

JOURNAL OF

**NEW HAMPSHIRE
WATER WORKS
ASSOCIATION**



NHWWA



VOLUME I 2019



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**Journal of
New Hampshire Water Works Association**

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November 1, 2018—October 31, 2019**

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Ian Rohrbacher, Rochester Public Works Department	2016-2017
John Lyons, Granite State Analytical Services, LLC	2017-2018

Water Works Superintendents and Other Officials

STATE OF NEW HAMPSHIRE

Town	System	Name
Alton	Alton Water Works	Courtney Mitchell
Andover	Andover Water Works	Todd Cartier
Antrim	Antrim Water Works	Matthew Miller
Ashland	Ashland Water Works	Russell Cross
Bartlett	Bartlett Village Precinct	Scott Hayes
Bartlett	Lower Bartlett Precinct	Gary Chandler
Bath	Bath Village Water Works	Timothy Bemis
Belmont	Belmont Water Works	Craig Clairmont
Bennington	Bennington Water Department	Matthew Miller
Berlin	Berlin Water Works	Craig Carrigan
Bethlehem	Bethlehem Village District	Terence Welch
Boscawen	Penacook-Boscawen Water	Bernie Rousseau
Bow	Bow Municipal Water System	Eric Burkett
Brentwood	Rockingham County Home	Tom Schulte
Bristol	Bristol Water Works	Jeffrey Chartier
Campton	Campton Village Precinct	Peter Vaillancourt
Campton	Waterville Estates Village District	Corey Smith
Canaan	Canaan Water Department	John Coffey
Carroll	Carroll Water Works	Scott Sonia
Carroll	Rosebrook Water System	David Candeias
Charlestown	Charlestown Water Works	Dave Duquette
Claremont	Claremont Water Works	Robert Lauricella
Colebrook	Colebrook Water Works	Brian Sullivan
Concord	Concord Water Treatment Plant	Marco Philippon
Contoocook	Contoocook Water Precinct	Charles Damour
Conway	Conway Village Fire Precinct	Gregg Quint
Conway	N. Conway Water District	Jason Gagnon
Derry	Derry Water Works	Thomas Carrier
Dover	Dover Water Works	John Storer
Durham	UNH/Durham Water Works	Wesley East
Enfield	Enfield Village Fire Precinct	James Taylor
Epping	Epping Water Works	Jim Pouilot
Epsom	Epsom Village District	Joseph Damour

Town	System	Name
Errol	Errol Water Works	Pierre Rousseau
Exeter	Exeter Water Works	Paul Roy
Farmington	Farmington Water Department	Charles Tiffany
Fitzwilliam	Fitzwilliam Village Water District	Joseph Damour
Francestown	Francestown Village Water	Dennis Orsi
Franconia	Franconia Water Works	Justin Benes
Franklin	Franklin Water Works	Brian Sullivan
Freedom	Freedom Water Precinct	Francis Lyons
Georges Mills	Sunapee Water Works	Dave Bailey
Gilford	Dockham Shores Estates	Justin Benes
Gilford	Gilford Village Water District	Norm Harris III
Gilford	Gunstock Acres	David Candeias
Goffstown	Goffstown Village Fire Precinct	Lee Minnich
Goffstown	Grasmere Village Water Precinct	John Foss
Gorham	Gorham Water Works	Jeff Tennis
Grantham	Village District of Eastman	Amy Lewis
Greenville	Greenville Water Works	Dave Brennan
Hampton	Aquarion Water Company	Carl McMorran
Hancock	Hancock Water Works	Matthew Miller
Hanover	Hanover Water Works	Dylan McDermott
Haverhill	Precinct of Haverhill Corner	Daniel Boutin
Haverhill	Woodsville Water & Light Precinct	Robert Fagnant
Haverhill	N. Haverhill Water & Light	Robert Fagnant
Henniker	Cogswell Springs Water Works	Norman Bumford
Hill	Hill Water Works	John Benham
Hillsborough	Hillsborough Water Works	Peter Mellen
Hillsborough	Emerald Lake Village District	Joseph Damour
Hinsdale	Hinsdale Water Works	Jack White
Hooksett	Hooksett Village Water Precinct	Michael Heidorn
Hooksett	Central Hooksett Water Precinct	Jay Smith
Hopkinton	Hopkinton Village Precinct	Joseph Damour
Hudson	Hudson Water Department	Adam Bertrand
Jackson	Jackson Water Works Company	Scott Hayes
Jaffrey	Jaffrey Water Works	Andrew Baranowski
Keene	Keene Water Works	Benjamin Crowder
Laconia	Laconia Water Works	Seth Nuttelman
Lancaster	Lancaster Water Works	Timmy Bilodeau
Lebanon	Lebanon Water Works	Scott Poirier

