Curran, the Wastewater Treatment Facility staff will have a current, comprehensive understanding of the needs and the best solutions for this project. All the information collected and hydraulic engineering performed will be incorporated into the next phase.

Scope of Services

Woodard & Curran shall perform the following tasks as part of this project.

1. Hold a Project Kickoff Meeting and perform a site walkthrough with the City to gain a comprehensive understanding of the hydraulic needs and existing conditions of the potable water supply to the plant. Discuss parameters such as:
 - a. Existing condition of potable feed water main and valving.
 - b. Current potable water uses throughout the plant.
 - c. Backup use of the potable water line for plant processing.
 - d. Potable water flow data and fire protection needs.

2. Collect and review water data and background information for the project including but not limited to:



- a. Potable water booster pumping station data including average and maximum daily demands.
 - b. Potable water pressure and flow requirements including fire demands.
 - c. Potable water piping configuration.
 - d. Potable water backflow requirements.
 - e. Available pressure and grade line delivered by the City's potable water system upstream of the existing booster pump station.
 - f. WWTP process flow requirements.
3. Coordinate with the City to perform one day of hydrant flow testing. Perform research on needed fire flow for the facility.
 4. Based on the information collected and reviewed under Tasks 1, 2 and 3, Woodard & Curran will evaluate the potable water system for the WWTF and identify critical needs. Recommended improvements will be presented and discussed with the City.
 5. A summary of our evaluation, as well as findings and recommendations will be presented in a Draft Technical Memorandum and submitted to the City for review and comment. We will meet to discuss any comments and incorporate revisions into the final version.

Assumptions:

The City will provide existing information required to perform a hydraulic needs assessment and evaluation.

COMPENSATION

The Scope of Services will be completed for a total price of \$17,500 billed as a lump sum amount. This budget will not be exceeded without prior written authorization by the Client.

SCHEDULE

Woodard & Curran will complete the work within 4 weeks of a notice to proceed.

Nashua Wastewater Treatment Facility - Water Booster Station Upgrades Project- Site Study
Woodard & Curran

Phase	DES Phase Description	Prncple In Charge	Client Manager	Project Manager	Lead Project Engineer	Project Engineer	Sr. Technical Advisor	Sr. Area Manager	Senior Engineer, SCADA	Staff Engineer, SCADA	Senior Engineer, Electrical	Staff Engineer, Electrical	Staff Engineer, Process	Senior Engineer, Structural	Staff Engineer, Structural	Sr. Cost Estimator	Designer	Senior Planner	Technical Specialist	Project Assistant	Total Hours per Phase	Total Cost per Phase	Expense	Subs	
001	Project Management	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	\$1,143	\$0	\$0	
002	Project Kick off and Site Visits	0	0	0	0	10	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	18	\$942	\$917	\$0
003	Collect and Review Data	0	0	0	0	10	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	18	\$942	\$0	\$0
004	Evolution of Data from Site Visits	0	0	0	0	10	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	18	\$942	\$0	\$0
005	Technical Advisory Team Review	0	0	5	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	5	\$266	\$0	\$0	
006	Presentation of Findings	0	0	0	0	10	0	0	0	0	0	0	8	0	0	0	0	0	0	0	18	\$942	\$0	\$0	
007	Delivery of Draft Report	0	0	0	0	10	0	0	0	0	0	0	8	0	0	0	0	0	0	0	18	\$942	\$0	\$0	
Total Hours per Category		0	0	25	0	50	0	0	0	0	0	0	40	0	0	0	0	0	0	0	8	123			
Rates		\$65	\$57	\$57	\$47	\$36	\$62	\$59	\$50	\$32	\$57	\$41	\$27	\$57	\$41	\$42	\$35	\$47	\$45	\$28					
Total Cost per Category		\$0	\$0	\$1,429	\$0	\$1,822	\$0	\$0	\$0	\$0	\$0	\$0	\$1,080	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$224		\$4,554	\$917	
Direct Labor Total				\$4,554																					
Indirect Costs				\$9,203																					
Subtotal Labor + Indirect			@ 2.02	\$13,757																					
Profit				\$2,825																					
Total Labor and Profit				\$16,581																					
Subconsultants				\$0																					
Expenses				\$917																					
Travel				\$0																					
Shipping				\$0																					
Supplies				\$0																					
Reproduction				\$0																					
Total Expenses and Subconsultants				\$917																					
Total Contract Price				\$17,500																					

Direct Labor Total	\$4,554
Indirect Costs	\$9,203
Subtotal Labor + Indirect	\$13,757
Profit	\$2,825
Total Labor and Profit	\$16,581

Subconsultants	\$0
Expenses	\$917
Travel	\$0
Shipping	\$0
Supplies	\$0
Reproduction	\$0
Total Expenses and Subconsultants	\$917

Total Contract Price	\$17,500
----------------------	----------



RACHEL GILBERT, PE

PROJECT MANAGER

Professional Profile

Rachel is a Project Manager and Professional Engineer with over 15 years of experience in water, environmental and civil engineering. She has worked on a wide range of projects for both municipalities and private clients, including water treatment, water distribution, water supply, water planning, wastewater planning, stormwater management, and site design.

Related Experience

City of Lawrence, MA – Water Infrastructure Improvements. Project Manager for the design and construction administration of improvements at the Lawrence Water Treatment Facility. The work includes security and SCADA upgrades, a partial enclosure for the clarifiers, a redundant compressor and blower system, new raw and finished water pumps, roofing, a mixing system in the 10 MG Low Service Reservoir and upgrades at remote sites throughout the City. Project is funded through the SRF Program. Responsibilities include managing project tasks for multiple engineering disciplines and overseeing the scope, schedule, and budget.

City of Lawrence, MA – Raw Water Pumping Station Evaluation. Project involves evaluating four raw water pumps to determine needed repairs and upgrades. Responsibilities include coordinating onsite inspections, meetings and preparing a report with costs for the City.

City of Marlborough, MA – Millham Water Treatment Plant Upgrades. Project Manager for the design and construction of upgrades at the Millham Water Treatment Plant to comply with EPA Long Term 2 regulations. Improvements include a new UV disinfection system, changes in the chemical feed systems, filter media replacement, new sump pumps, as well as upgrades to the filter, spent backwash system, finish water pumps, clarifier blowers, HVAC system, instrumentation and SCADA, electrical system and security. Responsibilities include managing all aspects of design and construction.

Town of North Andover, MA – Demolition of the North Pump Station. Project Manager for the design, bid and construction oversight to demolish an abandoned pump station. Responsibilities include managing all aspects of design and construction.

Lowell Regional Water Utility, MA – Finish Water Pump Replacement. Project involved a continued effort in repairing one of the finish water pumps and VFD after the initial startup and warranty period. Responsibilities include managing the general contractor and subcontractors and coordinating with the client.

Lowell Regional Water Utility, MA – Raw Water Intake Stratification Study. Project involves performing quarterly sampling for one year at the Raw Water Intake to determine optimal intake location based on water quality in the Merrimack River at varying levels. Responsibilities include developing a standard operating procedure for sampling, managing the field efforts for one year and preparing and presenting the final report and recommendations.

Education

Bachelors, Civil Engineering,
Merrimack College

Registrations

Professional Engineer - MA, 46263

Professional Associations

American Water Works Association
New England Water Works Association

Lowell Regional Water Utility, MA – Replacement of Tenth Street Storage Tank Contract. Project involves performing a tank siting study to determine potential water storage tank sites in the City of Lowell, designing a replacement storage tank for the Tenth Street Standpipe and providing bidding and construction phase engineering services. Project is funded through the SRF and ARRA programs. Responsibilities include performing a Tank Siting Study summary report, preparing plans and specifications for bidding, administering bidding and award process, overseeing construction, and managing scope, schedule and budget.

Lowell Regional Water Utility, MA – Water System Improvements Contract. Project involves chemical feed system upgrades, security system improvements, SCADA additions, installation of clearwell baffles, installation of new roof and drain- age system, various site improvements and a new booster pumping station. Clear well remained online when the baffles were installed by divers. Responsibilities include preparing plans and specifications for bidding; construction administration and oversight and client and contractor correspondence and coordination.

Lowell Regional Water Utility, MA – Water Treatment Facility Residuals Lagoons Cleanout. Project involves designing and construction administration of a residuals removal contract. Responsibilities include preparing plans and specifications for bidding; construction administration and oversight and client and contractor correspondence and coordination.

Lowell Regional Water Utility, MA – Electrical Evaluation. Project involves evaluating the power distribution at the water treatment facility and installing power monitors to monitor incoming power from the utility company. Responsibilities include managing the scope, schedule and budget as well as client correspondence and coordination.

City of Marlborough, MA – Millham Water Treatment Facility Long Term 2 Compliance. Project involves evaluating options for LT2 compliance at the Millham Water Treatment Facility including monitoring combined filter effluent, installing additional filtration systems, installing a UV disinfection system and installing a chlorine dioxide system. Responsibilities include preliminary design of a chlorine dioxide system with schematic plans and construction cost estimates with a summary report.

Town of Westford, MA – Perchlorate Removal System Media Replacement. Project involves developing technical specifications to replace resin from two of the plant's four perchlorate removal vessels. Responsibilities include evaluating the existing piping configuration and original O&M information, communicating with resin manufacturers, preparing specifications for bidding; construction administration and oversight and client and contractor correspondence and coordination.

Town of Millis, MA – Rehabilitation of Farm Street Standpipe. Project includes design, bid and construction oversight to rehabilitate a 940,000-gallon steel tank. Work involved abrasive blasting, interior and exterior coating, vent modifications and installation of a hydrodynamic mixing system. Responsibilities include managing all aspects of design and construction.

Town of Ashland, MA – Cedar Street Standpipe Mixing System. Project involves installing a hydrodynamic mixing system in an existing 2.5-million-gallon standpipe storage tank. Responsibilities include preparing plans and specifications for bidding; construction administration and oversight and client and contractor correspondence and coordination.

City of Lawrence, MA– Water Treatment Facility Security System. Project involves the design and construction administration of a new security system at the Water Treatment Facility with video surveillance and software. Project is funded through the SRF Program. Responsibilities include managing project tasks and overseeing the scope, schedule, and budget.

City of Lawrence, MA– Water Treatment Plant Photovoltaic System Installation. Project involves the design and construction administration of a 300kW photovoltaic system at the Water Treatment Facility. Project is funded through the SRF Program. Responsibilities include man- aging project tasks and overseeing the scope, schedule, and budget.

City of Lawrence, MA– Residential Water Meter Replacement Program. Project involves the design and construction administration of an 8,000 water meter replacement program throughout the City. The contract is the final phase to replace all City water meters and connect to the new Fixed Network Meter Reading System. Project is funded through the SRF Program. Responsibilities include managing project tasks and overseeing the scope, schedule, and budget.

City of Lowell, MA– Residential Water Meter Replacement Program. Project involves the design and construction administration of a 26,000 small diameter water meter replacement program through- out the City. The contract is the final phase to replace all City water meters and connect to the new Fixed Network Meter Reading System. Project is funded through the SRF Program. Responsibilities include managing project tasks and overseeing the scope, schedule, and budget.

City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: July 26, 2016

From: David A. Simmons, Superintendent
Wastewater Department

Re: NWTF Air Handler Replace Project

D. Motion: To approve the design phase services for the Air Handler Upgrades project to Wright Pierce of Topsham, ME in the amount not to exceed \$67,093. Funding will be through: Department: 169 Wastewater; Activity: Control Building HVAC Upgrades.

Attachments: Wright Pierce Scope of Work and Fee.

Discussion: The Wastewater Treatment Facility (WWTF) has air handling units designed to bring fresh air in from outside and either heat the air (during winter) or cool it (during warm conditions) depending on location. Most of these units were installed during the 1972 or 1988 plant upgrades. Although maintenance and repairs have occurred over the years, some units have failed beyond repair. This project proposes to replace 4 units, 2 in the control building that provide both heating and cooling and one in each of the sludge processing and grit buildings. In addition, the design will include a new air conditioning unit for the 1st floor office in the control building that houses the computer server. Currently an inside portable AC unit is being used to cool that office until a permanent installation is made.

A request for qualifications (RFQ) was sent to 6 consultants. Two of the consultants expressed an interest in the project and were interviewed. A committee picked Wright Pierce as the consultant for this project, based on their better experience and familiarity with the NWTF.

The project will have various phases during the design beginning with a preliminary design report (PDR), which will be completed within 30 days of a signed contract. Next is the 65% design completion which will be completed within 25 of the PDR. Next is the 90% design which will be completed within 25 days from the 65% design. Construction documents will be ready in seven days following acceptance of the 90% design. Overall, Wright Pierce should have construction documents ready in about 3 months following a signed contract.

Wright Pierce is ready to begin this project and has developed an accelerated schedule for having bid documents completed in a timely manner. They have completed numerous HVAC projects in many wastewater plants including some at the NWTF during past upgrades and are well qualified for this work.

**ENGINEERING DESIGN PHASE
CONTRACT FOR PROFESSIONAL SERVICES
FOR
TREATMENT WORKS**

CITY OF NASHUA, NEW HAMPSHIRE

This AGREEMENT made and entered into at Hillsborough County, New Hampshire, this _____ day of _____ 2016, by and between the City of Nashua hereinafter called the OWNER, and Wright-Pierce hereinafter called the ENGINEER.

