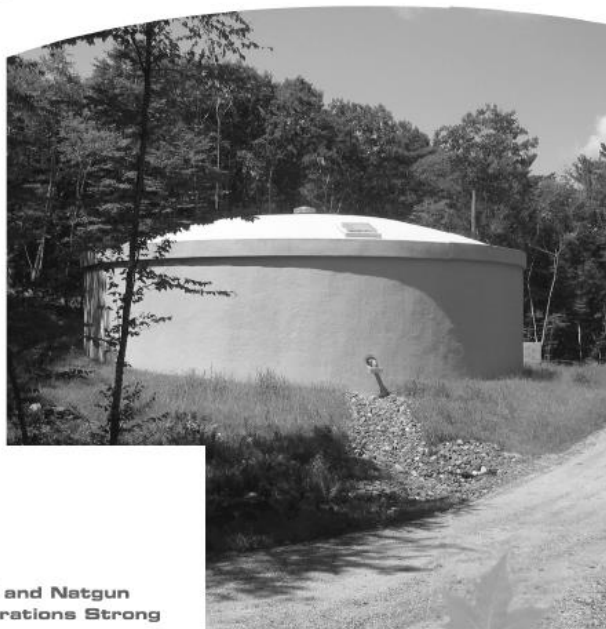




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# **Journal of the New Hampshire Water Works Association**

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*by Peter J. Grabowski, P.E., Vice President and  
Peter M Valinski, P.E., Vice President, Tighe & Bond.*

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Michael Metcalf, Underwood Engineers, Inc.	2011-2012
Marco Philippon, Westford, MA Water Dept.	2012-2013

\*Deceased



# Water Works Superintendents and Other Officials

## STATE OF NEW HAMPSHIRE

<b>Town</b>	<b>System</b>	<b>Name</b>
Alton	Alton Water Works	William Curtin
Amherst	Amherst Village District	Chris Countie
Andover	Andover Water Works	Todd Cartier
Antrim	Antrim Precinct	Jim Cruthers
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	Jim Fortin
Bennington	Bennington Water Dept.	Jim Cruthers
Berlin	Berlin Water Works	Craig Carrigan
Bethlehem	Bethlehem Village District	Terence Welch
Boscawen	Penacook-Boscawen Water	Peter Miner
Brentwood	Rockingham County Home	Tom Schulte
Bristol	Bristol Water Works	Jeffrey Chartier
Campton	Campton Village Precinct	George Burhoe, Jr.
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
Charlestown	N. Charlestown Water Works	Dave Duquette
Claremont	Claremont Water Works	Robert Lauricella
Colebrook	Colebrook Water Works	Kevin McKinnon
Concord	Concord Water Resources	Phil Bilodeau
Contoocook	Contoocook Water Precinct	Steve Clough
Conway	Conway Village Fire Precinct	Gregg Quint
No. Conway	N. Conway Water District	David Bernier
E. Conway	Fryeburg Maine Water Co.	John Hastings
Derry	Derry Water Works	Thomas Carrier
Dover	Dover Water Works	Doug Steele
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

<b>Town</b>	<b>System</b>	<b>Name</b>
Errol	Erroll Water Works	Lawrence Enman
Exeter	Exeter Water Works	Paul Roy
Farmington	Farmington Water Dept.	Dale Sprague
Fitzwilliam	Fitzwilliam Village Water District	Joseph Damour
Francestown	Francestown Village Water	Ronald Cheney
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	Gilford Village Water District	Norm Harris III
Gilford	Gunstock Acres	Alex Crawshaw
Goffstown	Goffstown Village Fire Precinct	Lee Minnich
Gorham	Gorham Water Works	David Patry
Grantham	Village District of Eastman	William Weber
Greenville	Greenville Water Works	Robert Lauricella
Hampton	Aquarion Water Co.	Carl McMorran
Hancock	Hancock Water Works	Kurt Grasset
Hanover	Hanover Water Works Co.	John Dumas
Haverhill	Haverhill Corner Precinct	Robert Fagnant
No. Haverhill	N. Haverhill Water & Light	Robert Fagnant
Haverhill	Woodsville Water & Light Precinct	Robert Fagnant
Henniker	Cogswell Springs Water Works	Norman Bumford
Hill	Hill Water Works	John Benham
Hillsboro	Hillsboro Water Works	Keith Gilbert
Hillsboro	Emerald Lake Village District	Joe Damour
Hinsdale	Hinsdale Water Works	Dennis Nadeau
Hooksett	Hooksett Village Water Precinct	Joe Hebert
Hooksett	Central Hooksett Water Precinct	Gregory Weir
Hopkinton	Hopkinton Village Precinct	Joe Damour
Jackson	Jackson Water Works Company	Scott Hayes
Jaffrey	Jaffrey Water Works	Tom Lambert
Keene	Keene Water Works	James Donison
Laconia	Dockham Shores Estates	Colin Robertson
Laconia	Laconia Water Works	Seth Nuttelman
Lancaster	Lancaster Water Works	Timmy Bilodeau
Lebanon	Lebanon Water Works	Jim Angers
Lincoln	Lincoln Water works	William Willey
Lisbon	Lisbon Village District	Terence Welch