Town	System	Name
Lincoln	Lincoln Water Works	David Beaudin
Lisbon	Lisbon Village District	Robert Lauricella
Littleton	Littleton Water & Light	Tom Considine
Madison	Village District of Eidelweiss	Ronald Sandstrom
Manchester	Manchester Water Works	Phil Croasdale
Marlboro	Marlboro Water Works	Anthony Cavaliere
Meredith	Meredith Water Department	Courtney Mitchell
Meriden	Meriden Village Water District	Bill Taylor
Merrimack	Merrimack Village District	Ronald Miner, Jr.
Milford	Milford Water Utilities	Kevin Stetson
Milton	Milton Water District	Mark Badger
Monroe	Monroe Water Department	Robert Fagnant
Nashua	Pennichuck Water Works	Chris Countie
New Castle	New Castle Public Works	Steve Tabbutt
Newfields	Newfields Village Water & Sewer	Peter Hellfach
New Hampton	New Hampton Village Precinct	Joseph Powers
New London	New London/Springfield Water	Rob Thorp Jr.
Newmarket	Newmarket Water Works	Sean Grieg
Newport	Newport Water Department	Todd Cartier
Northumberland	Groveton Water System	Reginald Charron
Orford	Orford Village District	Norm Harris III
Ossipee	Ossipee Water Department	Wayne Eldridge
Pembroke	Pembroke Water Works	Matt Gagne
Peterborough	Peterborough Water Works	Rodney Bartlett
Pittsburg	Pittsburg Water District	Richard Sargent
Pittsfield	Pittsfield Aqueduct Company	Chris Countie
Plainfield	Plainfield Water District	Adam Lewis
Plymouth	Plymouth Village Water Works	John Crowley
Portsmouth	Portsmouth Water Works	Brian Goetz
Raymond	Raymond Water Works	Scott Keddy
Rochester	Rochester Water Works	Ian Rohrbacher
Rollinsford	Rollinsford Water District	Raymond McNeil
Rye	Rye Water District	Arik Jones
Salem	Salem Water Works	Fredrick Wallace
Seabrook	Seabrook Water Works	Curtis Slayton
Somersworth	Somersworth Water Works	Gregory Kirchofer
Stewartstown	W. Stewartstown Water Works	Wilman Allen
Stratford	N. Stratford Water	Carleton Harris

Town	System	Name
Sunapee	Sunapee Water Works	Dave Bailey
Swanzey	N. Swanzey Water & Fire Precinct	Sly Karasinski
Tamworth	Tamworth Water Works	Justin Benes
Tilton	Tilton/Northfield Water District	John Chase
Troy	Troy Water Works	Justin Frazier
Wakefield	Sanbornville Water Department	Mark Badger
Walpole	Walpole Water Department	Mark Houghton
Walpole	N. Walpole Village District	Robert McGuiirk
Warner	Warner Village Fire District	Joseph Damour
Waterville Valley	Waterville Valley Water	Robert Burhoe, Jr.
Whitefield	Whitefield Water	Fredrick Ingerson II
Wilton	Wilton Water Works	Michael Bergeron
Winchester	Winchester Water Works	Richard Meleski
Wolfeboro	Wolfeboro Water & Sewer	Janine Gillum
Woodstock	Pennichuck Water Service	Bernie Rousseau