WITNESSETH:

WHEREAS, the OWNER intends to construct Treatment Works improvements including, but not limited to, modifications to the Control, Dewatering and Grit Buildings air handling units at the Nashua Wastewater Treatment Facility, hereinafter called the PROJECT, and

WHEREAS, professional engineering services will be required for the preparation of plans and specifications and contract documents, and

WHEREAS, such services are of a distinct professional nature and hence not subject to the bidding process,

NOW THEREFORE, in consideration of these premises and of the mutual covenants herein set forth, the OWNER hereby employs the ENGINEER to furnish the following engineering services in connection with the proposed PROJECT; and it is agreed by and between the OWNER and the ENGINEER as follows:

I. Services to be Performed by the ENGINEER

A. Upon execution of this AGREEMENT, the ENGINEER agrees to proceed with all engineering services as shown in Exhibit A including surveying, drafting, calculations, borings, and other work as required and necessary to develop and produce final plans, specifications, and associated contract documents involved in the construction of treatment works for ~~as recommended in an Engineering Report dated and/or modified by a Report dated _____~~. The ENGINEER further agrees that said services shall include, but shall not necessarily be limited to:

1. Plans, Specifications, and Contract Documents

a. The preparation of detailed plans, specifications, and contract documents in accordance with the rules and regulations of the New Hampshire Department of Environmental Services, Water Division, hereinafter called the DIVISION, ready for the receipt of bids and the award of construction contracts for said construction; the work shall also include the preparation of estimates of the cost of construction based on the contract documents. Prepare applications with supporting and associated documents for Federal, State and other grant or loan programs. Assists the OWNER in securing grants or loans by State, Federal and other agency.

b. The furnishing of all the necessary subsurface investigations and field surveys required for the preparation and completion of approved plans, specifications, and contract documents.

c. The furnishing of twenty (20) ten (10) copies of the final plans, specifications, and contract documents to the OWNER; one (1) three (3) copies of which are to be submitted to the DIVISION. Additional copies to be available at cost to the OWNER.

2. ~~Site Acquisitions~~

~~a. Assistance to the OWNER including preparation of documents for the acquisition of lands, easements, and rights of way essential to the construction of the PROJECT.~~

II. The OWNER'S Responsibilities

A. Assist the ENGINEER by placing at his disposal all available information pertinent to the PROJECT, including previous reports and other data relative to the reports.

B. Make provisions for the ENGINEER to enter upon public and private lands, municipal facilities and industrial establishments as required to perform work under this AGREEMENT.

C. The OWNER also agrees to comply with DIVISION and Federal requirements (where applicable) and further agrees to acquire with the assistance of the ENGINEER all the necessary easements, options or outright purchases of land for the locations of said treatment works as shown on the contract plans. The provisions of this section shall be satisfied prior to submission of documents referred to in III (A) below. It is also understood that no approvals of reports or plans and specifications or other associated documents will be made by the DIVISION without fulfillment of this requirement.

III. Time Of Completion

A. The ENGINEER agrees that he will submit to the DIVISION for approval after modification or revision as recommended by the DIVISION and agreed to by the ENGINEER, the completed final plans, specifications, contract, and associated documents in compliance with the current issue of the DIVISION's standards of design within the time frames specified in Exhibit A _____ consecutive calendar days following the execution of this AGREEMENT, and deliver same to the OWNER within _____ calendar days following the date of final approval by the DIVISION.

B. It is agreed by the parties to this contract that failure by the ENGINEER to complete the work within the time stipulated under III, A, above may be considered sufficient basis for the debarment of the ENGINEER from the DIVISION'S Roster of Prequalified Engineers as provided for under New Hampshire Code of Administrative Rules Env-Wq

603.08, or the Assessment of liquidated damages as provided for under RSA 485-A: 4, XII.

IV. Compensation to be Paid the ENGINEER

A. Method of Payments B Amounts of Fees

1. Payment to the ENGINEER, for services rendered, shall be according to the following schedule:

Monthly billing based on ENGINEER'S actual direct labor costs based on a factor of 2.9479 times direct labor, plus reimbursable expenses, hours and rates by labor category with mark-up and incidental expenses in accordance with the attached fee schedule (See Exhibit B).

2. The OWNER agrees to pay and the ENGINEER agrees to accept for all services under Exhibit B of this AGREEMENT, a fee not to exceed

Sixty-Seven Thousand and Ninety-Three
Dollars (\$67,093.00).

3. If separate documents are required for additional construction contracts on this PROJECT, an additional fee as approved by the DIVISION shall be paid to the ENGINEER.

4. Prior to formal approval of contract documents by the DIVISION, the ENGINEER shall make such revisions in them as recommended by the DIVISION and agreed to by the ENGINEER without additional compensation. After formal approval, if it becomes necessary to revise the contract documents for reasons beyond the control of the ENGINEER, payment for such revision or revisions shall be made to the ENGINEER subject to approval by the DIVISION.

B. Limits of All Payments

1. The ENGINEER hereby assures the OWNER and agrees that the following fee for his services (exclusive of surveys, borings, and certain special services which follow) in connection with the preparation of final plans, specifications, and contract documents and other work as generally described under I(A) is adequate to complete the assignment and shall not exceed

_____ Dollars
(\$_____).

~~2. It is also agreed that payment to the ENGINEER for services in relation to engineering surveys, including layout and logging of borings, probings or seismic surveys, together with plats and project related special services shall be at actual cost. Actual cost shall include compensation to the ENGINEER for his work performed on these services. The ENGINEER further agrees that the work proposed under this item is enough to satisfactorily complete the contract documents, except as noted in Exhibit A Scope of Services, and that the moneys to be paid under this item are adequate for the work proposed and shall not exceed~~

_____ Dollars
(\$_____).

~~3. It is again agreed that payment to the ENGINEER for services in relation to subsurface exploration, including borings, probings or seismic surveys, shall be at actual cost as defined in IV (B) 2. The ENGINEER further agrees that the work proposed under this item is enough to satisfactorily complete the contract documents, except as noted in Exhibit A Scope of Services, and that the moneys to be paid under this item are adequate for the work proposed and shall not exceed~~

_____ Dollars
(\$_____).

~~4. It is also agreed that payment to the ENGINEER for services in relation to cadastral surveys and other work associated with the acquisition of lands, easements, and rights-of-way essential to the construction of the PROJECT shall be at actual cost as defined in IV (B) 2. The ENGINEER further agrees that the work proposed under this item is enough to provide adequate sites, easements, and rights-of-way to permit the unencumbered construction, operation, and maintenance of the completed project without interference in any way. The ENGINEER also assures the OWNER that the moneys to be paid under this item are adequate for the work proposed and shall not exceed~~

_____ Dollars
(\$_____).

V. Additional Covenants

A. The ENGINEER agrees to provide in active charge of this PROJECT for the life of the contract a Project Engineer who is a permanent employee of the ENGINEER and who is a "qualified sanitary engineer" as defined under the DIVISION'S "Rules and Regulations for the Prequalification of Consulting Engineers." The Project Engineer shall be*

Jeffrey R. Pinnette, P.E.

(name and address)

Wright-Pierce, 230 Commerce Way Suite 202,
Portsmouth, NH 03801

* *Resume clearly describing the candidate's qualifications for the assignment is appended for convenience of reference.*

Any proposed change in identity of the Project Engineer on the PROJECT shall first be approved by the DIVISION before transfer of responsibility is made. Failure of the ENGINEER to abide by the above covenant may be considered basis for debarment of the ENGINEER from the DIVISION'S Roster of Prequalified Consulting Engineers as provided for under New Hampshire Code of Administrative Rules Env-Wq 603.08.

B. The ENGINEER agrees to be solely responsible for all bills or claims for payment for services rendered by others and for all services and materials employed in his work, and to indemnify and save harmless the OWNER, and all of the OWNER'S officers, agents and employees against all suits, claims or liability of every name and nature arising out of or in consequence of the negligent acts or failures to act of the ENGINEER or others employed by him in the performance of the work covered by this AGREEMENT.

C. The ENGINEER further agrees to procure and maintain at his expense such workmen's compensation insurance as is required by the statutes and public liability insurance in amounts adequate to provide reasonable protection from claims for bodily injury, death or property damage which may result from his performance and the performance of his employees under this AGREEMENT.

D. All documents, including original drawings, design calculations, work sheets, field notes, estimates, and other data shall remain the property of the OWNER, and shall be transmitted to the OWNER in clean and orderly condition on demand; however, these may be left in the possession of the ENGINEER at the OWNER'S discretion.

E. The ENGINEER shall not sublet, assign or transfer any part of the ENGINEER'S services or obligations (except surveys and borings and other special services) under this AGREEMENT without the prior approval and written consent of the OWNER.

F. It is further agreed that the ENGINEER will assist the OWNER or his authorized agent in providing the DIVISION with clear documentation certifying that the necessary easements, options or outright purchases of land have been secured to provide for location of treatment works and other associated structures and equipment as shown on the contract plans or described in the specifications. Similar documentation will be submitted on approvals from the State Department of Transportation and/or other state agencies regarding location of treatment works within rights-of-way and other lands under their jurisdiction.

G. This AGREEMENT shall be governed exclusively by the laws of the State of New Hampshire and any litigation shall be brought in a court located in New Hampshire.

VI. Insurance

A. ENGINEER shall carry and maintain in effect during the performance of services under this contract: Professional liability insurance in the amount of \$1,000,000; General liability insurance in the amount of \$1,000,000 per occurrence; \$2,000,000 aggregate; \$1,000,000 Combined Single Limit Automobile Liability; and Workers' Compensation Coverage in compliance with the State of NH Statutes, \$1,000,000/\$500,000/\$100,000. ENGINEER shall maintain in effect at all times during the performance under this contract all specified insurance coverage with insurers and forms of policy satisfactory to the OWNER, acceptance of which shall not be unreasonably withheld. None of the requirements as to types, limits, and approval of insurance coverage to be maintained by ENGINEER are intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by ENGINEER under the AGREEMENT. The OWNER shall not maintain any insurance on behalf of ENGINEER. Any subcontractor used is the agent of the ENGINEER and not the OWNER. Subcontractor's are subject to the same insurance requirements as the ENGINEER.

B. ENGINEER will provide the OWNER with certificates of insurance for coverage as listed below and endorsements affecting coverage required by the contract within ten (10) calendar days after the OWNER issues the Notice of Award. The certificates and endorsements for each insurance policy are to be

signed by a person authorized by the insurer and who is licensed by the State of New Hampshire. Certificates must name the City of Nashua as an additional insured.

C. ENGINEER is responsible for filing updated Certificates of Insurance with the City of Nashua's Risk Management Department during the life of the contract. The OWNER requires thirty (30) days written notice of cancellation or material change in coverage.

1. All deductibles and self-insured retentions shall be fully disclosed in the certificates of insurance.

2. If aggregate limits of less than \$2,000,000 are imposed on bodily injury and property damage, the ENGINEER must maintain umbrella liability insurance of at least \$1,000,000. All aggregates must be fully disclosed on the required certificate of insurance.

3. The specified insurance requirements do not relieve ENGINEER of its responsibility or limit the amount of its liability to the OWNER or other persons, and ENGINEER is encouraged to purchase such additional insurance, as it deems necessary.

4. ENGINEER is responsible for and required to remedy all damage or loss to any property, including property of the OWNER, caused in whole or in part by or anyone employed, directed, or supervised by ENGINEER.

D. ENGINEER shall not allow any officer or employee of the OWNER to have any indirect or direct interest in this contract or the proceeds of this contract. ENGINEER warrants that no officer or employee of the OWNER has any direct or indirect interest, whether contractual, non-contractual, financial or otherwise, in this contract or in the business of the ENGINEER. ENGINEER also warrants that it presently has no interest and that it will not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of services required to be performed under this contract. ENGINEER further warrants that no person having such an interest shall be employed in the performance of this contract. If any such interest comes to the attention of the ENGINEER at any time, a full and complete disclosure of the interest shall be immediately made in writing to the OWNER. If the OWNER determines that a conflict exists and was not disclosed to the OWNER, it may terminate the contract at will or for cause.

day written notice of such interruption or termination transmitted to the ENGINEER by the OWNER. In the event of termination of any part of or all of this AGREEMENT, without fault on the part of the ENGINEER, the ENGINEER shall be entitled to compensation for all work performed to the satisfaction of the DIVISION and the OWNER, and pursuant to this AGREEMENT. In order that the ENGINEER shall receive payment under termination notice of any part of the work, all plans, drawings, tracings, field notes, estimates, specifications, proposals, sketches, diagrams, and calculations, together with all other materials and data collected or prepared in connection with the PROJECT shall be transmitted to the OWNER in a form acceptable to the OWNER and DIVISION.

VII. Termination

A. The OWNER shall have the right at any time for any reason whatsoever to interrupt or terminate any part of or all of the work required of the ENGINEER under this AGREEMENT, with a seven (7)

IN WITNESS WHEREOF, the parties hereto have affixed their hand and seals at Hillsborough County, New Hampshire, the day, month, and year first above written.

ENGINEER:

WRIGHT-PIERCE

By: _____
(Authorized Representative*)

Date: _____

OWNER:

CITY OF NASHUA

By: _____
(Authorized Representative)

Date: _____

APPROVED: **

DEPARTMENT OF ENVIRONMENTAL SERVICES
Water Division

By: _____
(Authorized Representative)

Date: _____

* Signatures should be supported by appropriate document.
** It is agreed that as an act in furtherance of its statutory authority to approve engineering agreements for treatment works, the DIVISION's approval does not impose any contractual obligation or liability on the State of New Hampshire, the Department of Environmental Services or the Division.

**WRIGHT-PIERCE
CERTIFICATE OF VOTE**

I, Walter J. Flanagan III, hereby certify that I am the duly elected clerk of Wright-Pierce.

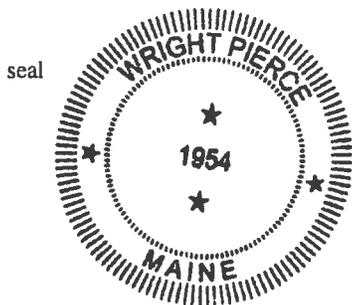
I certify that the following is a true copy of a vote taken at a meeting of the board of directors of the corporation, duly called and held on April 1, 2015, at which a quorum of the board was present and voting.

VOTED:

That any one or all of the following officers of Wright-Pierce, on behalf of the corporation, are authorized to execute all Wright-Pierce contracts, both service agreements and general contractual obligations:

John W. Braccio, President
William E. Brown, Chairman
Peter C. Atherton, Vice President
Paul F. Birkel Vice President
Richard N. Davee, Vice President
Jonathan C. Edgerton, Vice President
Walter J. Flanagan III, Vice President
Michael D. Giggey, Vice President
Jeffrey P. Musich, Vice President
John R. Nelson, Vice President
Christopher N. Pierce, Vice President

I hereby certify that said vote has not been amended or repealed and remains in full force and effect.




