

JOURNAL OF THE
**NEW HAMPSHIRE
WATER WORKS
ASSOCIATION**



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SUMMER 2017



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Front Cover Photo: Bellamy Road drainage repair work being done in Dover, NH. Tom Ballestero from UNH addresses the Construction Day 2017 crowd.

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STATE OF NEW HAMPSHIRE

Town	System	Name
Alton	Alton Water Works	William Curtin
Amherst	Amherst Village District	Chris Countie
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	Spencer Richardson
Belmont	Belmont Water Works	Craig Clairmont
Bennington	Bennington Water Department	Jim Cruthers
Berlin	Berlin Water Works	Craig Carrigan
Bethlehem	Bethlehem Village District	Terence Welch
Boscawen	Penacook-Boscawen Water	Charles Damour
Bow	Bow Municipal Water System	Eric Burkett
Brentwood	Rockingham County Home	Tom Schulte
Bristol	Bristol Water Works	Jeffrey Chartier
Campton	Campton Village Precinct	Joseph Vaillancourt
Campton	Waterville Estates Village District	Corey Smith
Canaan	Canaan Water Department	John Coffey
Carroll	Carroll Water Works	Scott Sonia
Carroll	Rosebrook Water System	Nancy Oleson
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	Steve Clough
Conway	Conway Village Fire Precinct	Gregg Quint
N. Conway	N. Conway Water District	David Bernier
E. Conway	Fryeburg Maine Water Company	John Hastings
Derry	Derry Water Works	Thomas Carrier
Dover	Dover Water Works	John Storer
Durham	UNH/Durham Water Works	Wesley East
Enfield	Enfield Village Fire Precinct	Bruce Prior
Epping	Epping Water Works	Norman Dionne
Epsom	Epsom Village District	Joe Damour

Town	System	Name
Errol	Errol Water Works	Pierre Rousseau
Exeter	Exeter Water Works	Paul Roy
Farmington	Farmington Water Department	Dale Sprague
Fitzwilliam	Fitzwilliam Village Water District	Joseph Damour
Francestown	Francestown Village Water	Dennis Orsi
Franconia	Franconia Water Works	Tom Mason, Jr.
Franklin	Franklin Water Works	Brian Sullivan
Freedom	Freedom Water Precinct	Francis Lyons
Georges Mills	Sunapee Water Works	Dave Bailey
Gilford	Dockham Shores Estates	Colin Robertson
Gilford	Gilford Village Water District	Norm Harris III
Gilford	Gunstock Acres	Alex Crawshaw
Goffstown	Goffstown Village Fire Precinct	Lee Minnich
Goffstown	Grasmere Village Water Precinct	Keith Moore
Gorham	Gorham Water Works	Jeff Tennis
Grantham	Village District of Eastman	Tim Hicks
Greenville	Greenville Water Works	Dave Brennan
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Hancock	Hancock Water Works	Kurt Grasset
Hanover	Hanover Water Works	Todd Cartier
Haverhill	Haverhill Corner Precinct	Robert Fagnant
Haverhill	Woodsville Water & Light Precinct	Robert Fagnant
N. Haverhill	N. Haverhill Water & Light	Robert Fagnant
Henniker	Cogswell Springs Water Works	Norman Bumford
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Hillsborough	Hillsborough Water Works	Peter Mellen
Hillsborough	Emerald Lake Village District	Joe Damour
Hinsdale	Hinsdale Water Works	Dennis Nadeau
Hooksett	Hooksett Village Water Precinct	Michael Heidorn
Hooksett	Central Hooksett Water Precinct	Jay Smith
Hopkinton	Hopkinton Village Precinct	Joe Damour
Hudson	Pennichuck Water Works	Chris Countie
Jackson	Jackson Water Works Company	Scott Hayes
Jaffrey	Jaffrey Water Works	Tom Lambert
Keene	Keene Water Works	Benjamin Crowder
Laconia	Laconia Water Works	Seth Nuttelman
Lancaster	Lancaster Water Works	Timmy Bilodeau
Lebanon	Lebanon Water Works	Jim Angers

