**Raquel J. Webster**
Senior Counsel

March 19, 2015

**BY HAND DELIVERY AND ELECTRONIC MAIL**

Luly E. Massaro, Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

**RE: Docket 4540 – National Grid's Proposed FY 2016 Gas Infrastructure, Safety, and Reliability Plan**
**Responses to PUC Data Requests – Set 2**

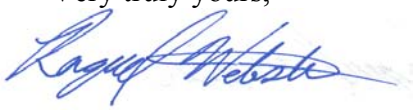
Dear Ms. Massaro:

I have enclosed ten (10) copies of National Grid's[1] responses to the Rhode Island Public Utilities Commission's Second Set of Data Requests issued in the above-referenced matter.

Pursuant to PUC Rule 1.2(g), the Company is seeking confidential treatment of customer-specific information in Attachments PUC 2-8-1 and 2-8-2. The Company is submitting a Motion for Protective Treatment and one (1) copy of the confidential attachments noted above in an envelope marked, **"Contains Confidential Information – Do Not Release."**

Thank you for your attention to this transmittal. If you have any questions, please contact me at 781-907-2121.

Very truly yours,



Raquel J. Webster

Enclosures

cc: Docket 4540 Service List
Steve Scialabba
Leo Wold, Esq.
Jim Lanni
Don Ledversis

[1] The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

40 Sylvan Road, Waltham, MA 02451
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Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate was electronically transmitted to the individuals listed below.

Copies of this filing are being hand delivered to the Rhode Island Public Utilities Commission and the Rhode Island Division of Public Utilities and Carriers.

Joanne M. Scanlon

March 19, 2015
Date

**Docket No. 4540 - National Grid's FY 2016 Gas Infrastructure, Safety and Reliability (ISR) Plan - Service List 1/8/15**

| Name/Address | E-mail Distribution | Phone |
|---|---|---|
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| **File an original & nine (9) copies w/:**<br>Luly E. Massaro, Commission Clerk<br>Public Utilities Commission<br>89 Jefferson Blvd.<br>Warwick RI 02888 | Luly.massaro@puc.ri.gov<br>Todd.bianco@puc.ri.gov<br>Patricia.Lucarelli@puc.ri.gov<br>Sharon.ColbyCamara@puc.ri.gov | 401-780-2107 |
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**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS**
**RHODE ISLAND PUBLIC UTILITIES COMMISSION**

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**FY 2016 Proposed Gas ISR Plan** **Docket No. 4540**

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**NATIONAL GRID'S MOTION FOR PROTECTIVE TREATMENT**
**OF CONFIDENTIAL INFORMATION**

National Grid[1] respectfully requests that the Rhode Island Public Utilities Commission (PUC) provide confidential treatment and grant protection from public disclosure certain confidential information submitted in this proceeding, as permitted by PUC Rule 1.2(g) and R.I. Gen. Laws § 38-2-2(4)(B). National Grid also respectfully requests that, pending entry of that finding, the PUC preliminarily grant National Grid's request for confidential treatment pursuant to Rule 1.2 (g)(2).

## I. BACKGROUND

On March 19, 2014, National Grid filed with the PUC its responses to the PUC's Second Set of Data Requests in this matter. In PUC Data Request No. 2-8, the PUC requests that the Company provide a list of soft off closures for gas that are greater than one year and the total amount of dollars associated with these accounts. In responding to this data request, the Company has included two documents identified as Attachment PUC 2-8-1 and Attachment PUC 2-8-2. These attachments include confidential customer-specific information regarding meter numbers and premises - information that National Grid has used to identify customers and their accounts. Customer-specific

[1] The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

information is proprietary to the customer, and only customers have the right to indicate whether their information should be disclosed to the public. Therefore, the Company seeks protection for the customer-specific information included in Attachments PUC 2-8-1 and PUC 2-8-2. For the PUC's review, the Company has provided confidential versions and redacted public versions of these attachments.

## II. LEGAL STANDARD

The PUC's Rule 1.2(g) provides that access to public records shall be granted in accordance with the Access to Public Records Act (APRA), R.I. Gen. Laws § 38-2-1 *et seq.* Under the APRA, all documents and materials submitted in connection with the transaction of official business by an agency is considered a "public record" unless the information contained in such documents and materials falls within one of the exceptions specifically identified in R.I. Gen. Laws. § 38-2-2(4). Therefore, to the extent that information provided to the PUC falls within one of the designated exceptions to the public records law, the PUC has the authority under the terms of the APRA to treat such information as confidential and to protect that information from public disclosure.

In that regard, R.I. Gen. Laws. § 38-2-2(4)(B) provides that the following types of records shall not be deemed public:

> Trade secrets and commercial or financial information obtained from a person, firm, or corporation which is of a privileged or confidential nature.

The Rhode Island Supreme Court has held that this confidential information exemption applies where disclosure of information would likely either (1) impair the Government's ability to obtain necessary information in the future; or (2) cause substantial harm to the competitive position of the person from whom the information

was obtained. Providence Journal Company v. Convention Center Authority, 774 A.2d 40 (R.I. 2001).

The first prong of the test is satisfied when information is provided voluntarily to the governmental agency and that information is of a kind that would customarily not be released to the public by the person from whom it was obtained. Providence Journal, 774 A.2d at 47. The customer-specific information included in Attachments PUC 2-8-1 and PUC 2-8-2 meets this test.

## II. BASIS FOR CONFIDENTIALITY

As noted above, Attachments PUC 2-8-1 and PUC 2-8-2 are confidential because they include customer-specific information regarding meter numbers and premises - information that National Grid has used to identify customers and their accounts. The Company treats such information as confidential and proprietary and does not customarily disclose such information to the public. Indeed, the Company's customers expect that National Grid will maintain this type of information on a confidential basis and that it will not be subject to public disclosure. Moreover, the PUC has recognized customers' rights to control dissemination of their account information and other personal information and has therefore, granted protective treatment to customer-identifying information. In short, public disclosure of the customer-identifying information included in Attachments PUC 2-8-1 and PUC 2-8-2 would substantially harm National Grid's customers who have not consented to the public disclosure of their information.

## III. CONCLUSION

Accordingly, National Grid respectfully requests that the PUC grant protective treatment to confidential Attachments PUC 2-8-1 and PUC 2-8-2.

Respectfully submitted,

**NATIONAL GRID**

By its attorneys,

Raquel J. Webster, RI Bar # 9064
National Grid
40 Sylvan Road
Waltham, MA 02451
(781)-907-2121

Dated: March 19, 2015

PUC 2-1

Request:

As requested in PUC 1-4 issued on January 28, 2015, please describe in detail the various methods used to detect leaks. Please be specific in describing the steps in the survey process and how that occurs. Include the steps taken after the survey is complete identifying individuals and/or job titles involved in the process.

Response:

The Company identifies gas leaks through two primary means: leak surveys performed by the Company and odor calls received from the general public. The Company performs a number of different types of leak surveys as identified in the Company's response to PUC 1-4.

Each year, the Company identifies the inventory of mains and services for the upcoming surveys and the Company and contractor resources required to conduct the annual leak surveys. The Company also provides training to the personnel who have been identified to perform the work. Next, the Company assembles work packages and provides them to the leak survey personnel performing the assigned work. Current resources consist of Leak Survey Technicians provided by Premier Utility Service's contractor and National Grid Construction &Maintenance and Customer Meter Service (CMS) Field Technicians. Work packages may consist of both electronic and paper-based information. These typically include electronic input devices to collect survey data and Geographical Information System maps for reference. The Company also provides various blank forms to the personnel performing the leak surveys for input purposes, such as leak reports for ground leaks, monitoring sheets for leak surveillance, service orders, and other miscellaneous forms.

Personnel conducting leak surveys use mobile and/or handheld leak detection equipment, as more specifically described below. Personnel drive the route of gas facilities assigned for survey using vehicles upon which mobile equipment is mounted. Personnel performing a walking survey use handheld equipment as they walk the route of facilities assigned or to provide more detailed leak investigation.
Specifically, the mobile leak detection equipment used is:

1) Flame Ionization Unit (FIU) – Parts per million (PPM) – external use only
   - Heath model DP3 or DP4
   - Dafrol FIU

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PUC 2-1, page 2

Handheld leak detection equipment includes the following:

1) Flame Ionization Unit (FIU) – Parts per million (PPM) – external use only
   - Heath model DP3 or DP4
   - Dafrol FIU

2) Bascom Turner Rover – PPM and Percent Gas – internal and external use

3) Combustible Gas Indicator (CGI) - Percent Gas – internal and external use
   - Bascom Turner - Sentry, Ranger or Explorer
   - Gas Measurement Instruments (GMI) - Gas Surveyor

The Company further investigates gas leaks that are identified by leak survey and grades them based on the Company's leak grade procedures. The Company provides leaks requiring immediate attention to a first responder for remediation at the time the leaks are discovered. Completed paperwork is provided to the appropriate Company personnel. Non-emergency underground leak and meter information is provided to a designated CMS Supervisor or a designated Corrosion employee for follow-up.

The Company's CMS personnel respond to odor calls received from the general public. CMS personnel responding to odor calls perform an investigation and classify and respond to leaks in accordance with relevant procedures outlined in the Company's response to PUC 1-5.

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PUC 2-2

Request:

Why has the Company only received 50% of the reimbursements it is entitled to for 2015? Does the Company anticipate receiving the remaining 50% and if so, when?

Response:

The Company has performed work associated with reimbursable projects throughout the course of the construction season. During the course of the construction period, the Company reviews, processes, and approves all relevant project information, including vendor and contractor invoices along with Company charges. Following completion of the work and final review of all relevant project information, the Company compiles a reimbursement request and issues it to the applicable organization. Upon receipt of payment, the Company credits the funds to the project. The Company typically receives payment for reimbursements six to twelve months following full completion a project, resulting in a lag between the time of project spend and the receipt of payment.

Further, the rates of reimbursement (e.g., 50%, 100%) for specific projects vary depending on the project sponsor and legal and contractual obligations. As a result of the lag in the billing cycle and the execution of partial reimbursement contracts, the annual reimbursement amount does not traditionally align with the spending schedule. The Company anticipates receiving the majority of outstanding payment for the work performed in fiscal year 2015 over the period of the next six to twelve months.

Prepared by or under the supervision of: David G. Iseler

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PUC 2-3

Request:

Please provide a CSV file with the information requested in PUC 1-16 from 2013 to the present, per the Company's ENG04030 prioritization procedure.

Response:

Please see Attachment PUC 2-3.

Prepared by or under the supervision of: David G. Iseler

## HIGHEST RANKED RISKS and DIMP Factor-2013

**Updated as of 11/25/2014**

**STATE: RHODE ISLAND**
**REGION: ALL**
**FACILITY: MAINS**

**Mitigation Will Be As Per Appendix D, Except As Otherwise Indicated In Notes**

| Material | Pressure | Diameter | Mileage | Risk Score | Threat Category | Additional Mitigation Notes | DIMP Factor |
|---|---|---|---|---|---|---|---|
| Cast Iron | LP | 4" Thru 8" | 701.77 | 2.05 | NATURAL FORCE | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 3.00 |
| Wrought Iron | LP | 4" Thru 8" | 0.14 | 2.05 | NATURAL FORCE / CORROSION | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 3.00 |
| UnprotectedBare Steel | > 60 PSI,Not T | Upto 4" | 1.64 | 3.77 | CORROSION / NATURAL FORCE | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 3.00 |
| UnprotectedBare Steel | > 60 PSI,Not T | Over 4" Thru 8" | 0.87 | 3.77 | CORROSION / NATURAL FORCE | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 3.00 |
| UnprotectedBare Steel | > 60 PSI,Not T | Over 8" | 2.05 | 3.77 | CORROSION | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 3.00 |
| UnprotectedBare Steel | HP | Upto 4" | 176.76 | 2.98 | CORROSION | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 2.37 |
| UnprotectedBare Steel | HP | Over 4" Thru 8" | 29.55 | 2.98 | CORROSION | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 2.37 |
| UnprotectedBare Steel | HP | Over 8" | 4.01 | 2.98 | CORROSION | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 2.37 |
| Cast Iron | HP | Under 4" | 0.01 | 2.70 | NATURAL FORCE | Schedule Replacement When Exposed Or Within Public Works. An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 2.15 |
| Wrought Iron | HP | Under 4" | 0.12 | 2.70 | NATURAL FORCE | Schedule Replacement When Exposed Or Within Public Works. An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 2.15 |
| Cast Iron | HP | 4" Thru 8" | 8.70 | 2.68 | NATURAL FORCE | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 2.13 |
| UnprotectedCoated Steel | > 60 PSI,Not T | Upto 4" | 1.57 | 2.25 | CORROSION | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.79 |
| UnprotectedCoated Steel | > 60 PSI,Not T | Over 4" Thru 8" | 1.42 | 2.25 | CORROSION | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.79 |
| UnprotectedCoated Steel | > 60 PSI,Not T | Over 8" | 4.22 | 2.25 | CORROSION | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.79 |
| Plastic | > 60 PSI,Not T | Upto 4" | 46.37 | 2.20 | MATERIAL/WELD | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.75 |
| Plastic | > 60 PSI,Not T | Over 4" Thru 8" | 21.57 | 2.20 | MATERIAL/WELD | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.75 |
| Plastic | > 60 PSI,Not T | Over 8" | 0.15 | 2.20 | MATERIAL/WELD | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.75 |
| Ductile Iron | HP | Over 4" Thru 8" | 0.81 | 2.20 | NATURAL FORCE / CORROSION | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.75 |
| Cast Iron | LP | Under 4" | 7.73 | 2.13 | NATURAL FORCE | Schedule Replacement When Exposed Or Within Public Works. An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.70 |
| Wrought Iron | LP | Under 4" | 1.19 | 2.13 | NATURAL FORCE | Schedule Replacement When Exposed Or Within Public Works. An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.70 |
| UnprotectedBare Steel | LP | Upto 4" | 53.69 | 2.08 | CORROSION | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.66 |
| UnprotectedBare Steel | LP | Over 4" Thru 8" | 47.81 | 2.08 | CORROSION | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.66 |
| UnprotectedBare Steel | LP | Over 8" | 3.47 | 2.08 | CORROSION | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.66 |
| Cast Iron | HP | Over 8" | 16.45 | 2.01 | NATURAL FORCE | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.60 |
| Ductile Iron | LP | Upto 4" | 6.89 | 1.71 | NATURAL FORCE | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.36 |
| Ductile Iron | LP | Over 4" Thru 8" | 7.78 | 1.65 | NATURAL FORCE | An additional factor will be applied to the replacement qualification and prioritization algorithm to account for this asset's DIMP risk ranking | 1.31 |

| Project # | Slotted FY | Work Order # | Initial Date of Identification | Date of Analysis | Evaluating Engineer | Division | Town | Street | From | To | Address Range | System Pressure (PSIG) | CP System | Exst Diameter (Inches) | YOI | Relay Footage Length of main to be Installed | Install Footage Length of main to be installed | Abandon Footage Length of main to be abandoned | Cluster Footage Distance from first leak to the last leak in the 'cluster' | Building Consequnce Factor If there are no buildings in the area = 0 If there are only single family homes = 1 If there are small builings (multi-family, strip malls, etc) = 1.2 If there are public buildings (school, church, hospital, etc) = 1.5 | DIMP Factor see DIMP Factors List (updated 11/25/2014) | X Total Leak Repairs | Total Open Workables | Total Open Non-Workables | Prioritization Factor (Pr) If the Pr Factor is greater than 12, the segment is considered 'actively corroding'. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1140 | 2015 | 90000142773 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Bristol | Monroe St, Oliver st | Franklin St | Bay View Ave | 9-50 | Lp to 8# | | 2 | 1940 | 1235 | 1235 | 1235 | 500 | 1.0 | 3.0 | 2 | 2 | 0 | 4.67 |
| 1608 | 2015 | 90000142280 | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Central Falls | Cross St | Hawes St | Dexter | 133-185 | LP | | 4 | 1940 | 2258 | 2255 | 2255 | 500 | 1.5 | 3.0 | 6 | 2 | 0 | 24.00 |
| 1609 | 2015 | 90000142742 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Central Falls | Pacific St | Broad St | Washington St | 45-85 | LP | | 4 | 1940 | 690 | 690 | 690 | 500 | 1.2 | 3.0 | 2 | 0 | 0 | 10.30 |
| 1356 | 2015 | 90000142821 | 3/26/2014 | 3/26/2014 | N VanWinkle | RI | Cranston | Brewster Rd | Pontiac Ave | Basswood Rd | 11-39 | LP | | 6 | 1937 | 1500 | 1530 | 1530 | 500 | 1.2 | 3.0 | 4 | 2 | 0 | 14.70 |
| 1349 | 2015 | 90000142828 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Cranston | Dyer Ave | Puritan Ave | #818 | 681-818 | LP & 7# | | 4,6 | 1886 | 2870 | 2870 | 4440 | 500 | 1.5 | 3.0 | 6 | 0 | 0 | 22.00 |
| 1350 | 2015 | 90000142836 | 3/26/2014 | 3/26/2014 | N VanWinkle | RI | Cranston | Elwyn St | Princess Ave | #175 Elwyn St | 152-175 | LP | | 6 | 1957 | 760 | 760 | 760 | 500 | 1.5 | 3.0 | 2 | 0 | 0 | 14.00 |
| 1346 | 2015 | 90000142784 | 3/26/2014 | 3/26/2014 | N VanWinkle | RI | Cranston | Gordon St | Harmon Ave | #33 Gordon St | 17-137 | LP to 7# | | 6 | 1913 | 3330 | 3805 | 4260 | 500 | 1.0 | 3.0 | 12 | 1 | 0 | 17.67 |
| 1353 | 2015 | 90000142845 | 3/26/2014 | 3/26/2014 | N VanWinkle | RI | Cranston | Overhill | North St | South St | 38-40 | LP | | 4 | 1907 | 3090 | 3035 | 3035 | 500 | 1.0 | 3.0 | 8 | 2 | 0 | 15.67 |
| 1354 | 2015 | 90000142852 | 3/26/2014 | 3/26/2014 | N VanWinkle | RI | Cranston | Rockwood Ave | Holland St | EOM | 30-131 | LP | | 6 | 1946 | 2630 | 2630 | 2630 | 500 | 1.0 | 3.0 | 13 | 4 | 0 | 18.83 |
| 1355 | 2015 | 90000142858 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Cranston | Shaw Ave | Braod St | Narraganset Ave | 73-196 | LP | | 4 | 1886 | 1835 | 1835 | 1835 | 600 | 1.5 | 3.0 | 5 | 3 | 0 | 18.63 |
| 1359 | 2015 | 90000142829 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Cumberland | Hewes St | Ingraham St | Clark St | 73-116 | LP | | 4 | 1960 | 2470 | 2470 | 2470 | 500 | 1.2 | 3.0 | 4 | 0 | 0 | 16.20 |
| 1360 | 2015 | 90000142835 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Cumberland | Kinsman St | #23 | #6 | 6-23 | LP | | 4 | 1940 | 770 | 770 | 770 | 500 | 1.2 | 3.0 | 3 | 1 | 0 | 10.10 |
| 1361 | 2015 | 90000142844 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Cumberland | Williams St | Mowry St | Old Willis Rd | 170-250 | LP | | 4 | 1940 | 1820 | 1500 | 1500 | 500 | 1.0 | 3.0 | 4 | 1 | 0 | 12.17 |
| 1602 | 2015 | 90000142719 | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | East Providence | Deer St | Newport Ave | Toner St | 130-160 | LP | | 2 | 1942 | 265 | 265 | 265 | 500 | 1.2 | 1.0 | 3 | 0 | 0 | 11.20 |
| 1363 | 2015 | 90000142721 | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | East Providence | Harzard Ave | Pawtucket Ave | #105 Hazard Ave | 14-105 | LP to 8# | | 4 | 1914 | 2205 | 3660 | 3345 | 540 | 1.2 | 1.0 | 7 | 2 | 0 | 13.69 |
| 1365 | 2015 | 90000142727 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | East Providence | Morris Ave | Pawtucket Ave | EOM | 22 | LP | | 4 | 1955 | 225 | 225 | 185 | 225 | 1.0 | 3.0 | 1 | 0 | 0 | 7.44 |
| 1525 | 2015 | 90000142714 | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | East Providence | N Broadway | Willmarth Ave | #741 N Broadway | 635-741 | LP to 99# | | 6,4 | 1911 | 5930 | 6000 | 6215 | 500 | 1.5 | 1.0 | 23 | 5 | 0 | 7.25 |
| 1366 | 2015 | 90000142729 | 3/27/2014 | 3/27/2014 | N VanWinkle | RI | East Providence | Orchard St | Broadway | Henrry St | 106-239 | LP | | 6 | 1934 | 3755 | 3235 | 3235 | 500 | 1.5 | 3.0 | 5 | 4 | 0 | 14.00 |
| 971 | 2015 | 90000142735 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | East Providence | Patwtucket Ave, Vincent Ave - Sect 3 | Vincent Ave | Veterans Mem Pkwy | 2761-3044 | 5# | | 6 | 1912 | 5240 | 4965 | 5240 | 500 | 1.5 | 1.0 | 5 | 0 | 0 | 16.50 |
| 973 | 2015 | 90000116872 | 1/1/2012 | 1/1/2012 | N VanWinkle | RI | East Providence | Pawtucket Ave | #3645 | White Squadren Rd | 3393-3645 | #5 | | 6 | 1912 | 2240 | 2240 | 2240 | 1100 | 1.5 | 3.0 | 7 | 0 | 0 | 10.50 |
| 1369 | 2015 | 90000142733 | 3/27/2014 | 3/27/2014 | N VanWinkle | RI | East Providence | Warren Ave (section 1) | S Broadway St | Brown St | 337-531 | LP | | 6,4 | 1913 | 3695 | 2815 | 3875 | 525 | 1.2 | 3.0 | 11 | 3 | 0 | 28.81 |
| 1370 | 2015 | 90000142740 | 3/27/2014 | 3/27/2014 | N VanWinkle | RI | East Providence | Warren Ave (section 2) | Pawtucket Ave | Brown St | 535-619 | LP | | 6,4 | 1913 | 4850 | 4650 | 4775 | 500 | 1.2 | 3.0 | 3 | 2 | 0 | 11.00 |
| 1606 | 2015 | 90000142774 | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Johnston | Manuel Ave | Phoebe St | EOM | 1-105 | LP | | 6 | 1948 | 1405 | 1405 | 1405 | 500 | 1.0 | 3.0 | 2 | 2 | 0 | 9.83 |
| 1484 | 2015 | 90000142777 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Johnston | Oakland Ave | Killingly St | EOM | 5-22 | LP | | 6 | 1947 | 585 | 585 | 585 | 500 | 1.0 | 3.0 | 2 | 0 | 0 | 9.50 |
| 1485 | 2015 | 90000142781 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Johnston | Plainfield St | Morgan Ave | Walnut St | 1073-1209 | LP | | 8,4 | 1910 | 4470 | 3820 | 3820 | 500 | 1.5 | 3.0 | 9 | 1 | 0 | 15.00 |
| 1479 | 2015 | 90000142700 | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Lincoln | Edendale Dr | Grove St | Arlington Dr | 1-23 | LP | | 6 | 1955 | 1545 | 2005 | 2005 | 500 | 1.0 | 3.0 | 4 | 1 | 0 | 15.83 |
| 1481 | 2015 | 90000142709 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Lincoln | Smithfield Ave | Chapel St | EOM | 1431-1530 | LP | | 4 | 1940 | 2080 | 2010 | 2010 | 500 | 1.2 | 3.0 | 5 | 2 | 0 | 13.40 |
| 946 | 2015 | 90000118388 | 1/1/2011 | 1/8/2015 | N VanWinkle | RI | Middletown | E Main | #566 | #741 | 566-741 | 10# | | 4 | 1947 | 1990 | 1990 | 2100 | 500 | 1.0 | 0.0 | 2 | 0 | 0 | 2.50 |
| 1372 | 2015 | 90000142702 | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Newport | Parker Ave | Bellevue Ave | Middletown Ave | 15-43 | LP to 10# | | 4 | 1940 | 1505 | 150 | 1505 | 500 | 1.2 | 3.0 | 2 | 0 | 0 | 8.80 |
| 1373 | 2015 | 90000142705 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Newport | Spring St | Bull St | Touro St | 8-56 | LP | | 8,4 | 1940 | 690 | 690 | 690 | 500 | 1.5 | 3.0 | 1 | 0 | 0 | 13.00 |
| 1488 | 2015 | 90000142696 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | North Providence | Mineral Springs Ave | Joslin St | Smith St | 2031-2161 | LP | | 4, 8 | 1915 | 2793 | 2795 | 2795 | 500 | 1.2 | 3.0 | 23 | 5 | 0 | 22.00 |
| 1487 | 2015 | 90000142692 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | North Providence | Mineral Springs Ave | Douglas Ave | Lexington Ave | 1543-1650 | LP | | 6 | 1954 | 2510 | 2410 | 3650 | 500 | 1.5 | 3.0 | 2 | 0 | 0 | 13.00 |
| 1489 | 2015 | 90000142698 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | North Providence | Smith St, Belvedere Bl | Belvedere BL | Homewood Ave | 1370-1535 | LP | | 6 | 1913 | 3195 | 3195 | 3195 | 500 | 1.5 | 3.0 | 7 | 7 | 0 | 16.00 |
| 1490 | 2015 | 90000143034 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | North Providence | Towanda Dr | Fruit Hill Ave | Monongahela Ave | 9-53 | LP | | 6 | 1940 | 2440 | 1965 | 2680 | 500 | 1.2 | 1.0 | 6 | 1 | 0 | 8.00 |
| 1649 | 2015 | 90000152058 | 1/29/2015 | 1/29/2015 | N VanWinkle | RI | Pawtucket | Aiken St | Kenyon Ave | EOM | 3-34 | LP | | 2,4 | 1940 | 470 | 575 | 470 | N/A | 1.0 | 1.2 | 0 | 0 | 0 | PW |
| 1613 | 2015 | 90000145789 | 9/1/2014 | 9/1/2014 | N VanWinkle | RI | Pawtucket | Cherry St | Barton St | EOM | 6-10 | LP | | 2,3 | 1940 | 210 | 210 | 210 | 500 | 1.5 | 3.0 | 3 | 0 | 0 | 13.50 |
| 1514 | 2015 | 90000142685 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Oregon St | Kenmore St | Mainstee | 15-175 | LP to 10# | | 4 | 1940 | 3105 | 3010 | 3010 | 500 | 1.2 | 3.0 | 3 | 1 | 0 | 16.20 |
| 1650 | 2015 | 90000152055 | 1/29/2015 | 1/29/2015 | N VanWinkle | RI | Pawtucket | Waldo | Clyde St | Pawtucket Ave | 12-48 | LP | | 2,4 | 1940 | 1565 | 1565 | 1565 | 500 | 1.2 | 3.0 | 4 | 0 | 0 | PW |
| 1461 | 2015 | 90000143088 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | 6th | Brewster St | Hope St | 137-176 | LP | | 4 | 1899 | 689 | 680 | 680 | 500 | 1.2 | 3.0 | 4 | 1 | 0 | 15.90 |
| 1527 | 2015 | 90000142604 | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Adelphi Ave | Wayland Ave | Taber Ave | 10-51 | LP to 99# | | 4 | 1954 | 1465 | 1465 | 1465 | 500 | 1.2 | 3.0 | 3 | 1 | 0 | 10.30 |
| 1402 | 2015 | 90000143077 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Argol 1 | Edgeworth Ave | De Pinedo St | 28-121 | LP to 99# | | 4,6 | 1948 | 2320 | 2220 | 2085 | 500 | 1.2 | 3.0 | 6 | 3 | 0 | 10.50 |
| 1409 | 2015 | 90000142607 | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Broadway | Harkness St | #565 | 482-565 | LP | | 6 | 1895 | 1115 | 2010 | 2190 | 500 | 1.2 | 3.0 | 4 | 1 | 0 | 17.20 |
| 1410 | 2015 | 90000142614 | 3/28/2014 | 3/28/2014 | N VanWinkle | RI | Providence | Brown St | Barnes St | Olney St | 91-216 | LP to 99# | | 4 | 1900 | 1775 | 1775 | 2000 | 500 | 1.5 | 3.0 | 5 | 1 | 0 | 16.50 |
| 1526 | 2015 | 90000142618 | 3/28/2014 | 3/28/2014 | N VanWinkle | RI | Providence | Charles St | Raphael St | Hagan St | 762-822 | LP | | 6 | 1910 | 2255 | 2255 | 2255 | 500 | 1.2 | 3.0 | 8 | 2 | 0 | 14.50 |
| 1418 | 2015 | 90000143073 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Cushing St | Congdon St | Brown St | 5-95 | LP | | 4 | 1888 | 1705 | 1645 | 1645 | 500 | 1.5 | 3.0 | 8 | 2 | 0 | 24.00 |
| 1420 | 2015 | 90000142626 | 3/28/2014 | 3/28/2014 | N VanWinkle | RI | Providence | Douglas Ave | Mowry St | Eaton St | 392-496 | LP | | 6 | 1907 | 2835 | 2690 | 2835 | 500 | 1.5 | 3.0 | 6 | 3 | 0 | 24.75 |
| 1428 | 2015 | 90000142630 | 3/28/2014 | 3/28/2014 | N VanWinkle | RI | Providence | Early St | Nagara St | Broad St | 124-226 | LP to 7# | | 4 | 1893 | 0 | 0 | 1250 | 500 | 1.5 | 3.0 | 6 | 1 | 0 | 14.25 |
| 1528 | 2015 | 90000142634 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Eastwood Ave | Merino St | Heath St | 85-249 | LP | | 4,6 | 1897 | 2700 | 2700 | 2700 | 500 | 1.5 | 0.0 | 12 | 2 | 0 | 27.00 |
| 1429 | 2015 | 90000142636 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Edward St | Northup Ave | EOM | 12-44 | LP to 99# | | 6 | 1925 | 415 | 415 | 375 | 375 | 1.0 | 3.0 | 3 | 0 | 0 | 14.78 |
| 1423 | 2015 | 90000143080 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Enfield Ave | Eaton St | Walton St | 10-100 | LP to 35# | | 6 | 1925 | 2680 | 3830 | 3705 | 500 | 1.2 | 3.0 | 8 | 4 | 0 | 15.40 |
| 1424 | 2015 | 90000142686 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Farm St | Minto St | Webb St | 46-84 | LP | | 6 | 1952 | 1205 | 1110 | 1110 | 500 | 1.2 | 3.0 | 3 | 1 | 0 | 14.70 |
| 1532 | 2015 | 90000142688 | 3/28/2014 | 3/28/2014 | N VanWinkle | RI | Providence | Friendship St | Richmond St | Eddy St | 80-91 | LP to 99# | | 6 | 1913 | 1160 | 1740 | 1740 | 500 | 1.5 | 3.0 | 7 | 0 | 0 | 18.75 |
| 1432 | 2015 | 90000142564 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Gano St | Amy St | Angell St | 194-277 | LP to 35# | | 4 | 1887 | 3705 | 3645 | 3415 | 500 | 1.2 | 3.0 | 9 | 2 | 0 | 13.60 |
| 1436.1 | 2015 | 90000142585 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Grotto Ave (part 1) | Loring Ave | Upton Ave | 91-151 | LP to 99# | | 4,6 | 1894 | 3385 | 2585 | 5620 | 500 | 1.0 | 3.0 | 10 | 8 | 0 | 13.67 |
| 1436.2 | 2015 | 90000142581 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Grotto Ave (part 2) | Loring Ave | Irving Ave | 10-91 | LP to 99# | | 4,6 | 1894 | 1885 | 805 | 1885 | 500 | 1.0 | 3.0 | 10 | 8 | 0 | 13.67 |
| 1438 | 2015 | 90000142590 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Harris | Providence Pl | Atwells Ave | 96-519 | LP to 99# | | 12, 6 | 1895 | 6615 | 7020 | 6730 | 500 | 1.2 | 0.0 | 19 | 3 | 0 | 19.70 |
| 1603 | 2015 | 90000142594 | 5/30/2014 | 5/30/2014 | N VanWinkle | RI | Providence | Holden St | Smith St | Promanade St | 24-122 | LP to 35# | | 6 | 1889 | 1830 | 2155 | 3975 | 500 | 1.2 | 3.0 | 2 | 0 | 0 | 6.70 |
| 1441 | 2015 | 90000142600 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Isabella Ave | Longwood Ave | #94 Isabella St | 99-210 | LP to 35# | | 6 | 1928 | 4890 | 4890 | 4890 | 500 | 1.2 | 3.0 | 4 | 5 | 0 | 8.70 |
| 1444 | 2015 | 90000143084 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | James St | S Main st | Benefit St | 17-22 | LP | | 4 | 1911 | 325 | 375 | 325 | 325 | 1.0 | 3.0 | 2 | 0 | 0 | 15.31 |
| 1452 | 2015 | 90000142441 | 1/30/2015 | 1/30/2015 | N VanWinkle | RI | Providence | Montague St | Hope St | Morris Ave | 4-48 | LP to 99# | | 4 | 1907 | 2690 | 2115 | 2840 | 500 | 1.5 | 3.0 | 5 | 4 | 0 | 27.00 |
| 1454 | 2015 | 90000142447 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Morgan St | Margaret St | EOM | 10-29 | LP | | 4 | 1892 | 510 | 510 | 510 | 500 | 1.2 | 3.0 | 3 | 0 | 0 | 12.90 |
| 1455 | 2015 | 90000142457 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Morris Ave | Savoy St | Rochambeau Ave | 430-509 | LP | | 4 | 1898 | 2250 | 2250 | 2250 | 500 | 1.2 | 3.0 | 8 | 1 | 0 | 18.30 |
| 1535 | 2015 | 90000142468 | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Oxford | Eddy St | EOM | 72-100 | LP | | 6 | 1902 | 0 | 0 | 640 | 500 | 1.0 | 3.0 | 3 | 1 | 0 | 13.50 |

| Project # | Slotted FY | Work Order # | Initial Date of Identification | Date of Analysis | Evaluating Engineer | Division | Town | Street | From | To | Address Range | System Pressure (PSIG) | CP System | Exst Diameter (Inches) | YOI | Relay Footage Length of main to be Installed | Install Footage Length of main to be installed | Abandon Footage Length of main to be abandoned | Cluster Footage Distance from first leak to the last leak in the 'cluster' | Building Consequnce Factor If there are no buildings in the area = 0 If there are only single family homes = 1 If there are small builings (multi-family, strip malls, etc) = 1.2 If there are public buildings (school, church, hospital, etc) = 1.5 | DIMP Factor see DIMP Factors List (updated 11/25/2014) | X Total Leak Repairs | Total Open Workables | Total Open Non-Workables | Prioritization Factor (Pr) If the Pr Factor is greater than 12, the segment is considered 'actively corroding'. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1139 | 2015 | 90000142466 | 1/1/2013 | 5/29/2014 | N VanWinkle | RI | Providence | Oxford St | Eddy St | Miner St | 131-226 | LP & 10# | | 4 | 1870 | 3115 | 3120 | 3120 | 500 | 1.5 | 3.0 | 14 | 6 | 0 | 39.00 |
| 1536 | 2015 | 90000142471 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Pratt St | Halsey St | S Court St | 31-169 | LP to 99# | | 4 | 1890 | 1650 | 2215 | 2215 | 500 | 1.2 | 3.0 | 5 | 1 | 0 | 12.70 |
| 1540 | 2015 | 90000143086 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Public St | Broad st | Milton St | 558-646 | Lp | | 6 | 1888 | 1350 | 1350 | 1350 | 650 | 1.5 | 3.0 | 6 | 1 | 0 | 19.92 |
| 1459 | 2015 | 90000142525 | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Roger Williams Ct | Elmwood Ave | EOM | 50-81 | LP | | 3 | 1859 | 515 | 430 | 515 | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| 1458 | 2015 | 90000142519 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Rounds St | Narragansett Ave | Reservior Ave | 6-210 | LP to 7# | | 4 | 1912 | 1810 | 1810 | 1810 | 600 | 1.2 | 3.0 | 9 | 1 | 0 | 15.58 |
| 1466 | 2015 | 90000142530 | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Smith St 2 | Nelson St | Modena Ave | 999-1089 | LP | | 8,6 | 1908 | 2790 | 2660 | 2790 | 500 | 1.5 | 3.0 | 7 | 0 | 0 | 21.50 |
| 306 | 2015 | 90000073654 | 1/1/2010 | 2/26/2014 | N VanWinkle | RI | Providence | Westminster St | Stewart St | Cranston St | 674-885 | LP | | 12 | 1870 | 1755 | 1755 | 1755 | 500 | 1.5 | 1.0 | 11 | 0 | 0 | 23.00 |
| 1133 | 2015 | 90000142535 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Providence | Weybosset St | Chestnut St | Eddy St | 125-300 | LP to 35# | | 6,12 | 1892 | 5130 | 3535 | 5615 | 500 | 1.5 | 3.0 | 17 | 1 | 0 | 13.00 |
| 1474 | 2015 | 90000142544 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Wickenden St | Traverse St | #520 Wickenden St | 200-520 | LP | | 4 | 1897 | 2040 | 2040 | 2040 | 500 | 1.5 | 3.0 | 6 | 1 | 0 | 15.25 |
| 1604 | 2015 | 90000142693 | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Smithfield | Gladstone | Waterman St | #29 Gladstone | 4-28 | LP | | 4 | 1915 | 1245 | 1245 | 1120 | 500 | 1.0 | 3.0 | 6 | 1 | 0 | 13.00 |
| 1593 | 2015 | 90000142536 | 5/15/2014 | 5/15/2014 | N VanWinkle | RI | Warwick | Elm St | #416 | #240 | 240-416 | LP to 35# | | 4 | 1912 | 4040 | 4030 | 3555 | 500 | 1.5 | 0.0 | 5 | 3 | 0 | 4.25 |
| 1389 | 2015 | 90000142430 | 3/28/2014 | 3/28/2014 | N VanWinkle | RI | Woonsocket | Knight St | Capwell Ave | Logee St | 27-135 | LP | | 4 | 1940 | 2595 | 2565 | 2295 | 500 | 1.2 | 3.0 | 3 | 3 | 0 | 13.80 |
| 1390 | 2015 | 90000142426 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Woonsocket | Knight St 2 | Capwell Ave | #373 | 143-391 | LP | | 4 | 1940 | 3825 | 3650 | 3385 | 500 | 1.2 | 1.0 | 4 | 2 | 0 | 8.50 |
| 1394 | 2015 | 90000142423 | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Woonsocket | Mirtris Blvd | Campeau St | EOM | 40-162 | LP | | 3, 4 | 1959 | 1335 | 1335 | 1335 | 500 | 1.0 | 3.0 | 4 | 0 | 0 | 9.67 |
| 1610 | 2016 | 90000142761 | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Central Falls | Sylvan St | Washington St | Broad St | 27-154 | LP | | 4 | 1940 | 2920 | 2920 | 2920 | 500 | 1.0 | 3.0 | 5 | 1 | 0 | 11.83 |
| 1351 | 2016 | 90000142840 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Cranston | Haven Ave | Cranston St | Cranston St | 4-55 | LP | | 6 | 1899 | 1630 | 2250 | 3220 | 500 | 1.2 | 3.0 | 3 | 0 | 0 | 14.70 |
| 1352 | 2016 | 90000142848 | 3/26/2014 | 3/26/2014 | N VanWinkle | RI | Cranston | Laurens St | Greenwood St | Garden St | 122-156 | LP | | 4 | 1911 | 1300 | 1300 | 1300 | 500 | 1.5 | 3.0 | 4 | 0 | 0 | 12.00 |
| 1142 | 2016 | | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | Cranston | Magnolia St | Belmont Rd | Clarence St | 221-360 | LP | | 4 | 1894 | 2040 | | | 500 | 1.5 | 3.0 | 3 | 0 | 0 | 12.00 |
| 1278 | 2016 | | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Cranston | Palmer | Park Ave | #69 Pamer Ave | 37-69 | LP | | 6 | 1947 | 725 | | | 500 | 1.2 | 1.0 | 2 | 0 | 0 | 8.00 |
| 1348 | 2016 | 90000142825 | 3/26/2014 | 3/26/2014 | N VanWinkle | RI | Cranston | Richard St | Laurens St | Auburn St | 56-116 | LP | | 6 | 1924 | 3195 | 3075 | 3075 | 500 | 1.0 | 3.0 | 4 | 1 | 0 | 12.00 |
| 1544 | 2016 | 90000142854 | 3/26/2014 | 3/26/2014 | N VanWinkle | RI | Cranston | St Mary's Dr | Cranston St | EOM | 10-68 | LP | | 6 | 1951 | 1455 | 1385 | 1385 | 500 | 1.5 | 3.0 | 5 | 1 | 0 | 21.25 |
| 1171 | 2016 | | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Cranston | Tremont St | Atwood Ave | #65 | 10-65 | LP | | 4 | 1950 | 648 | | | 500 | 1.0 | 1.0 | 1 | 0 | 0 | 3.33 |
| 1177 | 2016 | | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Cranston | Victory St | Park Ave | Legion Way | 17-89 | LP & 35# | | 12 | 1956 | 1394 | | | 500 | 1.2 | 1.0 | 4 | 1 | 0 | 5.60 |
| 1178 | 2016 | | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Cranston | Wales St, Argyle St | Dyer Ave | Gladstone St | 63-147 | LP | | 6 | 1947 | 2200 | | | 500 | 1.2 | 1.0 | 7 | 3 | 0 | 12.90 |
| 1601 | 2016 | 90000142839 | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Cumberland | Waterman St | High St | EOM | 12-112 | LP | | 4 | 1940 | 1795 | 2425 | 2425 | 500 | 1.0 | 3.0 | 3 | 0 | 0 | 9.33 |
| 1362 | 2016 | 90000142717 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | East Providence | Burgess Ave | Warren Ave | Muran Ave | 10-30 | LP | | 4 | 1892 | 760 | 760 | 760 | 500 | 1.0 | 3.0 | 3 | 1 | 0 | 7.00 |
| 1367 | 2016 | | 3/27/2014 | 3/27/2014 | N VanWinkle | RI | East Providence | Tower Ave | City View Ave | Walmer St | 2671-2580 | LP | | 8, 6 | 1936 | 2605 | | | 500 | 1.5 | 3.0 | 8 | 9 | 0 | 15.00 |
| 1483 | 2016 | 90000142770 | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Johnston | John St | Plainfield St | Pezzulo | 5-63 | LP to 99# | | 4,6 | 1914 | 2605 | 2700 | 3420 | 500 | 1.0 | 3.0 | 3 | 0 | 0 | 12.00 |
| 1143 | 2016 | 90000142704 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Lincoln | Sheffield Dr | Edendale Dr | Pleasant St | 2-18 | LP to 99# | | 4 | 1940 | 1860 | 1860 | 1860 | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.00 |
| 1374 | 2016 | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Newport | Webster St | Bellevue Ave | Ochre Point Ave | 90-162 | LP | | 6 | 1940 | 2000 | | | 500 | 1.5 | 3.0 | 1 | 0 | 0 | 8.00 |
| 1144 | 2016 | | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | North Providence | Gillen Ave | Charles St | Randall Rd | 26-60 | LP | | 6 | 1940 | 2150 | | | 500 | 1.2 | 3.0 | 2 | 2 | 0 | 12.10 |
| 1212 | 2016 | | 1/1/2013 | 3/24/2014 | N VanWinkle | RI | Pawtucket | Harrison St, Garden St | Garden St | George St | 1-78 | LP | | 2 | 1940 | 1425 | | | 500 | 1.5 | 3.0 | 0 | 1 | 0 | 4.00 |
| 1145 | 2016 | | 1/1/2013 | 3/24/2014 | N VanWinkle | RI | Pawtucket | Mowry St | Cottage St | end | 4-72 | LP | | 4 | 1939 | 1210 | | | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| | 2016 | | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Argol 2 | Edgeworth Ave | De Pinedo St | 28-121 | LP | | 4,6 | 1948 | 3085 | | | 500 | 1.2 | 3.0 | 11 | 0 | 0 | 15.00 |
| 1136 | 2016 | | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | Providence | Brighton St | Knight St | Vinton St | 1-14 | LP | | 3 | 1867 | 0 | | | 500 | 1.0 | 3.0 | 2 | 0 | 0 | 9.00 |
| 1415 | 2016 | | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Courtland St | Penn St | Broadway | 42-89 | LP | | 3,4,6 | 1859 | 2975 | | | 500 | 1.2 | 3.0 | 3 | 0 | 0 | 16.20 |
| 1127 | 2016 | | 1/1/2013 | 3/24/2014 | N VanWinkle | RI | Providence | Delaine St | Manton Ave | Appleton Ln | 133-161 | LP | | 4 | 1892 | 571 | | | 500 | 1.5 | 1.0 | 3 | 0 | 0 | 10.00 |
| 1137 | 2016 | | 1/1/2013 | 3/24/2014 | N VanWinkle | RI | Providence | Detroit Ave | Braod St | Nigra St | 7-109 | LP | | 4 | 1883 | 1670 | | | 500 | 1.2 | 1.0 | 4 | 2 | 0 | 11.60 |
| 431 & 161 | 2016 | 90000142682/90000143075 | 4/4/2014 | 1/16/2015 | N VanWinkle | RI | Providence | Elmwood Ave -2 | McKinly Ave | Park Ave | 1137-1275 | LP | | 6,4 | 1886 | 5225 | 5560 | 5560 | 560 | 1.2 | 3.0 | 16 | 0 | 0 | 18.89 |
| 1131 | 2016 | | 1/1/2013 | 3/24/2014 | N VanWinkle | RI | Providence | Evergreen St | N Main St | Camp St | 11-108 | LP | | 4 | 1895 | 1115 | | | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| 1534 | 2016 | 90000142568 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Gallatin St | Melrose St | Nigara St | 101-192 | LP | | 6 | 1913 | 2120 | 2120 | 2120 | 500 | 1.2 | 1.0 | 12 | 2 | 0 | 13.30 |
| 1435 | 2016 | 90000142575 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Grand View St | Camp St | N Main St | 11-125 | LP | | 4 | 1914 | 2205 | | | 500 | 1.0 | 3.0 | 4 | 3 | 0 | 12.17 |
| 1451 | 2016 | 90000142437 | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Mitchell St | Potters Ave | Congress Ave | 41-134 | LP | | 4 | 1887 | 4095 | 3075 | 2995 | 500 | 1.5 | 3.0 | 6 | 0 | 0 | 15.50 |
| 1453 | 2016 | 90000142445 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Montgomery St | Brpad St | Narraganset Ave | 162-308 | LP | | 4 | 1940 | 5145 | 5495 | 5730 | 500 | 1.5 | 3.0 | 12 | 0 | 0 | 13.50 |
| 1132 | 2016 | | 1/1/2013 | 3/24/2014 | N VanWinkle | RI | Providence | Morris Ave | Forest St | Savoy St | 347-407 | LP | | 4 | 1910 | 1380 | | | 500 | 1.0 | 1.0 | 3 | 0 | 0 | 10.00 |
| 1437 | 2016 | 90000142462 | 5/5/2014 | 1/30/2015 | N VanWinkle | RI | Providence | Ocean St | Thurbers Ave | Oxfrod St | 141-223 | LP | | 6 | 1883 | 1130 | 1240 | 1240 | 500 | 1.2 | 3.0 | 8 | 0 | 0 | 23.50 |
| 1538 | 2016 | 90000142474 | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Pleasant Vally Pkwy | Whitford Ave | Justice St | 591-665 | LP | | 6 | 1929 | 2130 | 2020 | 2020 | 500 | 1.0 | 3.0 | 5 | 1 | 0 | 15.17 |
| 1537 | 2016 | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | President Ave | Wayland Ave | Slater Ave | 144-214 | LP | | 4,6 | 1940 | 4900 | | | 500 | 1.5 | 1.0 | 10 | 2 | 0 | 22.50 |
| 1467 | 2016 | 90000142533 | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Smith St 3 | Tyndall Ave | Oakland Ave | 584-674 | LP | | 6,4 | 1974 | 2250 | 2250 | 2250 | 560 | 1.5 | 3.0 | 3 | 1 | 0 | 14.38 |
| 1134 | 2016 | | 1/1/2013 | 3/24/2014 | N VanWinkle | RI | Providence | Transit St | S Main st | Benefit St | 38-53 | LP | | 3 | 1850 | 355 | | | 355 | 1.0 | 1.0 | 4 | 1 | 0 | 11.09 |
| 1475 | 2016 | 90000142541 | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Whitehall St | Sterling Ave | Magnolia St | 10-37 | LP | | 6,4 | 1927 | 1715 | 1725 | 1725 | 500 | 1.2 | 1.0 | 3 | 1 | 0 | 13.60 |
| 1129 | 2016 | | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | Providence | Wolcott St | Regent St | Valley St | 20-28 | LP | | 6 | 1893 | 830 | | | 500 | 1.0 | 1.0 | 1 | 1 | 0 | 5.00 |
| 1594 | 2016 | | 5/15/2014 | 5/15/2014 | N VanWinkle | RI | Warwick | Broad St | Pawtuxet Ave | Pettaconsett Ave | 7-134 | LP to 35# | | 6 | 1912 | 3390 | | | 500 | 1.2 | 1.0 | 12 | 2 | 0 | 5.40 |
| 1595 | 2016 | | 5/15/2014 | 5/15/2014 | N VanWinkle | RI | Warwick | Elmwood Ave | Post Rd | Pawtuxet Ave | 1924-2112 | LP to 35# | | 8,12,6 | 1925 | 4385 | | | 500 | 1.2 | 2.7 | 6 | 5 | 0 | 10.00 |
| 1596 | 2016 | 90000142582 | 5/15/2014 | 5/15/2014 | N VanWinkle | RI | Warwick | Manolla Ave | Pawtuxet Ave | EOM | 79-195 | LP to 35# | | 6 | 1952 | 3260 | | | 500 | 1.0 | 1.0 | 4 | 3 | 0 | 10.00 |
| | 2016 | | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Warwick | Narragansett PKWY | Bayside Ave | Canonchet Ave | 156-272 | LP | | 6 | 1912 | 2095 | | | 570 | 1.0 | 1.0 | 2 | 8 | 0 | 8.46 |
| 1390 | 2016 | | 3/28/2014 | 4/23/2014 | N VanWinkle | RI | Woonsocket | Knight St 2 | Capwell Ave | Broadway | 143-373 | LP | | 4 | 1940 | 2565 | | | 500 | 1.2 | 1.0 | 4 | 1 | 0 | 7.60 |
| 1391 | 2016 | 90000142417 | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Woonsocket | Roberta Ave | Alice Ave | Rockland Ave | 89-203 | LP | | 6 | 1954 | 1480 | 820 | 1575 | 500 | 1.0 | 3.0 | 2 | 0 | 0 | 11.00 |
| 1456 | 2018 | 90000142516 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | River St | Pleasant Valley PKWY | Rent Ave | 101-270 | LP to 99# | | 4 | 1904 | 3065 | 3065 | 3065 | 500 | 1.2 | 3.0 | 5 | 1 | 0 | 20.00 |
| 1492 | 2020 | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | North Smithfield | Morse St | Great Rd | Town Line | 18-80 | LP | | 6 | 1931 | 875 | | | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.00 |
| 745 | 2050 | 9000106801 | 1/1/2013 | 5/29/2014 | N VanWinkle | RI | Bristol | HOPE ST | Thames St | Constitution st | 275-742 | LP | | 6 | 1940 | 5830 | | | 550 | 1.5 | 3.0 | 34 | 8 | 0 | 40.50 |
| 1599 | 2017 or 2016 | | 5/15/2014 | 5/15/2014 | N VanWinkle | RI | Warwick | Pawtuxet Ave | Elmwood Ave | Broad St | 184-353 | LP to 35# | | 6 | 1912 | 2350 | | | 500 | 1.2 | 1.0 | 1 | 1 | 0 | 6.30 |
| 1597 | 2017 or 2018 | | 5/15/2014 | 5/15/2014 | N VanWinkle | RI | Warwick | Harrington Ave | Pawtuxet Ave | EOM | 53-196 | LP to 35# | | 6 | 1947 | 3780 | | | 500 | 1.2 | 1.0 | 4 | 1 | 0 | 7.60 |