Walter J. Flanagan III, Clerk

Date: September 2, 2015

EXHIBIT A: Scope of Work

A. Prepare Preliminary Design Report for Air Handling Units Upgrade

- 1. Preliminary workshop.** ENGINEER shall attend a preliminary workshop with OWNER to review the work plan for the air handling units upgrade project, and solicit input on a wide range of issues including high efficiency air handling technologies, HVAC control alternatives, and ancillary improvements. Brainstorm on options, and identify the preferred alternatives for detailed evaluation.
- 2. Develop base plans.** Engineer shall develop base plans for construction documents using existing drawing information supplemented by detailed field measurements. This will include confirming the dimensions of the existing air handling units and ductwork to address conflicts on several of the existing drawings.
- 3. Prepare Preliminary Plans/Report**
 - a. ENGINEER will review existing documentation, observe existing conditions and establish mechanical system performance requirements. Ventilation, heating and air conditioning requirements throughout the building will be developed, taking into account details pertaining to the building envelope, especially roof insulation. The suitability of reusing existing HVAC equipment based on building envelope improvements, equipment condition and compatibility with proposed HVAC designs will be evaluated further.
 - b. Prepare Preliminary Design documents consisting of final design criteria, preliminary drawings and outline specifications for the selected HVAC equipment (air handling units and compressors), as well as other recommended improvements. Provide summary of all building design and support system improvements.
 - c. Advise OWNER if additional reports, data or other information or services are necessary and assist OWNER in obtaining such reports, data or other information and services.
 - d. Based on the information contained in the Preliminary Design documents, submit to OWNER a Preliminary Construction Cost Estimate.
 - e. Furnish a draft of the Preliminary Design document and review with OWNER.
 - f. Receive OWNER comments and provide written response to all comments to satisfaction of OWNER. Submit final Preliminary Design documents to OWNER for review.
 - g. The final Preliminary Design Report shall be submitted to the OWNER within 30 days of the OWNER's approval to proceed.

B. Final Design for Air Handling Units Upgrade

1. 65% Completion Plans, Contract Documents and Cost Estimates

Based on an agreed upon preliminary design documents for the air handling units upgrade project and appurtenances, ENGINEER shall proceed to develop 65% design plans, specifications, and bidding document. Provide a progress printing with five (5) copies of the preliminary plans and specifications submitted to the OWNER for review and comment. Hold a review meeting to discuss issues requiring OWNER input. The 65% documents shall be submitted to the OWNER for review within 25 days of the OWNER's approval of the final Preliminary Design Report.

2. 90% Completion Plans, Contract Documents and Cost Estimates

Following the review meeting, ENGINEER shall proceed with the 90% design plans, specifications, and bidding documents as well as to prepare an updated estimate of construction cost. Five (5) copies of these plans shall be submitted for review and comment. Five (5) Draft Contract Documents Manuals including all bidding requirements, contract forms, general conditions, Federal Provisions rules, regulations and forms, and specifications will also be submitted to the OWNER. Advise OWNER of any adjustments to the Construction Cost Estimate as a result of changes in scope of the Project.

- a. Meet with OWNER to discuss comments on 90% documents and provide written response to all comments received to the satisfaction of the OWNER.
- b. The 90% documents shall be submitted to the OWNER for review within 25 days after receiving the OWNER's 65% comments.

3. Final Plans, Contract Documents and Cost Estimates

Upon the OWNER's acceptance of the 90% plans and contract documents as adequately completed, the ENGINEER shall proceed with the final, bid-ready design plans, specifications and estimates for construction costs, revised to address the comments from the draft reviews. The submittal shall be ready to be advertised for construction bidding and shall include a schedule for the bidding and construction process within 7 days after receiving the OWNER's final comments.

C. Bidding Phase Services for Air Handling Units Upgrade

1. Assistance in securing construction bids, conducting bid opening, tabulation and analysis of bids, and recommendation regarding award of contract. A copy of the bid analysis will be furnished to the OWNER.
 - a. Make such revisions to the construction Contract Documents as may be necessary to comply with Federal, State or OWNER requirements.
 - b. Assume OWNER to be responsible for advertising for bids for the construction contract in appropriate newspapers and with the usual construction industry bidding information

services.

- c. Print and provide bidding documents to the OWNER for distribution. Assume twenty (20) copies of the Contract Documents and the plans shall be provided. An electronic version of all text, figures and drawings shall also be submitted to OWNER.
- d. Respond to bidders' questions.
- e. Prepare for and attend one pre-bid conference. Notify bidders of the conference.
- f. Prepare any required addenda to the bid documents. Assume 2 addenda.
- g. Attend one bid opening for the construction contract.
- h. Review all bids and prepare bid tabulation.
- i. Review the qualifications of the apparent low bidder(s) and compliance with other contract requirements. Report on the results of the reviews and issue a Recommendation for Award.
- j. The length of the Bidding Phase is assumed to be 28 days.

Exhibit B - Fee Schedule for Air Handling Unit Upgrades

COST OR PRICE SUMMARY FORMAT FOR SUBAGREEMENTS UNDER THE STATE REVOLVING FUND PROGRAM			Form Approved DES 3/96	
PART I - GENERAL				
1. APPLICANT - City of Nashua			2. GRANT/LOAN NO. CWSRF-	
3. NAME OF CONTRACTOR OR SUBCONTRACTOR - Wright-Pierce		4. FEIN	5. DATE OF PROPOSAL 6/29/2016	
6. ADDRESS OF CONTRACTOR OR SUBCONTRACTOR (Include ZIP) 230 Commerce Way, Suite 302, Portsmouth, NH 03801		7. TYPE OF SERVICE TO BE FURNISHED AHU Upgrades Design Engineering Services		
PART II - COST SUMMARY				
7. DIRECT LABOR (Specify labor categories)	HOURS	HOURLY RATE	ESTIMATED COST	TOTAL
Principal-in-Charge	0	\$65.00	\$0.00	
Project Manager	12	\$53.00	\$636.00	
Technical Advisor	0	\$50.00	\$0.00	
Ld. Project Engineer	92	\$34.00	\$3,128.00	
Project Engineer	0	\$29.00	\$0.00	
Sr. Civil Engineer	0	\$43.00	\$0.00	
Sr. Architect	56	\$52.50	\$2,940.00	
Sr. Structural Engineer	0	\$53.00	\$0.00	
Sr. Mechanical Engineer	40	\$44.50	\$1,780.00	
Mechanical Engineer	160	\$36.08	\$5,772.80	
Sr. Instrument. Engineer	0	\$45.00	\$0.00	
Sr. Electrical Engineer	56	\$55.12	\$3,086.72	
Sr. Engineering Technician	164	\$28.00	\$4,592.00	
Engineering Technician	0	\$24.00	\$0.00	
Admin. Assistant	24	\$19.50	\$468.00	
DIRECT LABOR TOTAL:	604			\$22,403.52
8. INDIRECT COSTS (Specify indirect cost pools)	RATE	x BASE =	ESTIMATED COST	
	168.00%	22,403.52	\$37,637.91	
INDIRECT COSTS TOTAL:				\$37,637.91
9. OTHER DIRECT COSTS				
a. TRAVEL			ESTIMATED COST	
(1) TRANSPORTATION	1	\$680.82	\$680.82	
(2) FIELD VISITS				
TRAVEL COSTS TOTAL:			\$680.82	
b. EQUIPMENT, MATERIALS, SUPPLIES (Specify categories)			ESTIMATED COST	
Printing, postage, etc.	1	\$366.60	\$366.60	
EQUIPMENT SUBTOTAL :			\$366.60	
c. SUBCONTRACTS			ESTIMATED COST	
			0.00	
SUBCONTRACTS SUBTOTAL :			0.00	
d. OTHER (Specify categories)			ESTIMATED COST	
OTHER SUBTOTAL :			\$0.00	
e. OTHER DIRECT COSTS TOTAL :				\$1,047.42
10. TOTAL ESTIMATED COST				\$61,088.85
11. PROFIT				\$6,004.14
12. TOTAL PRICE				\$67,093.00

JEFFREY PINNETTE, PE

Senior Project Manager

PROJECT ASSIGNMENT: Project Manager

Education

M.S., Civil Engineering,
University of Maine

B.S., Environmental
Engineering, Rensselaer
Polytechnic Institute

Professional Registration

Maine
Massachusetts
New Hampshire

Experience
30 Years

Joined Firm
1987

Professional Affiliations

New England Water
Environment Association

New Hampshire Water
Pollution Control
Association

Maine Wastewater
Control Association

Water Environment
Federation

New England Biosolids and
Residual Association

International Association
on Water Quality

Publications

Hankins, W.D., Richardson,
C.M, Tobiason, D.F.,
Eames, F., and Pinnette,
J.R., "Mitigating Wet
Weather and Filamentous
Bacterial Issues at the
Lewiston-Auburn WWTF",
WEFTEC, New Orleans,
Louisiana, 2004

EXPERIENCE SUMMARY

Mr. Pinnette is a senior project manager at Wright-Pierce with a strong background in wastewater treatment, residuals management and odor control. He currently manages projects for the city of Nashua, New Hampshire; the city of Manchester, New Hampshire; the city of Keene, New Hampshire; the Winnepesaukee River Basin Program in Franklin, New Hampshire; the Plymouth Village Water and Sewer District in Plymouth, New Hampshire; the city of Fitchburg, Massachusetts; the Greater Lawrence Sanitary District in North Andover, Massachusetts; FMC BioPolymer in Rockland, Maine; and the Lewiston-Auburn Water Pollution Control Authority in Lewiston, Maine. He has authored numerous articles on wastewater treatment, residual management, and odor control including the biofiltration section in "TR-16: Guides for the Design of Wastewater Treatment Works," published by the New England Interstate Water Pollution Control Commission.

RELEVANT PROJECT EXPERIENCE

Pump Stations / Collection System

Tenney Mountain Pump Station #4, Force Main Evaluation, and Phase 1 and 2 Upgrades, Plymouth, NH

Oversaw the evaluation and emergency Phase 1 replacement of a section of force main that had failed seven times in 18 months. Currently overseeing Phase 2 of the force main replacement project.

Fairground Road Sewer Settlement Evaluation and Upgrade, Plymouth, NH

Oversaw the evaluation and repair of a section of gravity sewer with severe settlement due to soil loss in the underlying bedding.

Maiden Lady Cove Pump Station Force Main Evaluation, Winnepesaukee River Basin Program, Franklin, NH

Oversaw evaluation and remediation of a section of force main that had been undermined due to soil loss in the bedding.

Flow Metering, Winnepesaukee River Basin Program, NH

Oversaw bidding phase of flow metering upgrade as part of as-needed engineering services.

Pump Stations Replacement and SCADA/Telemetry Upgrade, Manchester, NH

Overseeing construction of replacement pump stations for the Juniper and Trolley Crossing service areas. In addition, the project includes a new pump station SCADA and telemetry for all of the municipal wastewater pump stations in the city. The project also includes an upgrade of the screening and control systems at the 26-MGD West Side Pump Station.

City-wide Pump Station Evaluation, Manchester, NH

Oversaw an evaluation of the nine municipal wastewater pump stations in the city's collection system.

JEFFREY PINNETTE, PE

Senior Project Manager

Hogan, R.S., Garcia, M.M.,
Pinnette, J.R., and Thayer,
M.W., "Energy Self
Sufficiency for New
Biosolids Digestion and
Drying Facilities," Biocycle,
July 2003

Goodwin, J. P., Amenta, S.
A.R., Delo, C., Del Vecchio,
M., Pinnette, J.R., and
Pytlar, T.S., "Odor Control
Advances at
CoComposting Facility,"
Biocycle, January 2000

Ohr, K., Pinnette, J.R., and
Rasmussen, Ø., "Organic
Residuals Management in
Norway", Biocycle,
December 1998

Tvedt, S., Moe, M.,
Pinnette, J.R., and
Rasmussen, Ø.,
"Kristiansand Leads the
Way in Biowaste
Composting", Biocycle
December 1998

Segall, L., and Pinnette,
J.R., "Dewatering and
Composting Septage
Solids", BioCycle, March
1995

Giggey, M.D., Pinnette,
J.R., and Dwinal, C.A.,
"Odor Control Factors in
Compost Site Selection",
BioCycle, February 1995

Crescent Road Pump Station, Manchester, NH

Responsible for evaluation, design, and construction of \$1.2 million screening system upgrade for the Crescent Road Pump Station, which is the main pump station of the wastewater treatment facility. The project includes three new climber screens with 80-MGD peak flow capacity, three new wash presses and a variety of additional improvements.

West Side Pump Station, Manchester, NH

Completed evaluation of improvement needs at West Side Pump Station.

India Street Pump Station, Portland, ME

Managed evaluation of the 37-MGD India Street pump station as part of planning for eastern waterfront redevelopment.

Water and Sewer Utilities, Chatham, MA

Planned water and sewer utilities for an affordable housing project.

Submersible Pump Stations, Lisbon, ME

Inspected construction of three submersible pump stations and paving. Prepared assessment of an existing pump station and assisted in design of new cover for a water storage tank.

Flow Metering Data Analysis, Boston, MA

Prepared analysis of flow metering data from a sewer system evaluation survey for the Boston Water and Sewer Commission.

Wastewater Treatment

Update of Standard Operating Procedures at Nashua WWTF, Nashua, NH

Assisting Nashua WWTF staff in updating existing SOPs and generating new SOPs for main secondary treatment facility, wet weather treatment facility, and anaerobic digestion and solid handling facilities.

Wastewater Equipment Replacement Fund Update for Nashua WWTF, Nashua, NH

Assisting Nashua WWTF staff in updating the existing asset management equipment list at the Nashua WWTF, assessing remaining life and criticality, and determining budgetary replacement costs.

Capital and Debt Cost Allocation among Member Communities, Greater Lawrence Sanitary District, North Andover, MA

Conducted an evaluation of alternatives to the existing method for allocation of capital and debt costs among member communities for the GLSD.

Headworks Screening Upgrade, Nashua, NH

Currently completing the design on new influent screens for the main secondary WWTF including new automation for the raw influent pump station and wet weather treatment facility to minimize the potential for flooding of the lower screening area / pump station wetwell.