<b>Town</b>	<b>System</b>	<b>Name</b>
Littleton	Littleton Water & Light Dept.	Tom Considine
Madison	Village District of Eidelweiss	Scott Hayes
Manchester	Manchester Water Works	David Paris
Marlboro	Marlboro Water Works	Sly Karasinski
Meredith	Meredith Water Dept.	Daniel Leonard
Meriden	Meriden Village Water District	Bill Taylor
Merrimack	Merrimack Village Water District	Ronald Miner, Jr.
Milford	Milford Water Utility	Dave Boucher
Milton	Milton Water Works	Mark Badger
Monroe	Monroe Water Department	Robert Fagnant
Nashua	Pennichuck Water Works	Chris Countie
New Castle	New Castle Public Works Dept.	Steve Scotton
Newfields	Newfields Village Water & Sewer	Peter Hellfach
New Hampton	New Hampton Village Precinct	Joseph Powers
New London	New London/Springfield Water	Rob Thorp
Newmarket	Newmarket Water Works	Sean Grieg
Newport	Newport Water Department	Bob Naylor
Northumberland	Groveton Village Precinct	Travis Wentworth
Orford	Orford Water Supply Company	Bill McKee
Center Ossipee	Center Ossipee Water Precinct	Doug Sargent
Pembroke	Pembroke Water Works	Matt Gagne
Peterborough	Peterborough Water Works	Nate Brown
Pittsburg	Pittsburg Water District	Richard Sargent
Pittsfield	Pittsfield Aqueduct Company	Chris Countie
Plainfield	Plainfield Water District	Carl Colburn
Plymouth	Plymouth Village Water Works	Kirk Young
Portsmouth	Portsmouth Water Works	Steve Scotton
Raymond	Raymond Water Works	Scott Keddy
Rochester	Rochester Water Works	Peter Nourse
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	Allen Breton
Stewartstown	Riverside Water Works	Marshall Ames
Stewartstown	W. Stewartstown Water Works	Robert Burn
Stratford	No. Stratford Water	Carleton Harris
Sunapee	Sunapee Water Works	Dave Bailey

<b>Town</b>	<b>System</b>	<b>Name</b>
Swanzey	No. Swanzey Water & Fire Precinct	Sly Karasinski
Tamworth	Tamworth Water works	Tom Mason, Jr.
Tilton	Tilton/Northfield Water District	John Chase
Troy	Troy Water Works	Justin Frazier
Wakefield	Sanbornville Water Department	Dean Giffen
Walpole	Walpole Water Department	Mark Houghton
No. Walpole	No. Walpole Village District	Robert McGuiirk
Warner	Warner Village Fire District	Jeremiah Menard
Waterville Valley	Waterville Valley Water Dept.	Jim Mayhew
Whitefield	Whitefield Village Precinct	Bill Thompson
Wilton	Wilton Water Works	Carl Somero
Winchester	Winchester Water Works	Gary Puffer
Wolfeboro	Wolfeboro Water & Sewer Dept.	Scott Pike
Woodstock	Woodstock Water Works	Steve Welch
Woodsville	(See Haverhill)	