| Project # | Slotted FY | Work Order # | Initial Date of Identification | Date of Analysis | Evaluating Engineer | Division | Town | Street | From | To | Address Range | System Pressure (PSIG) | CP System | Exst Diameter (Inches) | YOI | Relay Footage Length of main to be Installed | Install Footage Length of main to be installed | Abandon Footage Length of main to be abandoned | Cluster Footage Distance from first leak to the last leak in the 'cluster' | Building Consequnce Factor If there are no buildings in the area = 0 If there are only single family homes = 1 If there are small builings (multi-family, strip malls, etc) = 1.2 If there are public buildings (school, church, hospital, etc) = 1.5 | DIMP Factor see DIMP Factors List (updated 11/25/2014) | X Total Leak Repairs | Total Open Workables | Total Open Non-Workables | Prioritization Factor (Pr) If the Pr Factor is greater than 12, the segment is considered 'actively corroding'. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1340 | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Central Falls | Brook st | Lonsdale Ave | EOM | 14-63 | LP | | 4 | 1940 | 525 | | | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.00 |
| 1341 | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Central Falls | Cleveland St | Lonsdale Ave | EOM | 15-131 | LP | | 4 | 1940 | 1365 | | | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| 1141 | | | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Central Falls | Hawes St | Central st | Clay St | 62-98 | LP | | 4, 6 | 1940 | 1156 | | | 500 | 1.2 | 3.0 | 3 | 0 | 0 | 7.80 |
| 1344 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Central Falls | Shawmut Ave | Temple St | Liberty St | 85-315 | LP | | 4 | 1940 | 200 | | | 200 | 1.2 | 3.0 | 2 | 0 | 0 | 8.00 |
| 1126 | | | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | Cranston | Baldina Dr, Budlong Rd | Baldina Dr to Tome St | | | LP | | 6 | 1955 | 1061 | | | 500 | | | 5 | 0 | 0 | 0.00 |
| | | | 1/30/2015 | 1/30/2015 | N VanWinkle | RI | Cranston | Brooks St | Cranston St | Norton St | 9-56 | Lp | | 12 | 1957 | 755 | 755 | 755 | 500 | 1.2 | 1.6 | 1 | 0 | 0 | 6.00 |
| 1547 | | | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Cranston | Garden City Dr | New London Ave | Garden Ct | 20-79 | LP | | 6 | 1948 | 1691 | | | 500 | 1.2 | 1.7 | 4 | 0 | 0 | 4.60 |
| | | | 1/30/2015 | 1/30/2015 | N VanWinkle | RI | Cranston | Grand Ave | Pawtuxet Ave | Narragansett BL | 21-71 | LP | | 6 | 1930 | 1360 | 1360 | 1360 | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.83 |
| 1546 | | | 5/7/2014 | 5/7/2014 | N VanWinkle | RI | Cranston | Pheasant Dr | Birchwood Dr | Elton Ci | 17-66 | LP | | 6 | 1956 | 1360 | | | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.00 |
| | | | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Cranston | Pontiac Ave | Park Ave | Bridge | 199-304 | LP | | 12 | 1895 | 4930 | | | 500 | 1.5 | 1.0 | 29 | 4 | 0 | 13.50 |
| 1545 | | | 5/7/2014 | 5/7/2014 | N VanWinkle | RI | Cranston | Smith St | Broad St | Narraganset Ave | 215-308 | LP | | 4 | 1894 | 1795 | | | 500 | 1.2 | 3.0 | 2 | 0 | 0 | 7.40 |
| 1546 | | | 5/7/2014 | 5/7/2014 | N VanWinkle | RI | Cranston | Wellington Ave | Wellington Ave | End | 860-890 | LP | | 12,6 | 1931 | 1660 | | | 500 | 1.0 | 0.0 | 2 | 2 | 0 | 7.33 |
| 1347 | | | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Cranston | Westfield Dr | Plainfield St | Westfield Dr | 5-33 | LP | | 6 | 1955 | 650 | | | 500 | 1.0 | 3.0 | 2 | 1 | 0 | 7.83 |
| 1357 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Cumberland | Blackstone St | High St | Kent St | 20-64 | LP | | 4 | 1940 | 1475 | | | 500 | 1.0 | 3.0 | 1 | 1 | 0 | 7.83 |
| 1358 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Cumberland | Geldard St | Broad St | EOM | 2-33 | LP | | 6 | 1957 | 905 | | | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| | | | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Cumberland | Ralco Wy | Carpenter St | EOM | 19-120 | LP | | 8 | 1955 | 1418 | | | 500 | 1.0 | 1.1 | 1 | 1 | 0 | 5.89 |
| 961 | | 9000118355 | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | East Providence | Austin Ave | Massasoit Ave | #20 Austin Ave | 5-22 | 5# | | 6 | 1928 | 660 | 660 | 660 | 550 | 1.0 | 0.0 | 5 | 0 | 0 | 11.06 |
| | | | 1/20/2015 | 1/20/2015 | N VanWinkle | RI | East Providence | Barney St | Newman Av | EOM | 10-42 | LP | | 4 | 1928 | 510 | 510 | 510 | 500 | 1.0 | 3.0 | 2 | 0 | 0 | 8.00 |
| 1528 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | East Providence | Centre St | Castro St | Pearl Ave | 92-152 | LP | | 6 | 1916 | 700 | | | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.00 |
| 960 | | 9000118353 | 1/1/2013 | 2/13/2015 | N VanWinkle | RI | East Providence | Merrill St | Massasoit Ave | Standish Ave | 9-45 | 5# | | 6 | 1924 | 460 | | | 460 | 1.0 | 0.0 | 1 | 0 | 0 | 2.72 |
| 1364 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | East Providence | Middle St | Narragansett Ave | Rocks Point ave | 15-103 | LP | | 4 | 1912 | 1075 | | | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 5.00 |
| 1368 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | East Providence | Vineyard Ave | Pawtucket Ave | EOM | 18-69 | LP | | 6 | 1952 | 695 | | | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 5.00 |
| | | | 1/20/2015 | 1/20/2015 | N VanWinkle | RI | East Providence | Warren | S Broadway St | Ninth St | 177-323 | LP | | 4, 6 | 1883 | 4985 | 4985 | 4985 | 560 | 1.5 | 3.0 | 10 | 0 | 0 | 11.48 |
| 970 | | | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | East Providence | Fort St | First St | S Broadway | 11-415 | 5# | | 8 | 1912 | 7063 | | | 500 | 1.2 | 0.0 | 4 | 0 | 0 | 9.30 |
| 974 | | 9000118376 | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | East Providence | Martin St | S Broadway St | Dodge St | | 5# | | 8 | 1912 | 3374 | | | 500 | 1.2 | 0.0 | 2 | 4 | 0 | 2.60 |
| 843 | | 90000110597 | 1/1/2011 | 1/8/2015 | N VanWinkle | RI | Lincoln | Arnold Ave | Smithfield Ave | EOM | 3-17 | LP to 99# | | 4 | 1940 | 625 | 625 | 625 | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| 752 | | | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | Lincoln | Old River Rd | Manville Ave | Handy's Ln | 324-341 | Low | | 6 | 1940 | 1100 | | | 500 | 1.2 | 0.0 | 0 | 0 | 0 | 0.00 |
| 1482 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Lincoln | Summer St | Railroad St | Central St | 8-71 | LP | | 6 | 1940 | 0 | 0 | 925 | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| 508 | | 9000118384 | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | Middletown | Aquidneck Ave | Green End Ave | Morrison Ave | 534-711 | 10# | | 4 | 1952 | 240 | 240 | 2245 | 500 | 1.0 | 1.0 | 8 | 6 | 0 | 15.83 |
| | | | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Newport | Atlantic Ave | Marchant st | Carroll Ave | 4-16 | LP | | 3,4 | 1934 | 815 | | | 500 | 1.0 | 1.0 | 3 | 0 | 0 | 6.33 |
| 1600 | | | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Newport | E Bowery St | Freebody St | Annandale Rd | 20-67 | LP | | 4, 2 | 1935 | 2285 | | | 500 | 1.2 | 3.0 | 2 | 0 | 0 | 10.00 |
| 1371 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Newport | Gibbs St | Bliss Rd | EOM | 24-146 | LP | | 4 | 1940 | 1545 | | | 500 | 1.2 | 3.0 | 2 | 0 | 0 | 7.40 |
| 952 | | 9000118015 | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | Newport | Halidon Ave, Harrison Ave | Wellington Ave | Reg #214 | | 10# | | 4 | 1954 | 3930 | | | 500 | 1.0 | 0.0 | 0 | 0 | 0 | 0.00 |
| 952 | | 90000118015 | 1/1/2012 | 12/10/2014 | N VanWinkle | RI | Newport | Harrison Ave | Beacon Hill | Halidon Ave | 25-134 | 10# | | 4 | 1954 | 3820 | 3820 | 3820 | 500 | 1.2 | 1.0 | 3 | 0 | 0 | 3.90 |
| 953 | | 9000118017 | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | Newport | Thames St | Dixon St | Wellington Ave | 580-604 | 10# | | 4 | 1940 | 265 | 265 | 265 | 265 | 1.0 | 0.0 | 3 | 0 | 0 | 7.86 |
| 1486 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | North Providence | Gardner | Olney Ave | EOM | 5-57 | LP | | 6 | 1941 | 1470 | | | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.00 |
| | | | 1/16/2015 | 1/16/2015 | N VanWinkle | RI | North Providence | Humbert St | Cranberry St | Victor St | 9-97 | LP | | 6 | 1923 | 2095 | 2095 | 2095 | 500 | 1.0 | 3.0 | 4 | 0 | 0 | 10.33 |
| 1508 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | North Providence | Mineral Springs Ave | Dora St | Charles St | 936-1050 | LP | | 6 | 1940 | 1635 | | | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| 1491 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | North Providence | Vincent Ave | Dora St | Ada St | 58-112 | LP | | 6 | 1940 | 920 | | | 500 | 1.0 | 3.0 | 1 | 1 | 0 | 7.83 |
| 1493 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Bacon St | Divison St | Columbus Ave | 11-130 | LP | | 4 | 1940 | 2070 | | | 500 | 1.2 | 3.0 | 2 | 0 | 0 | 10.30 |
| 1494 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Benefit St | Central Ave | #700 | 707-764 | LP | | 6 | 1940 | 1195 | | | 500 | 1.5 | 3.0 | 4 | 0 | 0 | 11.50 |
| 1495 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Beverage Hill Rd | George Benefit Hwy | Willston WA | 265-591 | LP | | 6 | 1940 | 2805 | | | 500 | 1.2 | 3.0 | 8 | 0 | 0 | 7.40 |
| 1496 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Central Ave | Front St | Middle St | 32-34 | LP | | 12 | 1940 | 455 | | | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.00 |
| 1001 | | 9000118461 | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | Pawtucket | Crest Dr | Rice St | #136 Crest Dr | | Low | | 4 | 1947 | 2415 | 2415 | 2415 | 500 | 1.0 | 0.0 | 5 | 1 | 0 | 2.50 |
| 1498 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Darlingdale Ave | Morris Ave | Mendon Ave | 48-188 | LP | | 4 | 1940 | 1545 | | | 500 | 1.0 | 3.0 | 1 | 1 | 0 | 7.83 |
| 1499 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | East Ave | Ridge St | Hillside Ave | 695-749 | LP | | 6,4 | 1940 | 1555 | | | 500 | 1.5 | 3.0 | 3 | 0 | 0 | 8.00 |
| 1500 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | East Ave 2 | Grace St | EOM | 244-259 | LP | | 6 | 1940 | 390 | | | 500 | 1.0 | 3.0 | 1 | 1 | 0 | 7.83 |
| 1501 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | East St | Middle St | #55 | 44-76 | LP | | 4 | 1940 | 1940 | | | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 5.00 |
| 1502&1503 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Exchange St | Broadway st | #150 | 35-122 | LP | | 12,6 | 1940 | 2585 | | | 500 | 1.5 | 3.0 | 5 | 1 | 0 | 15.50 |
| | | | 1/20/2015 | 1/20/2015 | N VanWinkle | RI | Pawtucket | George St | Park Pl N | Cedar St | 2-67 | LP | | 6 | 1940 | 1870 | 1870 | 1870 | 500 | 1.5 | 3.0 | 3 | 0 | 0 | 15.00 |
| 1497 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Greight st | Cottage St | EOM | 21-101 | LP | | 6 | 1940 | 1585 | | | 500 | 1.0 | 3.0 | 3 | 0 | 0 | 10.50 |
| 1504 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Main St | Moshassuck St | Grenville St | 1088-1131 | LP | | 6 | 1940 | 425 | | | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.00 |
| 1505 | | | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Pawtucket | Martin St | Ashburne St | Burgess St | 4-106 | LP | | 4 | 1940 | 2655 | | | 500 | 1.0 | 3.0 | 4 | 2 | 0 | 8.67 |
| 1506 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Mendon Ave | Benefit St | Cottage st | 231-219 | LP | | 6 | 1940 | 2900 | | | 500 | 1.0 | 3.0 | 3 | 0 | 0 | 7.00 |
| 1507 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Mendon Ave 2 | Central Ave | Hunts St | 101-132 | LP | | 4 | 1940 | 580 | | | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.00 |
| 1509 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Mineral Springs Ave | Hurley St | #500 | 428-500 | LP | | 12 | 1940 | 1170 | | | 500 | 1.0 | 0.0 | 2 | 0 | 0 | 4.00 |
| 1511 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | N Bend St | Saunders St | EOM | 150-198 | 10 | | 4 | 1940 | 1355 | | | 500 | 1.2 | 3.0 | 4 | 0 | 0 | 14.20 |
| 1510 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Newport Ave | Liberty St | Armistice BL | 701-814 | LP | | 6 | 1940 | 1075 | | | 500 | 1.2 | 3.0 | 1 | | 0 | 7.40 |
| 1512 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Pine St | Geoff St | Main St | 248-280 | LP | | 10 | 1940 | 1125 | | | 500 | 1.0 | 0.0 | 1 | 0 | 0 | 4.00 |
| 1513 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Pinecrest Dr | Crest Dr | Diana Dr | 92-217 | LP | | 6,4 | 1940 | 2900 | | | 500 | 1.0 | 3.0 | 2 | 1 | 0 | 8.67 |
| 1515 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Power Rd | W Lawn Ave | Norman Ave | 270-360 | LP | | 4 | 1940 | 2210 | | | 500 | 1.2 | 3.0 | 2 | 0 | 0 | 11.80 |
| 1516 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Prentice Ave | Smithfiend Ave | EOM | 13-127 | LP | | 6 | 1940 | 1145 | | | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.00 |
| | | | 2/4/2015 | 2/4/2015 | N VanWinkle | RI | Pawtucket | Progress St | East Ave | EOM | 102-142 | LP | | 4,6 | 1940 | 1850 | 1850 | 1850 | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |

| Project # | Slotted FY | Work Order # | Initial Date of Identification | Date of Analysis | Evaluating Engineer | Division | Town | Street | From | To | Address Range | System Pressure (PSIG) | CP System | Exst Diameter (Inches) | YOI | Relay Footage Length of main to be Installed | Install Footage Length of main to be installed | Abandon Footage Length of main to be abandoned | Cluster Footage Distance from first leak to the last leak in the 'cluster' | Building Consequnce Factor If there are no buildings in the area = 0 If there are only single family homes = 1 If there are small builings (multi-family, strip malls, etc) = 1.2 If there are public buildings (school, church, hospital, etc) = 1.5 | DIMP Factor see DIMP Factors List (updated 11/25/2014) | X Total Leak Repairs | Total Open Workables | Total Open Non-Workables | Prioritization Factor (Pr) If the Pr Factor is greater than 12, the segment is considered 'actively corroding'. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1517 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Randall St | Jefferson Ave | Pine St | 44-123 | LP | | 4 | 1940 | 1275 | | | 500 | 1.5 | 3.0 | 3 | 0 | 0 | 10.25 |
| 1518 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Smithfield Ave | Thomas Ave | Lowen Ave | 504-555 | LP | | 6 | 1940 | 970 | | | 500 | 1.5 | 3.0 | 1 | 0 | 0 | 8.00 |
| 1519 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Stearns St | Keyon Ave | Cottage st | 1-150 | LP | | 6 | 1940 | 4830 | | | 500 | 1.2 | 3.0 | 6 | 0 | 0 | 8.30 |
| 1520 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Summit Ave | Divison St | Pond St | 145-193 | LP | | 6 | 1940 | 1745 | | | 500 | 1.5 | 3.0 | 4 | 0 | 0 | 12.00 |
| 1521 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | Taft St | Merry St | EOM | 217-250 | LP | | 4 | 1957 | 320 | | | 320 | 1.0 | 3.0 | 1 | 0 | 0 | 9.25 |
| | | | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Pawtucket | Vale St | Main St | EOM | 12-67 | LP | | 4 | 1940 | 1935 | | | 500 | 1.2 | 3.0 | 2 | 1 | 0 | 11.20 |
| 1522 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Pawtucket | York Ave | Boyce Ave | Columbus Ave | 435-715 | LP | | 6 | 1940 | 2880 | | | 500 | 1.0 | 3.0 | 3 | 0 | 0 | 7.83 |
| 1398 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Allston St | Harold St | Wolcott St | 101-197 | LP | | 4 | 1893 | 1435 | | | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.00 |
| 1399 | | | 3/28/2014 | 3/28/2014 | N VanWinkle | RI | Providence | Alverson St | Nye St | Plainfield St | 1-120 | LP | | 4 | 1897 | 1550 | | | 500 | 1.0 | 3.0 | 3 | 0 | 0 | 9.50 |
| 1400 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Armstrong Ave | Geroge M Cohen BL | Hope St | 14-57 | LP | | 4 | 1877 | 1260 | | | 500 | 1.2 | 3.0 | 3 | 0 | 0 | 13.80 |
| | | | 1/16/2015 | 1/16/2015 | N VanWinkle | RI | Providence | Atwells Ave | Vincton St | Dean St | 210-373 | LP | | 12 | 1870 | 2170 | 2170 | 2250 | 500 | 1.2 | 3.0 | 7 | 0 | 0 | 17.00 |
| 1401 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Ayrault St | Valley St | Chalkstone St | 21-93 | LP | | 4 | 1887 | 1190 | | | 500 | 1.2 | 3.0 | 1 | 1 | 0 | 8.30 |
| 1403 | | | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Barton St | Westminster St | Broadway | 6-58 | LP | | 4 | 1895 | 740 | | | 500 | 1.5 | 3.0 | 2 | 1 | 0 | 11.00 |
| 1405 | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Basswood Ave | Mount Pleasant Ave | Sheffield St | 10-106 | LP | | 6 | 1931 | 3160 | | | 500 | 1.0 | 3.0 | 5 | 2 | 0 | 11.17 |
| 1406 | | | 3/28/2014 | 3/28/2014 | N VanWinkle | RI | Providence | Benefit St | Waterman St | N Court St | 150-210 | LP | | 12 | 1906 | 2360 | | | 500 | 1.5 | 0.0 | 8 | 1 | 0 | 12.25 |
| 1407 | | | 3/28/2014 | 3/28/2014 | N VanWinkle | RI | Providence | Broad St | Badcock St | Eddy St | 1343-1453 | LP | | 6, 12 | 1985 | 3565 | | | 500 | 1.5 | 3.0 | 6 | 1 | 0 | 9.00 |
| 1408 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Broad St 2 | Colfax | #977 | 935-977 | LP | | 6 | 1879 | 70 | | | 70 | 1.2 | 3.0 | 1 | 0 | 0 | 34.43 |
| | | | 1/30/2015 | 1/30/2015 | N VanWinkle | RI | Providence | Brook St | Wickeden St | power St | 115-223 | LP | | 12 | 1874 | 1655 | 1655 | 1655 | 710 | 1.2 | 1.6 | 5 | 0 | 0 | 12.59 |
| | | | 1/16/2015 | 1/16/2015 | N VanWinkle | RI | Providence | Burlington St | Hope | Bayard St | 27-55 | LP | | 4 | 1916 | 400 | 400 | 400 | 400 | 1.2 | 3.0 | 1 | 0 | 0 | 8.50 |
| | | | 1/16/2015 | 1/16/2015 | N VanWinkle | RI | Providence | Burnett St | Dexter St | Elmwood Ave | 65-143 | LP | | 4 | 1884 | 1130 | 1235 | 1130 | 500 | 1.5 | 3.0 | 1 | 0 | 0 | 8.00 |
| 1411 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Calvery St | Smith St | Bath St | 70-109 | LP | | 6 | 1905 | 1860 | | | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| 1412 | | | 3/28/2014 | 3/28/2014 | N VanWinkle | RI | Providence | Carr St | Cactus St | Broad St | 9-105 | LP | | 6 | 1922 | 1420 | | | 500 | 1.2 | 3.0 | 3 | 0 | 0 | 8.50 |
| 1413 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Charles St 2 | Viktyrbi St | Habe St | 2961-996 | LP | | 6 | 1940 | 2190 | | | 500 | 1.2 | 3.0 | 1 | 1 | 0 | 8.30 |
| 1414 | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Chaucer St | Erastus St | Carleton St | 9-82 | LP | | 4 | 1931 | 1280 | | | 500 | 1.2 | 3.0 | 2 | 0 | 0 | 10.20 |
| 1417 | | | 3/28/2014 | 3/28/2014 | N VanWinkle | RI | Providence | Cowper Ct | Messer St | EOM | 14-57 | LP | | 4 | 1895 | 510 | | | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| 1416 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Cranston St | Service Rd | Wadsworth St | 575-770 | LP | | 4 | 1870 | 1610 | | | 500 | 1.2 | 3.0 | 3 | 2 | 0 | 12.10 |
| 1130 | | | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | Providence | Dexter St | Huntington Ave | Potters Ave | 519-560 | LP | | 4 | 1892 | 0 | | | 500 | 1.2 | 0.0 | 0 | 0 | 0 | 0.00 |
| 1421 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Douglas Ave | Oneil St | Stansburn St | 792-902 | LP | | 6,4 | 1890 | 2270 | | | 500 | 1.2 | 3.0 | 2 | 1 | 0 | 12.70 |
| 1419 | | | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | E Transit St | Ives st | Gano St | 40-80 | LP | | 4 | 1890 | 600 | | | 500 | 1.2 | 3.0 | 2 | 0 | 0 | 11.80 |
| 770 | | | 3/28/2014 | 3/28/2014 | N VanWinkle | RI | Providence | East George | Govenor St | Gano St | 7-77 | LP | | 6 | 1896 | 2265 | | | 500 | 1.2 | 3.0 | 10 | 2 | 0 | 13.60 |
| 1425 | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | East Transit St 2 | Ives st | Gano St | 40-72 | LP | | 4 | 1896 | 530 | | | 500 | 1.2 | 3.0 | 2 | 0 | 0 | 11.80 |
| 1426 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Eddy St | Brook St | Baker St | 1201-1261 | LP | | 4 | 1891 | 1875 | | | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| 1427 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Providence | Eddy st 2 | #77 | Weybosset St | 65-97 | LP | | 4 | 1853 | 140 | | | 140 | 1.2 | 3.0 | 1 | 0 | 0 | 18.71 |
| 1430 | | 90000142680 | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Elmwood Ave -1 | Daboll St | Carter St | 312-433 | LP | | 12,6 | 1891 | 1450 | 2905 | 2905 | 500 | 1.5 | 3.0 | 9 | 2 | 0 | 28.00 |
| 1422 | | 90000152448 | 3/24/2014 | 2/11/2015 | N VanWinkle | RI | Providence | Elton St | Blackstone BL | Taber Ave | 4-151 | LP to 99# | | 4 | 1912 | 10580 | 10580 | 10580 | 500 | 1.2 | 3.0 | 7 | 3 | 0 | PW |
| 1433 | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Fairfield Ave | Richland St | Manton Ave | 13-89 | LP | | 4 | 1929 | 2060 | | | 500 | 1.2 | 3.0 | 4 | 1 | 0 | 12.10 |
| 1529 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Felix BL | Valley St | Chalkstone Ave | 2-74 | LP | | 4 | 1894 | 860 | | | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| 1530 | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Firglad Ave | Forest St | Hart St | 14-48 | LP | | 4 | 1905 | 1640 | | | 500 | 1.0 | 3.0 | 3 | 2 | 0 | 11.83 |
| | | | 1/30/2015 | 1/30/2015 | N VanWinkle | RI | Providence | Fosdyke St | Woodbury St | Morris Ave | 14-140 | LP | | 6 | 1929 | 1485 | 1485 | 1485 | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 8.30 |
| 1531 | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Freeman PKWY | Taber Ave | Morris Ave | 2-106 | LP | | 6 | 1925 | 2390 | | | 500 | 1.0 | 3.0 | 2 | 1 | 0 | 8.83 |
| 1533 | | | 4/4/2014 | 1/16/2015 | N VanWinkle | RI | Providence | Friendship St 2 | Lockwood St | Linden St | 367-440 | LP | | 4 | 1887 | 2090 | | | 500 | 1.2 | 3.0 | 3 | 2 | 0 | 13.90 |
| | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Gallatin St - 2 | Elmwood St | Melorse St | 209-273 | LP | | 6 | 1913 | 2120 | | | 500 | 1.2 | 3.0 | 7 | 0 | 0 | 11.10 |
| | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Gordon St | Broad St | Praire Ave | 193-201 | LP | | 4 | 1895 | 2665 | | | 500 | 1.5 | 3.0 | 2 | 0 | 0 | 13.00 |
| 1434 | | | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Greely St | Sherman St | #192 Greenly St | 140-192 | LP | | 6 | 1947 | 710 | | | 500 | 1.0 | 3.0 | 3 | 1 | 0 | 10.33 |
| 1440 | | | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Hanover St | Bucklin St | Elmwood Ave | 5-78 | LP | | 4 | 1902 | 3400 | | | 500 | 1.2 | 3.0 | 6 | 0 | 0 | 12.60 |
| | | | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Harrison St | Westnubster St | Division St | 18-64 | LP | | 3,4 | 1879 | 1150 | | | 500 | 1.2 | 1.0 | 3 | 0 | 0 | 9.60 |
| | | | 1/30/2015 | 1/30/2015 | N VanWinkle | RI | Providence | Homer St | Broad St | Cactus St | 12-106 | LP | | 4 | 1891 | 1100 | 1100 | 1100 | 500 | 1.2 | 3.0 | 4 | 0 | 0 | 15.00 |
| 1439 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Hope St | eleventh St | Blackstone BL | 1016-1100 | LP | | 6 | 1926 | 975 | | | 500 | 1.2 | 3.0 | 7 | 0 | 0 | 12.30 |
| 1443 | | | 4/4/2014 | 2/4/2015 | N VanWinkle | RI | Providence | Indiana Ave | Eddy St | Narraganset Ave | 162-316 | LP | | 4 | 1895 | 2650 | | | 500 | 1.2 | 3.0 | 13 | 1 | 0 | 12.80 |
| | | | 1/30/2015 | 1/30/2015 | N VanWinkle | RI | Providence | Ives St | Trenton St | Fremont St | 99-147 | LP | | 4 | 1896 | 2360 | 2360 | 2360 | 575 | 1.5 | 3.0 | 6 | 0 | 0 | 15.83 |
| 1442 | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Ivy St | Hart St | EOM @ 226 | 181-226 | LP | | 4 | 1910 | 1535 | | | 500 | 1.2 | 3.0 | 3 | 1 | 0 | 9.40 |
| 1447 | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Jenkins St | Camp St | N Main St | 13-132 | LP | | 4 | 1873 | 3460 | | | 500 | 1.2 | 3.0 | 5 | 0 | 0 | 7.00 |
| 1445 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Jewett st | Valley St | Calais St | 86-266 | LP | | 4 | 1893 | 2550 | | | 500 | 1.2 | 3.0 | 5 | 0 | 0 | 12.70 |
| 1446 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Judith St | Sterling Ave | Lena St | 20-80 | LP | | 4 | 1925 | 1925 | | | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| 1448 | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Lancaster St | Camp St | N Main St | 7-101 | LP | | 4 | 1909 | 2395 | | | 500 | 1.2 | 3.0 | 6 | 1 | 0 | 12.40 |
| 309 | | | 3/24/2014 | 3/24/2014 | N VanWinkle | RI | Providence | Linclon St | Grotto Ave | EOM | 345 | LP | | 3,6 | 1877 | 2740 | | | 500 | 1.5 | 0.0 | 0 | 0 | 0 | 0.00 |
| 1449 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Linden Dr | Cole Ave | EOM | 2-28 | LP | | 4 | 1958 | 330 | | | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.00 |
| 1450 | | | 5/5/2014 | 05/05/214 | N VanWinkle | RI | Providence | Loreto St | Charles St | EOM | 10-11 | LP | | 6 | 1925 | 150 | | | 500 | 1.0 | 3.0 | 1 | 0 | 0 | 7.00 |
| | | | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Providence | Meeting St | Benefit St | EOM | 15-28 | LP | | 4 | 1875 | 345 | | | 500 | 1.5 | 3.0 | 5 | 0 | 0 | 13.75 |
| 1464 | | | 3/28/2014 | 3/28/2014 | N VanWinkle | RI | Providence | Napples Ave | Sharon Ave | Enfield Ave | 11-119 | LP | | 5 | 1930 | 3050 | | | 500 | 1.0 | 3.0 | 17 | 1 | 0 | 10.50 |
| | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Oak St | Messer St | Parade St | 12-100 | LP | | 4 | 1873 | 1035 | | | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |
| 511 | | | 1/1/2011 | 5/22/2014 | N VanWinkle | RI | Providence | Pinehurst Ave | Smith St | Eaton St | 9-130 | LP | | 4 | 1911 | 1575 | | | 790 | 1.2 | 1.0 | 4 | 2 | 0 | 6.82 |
| | | | 1/30/2015 | 1/30/2015 | N VanWinkle | RI | Providence | Plainfield St | Hartford St | Route 6 | 10-114 | LP | | 4,8 | 1912 | 1675 | 1675 | 1675 | 850 | 1.5 | 3.0 | 8 | 0 | 0 | 16.24 |

| Project # | Slotted FY | **Work Order #** | **Initial Date of Identification** | **Date of Analysis** | **Evaluating Engineer** | **Division** | **Town** | **Street** | **From** | **To** | **Address Range** | **System Pressure (PSIG)** | **CP System** | **Exst Diameter (Inches)** | **YOI** | **Relay Footage** Length of main to be Installed | **Install Footage** Length of main to be installed | **Abandon Footage** Length of main to be abandoned | **Cluster Footage** Distance from first leak to the last leak in the 'cluster' | **Building Consequnce Factor** If there are no buildings in the area = 0<br>If there are only single family homes = 1<br>If there are small builindgs (multi-family, strip malls, etc) = 1.2<br>If there are public buildings (school, church, hospital, etc) = 1.5 | **DIMP Factor** see DIMP Factors List (updated 11/25/2014) | ***X Total Leak Repairs*** | ***Total Open Workables*** | ***Total Open Non-Workables*** | ***Prioritization Factor (Pr)*** *If the Pr Factor is greater than 12, the segment is considered 'actively corroding'.* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1539 | | | 4/4/2014 | 4/4/2014 | N VanWinkle | RI | Providence | Pomona Ave | Carleton St | Academy Ave | 10-83 | LP | | 4 | 1893 | 2925 | | | 500 | 1.5 | 3.0 | 4 | 3 | 0 | 9.00 |
| | | | 1/16/2015 | 1/16/2015 | N VanWinkle | RI | Providence | Providence St | Pearl St | Dudley St | 68-126 | LP | | 4 | 1884 | 1420 | 1420 | 1420 | 500 | 1.2 | 3.0 | 1 | 0 | 0 | 7.40 |

| Project # | FY | WO# | Initial Date of Identification | Date of Analysis | Evaluating Engineer | Division | Town | Street | From | To | Address Range | System Pressure (PSIG) | CP System | Exst Diameter | YOI | Relay Footage Length of main to be replaced | Install Footage | Abandon Footage | Cluster Footage Distance from first leak to the last leak in the 'cluster' | Building Consequnce Factor If there are no buildings in the area = 0 If there are only single family homes = 1 If there are small builings (multi-family strip malls, etc) = 1.2 If there are public buildings (school, church, hospital, etc) = 1.5 | DIMP Factor see DIMP Factors List (updated 11/25/2014) | *X Total Leak Repairs* | *Total Open Workables* | *Total Open Non-Workables* | *Prioritization Factor (Pr)* *If the Pr Factor is greater than 12, the segment is considered 'actively corroding'.* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1097 | 2014 | 9000118308 | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | Cranston | Flynn Ave, Beeckman | East St | Stam Ave | | 35# | | 2 | 1964 | 855 | | | 650 | 1.0 | 2.4 | 5 | 1 | 0 | 8.43 |
| 1061 | 2014 | 9000118581 | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | Johnston | Atwood Ave | #1178 | #973 | | 35# | | 8 | 1959 | 3335 | 3335 | 3335 | 500 | 1.2 | 2.4 | 8 | 2 | 0 | 14.40 |
| 1008 | 2014 | 9000118157 | 1/1/2013 | 1/1/2013 | N VanWinkle | RI | Warwick | Chestnut St, Ash St | Post Rd | bly St | | 35# | | 2 | 1930 | 1420 | 1420 | 1420 | 500 | 1.2 | 2.4 | 1 | 0 | 0 | 5.20 |
| 1234 | 2014 | 90000131212 | 1/1/2013 | 1/6/2014 | N VanWinkle | RI | Warwick | Endicott Dr | Strawberry Field Rd | Norflok Rd | | 35# | | 2 | 1949 | 1740 | 1740 | 1740 | 1060 | 1.0 | 2.4 | 4 | 5 | 0 | 9.63 |
| 1635 | 2014 | 90000148199 | 10/24/2014 | 10/24/2014 | N VanWinkle | RI | Warwick | George st | #156 | #173 | 156-173 | 35# | | 2 | 1962 | 135 | 135 | 135 | | 1.0 | 2.4 | 0 | 0 | 0 | FIELD REQUEST |
| 1335 | 2014 | | 1/1/2011 | 3/25/2014 | N VanWinkle | RI | Warwick | Gilbert St | Sutter Ave | #7 Gilbert St | 2-7 | 35# | | 2 | 1965 | 218 | | | 500 | 1.0 | 1.7 | 2 | 2 | 0 | 7.20 |
| 1021 | 2014 | 9000118185 | 1/1/2013 | 1/7/2015 | N VanWinkle | RI | Warwick | Hollywood Ave | Post Rd | Mann St | | 35# | | 2 | 1930 | 755 | 755 | 755 | 500 | 1.0 | 2.4 | 1 | 2 | 0 | 10.07 |
| 1228 | 2014 | 90000131011 | 1/1/2013 | 1/6/2014 | N VanWinkle | RI | Warwick | Lucas Rd, Topaz Dr | Weeden Dr | Court B | | 35# | | 2 | 1964 | 4045 | 3945 | 3945 | 625 | 1.0 | 2.4 | 5 | 2 | 0 | 14.53 |
| 1227 | 2014 | 90000131005 | 1/1/2013 | 1/6/2014 | N VanWinkle | RI | Warwick | Norwood Ave | Post Rd | #201 Norwood Ave | | 35# | | 2 | 1930 | 3235 | 3235 | 3235 | 570 | 1.5 | 2.4 | 7 | 1 | 0 | 19.07 |
| 1160 | 2015 | 90000146591 | 1/20/2015 | 1/20/2015 | N VanWinkle | RI | Barrington | Blanding Ave | Latham Ave | Ocean Ave | 10-77 | 35 | | 2 | 1933 | 2090 | 2090 | 2090 | 500 | 1.2 | 1.7 | 4 | 1 | 0 | 13.50 |
| 1162 | 2015 | 90000142785 | 1/1/2013 | 1/20/2015 | N VanWinkle | RI | Barrington | Centennial Ave | Maple St | #8 Centennial Ave | 2-8 | 25 | | 2 | 1967 | 295 | 295 | 295 | 295 | 1.0 | 1.7 | 3 | 0 | 0 | 12.96 |
| 1156 | 2015 | 90000138768 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Barrington | Chachapacasset Rd | Rumstick Rd | Lorrain St | | 25 | | 4,2 | 1931 | 2435 | 2435 | 2435 | 500 | 1.0 | 1.7 | 4 | 1 | 0 | 10.53 |
| 1163 | 2015 | 90000142814 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Barrington | Tiffany Ct | Lincoln Ave | #3 Tiffany Ci | 1-4 | 25 | | 2 | 1957 | 226 | 220 | 220 | 226 | 1.0 | 1.7 | 1 | 0 | 0 | 8.30 |
| 1158 | 2015 | 90000142818 | 1/20/2015 | 1/20/2015 | N VanWinkle | RI | Barrington | Water Way St | Bluff Rd | Highland Ave | 33-71 | 35 | | 2, 1.5 | 1931 | 2085 | 2085 | 2085 | 700 | 1.0 | 2.4 | 6 | 1 | 0 | 12.40 |
| 1634 | 2015 | 90000146595 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Bristol | Highland Ave | Gibson Rd | EOM | 1-40 | LP to 8# | | 4,3,2 | 1940 | 5125 | 5125 | 5125 | 500 | 1.0 | 1.7 | 2 | 0 | 0 | 7.70 |
| 1633 | 2015 | 90000146593 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Bristol | Siege St | Mt Hope Rd | EOM | 4-11 | LP | | 2 | 1940 | 135 | 135 | 135 | 135 | 1.2 | 1.7 | 2 | 0 | 0 | 20.22 |
| 1605 | 2015 | 90000142780 | 5/29/2014 | 5/29/2014 | N VanWinkle | RI | Bristol | Union St | High St | Hope St | 17-58 | LP | | 3 | 1940 | 1000 | 1000 | 1000 | 500 | 1.0 | 2.4 | 15 | 1 | 0 | 39.23 |
| 1167 | 2015 | 90000146589 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Coventry | Arnold Rd | Johnson Bl | Forest St | 187-251 | 35# | | 2 | 1960 | 1605 | 1605 | 1605 | 500 | 1.2 | 1.7 | 3 | 0 | 0 | 8.50 |
| 1562 | 2015 | 90000142815 | 5/9/2014 | 5/9/2014 | N VanWinkle | RI | Cranston | Beckwidth St | Grace St | EOM | 170 | LP to 7# | | 4 | 1958 | 180 | 180 | 180 | 180 | 1.2 | 1.7 | 2 | 1 | 0 | 22.22 |
| 1172 | 2015 | 90000142831 | 1/1/2013 | 1/20/2015 | N VanWinkle | RI | Cranston | E View Ave | N View Ave | Palmer Ave | 85-171 | LP to 99# | | 6 | 1964 | 2315 | 2745 | 3005 | 650 | 1.0 | 1.7 | 7 | 1 | 0 | 10.76 |
| 1179 | 2015 | 90000146542 | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Cranston | Mockingbird Dr | Quail Hollow Rd | Stony Acre Dr | 12-130 | LP to 35# | | 6 | 1965 | 3990 | 3990 | 3990 | 500 | 1.0 | 1.7 | 3 | 0 | 0 | 9.20 |
| 1173 | 2015 | 90000146544 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Cranston | Natick Ave | Wilbur Ave | bridge crossing | 47-164 | 35# | | 8,2 | 1959 | 2015 | 2015 | 2015 | 500 | 1.5 | 1.7 | 1 | 2 | 0 | 6.45 |
| 1548 | 2015 | 90000142538 | 5/9/2014 | 5/9/2014 | N VanWinkle | RI | Cranston | Spectacle St | Manhasset Rd | Westrussie St | 1-4 | LP | | 4 | 1963 | 0 | 0 | 635 | 500 | 1.0 | 1.7 | 2 | 0 | 0 | 8.33 |
| 1174 | 2015 | 90000146546 | 1/20/2014 | 3/21/2014 | N VanWinkle | RI | Cranston | Sweet Meadow Dr | Bateman Ave | #71 Sweet Meadow Dr | 21-71 | 35# | | 2 | 1963 | 1055 | 930 | 1055 | 500 | 1.0 | 1.7 | 7 | 2 | 0 | 11.87 |
| 1551 | 2015 | 90000146583 | 5/9/2014 | 5/9/2014 | N VanWinkle | RI | Cranston | Whiting St | #247 | #171 | 171-247 | LP | | 6 | 1951 | 1685 | 1685 | 1685 | 500 | 1.0 | 1.7 | 2 | 1 | 0 | 9.99 |
| 1175 | 2015 | 90000146585 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Cranston | Woodlawn Dr | Briarwood Rd | Warfield Ave | 5-94 | 35# | | 2 | 1958 | 2045 | 2045 | 2045 | 500 | 1.0 | 1.7 | 3 | 0 | 0 | 7.66 |
| 1552 | 2015 | 90000146587 | 1/20/2015 | 1/20/2015 | N VanWinkle | RI | Cranston | Woodrow Ave | Oaklawn Ave | Kermit Ave | 14-45 | 35# | | 2 | 1958 | 570 | 570 | 570 | 500 | 1.2 | 2.4 | 4 | 0 | 0 | 14.60 |
| 1185 | 2015 | 90000146654 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | East Greenwich | Sixth Ave | Main St | Fourth St | 17-55 | 35# | | 2 | 1950 | 2155 | | | 500 | 1.2 | 1.7 | 3 | 1 | 0 | 9.90 |
| 1189 | 2015 | 90000146526 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | East Providence | Breeze Ave | Crescent View Ave | End | 22-49 | 25# | | 2 | 1939 | 230 | 230 | 230 | 230 | 1.0 | 1.7 | 3 | 0 | 0 | 14.74 |
| 1632 | 2015 | 90000146528 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | East Providence | Coyle | Roger Williams Ave | Pioneer Ave | 6-56 | LP to 35# | | 6 | 1958 | 890 | 890 | 890 | 500 | 1.2 | 1.7 | 1 | 2 | 0 | 9.90 |
| 1195 | 2015 | 90000146532 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | East Providence | Legion Wy, Cedarwood Dr | Beverly Rd | #103 Legion Wy | 103-118 | 25# | | 2 | 1962 | 2145 | 2145 | 2145 | 500 | 1.0 | 1.7 | 3 | 0 | 0 | 7.70 |
| 1197 | 2015 | 90000146540 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | East Providence | Pickett Rd | Hedley Ci | Wampanoag Tr | 2-21 | 25# | | 2 | 1964 | 1880 | 1880 | 1880 | 500 | 1.2 | 1.7 | 2 | 2 | 0 | 6.06 |
| 1198 | 2015 | 90000142764 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Johnston | Atwood Ave | #1255 | #1294 | 1294-1296 | 35# | | 8 | 1958 | 110 | 110 | 110 | 110 | 1.0 | 1.7 | 2 | 1 | 0 | 35.03 |
| 1202 | 2015 | 90000143017 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Johnston | Carpenter Dr | Atwood Ave | Buena Vista Ave | 57-67 | 35# | | 2 | 1959 | 2450 | 2440 | 2225 | 500 | 1.0 | 1.7 | 3 | 0 | 0 | 10.70 |
| 1200 | 2015 | 90000143019 | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Johnston | Greenville Ave | Blackberry Knl Wy | #369 Greenville Ave | 372-433 | 35# | | 6 | 1958 | 2085 | 2085 | 2085 | 500 | 1.0 | 1.7 | 4 | 4 | 0 | 10.03 |
| 1199 | 2015 | 90000146522 | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Johnston | Old Pocasset Rd | Central Ave | Scituate Ave | | 35# | | 6 | 1963 | 3675 | 3675 | 3675 | 500 | 1.0 | 1.7 | 2 | 2 | 0 | 7.20 |
| 1631 | 2015 | 90000146520 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Lincoln | Reservior Ave | Old River Rd | Valley St | 12-27 | LP | | 4 | 1940 | 970 | 1035 | 970 | 415 | 1.2 | 1.7 | 1 | 0 | 0 | 8.21 |
| 950 | 2015 | 9000118396 | 1/1/2013 | 1/8/2015 | N VanWinkle | RI | Middletown | Rego Te | E Main Rd | MappleWood Rd | | 10# | | 4 | 1940 | 370 | 370 | 370 | 370 | 1.2 | 2.4 | 2 | 0 | 0 | 11.05 |
| 1210 | 2015 | 90000146502 | 1/1/2013 | 3/24/2014 | N VanWinkle | RI | North Kingstown | Heritage Rd | Chadsey Rd | Lynn Dr | 5-221 | 35# | | 3 | 1962 | 5550 | 5550 | 5550 | 735 | 1.2 | 1.7 | 4 | 2 | 0 | 4.79 |
| 1630 | 2015 | 90000146500 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | North Providence | Redwood | Longwood Ave | EOM | 11-27 | 35 | | 2 | 1958 | 1200 | 1200 | 1200 | 500 | 1.2 | 2.4 | 1 | 1 | 0 | 6.60 |
| 1555 | 2015 | 90000146660 | 5/9/2014 | 5/9/2014 | N VanWinkle | RI | Pawtucket | Taft St | Bensley St | Merry St | 255-274 | LP | | 4,1.5 | 1940 | 230 | | | 230 | 1.2 | 2.4 | 2 | 2 | 0 | 15.44 |
| 1554 | 2015 | 90000146658 | 3/2/2014 | 1/21/2015 | N VanWinkle | RI | Providence | Christopher St | #200 | Devon St | 44-97 | LP | | 6 | 1962 | 1430 | 1430 | 1430 | 500 | 1.0 | 1.7 | 5 | 0 | 0 | 6.66 |
| 1629 | 2015 | 90000146498 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Providence | Elmdale St | Laurel Hill Ave | EOM | 189-205 | LP | | 6,2 | 1951 | 330 | 330 | 330 | 330 | 1.2 | 1.7 | 1 | 1 | 0 | 13.52 |
| 1628 | 2015 | 90000146496 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Providence | Lynch | Atwells Ave | EOM | 1-5 | LP | | 2 | 1960 | 195 | 195 | 195 | 195 | 1.0 | 1.7 | 3 | 1 | 0 | 36.74 |
| 1216 | 2015 | 90000146492 | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Smithfield | Circle Rd | Lakeside Dr | Old County Rd | 1-12 | 35# | | 2 | 1958 | 2475 | | | 500 | 1.0 | 1.7 | 2 | 1 | 0 | 6.99 |
| 1213 | 2015 | 90000146490 | 1/21/2015 | 1/21/2015 | N VanWinkle | RI | Smithfield | Farnum Pl | #3 | #39 | 3-39 | 35# | | 2 | 1960 | 1070 | 1070 | 1070 | 650 | 1.2 | 2.4 | 3 | 2 | 0 | 11.32 |
| 1627 | 2015 | 90000146494 | 1/21/2015 | 1/21/2015 | N VanWinkle | RI | Smithfield | Spencer Rd | Barnes St | Sutton St | 17-38 | 35 | | 2 | 1967 | 3095 | 3095 | 3095 | 500 | 1.0 | 2.4 | 4 | 0 | 0 | 11.40 |
| 1553 | 2015 | 90000142677 | 5/9/2014 | 5/9/2014 | N VanWinkle | RI | Smithfield | Tucker Rd | Concord St | Sutton St | 3-15 | 35# | | 2 | 1967 | 2640 | 2480 | 2385 | 590 | 1.0 | 2.4 | 4 | 1 | 0 | 12.85 |
| 1624 | 2015 | 90000146488 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Warren | Beach St | Main St | #66 | 11-66 | 8 | | 3 | 1900 | 980 | 880 | 980 | 500 | 1.2 | 2.4 | 1 | 1 | 0 | 8.20 |
| 1625 | 2015 | 90000146460 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Warren | Everett St | Kickemuit Rd | EOM | 41-72 | LP | | 3 | 1940 | 450 | 450 | 450 | 450 | 1.0 | 1.7 | 2 | 0 | 0 | 6.70 |
| 1626 | 2015 | 90000146455 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Warren | Market St | 246 | 314 | 246-314 | 60 | | 4 | 1940 | 1100 | 1100 | 1100 | 500 | 1.2 | 2.4 | 2 | 0 | 0 | 7.60 |
| 1558 | 2015 | 90000146438 | 5/9/2014 | 5/9/2014 | N VanWinkle | RI | Warwick | Alger Ave | Post Rd | John Wickes Ave | 2-94 | 35# | | 2 | 1932 | 985 | | | 500 | 1.2 | 2.4 | 5 | 1 | 0 | 20.60 |
| 1557 | 2015 | 90000142444 | 5/9/2014 | 5/9/2014 | N VanWinkle | RI | Warwick | Almy St | Berry Field Rd | EOM | 12-57 | 35# | | 2 | 1949 | 540 | 540 | 365 | 500 | 1.5 | 2.4 | 2 | 2 | 0 | 12.15 |
| 1559 | 2015 | 90000142461 | 5/9/2014 | 5/9/2014 | N VanWinkle | RI | Warwick | Alpine St | Church Ave | Bend St | 13-83 | 35# | | 2 | 1929 | 1060 | 1060 | 1060 | 500 | 1.0 | 2.4 | 4 | 0 | 0 | 15.90 |
| 1647 | 2015 | 90000150324 | | | N VanWinkle | RI | Warwick | Apple Tree Ln | Pocono Dr | #1 | 1-122 | 35 | | 2 | 1958 | 3915 | 3915 | 3915 | | 1.0 | 2.4 | 0 | 0 | 0 | PW |
| 1563 | 2015 | 90000142469 | 5/9/2014 | 5/9/2014 | N VanWinkle | RI | Warwick | Beaver Ave | Warmick Neck Ave | Charlestown Ave | 15-88 | 35# | | 2 | 1950 | 1880 | 1880 | 1800 | 500 | 1.0 | 2.4 | 8 | 3 | 0 | 18.23 |
| 1567 | 2015 | 90000142529 | 5/9/2014 | 5/9/2014 | N VanWinkle | RI | Warwick | Commonwealth ave | #688 | #750 | 688-750 | 35# | | 4 | 1967 | 870 | 870 | 870 | 540 | 1.0 | 2.4 | 3 | 2 | 0 | 14.13 |
| 1565 | 2015 | 90000142515 | 1/21/2015 | 1/21/2015 | N VanWinkle | RI | Warwick | Crestwood Dr | Windemere Wa | #215 | 215-330 | 35# | | 2 | 1940 | 1945 | 1945 | 1945 | 500 | 1.0 | 2.4 | 5 | 3 | 0 | 16.07 |
| 761 | 2015 | 90000119984 | 1/1/2012 | 5/22/2014 | N VanWinkle | RI | Warwick | Cypress St | Jefferson BL | EOM | | 35# | | 2 | 1967 | 135 | | | 135 | 1 | 2.4 | 3 | 1 | 0 | 18.90 |
| 1569 | 2015 | 90000142547 | 5/9/2014 | 5/9/2014 | N VanWinkle | RI | Warwick | Greenwich Ave | Greenwood Ave | EOM | 887-1055 | 35# | | 2,8,3 | 1951 | 2465 | 4275 | 4275 | 500 | 1.2 | 2.4 | 5 | 8 | 0 | 8.20 |
| 1570 | 2015 | 90000146664 | 5/9/2014 | 5/9/2014 | N VanWinkle | RI | Warwick | Greenwich Ave 2 | Greenwood Ave | Potters Ave | 819-882 | 35# | | 3,2 | 1951 | 895 | | | 500 | 1.2 | 2.4 | 4 | 4 | 0 | 14.00 |
| 1573 | 2015 | 90000142570 | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Warwick | Lima st | #40 | Glendale Ave | 4-40 | 35# | | 2 | 1947 | 760 | 760 | 715 | 500 | 1.0 | 2.4 | 4 | 1 | 0 | 12.73 |
| 1621 | 2015 | 90000146436 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Warwick | Main Ave | Spooner Ave | Alvin St | 930-1099 | 35 | | 2 | 1949 | 1460 | 1460 | 2075 | 850 | 1.0 | 2.4 | 5 | 4 | 0 | 14.85 |

