JOURNAL OF THE

NEW HAMPSHIRE WATER WORKS ASSOCIATION





Operator Training, May 30, 2018, Concord, NH



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Journal of the

New Hampshire Water Works Association

Contents

NHWWA Annual Financial Statement page 13 Fiscal Year 11/1/2016-10/31/2017

NH Water Works Operators in 2017 page 15

Overview of Steps within New Hampshire page 17 that are Required in the Development and Approval of a Small Public Water Supply Well by Bruce W. Lewis, P.E., Lewis Engineering, PLLC, Litchfield, NH

<u>Front Cover Photo</u>: Attendees of the May 30, 2018 Operator Training received a demonstration of a valve maintenance trailer courtesy of Pennichuck Water Works.

Charity Ross, Editor

New Hampshire Water Works Association Board of Directors November 1, 2017—October 31, 2018

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NEW HAMPSHIRE WATER WORKS ASSOCIATION

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| , | |
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| Robert N. Gillis, Concord | 1973-1974 |
| John R. Wood, Plymouth | 1974-1975 |
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| David Kittredge, P.E., Manchester | 1977-1978 |
| Joseph E. Rehler, P.E., Dover | 1978-1979 |
| John N. Isham, Peterborough | 1979-1980 |
| Carl Brink, Jr., Hanover | 1980-1981 |
| Rance Collins, Portsmouth | 1981-1982 |
| Chester Hoadley, Concord | 1982-1983 |
| Albin Johnson, Berlin | 1983-1984 |
| Stephen Lovejoy, Raymond | 1984-1985 |
| Lorraine Saltzer, Hudson | 1985-1986 |

| Ernest Cote, Hampton | 1986-1987 |
|---|-----------|
| Doug Damelio, Keene | 1987-1988 |
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| John Forrestall, Concord | 1989-1990 |
| Roger Gauthier, Exeter | 1990-1991 |
| Dale Sprague, Farmington | 1991-1992 |
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| Stephen Densberger, Nashua | 1993-1994 |
| Robert E. Courage, Milford | 1994-1995 |
| Thomas Bowen, Manchester | 1995-1996 |
| Keith Bossung, Hampton | 1996-1997 |
| Victoria Abbey Del Greco, Exeter | 1997-1998 |
| Edwin Betz, Littleton | 1998-1999 |
| Pierre C. Lavoie, Dover | 1999-2000 |
| Bernard Rousseau, Nashua | 2000-2001 |
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| David Brennan, Sunapee | 2003-2004 |
| Brian Wilson, Ti-SALES, Inc. | 2004-2005 |
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| Lee Minnich, Goffstown | 2006-2007 |
| Brian Goetz, Portsmouth | 2007-2008 |
| David Paris, Manchester | 2008-2009 |
| Philip Bilodeau, Concord | 2009-2010 |
| Steve Guercia, Secondwind Water Systems | 2010-2011 |
| Michael Metcalf, Underwood Engineers | 2011-2012 |
| Marco Philippon, Concord | 2012-2013 |
| William Boulanger, Dover | 2013-2014 |
| Guy Chabot, Manchester | 2014-2015 |
| Francis X. Lyons, FX Lyons, Inc. | 2015-2016 |
| Ian Rohrbacher, Rochester Public Works Department | 2016-2017 |

