



# PUBLIC WORKS DEPARTMENT

CITY OF PORTSMOUTH

680 Peverly Hill Road

Portsmouth N.H. 03801

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December 30, 2019

Mark Pollins  
Director of Water Enforcement  
USEPA  
OECA  
1200 Pennsylvania Ave NW  
MAIL CODE 2246A  
Washington, DC 20460

Re: Consent Decree 09-cv-283-PB  
Monthly Report on Compliance for November 2019  
City of Portsmouth, New Hampshire

Dear Mr. Pollins:

In accordance with Consent Decree 09-cv-283-PB, Section V, item paragraph 20, dated August 12, 2009 and as amended by Consent Decree Modification filed July 2, 2012 and approved by the Court on February 15, 2013 and as amended by Consent Decree Second Modification, Section III, item paragraph 6, filed on April 1, 2016 and approved by the Court on September 28, 2016, the City of Portsmouth is submitting this monthly report on compliance.

The Consent Decree Second Modification requires the filing of monthly reports as follows: Within 30 days after the end of each month, the City shall submit a written report to EPA, the State, and CLF for the preceding month that shall include a description or reporting of the following: i) status of required construction, including major work items completed in the preceding month; ii) projected work items to be undertaken in the next month; iii) project percent complete based on payments to Contractor for work completed; iv) project percent complete based on time elapsed; v) status of all required permit applications; vi) status of Consent Decree milestones including identifying any problems encountered or anticipated, together with the proposed or implemented solutions; and vii) the monthly average discharge concentrations of total nitrogen for the preceding month, as required in Paragraph 8.b.ii of the Second Modification.

The Consent Decree, First Modification and Second Modification along with such Monthly Reports on Compliance shall be posted on the City's internet site, and maintained accessible to the public online until termination of the Consent Decree. In addition to the submission of Reports on Compliance, the Parties will participate in quarterly meetings or conference calls, if scheduled by EPA, to review the City's compliance with the terms of the Consent Decree.

**i. Status of required construction including major work items completed in the preceding month**

Work completed by the Contractor in the month of **November 2019** is as follows:

- Completed demolition of the upper story of the existing Sludge Processing Building
- Completed checkout and inspection of the fire protection system in the BAF Building
- Completed placement of binder course pavement on a portion of the site

**ii. Projected work items to be undertaken in the next month**

Ongoing work by the Contractor through the month of **December 2019** includes the following:

- Continue minor electrical, HVAC, and plumbing punch list work at the Headworks Building
- Continue modifications (structural, mechanical process, HVAC, plumbing, roofing, and electrical) in the Grit Building
- Continue installation of the building finishes such as door hardware and signage in the Solids Building
- Continue wiring of the Motor Control Centers (MCC) and equipment in the BAF Building
- Continue electrical, plumbing, and HVAC work in the BAF Building and Solids Building
- Continue testing and startup of process piping, valves, instruments, and equipment in the BAF Building
- Continue finish interior painting in the BAF Building
- Continue installation of stairs, railings and ladders in the BAF Building
- Continue integration of the BAF control system with the plant's SCADA system
- Continue to export excavated materials and demolition materials off-site
- Continue excavation and installation of underground utilities between the Grit Building, Solids Building, and BAF Building
- Continue installation of the mechanism in Gravity Thickener No. 2 and repairs to the mechanism for Gravity Thickener No. 1
- Continue scum pump installation in the scum wells for the primary clarifiers and gravity thickeners
- Continue selective demolition of structures and equipment in the existing Sludge Processing Building
- Continue PCB abatement in the existing Sludge Processing Building
- Begin selective demolition and repairs in the Chlorine Contact Tanks

Projected work to be completed by the Contractor in the month of **December 2019** includes the following:

- Complete installation of an additional pipe support for the 48 inch Backwash piping in the BAF Building
- Complete installation and startup of the sump pump system in the BAF Building
- Complete repairs to Gravity Thickener No.1 including vendor checkout
- Complete installation of personnel lockers in the Solids Building

iii. **Project percent complete based on payments to Contractor for work completed**

The following table provides a summary of the Contractor's requests for payment, and the resulting percent complete:

|                                |                        |
|--------------------------------|------------------------|
| Original Contract Value        | 72,785,545.00          |
| Change Order 1 – January 2017  | 367,290.42             |
| Change Order 2 – May 2017      | 546,722.46             |
| Change Order 3 – August 2017   | 93,838.31              |
| Change Order 4 – December 2017 | 162,869.20             |
| Change Order 5 – May 2018      | 249,828.16             |
| Change Order 6 – December 2018 | 292,031.11             |
| Change Order 7 – April 2019    | 169,138.30             |
| Change Order 8 – October 2019  | 112,659.75             |
| <b>Contract Value Total</b>    | <b>\$74,779,922.71</b> |

| Payment Application No. | Work Conducted Through | Amount         | Payment Application No.<br>(continued) | Work Conducted Through<br>(continued) | Amount         | Cumulative Amount | % Complete Based on Contract Value Total |
|-------------------------|------------------------|----------------|--|---------------------------------------|----------------|-------------------|--|
| 1                       | 09/30/2016             | \$1,393,500.00 | 21                                     | 05/30/2018                            | \$1,428,583.12 |                   |  |
| 2                       | 10/31/2016             | \$2,855,100.00 | 22                                     | 06/30/2018                            | \$2,638,097.36 |                   |  |
| 3                       | 11/30/2016             | \$1,717,330.09 | 23                                     | 07/31/2018                            | \$1,250,957.12 |                   |  |
| 4                       | 12/31/2016             | \$1,374,011.19 | 24                                     | 08/31/2018                            | \$2,351,471.12 |                   |  |
| 5                       | 01/31/2017             | \$1,524,496.35 | 25                                     | 09/30/2018                            | \$1,402,132.42 |                   |  |
| 6                       | 02/28/2017             | \$1,327,078.04 | 26                                     | 10/31/2018                            | \$1,382,568.22 |                   |  |
| 7                       | 03/31/2017             | \$2,767,152.62 | 27                                     | 11/30/2018                            | \$1,655,719.55 |                   |  |
| 8                       | 04/30/2017             | \$2,449,209.70 | 28                                     | 12/31/2018                            | \$1,409,179.62 |                   |  |
| 9                       | 05/31/2017             | \$1,876,920.03 | 29                                     | 01/31/2019                            | \$906,134.53   |                   |  |
| 10                      | 06/30/2017             | \$2,345,659.10 | 30                                     | 02/28/2019                            | \$902,482.79   |                   |  |
| 11                      | 07/31/2017             | \$2,242,655.50 | 31                                     | 03/31/2019                            | \$1,198,046.56 |                   |  |
| 12                      | 08/31/2017             | \$4,028,468.63 | 32                                     | 04/30/2019                            | \$1,138,709.83 |                   |  |
| 13                      | 09/30/2017             | \$2,757,371.30 | 33                                     | 05/31/2019                            | \$990,898.97   |                   |  |
| 14                      | 10/31/2017             | \$2,306,338.15 | 34                                     | 06/30/2019                            | \$1,112,297.85 |                   |  |
| 15                      | 11/30/2017             | \$1,884,478.12 | 35                                     | 07/31/2019                            | \$862,001.79   |                   |  |
| 16                      | 12/31/2017             | \$2,151,295.60 | 36                                     | 08/31/2019                            | \$1,068,359.68 |                   |  |
| 17                      | 01/31/2018             | \$1,621,113.58 | 37                                     | 09/30/2019                            | \$763,764.66   |                   |  |
| 18                      | 02/28/2018             | \$1,218,795.24 | 38                                     | 10/31/2019                            | \$1,151,181.27 |                   |  |
| 19                      | 03/31/2018             | \$1,737,412.52 | 39                                     | 11/30/2019                            | 1,953,458.46   |                   |  |
| 20                      | 04/30/2018             | \$1,546,079.40 |  |                                       |                |                   |  |
|                         |                        |                |  |                                       |                | \$66,690,510.08   | 89.18%                                   |