| Project # | FY | WO# | Initial Date of Identification | Date of Analysis | Evaluating Engineer | Division | Town | Street | From | To | Address Range | System Pressure (PSIG) | CP System | Exst Diameter | YOI | Relay Footage Length of main to be replaced | Install Footage | Abandon Footage | Cluster Footage Distance from first leak to the last leak in the 'cluster' | Building Consequnce Factor If there are no buildings in the area = 0 If there are only single family homes = 1 If there are small buildings (multi-family strip malls, etc) = 1.2 If there are public buildings (school, church, hospital, etc) = 1.5 | DIMP Factor see DIMP Factors List (updated 11/25/2014) | *X Total Leak Repairs* | *Total Open Workables* | *Total Open Non-Workables* | *Prioritization Factor (Pr)* *If the Pr Factor is greater than 12, the segment is considered 'actively corrodina'.* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1622 | 2015 | 90000146434 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Warwick | Meadow St | Centerville Rd | EOM | 100-135 | 35 | | 2 | 1958 | 575 | 575 | 575 | 500 | 1.2 | 2.4 | 4 | 2 | 0 | 19.00 |
| 1579 | 2015 | 90000142591 | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Warwick | Northup St | Okland Beach Ave | Shore View Rd | 9-193 | 35# | | 2 | 1952 | 3105 | 3105 | 3105 | 500 | 1.0 | 2.4 | 5 | 1 | 0 | 14.90 |
| 1623 | 2015 | 90000146431 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Warwick | Palm BL | Post Rd | #1 | 1-70 | 35 | | 2 | 1938 | 900 | 900 | 900 | 550 | 1.2 | 2.4 | 7 | 3 | 0 | 20.40 |
| 1582 | 2015 | 90000142605 | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Warwick | Pritan Dr -Elmwood Ave | Post Rd | Puritan Dr | 2168-2238 | 35# | | 2 | 1930 | 1820 | 1820 | 1820 | 500 | 1.0 | 2.4 | 7 | 0 | 0 | 15.57 |
| 1583 | 2015 | 90000142613 | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Warwick | Red Chimney Dr | Timberline Dr | EOM | 35-129 | 35# | | 2 | 1956 | 1810 | 1810 | 1810 | 500 | 1.5 | 2.4 | 4 | 1 | 0 | 17.40 |
| 1584 | 2015 | 90000142619 | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Warwick | Sweet St | Victory St | #41 | 41-81 | 35# | | 2 | 1954 | 840 | | | 500 | 1.0 | 2.4 | 6 | 2 | 0 | 13.90 |
| 1588 | 2015 | 90000142632 | 5/13/2014 | 1/21/2015 | N VanWinkle | RI | Warwick | Tennyson Rd | Post Rd | EOM | 1344-261 | 35# | | 2 | 1946 | 3025 | 3045 | 3045 | 500 | 1.0 | 2.4 | 7 | 1 | 0 | 17.57 |
| 1589 | 2015 | 90000142638 | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Warwick | Tirnan Ave | Davidson Rd | Darrow Dr | 5-30 | 35# | | 2 | 1957 | 405 | 405 | 405 | 405 | 1.0 | 2.4 | 3 | 3 | 0 | 15.36 |
| 1587 | 2015 | 90000142625 | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Warwick | Trinity St | Natick Ave | Hillard Ave | 23-131 | 35# | | 2 | 1950 | 2235 | 2335 | 2670 | 500 | 1.0 | 2.4 | 5 | 0 | 0 | 14.90 |
| 1592 | 2015 | 90000142640 | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Warwick | Warwick Neck Ave | Rock Point Ave | Blackstone Ave | 351-588 | 35# | | 6,4 | 1956 | 4020 | 4050 | 4050 | 500 | 1.5 | 2.4 | 4 | 4 | 0 | 18.65 |
| 1619 | 2015 | 90000146427 | 9/18/2014 | 9/18/2014 | N VanWinkle | RI | West Warwick | Coogan Ct | Clyde St | EOM | 7-12 | 35 | | 2 | 1940 | 205 | 205 | 205 | 205 | 1.0 | 2.4 | 1 | 1 | 0 | 22.73 |
| 1219 | 2015 | 90000142434 | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | West Warwick | Elbow St | Phenix Ave | Angell St | 23-27 | 35# | | 2 | 1965 | 210 | 210 | 210 | 210 | 1.0 | 2.7 | 1 | 0 | 0 | 16.99 |
| 1547 | 2015 | 90000142427 | 5/9/2014 | 1/22/2015 | N VanWinkle | RI | West Warwick | Epworth Ave | Main st | EOM | 8-50 | 35# | | 2 | 1965 | 535 | 535 | 535 | 500 | 1.2 | 2.4 | 4 | 0 | 0 | 20.97 |
| 1220 | 2015 | 90000142421 | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | West Warwick | Main St | Washington St | Robert St | 1277-1321 | 35# | | 2 | 1960 | 741 | 775 | 775 | 500 | 1.0 | 2.7 | 1 | 1 | 0 | 10.03 |
| 1620 | 2015 | 90000146429 | 9/18/2014 | 9/18/2014 | N VanWinkle | RI | West Warwick | Manchester St | Pulaski St | #16 | 16-47 | 35 | | 2 | 1962 | 665 | 665 | 665 | 500 | 1.2 | 2.4 | 1 | 0 | 0 | 6.00 |
| 1618 | 2015 | 90000146444 | 9/18/2014 | 9/18/2014 | N VanWinkle | RI | Westerly | Bradford | S Main St | Woody Hill Rd | 275-360 | 60 | | 4 | 1940 | 2825 | 2825 | 2825 | 500 | 1.0 | 2.4 | 3 | 3 | 0 | 11.07 |
| 1615 | 2015 | 90000145784 | 9/8/2014 | 9/8/2014 | N VanWinkle | RI | Westerly | Dayton St | Pierce St | Pleasant St | 3-25 | #60 | | 3 | 1940 | 665 | 665 | 665 | 500 | 1.2 | 2.4 | 1 | 1 | 0 | 9.20 |
| 1223 | 2015 | 90000130954 | 1/1/2013 | 9/18/2014 | N VanWinkle | RI | Westerly | East St 2 | Riverview Ave | Sosoa Ln | | LP | | 4 | 1940 | 3425 | 3425 | 3425 | 500 | 1.0 | 1.7 | 3 | 1 | 0 | 15.70 |
| 1611 | 2015 | 90000145676 | 8/1/2014 | 8/1/2014 | N VanWinkle | RI | Westerly | Joseph | Brenden | Henery | 1-22 | 35 | | 4,2 | 1940 | 3550 | 3550 | 3550 | 500 | 1.2 | 2.4 | 1 | 2 | 0 | 10.80 |
| 1616 | 2015 | 90000146446 | 9/1/2014 | 9/1/2014 | N VanWinkle | RI | Westerly | Margin St | Greenman Ave | beach St | 2-19 | LP to 60# | | 4, 3 | 1940 | 2960 | 2960 | 2960 | 500 | 1.2 | 1.7 | 2 | 0 | 0 | 8.50 |
| 1617 | 2015 | 90000146450 | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Westerly | Yankee | Netherwood | Davenport St | 12-42 | 21 | | 2 | 1940 | 1590 | 1590 | 1590 | 500 | 1.2 | 2.4 | 3 | 1 | 0 | 12.40 |
| 1645 | 2016 | 90000150292 | 11/12/2014 | 11/12/2014 | N VanWinkle | RI | Warwick | Ardway Ave | #86 | EOM near # 46 | 46-86 | 35 | | 2 | 1929 | 320 | 320 | 320 | 320 | 1.0 | 2.4 | 2 | 0 | 0 | 19.33 |
| 1644 | 2016 | 90000150295 | 11/12/2014 | 11/12/2014 | N VanWinkle | RI | Warwick | Creston Wa | Crestwood Rd | Weschester Wa | 6-60 | 35 | | 2 | 1940 | 1615 | 1615 | 1615 | 500 | 1.0 | 2.4 | 4 | 0 | 0 | 18.73 |
| 1640 | 2016 | 90000150297 | 11/12/2014 | 11/12/2014 | N VanWinkle | RI | Warwick | Foxcroft Ave | Lindbrook Dr | Peabody Dr | 3-67 | 35 | | 2 | 1959 | 3620 | 3620 | 3620 | 500 | 1.0 | 2.4 | 4 | 0 | 0 | 13.40 |
| 1642 | 2016 | 90000150299 | 11/12/2014 | 11/12/2014 | N VanWinkle | RI | Warwick | Hedgerow Dr | LadderLook Dr | Major Potter Rd | 65-155 | 35 | | 2 | 1965 | 910 | 910 | 910 | 500 | 1.0 | 2.4 | 3 | 0 | 0 | 16.07 |
| 1646 | 2016 | 90000150306 | 11/12/2014 | 11/12/2014 | N VanWinkle | RI | Warwick | Love Ln 2 | #425 | #437 | 425-437 | 35 | | 8 | 1958 | 65 | 65 | 65 | 65 | 1.0 | 2.4 | 3 | 0 | 0 | 67.78 |
| 1641 | 2016 | 90000150315 | 11/12/2014 | 11/12/2014 | N VanWinkle | RI | Warwick | Manning St | Wilson Ave | Brushneck Ave | 112-178 | 35 | | 2 | 1948 | 2735 | 2735 | 2735 | 500 | 1.0 | 2.4 | 4 | 0 | 0 | 13.90 |
| 1638 | 2016 | | 11/12/2014 | 11/12/2014 | N VanWinkle | RI | Warwick | Marquette St | Farnum Rd | EOM | 1-47 | 35 | | 2 | 1949 | 1145 | 1145 | 1145 | 500 | 1.0 | 2.4 | 3 | 0 | 0 | 13.23 |
| 1639 | 2016 | 90000150290 | 11/12/2014 | 11/12/2014 | N VanWinkle | RI | Warwick | Vaughn Ave | Post Rd | Sharon St | 18-111 | 35 | | 2 | 1929 | 1100 | 1100 | 1100 | 500 | 1.0 | 2.4 | 3 | 2 | 0 | 13.40 |
| 1643 | 2016 | 90000150285 | 11/12/2014 | 11/12/2014 | N VanWinkle | RI | Warwick | Vineyard Rd | Burgoyne Dr | #248 | 165-248 | 35 | | 2 | 1958 | 2310 | 2310 | 2310 | 500 | 1.2 | 2.4 | 5 | 1 | 0 | 16.20 |
| 1637 | 2016 | 90000150287 | 11/12/2014 | 11/12/2014 | N VanWinkle | RI | Warwick | Vineyard Rd 2 | Ticonderoga Dr | Burgoyne Dr | 303-332 | 35 | | 2 | 1958 | 615 | 615 | 615 | 500 | 1.2 | 2.4 | 3 | 2 | 0 | 13.00 |
| 867 | 2019 | 9000118523 | 1/1/2013 | 1/6/2014 | N VanWinkle | RI | Westerly | Spruce | Park | End | | Low to 60# | | 4 | 1940 | 2250 | 2250 | 3810 | 600 | 1.2 | 1.7 | 1 | 0 | 0 | 8.37 |
| 1098 | 2020 | 9000118311 | 1/1/2013 | 1/7/2014 | N VanWinkle | RI | Cranston | Broad St | Chiswick Rd | Tucker Ave | | LP | | 6 | 1960 | 1570 | 1570 | 1570 | 500 | 1.2 | 2.4 | 6 | 0 | 0 | 21.40 |
| | 2020 | | 1/20/2014 | 1/20/2014 | N VanWinkle | RI | Newport | Whitwell Ave | Bliss Rd | Watson Rd | 2-52 | LP | | 4 | 1933 | 1200 | 1200 | 1200 | 500 | 1.0 | 1.7 | 2 | 0 | 0 | 4.53 |
| 932 | 2020 | 9000112036 | 1/1/2013 | 2/13/2015 | N VanWinkle | RI | North Kingstown | Post Rd | #6000 | #5941 | 5941-6000 | 35# | | 8 | 1954 | 1784 | 1784 | 1784 | 500 | 1.0 | 0.0 | 0 | 0 | 0 | 2.67 |
| | | | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Barrington | Brentwood | Rumstick rd | EOM | 4-23 | 25 | | 2 | 1937 | 1550 | 1810 | 1550 | 500 | 1.0 | 2.4 | 1 | 3 | 0 | 7.90 |
| | | | 1/20/2014 | 1/20/2014 | N VanWinkle | RI | Barrington | George Finnerty Rd | New Meadow Rd | #5 | #5 | 25 | | 2 | 1961 | 215 | 215 | 215 | 400 | 1.0 | 2.4 | 3 | 0 | 0 | 10.53 |
| 1157 | | | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Barrington | Lantern Ln | Rumstick Rd | Lantern Ln | 9-27 | 35 | | 2 | 1950 | 2496 | | | 500 | 1.0 | 1.7 | 3 | 0 | 0 | 6.70 |
| 1161 | | | 1/1/2013 | 3/21/2014 | N VanWinkle | RI | Barrington | Washington Rd | Milton Rd | Brook St | 48-110 | 25 | | 2 | 1961 | 1900 | | | 500 | 1.0 | 1.7 | 1 | 1 | 0 | 4.53 |
| | | | 1/20/2014 | 1/20/2014 | N VanWinkle | RI | Bristol | State St | High St | Wood St | 131-173 | LP | | 4 | 1940 | 670 | 670 | 670 | 500 | 1.5 | 1.7 | 1 | 0 | 0 | 5.70 |
| | | | 1/20/2014 | 1/20/2014 | N VanWinkle | RI | Centeral falls | Budlong Rd | Midvale Ave | Farrar St | 185-305 | LP | | 6 | 1961 | 3450 | 3450 | 3450 | 500 | 1.2 | 1.7 | 4 | 0 | 0 | 13.50 |
| | | | 9/17/2014 | 9/17/2014 | N VanWinkle | RI | Centeral falls | Walnut St | Broad St | #60 | 14-60 | LP | | 4 | 1940 | 670 | 670 | 670 | 500 | 1.2 | 1.7 | 1 | 0 | 0 | 6.10 |
| 1166 | | | 5/5/2014 | 5/5/2014 | N VanWinkle | RI | Central Falls | Emmett St | Lonsdale Ave | Townline | | Low to 99# | | 2 | 1910 | 1023 | | | 500 | 1.0 | 0.0 | 0 | 0 | 0 | 0.00 |
| 1165 | | | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Central Falls | King St, Summer St | Washiington St | Perry St | | Low | | 3 | 1940 | 1107 | | | 500 | 1.0 | 0.0 | 0 | 0 | 0 | 0.00 |
| 1164 | | | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Central Falls | Lonsdale Ave | Dexter St | Althea Ave | | Low & 60# | | 4 | 1911 | 2512 | | | 500 | 1.0 | 0.0 | 0 | 0 | 0 | 0.00 |
| 1169 | | | 3/21/2014 | 3/21/2014 | N VanWinkle | RI | Coventry | Anderson | Raymond St | EOM | 19-37 | 35 | | 2 | 1961 | 620 | | | 500 | 1.0 | 1.7 | 1 | 0 | 0 | 3.16 |
| 1169 | | | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Coventry | Anderson Ave | Yates Ave | Raymond St | 19-37 | 35# | | 2 | 1961 | 623 | | | 500 | 1.0 | 2.4 | 1 | 0 | 0 | 5.40 |
| 1170 | | | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Coventry | Manor Dr | S Main St | end | 1-23 | 35# | | 2 | 1965 | 982 | | | 500 | 1.0 | 0.0 | 0 | 0 | 0 | 0.00 |
| 1550 | | | 5/9/2014 | 5/9/2014 | N VanWinkle | RI | Cranston | Angell Ave | Overbrook Dr | #126 | 126-208 | 35# | | 2 | 1958 | 1590 | | | 500 | 1.0 | 2.4 | 4 | 0 | 0 | 6.40 |
| 1176 | | | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Cranston | Blais Ave | #21 | #229 East St | 11-21 | 35# | | 2 | 1963 | 215 | | | 500 | 1.0 | 0.0 | 0 | 0 | 0 | 0.00 |
| 1180 | | | 5/13/2014 | 5/13/2014 | N VanWinkle | RI | Cranston | New London Ave | Townline | Warfield Ave | 1330-1414 | 35# | | 6 | 1958 | 1250 | | | 500 | 1.2 | 1.7 | 0 | 3 | 0 | 4.50 |
| | | | 1/20/2014 | 1/20/2014 | N VanWinkle | RI | Cranston | Woodridge Ave | Reservior Ave | EOM | | LP | | 6 | 1963 | 245 | 245 | 245 | 245 | 1.5 | 1.7 | 7 | 0 | 0 | 52.72 |

| Project # | FY | WO# | Initial Date of Identification | Date of Analysis | Evaluating Engineer | Division | Town | Street | From | To | Address Range | System Pressure (PSIG) | Exst Diameter | YOI | Install Footage | Abandon Footage | Cluster Footage<br>Distance from first leak to the last leak in the 'cluster' | Building Consequnce Factor<br>If there are no buildings in the area = 0<br>If there are only single family homes = 1<br>If there are small builindgs (multi-family, strip malls, etc) = 1.2<br>If there are p | DIMP Factor see DIMP Factors List (updated 11/25/2014) | *X Total Leak Repairs* | *Total Open Workables* | *Total Open Non-Workables* | *Prioritization Factor (Pr)*<br>*If the Pr Factor is greater than 12, the segment is considered 'actively corroding'.* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 9/1/2014 | 9/1/2014 | N Van Winkle | RI | North Providence | Woodard Ave | #739 | Town Line | 739-759 | 60 | 2 | 1973 | 240 | 240 | | 1.0 | | 0 | 0 | 0 | |
| 1614 | 2015 | 90000145782 | 9/1/2014 | 9/1/2014 | N Van Winkle | RI | Westerly | High St | Potter Hill Rd | Center St | 269-315 | 60 | 4 | 1973 | 2285 | 2285 | | 1.2 | | 0 | 0 | 0 | |
| 1648 | 2015 | 90000151877 | 9/1/2014 | 9/1/2014 | N Van Winkle | RI | Westerly | W Beach St | Beach St | EOM | 1-33 | LP | 3 | 1971 | 3275 | 3275 | | 1.0 | | 0 | 0 | 0 | |
| | | | 9/1/2014 | 9/1/2014 | N Van Winkle | RI | Westerly | Wadchu Rd | Quannacut Rd | EOM | 5-11 | 60 | 2 | 1973 | 475 | 475 | | 1.0 | | 0 | 0 | 0 | |

| Project # | FY | WO# | Initial Date of Identification | Date of Analysis | Evaluating Engineer | Division | Town | Street | From | To | Address Range | System Pressure (PSIG) | Exst Diameter | YOI | Install Footage | Abandon Footage | Cluster Footage<br>Distance from first leak to the last leak in the 'cluster' | Building Consequnce Factor<br>If there are no buildings in the area = 0<br>If there are only single family homes = 1<br>If there are small builindgs (multi-family, strip malls, etc) = 1.2<br>If there are p | DIMP Factor see DIMP Factors List (updated 11/25/2014) | *X Total Leak Repairs* | *Total Open Workables* | *Total Open Non-Workables* | *Prioritization Factor (Pr)*<br>*If the Pr Factor is greater than 12, the segment is considered 'actively corroding'.* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Project # | FY | WO# | Initial Date of Identification | Date of Analysis | Evaluating Engineer | Division | Town | Street | From | To | Address Range | System Pressure (PSIG) | Exst Diameter | YOI | Install Footage | Abandon Footage | Cluster Footage<br>Distance from first leak to the last leak in the 'cluster' | Building Consequnce Factor<br>If there are no buildings in the area = 0<br>If there are only single family homes = 1<br>If there are small builindgs (multi-family, strip malls, etc) = 1.2<br>If there are p | DIMP Factor see DIMP Factors List (updated 11/25/2014) | *X Total Leak Repairs* | *Total Open Workables* | *Total Open Non-Workables* | *Prioritization Factor (Pr)*<br>*If the Pr Factor is greater than 12, the segment is considered 'actively corroding'.* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

PUC 2-4

Request:

On the attachment to PUC 1-16, in the column "Slotted FY", identify what that column indicates.

Response:

The column labeled "Slotted FY" on Attachment PUC 1-16 represents the targeted fiscal year of the project's approval and field execution.

Prepared by or under the supervision of: David G. Iseler

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PUC 2-5

Request:

On the attachment to PUC 1-16, in the column "Work Order", please provide whether that means a project has begun or is complete.

Response:

The column labeled "Work Order" on Attachment PUC 1-16 represents the work order for tracking the project from identification through completion. It does not represent a project status.

Prepared by or under the supervision of: David G. Iseler

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PUC 2-6

Request:

With respect to PUC-1-17, please provide a history of all performance metrics the Company sues to evaluate the effectiveness of the program including leaks per mile.

Response:

Attachment PUC 2-6 contains data relative to Rhode Island extracted from the National Grid 2013 Gas Distribution Systems Trend-Based Integrity Analysis. The trend-based analysis provides a view of gas system main and service performance trends over a ten-year period. The analysis includes, in part, metrics related to the inventory of facilities, leak receipts, and leak repairs.

Prepared by or under the supervision of: David G. Iseler

# 2013 SYSTEM INTEGRITY REPORT

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## *Enterprise*
## *Gas Distribution Systems*
## Trend-Based Integrity Analysis

# RI

**Gas Distribution Engineering**
**Network Strategy – Gas Systems Engineering**

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# 2013 SYSTEM INTEGRITY REPORT

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# 2013 SYSTEM INTEGRITY REPORT

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# 2013 SYSTEM INTEGRITY REPORT

# Overall Gas Distribution Integrity Assessment Summary for Rhode Island

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# 2013 SYSTEM INTEGRITY REPORT

## Overall Regional Distribution Integrity Assessment Summary

Distribution Engineering has reviewed all of the findings in the annual Trend-Based Distribution System Integrity Analysis (*System Integrity Report*) in accordance with our Distribution Integrity Management Plan, and finds the overall results to be good. There are no immediate causes for concern that would warrant changes to DIMP. Some anomalies were found and either explained as non-systemic or set up for continued research and/or monitoring. These will be explained in notes to this report. It is noted here that CI main break rates increased in every region and this is believed to be weather dependent.

Below is a summary of the individual key integrity measure results for the eight (8) federal (PHMSA) filing entities that constitute National Grid-US.

| NATIONAL GRID 2013 System Integrity Report Summary | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| REGIONS / ITEMS | KEDNY | KEDLI | NMPC | BGC | EGC | CCC | CLW | RI |
| • Leak Receipts | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↑ | ↓ |
| • Workable Leak Backlog | ↓ | ↓ | ↓ | ↑ | ↑ | — | ↑ | ↓ |
| • LPP Main and Service Inventories | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| • Overall Main Leak Rate | ↑ | ↓ | — | ↓ | ↓ | ↓ | ↓ | ↓ |
| • Cast Iron Main Break Rate | ↑ | ↑ | ↑ | ↑ | ↑ | No CI | ↑ | ↑ |
| • Steel Main Corrosion Leak Rate | ↑ | ↓ | ↓ | — | ↓ | ↓ | ↑ | ↓ |
| • Service Leak Rate | ↑ | ↓ | ↓ | ↑ | ↓ | ↑ | ↑ | ↑ |

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— No Change ↑ Slight Increase

# 2013 SYSTEM INTEGRITY REPORT

## Overall Regional Distribution Integrity Assessment Summary

**Rhode Island (RI)**

- Leak receipts decreased.
- Workable leak backlog decreased.
- Leak prone main and service inventories continue to decline steadily.
- Overall main leak rate and Steel main corrosion rate all decreased . Cast iron main break rate increased.
- Service leak rate increased.

# 2013 SYSTEM INTEGRITY REPORT

# LEAK MANAGEMENT ANALYSIS

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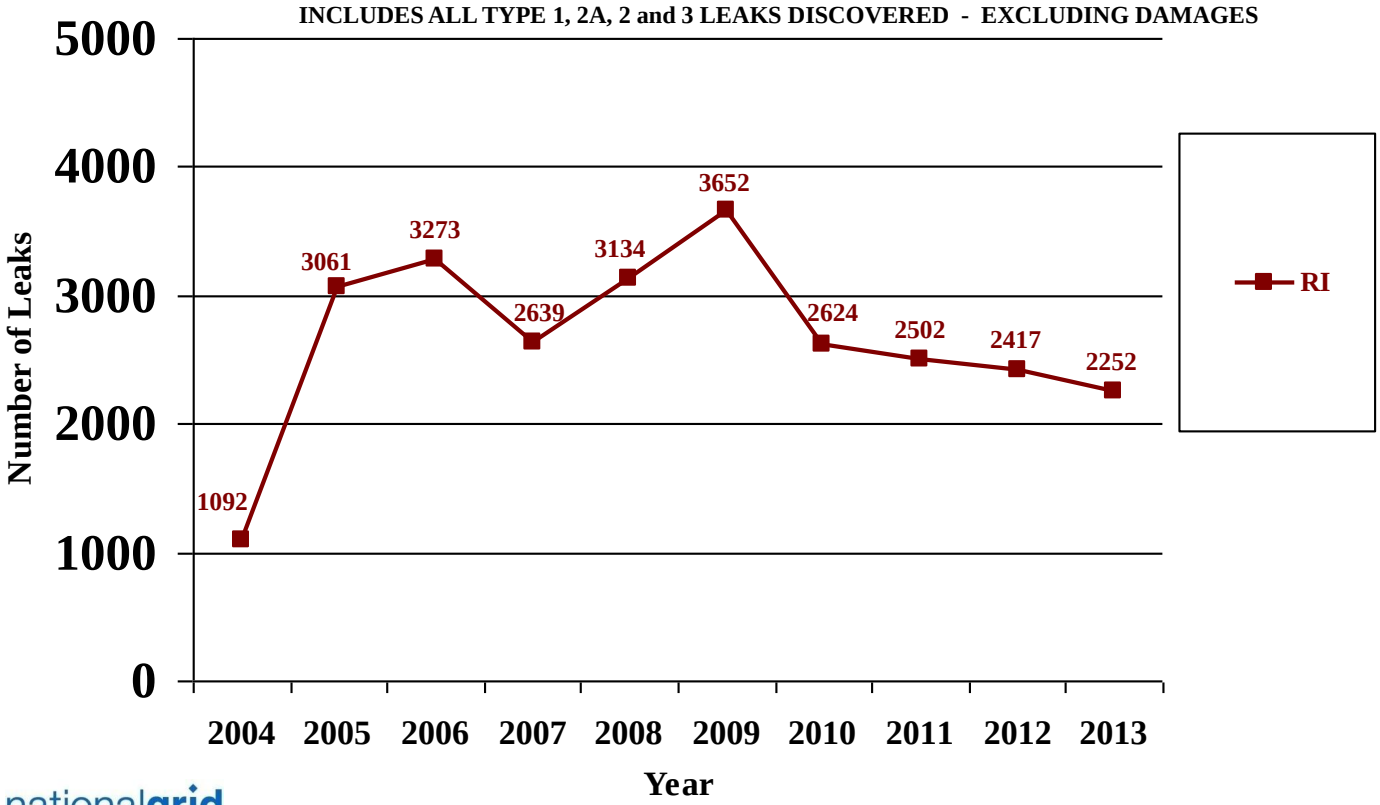
# 2013 SYSTEM INTEGRITY REPORT

## TOTAL LEAK RECEIPTS

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Note: 2004 RI Leak Receipt Data is incomplete in SmallWorld.

# 2013 SYSTEM INTEGRITY REPORT

## 2013 LEAK RECEIPTS AS A FUNCTION OF TOTAL SYSTEM PIPE MILEAGE

| NY State | MA State | RI | US-NGrid |
|---|---|---|---|
| 8,064 Leak Receipts | 6,424 Leak Receipts | 2,252 Leak Receipts | 16,740 Leak Receipts |
| 20,621 miles of Main<br>1,650,236 Services<br>(18,788 miles) | 11,021 miles of Main<br>720,001 Services<br>(7,522 miles) | 3,179 miles of Main<br>192,931 Services<br>(2,415 miles) | 34,821 miles of Main<br>2,563,168 Services<br>(28,725 miles) |
| 39,409 total miles of pipe | 18,544 total miles of pipe | 5,593 total miles of pipe | 63,546 total miles of pipe |
| ***0.20 Leak Receipts per Mile of Pipe*** | ***0.35 Leak Receipts per Mile of Pipe*** | ***0.40 Leak Receipts per Mile of Pipe*** | ***0.26 Leak Receipts per Mile of Pipe*** |

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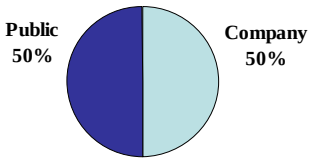
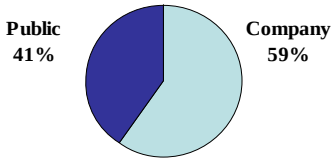
# 2013 SYSTEM INTEGRITY REPORT

## 2013 LEAK RECEIPTS
## BY DISCOVERY SOURCE (EXCLUDING DAMAGES)

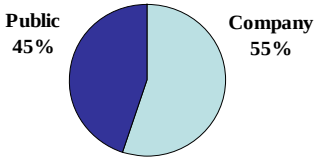
### NY State



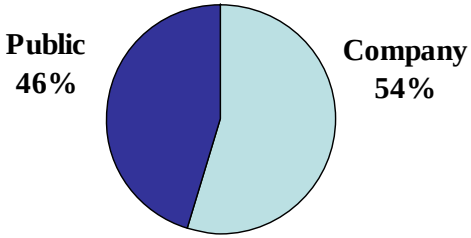

### MA State




### RI




### US-NGrid

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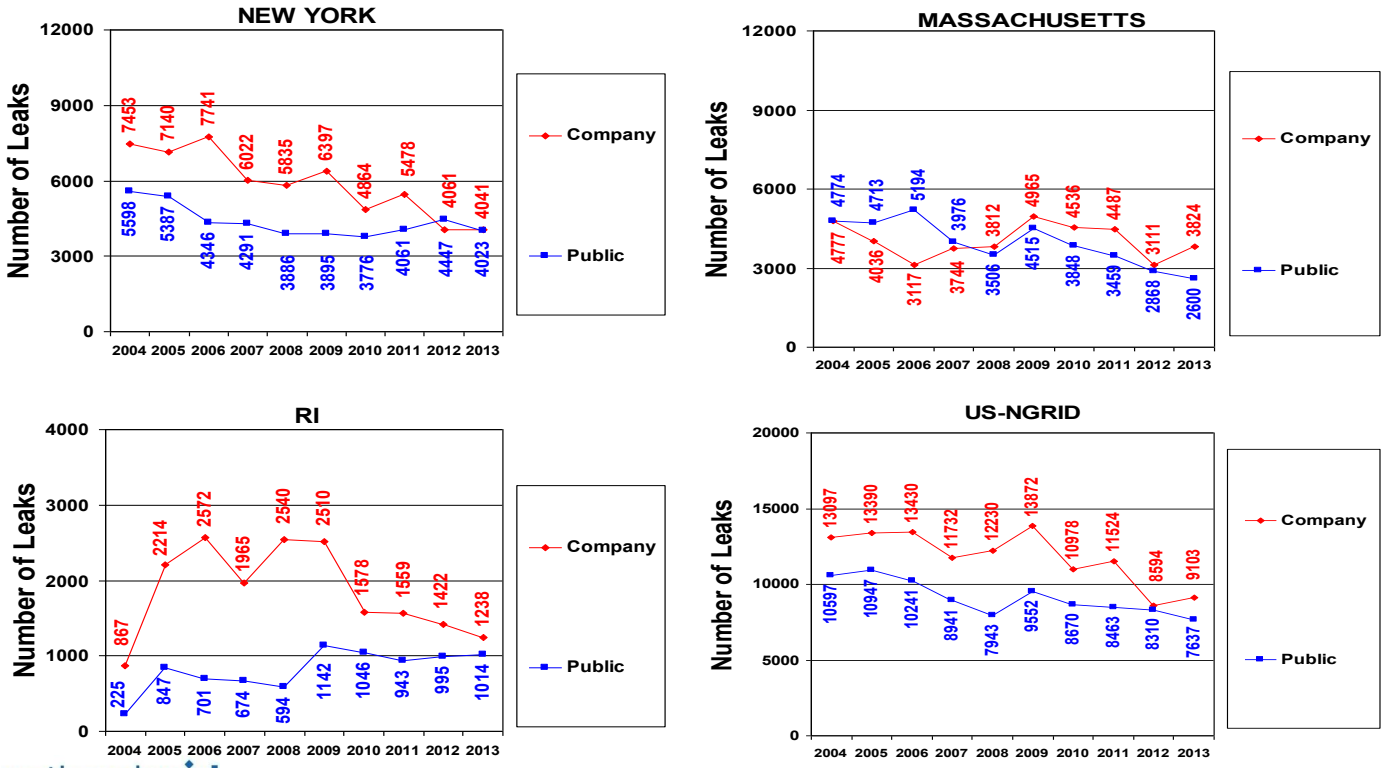
# 2013 SYSTEM INTEGRITY REPORT

## 2004 - 2013 LEAK RECEIPTS

### By Discovery Source (Excluding damages)

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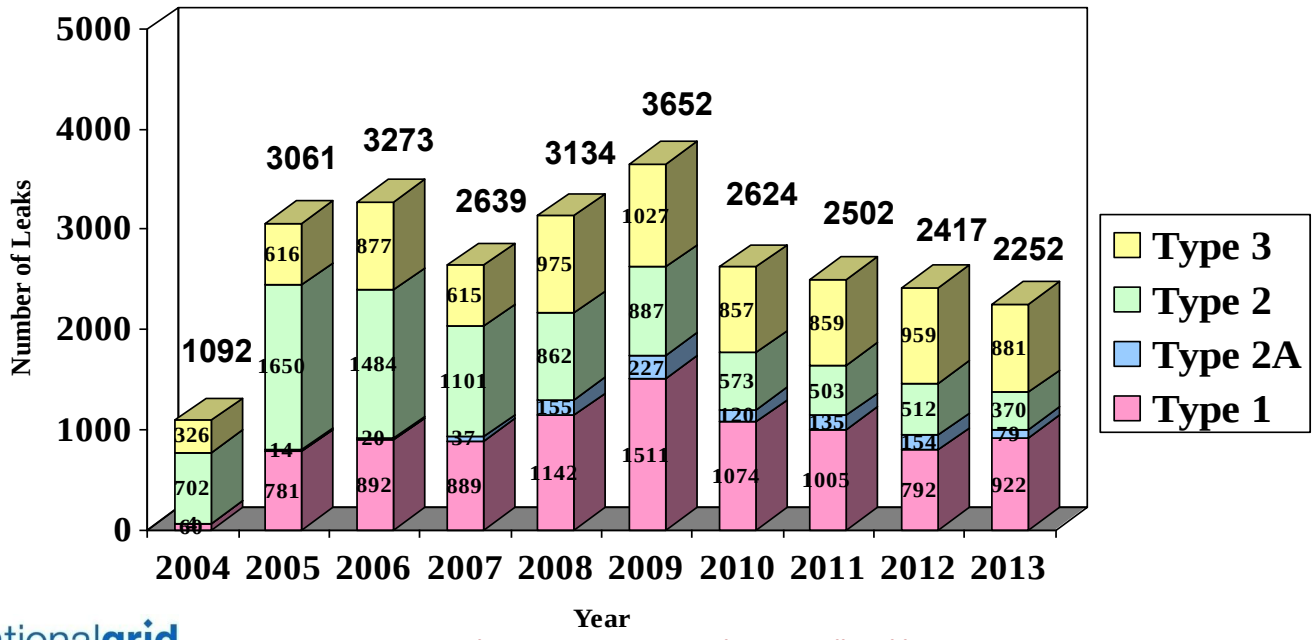
**IMPORTANT**: There have been known issues with interpreting consolidated leak source categories. This data was investigated and reformatted to show leaks found by company vs public in 2012. This issue should be addressed in the enterprise-wide LMS rollout. Further investigation will continue in 2014.

# 2013 SYSTEM INTEGRITY REPORT

RI

## LEAK RECEIPTS
## By ORIGINAL Type

**(Excluding damages)**



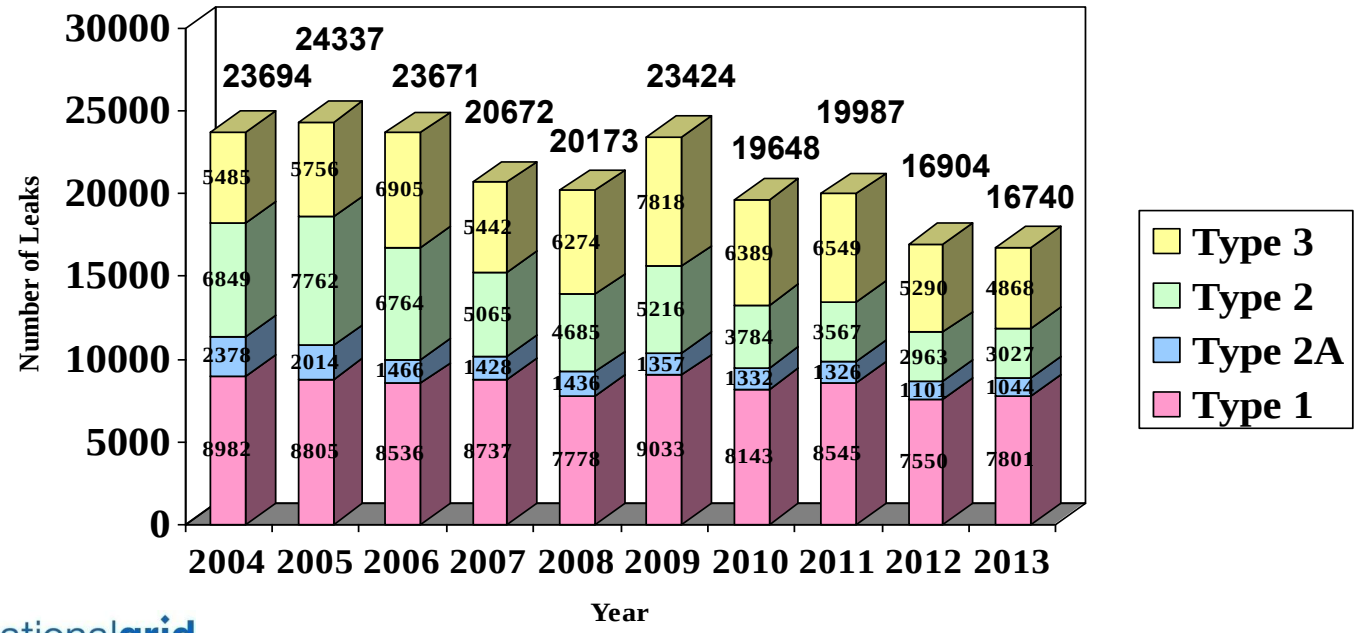

Note: 2004 RI Leak Receipt Data is incomplete in SmallWorld.

# 2013 SYSTEM INTEGRITY REPORT

US NGrid

## LEAK RECEIPTS By ORIGINAL Type

**(Excluding damages)**

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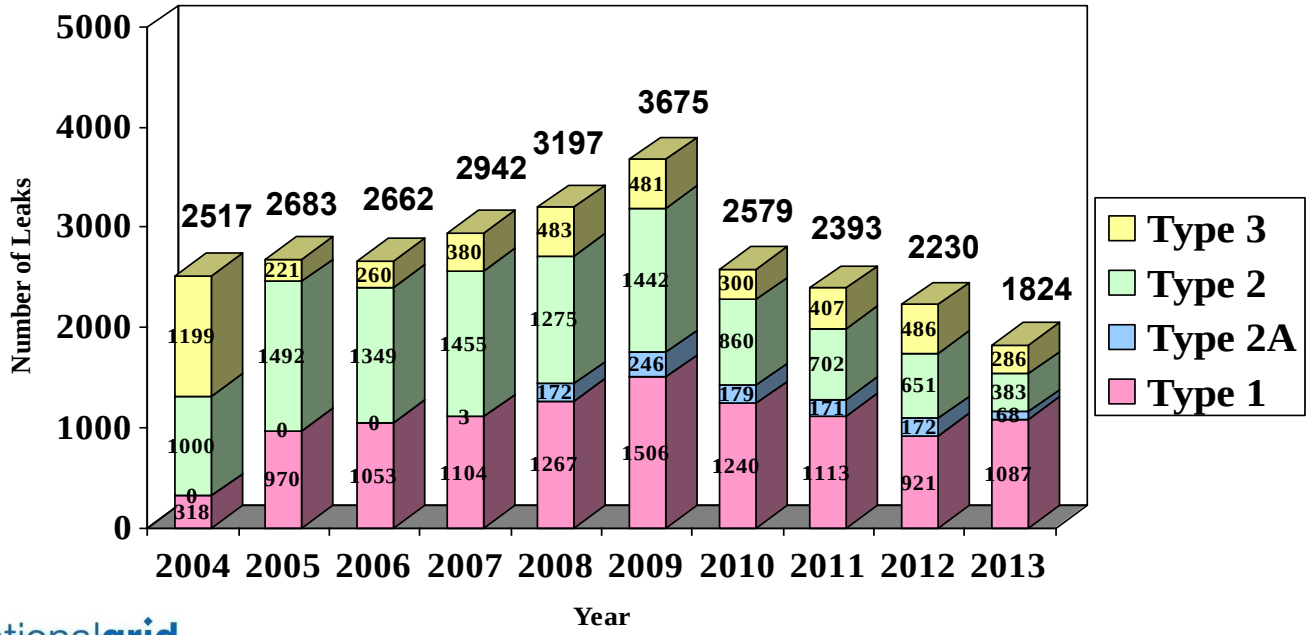
# 2013 SYSTEM INTEGRITY REPORT

## RI

## LEAKS REPAIRED
## By REPAIRED Type

**(Including damages)**

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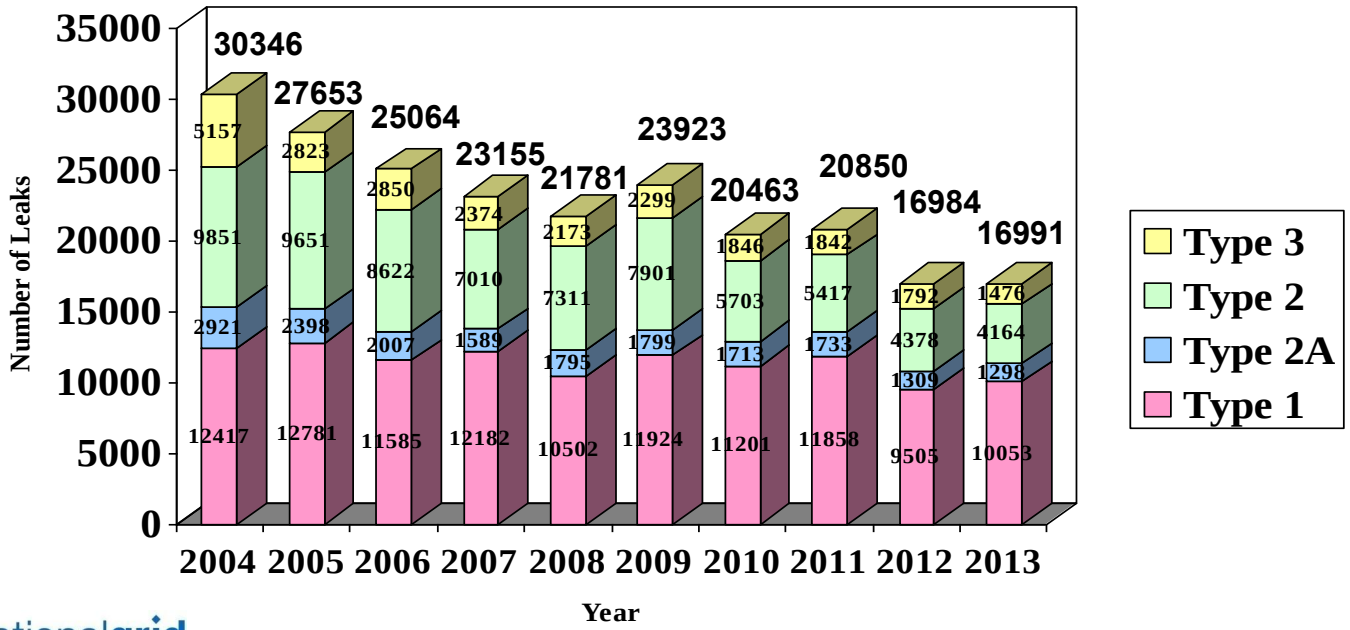
Note: 2004 RI Leak Repaired Data is incomplete in SmallWorld.