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 | Spencer Richardson |
| 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 | Kenneth Goode |
| 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 | Daniel Mattus |
| 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 | Alex Crawshaw |
| 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 | Todd Cartier |
| 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 | Dennis Nadeau |
| Hooksett | Hooksett Village Water Precinct | Michael Heidorn |
| Hooksett | Central Hooksett Water Precinct | Jay Smith |
| Hopkinton | Hopkinton Village Precinct | Joseph Damour |
| Hudson | Hudson Water Department | 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 | 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 | Josh Worthen |
| Northumberland | Groveton Water System | Reginald Charron |
| 0.6.1 | O.C. LWILL Bridge | N 11 ' 111 |
| 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 | Scott McGlynn |
| Rye | Rye Water District | Kenneth Aspen |
| , - | , | |
| Salem | Salem Water Works | Frank Giordano |
| 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 | John Dawson III |
| Walpole | Walpole Water Department | Mark Houghton |
| Walpole | N. Walpole Village District | Robert McGuirk |
| Warner | Warner Village Fire District | Joseph Damour |
| Waterville Valley | Waterville Valley Water | Robert Burhoe, Jr. |
| Whitefield | Whitefield Water | Francis Lyons |
| 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, New Hampshire

New Hampshire Water Works Association, Inc. 18 N. Main St., Suite 308 Concord, NH 03301

To the Board of Directors:

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, 2017.

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, 2017 and the balance shown in the savings accounts to agree with the certificate of deposits on file.

Guy Beloin, CPA

February 22, 2018

Lugi Belair

NEW HAMPSHIRE WATER WORKS ASSOCIATION, INC. STATEMENT OF ACTIVITIES FOR THE YEAR ENDED OCTOBER 31, 2017

| | | General account | Legislative account | , <u>, , , , , , , , , , , , , , , , , , </u> | Combined |
|--|--------------|-----------------|----------------------------|---|----------|
| Revenue and support: | | | | | |
| NHWWA membership fees | \$ | 17,432 | \$ 17,715 | \$ | 35,147 |
| State and local grants | | 35,000 | | | 35,000 |
| Trade fair and exposition | | 49,880 | | | 49,880 |
| Operator training seminar | | 30,672 | | | 30,672 |
| Basic operator course | | 11,000 | | | 11,000 |
| Technical seminars | | 10,665 | | | 10,665 |
| Construction Day Field Trip/ NHDWW | | 5,353 | | | 5,353 |
| Publications - NHWWA journal and newsletters | | 14,556 | | | 14,556 |
| Interest and investment income | 2 | 260 | 19 | | 278 |
| Total revenue and support | - 100 100 | 174,817 | 17,733 | % 65- | 192,550 |
| Expenses: | | | | | |
| Program services: | | | | | |
| Trainings and Seminars | | 24,684 | | | 24,684 |
| Events and Activities | | 19,922 | | | 19,922 |
| Publications | | 6,666 | | | 6,666 |
| Drinking Water Festival | | 3,509 | | | 3,509 |
| General: | | | | | |
| Salaries and wages and benefits | | 75,319 | 5,965 | | 81,284 |
| Payroll taxes | | 4,957 | 456 | | 5,413 |
| Rent | | 5,400 | | | 5,400 |
| Office supplies, expense | | 7,084 | 0 | | 7,084 |
| Insurance | | 1,321 | | | 1,321 |
| Professional services | | 575 | | | 575 |
| Travel | | 2,148 | | | 2,148 |
| Taxes, filing fees | | 843 | 50 | | 893 |
| Miscellaneous | _ | 1,297 | 280 | | 1,577 |
| Total program services and support | - | 153,725 | 6,751 | | 160,476 |
| Net revenue and support | \$_ | 21,092 | \$ 10,983 | \$_ | 32,074 |
| Statement of cash balances: | | | | | |
| The state of the second st | | | | | |
| Cash and cash equivalents, beginning, November 1, 2016 | | | | \$ | 59,018 |
| Add: net revenue and support | | | | 2 | 32,074 |
| Cash and cash equivalents, ending, October 31, 2017 | | | | \$_ | 91,092 |

New Water Works Operators in 2017

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. The next renewal year is 2019. 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 2017 and those who advanced in their Treatment and/or Distribution grade.