JEFFREY PINNETTE, PE

Senior Project Manager

Richardson, C.M., Giggey, M.D., Pinnette, J.R. and DeFilipp, P.A., "Performance Testing of an Agitated Bin Composting System Constructed Under Design-Build Procurement", Proceedings, American Water Works Association, December 5-8, 1993

Richardson, C.M., Donovan, J.F., Durfee, D.D., and Pinnette, J.R., "Agitated Bin Composting From Procurement to Start-Up", BioCycle, November 1993

Giggey, M.D., Marcy, G.J., Pinnette, J.R. and St. Hillaire, G., "Start-Up of a Large Advanced Septage Treatment Facility", Proceedings, American Water Works Association, December 5-8, 1993

Pinnette, J.R., Giggey, M.D., Hendry, G.E. and Richardson, C.M., "Moisture Balance of an Open Biofilter", Compost Science & Utilization, Spring 1993

Pinnette, J.R., "Modeling the Removal of Radon - 222 from Domestic Groundwater Supplies Using Granular Activated Carbon", Master's Thesis, University of Maine, February 1986

Main Electrical Upgrade at Franklin WWTF, Winnepesaukee River Basin Program, NH

Overseeing upgrade of main electrical service at the Franklin WWTF as part of "as-needed" engineering services.

Secondary System Upgrade, Fitchburg, MA

Overseeing design of a comprehensive secondary system upgrade at this 9.8-MGD facility. Upgrade includes installation of a biological selector, new blowers, new secondary clarifier mechanisms.

Aeration System Upgrade, Manchester, NH

Overseeing design of secondary system improvements including process upgrade to anaerobic selector/VMT; conversion from mechanical surface aerators to ultra-fine bubble aeration and new secondary bypass facilities at the 24-MGD WWTF.

Industrial Impacts Evaluation at Rockland WWTF, Rockland, ME

Overseeing the evaluation of industrial discharge impacts on the Rockland WWTF as required under a draft Administrative Consent Agreement.

Facility Plan Update, South Portland, ME

Oversaw the preparation of a facility plan update for this 6.7-MGD wastewater treatment facility. A unique aspect of this study is a comprehensive evaluation of the impact of rising sea levels, new headworks and dewatering upgrade.

Chelsea Screen House, Dewberry / Massachusetts Water Resources Authority, Chelsea, MA

Served as technical advisor for upgrade of screening facilities at the Chelsea Screen House.

Facility Plan Update and Energy Audit, Greater Augusta Utility District, Augusta, ME

Oversaw a facility plan update at this 4.8-MGD facility. Evaluation recommending continuing with pure oxygen generation system and a wide range of additional capital improvements.

Grit Removal Upgrade, Nashua, NH

Oversaw construction of grit handling improvements for treating flows of up to 50 MGD. The improvements to aerated grit removal facilities include new blowers, diffuser, grit removal screw conveyor, grit pumps and grit washers.

Primary and Aeration System Improvements, Greater Lawrence Sanitary District, North Andover, MA

Oversaw construction of primary clarifier, primary effluent gate, and diffused aeration system improvements at the WWTF that will allow future peak flows of up to 180 MGD.

CEPT and Interim Phosphorus Removal, Fitchburg, MA

Oversaw construction of \$6.1 million of improvements at 9.8-MGD Easterly WWTF including new chemical building with facilities for chemically enhanced primary treatment (CEPT) and interim phosphorus removal. This project also

JEFFREY PINNETTE, PE

Senior Project Manager

Presentations

Pinnette, J.R., and Cockburn, D.L., "Planning for Climate Change at Your Wastewater Treatment Facility: What You Should Be Doing Now," NEWEA Annual Conference, Boston, Massachusetts January 27, 2015

Peckenham, J.M., Pinnette, J.R., and MacDonald, G., "The Biosolids White Paper - Making Objective Science Accessible", International Water Association Specialist Conference on Biosolids, Moncton, New Brunswick, June 25, 2007

Hankins, W.D., Pinnette, J.R., Cockburn, D.L., and Weare, R.E., "Maximizing Wet Weather Treatment Capacity, The Greater Lawrence Sanitary District Case Study", NEWEA/NYWEA Joint Spring Conference, Groton, Connecticut, 2006

Pinnette, J.R., "Odorous and Greenhouse Gas Emissions from a Manure Management System: Evaluation of the Bion NMS Waste Treatment System," Biocycle Northeast Conference, August 19, 2002

Pinnette, J.R., Goodwin, J.P., and Tvedt, S., "Enclosed Biofilter System Performance," Biocycle Northeast Conference '99, Portland, Maine, September 13-14, 1999

includes new gravity belt thickening facilities and effluent flow measurement.

POTW Optimization Study, Fitchburg, MA

Oversaw facility planning level analysis of improvements needed to bring Easterly WWTF consistently into compliance with current permit. The recommended improvements include an \$18.1 million secondary system upgrade and a \$22.1 million tertiary phosphorus removal upgrade. These improvements will be implemented over a 12-year period under the provisions of a Consent Decree.

Wet Weather Facility Upgrade, South Portland, ME

Oversaw evaluation, design and construction upgrades for existing 33.1-MGD wet weather treatment facility at the South Portland WWTF.

WWTF Improvements, Plymouth, NH

Oversaw construction of improvements for the 0.75 MGD WWTF based on the recently completed facility plan. Improvements include hydraulic improvements to increase the peak flow capacity, and new sludge thickening, dewatering, and stabilization facilities.

Facility Plan Amendment, Woonsocket, RI

Oversaw update of facility plan for the 16-MGD WWTF to meet new total nitrogen limit of 3.0 mg/l and total phosphorus limit of 0.1 mg/l. The recommended plan includes \$40 million in immediate improvements to meet new limits, and additional improvements needed over the 20-year planning period.

Energy Audit and Physical Asset Evaluation, Biddeford, ME

Oversaw energy audit and physical assessment of all equipment within WWTP and identification of capital improvement needs.

Secondary System Evaluation, Greater Lawrence Sanitary District, North Andover, MA

Oversaw process modeling evaluation of options to enhance nutrient removal and sludge settleability, and reduce energy consumption and sludge production in the secondary system at the WWTF. Project also includes control improvements for blower system.

Secondary System Capacity Improvements, Fitchburg, MA

Oversaw process modeling evaluation of secondary system performance, and options to increase peak flow capacity and reduce use of secondary bypass. Interim improvements include a new clarifier mechanism, flow splitter modifications, and disinfection modifications to facilitate a 1-year trial of the recommended operating mode.

New Headworks Facilities, Fitchburg, MA

Oversaw the construction of new aerated grit facilities and replacement of the existing screening facilities under a fast track Administrative Order driven project. This \$6.1 million project is currently under construction and on schedule.

JEFFREY PINNETTE, PE

Senior Project Manager

Pinnette, J.R., "Aeration, Ventilation, and Indoor Air Quality at Enclosed Composting Facilities", Biocycle National Conference, Albuquerque, New Mexico, May 18, 1999

Pinnette, J. R., "Odor Control for Biosolids Composting", BioCycle Northeast Conference '96, Portland, Maine, September 9-11, 1996

Pinnette, J.R., Dwinal, C.A., Giggey, M.D. and Hendry, G.E., "Design Implications of the Biofilter Heat and Moisture Balance", Proceedings, 1995 USC/TRG Conference on Biofiltration, Los Angeles, California, October 5-6, 1995

Pinnette, J.R., Dwinal, C.A., and Giggey, M.D., "Porosity of Biofilter Media", Proceedings, USC/TRG Conference on Biofiltration, Los Angeles, California, October 5-6, 1995

Richardson, C.M., Pinnette, J.R., and Ecker, J.E., "Working Biofilters at Composting Facilities: Moving from Art to Science", Proceedings, WEF/AWWA Specialty Conference on Residual/Biosolids Management, Kansas City, Missouri, July 23-26, 1995

Preliminary Design of WWTF Capacity Improvements, Kennebec Sanitary Treatment District, Waterville, ME

Oversaw preliminary design report for WWTF capacity improvements. The project includes new biological selector, flow split improvements to the aeration basins, new blower system, and adding fine bubble aeration to second aeration basin.

WWTF Capacity Evaluation, Kennebec Sanitary Treatment District, Waterville, ME

Oversaw capacity evaluation of WWTF that identified significant potential increase in ultimate capacity. Also responsible for evaluation of flow measurement at the WWTF.

WWTF Capacity Evaluation, Rockland, ME

Oversaw evaluation of peak flow capacity at the WWTF and development of a wet weather management plan.

WWTF Capacity Evaluation, Lewiston-Auburn Water Pollution Control Authority, Lewiston, ME

Managed capacity evaluation of WWTF focused on potential to increase peak hourly flow up to 41 MGD for CSO abatement as well as assessing impacts of higher loadings from major industrial discharger.

Value Engineering of Headworks and Secondary System Upgrades, Norwalk, CT

Member of value engineering team for a \$35 million headworks upgrade including all new influent screening, pumping, and grit removal with a peak flow capacity of 95 MGD. Subsequently participated in value engineering of \$70 million membrane bioreactor upgrade for secondary system to achieve 3MGD/l total nitrogen.

Evaluation of Buy-in Fee, Greater Lawrence Sanitary District, North Andover, MA

Assisted in evaluation of buy-in fee for new community to connect to District.

WWTF Blower Control Upgrade, Bangor, ME

As a subcontractor to Honeywell, assisted with design requirements to implement inlet valve throttling of multi-stage centrifugal blowers. The project was implemented as an energy saving measure for these blowers that serve the activated sludge process, which follows the biotower process.

WWTF Improvements for CSO Abatement, Greater Lawrence Sanitary District, North Andover, MA

Managed the design and construction of \$18 million in wastewater treatment plant improvements for CSO abatement. The improvements will increase the peak flow at the WWTP to 135 MGD with provision for a future increase to 165 MGD. The project includes new aerated grit removal, new influent screens and wash presses, a new secondary bypass facilities, and secondary treatment modifications including an anaerobic selector and fine-bubble aeration upgrade. Managed evaluation and design phases of project.

JEFFREY PINNETTE, PE

Senior Project Manager

Pinnette, J.R., Giggey, M.D., Marcy, G.J., and O'Brien, M.A., "Performance of Biofilters at Two Agitated Bin Composting Facilities", Annual Meeting of the Air & Waste Management Association, Cincinnati, Ohio, June 1994

Giggey, M.D., Dwinal, C.A., Pinnette, J.R., and O'Brien, M.A., "Performance Testing of Biofilters in a Cold Climate", Proceedings, Water Environment Federation Specialty Conference on Odor and Volatile Organic Compound Emission Control, Jacksonville, Florida, April 24-27, 1994

Richardson, C.M., Durfee, D.D., Giggey, M.D. and Pinnette, J.R., "Permitting, Procurement, and Start-Up of an Innovative Agitated Bin Composting Facility", Annual Meeting of the New England Water Environment Association, Boston, Massachusetts, February 1994

Pinnette, J. R., Giggey, M.D., and Murphy, B., "Management of On-Site Sewage Disposal Systems and Septage Receiving through a Distributed Database System", presented at Water Environment Federation Specialty Conference on Computers in the Water Environment, Santa Clara, California, August 8-11, 1993

Facility Plan Evaluation, Plymouth, NH

Managed facility plan evaluation for the 0.75 MGD WWTF and agitated bin composting facility. Included evaluation of pumping flow to WWTF in Ashland.

Aeration System Blowers, Lewiston-Auburn Water Pollution Control Authority, Lewiston, ME

Oversaw replacement of the aeration system blowers at the WWTP. This \$600,000 project involved replacement of existing 200 hp positive displacement blower with new centrifuge blowers to alleviate vibration related problems. Also overseeing construction of a new finished product storage pad at the Authority's composting facility.

Wet Weather Flow Capacity, Lewiston-Auburn Water Pollution Control Authority, Lewiston, ME

Managed a variety of projects to increase the wet weather flow capacity at this 32-MGD peak flow wastewater treatment plant. Improvements include new raw influent pumps, a new energy dissipating inlet and peripheral baffles for the secondary clarifiers, and aeration basin improvements to implement the Selector-Contact Stabilization process which features an anaerobic selector. The project also included new dechlorination facilities.

Capital Improvement Plan, Yarmouth, ME

Managed evaluation to develop a capital improvement plan for this 1.3-MGD WWTF and aerated static pile composting facility. Also managed evaluation of regionalization option to expand collection system to serve North Yarmouth.

WWTF Upgrade, Manchester-by-the-Sea, MA

Designed instrumentation and odor control systems for upgrade of this 1.2-MGD treatment plant, located in sensitive downtown location.

WWTP Preliminary Design Report, Stonington, CT

Responsible for the review of the preliminary design report of improvements to two wastewater treatment plants to confirm technical approach and compliance with codes and standards.

Activated Sludge Secondary Treatment System Upgrade, Lewiston-Auburn Water Pollution Control Authority, Lewiston, ME

Assisted as owner's representative in the upgrading of its activated sludge secondary treatment system to fine bubble technology through a design-build procurement.

WWTP Phase II Improvements, Quonset Point, RI

Assisted in design of Phase II improvements to the wastewater treatment plant for the Rhode Island Port Authority. Also assisted in construction services for the Phase I improvements.

Westerly WWTP Expansion, Marlborough, MA

Assisted in design of modifications and expansion to the 2.9-MGD Westerly Wastewater Treatment Plant for the town. Prepared civil sheets including site and grading plan and hydraulic profile. Coordinated design efforts of all support

JEFFREY PINNETTE, PE

Senior Project Manager

Pinnette, J.R., Richardson, C.M., Giggey, M.D. and G.E. Hendry, "Moisture Control for a Bed Type Biofilter," presented at the New England Water Pollution Control Association, Boston, MA, January 25, 1993

Giggey, M.D., Pinnette, J.R. and B. Murphy, "Predicting Nitrogen Contamination of Groundwater from Unsewered Residential and Commercial Development," prepared for the 62nd Annual Conference of the Water Pollution Control Federation, San Francisco, CA, October 1989

Nelson, M.E., Horsley, S.W., Cambareri, T.C., Giggey, M.D., and Pinnette, J.R., "Predicting Nitrogen Concentrations in Ground Water -- An Analytical Model", presented at National Water Well Association Conference on Eastern Regional Ground Water Issues, Stamford, Connecticut, September 27-29, 1988

disciplines.

New Variable Speed Drives and Blowers, Metropolitan District Commission, Hartford, CT

Determined cost effectiveness of new variable speed drives and blowers at the WWTF.

Sludge Handling and Dewatering

Dewatering System and Siloxane Removal Upgrades, Lewiston-Auburn Water Pollution Control Authority, Lewiston, ME

Overseeing design of a new screw press dewatering system at LAWPCA WWTF as well as a new siloxane removal system for the biogas treatment train of the anaerobic digesters. Improvements are currently under construction.