NEW HAMPSHIRE WATER WORKS ASSOCIATION, INC.  
STATEMENT OF ACTIVITIES AND CASH AND CASH EQUIVALENTS  
FOR THE YEAR ENDED OCTOBER 31, 2013

	General account	Legislative account	Total
<b>Revenue and support:</b>			
NHWWA membership fees	\$ 16,380	\$ 17,833	\$ 34,213
Trade fair and exposition	32,855		32,855
Operator training seminars	23,555		23,555
Basic operator course	9,000		9,000
Technical seminars	11,078		11,078
Construction Day Field Trip/ NHDWW	5,515		5,515
Advertising - NHWWA journals and newsletters	11,445		11,445
Interest income	22	12	34
	<u>109,850</u>	<u>17,845</u>	<u>127,695</u>
<b>Total revenue and support</b>			
<b>Expenses:</b>			
<b>Program services:</b>			
Trade fair and exposition	14,359		14,359
Operator training seminars	35,696		35,696
Basic operator course	1,609		1,609
Technical seminars	7,041		7,041
Construction Day Field Trip/ NHDWW	3,582		3,582
NHWWA journals and newsletters	7,238		7,238
<b>General:</b>			
Salaries and wages	69,223	13,313	82,536
Payroll taxes	5,296	1,018	6,314
Rent	5,400		5,400
Printing and postage	3,798		3,798
Office supplies/ expenses	3,240	478	3,718
Telephone	786		786
Travel expense	982		982
Insurance	1,714		1,714
Professional services	575		575
Taxes, filing fees	477	50	527
	<u>161,016</u>	<u>14,859</u>	<u>175,875</u>
<b>Total expenses</b>			
<b>Net (deficit) revenue and support</b>	<b>\$ (51,166)</b>	<b>\$ 2,986</b>	<b>\$ (48,180)</b>
Cash and cash equivalents, November 1, 2012	\$ 68,887	\$ 40,885	\$ 109,772
Add (Deduct): net (deficit) revenue and support	(51,166)	2,986	(48,180)
Cash and cash equivalents, October 31, 2013	<u>\$ 17,721</u>	<u>\$ 43,871</u>	<u>\$ 61,592</u>

# Water Works Operator Certification 2013

Currently there are about 1000 operators of public water system treatment plants and distribution systems licensed by the State of New Hampshire. New Hampshire operators were required to renew their licenses in December 2013. License renewal is required every two years.

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

Following are those who were certified by examination or reciprocity in 2013.

## Combined Distribution and Treatment Grade C1A

Ramadan J. Aligo	Zach Fronton	John J. Pirkey
William M. Arnold	Edward T. Gallagher	James T. Plunkett
Jacob M. Bashaw	Walter B. Gruda	Daniel F. Riley
Daniel J. Boutin	Corbin J. Kennedy	Brian C. Rogers
David P. Chenel	Jack A. Kostka	Gary L. Sawtelle
Diane E. Currier	Andrew J. Lane	Peter F. Spollett
David G. Enos	Caroline A. Maher	John E. Thalhauser
Edward R. Fabian, IV	Tracey A. Ogden	
Wade G. Fenderson	Mark R. Perry	
Russell S. Freeman		

## Distribution Grade I

Joshua M. Beaulieu	Christopher M. Guay	Charles R. Noyes, Jr.
Peter D. Bergeron	Richard J. Laughton	David M. Rieth
Roderick W. Dempsey	Justin J. Marshall	Todd A. Tardiff
Chris M. Eaton	Michael J. McKay	Roger G. Wadleigh
Matthew M. Garcia	Richard K. Meleski	

## **Treatment Grade I**

Joshua M. Beaulieu  
Peter D. Bergeron  
Robert W. Burhoe, Jr.  
Roderick W. Dempsey  
Christopher M. Guay  
Richard J. Laughton

Justin J. Marshall  
James F. Mayhew  
Richard K. Meleski  
Charles R. Noyes, Jr.  
Todd A. Tardiff  
Roger G. Wadleigh

## **Distribution Grade II**

Robert W. Burhoe, Jr.  
John J. Coffey  
Jason S. Kelly  
James F. Mayhew  
Gerald W. Van Amburgh

## **Treatment Grade II**

Glenn P. Boisvert  
John J. Coffey  
Jason S. Kelly  
Joshua M. Scotton  
Gerald W. Van Amburgh  
Daniel R. Wojcik, Jr.