Combined Distribution and Treatment C1A

Kathleen D. Alcott Brad J. Boutin Robert E. Bowman James E. Brigham John L. Cuddihee Gregory A. Cummings Steven M. DeAngelis Richard Dearborn Jaimie L. DeClercq Laura M. DeFazio Todd C. Ferris Noreen C. Fratus Dennis B. Galimberti Nathaniel W. Guerette Cheryl E. Hall Philip A. Heath James M. Hill Brian P. Hoffman Jeffrey L. Hoffman Jacqueline F. Howarth Kelley L. Huggins Scott E. Huggins Nicholas W. Huntoon Jan S. Mackenzie Shane T. Nicols Jason G. North Brian D. Nothnagel Jared F. Pittman Brendon M. O'Keefe Ricardo J. Rivera Arthur H. Susmann Shanna C. Tiede Lucas R. Turcotte Edward G. Vergato

Distribution Grade I

Brian D. Barry Greg A. Bilodeau Darren Candello Benjamin L. Clarke Anthony J. Cavaliere Laura M. DeFazio Thomas F. Donahue Craig W. Gilcris Norris B. Harriman, Jr. Benjamin T. Jankowski Jamie C. Jarest Michael J. Judkins Philip A. LaFlamme Dylan T. Murphy Eric J. Oulette James E. Pouliot Richard P. Riddle Raymond E. Sandifer Shane M. Stone David F. Webber Sarah Werner

Treatment Grade I

Brian D. Barry Greg A. Bilodeau Victoria I. Bullard Darren M. Candello Anthony J. Cavaliere Iustin G. Daniels Laura M. DeFazio Craig W. Gilcris Norris B. Harriman, Jr. Gary A. Hebert Philip A. LaFlamme Christopher M. Lewis Ethan G. Marshall Dylan T. Murphy James E. Pouliot Beau P. Schofield David F. Webber

Distribution Grade II

Gary A. Hebert Beau P. Schofield

Treatment Grade II

Patricia L. Chesebrough David M. Halligan John W. Howard Nathan H. Little Nicholas J. Tumolo

Overview of Steps within New Hampshire that are Required in the Development and Approval of a Small Public Water Supply Well

by Bruce W. Lewis, P.E. Lewis Engineering, PLLC - Litchfield, NH

Introduction

This paper is presented for review by water system operators and superintendents as an overview of the processes associated with developing a new small public water system (PWS) well source in the State of New Hampshire. From time to time certified operators, and perhaps town water personnel will be asked for an opinion on the development of a new water source associated with small public water supply sources. These are well water supplies less than 40 gallons per minute (GPM) which reflects a maximum permitted production volume (PPV) up to 57,600 gallons per day (GPD). Many times, these wells are associated with small PWS stand-alone communities that fall outside the limits of the town's water system. These water supply wells are often part of new property that is being proposed, or developed, or a well may be required to replace and/or supplement an existing water supply.

The focus and intent of this paper is to assist water works personnel by providing a succinct overview of the approval process administered by the New Hampshire Department of Environmental Services' Drinking Water Groundwater Bureau (DWGB). A small water system's well water production sources usually consists of bedrock or sand and gravel wells. The referenced New Hampshire Administrative Rule section is Env-Dw 305: "Small Production Wells for Small Community Water Systems".

The following summarizes the pertinent steps associated with this process:

- 1. Permitting Agencies / Regulators: Coordination of this process is between the party desiring to have the small public water supply well, or wells, the DWGB, and the town where the water supply will be located. The DWGB is the State of New Hampshire's review and approval agency for small public systems and water supplies of this nature, and as a primacy state, follows the US Environmental Protection Agency (EPA) Safe Drinking Water Act (SDWA) regulations. The well water supply approval comes through the DWGB. In most cases, the balance of the engineering design approval for water treatment, water storage, pumping facilities, etc., as in the case of a new community water system, comes through the DWGB's engineering group. Approvals are by written correspondence between the DWGB and the owner. There are no official permit numbers assigned until the water system is ready to begin operation. The DWGB does assign internal tracking numbers for these projects. The final step, when the water supply has met all required regulations, DWGB assigns a seven-digit PWS number, also known as an EPA number, to the project. This is done when the new community water system is ready to supply drinking water to the public. The PWS number tracks the project from that time forward. All PWS's are monitored by the State and must be operated by a New Hampshire licensed certified water system operator. The certified operator is responsible for the day-to-day operation of the water system as well as meeting all reporting requirements.
- 2. Concept / Capacity Assurance Proposed Water System Report: This is the first step in the process associated with a new PWS. This report addresses a number of water related issues and is sent to the DWGB's engineering group for their review, comments, and approval. This report must address a number of issues. A general description of the project, the proposed number of wells, projected water