## **Project percent complete based on time elapsed**

The contract time to the EPA required milestone for the BAF treatment system completion is 1186 calendar days. The total value of the contract (item iii) is based on the City's contractual milestone for project substantial completion is 1398 calendar days.

The project is 97.5%\* complete based on the BAF treatment system completion as of November 30, 2019 and 82.7% complete based on project substantial completion. \*Note: the above calculation for BAF treatment system completion is based on the original contract date of December 1, 2019. See Section V of this report for a list of contractual dates.

The project substantial completion date was extended by 30 days by the execution of Change Order #7. No Consent Decree milestone dates are affected by this change.

### **iv. Status of all required permit applications**

There are no pending permit applications.

### **v. Status of Consent Decree milestones including identifying any problems encountered or anticipated, together with the proposed or implemented solutions**

The construction contract with Methuen Construction Company, Inc. was executed on August 25, 2016. A summary of all milestones required by the Consent Decree Second Modification is provided below.

| <b>Milestone</b>  | <b>Date</b>                                      | <b>Status</b>     |
|---|--|-------------------|
| Execute Contract to Construct Upgrades  | <del>July 1, 2016</del><br>September 1, 2016*    | August 25, 2016   |
| Submit Two Additional Milestones for EPA Review and Approval  | December 1, 2016                                 | November 29, 2016 |
| Additional Milestone 1: Transfer of the existing SCADA system to the new Headworks Building                   | November 21, 2017                                | October 18, 2017  |
| Additional Milestone 2: Startup and testing of the Secondary Influent Pump Station in the new Solids Building | May 9, 2019                                      | May 7, 2019       |
| BAF Substantial Completion  | <del>December 1, 2019</del><br>December 31, 2019 | Pending**         |
| Achieve Compliance with NPDES Permit Limits   | April 1, 2020                                    | On Schedule       |

\*At the request of the City of Portsmouth, all parties agreed that the Contract Execution Date could be revised to September 1, 2016 to allow more time for bidding and to accommodate the Portsmouth City Council's review of bargaining alternatives prior to contract execution. The Contractor's schedule for completion was reduced to accommodate the modified contract execution delay.

\*\*As of December 18, 2019 the City notified the EPA that the contractor would likely not meet the December 31<sup>st</sup> deadline. Further information will be provided in the December 2019 monthly report on compliance.

**vi. The monthly average discharge concentrations of total nitrogen for the preceding month, as required in Paragraph 8.b.ii of the Second Modification.**

The average concentration of effluent total nitrogen in the month of November 2019 was 21.6 mg/L TN. See attached report on page 12, which was submitted with the City's November 2019 Discharge Monitoring Report (DMR) for NPDES Permit NH0100234.

As requested by the EPA, Consent Decree Mitigations, as required in Section IV, Paragraph 8, of the Consent Decree Second Modification, will be outlined in this monthly report.

ATTACHMENT A: A summary of the City's mitigation initiatives is provided detailing the status of each initiative.

ATTACHMENT A1: A summary of the City's commitments to date as required in Paragraph 8.e., Water Quality and Ecosystem Health Project, of the Consent Decree Second Modification.

ATTACHMENT A2: Supplemental Compliance Plan Sewer Separation Projects per Consent Decree, Section IV, Paragraph 12.c. On January 24, 2018, EPA, with NHDES concurrence, approved the updated CSO Supplemental Compliance Plan and implementation schedule as contained in the plan.

These monthly construction reports are posted on the City's wastewater website at:

<https://www.cityofportsmouth.com/publicworks/wastewater/resources>.