# 2013 SYSTEM INTEGRITY REPORT

US NGrid

## LEAKS REPAIRED
## By REPAIRED Type

**(Including damages)**

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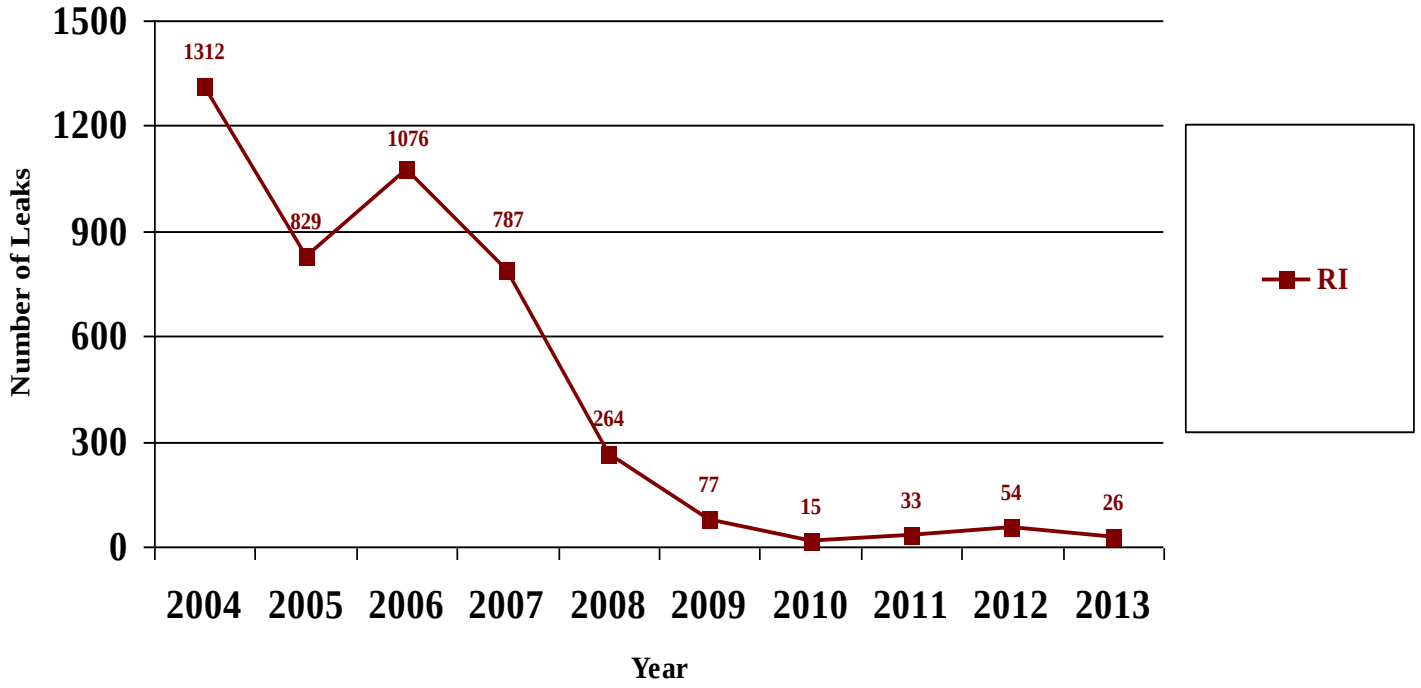
# 2013 SYSTEM INTEGRITY REPORT

## RI

## YEAR-END WORKABLE LEAK BACKLOGS

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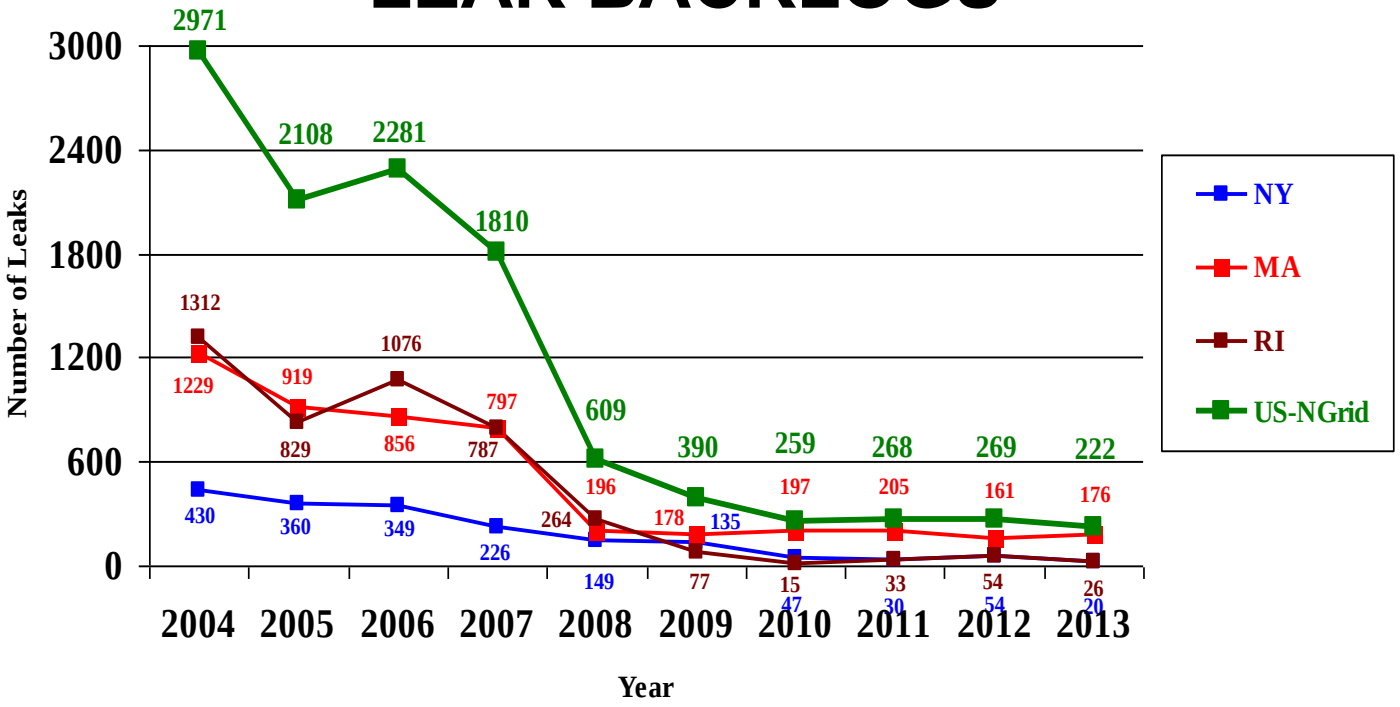
# 2013 SYSTEM INTEGRITY REPORT

NGrid

## YEAR-END WORKABLE LEAK BACKLOGS

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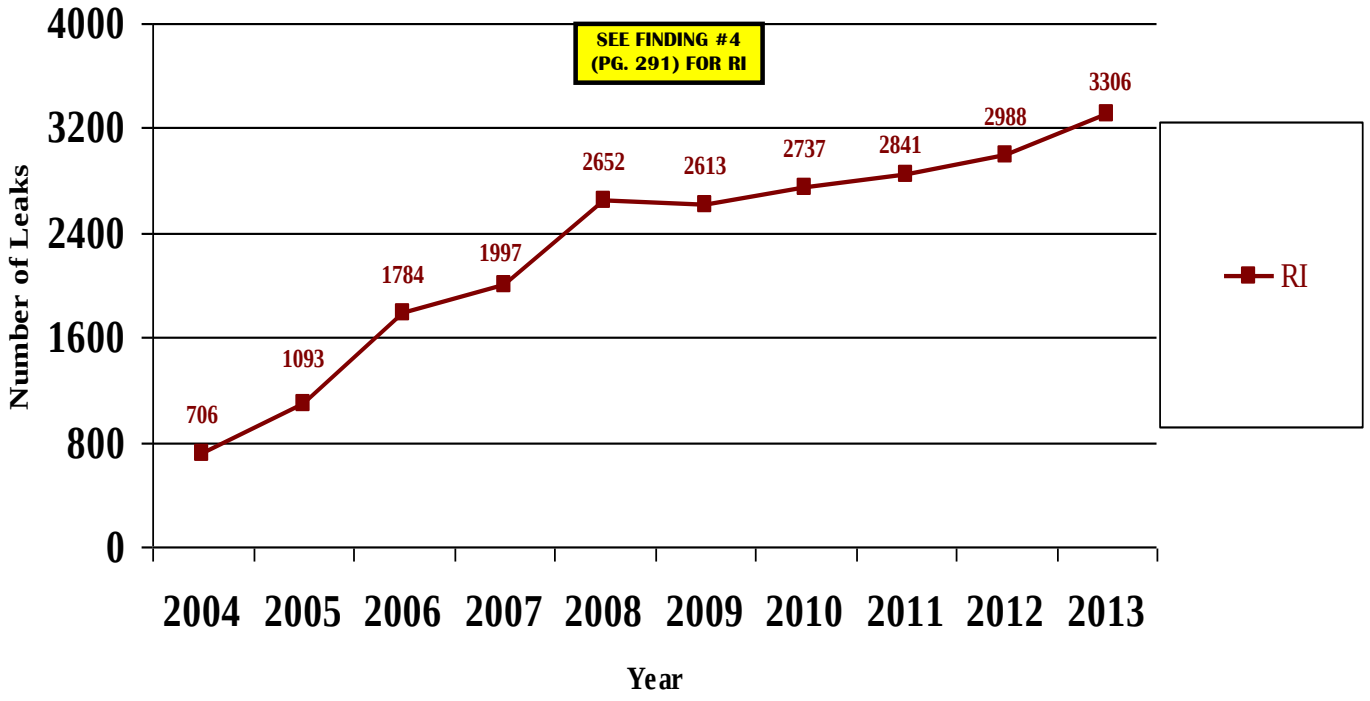
# 2013 SYSTEM INTEGRITY REPORT

## RI YEAR-END OPEN TYPE 3

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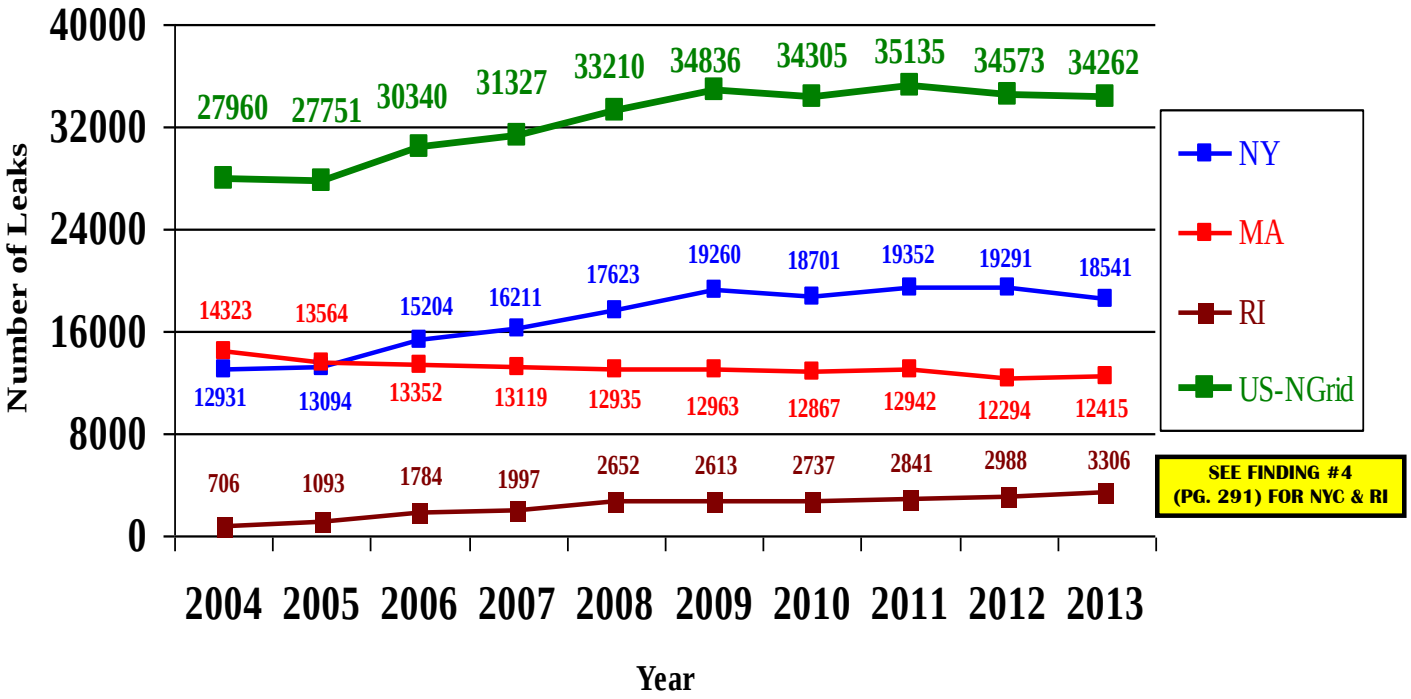
# 2013 SYSTEM INTEGRITY REPORT

NGrid

## YEAR-END OPEN TYPE 3

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# 2013 SYSTEM INTEGRITY REPORT

# MAIN INVENTORY ANALYSIS

# 2013 SYSTEM INTEGRITY REPORT

**RI**

## MAIN INVENTORY *(MILES)*

Average Age Of All RI Distribution Main: 46.4 Years

| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|---|---|---|---|---|---|---|---|---|---|
| Plastic | 861 | 891 | 918 | 941 | 968 | 1,002 | 1,044 | 1,103 | 1,168 | 1227 |
| Cast Iron | 926 | 922 | 908 | 900 | 896 | 885 | 878 | 875 | 859 | 831 |
| *PROTECTED STEEL* | 616 | 621 | 540 | 564 | 578 | 551 | 601 | 588 | 597 | 596 |
| *UNPROT'D STEEL* | 649 | 640 | 711 | 679 | 664 | 674 | 592 | 580 | 534 | 508 |
| Other | 1 | 1 | 1 | 1 | 1 | - | - | 0.007 | 0.007 | 0.007 |
| Ductile Iron | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | 16 |
| ***TOTAL MAIN*** | ***3,070*** | ***3,092*** | ***3,095*** | ***3,102*** | ***3,124*** | ***3,129*** | ***3,132*** | ***3,163*** | ***3,174*** | ***3,179*** |

**DOT-Reported Distribution Pipe Inventories**

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# 2013 SYSTEM INTEGRITY REPORT

## US-NGrid

## MAIN INVENTORY *(MILES)*

Average Age Of All US-NGrid Distribution Main: 44.12 Years

| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|---|---|---|---|---|---|---|---|---|---|
| Plastic | 11,061 | 11,604 | 11,658 | 11,892 | 12,373 | 12,855 | 13,205 | 13,558 | 14,030 | 14,477 |
| Cast Iron | 6,521 | 6,428 | 6,359 | 6,302 | 6,223 | 6,097 | 5,944 | 5,835 | 5,692 | 5,526 |
| *PROTECTED STEEL* | 9,124 | 9,329 | 8,755 | 8,939 | 8,962 | 8,971 | 9,073 | 9,113 | 9,116 | 9,108 |
| *UNPROT'D STEEL* | 6,851 | 6,569 | 7,052 | 6,856 | 6,691 | 6,493 | 6,263 | 6,069 | 5,843 | 5,695 |
| Other | 17 | 1 | 1 | 1 | 1 | 0.043 | 0.065 | 0.072 | 0.072 | 0.046 |
| Ductile Iron | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | 16 |
| ***TOTAL MAIN*** | **33,591** | **33,949** | **33,843** | **34,007** | **34,266** | **34,433** | **34,503** | **34,591** | **34,697** | **34,821** |

**DOT-Reported Distribution Pipe Inventories**

**SEE FINDING #5 (PG. 292) FOR MA**

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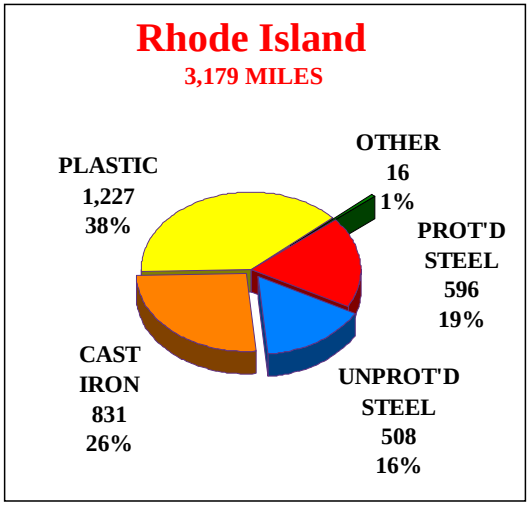
# 2013 SYSTEM INTEGRITY REPORT
## MAIN INVENTORY

### RI

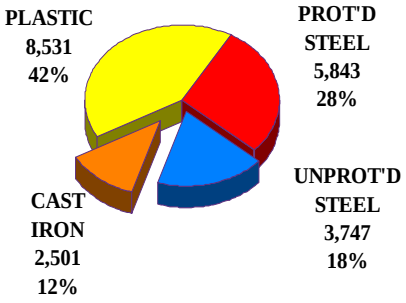


# 2013 SYSTEM INTEGRITY REPORT

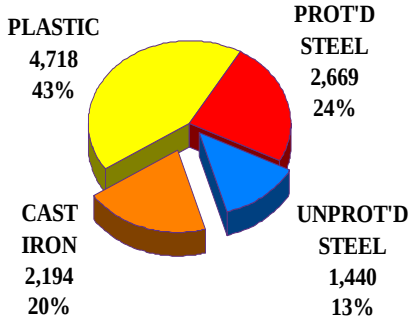
## MAIN INVENTORY

### SUMMARY – All States

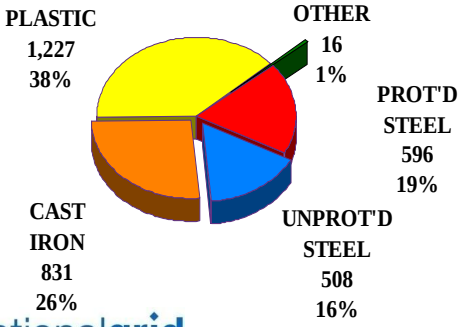
**NY**
**20,621 MILES**



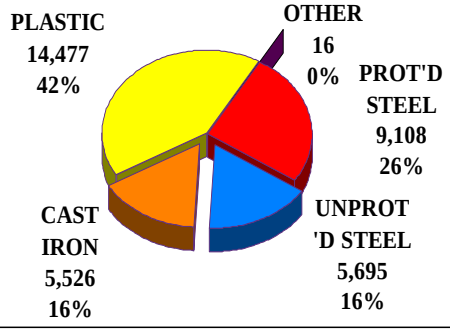

**MA**
**11,021 MILES**




**Rhode Island**
**3,179 MILES**




***National Grid-US***
**34,821 MILES**

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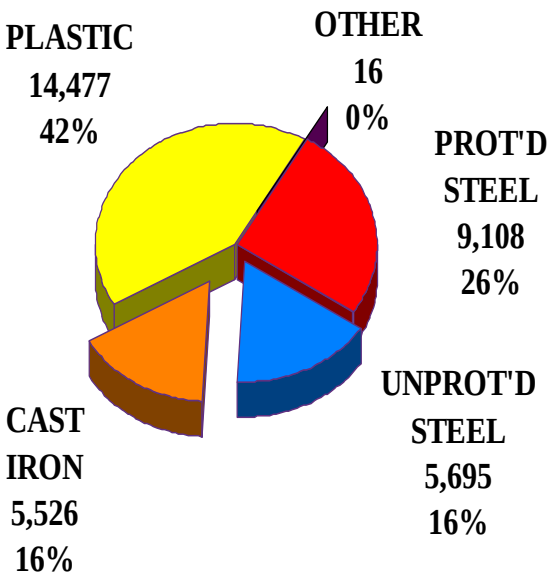
# 2013 SYSTEM INTEGRITY REPORT

## 2013 MAIN INVENTORY

### U.S. COMPARATIVE SUMMARY

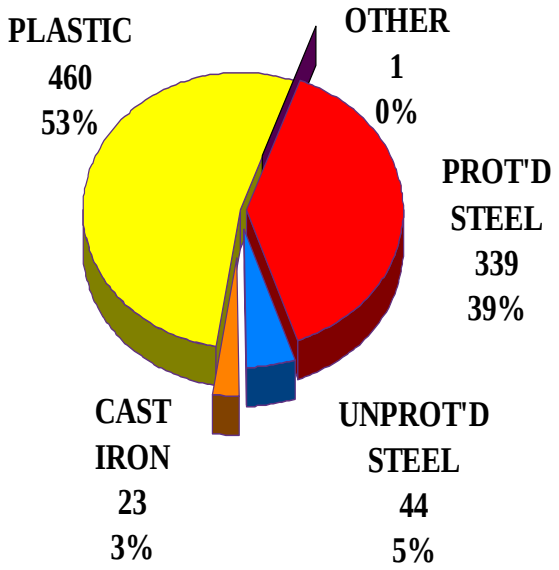
*National Grid - US*

**34,821 MILES**




*2012 PHMSA Average*

**867 MILES**

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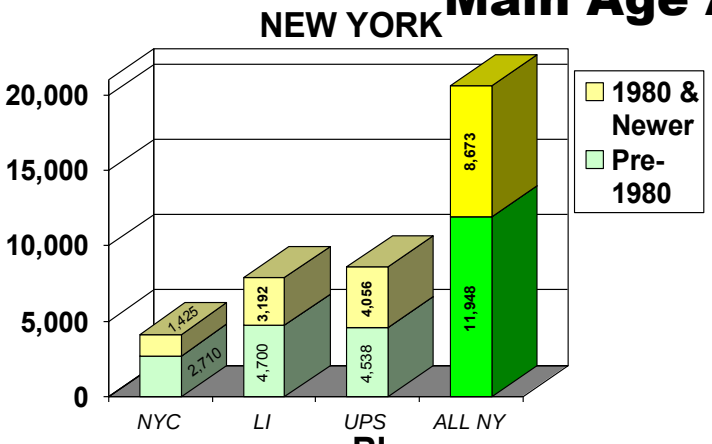
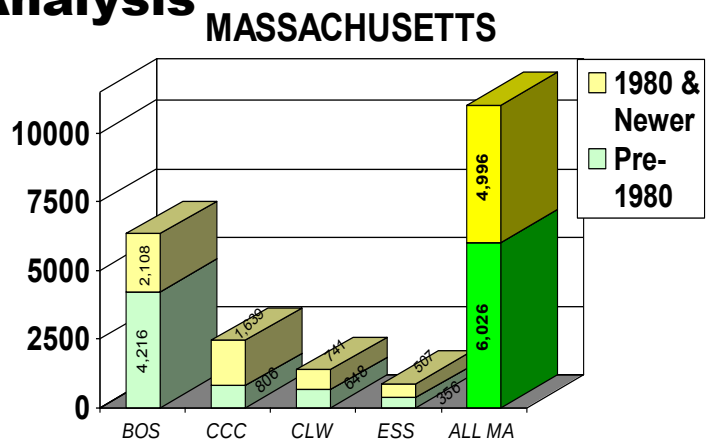
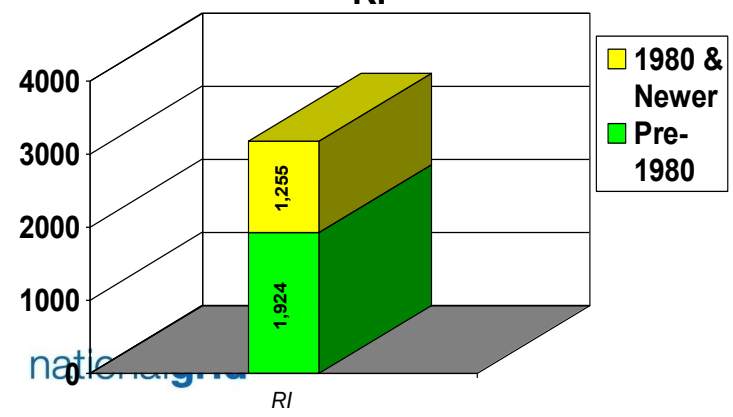
# 2013 SYSTEM INTEGRITY REPORT

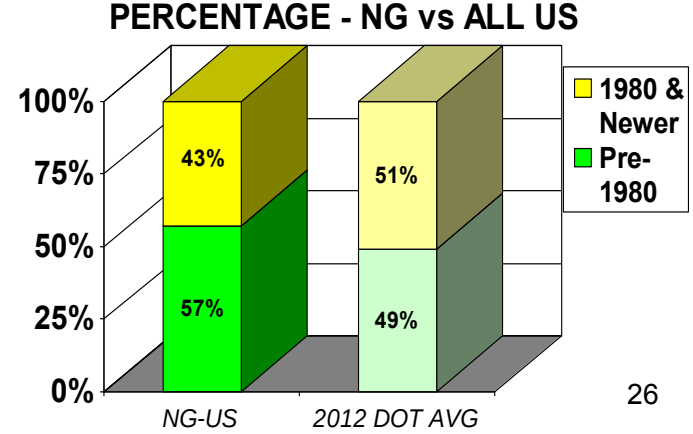
## 2013 MAIN INVENTORY

### Main Age Analysis



# 2013 SYSTEM INTEGRITY REPORT

## AVERAGE DISTRIBUTION MAIN SYSTEM AGE

**ASSUMPTIONS**

1 Quanities of main shown are in miles

2 Estimated average ages are in years

3 Estimated average main ages were calculated using the following assumptions:
a) all pre-1910 pipe was assumed to be installed in 1900
b) all the pipe in each decade was assumed to be installed in the middle of the decade

4 Pre-1940 data for Upstate NY became available from 2009,
and had the effect of aging that system slightly

**IMPORTANT: 2012 Age Estimates Include Significant Data Correction For RI.**

**Availability of pre-1940 pipe ages had the data effect of aging the RI system by several years. While it was not possible to recalculate ages going back to 2004, an estimate of 2011 RI age with corrected data would be 47.08, meaning the RI system actually got younger. For NG-TOTAL, the 2011 would have been 43.95, meaning that the entire system aged less than a month in 2012.**

**SUMMARY**

| AVERAGE DISTRIBUTION MAIN SYSTEM AGE | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 |
|---|---|---|---|---|---|---|---|---|---|---|
| NYC | 56.9 | 56.9 | 56.6 | 56.4 | 56.8 | 56.8 | 56.6 | 55.8 | 55.1 | 54.8 |
| LI | 42.4 | 42.2 | 41.8 | 41.5 | 41.4 | 41.7 | 42.2 | 41.4 | 40.7 | 40.9 |
| UPSTATE | 37.8 | 37.4 | 36.9 | 36.3 | 35.7 | 33.9 | 33.5 | 32.8 | 32.3 | 31.8 |
| ***TOTAL NY*** | ***43.4*** | ***43.1*** | ***42.7*** | ***42.3*** | ***42.1*** | ***41.5*** | ***41.4*** | ***40.7*** | ***40.1*** | ***39.9*** |
| BOSTON | 54.4 | 54.8 | 55.3 | 55.5 | 55.7 | 55.8 | 55.5 | 55.3 | 53.2 | 54.4 |
| ESSEX | 35.1 | 34.5 | 33.9 | 33.2 | 32.4 | 31.6 | 30.9 | 30.0 | 29.8 | 29.5 |
| ***Boston +Essex*** | ***52.1*** | ***52.4*** | ***52.76*** | ***52.84*** | ***52.93*** | ***52.89*** | ***52.51*** | ***52.23*** | ***50.49*** | ***51.42*** |
| COLONIAL-Cape | 28.2 | 28.1 | 28.7 | 28.9 | 28.3 | 27.5 | 27.0 | 26.2 | 25.4 | 24.8 |
| COLONIAL-Lowell | 36.3 | 36.2 | 36.1 | 35.9 | 35.3 | 34.9 | 34.2 | 33.6 | 33.2 | 32.4 |
| ***COLONIAL(Cape+Lowell)*** | ***31.1*** | ***31.0*** | ***31.41*** | ***31.45*** | ***30.87*** | ***30.19*** | ***29.61*** | ***28.92*** | ***28.19*** | ***27.54*** |
| ***TOTAL MA*** | ***44.8*** | ***44.9*** | ***45.3*** | ***45.4*** | ***45.3*** | ***45.0*** | ***44.5*** | ***44.1*** | ***42.9*** | ***43.1*** |
| ***N.E. GAS (RI)*** | ***46.4*** | ***46.7*** | ***43.4*** | ***45.7*** | ***45.5*** | ***45.0*** | ***44.4*** | ***43.8*** | ***43.3*** | ***42.7*** |
| **TOTAL NATIONAL GRID** | **44.12** | **44.04** | **43.61** | **43.60** | **43.43** | **42.91** | **42.67** | **42.06** | **41.27** | **41.20** |

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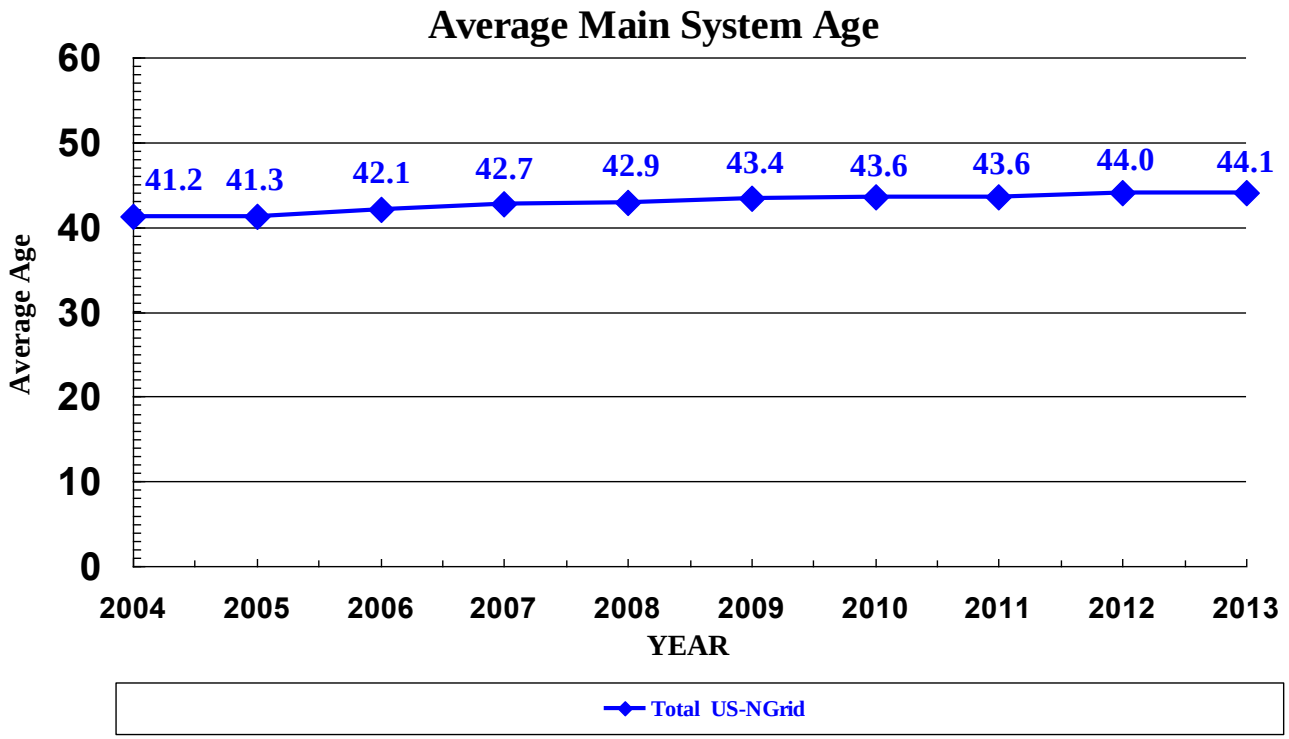
# 2013 SYSTEM INTEGRITY REPORT

## National Grid Gas Distribution System is Aging at a rate of 4.3 months every year.

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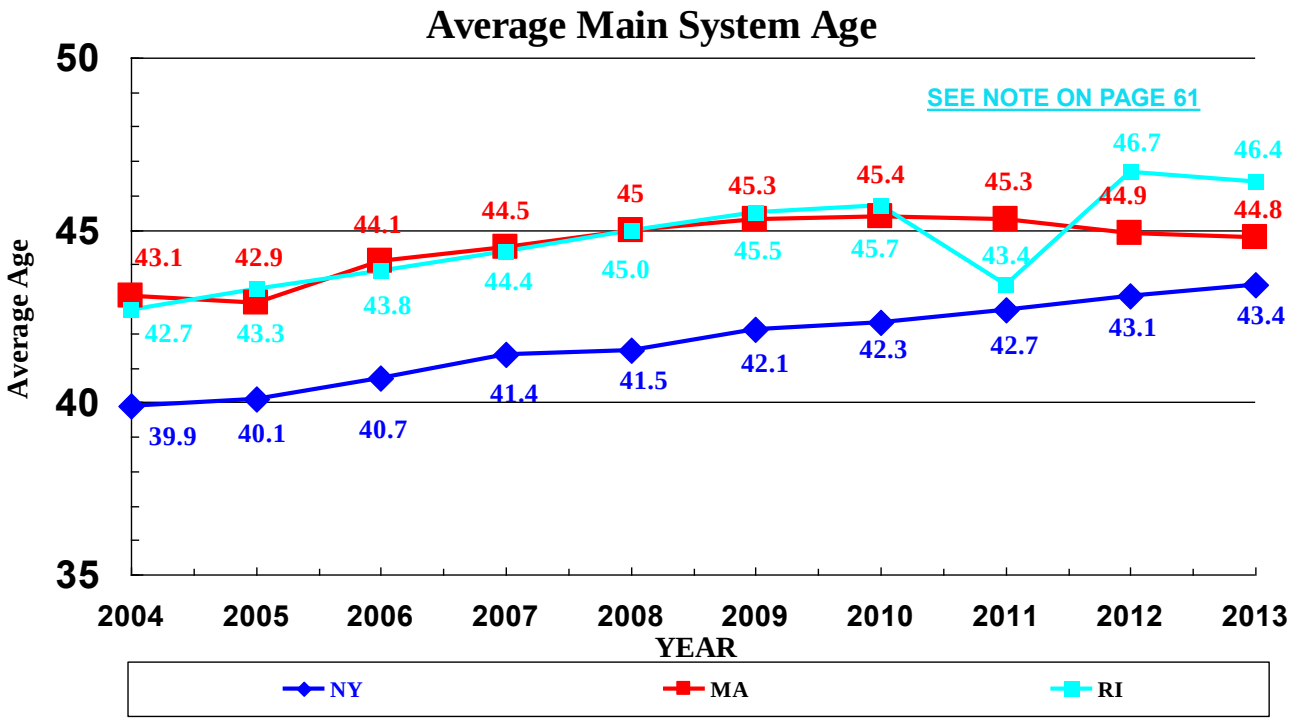
# 2013 SYSTEM INTEGRITY REPORT

## National Grid Gas Distribution System
## Average Age of Main by State

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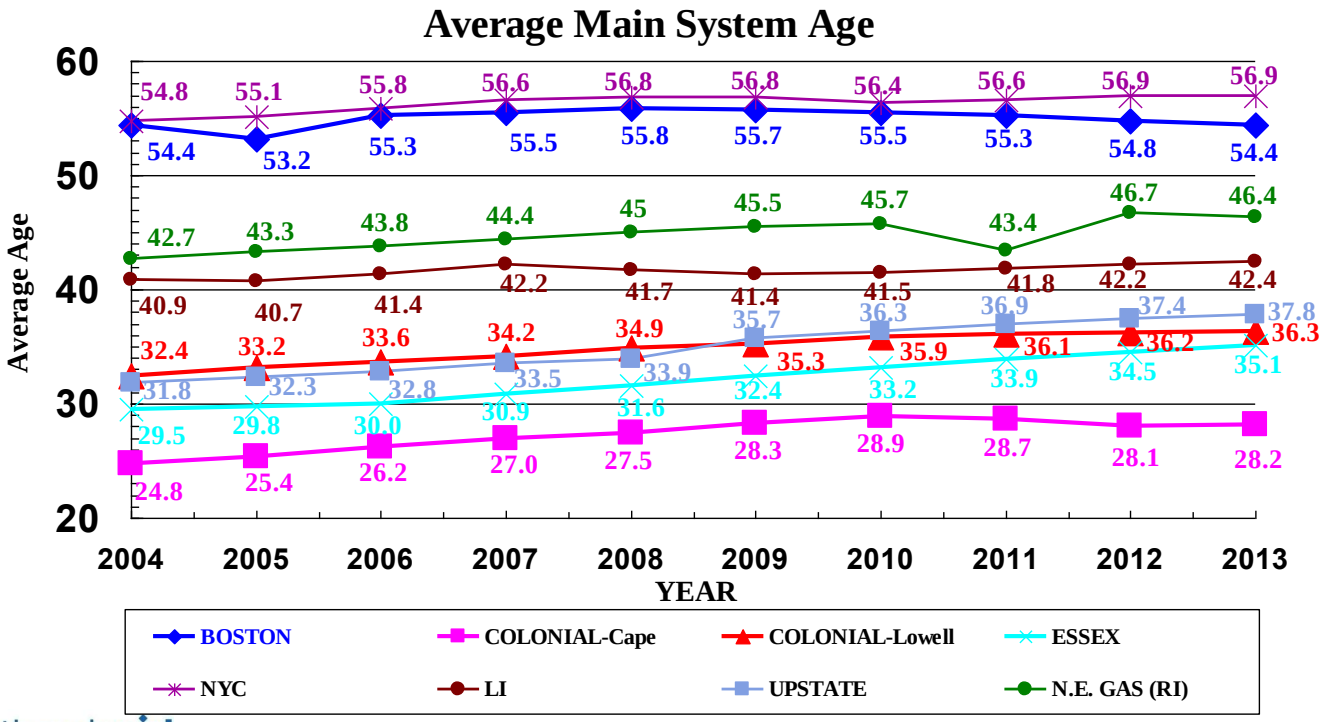
# 2013 SYSTEM INTEGRITY REPORT

## National Grid Gas Distribution System

## Average Age of Main by Legacy NG Company Reflects Expected Northeast Pattern( i.e., old civilization areas and cast iron)

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# 2013 SYSTEM INTEGRITY REPORT

## Cast Iron Pipeline

- The average age of National Grid's pipeline system is strongly influenced by the amount of cast iron pipe.
- Cast iron main, which was primarily installed from the mid-1800's to the 1950's, is a large contributor to the average age in NYC, Boston & RI – the three regions with the oldest pipe.
- Cast iron main failures are not as age dependent as failures in pipe made from other materials, like Steel. Cast iron failures are more influenced by external factors (temperature, external load, undermining, construction methods, etc.)' while Steel failures are primarily due to corrosion which is time progressive.
- Most US distribution companies are much "newer" than National Grid-US and , therefore have little or no cast iron ( the avg. US system contains only 3% CI main, as opposed to NG-US, which is 16% CI)



Source: PHMSA, 2012 mileage data.

# 2013 SYSTEM INTEGRITY REPORT

## Average age of main excluding cast iron.

- In general, CI was installed from the mid-1800's until the 1950's, so it would not be unreasonable to assume (for system aging purposes) that if we excluded pre-1940 pipe, we would get rough estimates of the system ages without CI.

| Region | Average System Age (Years) |
|---|---|
| Boston | 30.26 |
| Cape | 24.92 |
| Lowell | 29.81 |
| Essex | 28.52 |
| **Total MA** | **28.53** |
| **RI** | **35.55** |
| NYC | 30.44 |
| LI | 33.78 |
| Upstate NY | 34.14 |
| **Total NY** | **33.47** |
| | |
| **Total US-NGRID** | **32.19** |

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# 2013 SYSTEM INTEGRITY REPORT

## PERCENT OF LEAK-PRONE PIPE

| | 2013 | | | 2012 | | | 2011 | | | 2010 | | | 2009 | | | 2008 | | | 2007 | | | 2006 | | | 2005 | | | 2004 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Region | Miles leak Prone main | Miles of main | % leak-prone pipe | Miles leak Prone main | Miles of main | % leak-prone pipe | Miles leak Prone main | Miles of main | % leak-prone pipe | Miles leak Prone main | Miles of main | % leak-prone pipe | Miles leak Prone main | Miles of main | % leak-prone pipe | Miles leak Prone main | Miles of main | % leak-prone pipe | Miles leak Prone main | Miles of main | % leak-prone pipe | Miles leak Prone main | Miles of main | % leak-prone pipe | Miles leak Prone main | Miles of main | % leak-prone pipe | Miles leak Prone main | Miles of main | % leak-prone pipe |
| NYC | 1,940 | 4,135 | 47% | 1,977 | 4,128 | 48% | 2,016 | 4,109 | 49% | 2,067 | 4,095 | 50% | 2,110 | 4,069 | 52% | 2,139 | 4,040 | 53% | 2,169 | 4,033 | 54% | 2,180 | 4,033 | 54% | 2,203 | 4,034 | 55% | 2,251 | 4,054 | 56% |
| LI | 3,524 | 7,892 | 45% | 3,582 | 7,843 | 46% | 3,641 | 7,822 | 47% | 3,696 | 7,807 | 47% | 3,767 | 7,814 | 48% | 3,881 | 7,729 | 50% | 3,927 | 7,521 | 52% | 3,946 | 7,510 | 53% | 3,995 | 7,496 | 53% | 4,030 | 7,419 | 54% |
| UPState | 783 | 8,594 | 9% | 823 | 8,552 | 10% | 883 | 8,528 | 10% | 915 | 8,523 | 11% | 953 | 8,507 | 11% | 999 | 8,489 | 12% | 1,075 | 8,508 | 13% | 1,126 | 8,436 | 13% | 1,181 | 8,351 | 14% | 1,258 | 8,275 | 15% |
| NY | 6,247 | 20,621 | 30% | 6,382 | 20,523 | 31% | 6,540 | 20,459 | 32% | 6,678 | 20,425 | 33% | 6,830 | 20,390 | 33% | 7,019 | 20,258 | 35% | 7,171 | 20,062 | 36% | 7,252 | 19,979 | 36% | 7,379 | 19,881 | 37% | 7,539 | 19,748 | 38% |
| BGC | 3,230 | 6,324 | 51% | 3,318 | 6,309 | 53% | 3,426 | 6,292 | 54% | 3,527 | 6,282 | 56% | 3,637 | 6,264 | 58% | 3,735 | 6,247 | 60% | 3,791 | 6,219 | 61% | 3,862 | 6,175 | 63% | 3,453 | 6,373 | 54% | 3,645 | 6,183 | 59% |
| EGC | 103 | 863 | 12% | 107 | 860 | 12% | 110 | 859 | 13% | 114 | 860 | 13% | 118 | 858 | 14% | 125 | 855 | 15% | 126 | 852 | 15% | 150 | 847 | 18% | 154 | 848 | 18% | 157 | 839 | 19% |
| CAPE | 121 | 2,445 | 5% | 143 | 2,440 | 6% | 188 | 2,427 | 8% | 222 | 2,419 | 9% | 241 | 2,409 | 10% | 257 | 2,402 | 11% | 269 | 2,396 | 11% | 295 | 2,382 | 12% | 239 | 2,401 | 10% | 247 | 2,379 | 10% |
| LOWELL | 181 | 1,389 | 13% | 192 | 1,391 | 14% | 185 | 1,390 | 13% | 195 | 1,386 | 14% | 205 | 1,383 | 15% | 217 | 1,380 | 16% | 221 | 1,376 | 16% | 234 | 1,366 | 17% | 211 | 1,354 | 16% | 225 | 1,372 | 16% |
| MA | 3,634 | 11,021 | 33% | 3,759 | 11,000 | 34% | 3,909 | 10,968 | 36% | 4,059 | 10,946 | 37% | 4,201 | 10,915 | 38% | 4,335 | 10,884 | 40% | 4,407 | 10,843 | 41% | 4,541 | 10,769 | 42% | 4,057 | 10,976 | 37% | 4,274 | 10,773 | 40% |
| RI | 1,339 | 3,179 | 42% | 1,393 | 3,174 | 44% | 1,455 | 3,163 | 46% | 1,470 | 3,132 | 47% | 1,559 | 3,129 | 50% | 1,561 | 3,124 | 50% | 1,580 | 3,102 | 51% | 1,620 | 3,095 | 52% | 1,563 | 3,092 | 51% | 1,576 | 3,070 | 51% |
| US-NGrid | 11,220 | 34,821 | 32% | 11,535 | 34,697 | 33% | 11,903 | 34,591 | 34% | 12,208 | 34,503 | 35% | 12,589 | 34,433 | 37% | 12,915 | 34,266 | 38% | 13,158 | 34,007 | 39% | 13,413 | 33,843 | 40% | 12,998 | 33,949 | 38% | 13,389 | 33,591 | 40% |

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Note: Leak-Prone Pipe= Unprotected Steel (BS+CS) + CI/WI + Other

# 2013 SYSTEM INTEGRITY REPORT
# NATIONAL GRID MAIN REPLACEMENT

| Rate Case Supported "Leak-Prone" Main Replacement Levels | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Region | 2013 Total Main (Miles) | 2013 Leak Prone Main (Miles) | Leaks/Miles of Total Main (Repair rate) | Leaks/Miles of Leak Prone Main (Repair rate) | [5]2013 Annual "Planned" Replacement (Miles) | Planned Replacement % of Leak prone system | [5]2013 Annual "Actual" Replacement (Miles) | Actual Replacement % of Leak prone system | [5]2014 Annual "Planned" Replacement (Miles) | Years to LPP Main Elimination based on "Current" annual plan |
| NYC | 4,135 | 1,940 | 0.48 | 1.02 | 41.0 | 2.1% | 41.9 | 2.2% | 43.0 | 45 |
| LI | 7,892 | 3,524 | 0.11 | 0.23 | 57.5 | 1.6% | 53.9 | 1.5% | 62.0 | 57 |
| Upstate NY | 8,594 | 783 | 0.06 | 0.65 | 39.6 | 5.1% | 40.4 | 5.2% | 42.6 | 18 |
| RI | 3,179 | 1,339 | 0.34 | 0.79 | 55.5 | 4.1% | 44.0 | 3.3% | 70.4 | 19 |
| BGC & EGC | 7,187 | 3,333 | 0.59 | 1.25 | 111.5 | 3.3% | 95.8 | 2.9% | 122.0 | 27 |
| CCC & CLW | 3,835 | 301 | 0.06 | 0.77 | 57.8 | 19.2% | 42.6 | 14.1% | 46.3 | 7 |