Dewatering System Upgrades, Keene, NH

Overseeing upgrade to a new screw press dewatering system at Keene WWTF. Currently finalizing design for bidding.

Anaerobic Digester Heating Evaluation, Winnepesaukee River Basin Program, NH

Oversaw evaluation of heating system and heat balance at this 6.2-MGD facility.

Anaerobic Digester Mixer Replacement, Nashua, NH

Assisted with emergency replacement of main draft tube mixer for the primary egg shaped digester.

Dewatering System Improvements, Nashua, NH

Oversaw dewatering improvements including three new screw presses, new screw conveying system, and odor control improvements. This \$5 million project also includes a new mixing system for the secondary anaerobic digester at the WWTF.

Sludge Pumping Facilities, Lewiston-Auburn Water Pollution Control Authority, Lewiston, ME

Oversaw construction of improvements to the sludge pumping facilities and associated electrical feed and control systems as well as conversion to sodium hypochlorite for disinfection.

Phase I Centrifuge Dewatering Improvements, Manchester, NH

Oversaw the evaluation, design and construction of Phase I centrifuge dewatering improvements. This \$3 million project includes three centrifuges in a renovated dewatering area. The evaluation phase included a comprehensive assessment of sludge handling alternative including thickening, storage and dewatering improvements for WWTP with 34-MGD design average capacity. As part of the evaluation phase, centrifuge, BFP, and Fournier rotary press technologies were pilot tested.

Sludge Handling Evaluation, Torrington, CT

Managed evaluation of sludge handling at the wastewater treatment facility. Also, managed evaluation of odor control for emissions from sewer on Country Club Road.

Dewatering Evaluation, Nashua, NH

Managed trials of the FKC screw press for dewatering and stabilization to Class A standards at the Nashua Wastewater Treatment Facility.

Evaluation of Solids Handling Options, Bion Technologies

Evaluation of solids handling options for Bion© manure management system in swine and dairy applications.

Sludge Disposal Study, Somersworth, NH

Completed a sludge disposal study which included evaluation of sludge storage and dewatering options in addition to a variety of municipally-owned and private disposal alternatives.

Sludge Stabilization Evaluation, Natal, Brazil

Prepared evaluation of sludge stabilization and disposal/reuse options as part of a wastewater treatment facility plan for city of 670,000 people. Recommended plan is for anaerobic digestion and agricultural land application. Heat treatment will be used to generate a Class A product if necessary.

Sludge Handling Evaluation, Lebanon, NH

Oversaw evaluation of composting facility and other biosolids management options.

Sludge Management Cost Review, EPA

Reviewed EPA Sludge Management Cost Handbook.

Combined Sewer Overflow / Stormwater

Combined Sewer Overflow Master Plan, Kennebec Sanitary Treatment District, Waterville, ME

Prepared an update to combined sewer overflow master plan for KSTD including the city of Waterville, and the towns of Winslow, Fairfield, and Benton.

WWTF Capacity Evaluation, Greater Lawrence Sanitary District, North Andover, MA

As a subconsultant, responsible for evaluation of WWTF capacity and potential improvements as part of update of long-term control plan for abatement of combined sewer overflows. Overall responsibilities included evaluation and implementation of CSO monitoring enhancements, primary treatment improvements, and optimization of secondary system capacity.

Stormwater Management Plan, Burlington, MA

Reviewed stormwater management plan using SWMM and TR20 to model runoff and transport through both storm sewers and open channels. Established the need for two retention dikes.

Beneficial Use of Residuals

Biosolids Drying Facility, New England Fertilizer Company / Massachusetts Water Resources Authority, Quincy, MA

Oversaw evaluation and replacement of drying train exhaust ductwork at the MWRA drying facility in Quincy. Provided assistance with dryer drum replacement, natural gas train upgrades and fire alarm upgrade.

Agitated Bin Composting Facility Improvements, Fairfield, CT

Technical advisor for evaluation and design of improvements to an IPS agitated bin composting facility.

New Composting Facility, Hooksett, NH

Technical advisor for preliminary design of new composting facility to serve Hooksett WWTF.

Site Assessment of Sludge Processing Facility, Synagro Northeast

Managed Phase II site assessment of private sludge processing facility.

Biosolids Drying Facility, New England Fertilizer Company / Greater Lawrence Sanitary District, North Andover, MA

Project manager for the permitting, design, and construction of a 38-dry-ton-per-day biosolids drying facility for the Greater Lawrence Sanitary District as part of a design-build-operate team led by New England Fertilizer Co. This \$12.5 million facility features triple-pass rotary dryers with exhaust treatment through a regenerative thermal oxidizer. The exhaust airflow rate is minimized by recirculating the majority of flow to the inlet of the dryer. Biogas from anaerobic digesters is the primary fuel for the dryers. The building exhaust is treated in a packed bed scrubber. This project included comprehensive air permitting for criteria and hazardous air pollutants. The facility began operating in late 2002.

Storage Facility Preliminary Design, Lewiston-Auburn Water Pollution Control Authority, Lewiston, ME

Assisted in the preliminary design of a storage facility for Class B alkaline-stabilized biosolids.

Sludge Handling Evaluation, Boothbay Harbor, ME

Involved in a recent evaluation of composting and other Class A stabilization options for the wastewater treatment facility.

Agitated Bin Facility, Santa Rosa, CA

Responsible for evaluation of options for increasing capacity and improving the efficiency of operations at an LMC agitated bin facility.

Tunnel Composting Facility, So. Middleborough, MA

For the Cranberry Ridge Composting Facility, permitting and design of a tunnel composting facility that will process up to 50,000 tons of biosolids per year. Oversaw site investigations.

Composting Facility Operations Assistance, Old Orchard Beach, ME

Provided operations assistance for an aerated static pile composting facility experiencing capacity and odor problems.

Windrow Composting Upgrade, Durham, NH

Carried out evaluation of upgrading options for windrow composting, processing manures from throughout the agricultural program and biowaste from some of the cafeterias at the University of New Hampshire.

Compost Facility Study, Lewiston-Auburn Water Pollution Control Authority, Lewiston, ME

Completed study of options to improve interior air quality and reduce overall cost of odor control at the compost facility. Also, completed evaluation of compost facility capacity to address increasing sludge disposal needs.

Biosolids Composting Facility Evaluation, Southern Maine

Involved in both the original evaluation and a recent updating of options for a regional biosolids composting facility for a group of southern Maine communities.

Fraser Paper Disposal Options, Madawaska, ME

Responsible for evaluation of disposal, incineration, and beneficial use options for wastewater treatment residuals (primary and secondary solids) from the Madawaska mill of Fraser Paper.

Cost Model for New Agitated Bin Composting Facility, Hartford, CT

As a subcontractor to R. Tardy & Associates, working on behalf of an insurance company, developed cost model for new agitated bin composting facility to replace the Hartford MDC facility damaged/destroyed by fire.

Funding and Regulatory Approval, East London, South Africa

Assisted the East London municipality in securing funding and regulatory approval for a composting pilot study for garden waste as well as food waste, abattoir waste and biosolids.

Agitated Bin Composting Facility, Rockland County, NY

Oversaw the design and construction of a 64-wet-ton-per-day agitated bin composting facility to serve five wastewater treatment plants in Rockland County, New York for Waste Management of New York/Synagro. This facility includes 9 bins with the 139,000 m³/hr exhaust air flow discharging to an enclosed biofilter with a packed bed scrubber for pretreatment.

Sludge Drying Facility, Fairhaven, MA

For Residual Technologies/Synagro, served as project manager for the preliminary design and permitting of a private 41-dry-ton-per-day sludge drying facility. Dryer exhaust was to be treated through thermal destruction in the dryer boiler. The building exhaust was to be treated in a packed bed scrubber. This project also included a comprehensive plan to address existing odor sources at the Fairhaven Water Pollution Control Facility and dispersion modeling to demonstrate compliance with the Massachusetts "Odor Policy Guidance"

document.

Biowaste Composting Evaluation, Lewiston, ME

Assisted in evaluation of separation and composting of organic waste (biowaste) from residential and commercial sources.

Compost Facility Planning, Sacramento, CA

Involved in facility planning for a composting facility to serve the Sacramento, California Regional County Sanitation District.

Biowaste Composting Facility, Stavanger, Norway

Assisted in the development of a 97-wet-ton-per-day biowaste composting facility to serve region of 230,000 people. Responsibilities included developing performance requirements for composting and odor control (biofilter) systems and overseeing pre-selection process for system suppliers.

Biowaste Processing Facility Design, Drammen, Norway

Assisted in development of design criteria for turnkey procurement of a 20,000-wet tons per year biowaste processing facility including odor control criteria. The first stage will be anaerobic digestion and will be followed by a composting step.

Agitated Bin Composting Facility, Kristiansand, Norway

Provided review and oversight for the planning and design of a 9-bay agitated bin composting facility for 15,000-wet-tons-per-year of biowaste, as well as 10,000-wet-tons-per-year of biosolids. Conducted an evaluation of odor control technology alternatives during the preliminary planning stage for the project. Provided training and operations assistance during start-up. Oversaw installation of 124,000-m³/hr. -enclosed biofilter for odor control. Providing on-going operational assistance.

Containerized Composting System Design and Permitting, Keene, NH

Managed the permitting and design of a containerized composting system with a biofilter for odor control.

Aerated Static Pile Composting Facility and Odor Control Design, Bar Harbor, ME

Provided operations and planning assistance for an aerated static pile composting facility and odor control design oversight for plant upgrade. Odor control systems included activated carbon systems, biofilters and activated sludge scrubbing.

Aerated Static Pile Composting Facility Design, Wolfeboro, NH

Responsible for the design of an aerated static pile composting facility.

Aeration Systems Design, Poland, ME

Completed design of aeration systems for Jolly Farmer, a bark mulch composting operation.

Biomass Ash Permitting and Marketing, Western Maine

Assisted in permitting and marketing of a biomass ash in beneficial use applications.

Agitated Bin Composting Facilities Study, BFI Organic, Unity, ME

Completed a value engineering analysis of agitated bin composting facilities. The study focused on process design, ventilation, odor control, and building materials. Completed preliminary design for two facilities in southern New England.

Penley Corner Sludge Composting Facility, Lewiston-Auburn Water Pollution Control Authority, Lewiston, ME

Lead Project Engineer for the design and construction of the Penley Corner Sludge Composting Facility in Auburn. This six bay agitated bin system and includes a 30,000 sq. ft. biofilter for odor control of the 72,000 cfm exhaust. Responsible for coordinating all building design disciplines, confirming compliance with all code requirements, preparation of facility O&M Manual, operations assistance during start-up, and performance testing.

Aerated Static Pile Composting Facility Evaluation, South Portland, ME

Involved in an evaluation of the aerated static pile composting facility with Dr. Melvin Finstein of Rutgers University.

Odor Control

Packed-Bed Scrubber Evaluation and Odor Control Operational Review, South Essex Sewer District, Salem, MA

Conducted an evaluation of mist carry over in the packed-bed scrubbers following an operational review of all of the odor control systems.

WPCF Odor Control Evaluation and Operational Assistance, Stamford, CT

Conducted an evaluation of four existing scrubber systems focusing on mist carry over, and leading to fan speed adjustments and new recirculation pumps. Also assisted with activated carbon system to treat exhaust from RTO bypass from sludge drying facility, and several smaller activated carbon systems.

Odor Control for WWTP Upgrade, Mattabassett District, Cromwell, CT

Assisting in evaluation and upgrades of odor control systems as part of major upgrade of WWTF.

WWTF Odor Evaluation, Naugatuck, CT

Oversaw an evaluation of the odor control needs to further reduce odor impacts at the Naugatuck Wastewater Treatment Facility. Project included odor characterization work, and evaluation of existing and new systems.

Odor Control Improvements, CSO Storage Tunnel, Narragansett Bay Commission, Providence, RI

Technical advisor for new 60,000 cfm activated carbon system for odor control of CSO storage tunnel serving Providence, RI.

Odor Control Improvements, New England Organics, Unity Township, ME

Technical advisor for preliminary design of odor control improvements at the 40,000-tpy Hawk Ridge Composting facility, which utilizes the Gicom tunnel composting system.

Agitated Bin Composting Facility, Coff's Harbour, NSW, Australia

Technical advisor for evaluation and design of a new agitated bin composting facility for biowaste with odor control provided through an open bed biofilter with a pretreatment scrubber for humidification and odor control.

Evaluation of Odor Control, Plymouth, NH

Managed the evaluation of odor control and septage receiving requirements at the WWTF, and provided assistance with septage receiving improvements.

Odor Control Evaluation, Merrimack, NH

Technical advisor for odor control evaluation of wastewater treatment and IPS agitated bin composting facility emissions.

Odor Control Evaluation, Farmington, CT

Served as technical advisor for this evaluation of potential odor control improvements at the Farmington Wastewater Treatment Facility. The evaluation included the headworks, primary clarifiers, roughing trickling filters, the activated sludge system, sludge storage, sludge dewatering, and an agitated bin composting facility.

Odor Control Evaluation, Acton, MA

Completed evaluation of odor control requirements for small, private wastewater treatment facility at Acorn Park.

Odor Control Evaluation, Torrington, Wyndham, and Killingly, CT

Evaluated odor control requirements as part of facility planning for treatment plants in each of these communities.

Biofilter O&M Assistance, Sanford, ME

Provided advice on biofilter O&M requirements for an industrial air quality control application for Cyro Industries.

Odor Control Improvements, Portland, ME

Technical advisor for Phase 1 odor control improvements at the Portland Water District's East End Wastewater Treatment Plant. Project included a detailed evaluation of alternatives. A two-stage packed-bed scrubber was selected for detailed design, and construction. The facilities will control odors from the headworks, grit chamber, primary clarifiers, and inlet and outlet channels, gravity thickener and sludge storage tanks.

Odor Control, Reedy Creek Improvement District, Orlando, FL

Participated as expert in rapid decision making action session to address odor problems from composting facility at Disney World.

WWTF Odor Evaluation, Manchester, NH

Managed an evaluation of the effectiveness of existing odor sources and options to further reduce odor impacts at the Manchester Wastewater Treatment Facility. Project included odor characterization work carried out by Odor Science & Engineering.