As required by the Consent Decree:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Please contact me at (603) 766-1416 if you have any questions or require additional information.

Sincerely,



Peter H. Rice, P.E.  
Director of Public Works

cc: Solanch S. Pastrana-Del Valle, U.S. EPA Region 1  
Tracy L. Wood, NHDES Wastewater Engineering Bureau Administrator  
Allen Brooks, Esq., Department of Justice, Environmental Protection Bureau Chief  
Tonia Bandrowicz, Senior Enforcement Counsel, USEPA Region 1  
David Gordon, Esq., U.S. Department of Justice  
Tom Irwin, Esq., Conservation Law Foundation  
Karen S. Conard, Acting City Manager, City of Portsmouth  
Nancy Colbert Puff, Deputy City Manager  
Suzanne Woodland, Deputy City Attorney  
Brian Goetz, Deputy Director of Public Works  
Terry Desmarais, City Engineer

## ATTACHMENT A: MITIGATION

This document summarizes the City's mitigation initiatives as required in Section IV, Paragraph 8, of the Consent Decree Second Modification.

- a) Interim Enhanced Primary Treatment: Perform full scale piloting of alternative coagulant chemicals to see if settling performance can be improved.

|  |                   |
|--|-------------------|
| <i>Current Status:</i>   | <i>Completed:</i> |
| COMPLETED  | JANUARY 9, 2018   |
| <i>Comments:</i>   |                   |
| EPA issued letter of approval to the City on January 9, 2018.<br>Documents are available on the City's wastewater and sewer web page:<br><a href="https://www.cityofportsmouth.com/publicworks/wastewater/resources">https://www.cityofportsmouth.com/publicworks/wastewater/resources</a> |                   |

- b) Nitrogen Removal: For a five-year period, commencing June 1, 2020 achieve specific seasonal average total nitrogen effluent concentrations and monthly average total nitrogen effluent concentrations for the Peirce Island WWTF with the upgrade.

|  |                                     |
|--|-------------------------------------|
| <i>Current Status:</i>   | <i>Anticipated Completion Date:</i> |
| TREATMENT FACILITY UNDER CONSTRUCTION  | NOTED ABOVE                         |
| <i>Comments:</i>   |                                     |
| A summary for this item is not necessary until the new Biological Aerated Filter (BAF) system construction is completed and fully operational. This is not required until April 1, 2020. |                                     |

- c) Stormwater Project: The City will implement a green infrastructure project(s) using innovative low-impact development approaches to significantly reduce stormwater pollution from one or more existing sites. Cost of project will be \$500,000.

|   |                                     |
|---|-------------------------------------|
| <i>Current Status:</i>  | <i>Anticipated Completion Date:</i> |
| ONGOING   | DECEMBER 31, 2020                   |
| <i>Comments:</i>  |                                     |
| In September, City staff and the design team met with representatives from CLF to review the preliminary design for the stormwater project located at 680 Peverly Hill Road. The project will abut the City's new multipurpose recreation fields and is intended to provide educational components as well as treatment. Permitting is well underway and bid documents are being developed. |                                     |
| Water quality sampling protocols have been established so that water quality can be measured before and after completion of the project.  |                                     |

- d) Sagamore Avenue Sewer Extension Project: Implement a sewer extension project to provide public sewer service to approximately 83 existing parcels adjacent to or near Sagamore Avenue with the intent to improve water quality in Sagamore Creek.

|   |   |
|---|---|
| <i>Current Status:</i>  | <i>Anticipated Completion Date:</i>     |
| FINAL DESIGN PHASE 1  | SUBSTANTIAL COMPLETION BY JUNE 30, 2022 |
| <i>Comments:</i>  |   |
| <p>The City executed a Design Phase Engineering Services contract with Wright-Pierce. A kickoff meeting was held on September 3, 2019 and a Public Information Meeting was held on September 4, 2019. Property owners have voiced concerns regarding elements of the project and this has required additional public process and slowed the design work. Additional Public Information Meetings were held on November 25, 2019 and December 9, 2019.</p> <p>It is anticipated that the City Council will review and take action on details of the project in the new year that may impact components of the design and construction contract documents.</p> |   |