supply requirements, and recognition of required Sanitary Protective Area (SPA) protective radii are discussed. This generally applies when there is no public water supply within a reasonable distance of the site.

Technical conceptual details are summarized about the anticipated design of the new water system including the water supply wells, water metering, water treatment, water storage, booster pumps, control panel and monitoring equipment, and in some cases, standby power. A summary of the well drilling and the proposed testing process, along with a summary of necessary reports are provided.

Managerial assurance details are provided for review. These include the requirement of a certified operator, ownership of the water system, and a summary of how the costs of owning and operating the water system will be covered.

Financial assurance requirements are explained as well as providing a preliminary business plan, with a budget that covers anticipated estimated operating expenses. A final business plan is required following a final system design with cost centers identified, and this budget is projected out for five-years.

3. Preliminary Well Siting Report: This is the first step in the process that is directed to the DWGB for their review and comments, once the preliminary concept has been reviewed and approved by the DWGB's engineering group. In summary, the proposed small groundwater withdrawal well(s) need to be located where a properly sized SPA radius is available and will be under the control of the system that utilizes the water supply. Wells are approved on the basis of a Permitted Production Volume (PPV). This is the maximum day withdrawal allowed for the particular water supply. Water supply withdrawal for all new community water system wells must be reported to the

DWGB under their Groundwater Withdrawal Rules. The radius is determined by the quantity of water that is required. The radius normally falls within a 150' radius for up to 14,400 gpd PPV, a 175' radius for up to 28,800 gpd PPV, and a 200' radius up to 57,600 gpd PPV. Where more than one well will be required, the well radii may overlap. This radius area has its use restricted to water supply items only, and must be kept free of significant disturbance, i.e. being kept in its natural state as much as possible. A number of specific restrictions are applied to the area within the radius including; no use of fertilizers, herbicides, pesticides, insecticides, and no retention or drainage ponds. Radii may overlap wetland areas, which provide protection by default, due to local restrictions.

There are a number of specific parts and reports associated with the preliminary report. Detailed information about the project, applicant, well site owner, project consultant, report preparer, and pumping test contractor are required. The proposed PPV has to be calculated based on DWGB water use design criteria, and the applicant and report preparer must sign a certification statement. preliminary report includes: specific information showing ownership of the property, a statement that a water conservation plan has been prepared and submitted to the DWGB (which is a separate reporting package and requirement), a detailed well siting area evaluation, preliminary water supply requirements, an evaluation of how the well will be protected including proximity to surface water and the 100-year flood level, a description of the SPA, description of the larger Well Head Protection Area (WHPA), and a proposed detailed plan for the DWGB's mandated 72-hour pumping test with proposed water quality monitoring. This reporting package will also include a number of detailed exhibits for the DWGB's review and comment. The DWGB approval letter for this report allows

the well drilling to proceed at the location identified in the report.

After the well(s) have been completed, drilled to New Hampshire Water Well Board standards by a well driller licensed in New Hampshire, the well(s) test is scheduled with the DWGB. During the formal pump testing, which is a minimum of 72 hours based on DWGB standards, other nearby neighborhood wells may be monitored as part of the test. Near the end of the test, a full set of SDWA water samples will be obtained and analyzed through a water laboratory certified in the State of New Hampshire.