**Note:**

1. Leaks per mile of total main excludes Excavation leaks.
2. Leaks per mile of Leak-Prone main (LPP) excludes Excavation leaks and Plastic leaks. (Also, all non-Excavation Steel leaks are assumed to have occurred on Unprotected Steel)
3. Leak-Prone Pipe = Unprotected steel (Bare & Coated) + CI/WI + Other.
4. Miles of Leak-Prone main replaced includes all Proactive programs ( Main Replacement program & System Reinforcement) and all Reactive programs (Public Works, Water Intrusion & Leak/reactive).
5. Annual planned and actual replacement miles are CY.
6. Data source is" 2013 & 2014 US Gas Leak Prone Pipe Replacement Programs" report from 03.31.2014

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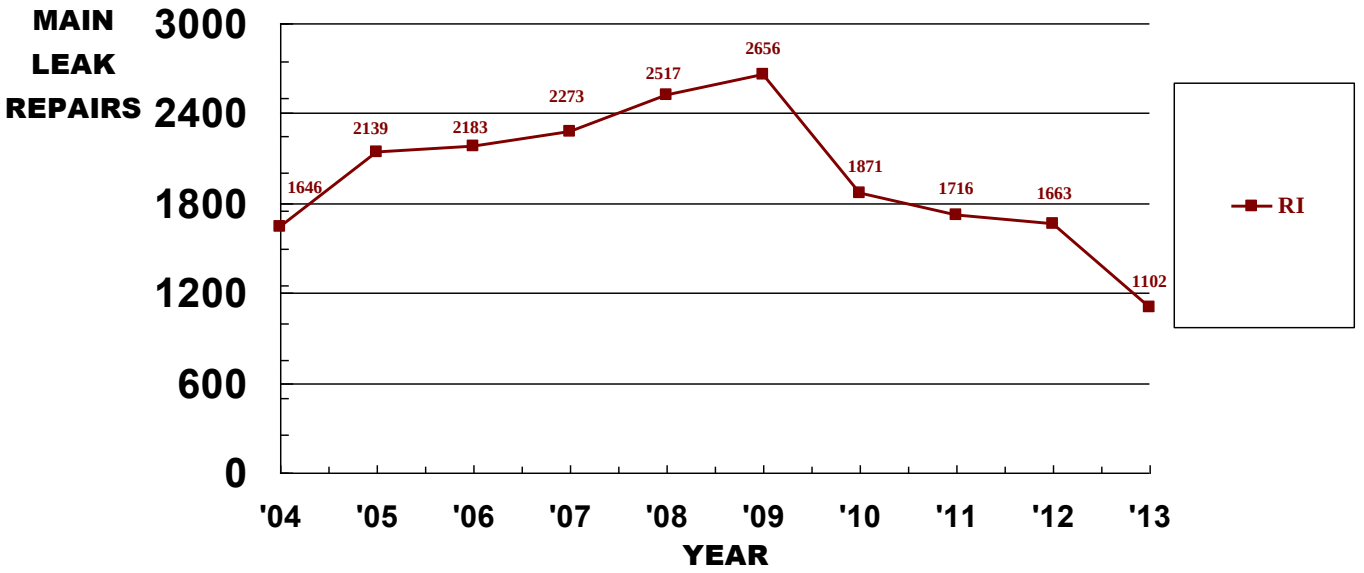
# 2013 SYSTEM INTEGRITY REPORT

# MAIN LEAK REPAIR ANALYSIS

# 2013 SYSTEM INTEGRITY REPORT
# TOTAL MAIN LEAK REPAIRS

**INCLUDING Damages**

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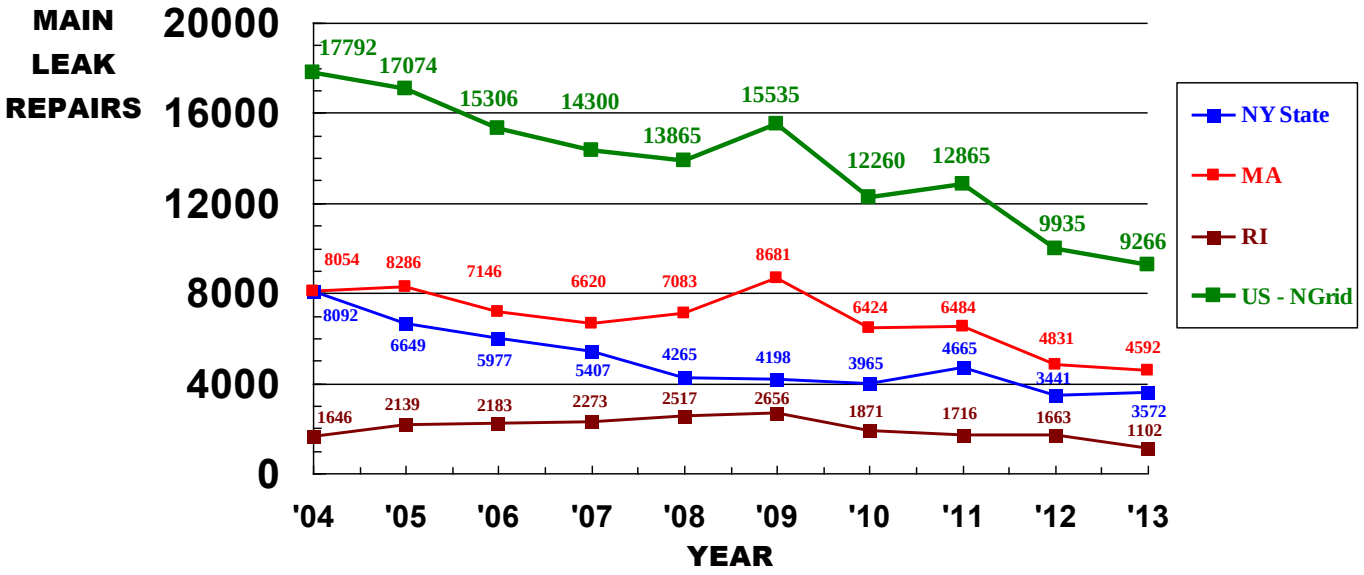
**NOTE: Cast Iron Leaks Count Total Individual Joint Repairs**

# 2013 SYSTEM INTEGRITY REPORT
# TOTAL MAIN LEAK REPAIRS

**INCLUDING Damages**

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**NOTE: Cast Iron Leaks Count Total Individual Joint Repairs**

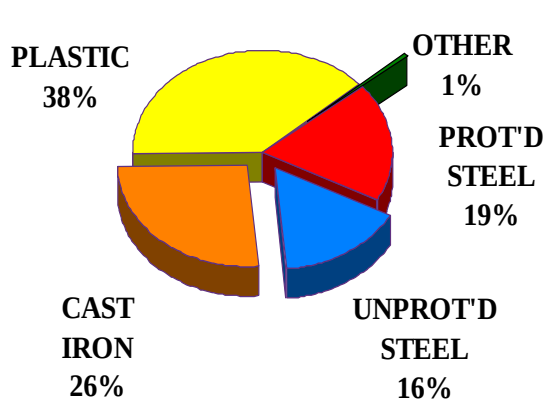
# 2013 SYSTEM INTEGRITY REPORT

RI

## 2013 TOTAL MAIN LEAKS REPAIRS

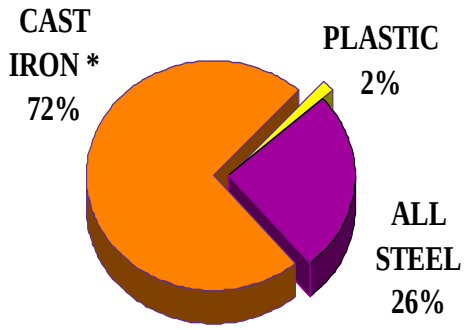
### TOTAL MAIN INVENTORY
*BY MATERIAL*

3,179 MILES




### TOTAL MAIN LEAK REPAIRS
*BY MATERIAL*

1,102 LEAKS (including damages)




NOTE: (*) CI Leaks include Other material Leaks.
Leak Count Totals Individual Repairs.

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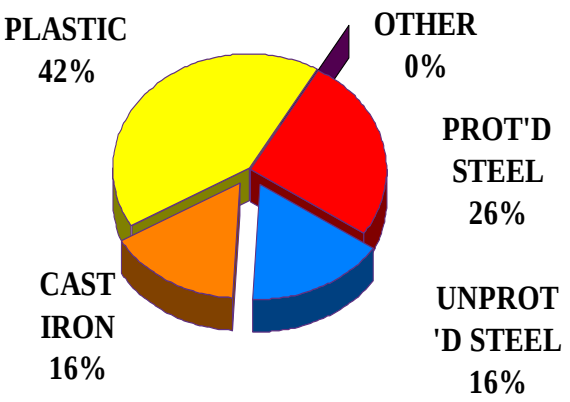
# 2013 SYSTEM INTEGRITY REPORT

## US-NGrid

## 2013 TOTAL MAIN LEAKS REPAIRS

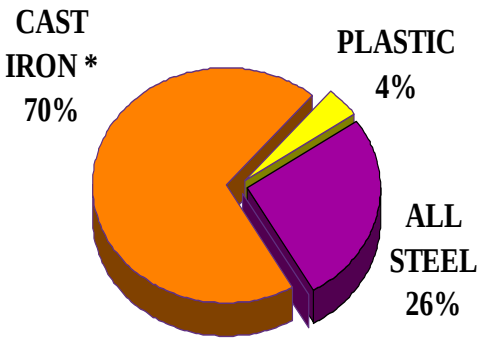
### TOTAL MAIN INVENTORY
*BY MATERIAL*

34,821 MILES




### TOTAL MAIN LEAK REPAIRS
*BY MATERIAL*

9,266 LEAKS (including damages)




NOTE: (*) CI Leaks include Other material Leaks.
Leak Count Totals Individual Repairs

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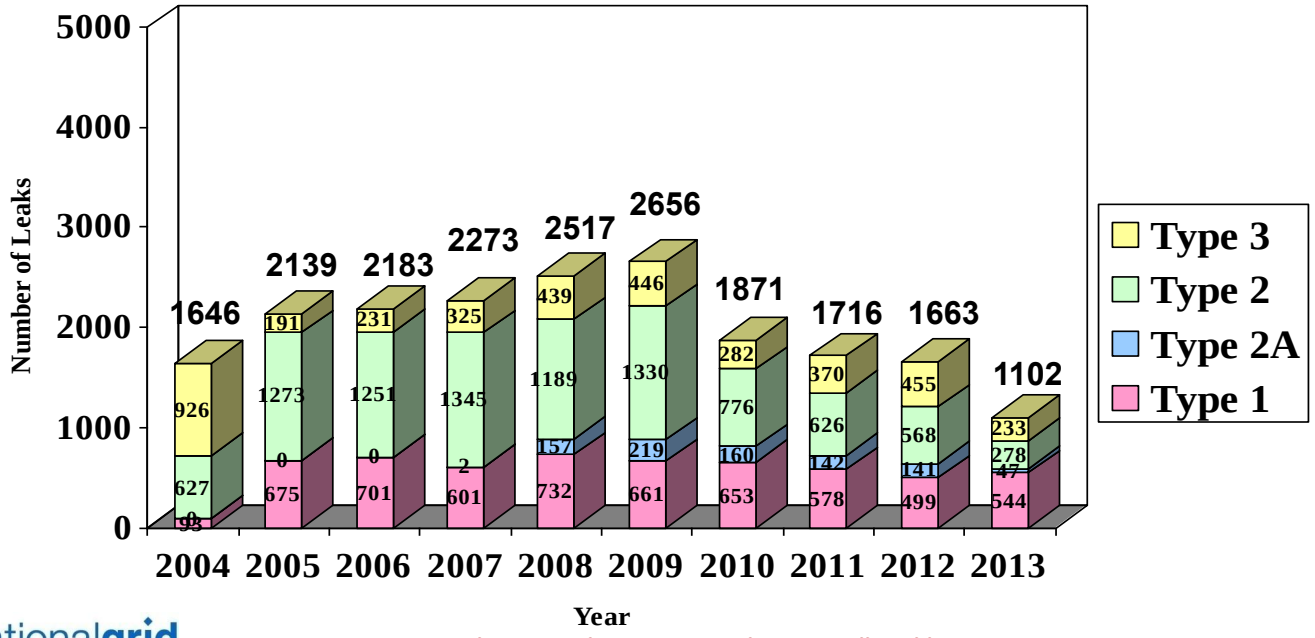
# 2013 SYSTEM INTEGRITY REPORT

## LEAKS REPAIRED

## RI By REPAIRED Type MAIN

**(Including damages)**




Note: 2004 RI Leaks Repaired Data is incomplete in SmallWorld.

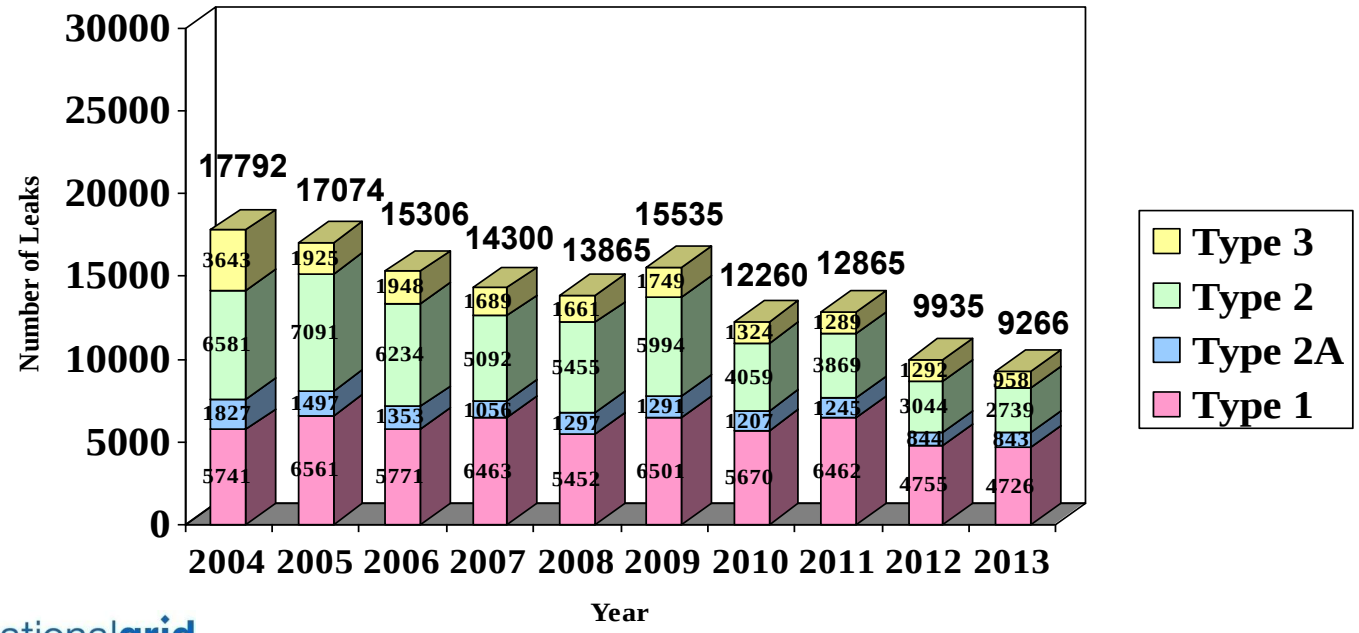
# 2013 SYSTEM INTEGRITY REPORT

US NGrid

## LEAKS REPAIRED By REPAIRED Type

MAIN

(Including damages)

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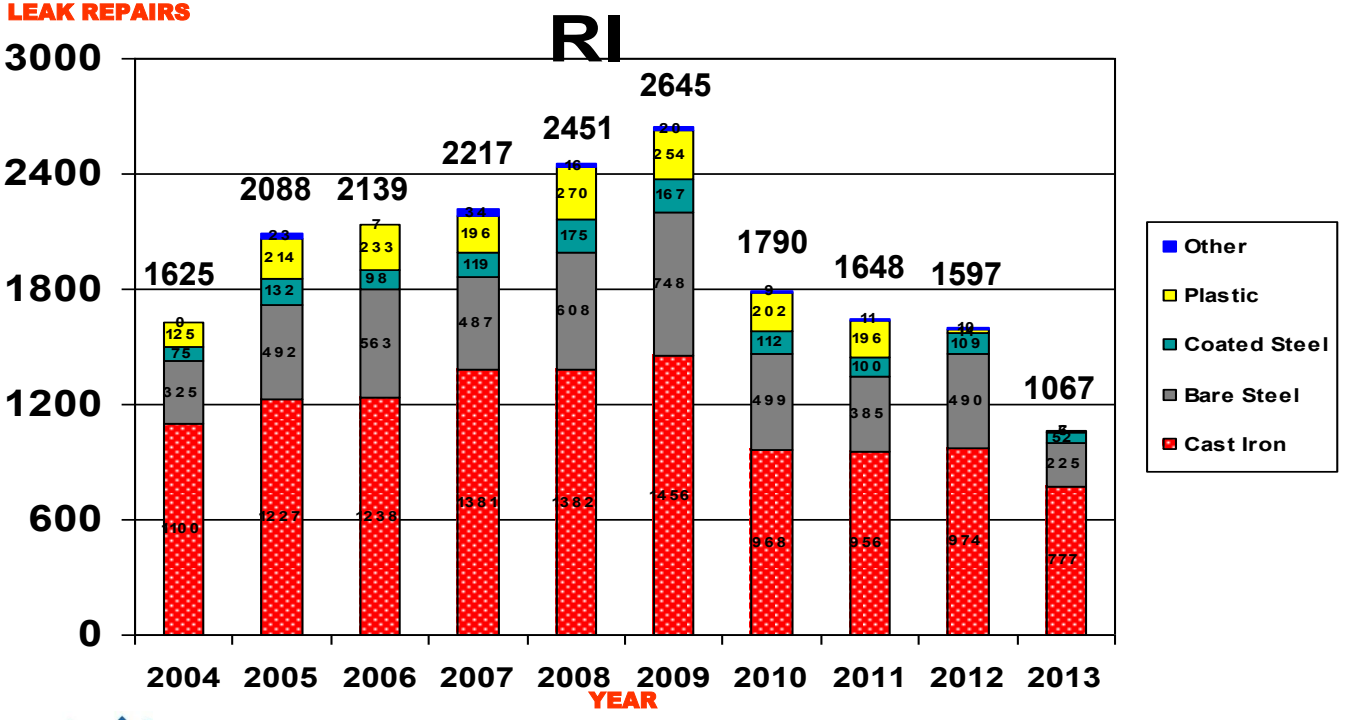
# 2013 SYSTEM INTEGRITY REPORT

## 2004 -2013 MAIN LEAK REPAIRS

### All Main Leak Repairs by Material
### (Excluding damages)

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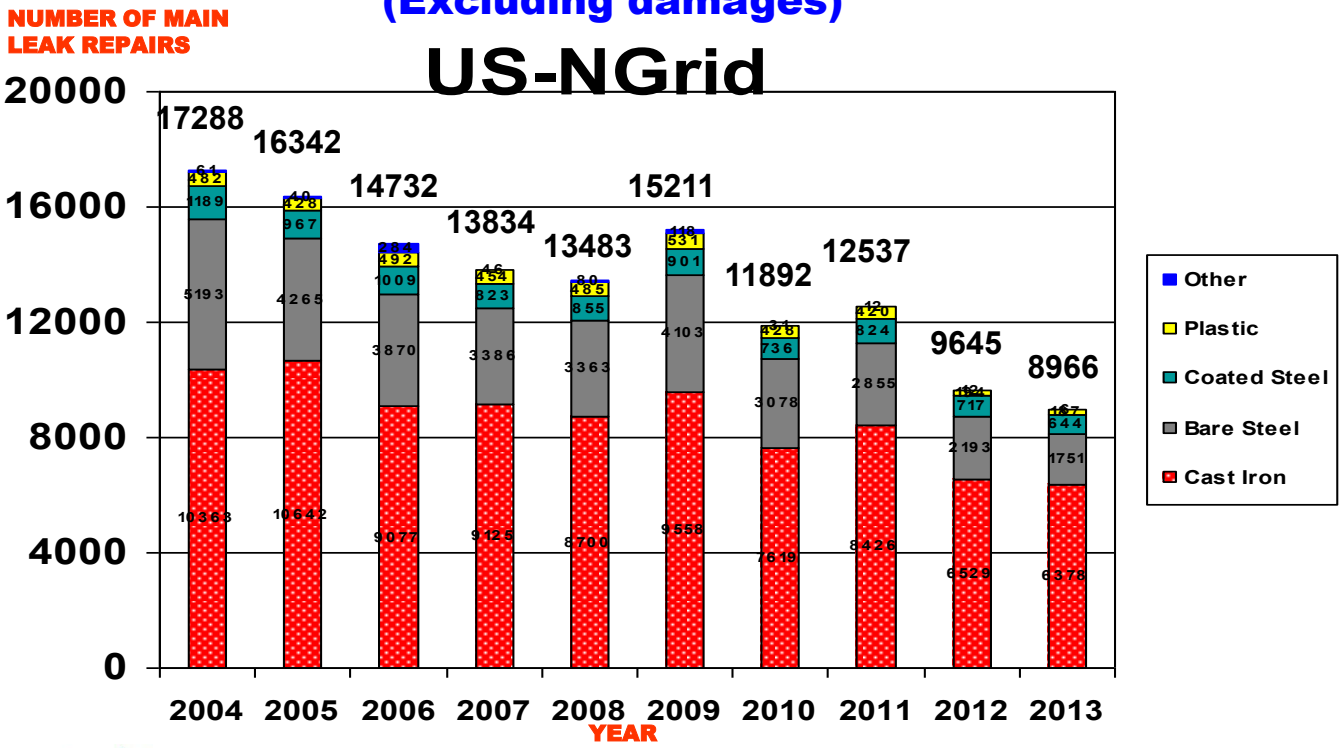
# 2013 SYSTEM INTEGRITY REPORT

## 2004 -2013 MAIN LEAK REPAIRS

### All Main Leak Repairs by Material
### (Excluding damages)

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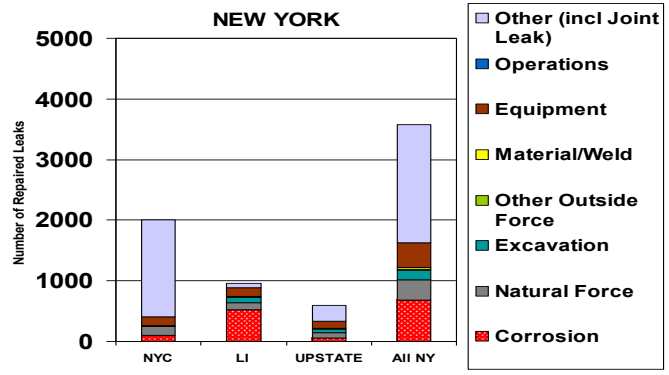
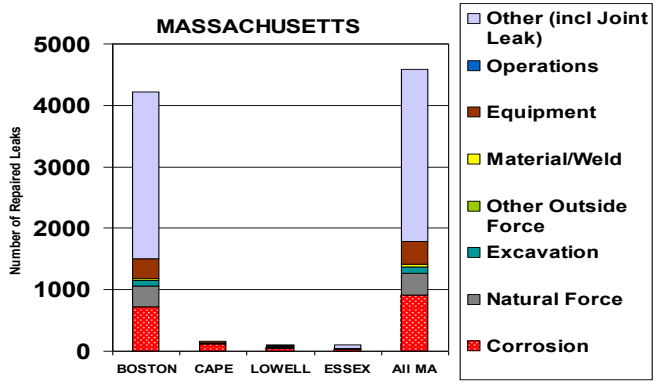
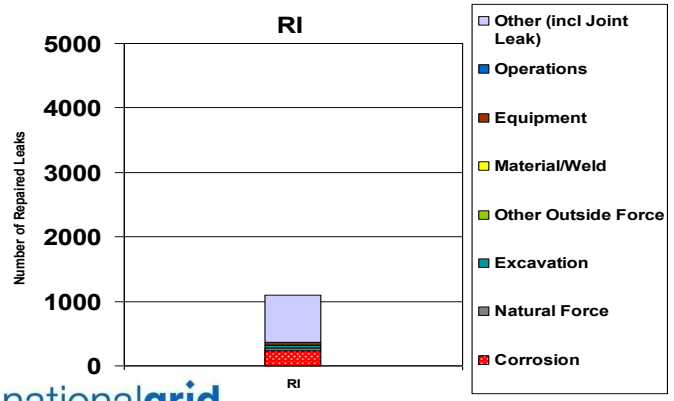
# 2013 SYSTEM INTEGRITY REPORT

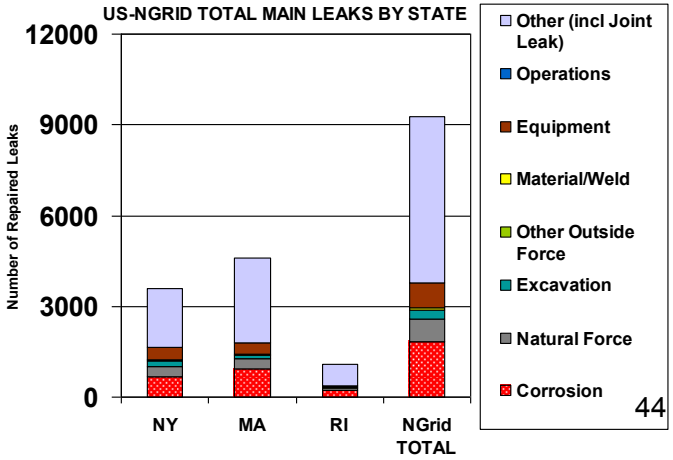
## 2013 MAIN LEAK REPAIRS

### All Main Leak Repairs (including damages)

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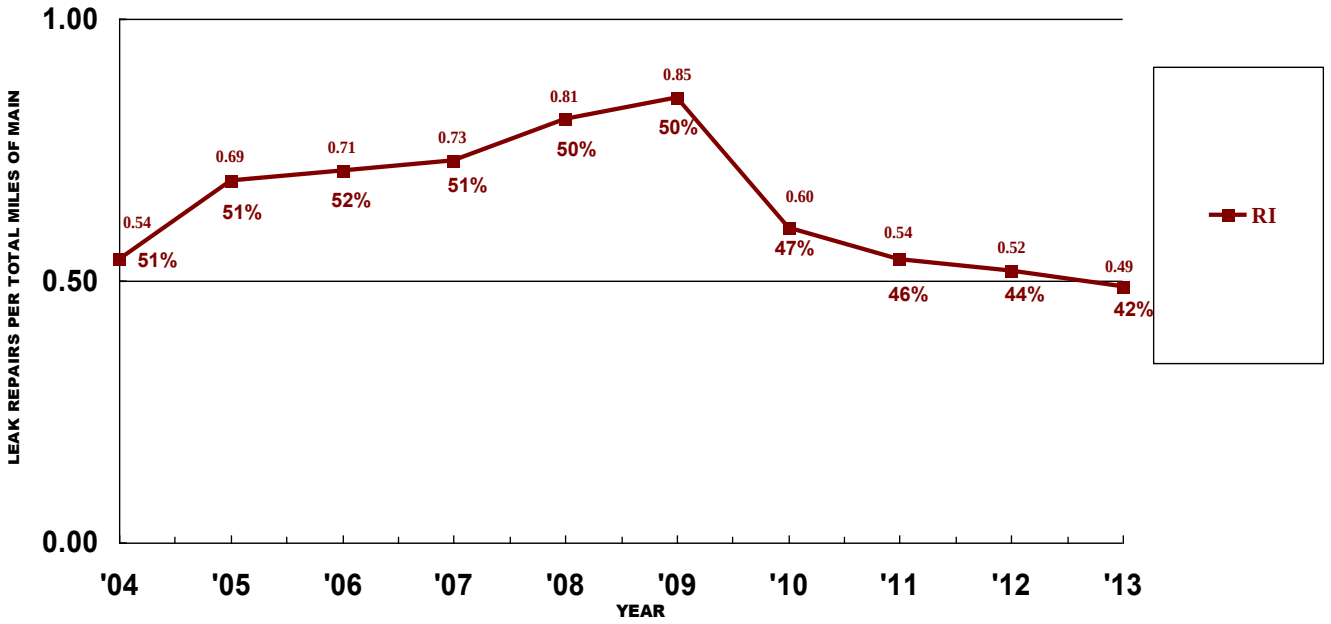
# 2013 SYSTEM INTEGRITY REPORT
# TOTAL MAIN LEAK "RATES"

## INCLUDING Damages

**PERCENTAGES SHOWN ARE PERCENT OF LEAK-PRONE PIPE**

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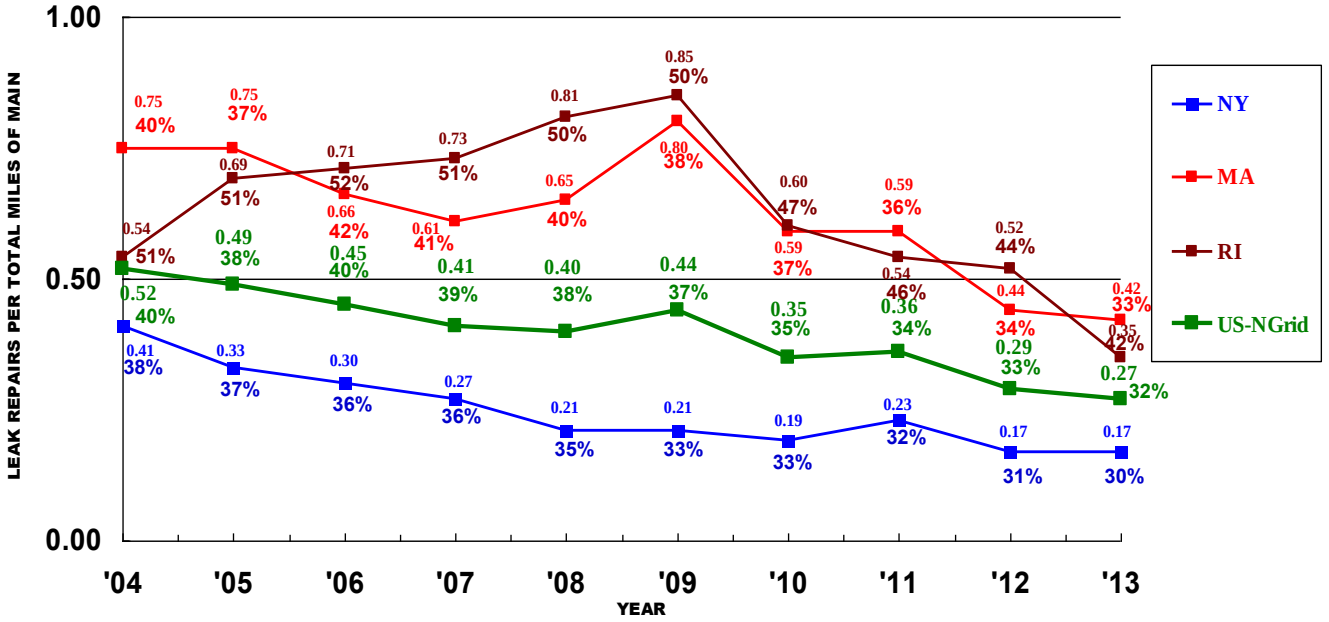
COUNTING EACH INDIVIDUAL REPAIR AS A LEAK

# 2013 SYSTEM INTEGRITY REPORT
# TOTAL MAIN LEAK "RATES"

## INCLUDING Damages

**PERCENTAGES SHOWN ARE PERCENT OF LEAK-PRONE PIPE**

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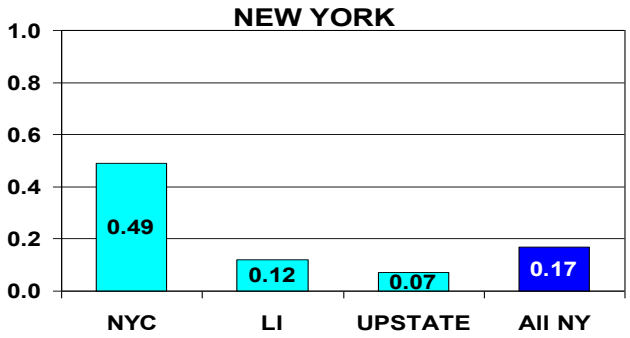
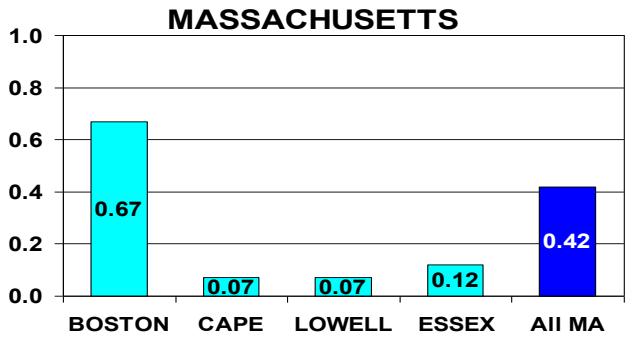
COUNTING EACH INDIVIDUAL REPAIR AS A LEAK

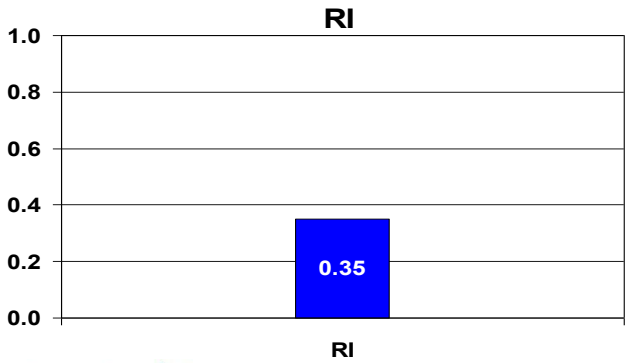
# 2013 SYSTEM INTEGRITY REPORT

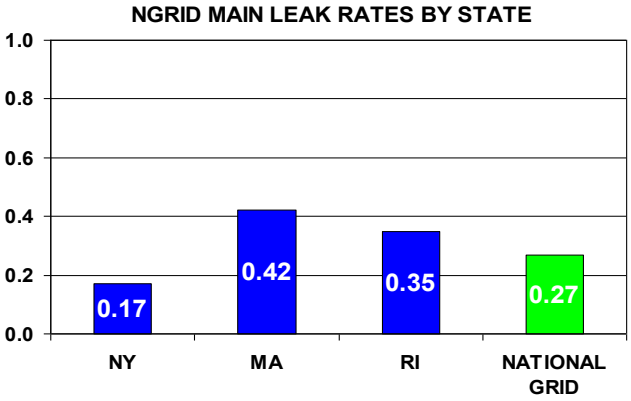
## 2013 MAIN LEAK "RATES"

### Total Main Leak Repairs (incl. damages) / Mile of Total Main

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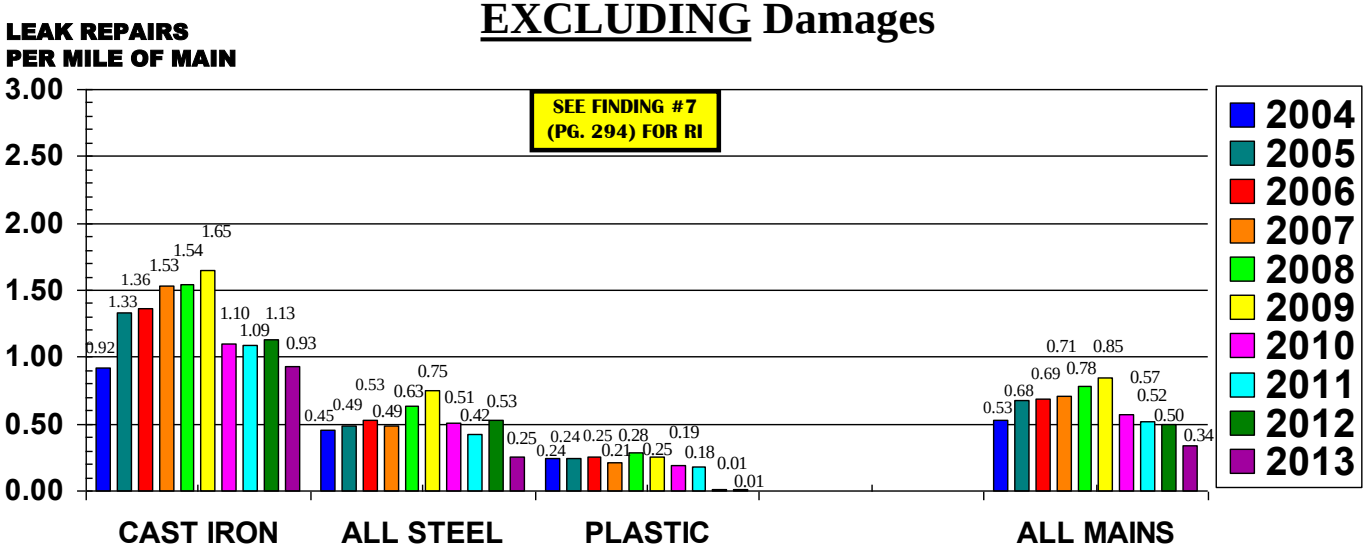
# 2013 SYSTEM INTEGRITY REPORT

RI

## MAIN LEAK "RATES"

### *COMPARISON BY MATERIAL*

**EXCLUDING Damages**




**MATERIAL**

COUNTING EACH INDIVIDUAL REPAIR AS A LEAK

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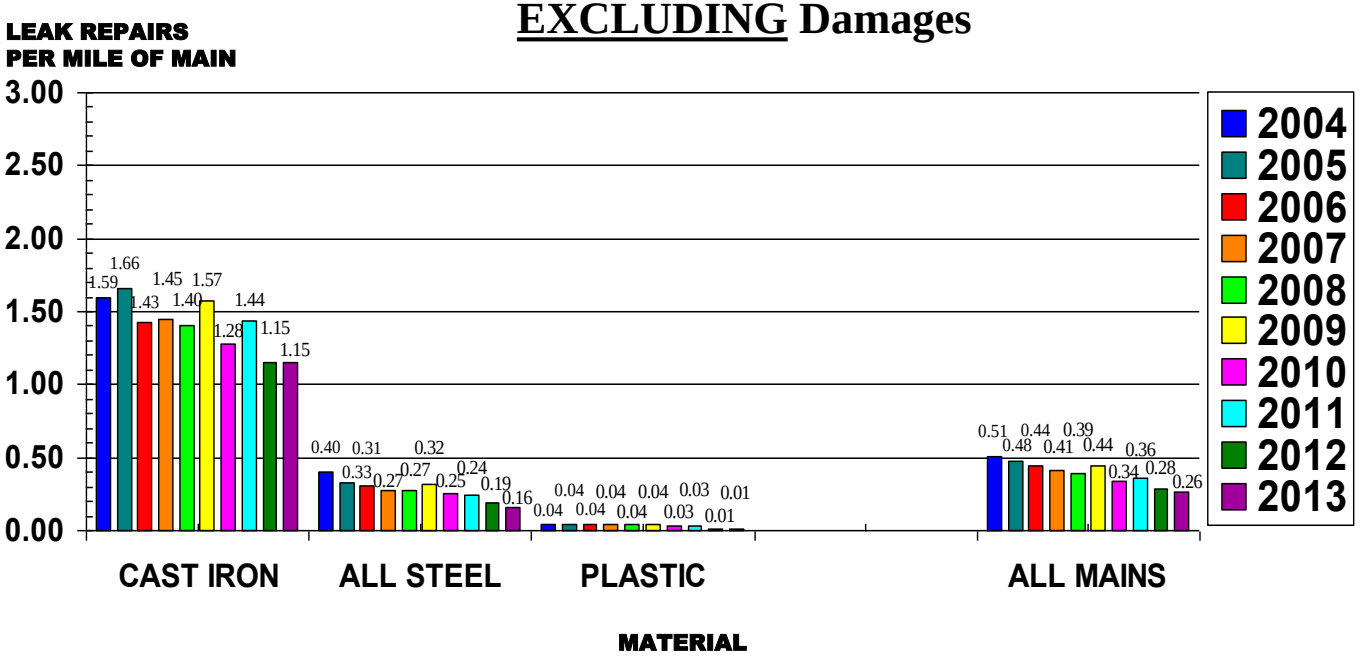
# 2013 SYSTEM INTEGRITY REPORT

## US-NGrid

## MAIN LEAK "RATES"

### *COMPARISON BY MATERIAL*

**EXCLUDING Damages**




**COUNTING EACH INDIVIDUAL REPAIR AS A LEAK**

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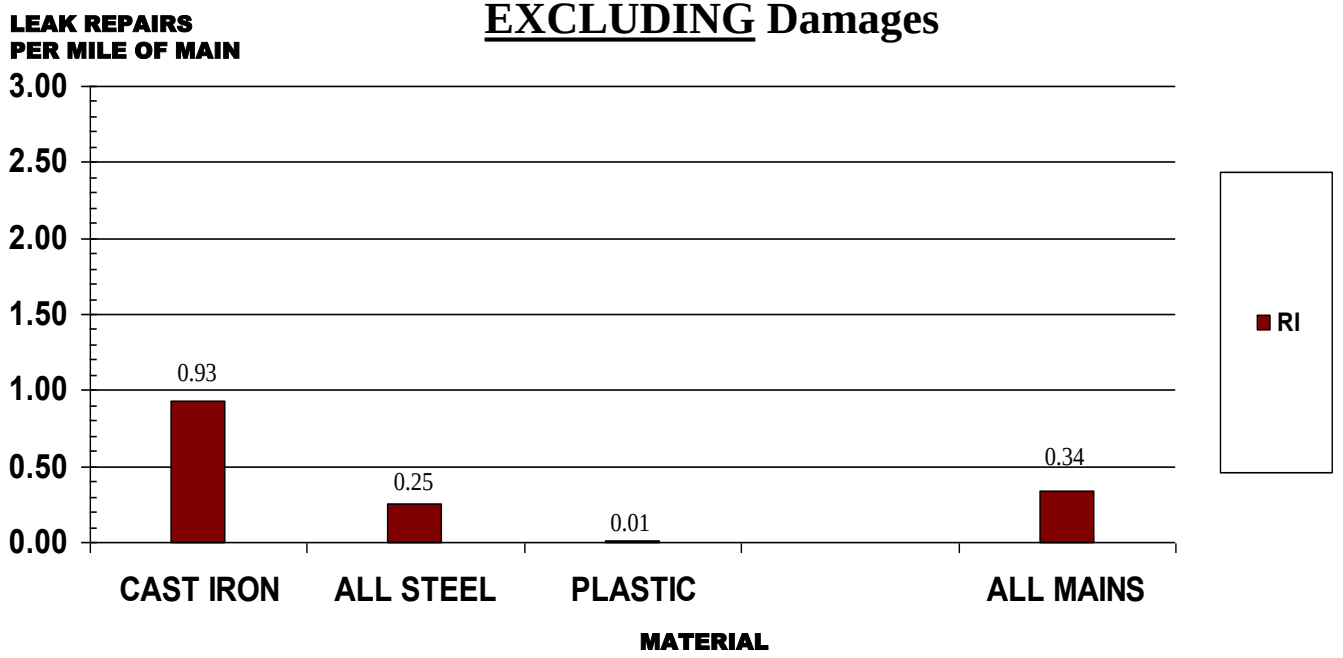
# 2013 SYSTEM INTEGRITY REPORT

## 2013 MAIN LEAK "RATES"

### "RI" COMPARISON BY MATERIAL




COUNTING EACH INDIVIDUAL REPAIR AS A LEAK

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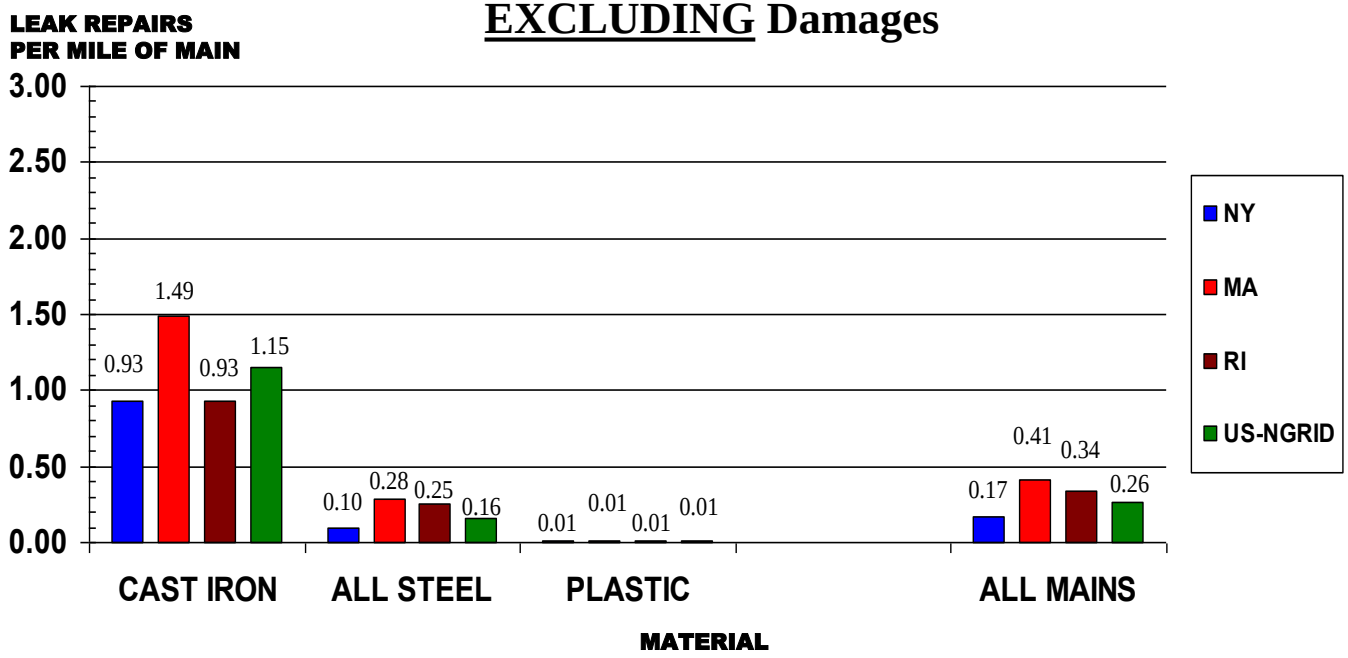
# 2013 SYSTEM INTEGRITY REPORT

## 2013 MAIN LEAK "RATES"

## "ALL REGION" COMPARISON BY MATERIAL

**EXCLUDING Damages**




COUNTING EACH INDIVIDUAL REPAIR AS A LEAK

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# 2013 SYSTEM INTEGRITY REPORT

## 2013 DETAILS OF MAIN LEAK REPAIRS

# 2013 SYSTEM INTEGRITY REPORT

RI

## 2013 MAIN LEAK REPAIRS

### MATERIAL-CAUSE MATRIX

| | CORROSION | MATL/WELD | NAT FORCE | OTH OS FRC | EQUIPMENT | OPERATIONS | CI JT/OTHER | DAMAGES | ALL CAUSES |
|---|---|---|---|---|---|---|---|---|---|
| CAST IRON | 90 | 1 | 50 | 0 | 20 | 0 | 616 | 19 | **796** |
| STEEL | 137 | 0 | 4 | 1 | 25 | 0 | 110 | 5 | **282** |
| *BARE* | *123* | *0* | *4* | *1* | *13* | *0* | *84* | *4* | **229** |
| *COATED* | *14* | *0* | *0* | *0* | *12* | *0* | *26* | *1* | **53** |
| PLASTIC | 0 | 2 | 0 | 0 | 4 | 0 | 1 | 11 | **18** |
| OTHER | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | **6** |
| ALL MAINS | **228** | **3** | **54** | **1** | **49** | **0** | **732** | **35** | **1,102** |

COUNTING EACH INDIVIDUAL REPAIR AS A LEAK

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# 2013 SYSTEM INTEGRITY REPORT

## US-NGrid

## 2013 MAIN LEAK REPAIRS

### MATERIAL-CAUSE MATRIX

| | CORROSION | MATL/WELD | NAT FORCE | OTH OS FRC | EQUIPMENT | OPERATIONS | CI JT/OTHER | DAMAGES | ALL CAUSES |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| CAST IRON | 159 | 5 | 707 | 4 | 221 | 0 | 5,282 | 57 | **6,435** |
| STEEL | 1,671 | 19 | 31 | 9 | 491 | 1 | 173 | 60 | **2,455** |
| *BARE* | *1,309* | *8* | *22* | *4* | *287* | *0* | *121* | *41* | **1,792** |
| *COATED* | *362* | *11* | *9* | *5* | *204* | *1* | *52* | *19* | **663** |
| PLASTIC | 0 | 45 | 5 | 5 | 117 | 1 | 14 | 183 | **370** |
| OTHER | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | **6** |
| | | | | | | | | | |
| ALL MAINS | 1,831 | 69 | 743 | 18 | 829 | 2 | 5,474 | 300 | **9,266** |