Odor Control Programs, Augusta, ME

Prepared odor control programs for the Inter-Community Trunk Line and Wastewater Treatment Plant of the Augusta Sanitary District. Analyzed the capacity of a pump station to meet additional industrial flow.

Septage

Interstate Septic Systems, Rockland, ME

Responsible for the permitting and design of a private septage pretreatment facility. This facility dewateres septage in a belt filter press and composts the resulting sludge cake in an agitated bin system. Exhaust air is treated by a biofilter. Providing on-going assistance monitoring odor emissions from the facility.

Septage Treatment Facility, Yarmouth, MA

Served as project engineer in facility planning, design and construction administration for the 110,000-GPD septage treatment facility. Responsible for process design and building layout of facility featuring an extensive septage pretreatment system, single stage nitrification/denitrification in an oxidation ditch, spray irrigation for tertiary treatment/disposal, agitated bin composting of sludge, (16 wet ton per day) and biofiltration for odor control of the completely enclosed facilities. In addition to process design, his responsibilities included preparing an in-vessel composting technology selection report, air quality discharge permitting for the 116,000 cfm exhaust stream, and developing a computerized database system for management of septage receiving and on site disposal systems, and preparation of the facility O&M manual.

Tri-Town Septage Treatment Facility Improvements, Orleans, MA

Assisted in design of improvements to the Tri-Town Septage Treatment Facility. Responsible for review to confirm compliance with standards, codes, and completeness.

Collection System and Treatment Plant Design Report, Falmouth, MA

Completed a design report for the collection system and treatment plant that focused on odor control, septage receiving and pretreatment.

Conceptual Design Report, New England Processors, Northern New England

Prepared a conceptual design report for a private facility in northern New England to pretreat primarily grease trap and grit interceptor pumpings.

Water Quality

WWTF Toxicity Reduction Evaluation, Rockland, ME

Oversaw toxicity reduction evaluation of arsenic in WWTF discharge. Participated in state stakeholders group.

Groundwater Nitrogen Loading Model, Yarmouth, MA

Developed a groundwater nitrogen loading model as part of an aquifer management plan for the town. Carried out a literature review of nitrogen

JEFFREY PINNETTE, PE

Senior Project Manager

loading models and parameters, and was involved with field studies of lawn fertilization practices.

Water Quality and Discharge Assessment, Groton, CT

Assessed water quality and impact of discharges on Thames River for Pfizer, Inc. Completed near-field modeling of main Pfizer outfall using DFSR and DKPLM.

Secondary Treatment Waiver, Newport, RI

Assisted in the preparation of a secondary treatment waiver for the city. Primarily involved with far-field modeling of East Passage of Narragansett Bay using CAFE and DISPER. Results of the hydrodynamic modeling were calibrated and verified with field data. Assisted in preparing plans and specifications for upgrade and expansion of the wastewater treatment plant. Assisted in preparing environmental impact document for a CSO facility.

Water Resources**Evaluation of the Flood Plain in the North Nashua River in the Vicinity of the Fitchburg Easterly WWTF, and Letter of Map Revision Submittal to FEMA, Fitchburg, MA**

Oversaw the re-assessment of the 100-year flood plain on the North Nashua River in the vicinity of the Fitchburg Easterly Wastewater Treatment Facility. The results were used as the basis for a Letter of Map Revision submittal to FEMA.

Water**Water Supply, Treatment and Distribution System, Readfield, ME**

Assisted in design of a water supply, treatment (for radon removal) and distribution system for the town.



THE CITY OF NASHUA

Division of Public Works

Parks & Recreation Department

"The Gate City"

Board of Public Works Meeting of July 26, 2016 Parks & Recreation Department

Agenda

- A. Motion:** To approve the purchase of a 2016 Toro Groundmaster 3505-D mower from Turf Products Corporation of Enfield, CT for the price of \$27,626.76 pursuant to the Massachusetts State Contract #FAC71. Funding will be through Department: 177 Parks and Recreation; Fund: Trust; Activity: CERF.
- B. Motion:** To approve the purchase of roadside and trail mowing services from the low bidder Kohl Farms of Chelmsford, MA for an amount not to exceed \$26,000. Funding for this purchase will be from Department: 177 Parks and Recreation; Funds: General and Trust; Account Category: 53 Professional Services \$22,000, Department: 169 Wastewater; Fund: Wastewater; Account Category: 55 Other Purchased Services \$4,000.
- C. Motion:** To approve the purchase of Integration Carousel for the Legacy Playground at Labine Park from the sole source vendor Goric Marketing Group USA of Belmont, MA in the amount of \$50,715. Funding will be \$50,715 through Department: 177 Parks and Recreation; Fund: General; Activity: Labine Park.

City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: July 26, 2016
From: Nick Caggiano, Superintendent
Parks and Recreation Department
Re: Purchase of a Toro Groundmaster 3505-D Mower.

A. Motion: To approve the purchase of a 2016 Toro Groundmaster 3505-D mower from Turf Products Corporation of Enfield, CT for the price of \$27,626.76 pursuant to the Massachusetts State Contract #FAC71. Funding will be through Department: 177 Parks and Recreation; Fund: Trust; Activity: CERF.

Attachments: Quote from TPC

Discussion: This scheduled purchase will replace the current Holman Stadium mower a, 2002 Toro 2300D reel mower. This mower was purchased used in 2004 and has serviced the stadium well. The mower has reached a point where the machine will not operate properly giving the field the proper cut it requires. The current mower will need a complete replacement of the cutting reels, bed knives, and hydraulic pump. This mower will be turned in as a trade in. The new mower will be a rotary mower with a 72 inch cut and will have a full roller assembly for stripping. The rotary style mower will allow the mower to be used at other venues for special events such as the Columbus Day Soccer Tournament.

This request is consistent with the City Capitol Equipment Reserve Fund (CERF) detailed schedule. The planned CERF request for FY17 was approved by the Board of Alderman on June 24, 2015 by R-15-142.

The Mower comes with a 2 year 1,500 hour warranty. The Superintendent and Fleet Manager both recommend this purchase.



turf products

157 Moody Rd, P.O.Box 1200 Enfield, Connecticut 06083
1-800-243-4355

For: City Of Nashua
Parks & Recreation Department
100 Concord Street
Nashua 03064



<u>Quote ID</u>	<u>Terms</u>
	Net 10 Prox.
June 16, 2016	

Page of

Nick Caggiano

Price are based Massachusetts Statewide Contracts #FAC71

PRICE QUOTATION

Qty	Model #	Description	Unit	Extended
1	30849	Groundsmaster 3505-D 2/WD Kubota 3 cylinder liquid cooled diesel 24.8 hp Width of cut 72" w/ 3 Contour plus 27" decks rear discharge and fuller roller for stripping.		\$27,530.71
1	30841	Work Light Kit		\$220.41
1	131-6691	SEAT COVER, LARGE		\$31.72
1	108-1462	BLADE SERVICE PACK, 27 IN		\$114.91
1	30058	MVP FILTER KIT-GM35XXD		\$78.84
1	30552	Universal Sunshade (Red)		\$650.17
				\$28,626.76
1		Trade In - Toro 2300D		(\$1,000.00)
				\$27,626.76



NOTE: Pricing is effective for 15 days unless indicated otherwise. Labor or applicable tax is not included unless noted otherwise. This quote is for the listed items only. Invoices from Turf Products are due and payable upon receipt and invoices will be subject to a finance charge if unpaid for 30 days, unless prior arrangements have been made.

Jeffrey A. Brooks SCPS
Cell 603-860-6839 or Fax 603-673-2939

Comments:

City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: July 26, 2016

From: Nicholas Caggiano - Superintendent
Parks and Recreation Department

Re: Roadside and trail mowing.

B. Motion: To approve the purchase of roadside and trail mowing services from the low bidder Kohl Farms of Chelmsford, MA for an amount not to exceed \$26,000. Funding for this purchase will be from Department: 177 Parks and Recreation; Funds: General and Trust; Account Category: 53 Professional Services \$22,000, Department: 169 Wastewater; Fund: Wastewater; Account Category: 55 Other Purchased Services \$4,000.

Attachments: Bid results

Discussion: The roadside and trail mowing was put out for bid. Six 8 vendors were sent the information. Only one bid was received for this work Kohl Farms was the low bidder at a rate of \$65 per hour. Kohl Farms has agreed to continue to hold their 2013 price of \$65 per hour for 2016. This work will include roadside mowing of overgrowth areas, intersection sight distance mowing as well as sidewalk, trail and bike path moving. There will also be maintenance mowing of the Mine Falls Park Canal and the levy system along the Merrimack River. This work will begin in Mid-September and will run through late October.



THE CITY OF NASHUA

Parks and Recreation Department

"The Gate City"

June 8, 2016

Request for Proposals

ROADSIDE AND TRAIL MOWING RFP0580-063016

The Nashua Parks and Recreation Department is taking proposals to do roadside and trail mowing in the City of Nashua. Work will be performed along roadsides, sidewalks, and trails throughout the city. There is approximately 3-4 weeks of work that will need to be done. Equipment may be stored at the Park and Recreation Department. This work is scheduled to start at the end of September.

INSTRUCTIONS:

Inquiries must be submitted in writing to:

Nick Caggiano
Parks and Recreation Superintendent
caggiano@nashuanh.gov

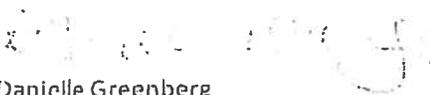
Matthew Eiserman
Foreman
eisermanm@nashuanh.gov

Proposals must be submitted on the attached Bid Form no later than 3:00 PM EST on Thursday, June 30th, 2016, c/o Central Purchasing Office, First Floor, Room 128, City Hall, 229 Main Street, Nashua NH, 03060. The City of Nashua may reject any or all of the proposals on any basis and without disclosure of a reason.

REQUIREMENTS:

Selected firm must provide proof of insurance to the City. Certificates of General Public and Automobile Liability insurance and Workers Compensation insurance countersigned by a New Hampshire resident agent must be furnished to the City Purchasing Department prior to commencement of activities on City property. The limits of General Liability must be \$1,000,000. Per occurrence, \$2,000,000 aggregate, City of Nashua additional insured. Motor Vehicle Liability, when applicable, is \$1,000,000 combined single limit, City of Nashua additional insured. Workers' Compensation according to State Statute. The City of Nashua requires thirty (30) days written notice of cancellation or material change in coverage. Equipment used must have current certifications and inspections.

Thank you,


Danielle Greenberg
Purchasing Agent II - City of Nashua
greenberdd@nashuanh.gov

1709 3rd floor
BPO 7/28

BID FORM

Firm Glen Kohl Farming and Contracting Corp

Address 26 Wildwood St Chelmsford MA 01824

Contact Glenn Phone 978 265 8012 Email KohlCorp@comcast.com

Equipment Description 2014 John Deere 6330 / 2015 McDaniel Roadside Mower

Hourly Rate 65 Daily Rate based on a 8 hr day 520⁰⁰

Equipment Description _____

Hourly Rate _____ Daily Rate based on a 8 hr day _____

Equipment Description _____

Hourly Rate _____ Daily Rate based on a 8 hr day _____



City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: July 26, 2016
From: Nicholas Caggiano - Superintendent
Parks and Recreation Department
Re: Purchase of an Integration Carousel for Labine Park.

C. Motion: To approve the purchase of Integration Carousel for the Legacy Playground at Labine Park from the sole source vendor Goric Marketing Group USA of Belmont, Massachusetts in the amount of \$50,715. Funding will be \$50,715 through Department 177 Parks and Recreation; Fund: General; Activity: Labine Park.

Attachments: Quotation

Discussion: The structure being purchased is based on the input from the Legacy Playground Group. The carousel was recommended by Jennifer Brooke of the Institute for Human Centered Design, as well as The Chamber of Commerce Chamber Leadership Group. The carousel will be the focal point of the new Legacy Playground and will be a first in NH. The purchased structure has a 16-20 week lead time which will require that the base be installed ahead of time. The playground construction has started and is scheduled for completion in early September. Goric is the sole distributor for the carousel. The pricing for the structure includes a 10 % municipal discount.

Based on the recommendations of the Design Group, and the Leadership Group it is the recommendation of the Park & Recreation Department to award this purchase to the **Goric Marketing Group of Belmont, MA. in the amount of \$50,715.**



THE CITY OF NASHUA

Division of Public Works

Parks & Recreation Department

"The Gate City"

July 21, 2016

To; Daniel Kooken Purchasing Manager

From; Nicholas Caggiano Superintendent Parks and Recreation

Subject; Integration Carousel Sole Source Purchase

The justification for the sole source purchase of the carousel is based on the input from the Legacy Playground Group. The selected carousel was also recommended by Jennifer Brooke of the Institute for Human Centered Design, as well as The Chamber of Commerce Chamber Leadership Group. The carousel will be the focal point of the new Legacy Playground and will be a first in NH.

Goric Marketing Group USA, Inc. is the sole distributor for the carousel. The pricing for the structure includes a 10 % municipal discount. The purchased structure has a 16-20 week lead time which will require that the base be installed ahead of time. The playground construction has started and is scheduled for completion in early September.

I would request that the City consider Goric Marketing Group USA, Inc. of Belmont, MA as a sole source vendor for this item.



Quote

Goric Marketing Group USA, Inc.
 464 Common St #148
 Belmont, MA 02478
 P: 617-744-0772
 F: 617-744-1037
<http://www.goric.com/>

Date : 07/05/2016
 Quote # : G07166
 Valid until : 12/31/2016

Sales Representative : Sarah
 Carrier
 Phone : 617-744-0772
 Email : sarah@goric.com

BILL TO : 100 Concord Street Nashua NH 03064 USA	SHIP TO :
Project : Legacy Playground at Labine Park Client : Nashua Parks and Recreation	Delivery Time : See note on last page Term : 50% deposit, balance upon delivery

Product Details	Qty	List Price	Total
Integration Carousel E5640030	1	\$ 47,115.00	\$ 47,115.00
Regular Price \$52,350. Discounted price includes 10% (\$5,235) discount.			
Freight - shipping and handling	1	\$ 3,600.00	\$ 3,600.00
		Sub Total	\$ 50,715.00
		Taxes Additional If Applicable	\$ 0.00
		Total Amount	\$ 50,715.00

...