## **Treatment Grade III**

Jason Y. Cairelli

## **Distribution Grade IV**

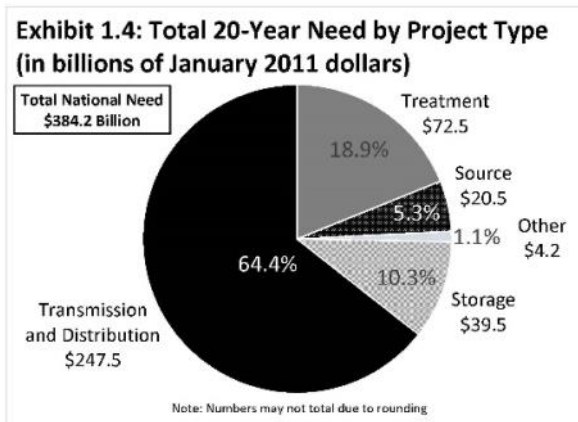
Raymond F. Gelinis



# Conditions Assessments – The Backbone to Asset Management

by Peter J. Grabowski, P.E., Vice President – Tighe & Bond and  
Peter M. Valinski, P.E., Vice President – Tighe & Bond

According to the American Society of Civil Engineers (ASCE) *8679 Report Card for America's Infrastructure*, there are 5<sup>1</sup>4,444 public drinking-water systems located across the United States. Of these systems, 54,000 are community water systems that collectively serve more than 264 million people. According to the New Hampshire Department of Environmental Services (NHDES) Drinking Water and Groundwater Bureau, there are approximately 2,400 public water systems in the state. Various agencies over the years have documented the state of the water industry and the condition of our infrastructure. According to the Environmental Protection Agency's (EPA's) *8677 Drinking Water Infrastructure Needs Survey and Assessment*, drinking water utilities will need \$7<sup>2</sup>8.6 billion in infrastructure investments over the next 20 years. These investments are required to address the aging infrastructure of treatment plants, pump stations, storage tanks, and water mains, as well as changes in regulations.



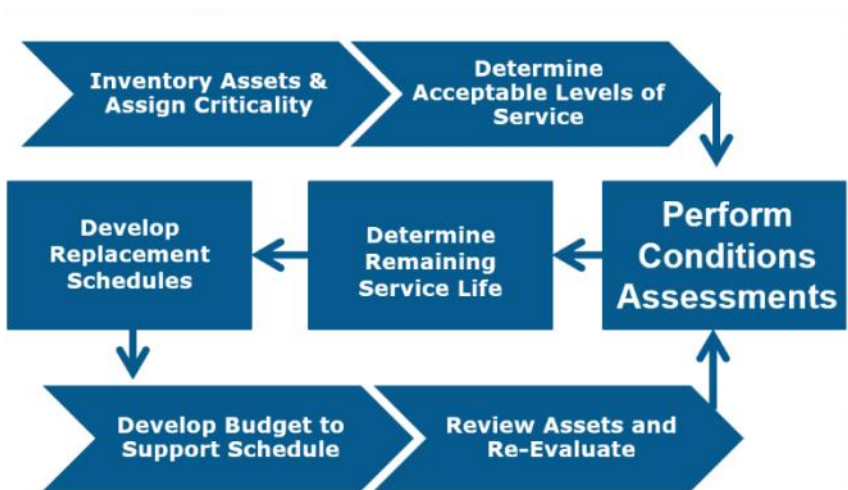
The water utilities in New Hampshire are not immune to the aging infrastructure issue that is plaguing utilities across the nation. According to the EPA's 2011 needs survey of partially surveyed states, utilities in New Hampshire have the following needs over the next 20 years:

- Large Community Water Systems (CWSs): \$56.7 (in millions of January 2011 dollars)
- Small CWSs: \$708.0 M
- Not-for-Profit Non-community Water Systems (NPNCWSs): \$70.2 M

Based on the above assessment, water utilities in New Hampshire have a total need of more than \$834.9 million over the next 20 years.