COUNTING EACH INDIVIDUAL REPAIR AS A LEAK

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# 2013 SYSTEM INTEGRITY REPORT

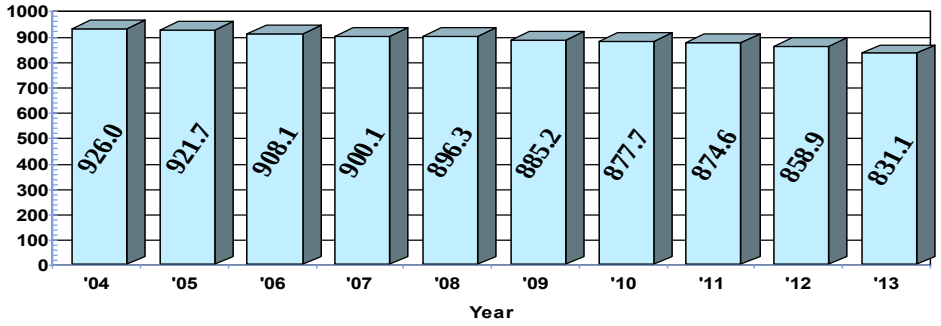
## A CLOSER LOOK AT CAST IRON MAINS

# 2013 SYSTEM INTEGRITY REPORT

RI

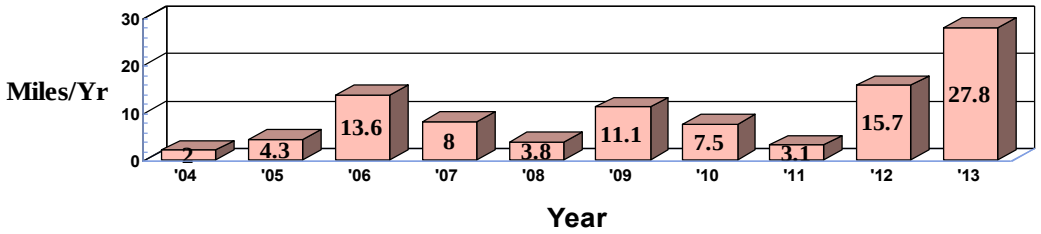
## CAST IRON MAIN INVENTORY

DOT-Reported Pipe Inventories




## CAST IRON ATTRITION RATE

***Avg 10-Yr Attrition Rate: 9.69 Miles/Year ( 1.11%)***

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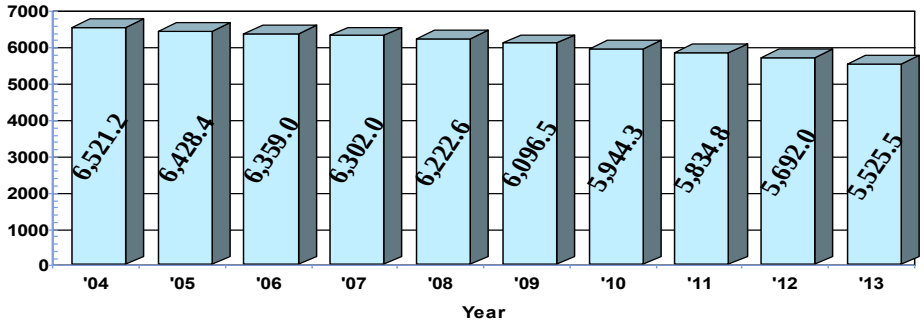
# 2013 SYSTEM INTEGRITY REPORT

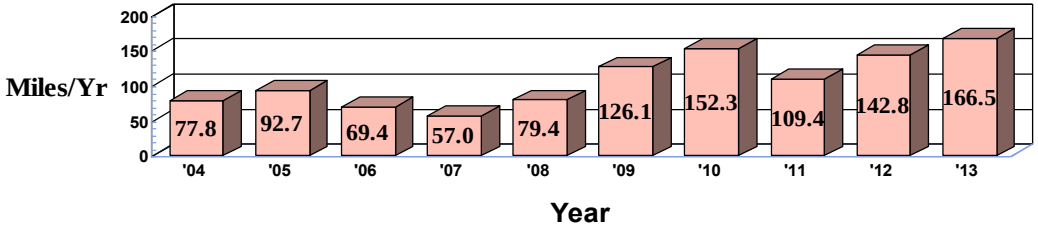
## US-NGrid CAST IRON MAIN INVENTORY

DOT-Reported Pipe Inventories




## CAST IRON ATTRITION RATE

***Avg 10-Yr Attrition Rate: 107.35 Miles/Year ( 1.79%)***

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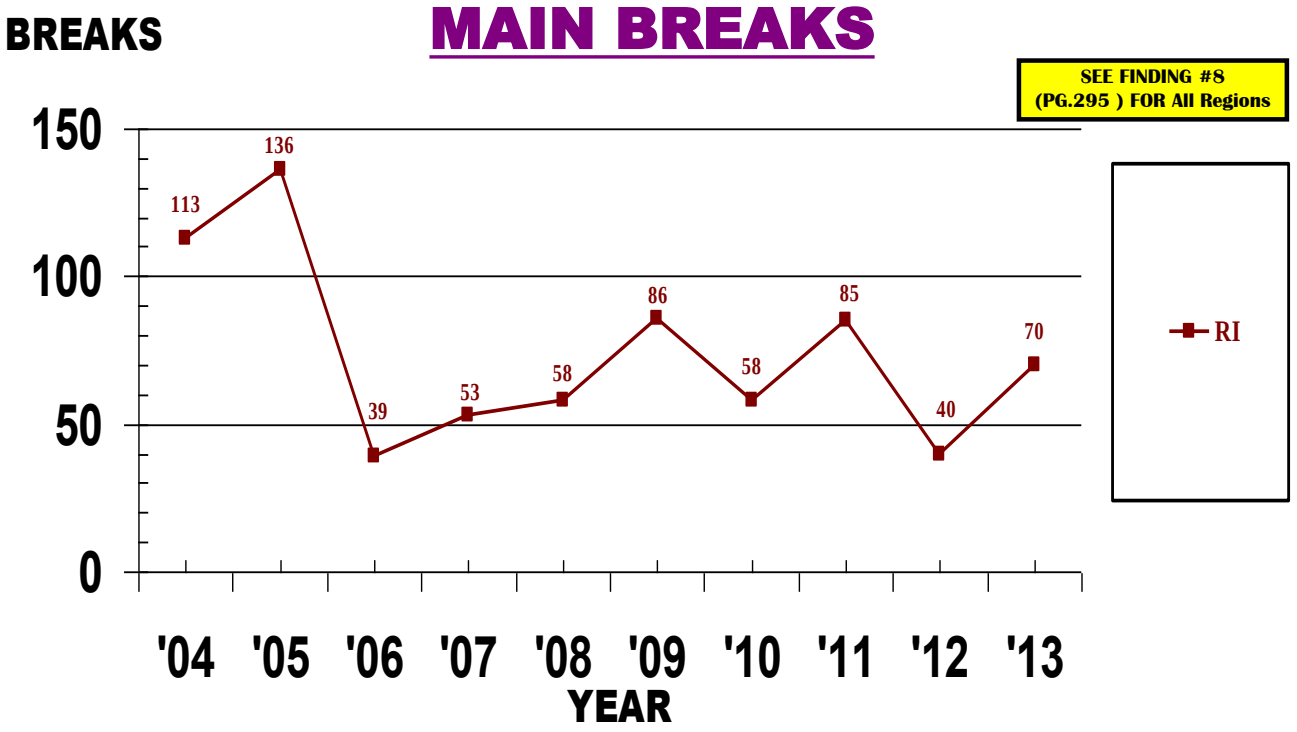
# 2013 SYSTEM INTEGRITY REPORT

## TOTAL CAST IRON MAIN BREAKS

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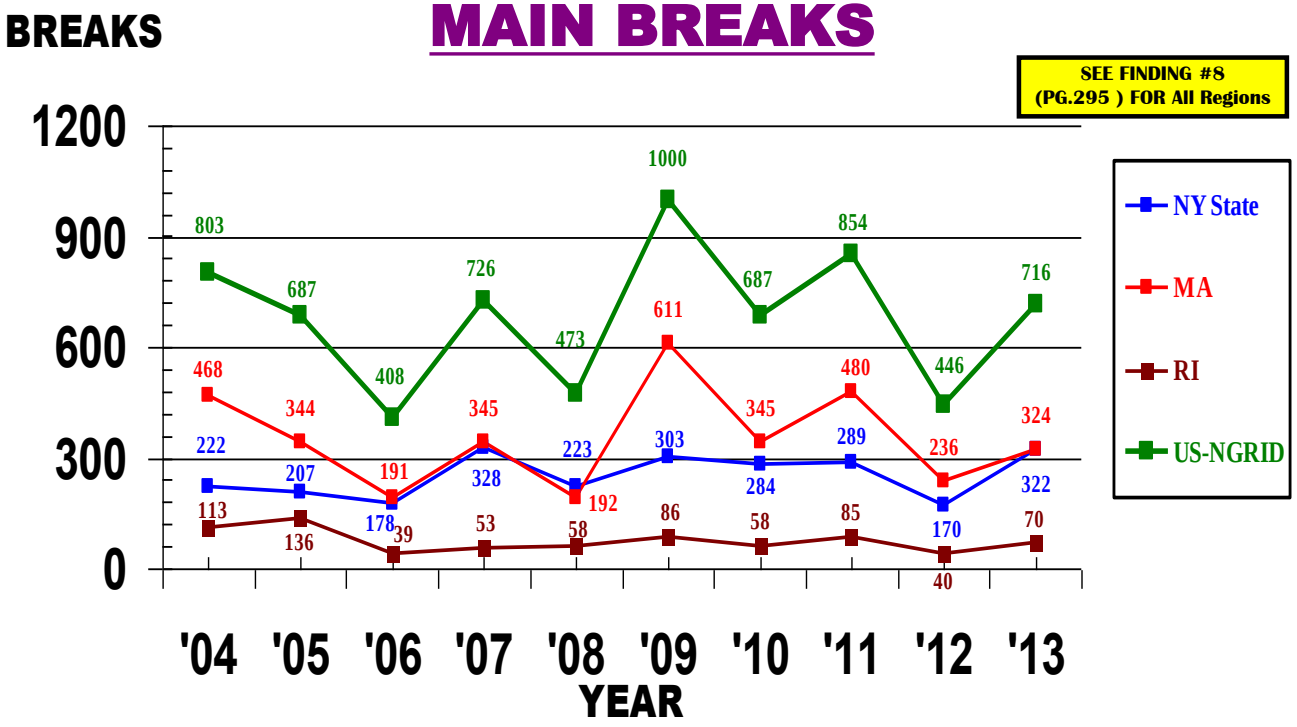
# 2013 SYSTEM INTEGRITY REPORT

## TOTAL CAST IRON MAIN BREAKS

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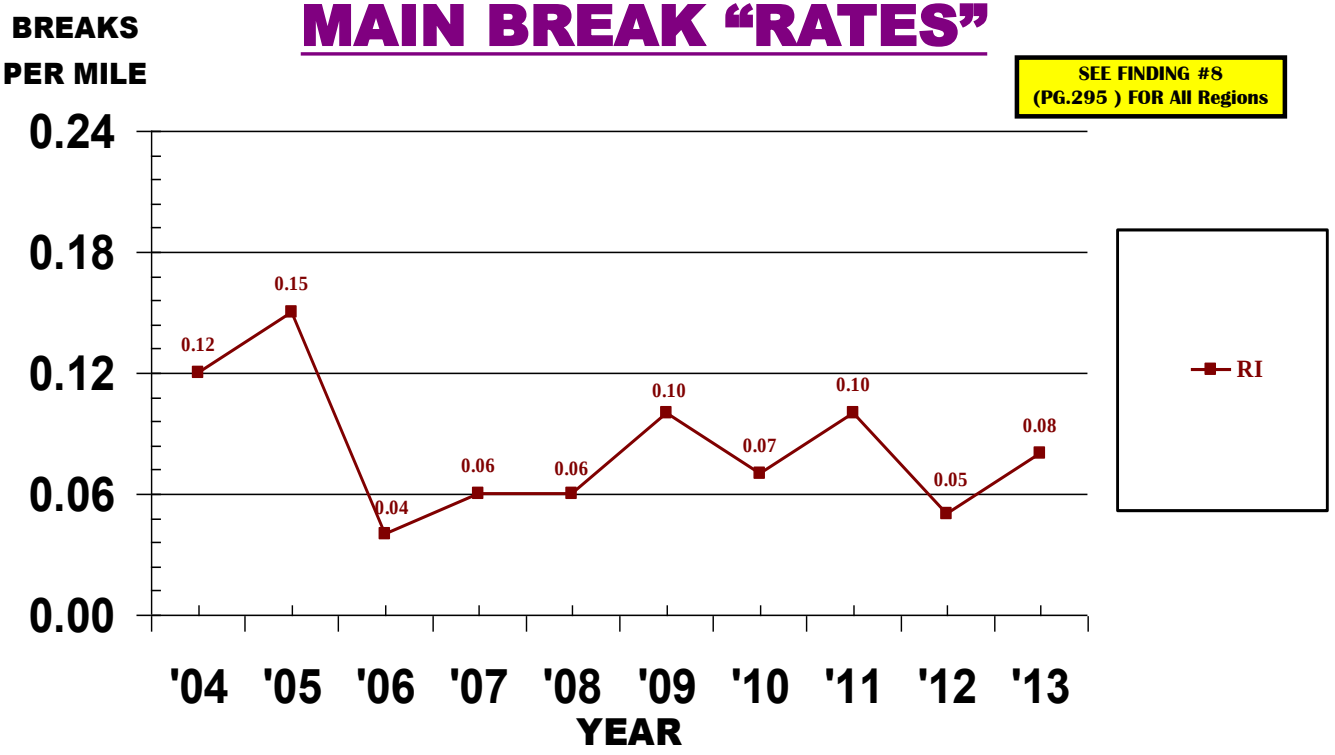
# 2013 SYSTEM INTEGRITY REPORT

## CAST IRON
## MAIN BREAK "RATES"

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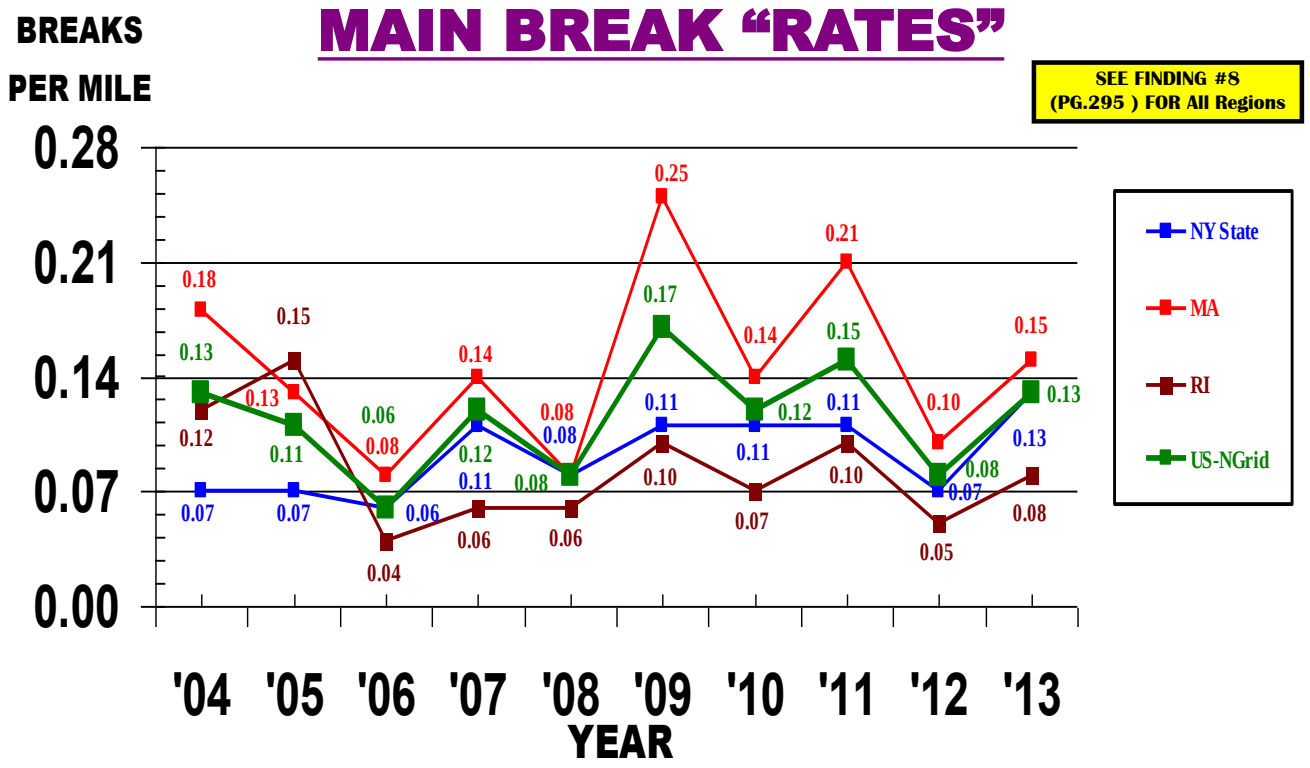
# 2013 SYSTEM INTEGRITY REPORT

## CAST IRON
## MAIN BREAK "RATES"

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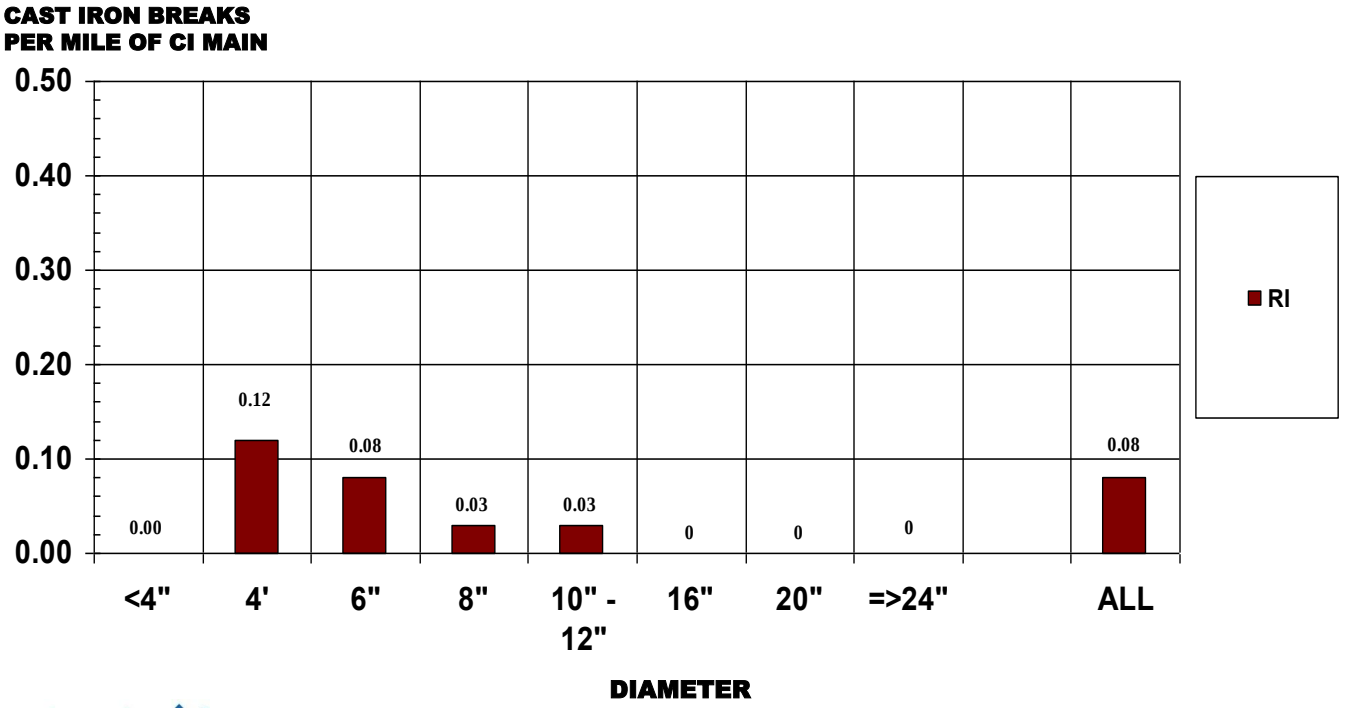
# 2013 SYSTEM INTEGRITY REPORT

## 2013 CAST IRON MAIN BREAK "RATES"

## "RI REGION" COMPARISON BY DIAMETER

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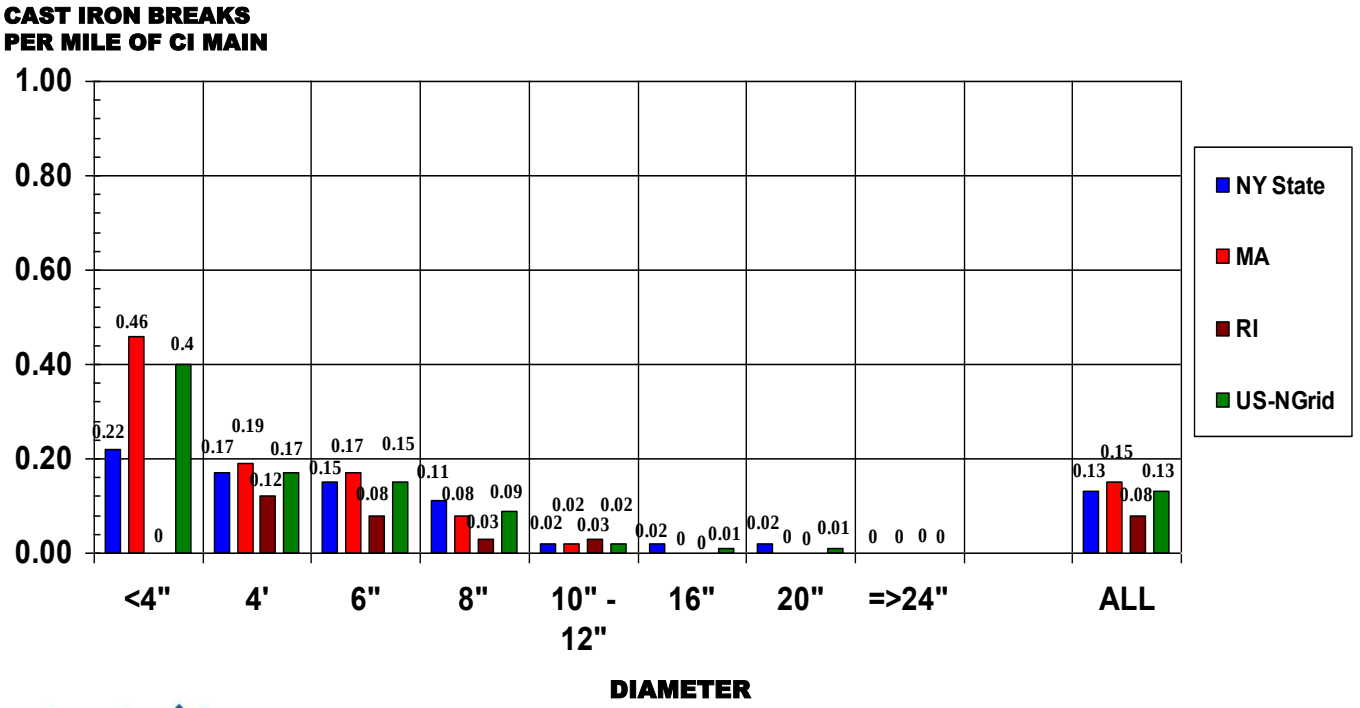
# 2013 SYSTEM INTEGRITY REPORT

## 2013 CAST IRON MAIN BREAK "RATES"

## "ALL REGION" COMPARISON BY DIAMETER

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# 2013 SYSTEM INTEGRITY REPORT

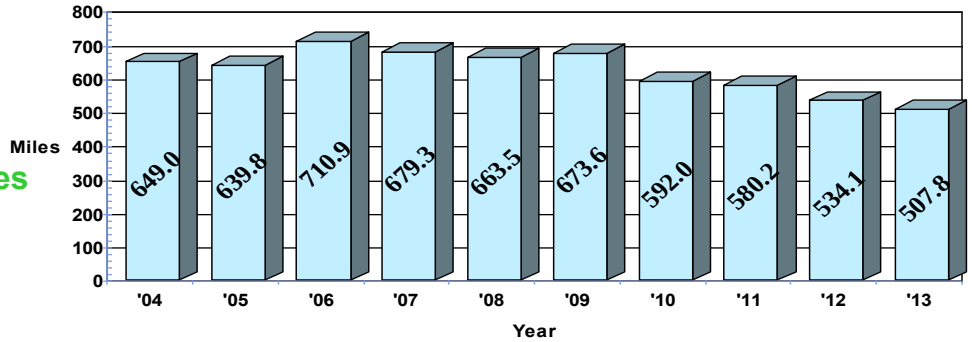
## A CLOSER LOOK AT STEEL MAINS

# 2013 SYSTEM INTEGRITY REPORT

## RI

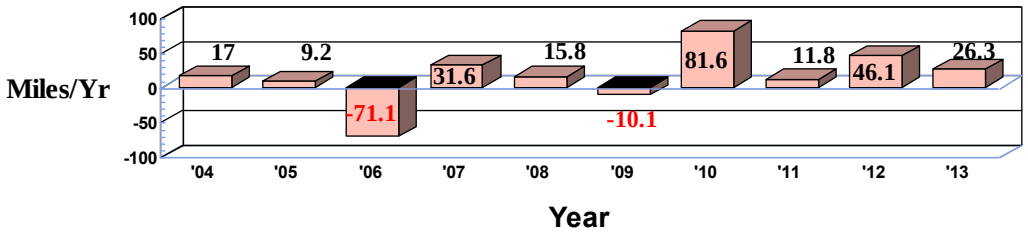
## UNPROTECTED STEEL MAIN INVENTORY

DOT-Reported Pipe Inventories




## UNPROTECTED STEEL ATTRITION RATE

***Avg 10 -Yr Attrition Rate: 15.82 Miles/Year (2.92%)***

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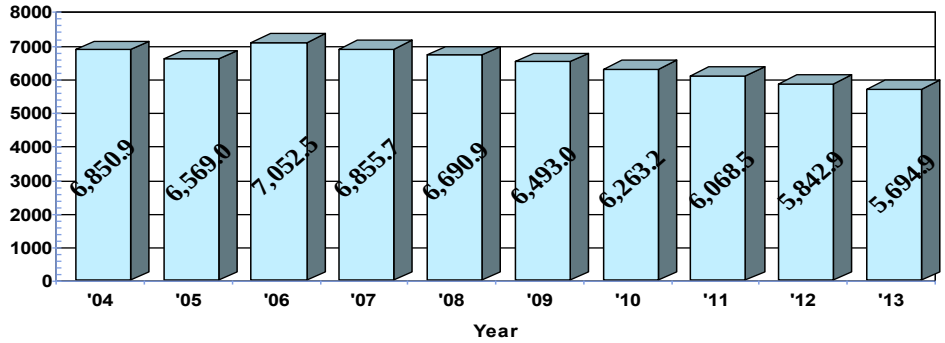
NOTE: In RI, Attrition is due to both replacement and "added" cathodic protection.

# 2013 SYSTEM INTEGRITY REPORT

## US-NGrid

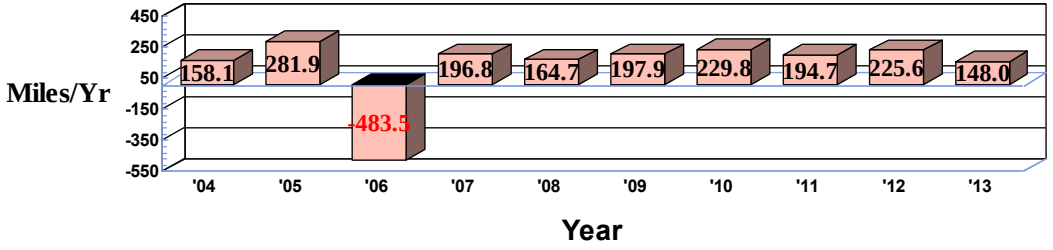
## UNPROTECTED STEEL MAIN INVENTORY

DOT-Reported Pipe Inventories




## UNPROTECTED STEEL ATTRITION RATE

*Avg 10 -Yr Attrition Rate: 131.41 Miles/Year (2.15%)*

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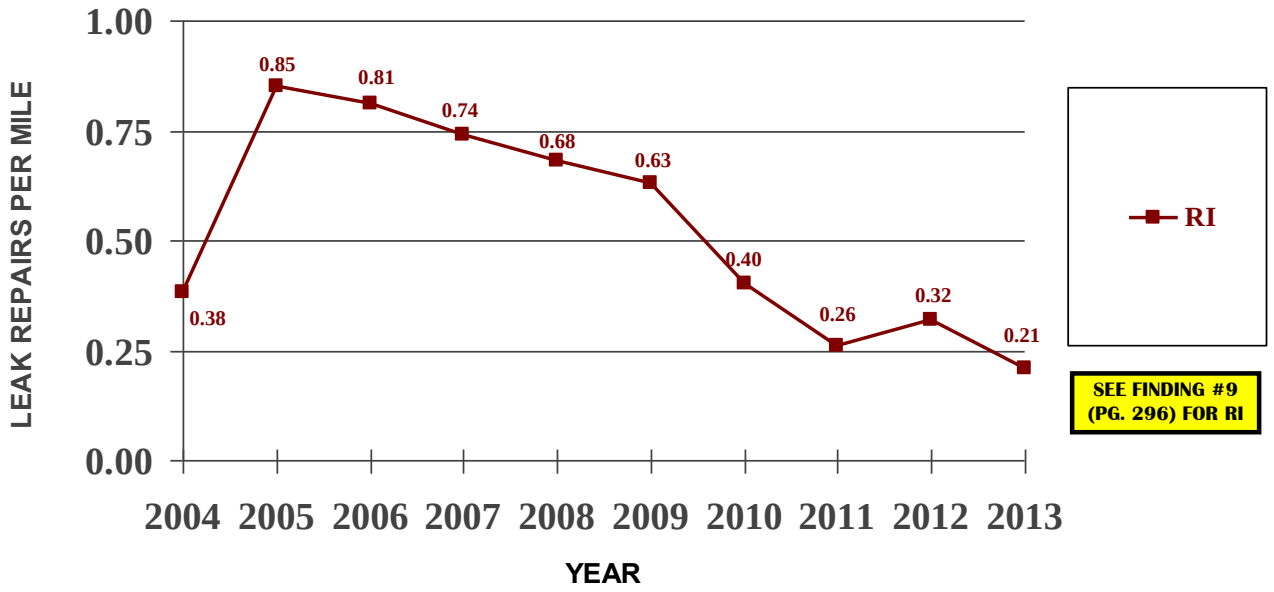
NOTE: In US-NGrid ( MA & RI) Attrition is due to both replacement and "added" cathodic protection.

# 2013 SYSTEM INTEGRITY REPORT

## MAIN CORROSION LEAK "RATES"

### CORROSION Leak Repairs Per Mile of "TOTAL" Steel

INCLUDES **ALL** CORROSION LEAKS, REGARDLESS OF MAIN MATERIAL

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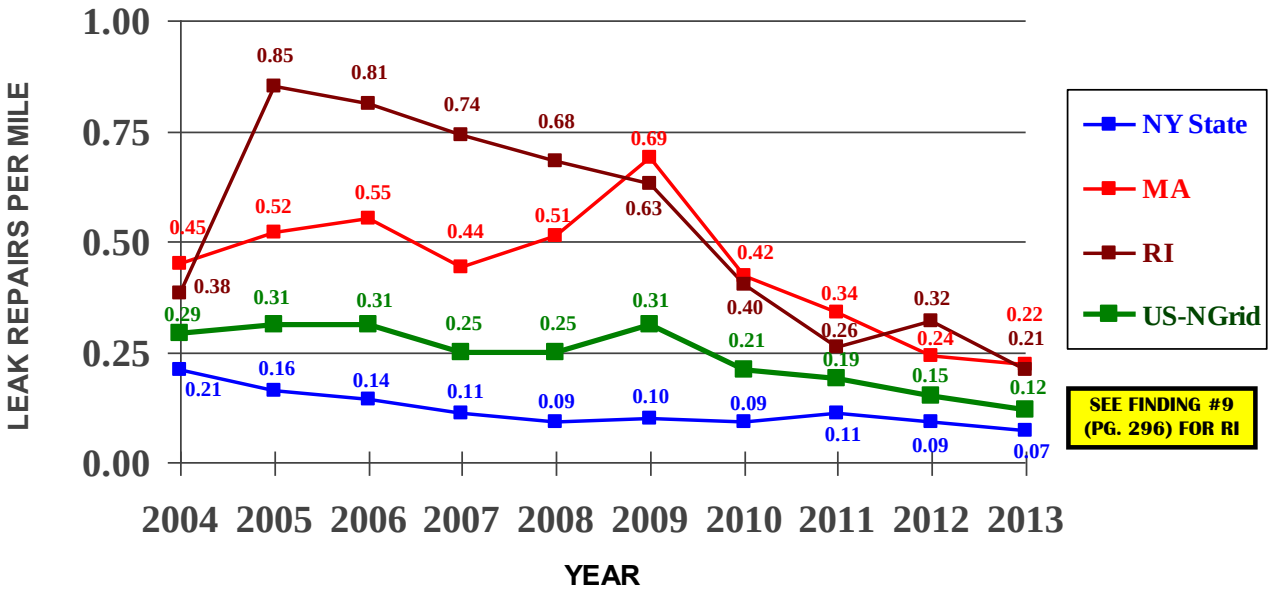
# 2013 SYSTEM INTEGRITY REPORT

## MAIN CORROSION LEAK "RATES"

### CORROSION Leak Repairs Per Mile of "TOTAL" Steel

INCLUDES **ALL** CORROSION LEAKS, REGARDLESS OF MAIN MATERIAL

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# 2013 SYSTEM INTEGRITY REPORT

# SERVICE INVENTORY ANALYSIS

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# 2013 SYSTEM INTEGRITY REPORT

## RI

## SERVICE INVENTORY

### *(NUMBER OF SERVICES)*

| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|---|---|---|---|---|---|---|---|---|---|
| Plastic | 99,630 | 102,026 | 104,640 | 106,500 | 109,144 | 112,313 | 115,718 | 121,770 | 126,474 | 130,002 |
| Copper | 181 | 181 | 181 | 180 | 178 | 177 | 171 | 209 | 208 | 207 |
| Cast Iron | 207 | 208 | 190 | 183 | 175 | 168 | 162 | 194 | 189 | 185 |
| Protected Steel | 16,332 | 16,223 | 11,206 | 11,408 | 12,066 | 11,260 | 11,206 | 10,422 | 10,285 | 10,150 |
| Unprotected Steel | 65,364 | 64,285 | 68,045 | 66,473 | 63,919 | 62,462 | 59,800 | 56,049 | 53,449 | 51,387 |
| Other | 1,830 | 1,747 | 1,656 | 1,547 | 1,470 | 1,405 | 1,348 | 1,322 | 1,085 | 1,000 |
| ***TOTAL SERVICES*** | ***183,544*** | ***184,670*** | ***185,918*** | ***186,291*** | ***186,952*** | ***187,785*** | ***188,405*** | ***189,966*** | ***191,690*** | ***192,931*** |

Note: 16 Ductile iron services in R.I. are counted as “Other” services

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**DOT- Reported Pipe Inventories**

# 2013 SYSTEM INTEGRITY REPORT

## US-NGrid

## SERVICE INVENTORY

### *(NUMBER OF SERVICES)*

| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|---|---|---|---|---|---|---|---|---|---|
| Plastic | 1,287,058 | 1,331,198 | 1,380,296 | 1,404,270 | 1,431,603 | 1,481,743 | 1,528,456 | 1,564,475 | 1,609,251 | 1,657,859 |
| Copper | 182,381 | 180,216 | 178,571 | 177,271 | 175,971 | 172,904 | 170,545 | 169,607 | 167,923 | 165,339 |
| Cast Iron | 5,825 | 5,812 | 5,608 | 5,540 | 5,507 | 5,421 | 5,192 | 5,098 | 4,688 | 3,355 |
| Protected Steel | 202,096 | 212,317 | 212,546 | 212,883 | 210,081 | 204,954 | 202,429 | 199,810 | 197,509 | 193,752 |
| Unprotected Steel | 555,267 | 549,961 | 563,059 | 554,670 | 546,990 | 519,984 | 496,858 | 480,738 | 462,191 | 446,505 |
| Other | 246,597 | 174,068 | 126,054 | 119,922 | 118,252 | 114,077 | 106,884 | 105,028 | 101,426 | 96,358 |
| **TOTAL SERVICES** | **2,479,224** | **2,453,572** | **2,466,134** | **2,474,556** | **2,488,404** | **2,499,083** | **2,510,364** | **2,524,756** | **2,542,988** | **2,563,168** |

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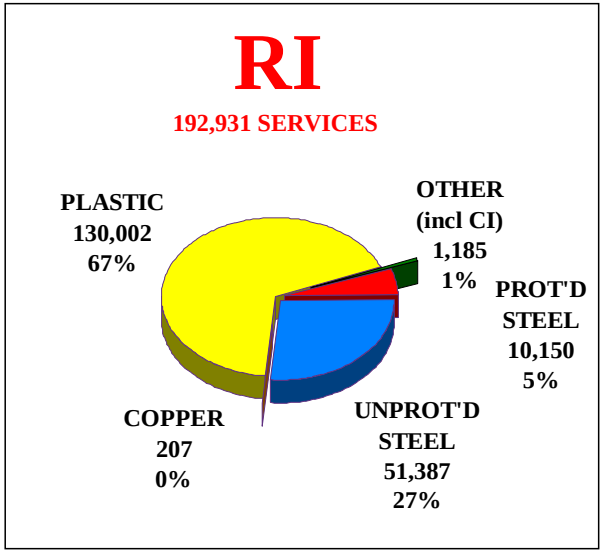
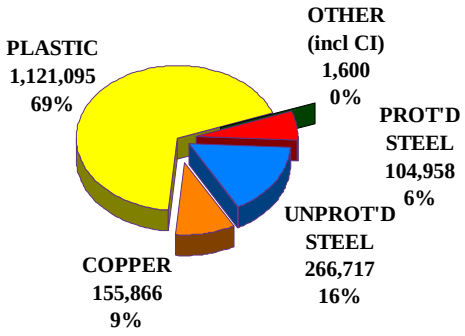
**DOT- Reported Pipe Inventories**

# 2013 SYSTEM INTEGRITY REPORT
# SERVICE INVENTORY

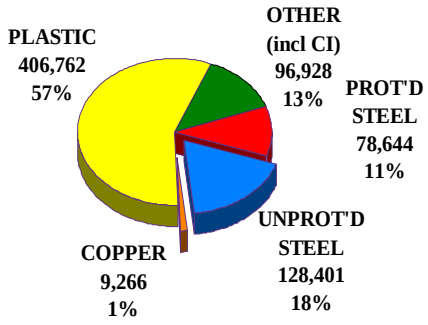


# 2013 SYSTEM INTEGRITY REPORT
# SERVICE INVENTORY

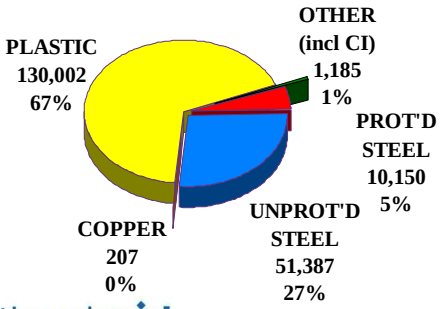
## NY State 1,650,236 SERVICES




## MA 720,001 SERVICES

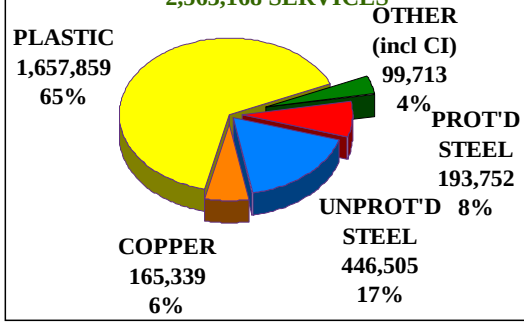



## RI 192,931 SERVICES




## US-NGrid

2,563,168 SERVICES

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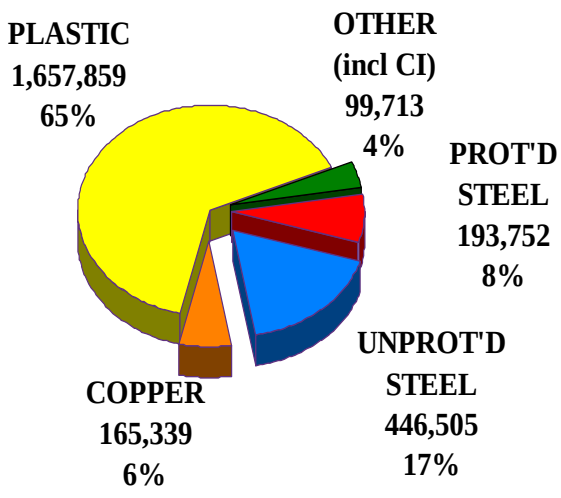
# 2013 SYSTEM INTEGRITY REPORT
## 2013 SERVICE INVENTORY
### U.S. COMPARATIVE SUMMARY

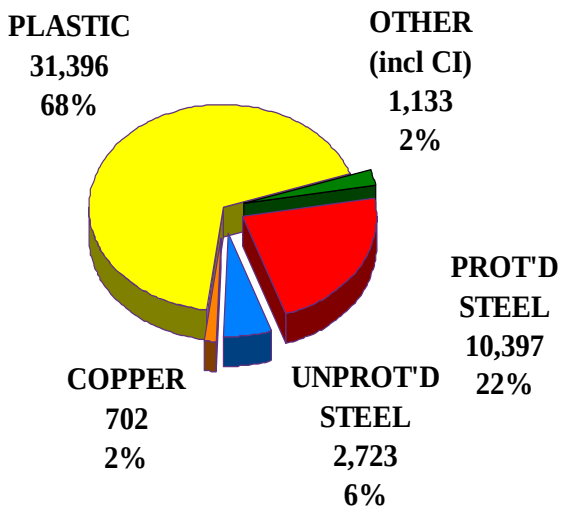
***National Grid - US***

**2,563,168 SERVICES**




***2012 PHMSA Average***

**46,351 SERVICES**

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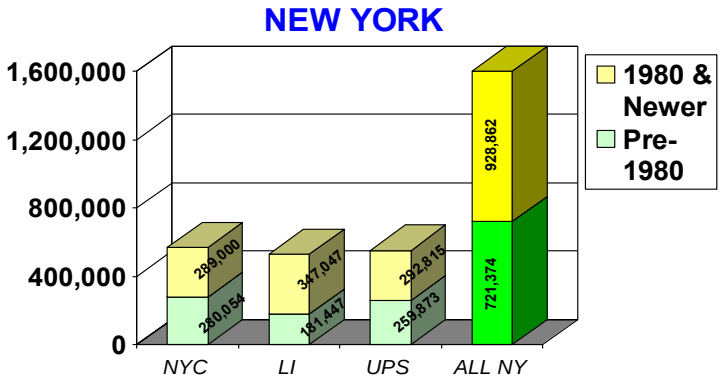
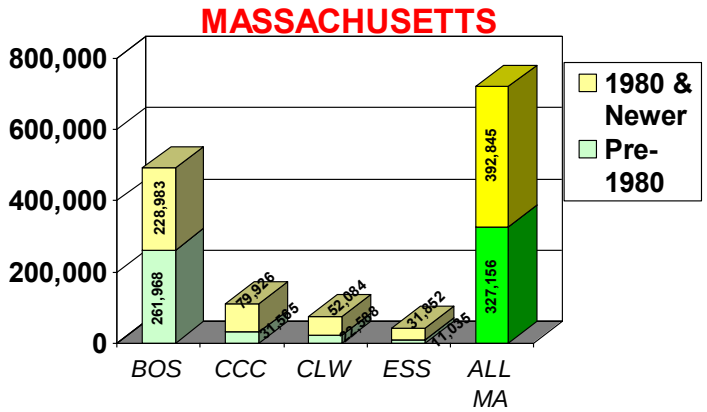
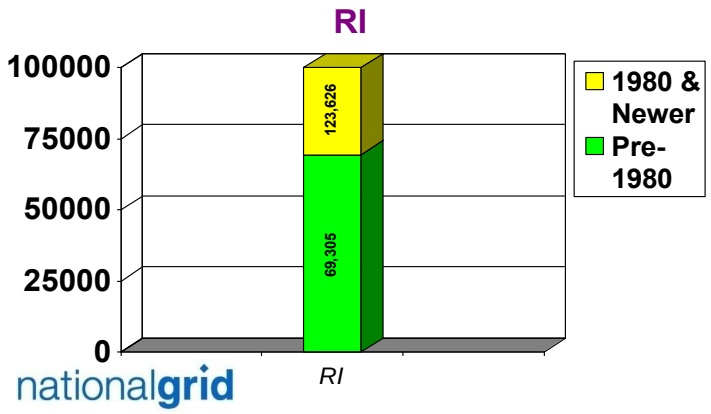
# 2013 SYSTEM INTEGRITY REPORT

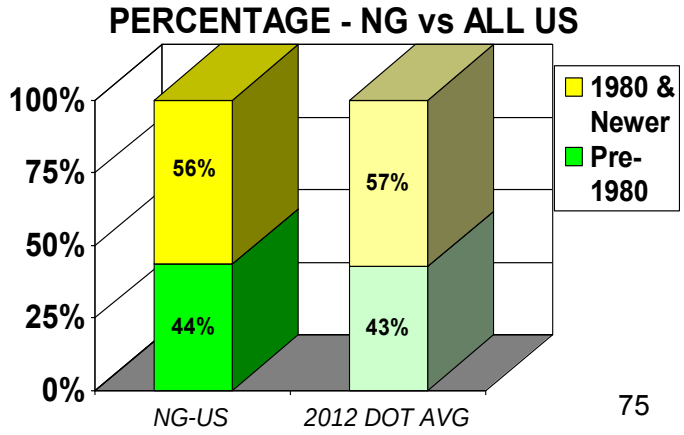
## 2013 SERVICE INVENTORY

### Service Age Analysis

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# 2013 SYSTEM INTEGRITY REPORT

# SERVICE LEAK REPAIR ANALYSIS

**NOTE: Above Ground Leaks, which are included in the DOT Reports (beginning in 2012), are excluded from this report in order to maintain the integrity of our trend analyses for distribution (not CMS) piping.**

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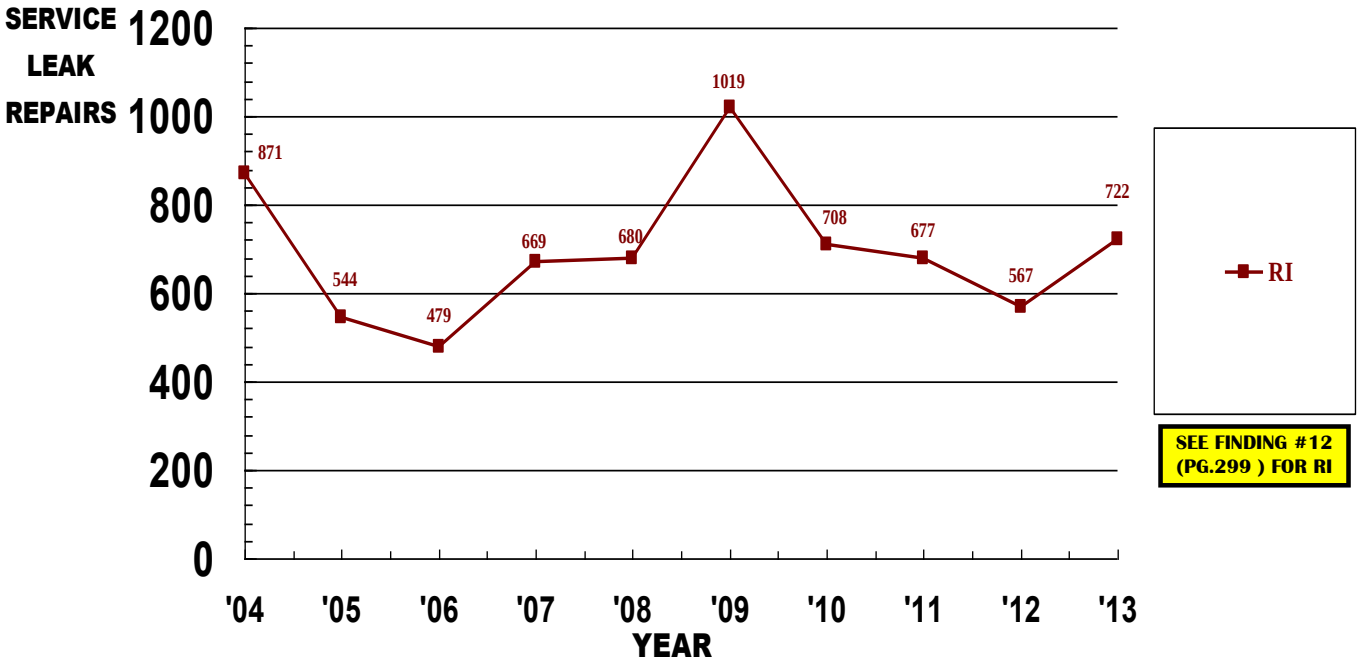
# 2013 SYSTEM INTEGRITY REPORT