Town	System	Name
Lincoln	Lincoln Water Works	David Beaudin
Lisbon	Lisbon Village District	Terence Welch
Littleton	Littleton Water & Light	Tom Considine
Madison	Village District of Eidelweiss	Ronald Sandstrom
Manchester	Manchester Water Works	Phil Croasdale
Marlboro	Marlboro Water Works	Neil Goodell Jr.
Meredith	Meredith Water Department	Daniel Leonard
Meriden	Meriden Village Water District	Bill Taylor
Merrimack	Merrimack Village District	Ronald Miner, Jr.
Milford	Milford Water Utilities	Dave Boucher
Milton	Milton Water District	Mark Badger
Monroe	Monroe Water Department	Robert Fagnant
Nashua	Pennichuck Water Works	Chris Countie
New Castle	New Castle Public Works	Brian Goetz
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	Josh Worthen
Northumberland	Groveton Village Precinct	Reginald Charron
Orford	Orford Village District	Bill McKee
Center Ossipee	Ossipee Water Department	Wayne Eldridge
Pembroke	Pembroke Water Works	Matt Gagne
Peterborough	Peterborough Water Works	Nate Brown
Pittsburg	Pittsburg Water District	Richard Sargent
Pittsfield	Pittsfield Aqueduct Company	Curt Sheing
Plainfield	Plainfield Water District	Jim Angers
Plymouth	Plymouth Village Water Works	John Crowley
Portsmouth	Portsmouth Water Works	Brian Goetz
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Stewartstown	W. Stewartstown Water Works	Wilman Allen
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Town	System	Name
Sunapee	Sunapee Water Works	Dave Bailey
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Whitefield	Whitefield Village Precinct	Bill Thompson
Wilton	Wilton Water Works	Michael Bergeron
Winchester	Winchester Water Works	Richard Meleski
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Woodstock	Pennichuck Water Service	Bernie Rousseau