A Joint Legislative Study Commission was charged with studying the long-term sustainability of New Hampshire's water infrastructure and its funding. Their findings were presented in the final report dated November 2013 (<http://gencourt.state.nh.us/statstudcomm/reports/1997.pdf>). To fund the water infrastructure needs, the Commission recommended that the state should create a Water Trust Fund to ensure adequate annual investment. Further, one of the Commission's recommendations states that "State funding for water infrastructure from the Water Trust Fund must be contingent on implementation of measures by water infrastructure system owners that will ensure proper and adequate future investment and asset management." The Commission concluded that "the state has an obligation to ensure that public funds (state grants and loans) used to invest in new water infrastructure or to re-invest in existing (aging) infrastructure are invested wisely and efficiently." A major condition of funding recommended by the Commission is that infrastructure owners adopt sustainable asset management practices.

An asset management process can assist utilities with the planning and prioritization of infrastructure investment to make sure that limited funds are being targeted to the highest risk assets. Asset management is often defined as the timely and cost effective operation, maintenance, rehabilitation, and replacement of facilities and infrastructure. The process begins with the original design and ends with the disposal of the asset. The goal of asset management is to maximize the value of the asset over its life cycle, and it is an iterative process. A typical capital improvement planning/asset management process is shown in the flow diagram.



Conditions assessments are the backbone of the asset management process. The conditions assessment is used to prioritize and budget for capital and maintenance expenditures for the utility's assets. Asset management should include the following items:

- Current state of the asset (remaining life, value, level of functionality, etc.)
- Prioritization of equipment to overall system functionality
- Estimates of required investments of time and money to sustain the equipment
- Lowest life-cycle costs associated with the asset
- Available funding options such as capital investments versus operational budgets

The benefits of this type of planning include:

- Ability to prioritize expenditures
- Ability to plan for and normalize expenditures over the planning period
- Minimize operating and maintenance costs
- Prolong equipment service life
- Plan for and project rate increases
- Minimize costs and downtime associated with emergency repairs
- Minimize risk of service loss due to asset failure

The conditions assessments are repeated at desired time frames (e.g., between 5 and 10 years) to ensure that the condition of the assets is properly documented and prioritized in the capital planning process. This process is critical due to the funding gap between the infrastructure needs and the available funding for utilities.

The asset management process can be used by water utilities to reduce operating risks and address infrastructure challenges, as infrastructure continues to age and deteriorate. It is time to eliminate the information gap between a utilities' assets and its respective condition and remaining service life.

The next step is to implement asset management. There are several asset management references available for use on the United States Environmental Protection Agency (USEPA) website:

1) Asset Management: A Best Practices Guide

***[http://www.epa.gov/ogwdw/smallsystems/pdfs/guide\\_smallsystems\\_assetmanagement\\_bestpractices.pdf](http://www.epa.gov/ogwdw/smallsystems/pdfs/guide_smallsystems_assetmanagement_bestpractices.pdf)***

This guide presents the five core questions framework for asset management.

2) Asset Management: A Handbook for Small Systems

***[http://epa.gov/safewater/smallsystems/pdfs/guide\\_smallsystems\\_asset\\_mgmnt.pdf](http://epa.gov/safewater/smallsystems/pdfs/guide_smallsystems_asset_mgmnt.pdf)***

This guide is designed for owners and operators of small community water systems to provide the basic concepts of asset management and provides the tools to develop an asset management plan.

3) Asset Management for Local Officials

***[http://www.epa.gov/ogwdw/smallsystems/pdfs/guide\\_smallsystems\\_assetmanagement\\_localofficials.pdf](http://www.epa.gov/ogwdw/smallsystems/pdfs/guide_smallsystems_assetmanagement_localofficials.pdf)***

This fact sheet describes local officials' roles in successfully implementing an asset management program.

#### 4) Building an Asset Management Team

***[http://water.epa.gov/type/watersheds/wastewater/upload/guide\\_smallsystems\\_assetmanagement\\_teammanagement.pdf](http://water.epa.gov/type/watersheds/wastewater/upload/guide_smallsystems_assetmanagement_teammanagement.pdf)***

This fact sheet assists with the formation of a team to successfully implement an asset management program.