4. Final Well Report: In summary, the final well report analyzes all the accumulated testing data and presents the results to the DWGB for review, comments, and approval. The report calls out the proposed approval quantity and identifies any water treatment that may be required based on the results of the SDWA water quality results.

The report provides all current information for the project including the applicant, well site owner, the report preparer, and contact information for the New Hampshire licensed pump installer company who conducted the pumping test. The applicant and preparer both sign a certification statement and a copy of the preliminary report approval letter is also provided.

Source capacity requirements are summarized, and if the pumping test met the proposed minimum capacity criteria, additional detailed information is provided. This includes information about the as-built well details, details of what exists within 1,000 feet of the well in all directions, the radius associated with the SPA and land use within the SPA, and specific information about legal control of this area.

The report should also include the data accumulated before, during, and following (well recovery) the 72-hour test,

including the operation of other existing wells associated with the water system, plus monitoring of off-site wells, as previously approved by the DWGB. The rate of flow and discharge location have to be identified, as well as how water level measurement was obtained.

Test dates and water level drawdown during the test, and well level recovery following the test are summarized. A summary of water samples obtained, usually a full New Hampshire SDWA suite, and the New Hampshire certified water testing laboratory are identified. Any parameters exceeding primary or secondary drinking water standards are identified. If a bedrock well is located within 200' of a surface water, and a micro-particulate analysis (MPA) was collected, these results are also presented.

The wellhead protection area is re-identified, with an updated map showing any potential contaminations sources (PCS's), and conducting a windshield survey of this area, with the name of the person who conducted the survey and date. This survey must be re-conducted every three years by the New Hampshire certified operator, or consultant. This includes sending educational materials by US mail to all owners of the property, and must be distributed by a party responsible for the organization utilizing the well(s).

A number of detailed exhibits are required to be included with the application. If associated with a new water system where additional water related facilities will be constructed, a statement of the responsible party for the balance of engineering design items associated with the use of the well(s) is also needed. These design items, which will be the topic of a future paper, are submitted to the DWGB's engineering group along with a copy of the final approval to connect the well(s) being approved for use as potable water supply well(s) in New Hampshire.

As a new PWS project develops over time, careful tracking of actual water use through well water meters are required. This is part of New Hampshire's Water Conservation Program (WCP) for all PWS's. This mandated criterion allows the DWGB to monitor actual water use against the approved PPV of the approve well(s). In practice, this also allows a PWS to include an irrigation component within a system's water use budget.

In conclusion, the process for the siting, drilling, testing, and obtaining the necessary approval for new water supply sources in the State of New Hampshire proceeds over a number of months. Each step is carefully reviewed and monitored by the technical staff of the DWGB. This approval process is a cooperative effort between the consultant, a New Hampshire certified well driller and a New Hampshire certified well pump installer (often the same company qualifies), a New Hampshire certified water quality testing laboratory, and the DWGB. This cooperative effort helps to guarantee that the people who will be depending of the use of this water for their day-to-day potable water will be well served for many years.

Additional information may be found at www.des.nh.gov, or by calling 603-271-2947.

Upcoming Events

Construction Field Day

Wednesday, August 1, 2018 8:30 AM—3:00 PM

Concord Transportation Center

Bus Station located at 30 Stickney Ave., Concord, NH

Stops include:

Hooksett Village Water Precinct
Manchester Water Works' Tank Construction
Pennichuck's Water Main Crossing
Pennichuck Distribution Center

\$75 NHWWA Members/\$95 Non-Members

NH Drinking Water Expo & Trade Show

Thursday, October 25, 2018 8:00 AM—4:00 PM Grappone Conference Center, Concord, NH

Please visit www.nhwwa.org for more details on upcoming events.