Guy Beloin, CPA
Litchfield, NH 03052

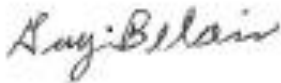
March 6, 2019

To the Board of Directors
New Hampshire Water Works Association, Inc.
18 N. Main St., Suite 308
Concord, NH 03301

This is to certify that I have compiled the statement of activities and cash and cash equivalents of the New Hampshire Water Works Association, Inc. for the year ended October 31, 2018.

I have reconciled the account balances to those presented in the cash disbursement and receipts journals.

I found the checkbook balances of the general and legislative accounts to agree with the bank statements as of October 31, 2018 and the balance shown in the savings accounts to agree with the certificate of deposits on file.

A handwritten signature in cursive script that reads "Guy Beloin".

Guy Beloin, CPA

NEW HAMPSHIRE WATER WORKS ASSOCIATION, INC.
STATEMENT OF ACTIVITIES
FOR THE YEAR ENDED OCTOBER 31, 2018

	General account	Legislative account	Combined
Revenue and support:			
NHWWA membership fees	\$ 18,131	\$ 26,180	\$ 44,311
State and local grants	32,625		32,625
Trade fair and exposition	43,559		43,559
Operator training seminar	31,400		31,400
Basic operator course	14,500		14,500
Technical seminars	11,090		11,090
Construction Day Field Trip/ NHDWW	3,085		3,085
Publications - NHWWA journal and newsletters	13,660		13,660
NEWWA Mission sharing	2,000		2,000
Interest and investment income	197	37	234
Total revenue and support	<u>170,247</u>	<u>26,217</u>	<u>196,464</u>
Expenses:			
Program services:			
Trainings and Seminars	31,452		31,452
Events and Activities	32,393		32,393
Publications	6,670		6,670
Drinking Water Festival	2,953		2,953
General:			
Salaries and wages and benefits	82,655	4,219	86,874
Payroll taxes	5,265	322	5,587
Rent	5,400		5,400
Office supplies, expense	9,667	240	9,907
Insurance	3,586		3,586
Professional services	1,575		1,575
Travel	817		817
Taxes, filing fees	1,114	50	1,164
Miscellaneous	1,610	310	1,920
Total program services and support	<u>185,157</u>	<u>5,141</u>	<u>190,298</u>
Net revenue and support	<u>\$ (14,910)</u>	<u>\$ 21,076</u>	<u>\$ 6,166</u>

Statement of cash balances:

Cash and cash equivalents, beginning, November 1, 2017	\$ 91,092
Add: net revenue and support	<u>6,166</u>
Cash and cash equivalents, ending, October 31, 2018	<u>\$ 97,258</u>

New Water Works Operators in 2018

Currently there are just under 1,000 operators of public water system treatment plants and distribution systems licensed by the State of New Hampshire. New Hampshire operators are required to renew their licenses every two years. 2019 is a renewal year. License renewal applications need to be submitted to NH Department of Environmental Services (NHDES) by December 31, 2019. Acceptable Criteria for Drinking Water Operator Training Contact Hours can be found on the NHDES website, www.des.nh.gov, on the Water Works Operator Certification Program page, under the category for Training.

Operators renew their certification by obtaining continuing education units (CEU's). New Hampshire Water Works Association (NHWWA) provides its members, and all who are interested, an opportunity to obtain CEU's by attending training sessions throughout the year. CEU's can be obtained by attending NHWWA technical meetings, management seminars, Construction Day, the Drinking Water Exposition & Trade Show, operator trainings, and other special events. These programs offer a variety of technical, operational, managerial and safety training.

The following individuals are those who were newly certified by examination or reciprocity in 2018 and those who advanced in their Treatment and/or Distribution grade.