To Order: Please send deposit payment, signed copy of this quote and purchase order (if applicable). Include billing and shipping address, contact names and phone numbers.

Customer name, print and sign

Terms and Conditions

Delivery Time: Commences from receipt of deposit payment and approved submittals.

Shipping and Handling: Unloading of materials at delivery is the responsibility of the customer. An accurate inventory should be taken at delivery and any missing or damaged pieces should be noted on the BOL and given to driver and reported to Goric. The truck driver will not unload equipment. Please contact fatima@goric.com if you need a quote for any special unloading requirements.

Payments: Make checks payable to Goric and mail to 464 Common St #148, Belmont, MA 02478. To wire payment or to send by express courier, contact fatima@goric.com for instructions.



THE CITY OF NASHUA

Division of Public Works

Solid Waste Department

"The Gate City"

Board of Public Works Meeting of July 26, 2016

Solid Waste Department

Agenda

- A. Motion:** To approve Sanborn Head and Associates of Concord, NH to perform engineering services at the City's landfills for FY17 not to exceed \$80,000. Funding will be through: Department: 168 Solid Waste; Fund: Solid Waste; Account Classification: 53 Professional and Technical Services.

City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: July 26, 2016

From: Jeff Lafleur, Superintendent
Solid Waste Department

Re: Landfill Engineering Services

A. Motion: To approve Sanborn Head and Associates of Concord, NH to perform engineering services at the City's landfills for FY17 not to exceed \$80,000. Funding will be through: Department: 168 Solid Waste; Fund: Solid Waste; Account Classification: 53 Professional and Technical Services.

Attachments: Sanborn Head and Associates proposed scope of services

Discussion: Sanborn Head and Associates (SHA) is the City's primary engineering consultant for landfill and solid waste related issues, including landfill gas management, design and construction; groundwater, air and solid waste permitting; capacity analyses; regulatory representation; and general landfill operations. They review and prepare documents required by the City's Title V air emission permit. They also prepare the annual Greenhouse Gas Emissions report that is required by the USEPA.

The City also utilizes SHAs Landfill Gas Management Suite (LFGMS) software program to assist us with monitoring, managing, operating the landfill gas collection and control system at the Four Hills Landfill. The data collected in LFGMS is included in tri-annual monitoring reports submitted to NHDES and is required by the Standard Operating Procedures/Enhanced Monitoring Procedures Plan approved by NHDES.

As such, they have a thorough understanding of the issues and requirements of the Four Hills facility and other closed City landfills, and provide consistent, high quality engineering and consulting services to the department in a timely manner. They have demonstrated superior abilities relative to regulatory reporting, permitting, design and construction oversight. Therefore, they are considered a sole source for these services.

Sanborn Head has provided the required certificate of insurance to accomplish these services.

The Solid Waste Superintendent and the Environmental Engineer recommend awarding Sanborn Head and Associates of Concord, NH the contract for these services.

Mr. Jeff Lafleur
Superintendent
Nashua Division of Public Works, Solid Waste Department
840 West Hollis Street
Nashua, NH 03062

July 15, 2016
File No. 3066.06
Sent via email

Re: Scope of Engineering Services – Fiscal Year 2017
City of Nashua Four Hills Landfill
Nashua, New Hampshire

Dear Jeff:

Sanborn, Head & Associates, Inc. (Sanborn Head) appreciates the opportunity to provide this scope of engineering services to the City of Nashua (City) relative to the active Four Hills Landfill during fiscal year (FY) 2017. The scope of services presented herein is based on communication with the City regarding services needed during FY 2017 as well as typical services provided by Sanborn Head over the past few years.

SCOPE OF ENGINEERING SERVICES

Task 1 Air Permit/Emissions Reporting and Related Services

During fiscal year 2017, Sanborn Head will provide the City with the following air-related services for the Four Hills Landfill:

- Review the semi-annual and annual air permit compliance reports prepared by the City or EPP Renewable Energy, LLC, if requested by the City;
- Provide support for compliance with the City's EMP/SOP;
- Provide support for compliance with the City's Title V Operating Permit;
- Prepare the annual Non-Methane Organic Compound report;
- Prepare the annual emissions inventory for landfill fugitives and the emergency generator;
- Prepare the federal greenhouse gas report; and
- Provide regulatory compliance support.

Task 2 Groundwater Reporting

We anticipate that Sanborn Head will assist the City with the following groundwater reporting services in FY 2017 for the Four Hills Landfill.

- Review the field groundwater sampling and laboratory analytical data collected and analyzed by others for the Four Hills Landfill (April and November 2016) and updating corresponding analytical tables;

- Address comments from the NHDES related to the 2015 Annual Report for the Four Hills Landfill; and
- Prepare the 2016 Annual Report for the Four Hills Landfill to be submitted to the NHDES in January 2017, as required in the June 15, 2016 Groundwater Management Permit (GWP-198403099-N-005).

Task 3 Annual Waste Capacity Evaluation

Landfills are dynamic and should be surveyed on a regular basis. An annual topographic survey can be used to calculate the in-place density of the waste mass and identify areas of the landfill that are not being filled as intended. The survey also provides documentation of significant changes to the overall site and can be used to evaluate waste settlement over time.

For this task, Sanborn Head will perform a waste capacity comparison for Phases I and II of the Landfill during FY 2017. We understand that the City will retain a licensed surveyor to prepare a topographic survey the Phases I and II. Our evaluation will include the following:

- Developing engineering drawings that compare the existing landfill topography (as provided to us in a recent topographic survey) to the currently permitted final landfill grades;
- Estimating the remaining disposal capacity (airspace) in terms of cubic yards; and
- Calculating the remaining life of the permitted landfill capacity based on the City's waste projections.

To accomplish the above, Sanborn Head assumes that the City will provide AutoCAD formatted drawings of the site topography, and that the City will provide recent waste receipts for Phases I and II.

Sanborn Head will transmit the results of our evaluation in a letter addressed to the City.

Task 4 Annual Financial Assurance Update

The NHDES Rules require landfill owners to submit financial assurance updates to NHDES every third calendar year in order to demonstrate that financial assurance for closure and long term monitoring and maintenance (LTMM) is provided for the Landfill (Env-Sw 1400). During the years in which a submittal to NHDES is not required, an updated closure cost estimate is required to be prepared and kept for the facility's records. We understand that the City last submitted an update to NHDES in May 2015, therefore the next submittal to NHDES will be required in May 2018. The update during FY 2017, to be prepared in May 2017, will be solely for the City's records.

This financial assurance demonstration includes preparation of opinions of closure and post-closure cost for the currently permitted areas (Phases I and II) and calculations to demonstrate that the City is setting aside sufficient funds for future closure and post-closure needs.

Sanborn Head will prepare the required opinions of cost using the required NHDES forms based on the permitted closure plan, currently available average unit costs for similar projects, current costs for monitoring services, published construction cost estimating guides, and our engineering judgment. We will estimate the remaining life of Phases I and II based on the latest survey update, and prepare sinking fund calculations using account balances provided to us, actual waste tonnage received at the Landfill, and the projected waste tonnage for the remaining estimated life of Phases I and II. The calculations will demonstrate that the balances for the closure and LTMM accounts are consistent with what was projected or provide amounts per ton that should be set aside going forward to provide sufficient funds at the expected date of closure.

Sanborn Head will prepare a letter addressed to the City that documents our evaluation, which will include NHDES Cost Estimate Forms for landfill closure and post-closure care, and sinking fund calculations.

Task 5 GCCS Related Services

Sanborn Head submitted a proposal to the City on April 21, 2016 for “Additional GCCS Related Services” as requested by the City. Subsequently, a purchase order was issued by the City for this work on July 13, 2016 (P.O. #127711). The scope of work under that agreement included the following:

- Preparation of an assessment of the Phases I and II Gas Collection & Control System (GCCS);
- Preparation of a conceptual design for a vertical landfill gas (LFG) well dewatering system;
- Preparation of construction documents for the next GCCS expansion in Phase II, Stage II; and
- Providing bid and construction phase services for the GCCS expansion in Phase II, Stage II.

As stated above, these services will be provided under a separate purchase order (P.O. #127711). Notwithstanding the separate GCCS project, this time and expense task will allow Sanborn Head to assist the City with GCCS related matters in FY 2017.

Task 6 General Engineering Services

Sanborn Head’s services under this task will be performed at the City’s request and involve routine matters of limited scope, such as attending meetings with regulators and providing design, operation, or air consultation relative the Landfill.

BUDGET ESTIMATE AND BASIS OF BILLINGS

The total estimated budget for this proposal is \$80,000 as itemized below:

Task	Task Description	Estimated Budget
1	Air Permit/Emissions Reporting and Related Services	\$27,000
2	Groundwater Reporting	\$13,500
3	Annual Waste Capacity Evaluation	\$4,500
4	Annual Financial Assurance Update	\$6,500
5	GCCS Related Services	\$10,500
6	General Engineering Services	\$18,000

We will invoice for our services based on actual accrued time and expenses in accordance with the enclosed Schedule of Fees. We will not perform services beyond those defined herein without first receiving written authorization from the City.

SCHEDULE

Sanborn Head is available to begin working on this project following written authorization to proceed from the City.

TERMS OF ENGAGEMENT

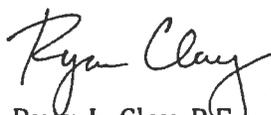
The terms of engagement are described in our Agreement with the City of Nashua, New Hampshire dated July 21, 2011.

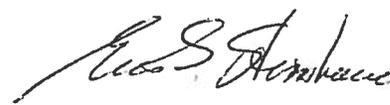
ACCEPTANCE

We understand that acceptance of this proposal will be provided in a City issued Purchase Order to Sanborn Head for these services.

Thank you for the opportunity to submit this scope of services. We look forward to working with you during FY 2017. Please contact us should you require additional information.

Very truly yours,
SANBORN, HEAD & ASSOCIATES, INC.


Ryan L. Clay, P.E.
Senior Project Engineer


Eric S. Steinhauser, P.E., CPESC, CPSWQ
Senior Project Director

RLC/HHL/ESS:rlc

Enclosed: Schedule of Fees

SANBORN, HEAD & ASSOCIATES, INC.
2016 Schedule of Fees
City of Nashua, New Hampshire

Senior Vice President	\$198
Vice President	\$188
Project Director	\$177
Senior Project Manager	\$151
Project Manager	\$141
Senior Engineer/Geologist	\$123
Project Engineer/Geologist	\$115
Engineer/Geologist	\$105
Supervising Technician	\$94
Senior Engineering Technician	\$85
Engineering Technician	\$79
Support Staff	\$68
Subcontractors and Outside Services	Cost plus 10%
Other Direct Expenses	Cost plus 10%

Hourly rates will be charged for time worked on the project and for the time required for travel between the office and the meeting or project site. Local travel will be at IRS allowed rates.

Overtime hours will be charged using the hourly rates listed above.

Hourly rates for expert witness testimony, including preparation time, and other special services such as corporate acquisition due diligence studies that generally require a dedicated commitment of senior staff, will be provided upon request.

Sanborn, Head & Associates, Inc. reserves the right to revise this Schedule of Fees annually.



THE CITY OF NASHUA

Division of Public Works

Administration

"The Gate City"

Board of Public Works Meeting of June 26, 2016 Administration Department

Agenda

- A. Motion:** To approve the relocation of the Collection System Operators positions and the Collection System Technicians to the Wastewater Department. Funding through Department: 169 Wastewater; Fund: Wastewater; Account Classification: 51 Salaries and Wages.
- B. Motion:** To approve the elimination of a Street Foreman Position at the Street Department, create a Wastewater Foreman position at the Wastewater Department, and assign Jason Hayden of Gilford, NH to the position of Wastewater Foreman, Wastewater Department. Starting salary for this position will be \$30.24 per hour for a yearly salary of \$62,908. Funding will be through: Department: 169 Wastewater Department; Fund: Wastewater; Account Classification: 51-Salaries & Wages.
- C. Motion:** To approve the relocation of the sculpture that was in front of Elm Street School to the City property adjacent to the entrance to the Four Hills Landfill.
- D. Informational:** Update on Burke Street Building
- E. Informational:** Director's Report

City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: July 26, 2016

From: Lisa Fauteux, Director
Administration Department

Re: Relocation of the Collections System staff to the Wastewater Department

A. Motion: To approve the relocation of the Collection System Operators positions and the Collection System Technicians to the Wastewater Department. Funding through Department: 169 Wastewater; Fund: Wastewater; Account Classification: 51 Salaries and Wages.

Discussion: The Collections System staff and Foreman were moved to the Street Department to provide a larger pool of staff for programs such as catch basin cleaning. While that has been the case, we also found that the Collections System staff and Foreman are also needed to assist with the plant and pump stations. The Collection Systems staff works very closely with the mechanics at the plant to maintain the pump stations. They also work with the new Wastewater Assistants at the Plant. The Foreman who oversees the Collections System staff provides a wealth of Wastewater experience and leadership that will be a huge asset to the plant. We will continue to utilize Divisional staff as needed to assist the Collections System staff. It is the recommendation of the Director, Division Operations Manager, Superintendent of Wastewater, Plant Operations Supervisor and both Wastewater Foremen to move the Collections System staff back to the Wastewater Plant.

City of Nashua, Public Works Division

To: Board of Public Works Meeting Date: July 26, 2016

From: Lisa Fauteux, Director
Administration Department

Re: Elimination of a Street Foreman Position at the Street Department and create a Wastewater Foreman position at the Wastewater Department, and assign Jason Hayden of Gilford, NH to the position of Wastewater Foreman, Wastewater Department

B. Motion: To approve the elimination of a Street Foreman Position at the Street Department, create a Wastewater Foreman position at the Wastewater Department, and assign Jason Hayden of Gilford, NH to the position of Wastewater Foreman, Wastewater Department. Starting salary for this position will be \$30.24 per hour for a yearly salary of \$62,908. Funding will be through: Department: 169 Wastewater Department; Fund: Wastewater; Account Classification: 51-Salaries & Wages.

Discussion: It is the recommendation of the Director and Operations Manager to move the collections staff and Foreman back to the Wastewater Department. This requires eliminating a Street Foreman and creating a Wastewater Foreman. It is also recommended that Jason Hayden continue in the position as Wastewater Foreman where he will share oversight of collection systems, operations and maintenance with the other Wastewater Foreman.