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| CORE & MAIN LP 232 Frontage Road Manchester, NH 03103 www.coreandmain.com | Richard Bushnell | 603-263-7350 |
| E. J. PRESCOTT, INC. 210 Sheep Davis Road Concord, NH 03302-0337 www.ejprescott.com | Don Proulx | 603-224-9545 |
| EMERY & GARRETT GROUN | DWATER INVESTIGAT | IONS, LLC |
| 56 Main St., PO Box 1578 Meredith, NH 03253 www.eggi.com | James M. Emery (1 | 603-279-4425 F) 603-279-8717 |
| EPPING WELL & PUMP CO., | INC. | |
| 337 Calef Highway (Rte. 125) Epping, NH 03042 www.eppingwell.com | Henry DeBoer Mark Perry | 603-679-5299 |
| MAHER SERVICES 71 Concord St. North Reading, MA 01864 www.maherserv.com | Peter Maher (I | 978-664-9355 F) 978-664-9356 |
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| 41 Central St. Auburn, MA 01501 www.rhwhite.com | Dan Horgan David H. White | 508-832-3295 |

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| SMITH PUMP CO., INC. 48 Londonderry Turnpike Hooksett, NH 03106 www.smithpumpnh.com | Jack Porter Steve Smith | 603-669-9119 |
| STATEWIDE AQUASTORE, I 6010 Drott Drive East Syracuse, NY 13057 www.besttank.com | NC. Annie Wheeler | 315-433-2782 |
| STILES CO., INC. 922 Pleasant St. Norwood, MA 02062 www.stilesco.com | Ian Kasowitz Scott Fitzgerald Sandy Stiles | 781-769-2400 |
| STONKUS HYDRAULICS 166 Lakeshore Drive Blackstone, MA 01504 www.stonkus.com | Brian Stonkus | 508-966-3844 |
| TI-SALES, INC. 36 Hudson Road Sudbury, MA 01776 www.tisales.com | Steve Clements Dave Harris | 978-443-2002 (F) 978-443-7600 |

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AIR VALVES

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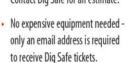


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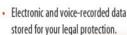


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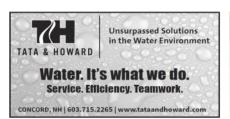
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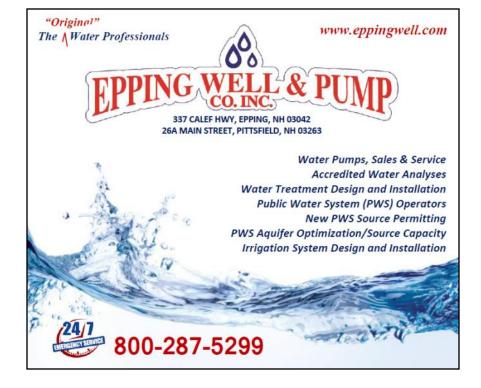
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| Space Size | 4.5" X 7.5" | 4.5" X 7.5" | 4.5" X 3.75" | 4.5" X 1.7" | 2.2" x 1.25" |
| Cost/Year | \$380.00 | \$255.00 | \$160.00 | \$130.00 | \$80.00 |

Directory of Manufacturers Listing

\$95/year

Includes names of up to 3 representatives, contact information and product listing.

NEWSLETTER ADVERTISING - three Issues per year.

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Medium Rectangle—appears on all pages, links to advertiser's website. \$440/year

Footer Banner—three ad animation loop, appears on all pages, links to advertiser's website. \$330/year

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Drinking Water Week Festival—May, 9, 2018

- recognition at the event and in the Newsletter

Fisher Cats Outing - June 28, 2018

-recognition at the event and in the Newsletter

Construction Day—August 1, 2018

- incudes an ad in an 8.5" X 11" color brochure

NH Drinking Water Expo & Trade Show - October 25, 2018

- General Support, Food & Beverage, and Seminar Room Sponsorships

Please note that billing for advertising will be done once per year. Sponsorships are solicited prior to each event.

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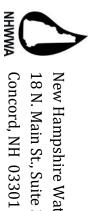
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