- e) Water Quality and Ecosystem Health Project:

|   |                                     |
|---|-------------------------------------|
| <i>Current Status:</i>  | <i>Anticipated Completion Date:</i> |
| ONGOING   | N/A                                 |
| <i>Comments:</i>  |                                     |
| <p>The City of Portsmouth has continued to coordinate with members of Great Bay 2020 and CLF regarding funding commitments for 2019. Expenditures and the current list of commitments are documented on Attachment A1.</p> <p><b>ATTACHMENT A1</b> details financial commitments.</p> |                                     |



## ATTACHMENT A1: WATER QUALITY AND ECOSYSTEM HEALTH PROJECTS

This document summarizes payments made for the City's obligations under the Consent Decree Second Modified (No. 09-cv-283-PB), Paragraph 8.e. This item requires a contribution of \$500,000 over a period of five years to support water quality and ecosystem health efforts related to the Great Bay Estuary.

| Projects   | Vendor/Agent   | Status              | Payment Date           | Payment Total        |
|--|--|---------------------|------------------------|----------------------|
| Great Bay Monitoring Collaborative   | UNH  | Paid                | 08/17/2016             | 5,000.00             |
| Sagamore Creek water quality monitoring project                                  | FB Environmental Assoc.                              | Executed 08/21/2017 | Monthly Invoicing      | 47,798.00            |
| Sagamore Creek VRAP water quality samples  | CLF / VRAP / NH Public Health Labs                   | Paid                | 02/13/2018             | 261.00               |
| Teachers on the Estuary (TOTE)   | Great Bay Stewards                                   | Paid                | 09/15/2017             | 7,000.00             |
| Public outreach/education work   | The Nature Conservancy                               | Paid                | 09/15/2017             | 14,000.00            |
| Oyster Shell Recycling   | CCA NH   | Paid                | 10/20/2017             | 4,000.00             |
| Great Bay Estuary Monitoring Support   | UNH Sponsored Programs Admin                         | Paid                | 09/15/2017             | 6,000.00             |
| Oyster Larval Study: larval supply natural spat recruitment                      | CLF / UNH  | Paid                | 05/24/2018             | 8,000.00             |
| 2018 Sagamore Creek water quality monitoring sampling (includes laboratory fees) | FB Environmental Assoc.                              | Executed 06/19/2018 | Intermittent Invoicing | *64,164.67           |
| Data Sonde purchase for Piscataqua Region Monitoring Collaborative               | UNH  | Paid                | 06/27/2018             | 20,000.00            |
| Teachers on the Estuary (TOTE)   | Great Bay Stewards                                   | Paid                | 07/26/2018             | 7,500.00             |
| Connect The Coast  | The Nature Conservancy                               | Paid                | 08/23/2018             | 11,000.00            |
| Great Bay Estuary clean-up events facilitated by Waterkeeper                     | Great Bay Stewards                                   | Paid                | 08/30/2018             | 4,500.00             |
| Soak Up the Rain initiative (DES, Waterkeeper, Great Bay Stewards)               | Great Bay Stewards                                   | Paid                | 08/30/2018             | 6,000.00             |
| Seagrass Net   | CLF / UNH  | Paid                | 01/07/2019             | 30,000.00            |
| 2019 Sagamore Creek water quality monitoring project (includes laboratory fees)  | FB Environmental Assoc.                              | Executed 05/07/2019 | Intermittent Invoicing | 64,590.00            |
| Teachers on the Estuary (TOTE)   | Great Bay Stewards                                   | Paid                | 04/24/2019             | 7,500.00             |
| Comprehensive Coastal Conservation Plan  | The Nature Conservancy                               | Paid                | 10/22/2019             | 10,000.00            |
| Citizen Science Seaweed Monitoring   | UNH   PREP (Piscataqua Region Estuaries Partnership) | Paid                | 05/14/2019             | 7,500.00             |
| Middle/High School Estuary Intensive   | Great Bay Stewards                                   | Paid                | 05/02/2019             | 4,000.00             |
| <b>TOTAL</b>   |  |                     |                        | <b>\$ 328,813.67</b> |