Board of Public Works Meeting of July 26, 2016

Department Report

Engineering Department

- **Broad Street Parkway.** The contractor on the Parkway South contract has prepared the roadway for final paving which is expected to occur in the coming weeks. On the North contract, Audley has completed most of the punch list. They are addressing minor sink holes in the sidewalk. On the E. D. Swett contract, for the River Bridge, the contractor has indicated that they will move forward with the claim but no action has been taken at this time. Legislation has been proposed for the sale of 7 parcel remnants. The City has made a re-payment of \$6.7 million to the NHDOT as reimbursement for ineligible right-of-way expenditures. The NHDOT has written as a result, that they will de-obligate \$8.5 million of federal funds originally earmarked for the Broad St Parkway. They will repurpose \$4.45 million without any match to a paving project as requested by the City. The balance will be reallocated to active BSP projects.
- **Burke Street Sewer Phase 2.** Utility connections for the 30 Burke St development is ongoing. Remaining street-wide restoration work includes sidewalks, final paving and striping to maintain the existing configuration. This work is scheduled to be completed this summer.
- **2015 Sewer Replacement.** Engineering is awaiting response from the contractor on a plan for the Temple Street sewer upgrades from Amory St to Commercial St.
- **2016 Sewer Replacement.** Temporary water line work and sewer work is ongoing with sewer work to follow soon. All work is expected to continue through the summer and fall.
- **Chestnut St Sewer.** Engineering is working on a project for Chestnut St south of Main St. The project consists of sewer rehab (by pipe lining) and road paving.
- **18 Shelly Dr Drainage Issue.** Engineering is working on a design to replace the worn out stone bedding drainage level spreader next to the property.
- **Infiltration/Inflow Analysis.** Flow metering ended on July 1, 2016. The City didn't receive required rainfall event during the spring metering period.
- **Collection Systems Operation and Maintenance Review.** Plans and documents are being transferred to CDM/Smith for their review. A meeting is being scheduled with the pertinent departments that are responsible for the financial, operation and maintenance and enforcement of the wastewater and drainage systems.
- **Bridge Inspections.** Engineering is working on a plan for repairs on the pedestrian bridge at the Pennichuck Elementary school (red listed with a status of 3).
- **Main Street Sidewalk Improvements.** The contract with Morin's Landscaping for brick work for the two remaining mid-block crosswalks on Block 3 and Block 4 went to the Finance Committee on July 6, 2016. The contract with Granite State Curbing Setter, Inc. for installation of granite curb to outline the proposed brick

crosswalks and at the median islands also went to Finance Committee on July 6, 2016.

- **Paving Management - Data Collection and Integration.** Integration of Cartegraph's Scenario Builder continues. Additional training was completed.
- **FY2016 Street Paving Program.** Paving work has commenced on 25 of 34 streets. Work includes milling, shimming, and casting adjustments.
- **FY2016 Asphalt Testing.** Testing will commence when the top course of pavement is put down. To date no streets have received the top course.
- **Merrimack River Levee.** A proposal has been requested to evaluate the repair of the slide gate that will not close.
- **Rail Trail Lighting.** A Request for Proposal was advertised on July 8, 2016, for vendors to submit bids for the supply of lighting assemblies including LED luminaires, concrete poles and appropriate mast arms for the Nashua Heritage Rail Trail Lighting project. This new lighting will completely replace the existing solar lighting along the trail between Main St. and Eaton St. Proposals are due on July 22, 2016
- **Southwest Recreation Park.** Engineering is working on the design of the fields and other facilities including driveway entrance, parking area and utilities for the proposed fields.
- **Whipple St Parking near Mine Falls Park.** With the UPS property being redeveloped, Engineering is discussing the possibility of leasing the proposed UPS parking lot from April to October on weekends. Engineering is also working on orientation and configuration of existing parking spaces on Whipple St. to increase the number of parking spaces.
- **Amherst Street Roadway Improvements – Charron Avenue to Diesel Road –** Continental Construction started work on July 18. They have begun the widening efforts on Charron Avenue. The utility relocations are also on-going new poles have been installed and now all of the existing lines must be relocated from the older poles before they can be removed.
- **Concord Street Crosswalks.** The contract between the City and Arlington Paving Co to install six crosswalks on Concord Street using the XD Pattern has been executed. The City is milling and paving the crosswalk areas for XD installation.
- **East Hollis Railroad Crossing.** The Amendment to the three-way Agreement between the City, NHDOT and Pan Am for the City to bear upfront materials cost requested by Pan Am has been executed.
- **LED Street Lighting Conversion.** It was decided to install the test fixtures in a neighborhood location. Five 3000K fixtures and five 4000K fixtures were installed and a decision as to which fixtures shall be installed is required from the City.
- **Site Development Review.** Engineering has reviewed the following Site Development and Subdivision plans: 3 Whipple Street, 62 Caldwell Road, 62 Bridge Street – Renaissance, 38 Balcom Street, 15 Colonial Avenue, 699 and 701 West Hollis Street, 673 West Hollis Street and 738 West Hollis Street.
- **Street Acceptance.** Engineering is working on the street acceptance of a portion of Cherrywood Dr, Moonstone Ct, Tamora Ct and Annabelle Ct, all related to the Gagnon Farms development.

- **Construction Inspection.** The inspectors have provided inspection for the following projects: Monis Farms Phase 2, Adelaide Ave and Pendant Ln, Deerwood Dr., Burke Street, 242 Main Street – CVS, Somerset Plaza, Gagnon Farms, paving program inspections and inspections for driveway, sewer service and gas service repairs throughout the city.
- **Engineering Survey.** Ongoing survey projects include: Survey for rail trail on Main St, survey for Spring Street crosswalk/sidewalk, Survey of Southwest Park, Survey for parking along Whipple Street, survey for paving program of Ledge Street School, Galway Street, Chestnut Street, survey of intersections on Daniel Webster Highway, and as-built survey of Concord Street sidewalks. The new Trimble GPS equipment is operating and starting to be utilized.
- **Street Opening Permits.** Engineering issued 93 Street Opening Permits and nine Permits to Encumber in June.
- **Sewer Permits.** Thirteen permits were issued and \$3,862.50 in fees was collected from June 1 to June 30, 2016.

Parks & Recreation Department

- **2016 Trips.** The June NYC trip was sold out. The group departed on Saturday June 11th. Everyone had a good time visiting the city.
- **Holman Stadium.** The 2016 Silver Knights season has been going very well. Playoffs will start in early August.
- **Stellos Stadium.** The stadium continues to have summer camp activity on a daily basis. We are looking forward to the start of football practice in late August. Look to the city website for the fall schedule.
- **Fourth of July.** Wonderful summer weather was in place for this year's 4th of July activities. Field day kicked off the day with over 2,500 participants followed by a night time crowd of 6,000 for the evening events and a very impressive fireworks show.
- **Summer Projects.** The staff has continued working on summer projects. Clean ups, repairs and other tasks are being taken care of.
- **Legacy Playground at Labine Park.** Construction on the park is scheduled to beginning on June 22nd the project should be completed in early September.
- **Walking Program.** The walking program continues through July. 20-25 residents join us on our walks. Refer to the website for times and locations.
- **Tree planting.** Tree work continues to be busy. Trees were pruned and two trees were planted on High Street last month.
- **Mine Falls Park.** The Mine Falls Advisory Committee held its June trail day on Saturday June 18th. Over 35 people volunteered for the day to help clean up the park. The Gate House was opened for tours during the event.
- **Summerfun.** Work continues on the 2016 season. Currently we have received over \$20,000 in committed sponsorship. The annual goal is to achieve \$15,000 in sponsorship. Calendars for this year's events are available.
- **Fairy Tale Festival.** The Festival was held on July 16th. This year's theme was Super Heroes. Thousands of children came to the event.

- **Shakespeare in the Park.** Shakespeare events are scheduled at Greeley Park July 23rd, 24th, 30th and 31st. Please come and enjoy a play.
- **Yankee Brass Band.** Will be playing tonight at 7:00 at Greeley Park.
- **Wheels and Wings.** This event will be held at the Nashua Airport on August 6th. We expect over 2,000 visitors at the airport.
- **Brewfest.** Tickets to the 2016 event are selling quickly please consider attending the August 20th event.
- **2016 Summer Camps.** This year's camps have started and most are almost full. Signups are coming in at a very nice pace. Look to the website for information regarding our current camps and new camps.
- **Pools.** The pools and splash pad are up and running. The pools should be closing around August 25th.

Solid Waste Department

- **Recyclables Shipped in June 2016.**
425 tons of single stream recycled materials
29 tons of electronic waste
9.3 tons textiles and books
650 gallons of waste oil
972 fluorescent bulbs
3 box rechargeable batteries
- **Recycling Bins & Carts.**
86 recycling carts were sold.
39 recycling bins were given to residents
46 Trash carts distributed
55 Trash carts repaired
- **Permits Sold for 2016.**
11582 Residential
597 Commercial
- **Curbside Collections and Landfill Drop Off.**
5816 tons MSW
619 tons C&D
552 tons of SYW

Street Department

- **July Street Department completed tasks.**
 - Over 120 Potholes filled at 95 sites.
 - 6 Crosswalks dugout and new ones were installed across Concord St.
 - 5 Sidewalks repaired.
 - 5 Sinkholes inspected or repaired.
 - 14 Catch Basins repaired.
 - 2 Catch Basins installed.
 - 2 Driveways repaired.

- 18 Lawns repaired.
- 1 Mailbox repaired.
- 2 Trenches patched.
- 2 Curbs were repaired.
- 9 Berms installed or repaired.
- The drainage problem near the pump station on Campton was fixed by digging out a swale to allow rain to drain off the end of the road.

- **Sweeper Program.**
 - Five sweepers are operating daily.
 - 3 special sweeping requests completed.

- **Asphalt Repairs.**
 - Paving repairs were made for 5 sinkholes that were filled.
 - The Mill and Fill program is ongoing and the crew recently completed the new crosswalks on Concord St.

- **Traffic**
 - Crosswalk painting is ongoing with 100 crosswalks completed in the last month.
 - Hi way safety continues to do thermoplast striping and has worked on the following streets: Spit Brook Rd, West Hollis St and DW Highway.
 - School zone sign problems were addressed at all of the City schools.
 - 21 Traffic Signal/Street sign problems were fixed including a major repair on Amherst St at Charron Ave. A traffic accident over the 4th of July weekend took down a mast arm and the signal lights around both jug handles.
 - During the day the crew has been addressing failed traffic signals and communication issues city-wide including: several Main St. intersections, Sunapee at Amherst St., Baldwin at Amherst St., Coliseum Ave at Broad St. and Tara Blvd at Spit Brook Rd.
 - Both Greely Park crosswalks were repainted for the summer.
 - 3 new signs were installed at Renaissance Park off of Water St.

- **Fleet**
 - Preventative maintenance and repair of the fleet is ongoing daily. Repairs and maintenance is performed with urgency to ensure the Streets and Parks work crews have the necessary tools and equipment for their projects.
 - Motion Link equipment installed in 79 fleet vehicles is undergoing testing and new equipment is being installed in the Street Dept. by the City IT staff.
 - Solid Waste equipment and vehicles are repaired daily with top priority.
 - State Inspection for FY17 is in full swing with 86 of the 143 vehicles in the fleet completed.
 - The new roll-off truck for the Solid Waste Department was inspected and lettered.
 - Welding repairs have been made to various pieces of equipment as needed.

- **Collections**
 - 4 Catch Basins cleaned.
 - 5 Catch Basin grates replaced.
 - 3 Sewer Manholes repaired.
 - 1 Sewer Manhole cover was replaced.
 - 6 Sewer backups addressed.
 - 1 Sewer serviced.
 - 1 Sewer possible sewer collapse was inspected.
 - 4 Video inspections done.
 - Crews assisted with urgent repairs to the pump station located off of Brinton Dr.

Wastewater Department

- **Pump Stations Upgrades Project.** The 30% design phase will be done by Woodard Curran. Contract documents are awaiting signatures before beginning the work.
- **SCADA Upgrades Project-Wet Weather Facility.** Most of the upgrades that can be made for now are complete. Awaiting a big enough storm so the facility can be tested.
- **SCADA Upgrades – Plant Wide.** Woodard and Curran have completed most of the SCADA design work including the TRM list (troubleshoot-repair-maintenance) and installation of wireless technology for using electronic tablets for recording of plant checks. The next phase will be document preparation and bidding of control panel upgrades.
- **Headworks Upgrade Project.** TBuck has mobilized several construction trailers on site. No work has started yet as the submittal review and equipment ordering continues.
- **Tank Drain and Scum System Upgrades project.** All work is complete and project is in warranty period.
- **Roof Replacement Project.** Awaiting a big enough rain storm to verify if there are roof leaks or leaks in the internal drains at several buildings.
- **Boilers.** Lemire Company has provided an estimate for additional work to insulate steam pipes. We are waiting for the processing of the costs for this additional work.
- **Laboratory.** The laboratory continues permit and process control testing on a daily basis. Results from the most recent round of proficiency testing came back and the lab continues its streak of passing all analytes with flying colors. Results for the Q2 bioassay came in with acceptable results. With the help of the Maintenance Department the lab has now incorporated its third and final new auto sampler into the daily sampling routine. The lab continues to participate in the Souhegan Watershed Association's sampling program. We are also preparing to participate in a dry weather sampling event this month for the United States Army Corps of Engineers' Merrimack Watershed Effluent Study.
- **Maintenance.** The Trestlebrook pump station repair was completed with the replacement of the volute. Primary basin number four was brought back online after mechanics removed an inlet valve and cleared a large amount of debris. Primary, waste activated sludge, and return activated sludge flowmeters were installed and.

The effluent sampler at chlorine contact chamber, which is the facility's main permit point, was replaced with a new one that was able to tie into the flow meter for the facility.

- **Operations.** Operations welcomed new operator Scott Law on July 11. He began his training with first shift operations and will continue this for the duration of his probation period. The operators have been taking tanks offline for process control, and cleaning them as part of our annual maintenance plan.
- **Cartegraph.** The Plant continues to use Cartegraph for entering work orders.
- **Safety & Training.** A plant wide safety roundtable was held so all safety issues and concerns could be listed, assigned and addressed.