Combined Distribution and Treatment C1A

Luis A. Armas	Andrew C. Fulton	Samuel C. Pitre
Andrew C. Benton	Margaret A. Harper	Kenneth B. Rota
Jason A. Bergeron	Sonya L. Hazen	Mathew J. Roy
Eric Bouchard	Jon B. Hendrick	Philip M. Sausville
Allen J. Brill	David K. Hennessey	Megan Scanlon
Robert G. Burdick	John E. Herbst	Sandon M. Sierad
Martin P. Carney	Joel R. Jewell	Suzanne M. Smith
Ryan D. Casey	John W. Kamb	Bradley K. Swan
Ian S. Chase	Kathy R. Kelley	Gary D. Swanson
Rachel E. Cress	Brian F. Kenney	Ricky J. Tyrala
Kevin R. Daley	David D. Labelle	Scott E. Venti
Jonathan M. Dash	David G. MacVane	Stephen M. Wentworth
Jeffrey A. Desrosiers	Harold J. Morse	
Elvis Z. Dhima	Paul M. Normandin	
Dani J. Emery	Amber M. Perry	

Distribution Grade I

Timothy Alberts	Justin F. Kimball	Jeffrey A. St. Jean
Charles A. Barry	Mia M. Lee	Jacob M. Valley
Michael E. Brooker	Mary F. Ley	Zachary F. Vigneault
Kelly R. Demers	Joseph R. Link	Todd M. Welch
Brian M. DeNutte	Brett A. Martin	Scott A. Witkowski
Nathan A. Domingues	Christopher C. McConnell	
David M. Flynn	Joshua S. Potter	
Jason Forbes	Ryan S. Provins	
Keegan C. Glidden	Robert J. Souza	
Todd Kilanski		

Treatment Grade I

David M. Acheson	Joseph R. Link	Zachary F. Vigneault
Nathan A. Domingues	Brett A. Martin	Christopher Welcome
Jason Forbes	Raymond A. McNeil	Scott A. Witkowski
Todd Kilanski	Joshua S. Potter	
Brian S. LeBlanc	Daniel J. Proulx	
Mia M. Lee	Sophie N. Ricard	
Mary F. Ley	Jacob M. Valley	

Distribution Grade II

Adam R. Carignan	Joseph R. Heaps	Charles R. Tiffany
Benjamin D. Crawford	Raymond A. McNeil	
Brian P. Croteau	Peter C. Nourse	

Treatment Grade II

Adam R. Carignan	Joseph R. Heaps	Charles R. Tiffany
Justin J. Collins	Keith J. Kazanowski	
Benjamin D. Crawford	David W. McNair	

Distribution Grade IV

David W. McNair

The History of Portsmouth's Water System: Introduction and Background

*by Brian F. Goetz, Deputy Director of Public Works, City of Portsmouth, NH
(previously published in the June 2018 edition of the APWA Reporter)*

Located on the eastern coast of New Hampshire with a protected harbor, the City of Portsmouth was first settled by Europeans in 1623. In its earliest days Portsmouth was the focal point for continued settlement of New Hampshire and the region. This continues to this day, as the Portsmouth Region is home to a bustling business economy, great indoor and outdoor entertainment venues, dozens of hotels, multiple award-winning restaurants and seven breweries. None of this would have been possible without a public water system.

By the late 1700's, with dense development in the downtown area and the need for water to serve businesses, the Portsmouth Aqueduct Company was formed in 1797 by an act of the state legislature, the first large public water system in New Hampshire. Soon after, new pipes and additional sources of supply were constructed to supplement the Sherburne and Fountainhead springs that came from what is now the Pease Tradeport area of the city. Delivery of this water was gravity fed for three miles through wooden logs fourteen feet in length and hollowed out to create a five inch diameter pipe. Water system records report that by 1821 "over 350 customers" were connected.



Section of wood pipe from the original Portsmouth water system.
Cover picture.