#### 5) Check Up Program for Small Systems (CUPSS)

***<http://water.epa.gov/infrastructure/drinkingwater/pws/cupss/index.cfm>***

CUPSS is a free asset management tool for small drinking water and wastewater utilities used to develop:

- A record of your assets
- A schedule of required tasks
- An understanding of your financial situation
- A tailored asset management plan

Beyond planning, asset management will involve a series of doing, checking, and acting to achieve the desired result.

Co-Authors:

Peter J. Grabowski, P.E., Vice President – Tighe & Bond

Peter M. Valinski, P.E., Vice President – Tighe & Bond

Tighe & Bond

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800-339-2506

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E.J. Prescott, Inc.                      Smith Pumps Co.                      Stiles Co Inc.  
Stonkus Hydraulics                      Technology Sales                      Ti-SALES, Inc.

## CHECK VALVES - DOUBLE

E.J. Prescott, Inc.                      Stiles Co Inc.

## CHEMICAL FEEDERS

BAU-HOPKINS                      Stiles Co Inc.

## CHLORINATORS

BAU-HOPKINS

## COMPRESSION PIPE COUPLINGS

Stiles Co Inc.                      Ti-SALES, Inc.

## COOPERHORNS

E.J. Prescott, Inc.                      Stiles Co Inc.                      Ti-SALES, Inc.

## CURB BOXES

E.J. Prescott, Inc.                      Stiles Co Inc.                      Ti-SALES, Inc.

## CURB & CORPORATION BOXES

E.J. Prescott, Inc.                      Stiles Co Inc.                      Ti-SALES, Inc.

## DIAPHRAGM-PUMPS

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Ti-SALES, Inc.

**DRILL STEEL & BITS**

Stiles Co Inc.

**FITTINGS - BRASS & COPPER**

E.J. Prescott, Inc.                      Stiles Co Inc.                                      Ti-SALES, Inc.

**FITTINGS - CAST IRON**

E.J. Prescott, Inc.                      Ti-SALES, Inc.

**FITTINGS—GALV. AND BLACK IRON AND STEEL**

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**FLOW REDUCTION DEVICES**

E.J. Prescott, Inc.

**FLUORIDATION EQUIPMENT**

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**GASKETS & PACKING**

Stiles Co Inc.                      Ti-SALES, Inc.

**GAUGES**

Stonkus Hydraulics

**HYDRANTS & VALVES**

E.J. Prescott, Inc.                      Ti-SALES, Inc.

**HYDRANT MARKERS**

E.J. Prescott, Inc.                      Stiles Co Inc.                                      Ti-SALES, Inc.

**HYDRANT PUMPS**

E.J. Prescott, Inc.                      Ti-SALES, Inc.

**INSTRUMENTS**

BAU-HOPKINS                      Technology Sales

**LEAD SUBSTITUTES**

Stiles Co Inc.

**LOCATING INSTRUMENTS**

E.J. Prescott, Inc.                      Stiles Co Inc.                                      Ti-SALES, Inc.

**MANHOLE FRAMES & COVERS**

E.J. Prescott, Inc.                      Ti-SALES, Inc.

**MECHANICAL JOINT MATERIALS**

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**METER - SETTINGS**

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Ti-SALES, Inc.

**METER - WATER**

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**PAINT**

Stiles Co Inc.                              Ti-SALES, Inc.

**PIPE - BRASS & COPPER**

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**PIPE - DUCTILE IRON**

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**PIPE LINING**

E.J. Prescott, Inc.

**PIPE CUTTERS**

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**PRESSURE REGULATING VALVES**

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Technology Sales                      Ti-SALES, Inc.

**PUMP CONTROL EQUIPMENT**

Smith Pump Co.                              Stonkus Hydraulics

**PUMPS - CHEMICAL FEED**

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Ti-SALES, Inc.

**PUMPS - DITCH**

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**PUMPS - PORTABLE**

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**PURIFICATION EQUIPMENT**

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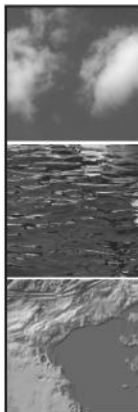
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