*\*Original contract amount was \$64,713.00 but laboratories fees were \$548.33 less than expected. Final project cost is \$64,164.67 as noted above.*

## ATTACHMENT A2: SEWER SEPARATION PROJECTS

This document identifies and summarizes six sewer separation projects and one infiltration and inflow project (Contract #1) approved by the EPA in a letter to the City dated January 24, 2018. EPA, with NHDES concurrence, approved the updated CSO Supplemental Compliance Plan and implementation schedule as contained in the plan. The City shall:

- complete the six sewer separation projects and the Contract No. 1 wastewater collection system rehabilitation projects by no later than October 2023;
- complete the LTCP update by no later than October 2025; and
- provide project status on all seven projects as part of the monthly reports on compliance it will be submitting pursuant to Paragraph 6.a. of the Consent Decree Second Modification.

### 1. FLEET STREET: COURT ST TO HANOVER ST & PORTIONS OF ADJACENT STREETS

| <i>Project Name:</i>  | <i>Current Status: (phase of work)</i> | <i>Anticipated Construction Completion Date:</i> |
|---|--|--|
| FLEET ST  | PRELIMINARY DESIGN                     | TBD  |
| <i>Comments:</i>  |  |  |
| The City is negotiating the scope and budget for the Design Phase Engineering Services contract with Underwood Engineers. |  |  |

### 2. PLEASANT STREET: AT THE INTERSECTION WITH COURT ST

| <i>Project Name:</i> | <i>Current Status: (phase of work)</i> | <i>Anticipated Construction Completion Date:</i> |
|----------------------|--|--|
| PLEASANT ST          | COMPLETED                              | NOVEMBER 2018                                    |

### 3. MCDONOUGH PHASE 3B: MCDONOUGH STREET FROM CORNWALL ST TO BREWSTER ST & LANGDON ST

| <i>Project Name:</i> | <i>Current Status: (phase of work)</i> | <i>Anticipated Construction Completion Date:</i> |
|----------------------|--|--|
| MCDONOUGH PH 3B      | COMPLETED                              | JUNE 2019  |

### 4. ISLINGTON STREET PHASE 1: COLUMBIA ST TO ROUTE 1 BYPASS OVERPASS

| <i>Project Name:</i>  | <i>Current Status: (phase of work)</i> | <i>Anticipated Construction Completion Date:</i> |
|---|--|--|
| ISLINGTON ST PH 1   | CONSTRUCTION                           | 2020   |
| <i>Comments:</i>  |  |  |
| Severino Trucking is under contract to construct the base bid portion of the project, which extends from the intersection with Route 1 Bypass to the intersection of Albany Street. Winter shutdown will take place from approximately December 2019 to April 2020. |  |  |
| The City will be requesting additional funding for this project through the Capital Improvement Plan (CIP) to extend construction from the intersection with Albany Street to Columbia Street.  |  |  |

5. MAPLEWOOD AVENUE: AT FAIRVIEW DR

| <i>Project Name:</i> | <i>Current Status: (phase of work)</i> | <i>Anticipated Construction Completion Date:</i> |
|----------------------|--|--|
| MAPLEWOOD AVE        | COMPLETED                              | MAY 2019   |