The water system expanded considerably in the mid 1800's to meet the demands of the growing community and businesses which included a thriving beer brewing industry. According to an October 2013 article in *New Hampshire Magazine*, "The Frank Jones Brewing Company was, in its time, almost unparalleled. By 1882, it was the largest ale producer in the country, brewing 150,000 barrels of ale by that year. The brand's popularity continued to climb and soon Frank Jones Brewing Company employed over 500 workers and saw its annual production skyrocket and peak at 250,000 barrels (equivalent to 62 million pints)." In order to meet this growing demand the Haven Springs property was purchased in 1870 and developed as a source of groundwater supply.

By the turn of the century, to better meet the needs of a growing community, the water system was purchased by the city in 1891. According to reports, "the purpose of establishing the city corporation was to promote the public good, enlarge the system, give better protection of forest and

assure an adequate supply of water.” The city wasted no time in raising funds to improve the sources of supply and to install new pipelines and a standpipe near the center of town. Additionally, to help reduce the water demand and better account for equitable water fees, the city began metering all water customers starting in 1911. By 1920, the entire water system had meters, with a total customer base of 3,073. Reports show that “consumption had decreased by 72 million galls in one year by installing meters.”



One of Portsmouth’s original water meters.

The city continued to grow and build out along with the surrounding communities. These communities, lacking their own public water systems, reached out to Portsmouth for water service. The towns of Greenland and Rye were added in the 1940’s. For additional supply to meet these demands a new well was constructed in Greenland.

In the 1950's, the United States Air Force created the Pease Air Base and took over a good portion of the water supplies that served the city's water system. After a considerable amount of effort to find enough groundwater to replace this supply it was determined that a reservoir in Madbury and surface water treatment facility would be constructed to meet the demand. The facility was equipped with the latest remote monitoring and control technology at the time, with relay-controlled operations, chart recorders and alarms. Water was then piped six miles to a booster station that fed water to the rest of Portsmouth. Additionally, service was expanded to the town of Newington. The Air Base was in operation until the early 1990's when it closed and the land was transferred back to State to create the Pease Tradeport. The water system was also transferred to the Tradeport and has been operated by the city since that time. Today, the Tradeport is now a prospering business and aviation industrial community. It is home to over 250 companies employing more than 9,525 people, and continues to steadily grow.

In comparison to other public water systems in the country, the combined Portsmouth and Pease water systems are not that large, serving a total customer base of 8,500. This is misleading in that many of these customers are multi-family and large commercial facilities which include two power plants, two gypsum manufacturing facilities, a large hospital, a large pharmaceutical manufacturer, numerous hotels, restaurants and, of course, seven breweries of varying size, which all require an ample supply of quality water daily.

Through the years, the water system staff have addressed the challenges of meeting the water quality and quantity needs of the Portsmouth water community through long range



Portsmouth's water system controls in 1968.

planning and the use of emerging technologies. Twenty years ago, the manual operations of the water system were upgraded to 24/7 online Supervisory Control and Data Acquisition technology (SCADA) that enabled for more efficient operations and water quality assurance. Soon after, the city implemented a comprehensive GIS and asset management program (electronic work order tracking) which helps guide system maintenance and long-range capital planning. Ten years ago, the city chose to convert all metered customers to a radio read system that allows for daily tracking of water use, monthly billing and customer accountability. In 2011, the city completed the replacement of the 50 year-old conventional water treatment facility constructed by the U.S. Air Force in 1957 with a LEED certified Dissolved Air Flotation (DAF) water treatment facility. Nevertheless, throughout this period of time, the city actively upgraded the aging underground infrastructure, with water main replacements averaging a replacement rate

of one percent per year since 1990. By utilizing a comprehensive rate model, which projects budget and revenue needs out five years, the city has been able to fund these upgrades in a timely and manageable manner.