# TOTAL SERVICE LEAK REPAIRS

**INCLUDING Damages**

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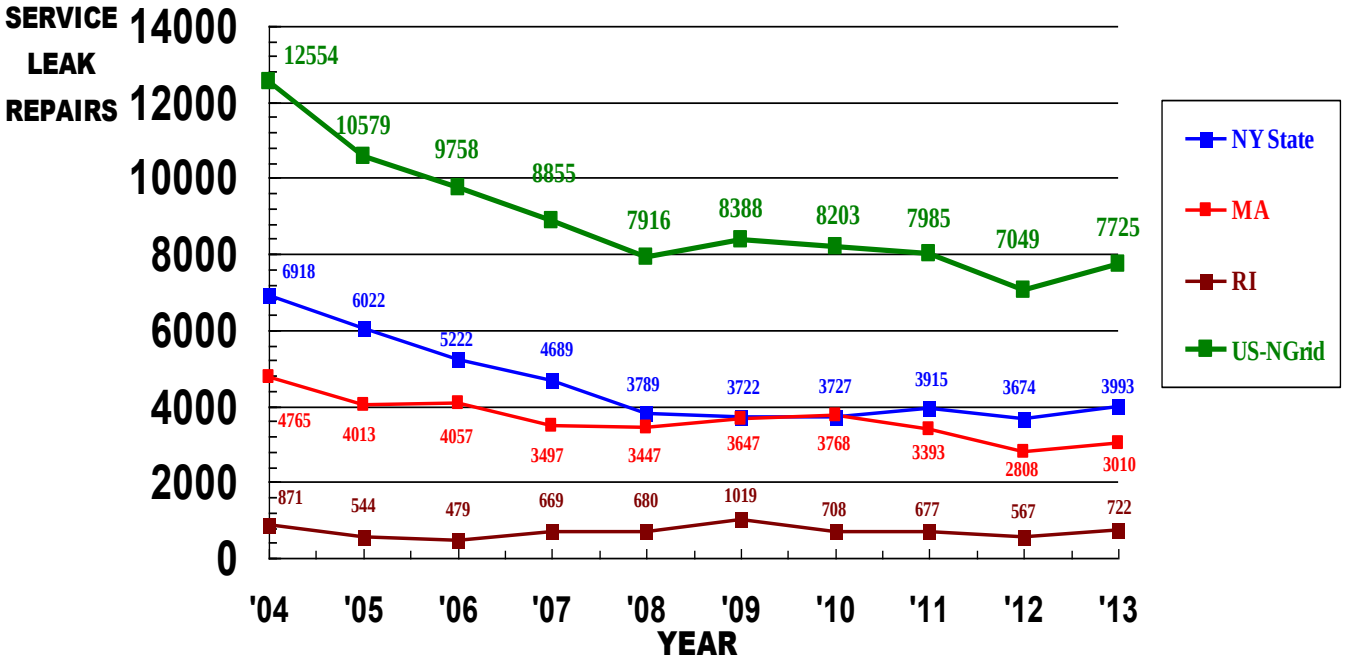
# 2013 SYSTEM INTEGRITY REPORT

# TOTAL SERVICE LEAK REPAIRS

**INCLUDING Damages**

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# 2013 SYSTEM INTEGRITY REPORT

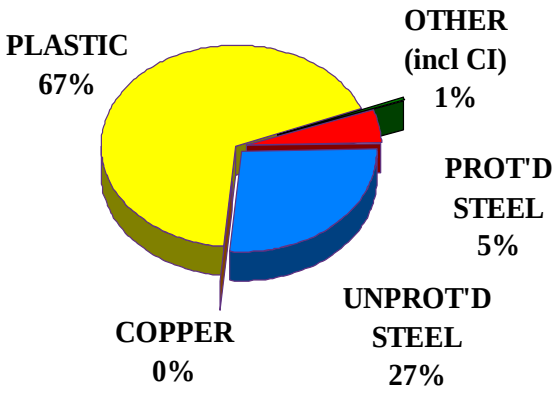
## 2013 TOTAL SERVICE LEAK REPAIRS

**RI**

**INCLUDING Damages**

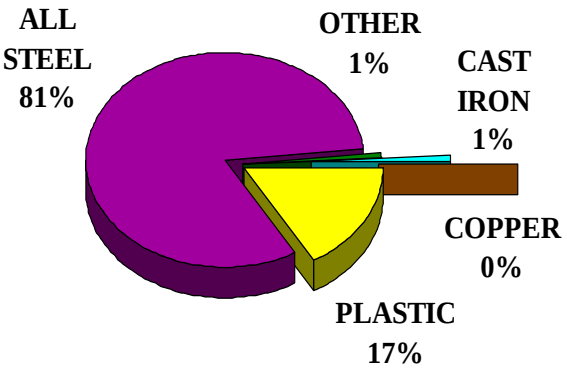
### TOTAL SERVICE INVENTORY
*BY MATERIAL*

192,931 SERVICES




### TOTAL SERVICE LEAK REPAIRS
*BY MATERIAL*

722 LEAKS

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**IMPORTANT**: *Service Repairs are identified by the service material. This is not necessarily the material that leaked. For example - a leak caused by corrosion of a steel valve or fitting on a plastic service is shown as a plastic service leak.*

# 2013 SYSTEM INTEGRITY REPORT

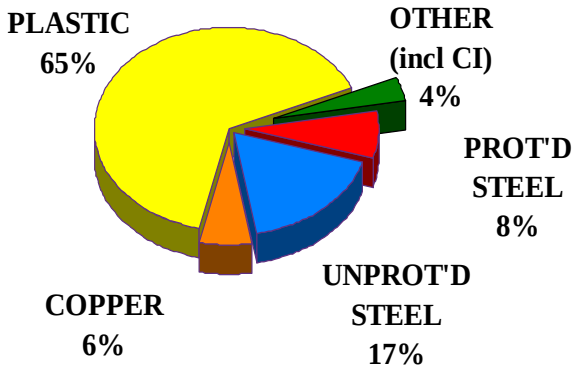
## 2013 TOTAL SERVICE LEAK REPAIRS

## US-NGrid

**INCLUDING Damages**

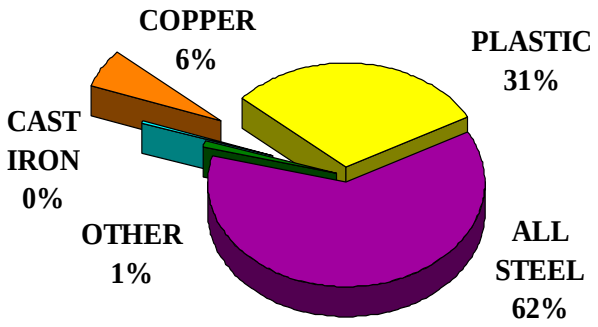
### TOTAL SERVICE INVENTORY
### BY MATERIAL

**2,563,168 SERVICES**




### TOTAL SERVICE LEAK REPAIRS
### BY MATERIAL

**7,725 LEAKS**

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**IMPORTANT**: *Service Repairs are identified by the service material. This is not necessarily the material that leaked. For example - a leak caused by corrosion of a steel valve or fitting on a plastic service is shown as a plastic service leak.*

# 2013 SYSTEM INTEGRITY REPORT

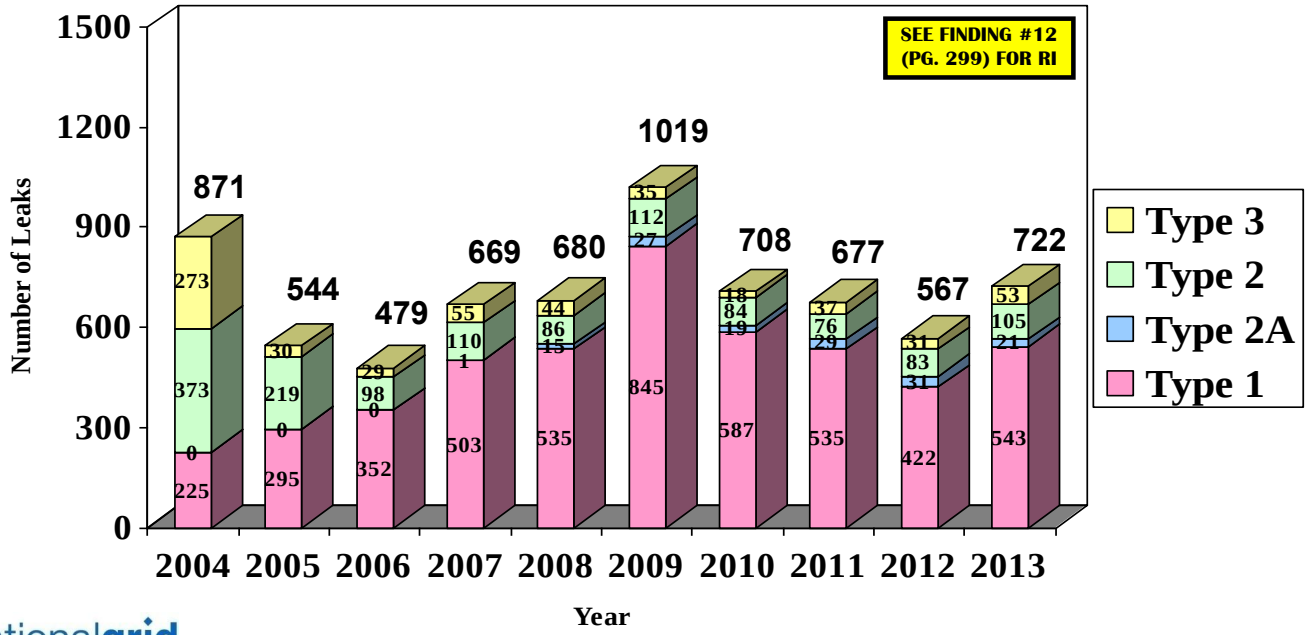
## LEAKS REPAIRED

RI

## By REPAIRED Type

SERVICE

**(Including damages)**

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Note: 2004 RI Leaks Repaired Data is incomplete in SmallWorld.

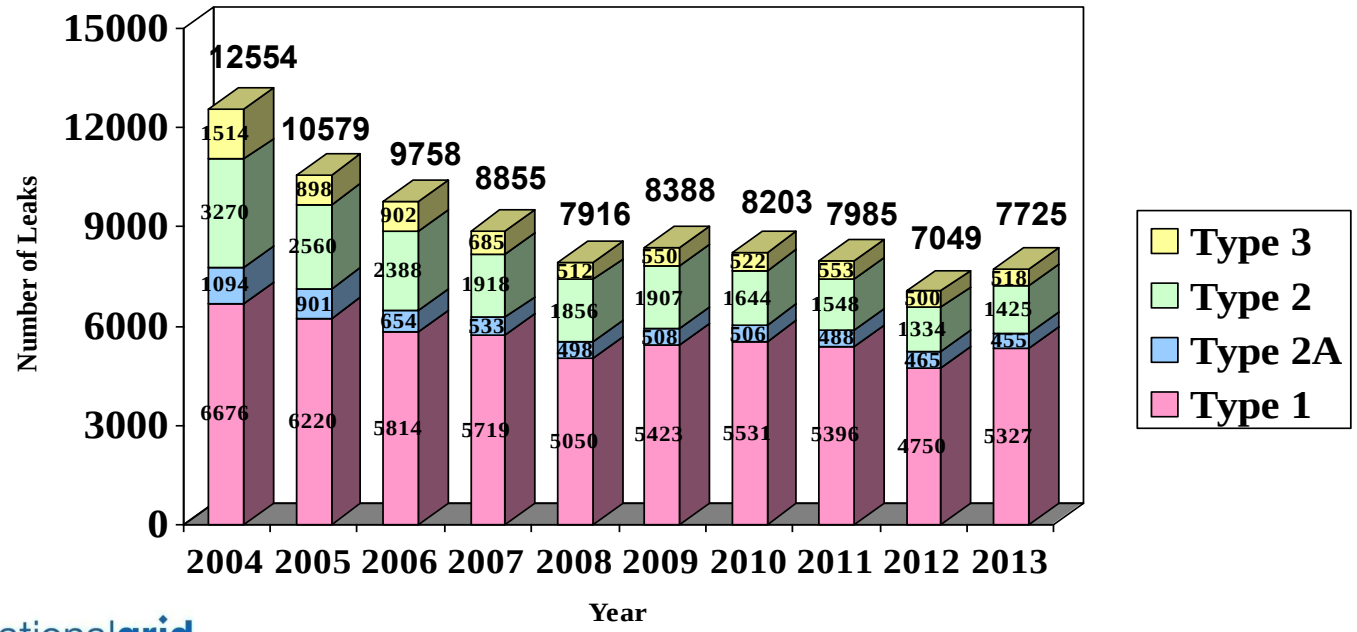
# 2013 SYSTEM INTEGRITY REPORT

US NGrid

## LEAKS REPAIRED By REPAIRED Type

SERVICE

(Including damages)

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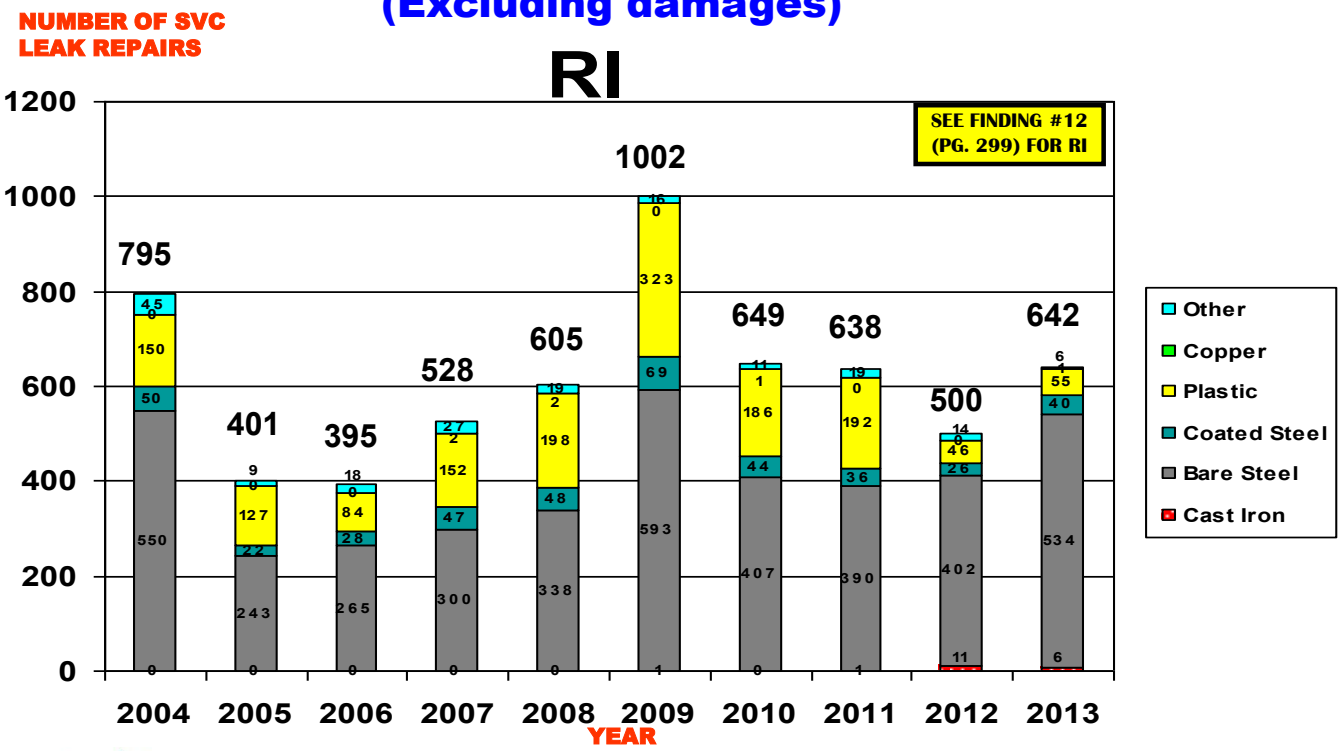
# 2013 SYSTEM INTEGRITY REPORT
## 2004 -2013 SERVICE LEAK REPAIRS
### All Service Leak Repairs by Material
### (Excluding damages)

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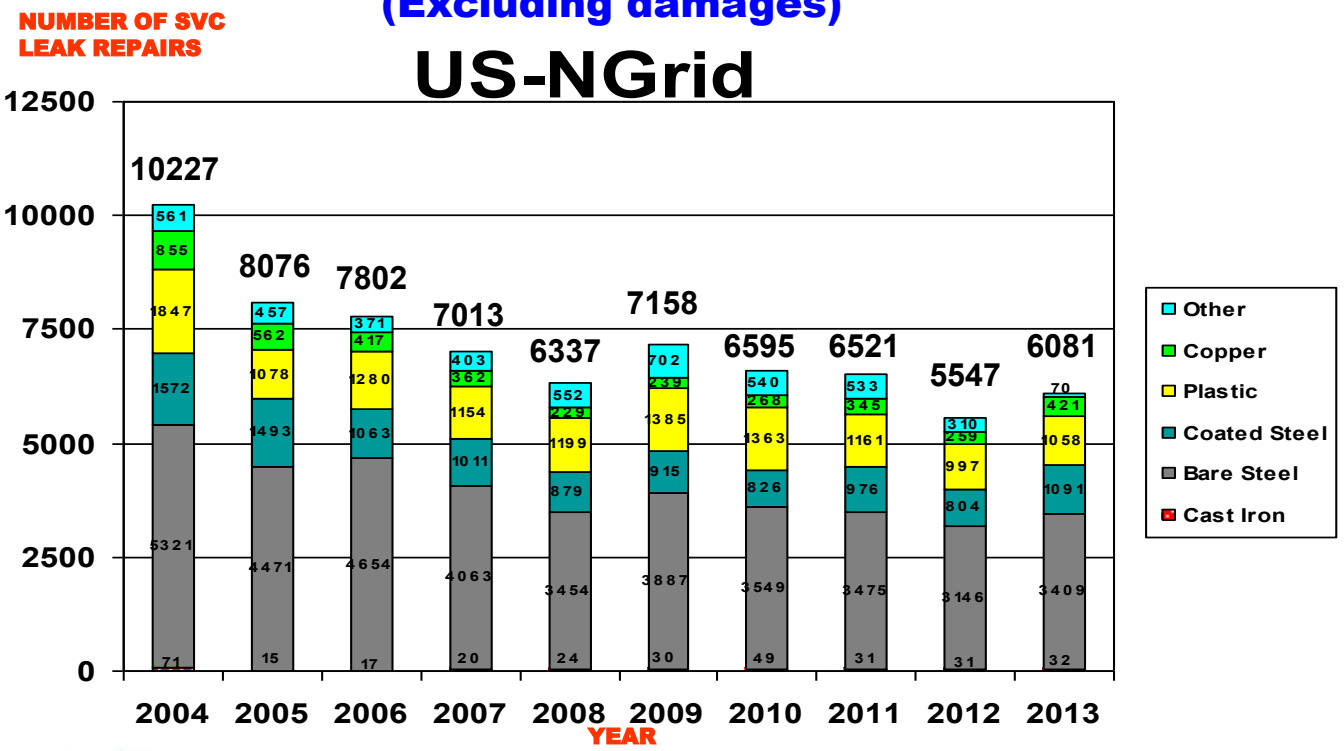
# 2013 SYSTEM INTEGRITY REPORT
## 2004 -2013 SERVICE LEAK REPAIRS
### All Service Leak Repairs by Material
### (Excluding damages)

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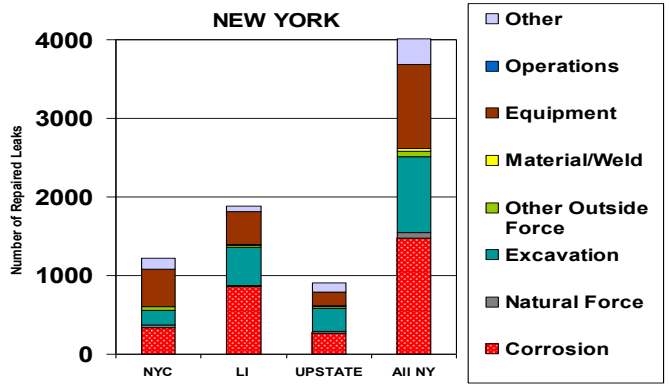
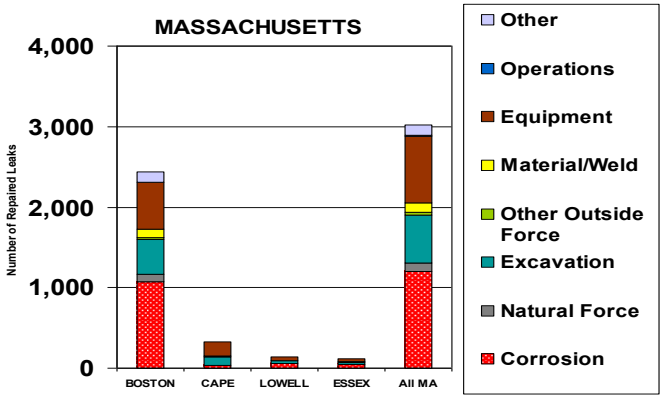
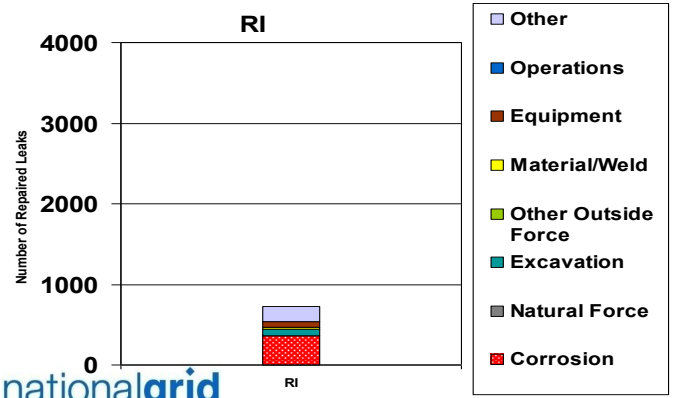
# 2013 SYSTEM INTEGRITY REPORT

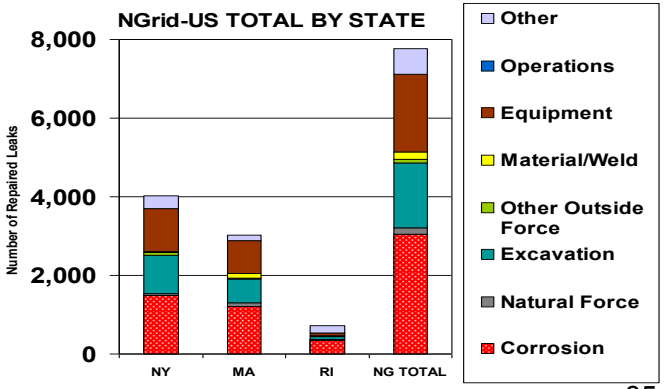
## 2013 SERVICE LEAK REPAIRS

### All Service Leak Repairs (including damages & Above Ground Leaks)

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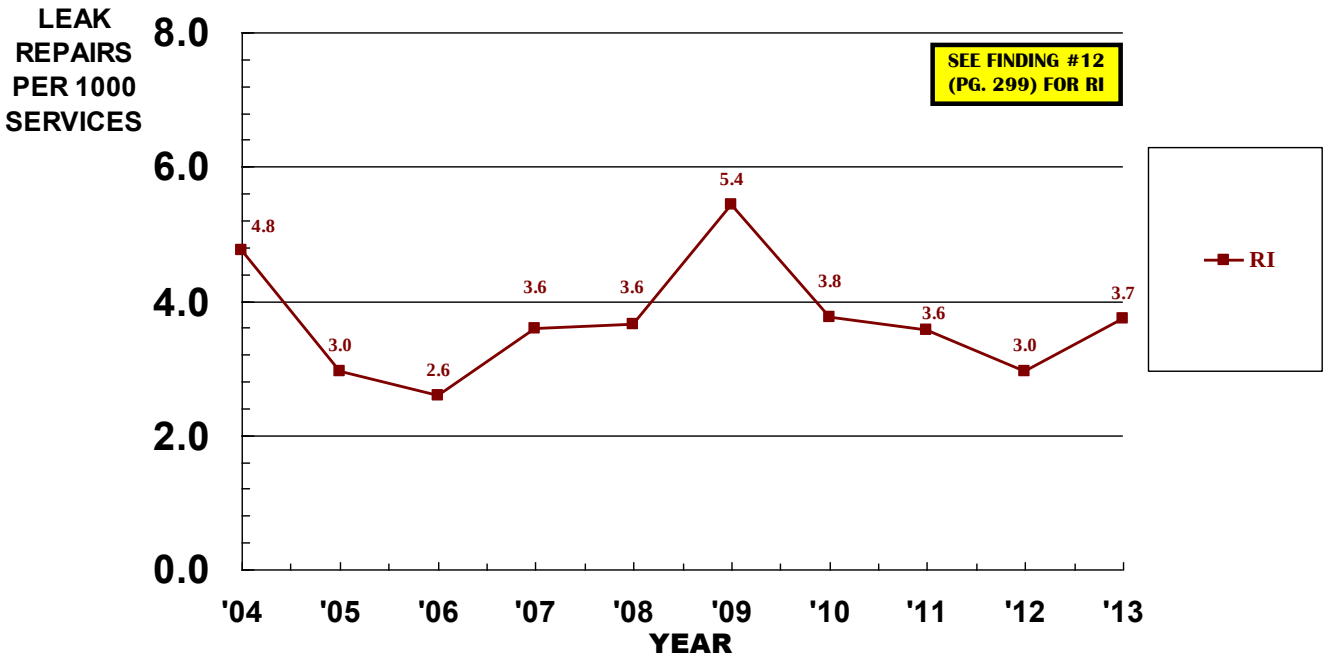
# 2013 SYSTEM INTEGRITY REPORT
# TOTAL SERVICE LEAK "RATES"

**INCLUDING Damages**

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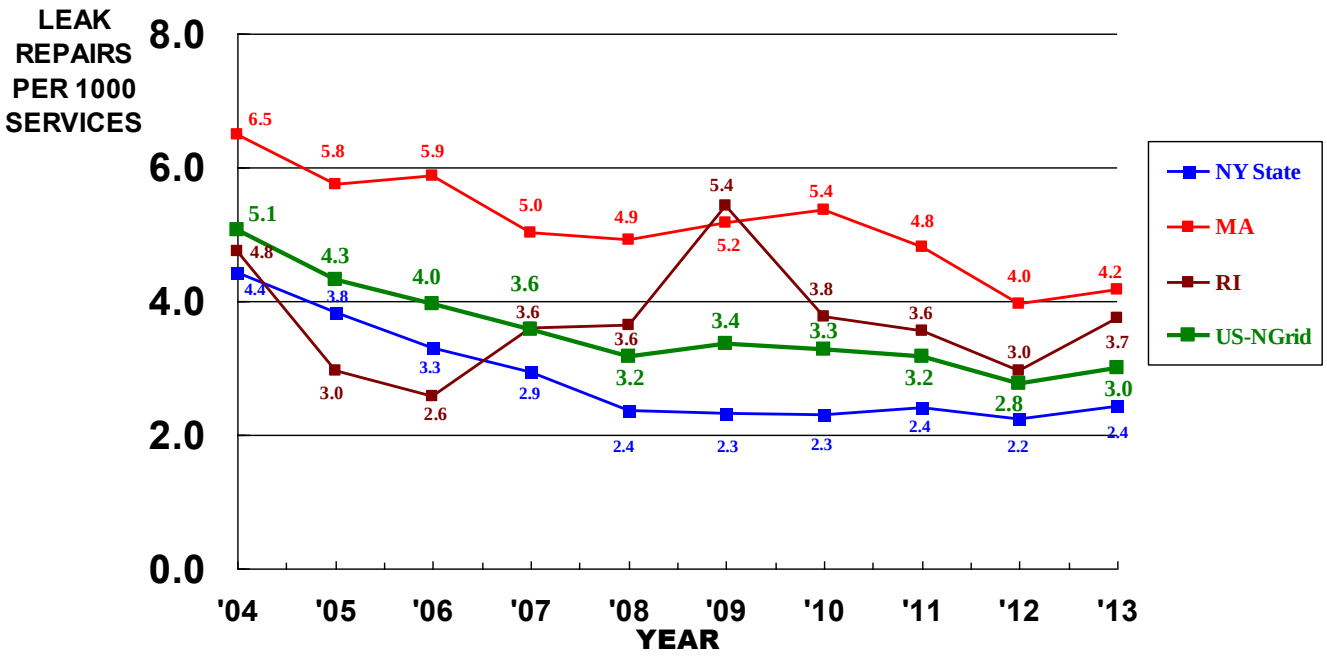
# 2013 SYSTEM INTEGRITY REPORT
# TOTAL SERVICE LEAK "RATES"

## INCLUDING Damages

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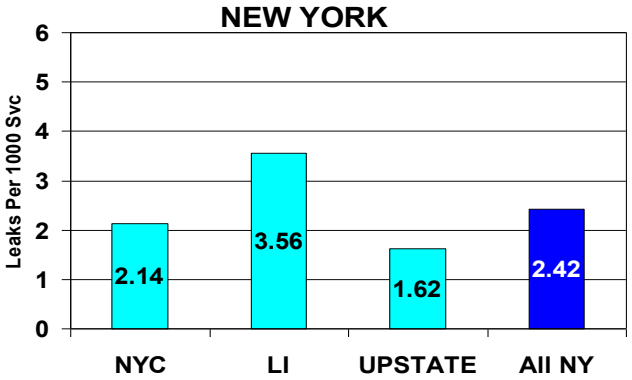
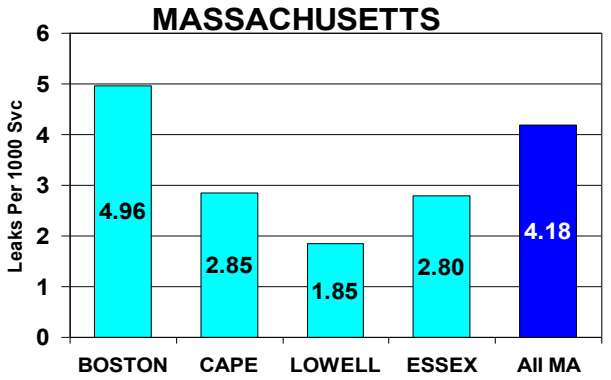
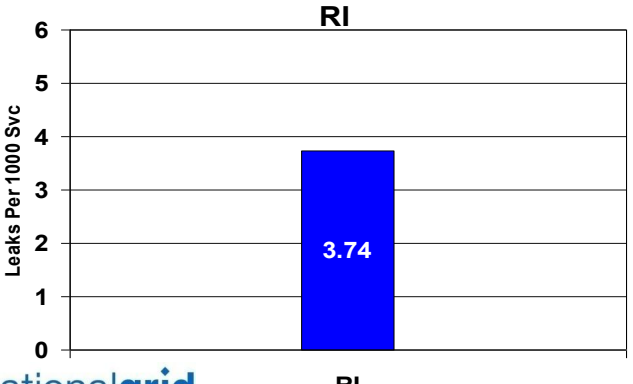
# 2013 SYSTEM INTEGRITY REPORT

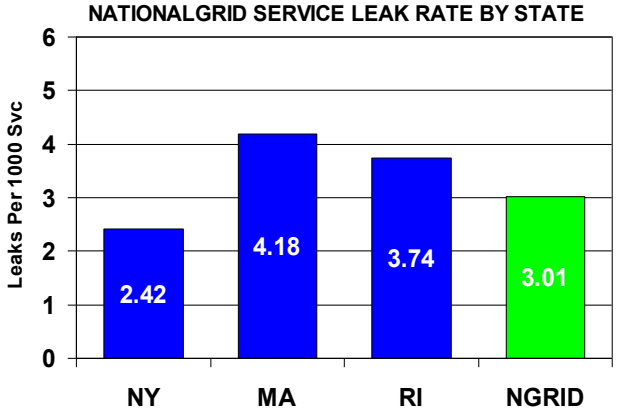
## 2013 SERVICE LEAK "RATES"

**Total Service Leak Repairs (incl. damages) / 1,000 Total Services**

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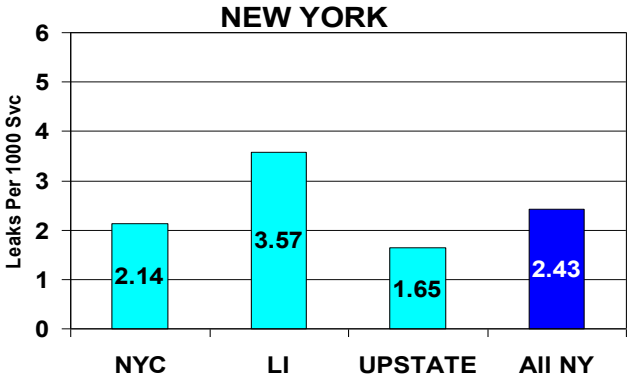
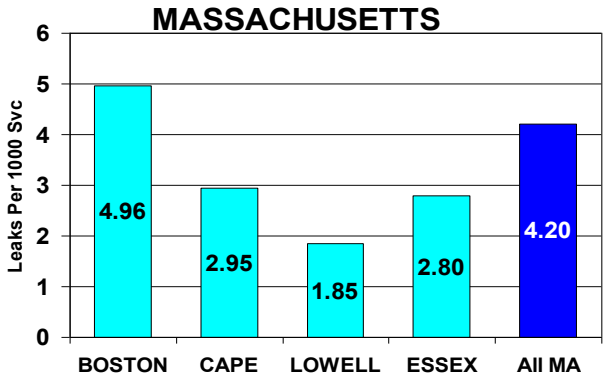
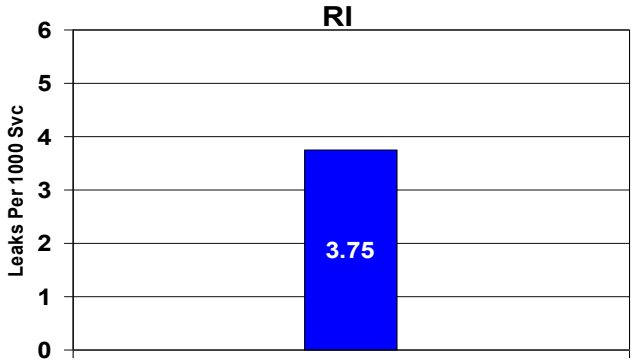
# 2013 SYSTEM INTEGRITY REPORT

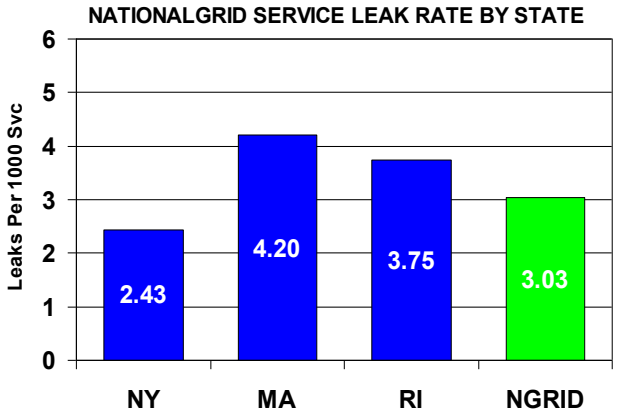
## 2013 SERVICE LEAK "RATES"

**Total Service Leak Repairs (incl. damage & above ground leak) / 1,000 Total Services**

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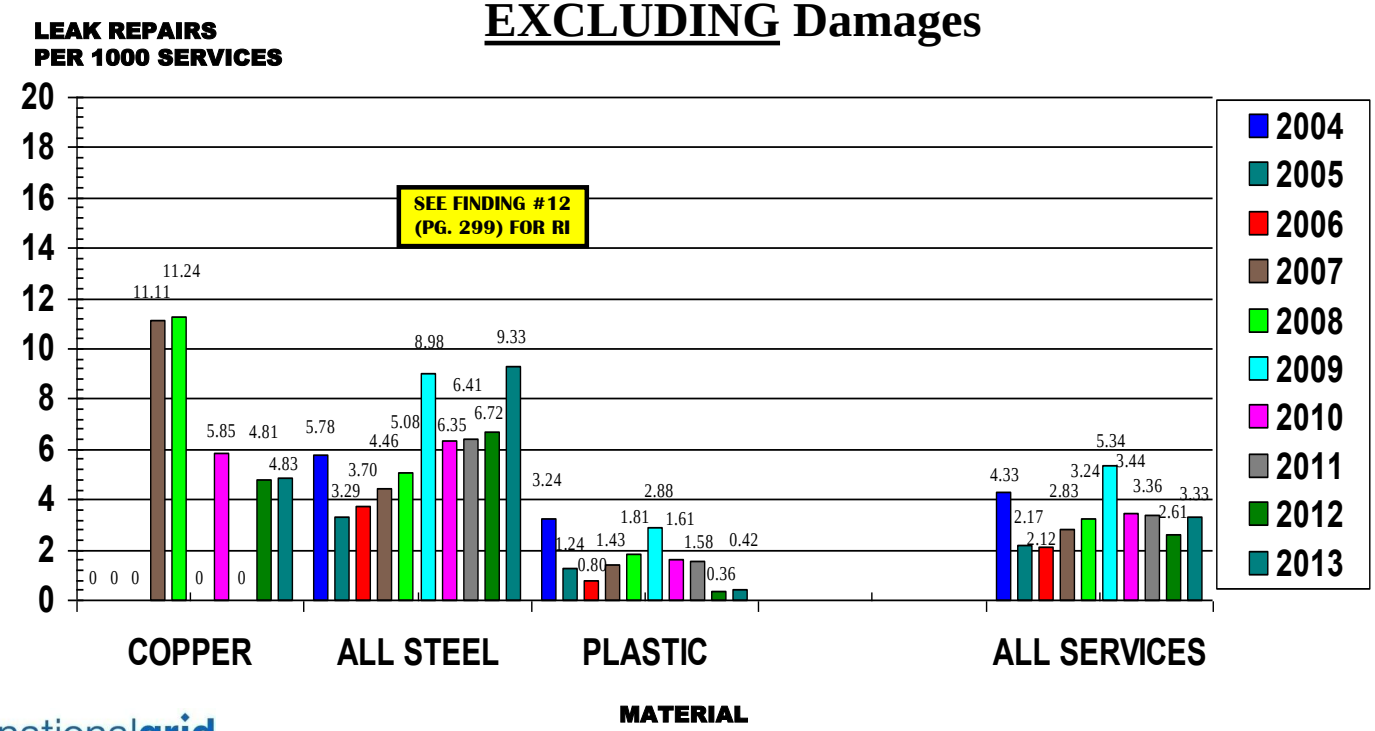
# 2013 SYSTEM INTEGRITY REPORT

## RI

## TOTAL SERVICE LEAK "RATES"

### *COMPARISON BY MATERIAL*

**EXCLUDING Damages**

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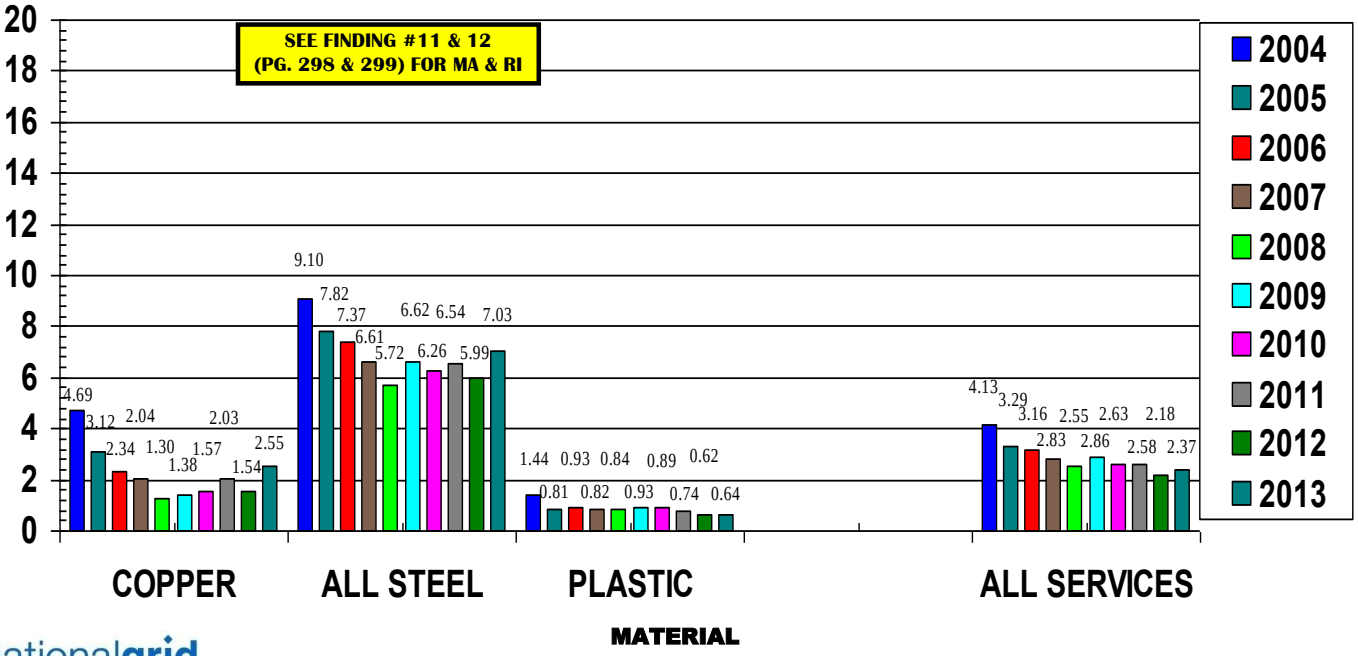
# 2013 SYSTEM INTEGRITY REPORT

## US-NGrid TOTAL SERVICE LEAK "RATES"

### *COMPARISON BY MATERIAL*

**EXCLUDING Damages**

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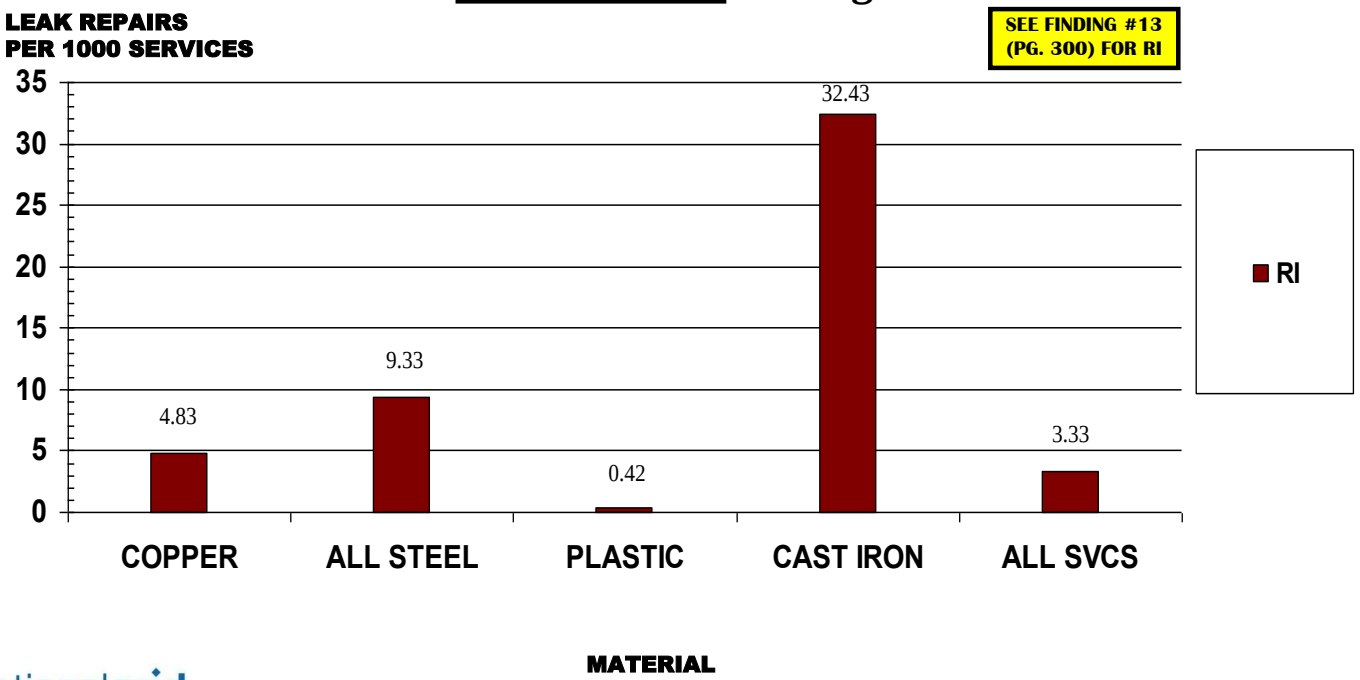
# 2013 SYSTEM INTEGRITY REPORT

## 2013 SERVICE LEAK "RATES"

### "RI" COMPARISON BY MATERIAL

**EXCLUDING Damages**

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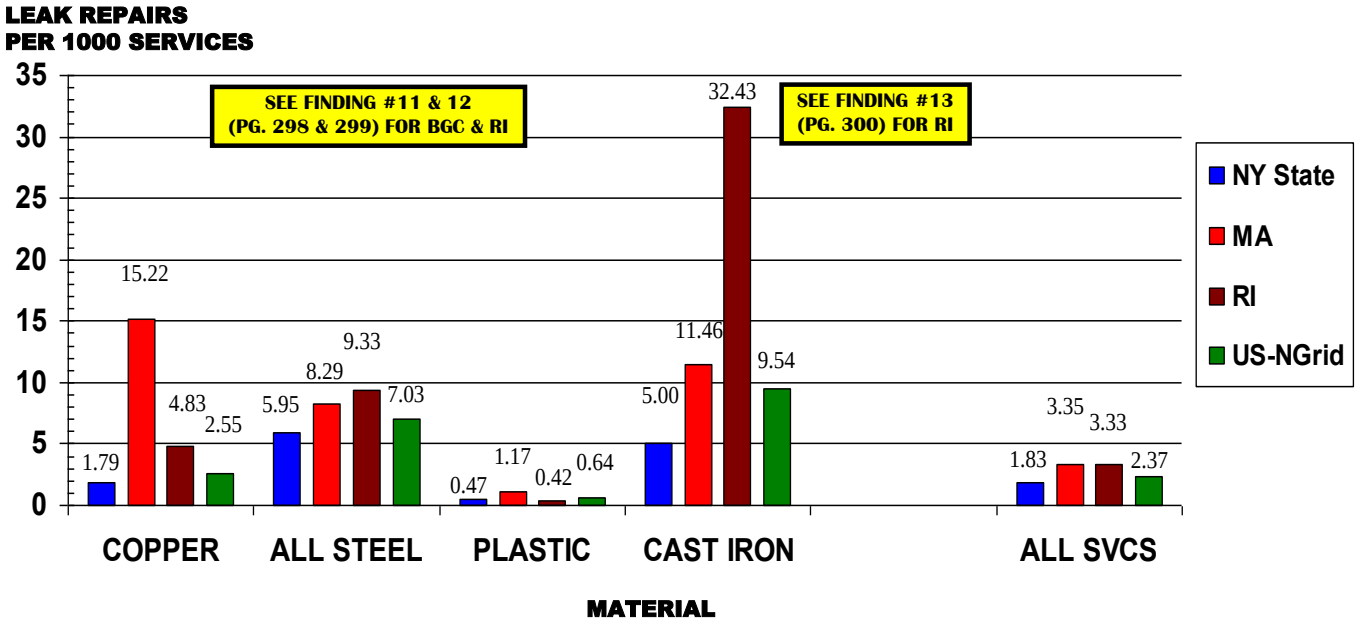
# 2013 SYSTEM INTEGRITY REPORT