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June 28, 2018

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August 1, 2018

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October 25, 2018

Leveraging the Cloud - Hydrant and Valve Condition Assessment in Plymouth, NH

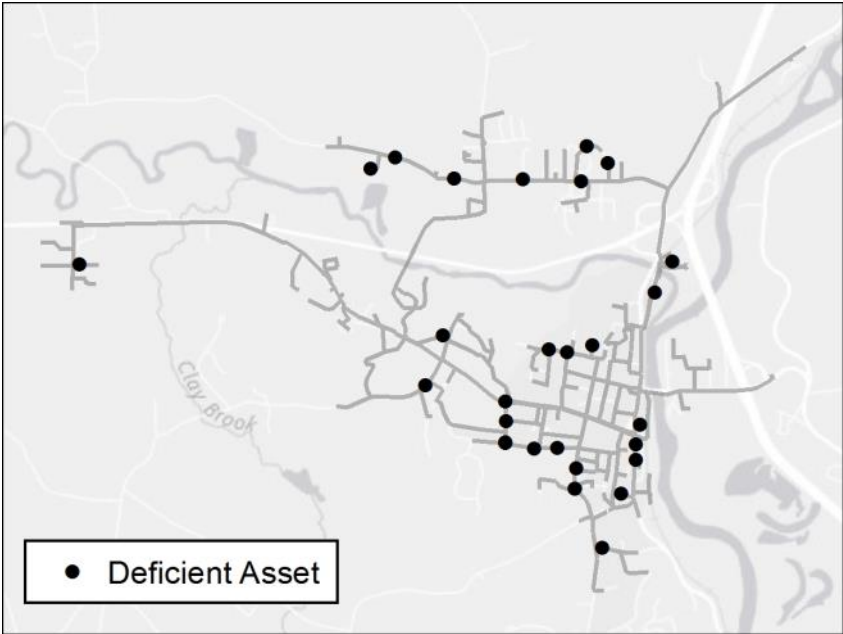
by Chris Berg, P.E., Wright-Pierce

In January of 2016, the Plymouth Village Water and Sewer District (PVWSD) was awarded an Asset Management Grant from the New Hampshire Department of Environmental Services (NHDES) to complete a condition assessment of the valves and hydrants in their distribution system. As part of this effort, the PVWSD Geographic Information System (GIS) was upgraded to allow for real-time data collection using ESRI's ArcGIS Online (AGOL). PVWSD engaged Wright-Pierce to assist the District in software implementation, development of the data collection templates, training and data analysis.

The Program

The transition of GIS data from desktop to AGOL included a review of water main, hydrant and valve information to ensure all pertinent data layers and attributes were selected and formatted correctly. Once transferred to AGOL, desktop files were linked to the AGOL data to ensure data continuity. PVWSD retained offline versions of the data in case of file corruption or user error during the initial transition to the new AGOL format.

To begin the data collection effort, training was provided to PVWSD field staff to ensure the staff was confident with the data collection tools. To aid in data collection on the hydrants and valves, task specific webmaps were developed to assist the field staff in ensuring data was collected. For example, color coded webmaps for hydrant data collection turned each hydrant asset from green to red once the 'inspection complete' field was filled in. The field staff collected and entered information to the GIS on both new and existing assets using tablets or mobile phone using the ESRI Collector app. Using this methodology, data on hydrant manufacturer, model, manufacture date, opening direction, condition comments and a photo of each hydrant was collected directly to the AGOL database. For valves, manufacturer, model, install date, opening direction, condition comments and a photo of each valve box was collected. In areas of Town



where cellular signal was not strong, data was collected offline and then uploaded once cellular connectivity was established.

The Results

Over a period of three months, the PVWSD collected data on all 203 hydrants and 526 valves in the system. The data collection on the hydrants was done as part of PVWSD's flushing program and the valve assessments were collected as time permitted. Upon completion of the data collection, the data was analyzed for data consistency and accuracy.

In determining repair and replacement criteria for hydrants and valves, PVWSD determined that all hydrants manufactured by Ludlow, hydrants installed prior to 1960, those that opened in the clockwise direction (opposite to standard for PVWSD), or those noted as non-functional were priority hydrants to replace. Of the 203 hydrants in the system, 18 met these replacement criteria.

Of the 526 valves in the system, four valves met these replacement criteria. During the condition assessment, the field staff determined that an additional six valves needed repair. Figure 1 above is a map depicting all system hydrant and valves and accompanying test results.

PVWSD estimates the repair and replacement of these assets to be \$115,000 if contracted to be replaced. The District is repairing the valves this year and is currently budgeting for replacement of these assets in 2019.

Leveraging the Cloud and ArcGIS Online in the Future

PVWSD is gaining the additional benefit of more productive time onsite by making this technology and data available to their staff. As part of this and other efforts, swing ties and record drawings have been scanned and are available for review on the tablets in the field. As the District continues to monitor their distribution system assets, and replace and repair hydrants and valves, the attributes for each asset in the GIS will be updated to reflect the locations and condition of PVWSD assets, improving the database and to assist in future maintenance and capital planning efforts.

Chris Berg is a Project Manager in the Water Practice Group in Wright-Pierce's Portsmouth, New Hampshire office. His responsibilities at Wright-Pierce include asset management, master planning and design of water supply, treatment and distribution system infrastructure.

19th Annual Construction Field Day

Wednesday, August 2, 2017



Above: Construction Day 2017 included a presentation at the Berry Brook Storm Water Project in Dover.

Below: Tom Page from Underwood Engineers, Inc. presented on the new Lowell Avenue water treatment plant under construction.





The Lowell Avenue water treatment plant going up around the new filter tanks.



Dover's new chemical feed facility for the Calderwood and Campbell Wells.

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