The Pease water supply was recently impacted in 2014 by the discovery of Per- and Polyfluoroalkyl Substance (PFAS) compounds above the health standard in the Haven well. This was due to past use of firefighting foam by the U.S. Air Force. This well was immediately taken out of service and the loss of water from this source was supplemented by supply from the Portsmouth water system. The city then began work with the U.S. Air Force and regulators to remediate the contamination and bring the well back into service. This event also led to a considerable amount of public involvement, meetings and eventually, blood testing of affected water customers. The issue continues to evolve. Many more communities throughout the country have been impacted by PFAS after testing for this emerging contaminant. With continued improvements in laboratory detection limits, now down to the low parts-per-trillion, the concept of “zero” presence gets smaller and smaller every day. The city’s efforts to address this concern led staff to recommend piloting a new resin filter treatment technology to treat the water prior to running through activated carbon filters. Pilot test results showed improved filter performance and treatment; resins are being incorporated in the final design together with carbon filters. Construction of the final treatment system is anticipated to begin in early 2019.

The development of a comprehensive integrated water management plan by Portsmouth helped the system survive an extreme and historic summer drought in 2016. Utilizing

real-time and historical data from USGS stream gauges, NOAA weather stations, the drought monitor and the city's own SCADA water level monitoring data, surface supplies were reduced and groundwater supplies were increased. An extensive public outreach campaign and the implementation of water restrictions also cut water demand considerably.

Water efficiency has also been aggressively promoted by Portsmouth since 2006. The city enacted a tiered increasing block water user rate, went to monthly water billing, required new irrigation systems to comply with EPA WaterSense efficiency program guidelines, and in 2014, began offering rebates for low flow toilets and high efficiency washing machines. The success of these programs resulted in a twenty percent reduction of the average residential water consumption over this period of time. The city's commitment to sustainability also continues, with the installation of new stainless steel drinking water stations around town that include bottle filling faucets to promote the re-use of water containers rather than bottled water.



One of Portsmouth's recently installed drinking water stations.

The availability of quality drinking water certainly is the foundation of a livable and prosperous Portsmouth, from the 1700's to the present. The early water system managers likely never envisioned treating water to parts-per-trillion, but they did know that by implementing the latest technologies and management practices they would be able to produce enough quality water to brew the beer, because, as the American Water Works Association likes to say, “No Water, No Beer.”

Brian F. Goetz is the Deputy Director of Public Works for the City of Portsmouth.

Photo credits:

- 1968 water system controls - courtesy of the Portsmouth Athenaeum, Armsden Photograph Collection
- 2010 Portsmouth Aerial View - courtesy of Underwood Engineers
- All other photos – City of Portsmouth

Construction Field Day 2019

August 7, 2019

Four stops in the greater Portsmouth area.

Join us and see first hand Portsmouth’s water quality improvement projects.

Visit www.nhwwa.org for more information.



City of Portsmouth in 2010.

ADDRESSES OF MANUFACTURERS

COMPANY & ADDRESS	REPRESENTATIVE(S)	PHONE NUMBER
-------------------	-------------------	--------------

BAU/HOPKINS

310 South Street	Alan Hopkins	800-733-1860
Plainville, MA 02762	Bob Hopkins	
www.bauhopkins.com	Gene Weeks	

E. J. PRESCOTT, INC.

210 Sheep Davis Road	Don Proulx	603-224-9545
Concord, NH 03302-0337		
www.ejprescott.com		

EMERY & GARRETT GROUNDWATER INVESTIGATIONS, LLC

56 Main St., PO Box 1578	James M. Emery	603-279-4425
Meredith, NH 03253		(F) 603-279-8717
www.eggi.com		

EPPING WELL & PUMP CO., INC.

337 Calef Highway (Rte. 125)	Henry DeBoer	603-679-5299
Epping, NH 03042	Mark Perry	
www.eppingwell.com		

MAHER SERVICES

71 Concord St.	Peter Maher	978-664-9355
North Reading, MA 01864		(F) 978-664-9356
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