6. UNION STREET: MIDDLE ST TO STATE ST & SECTIONS OF COFFINS COURT & AUSTIN ST

| <i>Project Name:</i>  | <i>Current Status: (phase of work)</i> | <i>Anticipated Construction Completion Date:</i> |
|---|--|--|
| UNION ST  | ENGINEERING RFP IN DRAFT               | TBD  |
| <i>Comments:</i>  |  |  |
| Design Phase Engineering Services RFP is in draft and will be advertised as soon as possible. |  |  |

7. SEWER REHABILITATION PROJECT

| <i>Project Name:</i>  | <i>Current Status: (phase of work)</i> | <i>Anticipated Construction Completion Date:</i> |
|---|--|--|
| CONTRACT NO. 1  | DESIGN                                 | TBD  |
| <i>Comments:</i>  |  |  |
| The 60% preliminary design plans are currently under review by staff. |  |  |

**Peirce Island Effluent Nitrogen  
November 2019**

|            | 1003     | 99959                    | 99960                          | 99961        | 99962          |
|------------|----------|--------------------------|--------------------------------|--------------|----------------|
|            | Inf Flow | Effluent Ammonia<br>as N | Effluent Nitrite/Nitrate-<br>N | Effluent TKN | Total Nitrogen |
| Date       | MGD      | mg/l                     | mg/l                           | mg/l         | mg/l           |
| 11/1/2019  | 4.94     |                          |                                |              |                |
| 11/2/2019  | 4.10     |                          |                                |              |                |
| 11/3/2019  | 3.72     |                          |                                |              |                |
| 11/4/2019  | 3.48     |                          |                                |              |                |
| 11/5/2019  | 3.47     | 16.0                     | 1.0                            | 24.0         | 25.0           |
| 11/6/2019  | 3.26     | 20.0                     | 1.0                            | 23.0         | 24.0           |
| 11/7/2019  | 3.67     |                          |                                |              |                |
| 11/8/2019  | 3.53     |                          |                                |              |                |
| 11/9/2019  | 3.31     |                          |                                |              |                |
| 11/10/2019 | 3.09     |                          |                                |              |                |
| 11/11/2019 | 3.15     |                          |                                |              |                |
| 11/12/2019 | 3.20     | 20.0                     | 1.0                            | 22.0         | 23.0           |
| 11/13/2019 | 3.01     | 20.0                     | 1.0                            | 22.0         | 23.0           |
| 11/14/2019 | 2.93     |                          |                                |              |                |
| 11/15/2019 | 2.96     |                          |                                |              |                |
| 11/16/2019 | 2.80     |                          |                                |              |                |
| 11/17/2019 | 2.74     |                          |                                |              |                |
| 11/18/2019 | 3.45     |                          |                                |              |                |
| 11/19/2019 | 3.40     | 19.0                     | 1.0                            | 22.0         | 23.0           |
| 11/20/2019 | 3.38     | 19.0                     | 1.0                            | 21.0         | 22.0           |
| 11/21/2019 | 3.21     |                          |                                |              |                |
| 11/22/2019 | 3.18     |                          |                                |              |                |
| 11/23/2019 | 3.03     |                          |                                |              |                |
| 11/24/2019 | 5.08     |                          |                                |              |                |
| 11/25/2019 | 4.44     | 14.0                     | 1.0                            | 14.0         | 15.0           |
| 11/26/2019 | 4.05     | 13.0                     | 1.0                            | 17.0         | 18.0           |
| 11/27/2019 | 4.50     |                          |                                |              |                |
| 11/28/2019 | 4.66     |                          |                                |              |                |
| 11/29/2019 | 4.17     |                          |                                |              |                |
| 11/30/2019 | 3.83     |                          |                                |              |                |
| Minimum    | 2.74     | 13.0                     | 1.0                            | 14.0         | 15.0           |
| Maximum    | 5.08     | 20.0                     | 1.0                            | 24.0         | 25.0           |
| Average    | 3.59     | 17.6                     | 1.0                            | 20.6         | 21.6           |