## 2013 SERVICE LEAK "RATES"

## "ALL REGION" COMPARISON BY MATERIAL

**EXCLUDING Damages**

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# 2013 SYSTEM INTEGRITY REPORT

## 2013 DETAILS OF SERVICE LEAK REPAIRS

# 2013 SYSTEM INTEGRITY REPORT

RI

## 2013 SERVICE LEAKS

### MATERIAL-CAUSE MATRIX

| | CORROSION | MATL/WELD | NAT FORCE | OTH OS FRC | EQUIPMENT | OPERATIONS | OTHER | DAMAGES | ALL CAUSES |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| CAST IRON | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 7 |
| COPPER | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| STEEL | 354 | 3 | 5 | 0 | 40 | 0 | 172 | 14 | 588 |
| *BARE* | *333* | *2* | *5* | *0* | *27* | *0* | *167* | *13* | *547* |
| *COATED* | *21* | *1* | *0* | *0* | *13* | *0* | *5* | *1* | *41* |
| PLASTIC | 1 | 12 | 0 | 1 | 37 | 0 | 4 | 65 | 120 |
| OTHER | 3 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 6 |
| | | | | | | | | | |
| ALL SVCS | 360 | 15 | 5 | 1 | 79 | 0 | 182 | 80 | 722 |

COUNTING EACH INDIVIDUAL REPAIR AS A LEAK

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# 2013 SYSTEM INTEGRITY REPORT

## US-NGrid

## 2013 SERVICE LEAKS
### MATERIAL-CAUSE MATRIX

| | CORROSION | MATL/WELD | NAT FORCE | OTH OS FRC | EQUIPMENT | OPERATIONS | OTHER | DAMAGES | ALL CAUSES |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| CAST IRON | 12 | 1 | 3 | 0 | 4 | 0 | 12 | 6 | 38 |
| COPPER | 66 | 6 | 14 | 12 | 290 | 0 | 33 | 38 | 459 |
| STEEL | 2,945 | 83 | 121 | 31 | 793 | 1 | 526 | 295 | 4,795 |
| *BARE* | *2,411* | *76* | *109* | *20* | *400* | *1* | *392* | *227* | *3,636* |
| *COATED* | *534* | *7* | *12* | *11* | *393* | *0* | *134* | *68* | *1,159* |
| PLASTIC | 6 | 73 | 35 | 49 | 831 | 0 | 64 | 1,304 | 2,362 |
| OTHER | 8 | 2 | 2 | 0 | 56 | 0 | 2 | 1 | 71 |
| | | | | | | | | | |
| ALL SVCS | 3,037 | 165 | 175 | 92 | 1,974 | 1 | 637 | 1,644 | 7,725 |

COUNTING EACH INDIVIDUAL REPAIR AS A LEAK

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# 2013 SYSTEM INTEGRITY REPORT

## 2012/2013
## DISTRIBUTION
## DOT REPORT
## DATA COMPARISONS

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# 2013 SYSTEM INTEGRITY REPORT

## 2012/2013 DOT ANNUAL DISTRIBUTION REPORT COMPARISONS (RI & US-NGRID)

| | | RI | | | | US - NGRID (ALL REGIONS COMBINED) | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 2013 | 2012 | Delta(13-12) | % | 2013 | 2012 | Delta(13-12) | % |
| Main Inventory | Cast Iron | 831 miles | 859 miles | -27.791 | -3.2% | 5,525.512 miles | 5,692 miles | -166.484 | -3% |
| | Plastic | 1227 miles | 1,168 miles | +59.317 | 5% | 14,476.637 miles | 14,030 miles | +446.784 | 3% |
| | UP Bare Steel | 320 miles | 346 miles | -26.115 | -8% | 4,016.400 miles | 4,154 miles | -137.412 | -3% |
| | UP Coated Steel | 188 miles | 188 miles | -0.178 | 0% | 1,678.470 miles | 1,689 miles | -10.622 | -1% |
| | CP Bare Steel | 0 miles | 0 miles | +0 | 0% | 393.788 miles | 392 miles | +1.979 | 1% |
| | CP Coated Steel | 596 miles | 597 miles | -0.69 | 0% | 8,714.091 miles | 8,724 miles | -9.847 | 0% |
| | Other | 0 miles | 0 miles | +0 | 0% | 0.046 miles | 0 miles | -0.026 | -36% |
| | Ductile Iron | 16.242 miles | 16 miles | -0.084 | -0.5% | 16.242 miles | 16 miles | -0.084 | -1% |
| | *TOTAL MAIN* | *3,179 miles* | *3,174 miles* | +4.459 | *0.1%* | 34,821 *miles* | 34,697 *miles* | +124.288 | *0.4%* |
| Main Leaks | Corrosion | 228 repairs | 357 repairs | -129 | -36% | 1,831 repairs | 2,207 repairs | -376 | -17% |
| | Natural Forces | 54 repairs | 22 repairs | +32 | 145% | 743 repairs | 447 repairs | +296 | 66% |
| | Excavation | 35 repairs | 66 repairs | -31 | -47% | 300 repairs | 290 repairs | +10 | 3% |
| | Other Outside Force | 1 repairs | 1 repairs | +0 | 100% | 18 repairs | 23 repairs | -5 | -22% |
| | Material or Welds | 3 repairs | 1 repairs | +2 | 100% | 69 repairs | 67 repairs | +2 | 3% |
| | Equipment | 49 repairs | 86 repairs | -37 | -43% | 829 repairs | 682 repairs | +147 | 22% |
| | Operations | 0 repairs | 0 repairs | +0 | 0% | 2 repairs | 0 repairs | +2 | 200% |
| | Other | 732 repairs | 1,130 repairs | -398 | -35% | 5,474 repairs | 6,219 repairs | -745 | -12% |
| | *TOTAL MAIN LEAKS* | *1,102 repairs* | *1,663 repairs* | -561 | -34% | 9,266 *repairs* | 9,935 *repairs* | -669 | *-7%* |
| Service Inventory | Copper | 207 svcs | 208 svcs | -1 | 0% | 165,339 svcs | 167,923 svcs | -2584 | -2% |
| | Plastic | 130,002 svcs | 126,474 svcs | +3528 | 3% | 1,657,859 svcs | 1,609,251 svcs | +48608 | 3% |
| | UP Bare Steel | 41,821 svcs | 43,858 svcs | -2037 | -5% | 287,305 svcs | 298,770 svcs | -11465 | -4% |
| | UP Coated Steel | 9,566 svcs | 9,591 svcs | -25 | 0% | 159,200 svcs | 163,421 svcs | -4221 | -3% |
| | CP Bare Steel | 0 svcs | 0 svcs | +0 | 0% | 12,948 svcs | 12,948 svcs | +0 | 0% |
| | CP Coated Steel | 10,150 svcs | 10,285 svcs | -135 | -1% | 180,804 svcs | 184,561 svcs | -3757 | -2% |
| | Other | 1,000 svcs | 1,085 svcs | -85 | -8% | 96,358 svcs | 101,426 svcs | -5068 | -5% |
| | Cast Iron | 185 svcs | 189 svcs | -4 | -2% | 3,355 svcs | 4,688 svcs | -1333 | -28% |
| | *TOTAL SERVICES* | *192,931 svcs* | *191,690 svcs* | +1241 | 0.6% | 2,563,168 *svcs* | 2,542,988 *svcs* | +20180 | *0.8%* |
| Service Leaks Excluding Above Ground Leak | Corrosion | 360 repairs | 296 repairs | +64 | 22% | 3,037 repairs | 3,076 repairs | -39 | -1% |
| | Natural Forces | 5 repairs | 4 repairs | +1 | 25% | 175 repairs | 177 repairs | -2 | -1% |
| | Excavation | 80 repairs | 67 repairs | +13 | 19% | 1,644 repairs | 1,502 repairs | +142 | 9% |
| | Other Outside Force | 1 repairs | 0 repairs | +1 | 100% | 92 repairs | 95 repairs | -3 | -3% |
| | Material or Welds | 15 repairs | 1 repairs | +14 | 100% | 165 repairs | 74 repairs | +91 | 123% |
| | Equipment | 79 repairs | 68 repairs | +11 | 16% | 1,974 repairs | 1,668 repairs | +306 | 18% |
| | Operations | 0 repairs | 0 repairs | +0 | 0% | 1 repairs | 2 repairs | -1 | 200% |
| | Other | 182 repairs | 131 repairs | +51 | 39% | 637 repairs | 455 repairs | +182 | 40% |
| | *TOTAL SVC LEAKS* | *722 repairs* | *567 repairs* | +155 | *27%* | 7,725 *repairs* | 7,049 *repairs* | +676 | *10%* |
| Service Leaks Including Above Ground Leak | Corrosion | 360 repairs | 300 repairs | +60 | 20% | 3,040 repairs | 3,085 repairs | -45 | -1% |
| | Natural Forces | 5 repairs | 8 repairs | -3 | -38% | 177 repairs | 186 repairs | -9 | -5% |
| | Excavation | 80 repairs | 67 repairs | +13 | 19% | 1,644 repairs | 1,502 repairs | +142 | 9% |
| | Other Outside Force | 2 repairs | 1 repairs | +1 | 100% | 103 repairs | 111 repairs | -8 | -7% |
| | Material or Welds | 15 repairs | 3 repairs | +12 | 100% | 166 repairs | 81 repairs | +85 | 105% |
| | Equipment | 79 repairs | 70 repairs | +9 | 13% | 1,985 repairs | 1,677 repairs | +308 | 18% |
| | Operations | 0 repairs | 0 repairs | +0 | 0% | 3 repairs | 5 repairs | -2 | 200% |
| | Other | 182 repairs | 148 repairs | +34 | 23% | 643 repairs | 473 repairs | +170 | 36% |
| | *TOTAL SVC LEAKS* | *723 repairs* | *597 repairs* | +126 | *21%* | 7,761 *repairs* | 7,120 *repairs* | +641 | *9%* |
| *TOTAL LEAK REPAIRS (Main & Svc)* Excluding Above Ground Leak | | ***1,824 repairs*** | ***2,230 repairs*** | -406 | ***-18%*** | 16,991 ***repairs*** | 16,984 ***repairs*** | +7 | 0% |
| *TOTAL LEAK REPAIRS (Main & Svc)* Including Above Ground Leak | | ***1,825 repairs*** | ***2,260 repairs*** | -435 | ***-19%*** | 17,027 ***repairs*** | 17,055 ***repairs*** | -28 | 0% |
| Workable Backlog As of 12/31 | | 26 leaks | 54 leaks | -28 | -52% | 219 leaks | 269 leaks | -50 | -19% |
| UFG (Net) | | 3.4% | 2.4% | 1.0% | | 2.5% | 2.3% | 0.2% | |
| Average Service Length (Ft) | | 66.09 ft | 66.00 ft | +0.09 | | 59 ft | 59 ft | +0.13 | |

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*Data Shown Includes Filed Revisions*

# 2013 SYSTEM INTEGRITY REPORT

## NATIONAL GRID-US
## 2013 GAS DISTRIBUTION SYSTEM STATISTICS

# 2013 SYSTEM INTEGRITY REPORT

## 2013 GAS DISTRIBUTION SYSTEM STATISTICS

| STATE | LEGACY | 2013 PIPELINE / CUSTOMER / SENDOUT STATISTICS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Miles of Main | # of Services | Avg Service Length (ft/svc) | Miles of Services | TOTAL Distribution Pipeline | Residential Customers | Commercial and Industrial Customers | TOTAL Customers | Sendout (MDT) |
| | NYC | 4,135 | 569,054 | 45 | 4,850 | 8,985 | 1,148,293 | 69,281 | 1,217,574 | 159,274 |
| | LI | 7,892 | 528,494 | 65 | 6,506 | 14,398 | 507,762 | 59,581 | 567,343 | 92,739 |
| | UPSTATE | 8,594 | 552,688 | 71 | 7,432 | 16,026 | 552,392 | 45,810 | 598,202 | 124,216 |
| ***ALL NEW YORK STATE*** | | ***20,621*** | ***1,650,236*** | ***60*** | ***18,788*** | ***39,409*** | ***2,208,447*** | ***174,672*** | ***2,383,119*** | ***376,229*** |
| | BOSTON | 6,324 | 490,951 | 46 | 4,285 | 10,609 | 571,205 | 51,865 | 623,070 | 111,211 |
| | ESSEX | 863 | 42,887 | 78 | 636 | 1,499 | 47,181 | 4,947 | 52,128 | 6,540 |
| | CAPE | 2,445 | 111,491 | 75 | 1,585 | 4,030 | 100,580 | 9,382 | 109,962 | 11,060 |
| | LOWELL | 1,389 | 74,672 | 72 | 1,017 | 2,406 | 81,807 | 9,190 | 90,997 | 14,552 |
| ***ALL MASSACHUSETTS*** | | ***11,021*** | ***720,001*** | ***55*** | ***7,522*** | ***18,544*** | ***800,773*** | ***75,384*** | ***876,157*** | ***143,362*** |
| RHODE ISLAND | | 3,179 | 192,931 | 66 | 2,415 | 5,593 | 234,561 | 24,499 | 259,060 | 39,493 |
| **TOTAL NGRID-US** | | **34,821** | **2,563,168** | **59** | **28,725** | **63,546** | **3,243,781** | **274,555** | **3,518,336** | **559,085** |

**CAUTION:**

**This chart is for comparative-illustrative purposes only. The data is not audited & many assumption have been made.**

Inventory data is from the CY 2013 Annual DOT/PHMSA Distribution Reports.
Customer data is from the Gas Customer Data base, Active Gas Accounts as of End of January 2014.
Sendout data is from the sendouts for the 12-month period ending 6/30/13, used to calculate UFG for the DOT Reports.

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# 2013 SYSTEM INTEGRITY REPORT

## 2013 GAS DISTRIBUTION SYSTEM STATISTICS

| STATE | LEGACY | PERCENTAGES OF NGRID-US SYSTEM | | | | | ASSET RATIOS | | | GAS CONSUMPTION RATIOS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | % of Main | % of Services | % of Distrib-ution Pipeline | % of Custo-mers | % of Sendout | Service Density (Svcs / Mile Main) | Meter Density (Custo-mers / Service) | Customer Density (Customers / Mile Total Pipeline) | Main Capacities Used (Sendout MDT / Mile Main) | Service Capacities Used (Sendout MDT/ Service) | Pipeline Capacities Used (Sendout MDT / Mile Total Pipe) | Customer Usage (Sendout MDT / Customer) |
| | NYC | 11.9% | 22.2% | 14.1% | 34.6% | 28.5% | 138 | 2.1 | 135.5 | 38.52 | 0.28 | 17.73 | 0.131 |
| | LI | 22.7% | 20.6% | 22.7% | 16.1% | 16.6% | 67 | 1.1 | 39.4 | 11.75 | 0.18 | 6.44 | 0.163 |
| | UPSTATE | 24.7% | 21.6% | 25.2% | 17.0% | 22.2% | 64 | 1.1 | 37.3 | 14.45 | 0.22 | 7.75 | 0.208 |
| ***ALL NEW YORK STATE*** | | ***59.2%*** | ***64.4%*** | ***62.0%*** | ***67.7%*** | ***67.3%*** | ***80*** | ***1.4*** | ***60.5*** | ***18.24*** | ***0.23*** | ***9.55*** | ***0.158*** |
| | BOSTON | 18.2% | 19.2% | 16.7% | 17.7% | 19.9% | 78 | 1.3 | 58.7 | 17.59 | 0.23 | 10.48 | 0.178 |
| | ESSEX | 2.5% | 1.7% | 2.4% | 1.5% | 1.2% | 50 | 1.2 | 34.8 | 7.58 | 0.15 | 4.36 | 0.125 |
| | CAPE | 7.0% | 4.3% | 6.3% | 3.1% | 2.0% | 46 | 1.0 | 27.3 | 4.52 | 0.10 | 2.74 | 0.101 |
| | LOWELL | 4.0% | 2.9% | 3.8% | 2.6% | 2.6% | 54 | 1.2 | 37.8 | 10.47 | 0.19 | 6.05 | 0.160 |
| ***ALL MASSACHUSETTS*** | | ***31.7%*** | ***28.1%*** | ***29.2%*** | ***24.9%*** | ***25.6%*** | ***65*** | ***1.2*** | ***47.2*** | ***13.01*** | ***0.20*** | ***7.73*** | ***0.164*** |
| RHODE ISLAND | | 9.1% | 7.5% | 8.8% | 7.4% | 7.1% | 61 | 1.3 | 46.3 | 12.42 | 0.20 | 7.06 | 0.152 |
| **TOTAL NGRID-US** | | **100%** | **100%** | **100%** | **100%** | **100%** | **74** | **1.4** | **55.4** | **16.06** | **0.22** | **8.80** | **0.159** |

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# 2013 SYSTEM INTEGRITY REPORT

## SEPARATE LEAK-PRONE PIPE ANALYSIS

| STATE | LEGACY | 2013 LEAK-PRONE PIPE INVENTORY | | | | | | LEAK-PRONE PIPE %'s | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Leak - Prone Main (miles) | % of TOTAL Main | Leak - Prone Services (#) | % of TOTAL Services | Miles of Leak - Prone Services | TOTAL Leak - Prone Pipe (in miles) | % of NG-US Leak - Prone Main (miles) | % of NG-US Leak - Prone Services (#) | % of NG-US TOTAL Leak - Prone Pipe |
| | NYC | 1,940 | 46.9% | 25,371 | 4.5% | 216 | 2,156 | 17.3% | 5.6% | 13.1% |
| | LI | 3,524 | 44.7% | 107,215 | 20.3% | 1,320 | 4,844 | 31.4% | 23.8% | 29.5% |
| | UPSTATE | 783 | 9.1% | 135,731 | 24.6% | 1,825 | 2,608 | 7.0% | 30.2% | 15.9% |
| ***ALL NEW YORK STATE*** | | ***6,247*** | ***30.3%*** | ***268,317*** | ***16.3%*** | ***3,361*** | ***9,608*** | ***55.7%*** | ***59.6%*** | ***58.4%*** |
| | BOSTON | 3,230 | 51.1% | 114,663 | 23.4% | 1,001 | 4,231 | 28.8% | 25.5% | 25.7% |
| | ESSEX | 103 | 12.0% | 4,965 | 11.6% | 74 | 177 | 0.9% | 1.1% | 1.1% |
| | CAPE | 121 | 4.9% | 4,584 | 4.1% | 65 | 186 | 1.1% | 1.0% | 1.1% |
| | LOWELL | 181 | 13.0% | 5,759 | 7.7% | 78 | 259 | 1.6% | 1.3% | 1.6% |
| ***ALL MASSACHUSETTS*** | | ***3,634*** | ***33.0%*** | ***129,971*** | ***18.1%*** | ***1,218*** | ***4,852*** | ***32.4%*** | ***28.9%*** | ***29.5%*** |
| RHODE ISLAND | | 1,339 | 42.1% | 51,572 | 26.7% | 646 | 1,984 | 11.9% | 11.5% | 12.1% |
| **TOTAL NGRID-US** | | **11,220** | **32.2%** | **449,860** | **17.6%** | **5,225** | **16,445** | **100%** | **100%** | **100%** |

**NOTES:**
**Leak-Prone Main includes Cast Iron/Wrought Iron, Unprotected Steel and Other Material.**
**Leak-Prone Service includes Cast Iron/Wrought Iron and Unprotected Steel.**

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# 2013 SYSTEM INTEGRITY REPORT

## LEAK AND REPAIR ANALYSIS

| STATE | LEGACY | 2013 LEAK DATA | | | | LEAK RATE RATIOS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TOTAL Leak Receipts (Main & Service) | TOTAL Leak Repairs (Main & Service) | Year-End Workable Leak Backlog | TOTAL Repairs + Workable Leaks | TOTAL Leak Receipts / Mile TOTAL Pipe | TOTAL Leak Receipts / Mile Leak-Prone Pipe | TOTAL Leak Repairs / Mile TOTAL Pipe | TOTAL Leak Repairs / Mile Leak-Prone Pipe | Repairs + Workables / Mile TOTAL Pipe | Repairs + Workable / Mile Leak-Prone Pipe |
| | NYC | 3,332 | 3,223 | 7 | 3,230 | 0.4 | 1.5 | 0.4 | 1.5 | 0.4 | 1.5 |
| | LI | 3,527 | 2,844 | 10 | 2,854 | 0.2 | 0.7 | 0.2 | 0.6 | 0.2 | 0.6 |
| | UPSTATE | 1,205 | 1,498 | 0 | 1,498 | 0.1 | 0.5 | 0.1 | 0.6 | 0.1 | 0.6 |
| ***ALL NEW YORK STATE*** | | ***8,064*** | ***7,565*** | ***17*** | ***7,582*** | ***0.2*** | ***0.8*** | ***0.2*** | ***0.8*** | ***0.2*** | ***0.8*** |
| | BOSTON | 5,606 | 6,658 | 170 | 6,828 | 0.5 | 1.3 | 0.6 | 1.6 | 0.6 | 1.6 |
| | ESSEX | 190 | 225 | 2 | 227 | 0.1 | 1.1 | 0.2 | 1.3 | 0.2 | 1.3 |
| | CAPE | 375 | 480 | 1 | 481 | 0.1 | 2.0 | 0.1 | 2.6 | 0.1 | 2.6 |
| | LOWELL | 253 | 239 | 3 | 242 | 0.1 | 1.0 | 0.1 | 0.9 | 0.1 | 0.9 |
| ***ALL MASSACHUSETTS*** | | ***6,424*** | ***7,602*** | ***176*** | ***7,778*** | ***0.3*** | ***1.3*** | ***0.4*** | ***1.6*** | ***0.4*** | ***1.6*** |
| RHODE ISLAND | | 2,252 | 1,824 | 26 | 1,850 | 0.4 | 1.1 | 0.3 | 0.9 | 0.3 | 0.9 |
| **TOTAL NGRID-US** | | **16,740** | **16,991** | **219** | **17,210** | **0.3** | **1.0** | **0.3** | **1.0** | **0.3** | **1.0** |

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**NOTES:**
**TOTAL Leak Repairs (Main & Service) include Excavation Leaks.**
**TOTAL Leak Repairs (Main & Service) exclude Above Ground Leaks.**

# 2013 SYSTEM INTEGRITY REPORT

## 2013 SYSTEM INTEGRITY REPORT ANALYSIS (FINDINGS AND EXPLANATIONS)

# 2013 SYSTEM INTEGRITY REPORT

## 2013 SYSTEM INTEGRITY REPORT ANALYSIS FINDINGS AND EXPLANATIONS

**FINDING 4:**

**NYC and RI has been experiencing a sustained increase in Type 3 leak backlogs.**

This issue was actively investigated in 2013 and found that Type-3 Leak Receipts went up and Repairs went down significantly both in NYC and RI since 2004. Also elimination of Type-3 leaks without repair is going down consistently in RI. Distribution Engineering is in process of following up with the departments involved to capture and close out these Type-3 leaks properly and will actively monitor it in 2014.

# 2013 SYSTEM INTEGRITY REPORT

## 2013 SYSTEM INTEGRITY REPORT ANALYSIS FINDINGS AND EXPLANATIONS

**FINDING 7:**

**RI has an unusually high plastic main leak rate, compared to other regions.**

An investigation has found that the leaking material is not captured on the repair work order and therefore determined by using the closest facility in SmallWorld. The rate decreased in 2012 due to data validation by Distribution Engineering. To further resolve this issue, "Leaking Material" and "Leak Cause" fields were added to the work order form in 2013 and found significant improvement in data quality during quarterly data validation.

# 2013 SYSTEM INTEGRITY REPORT

## 2013 SYSTEM INTEGRITY REPORT ANALYSIS FINDINGS AND EXPLANATIONS

**FINDING 8:**

**NGRID has experienced an increase in Cast Iron Main Breaks in all regions in 2013.**

In 2013, CI main breaks and rates increased in every region and this is believed to be weather dependent. Gas Distribution Engineering did a deep dive into the details of the Cast Iron main break data and found 40% increase in 4" CI main breaks and 85% increase in 6" CI main breaks in 2013. A geographical analysis was also performed to see whether any specific location is experiencing extreme CI main breaks or not and was communicated this result with Main and Service Replacement group to evaluate those broken segments and address any systemic issue.

# 2013 SYSTEM INTEGRITY REPORT

## 2013 SYSTEM INTEGRITY REPORT ANALYSIS FINDINGS AND EXPLANATIONS

**FINDING 9:**

**RI experienced an increase in Main Corrosion leaks in 2012.**

The 2012 increase shown is not an actual increase in main corrosion leaks, but data correction that resulted from Distribution Engineering's scrubbing of RI leak reporting data. It was found that a significant number of leaks that were reported on plastic mains were actually corrosion leaks on steel. Distribution Engineering has monitored this in 2013 and found corrosion leak repairs and rates decreased over 2012 due to continuous data scrubbing/validation process and also the implementation of new work order form and leak editor screen.

# 2013 SYSTEM INTEGRITY REPORT

## 2013 SYSTEM INTEGRITY REPORT ANALYSIS FINDINGS AND EXPLANATIONS

**FINDING 12:**

**RI has experienced increased and erratic service leak rates over the last few years.**

An investigation has determined that service leak repair counts are incorrectly reported for the past few years. Some Type 3 leaks are being closed out (either for no follow up gas reads or in conjunction with main replacement) and reported as “Repaired-Other”. We are still in the process of correcting this data anomaly.

In addition to that, RI has received more Type-1 Leaks in 2013 than in 2012 and repaired most of them. Most of the leaks were on bare steel due to “Corrosion” and “Other” leak cause. Due to more accurate reporting and more extensive data scrubbing, corrosion leak repair rates on Bare steel appears to be rising and Plastic leak repair rate is falling down. In the past, actual corrosion repair counts were obscured by paperwork that was not filled correctly or information not being transferred to Small World correctly. Higher corrosion leak counts now merely reflect reporting of actual work completed and recorded more clearly on a revised work order form. Remaining bare steel services continue to leak at a much higher rate and should continue to remain a priority for replacement.

# 2013 SYSTEM INTEGRITY REPORT

## 2013 SYSTEM INTEGRITY REPORT ANALYSIS FINDINGS AND EXPLANATIONS

**FINDING 13:**

**RI 2013 Cast Iron Service leak repair data verification results:**

**For 2013**

RI leak repair data shows 7 CI service leak repairs, causing a very high CI leak rate. Distribution Engineering scrubbed all of these records and found those seven(7) "CI service" leak repairs were actually:

- One (1) equipment repair (svc tap) on PE svc off a CI main
- Two (2) repairs that were actually CI main repairs
- Four (4) repairs that were actually BS svc repairs.

These services were tied to CI mains and Smallworld had these repairs tied to services or service connections at CI mains. The new work order form and leak editor screen implemented in Q3 of 2013 should help to reduce this type of error in the future.

END of SLIDES.

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PUC 2-7

Request:

Please explain in detail how the Gas ISR program has decreased risks or improved the gas distribution system in Rhode Island.

Response:

Since implementation of the first annual Gas Infrastructure, Safety, and Reliability (ISR) plan in 2011, the Company's work pursuant to the programs included in its ISR plans has significantly improved the Rhode Island gas distribution system. The most pronounced benefits are primarily attributable to the accelerated replacement of leak prone gas mains and services. Please see National Grid's "Trend Based System Integrity Analysis" (System Integrity Trend Analysis) provided as Attachment PUC 2-6 to the Company's response to PUC 2-6. This trend-based report reflects changes over a ten-year period and provides for insight into long-term trends.

One key factor of risk associated with the gas distribution system is measured through total leak receipts as trended on page eight of the System Integrity Trend Analysis. The trend of leak receipts reflects an upward trend between 2004 through 2009, followed by a downward trend between 2009 through 2013, the time period covered by the Company's Accelerated Replacement Program (ARP) and Gas ISR plans. Specifically, leak receipts in 2013 have been reduced by 38% from their peak in 2009.

A second measure of risk is identified through the trending of the year-end workable leak backlog reflected on page 16 of the System Integrity Trend Analysis. A lower workable leak backlog reflects the lower risk associated with the population of leaks that pose potential hazards. The reduction of this backlog and the continued ability to maintain reduced levels entering the winter period have been enabled through the replacement of mains and services and reduction of system leaks.

Another trend that reflects the reduced risk is main leak repairs performed on an annual basis as found on page 36 of the System Integrity Analysis. Similar to receipts, main leak repairs reflects an increasing trend between 2004 and 2009, followed by a significant reduction from 2009 through 2013. As shown in the System Integrity Analysis, main leak repairs have decreased by 59% from their peak in 2009.

In total, the downward trend in leak receipts, leak backlog, and leak repairs clearly demonstrates an improvement in the integrity of the gas distribution system in Rhode Island and a significant reduction in risk to the public.

Prepared by or under the supervision of: David G. Iseler

PUC 2-7, page 2

Finally, investment in capital upgrades through the ARP and Gas ISR plans of the Company's liquefied natural gas plants, take stations, and regulator stations have provided for improved continuous service to the broad customer base in Rhode Island. In addition, system and station modifications have provided for the safe and reliable operation of critical infrastructure at the stations through incorporation of modern safety and reliability components and systems. All of these investments have improved the gas distribution system, reduced leak risk, and in turn, increased public safety in Rhode Island.

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PUC 2-8

Request:

Please provide a list of soft off closures for gas that are greater than one year and the total amount of dollars associated with these accounts.

Response:

For clarity in this response, the Company wishes to explain that the Company tracks soft-off closures by premises and meter, not by account. Once a meter becomes "inactive" through a soft-off closure, there is no longer a customer account associated with that meter. Without a customer account (and applicable rate), the Company's billing system does not calculate an associated dollar amount.

Please see Attachment PUC 2-8-1, which provides a listing of inactive soft-off gas meters with metered usage that have been in a soft-off status for over 12 months (based on a reading-from date prior to 3/1/2014) that remained open at the time of preparing this response. In order to approximate the value of the associated gas, the Company applied the current residential heating gas cost recovery (GCR) rate per therm of $0.6871 and the current BTU conversion factor of 1.029. Use of this GCR rate and BTU conversion factor is consistent with filings made in the 2012-2013 soft-off pilot study.

Please see Attachment PUC 2-8-2, which provides a listing of inactive soft-off gas meters without metered usage (readings could not be obtained) that have been in a soft-off status for over 12 months (based on a last reading date before 3/1/2014) that remained open at the time of preparing this response. The Company's billing system does not create estimated usage values for inactive meters, and thus this response has not applied a value to that associated gas.

Prepared by or under the supervision of: Jeffrey P. Martin

| PREMISE | METER | SERVICE | READING FROM | READING TO | CONSUMPTION | RDG ROWS | THERM FACTOR | THERMS | RATE | VALUE |
|---|---|---|---|---|---|---|---|---|---|---|
| [redacted] | | Gas | 1/3/2013 | 7/30/2014 | 815 | 17 | 1.029 | 839 | $0.6871 | $576 |
| | | Gas | 7/22/2006 | 1/30/2012 | 28 | 1 | 1.029 | 29 | $0.6871 | $20 |
| | | Gas | 2/27/2013 | 12/29/2014 | 6 | 6 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 5/1/2013 | 1/30/2015 | 691 | 20 | 1.029 | 711 | $0.6871 | $489 |
| | | Gas | 4/25/2013 | 1/30/2015 | 167 | 16 | 1.029 | 172 | $0.6871 | $118 |
| | | Gas | 2/27/2014 | 1/30/2015 | 186 | 11 | 1.029 | 191 | $0.6871 | $132 |
| | | Gas | 10/9/2013 | 1/30/2015 | 54 | 15 | 1.029 | 56 | $0.6871 | $38 |
| | | Gas | 5/1/2012 | 3/27/2013 | 61 | 11 | 1.029 | 63 | $0.6871 | $43 |
| | | Gas | 1/15/2014 | 4/28/2014 | 227 | 4 | 1.029 | 234 | $0.6871 | $160 |
| | | Gas | 10/29/2012 | 12/31/2014 | 16 | 15 | 1.029 | 16 | $0.6871 | $11 |
| | | Gas | 7/25/2007 | 2/2/2015 | 350 | 35 | 1.029 | 360 | $0.6871 | $247 |
| | | Gas | 7/31/2013 | 12/1/2014 | 32 | 15 | 1.029 | 33 | $0.6871 | $23 |
| | | Gas | 8/31/2012 | 2/2/2015 | 17 | 14 | 1.029 | 17 | $0.6871 | $12 |
| | | Gas | 7/1/2013 | 2/2/2015 | 30 | 17 | 1.029 | 31 | $0.6871 | $21 |
| | | Gas | 9/3/2013 | 12/2/2014 | 4 | 4 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 8/8/2013 | 2/3/2015 | 1,106 | 17 | 1.029 | 1,138 | $0.6871 | $782 |
| | | Gas | 12/4/2012 | 2/4/2015 | 356 | 12 | 1.029 | 366 | $0.6871 | $252 |
| | | Gas | 1/4/2014 | 3/4/2014 | 13 | 2 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 8/6/2013 | 2/6/2015 | 23 | 6 | 1.029 | 24 | $0.6871 | $16 |
| | | Gas | 7/3/2013 | 3/5/2014 | 8 | 1 | 1.029 | 8 | $0.6871 | $6 |
| | | Gas | 12/1/2012 | 2/5/2015 | 2,287 | 15 | 1.029 | 2,353 | $0.6871 | $1,617 |
| | | Gas | 2/25/2014 | 2/5/2015 | 180 | 11 | 1.029 | 185 | $0.6871 | $127 |
| | | Gas | 7/19/2013 | 2/5/2015 | 436 | 18 | 1.029 | 449 | $0.6871 | $308 |
| | | Gas | 1/2/2014 | 2/5/2015 | 393 | 13 | 1.029 | 404 | $0.6871 | $278 |
| | | Gas | 4/9/2013 | 8/6/2013 | 100 | 4 | 1.029 | 103 | $0.6871 | $71 |
| | | Gas | 12/4/2013 | 2/5/2015 | 6 | 6 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 1/15/2013 | 2/5/2013 | 2 | 1 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 7/8/2013 | 12/5/2013 | 44 | 5 | 1.029 | 45 | $0.6871 | $31 |
| | | Gas | 7/17/2013 | 2/7/2015 | 592 | 19 | 1.029 | 609 | $0.6871 | $419 |
| | | Gas | 5/22/2012 | 1/8/2015 | 6 | 3 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 9/27/2012 | 2/7/2015 | 347 | 28 | 1.029 | 357 | $0.6871 | $245 |
| | | Gas | 1/18/2012 | 1/18/2012 | 274 | 37 | 1.029 | 282 | $0.6871 | $194 |
| | | Gas | 8/1/2012 | 12/10/2012 | 172 | 5 | 1.029 | 177 | $0.6871 | $122 |
| | | Gas | 12/11/2013 | 2/11/2015 | 1,751 | 14 | 1.029 | 1,802 | $0.6871 | $1,238 |
| | | Gas | 4/8/2013 | 2/10/2015 | 2,132 | 16 | 1.029 | 2,194 | $0.6871 | $1,507 |
| | | Gas | 10/8/2013 | 2/10/2015 | 1,152 | 16 | 1.029 | 1,185 | $0.6871 | $814 |
| | | Gas | 4/22/2013 | 2/11/2015 | 83 | 4 | 1.029 | 85 | $0.6871 | $59 |
| | | Gas | 6/10/2013 | 12/9/2014 | 14 | 14 | 1.029 | 14 | $0.6871 | $10 |
| | | Gas | 3/10/2013 | 2/11/2015 | 17 | 17 | 1.029 | 17 | $0.6871 | $12 |
| | | Gas | 1/11/2013 | 2/11/2015 | 48 | 21 | 1.029 | 49 | $0.6871 | $34 |
| | | Gas | 2/8/2012 | 8/8/2014 | 13 | 12 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 1/6/2014 | 2/12/2015 | 76 | 14 | 1.029 | 78 | $0.6871 | $54 |
| | | Gas | 12/18/2012 | 1/13/2015 | 588 | 20 | 1.029 | 605 | $0.6871 | $416 |
| | | Gas | 1/11/2012 | 2/12/2015 | 168 | 36 | 1.029 | 173 | $0.6871 | $119 |
| | | Gas | 2/21/2014 | 2/12/2015 | 31 | 11 | 1.029 | 32 | $0.6871 | $22 |
| | | Gas | 4/15/2013 | 2/12/2015 | 170 | 22 | 1.029 | 175 | $0.6871 | $120 |
| | | Gas | 10/8/2012 | 10/11/2012 | 7 | 1 | 1.029 | 7 | $0.6871 | $5 |
| | | Gas | 1/11/2012 | 2/12/2015 | 478 | 37 | 1.029 | 492 | $0.6871 | $338 |
| | | Gas | 12/23/2013 | 2/12/2015 | 187 | 14 | 1.029 | 192 | $0.6871 | $132 |
| | | Gas | 8/24/2001 | 2/11/2015 | 30 | 22 | 1.029 | 31 | $0.6871 | $21 |
| | | Gas | 5/10/2013 | 2/10/2014 | 72 | 8 | 1.029 | 74 | $0.6871 | $51 |
| | | Gas | 1/14/2014 | 2/13/2015 | 574 | 13 | 1.029 | 591 | $0.6871 | $406 |
| | | Gas | 8/5/2013 | 2/13/2015 | 1,667 | 19 | 1.029 | 1,715 | $0.6871 | $1,179 |
| | | Gas | 11/8/2013 | 2/13/2015 | 615 | 15 | 1.029 | 633 | $0.6871 | $435 |
| | | Gas | 10/21/2013 | 2/12/2015 | 1,284 | 12 | 1.029 | 1,321 | $0.6871 | $908 |
| | | Gas | 10/14/2013 | 5/14/2014 | 4 | 4 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 10/13/2013 | 11/12/2014 | 532 | 10 | 1.029 | 547 | $0.6871 | $376 |
| | | Gas | 1/3/2014 | 2/12/2014 | 32 | 1 | 1.029 | 33 | $0.6871 | $23 |
| | | Gas | 6/4/2013 | 2/13/2015 | 962 | 19 | 1.029 | 990 | $0.6871 | $680 |
| | | Gas | 4/12/2012 | 2/13/2015 | 288 | 34 | 1.029 | 296 | $0.6871 | $204 |
| | | Gas | 1/31/2014 | 2/13/2015 | 759 | 13 | 1.029 | 781 | $0.6871 | $537 |
| | | Gas | 11/12/2013 | 2/12/2015 | 405 | 9 | 1.029 | 417 | $0.6871 | $286 |
| | | Gas | 6/13/2013 | 6/10/2014 | 47 | 14 | 1.029 | 48 | $0.6871 | $33 |
| | | Gas | 6/13/2012 | 2/12/2015 | 29 | 23 | 1.029 | 30 | $0.6871 | $21 |
| | | Gas | 11/4/2013 | 2/13/2015 | 617 | 11 | 1.029 | 635 | $0.6871 | $436 |
| | | Gas | 2/13/2014 | 2/14/2015 | 23 | 12 | 1.029 | 24 | $0.6871 | $16 |
| | | Gas | 10/15/2013 | 2/14/2015 | 453 | 16 | 1.029 | 466 | $0.6871 | $320 |
| | | Gas | 5/16/2013 | 5/20/2014 | 11 | 5 | 1.029 | 11 | $0.6871 | $8 |
| | | Gas | 3/30/2012 | 2/17/2015 | 352 | 14 | 1.029 | 362 | $0.6871 | $249 |
| | | Gas | 12/15/2013 | 4/17/2014 | 9 | 4 | 1.029 | 9 | $0.6871 | $6 |
| | | Gas | 1/18/2012 | 2/15/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 8/2/2013 | 10/18/2013 | 10 | 3 | 1.029 | 10 | $0.6871 | $7 |
| | | Gas | 12/17/2012 | 2/20/2015 | 1,800 | 25 | 1.029 | 1,852 | $0.6871 | $1,273 |

| PREMISE | METER | SERVICE | READING FROM | READING TO | CONSUMPTION | RDG ROWS | THERM FACTOR | THERMS | RATE | VALUE |
|---|---|---|---|---|---|---|---|---|---|---|
| [redacted] | | Gas | 3/30/2013 | 2/18/2015 | 317 | 22 | 1.029 | 326 | $0.6871 | $224 |
| | | Gas | 9/19/2013 | 2/18/2015 | 2,105 | 16 | 1.029 | 2,166 | $0.6871 | $1,488 |
| | | Gas | 12/16/2013 | 2/18/2015 | 11 | 6 | 1.029 | 11 | $0.6871 | $8 |
| | | Gas | 3/12/2013 | 2/18/2015 | 837 | 22 | 1.029 | 861 | $0.6871 | $592 |
| | | Gas | 8/20/2013 | 9/17/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 9/1/2013 | 2/17/2015 | 1,037 | 17 | 1.029 | 1,067 | $0.6871 | $733 |
| | | Gas | 11/14/2012 | 12/17/2014 | 4 | 4 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 1/18/2012 | 2/18/2015 | 603 | 35 | 1.029 | 620 | $0.6871 | $426 |
| | | Gas | 7/23/2013 | 11/14/2013 | 19 | 4 | 1.029 | 20 | $0.6871 | $13 |
| | | Gas | 4/16/2013 | 2/20/2015 | 100 | 21 | 1.029 | 103 | $0.6871 | $71 |
| | | Gas | 1/31/2014 | 1/20/2015 | 118 | 11 | 1.029 | 121 | $0.6871 | $83 |
| | | Gas | 11/29/2013 | 12/19/2014 | 27 | 5 | 1.029 | 28 | $0.6871 | $19 |
| | | Gas | 10/19/2013 | 2/19/2014 | 38 | 4 | 1.029 | 39 | $0.6871 | $27 |
| | | Gas | 6/13/2013 | 8/23/2013 | 15 | 3 | 1.029 | 15 | $0.6871 | $11 |
| | | Gas | 11/20/2013 | 12/21/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 4/22/2013 | 1/24/2014 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 12/21/2013 | 1/24/2014 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 1/14/2013 | 1/23/2014 | 292 | 12 | 1.029 | 300 | $0.6871 | $206 |
| | | Gas | 11/27/2013 | 4/23/2014 | 36 | 5 | 1.029 | 37 | $0.6871 | $25 |
| | | Gas | 2/26/2014 | 1/22/2015 | 93 | 10 | 1.029 | 96 | $0.6871 | $66 |
| | | Gas | 3/22/2011 | 5/22/2013 | 7 | 4 | 1.029 | 7 | $0.6871 | $5 |
| | | Gas | 12/22/2011 | 1/22/2015 | 61 | 6 | 1.029 | 63 | $0.6871 | $43 |
| | | Gas | 2/7/2012 | 12/22/2014 | 2,170 | 32 | 1.029 | 2,233 | $0.6871 | $1,534 |
| | | Gas | 2/21/2014 | 1/22/2015 | 16 | 9 | 1.029 | 16 | $0.6871 | $11 |
| | | Gas | 11/20/2013 | 12/20/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 8/2/2013 | 1/22/2015 | 462 | 17 | 1.029 | 475 | $0.6871 | $327 |
| | | Gas | 3/27/2012 | 1/23/2014 | 19 | 4 | 1.029 | 20 | $0.6871 | $13 |
| | | Gas | 1/23/2012 | 7/24/2013 | 11 | 11 | 1.029 | 11 | $0.6871 | $8 |
| | | Gas | 6/18/2013 | 3/25/2014 | 101 | 10 | 1.029 | 104 | $0.6871 | $71 |
| | | Gas | 5/13/2013 | 6/24/2013 | 13 | 1 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 2/1/2014 | 4/25/2014 | 8 | 3 | 1.029 | 8 | $0.6871 | $6 |
| | | Gas | 10/11/2012 | 10/24/2012 | 3 | 1 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 8/26/2013 | 1/29/2015 | 66 | 17 | 1.029 | 68 | $0.6871 | $47 |
| | | Gas | 1/24/2013 | 2/25/2013 | 7 | 2 | 1.029 | 7 | $0.6871 | $5 |
| | | Gas | 4/25/2013 | 5/29/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 1/6/2014 | 6/27/2014 | 109 | 6 | 1.029 | 112 | $0.6871 | $77 |
| | | Gas | 5/30/2013 | 1/30/2015 | 2,856 | 19 | 1.029 | 2,939 | $0.6871 | $2,019 |
| | | Gas | 12/16/2013 | 1/30/2015 | 67 | 14 | 1.029 | 69 | $0.6871 | $47 |
| | | Gas | 3/21/2013 | 12/30/2014 | 97 | 5 | 1.029 | 100 | $0.6871 | $69 |
| | | Gas | 1/26/2012 | 2/27/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 4/28/2013 | 1/29/2015 | 10 | 8 | 1.029 | 10 | $0.6871 | $7 |
| | | Gas | 9/3/2013 | 1/30/2015 | 327 | 16 | 1.029 | 336 | $0.6871 | $231 |
| | | Gas | 1/4/2013 | 1/30/2015 | 10 | 8 | 1.029 | 10 | $0.6871 | $7 |
| | | Gas | 12/28/2011 | 1/30/2015 | 340 | 8 | 1.029 | 350 | $0.6871 | $240 |
| | | Gas | 7/8/2013 | 1/30/2015 | 84 | 18 | 1.029 | 86 | $0.6871 | $59 |
| | | Gas | 5/30/2012 | 11/28/2012 | 94 | 6 | 1.029 | 97 | $0.6871 | $66 |
| | | Gas | 5/15/2013 | 5/30/2014 | 108 | 12 | 1.029 | 111 | $0.6871 | $76 |
| | | Gas | 9/28/2012 | 2/1/2015 | 12 | 12 | 1.029 | 12 | $0.6871 | $8 |
| | | Gas | 1/12/2012 | 2/1/2015 | 31 | 26 | 1.029 | 32 | $0.6871 | $22 |
| | | Gas | 5/31/2013 | 10/31/2013 | 21 | 5 | 1.029 | 22 | $0.6871 | $15 |
| | | Gas | 8/30/2013 | 12/1/2014 | 9 | 8 | 1.029 | 9 | $0.6871 | $6 |
| | | Gas | 8/31/2012 | 10/1/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 12/31/2011 | 5/31/2012 | 34 | 5 | 1.029 | 35 | $0.6871 | $24 |
| | | Gas | 5/1/2012 | 6/2/2014 | 768 | 13 | 1.029 | 790 | $0.6871 | $543 |
| | | Gas | 3/29/2013 | 5/1/2013 | 11 | 1 | 1.029 | 11 | $0.6871 | $8 |
| | | Gas | 10/1/2012 | 2/28/2013 | 426 | 4 | 1.029 | 438 | $0.6871 | $301 |
| | | Gas | 8/14/2013 | 9/3/2013 | 6 | 1 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 12/3/2013 | 1/6/2014 | 13 | 1 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 12/26/2013 | 2/3/2014 | 48 | 2 | 1.029 | 49 | $0.6871 | $34 |
| | | Gas | 7/29/2013 | 2/5/2015 | 314 | 7 | 1.029 | 323 | $0.6871 | $222 |
| | | Gas | 6/5/2013 | 2/4/2014 | 57 | 7 | 1.029 | 59 | $0.6871 | $40 |
| | | Gas | 1/30/2007 | 2/2/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 3/25/2013 | 8/5/2013 | 128 | 4 | 1.029 | 132 | $0.6871 | $90 |
| | | Gas | 10/2/2013 | 2/5/2015 | 233 | 15 | 1.029 | 240 | $0.6871 | $165 |
| | | Gas | 12/23/2013 | 2/5/2015 | 628 | 6 | 1.029 | 646 | $0.6871 | $444 |
| | | Gas | 9/20/2012 | 12/4/2012 | 25 | 3 | 1.029 | 26 | $0.6871 | $18 |
| | | Gas | 5/6/2013 | 12/4/2014 | 1,751 | 18 | 1.029 | 1,802 | $0.6871 | $1,238 |
| | | Gas | 2/2/2012 | 3/4/2014 | 5 | 5 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 12/16/2002 | 8/6/2012 | 21 | 5 | 1.029 | 22 | $0.6871 | $15 |
| | | Gas | 1/10/2014 | 4/4/2014 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 5/3/2012 | 1/6/2015 | 24 | 23 | 1.029 | 25 | $0.6871 | $17 |
| | | Gas | 10/4/2013 | 2/6/2015 | 231 | 12 | 1.029 | 238 | $0.6871 | $163 |
| | | Gas | 7/9/2013 | 2/7/2015 | 680 | 19 | 1.029 | 700 | $0.6871 | $481 |

| PREMISE | METER | SERVICE | READING FROM | READING TO | CONSUMPTION | RDG ROWS | THERM FACTOR | THERMS | RATE | VALUE |
|---|---|---|---|---|---|---|---|---|---|---|
| [redacted] | | Gas | 8/31/2013 | 2/7/2015 | 182 | 17 | 1.029 | 187 | $0.6871 | $129 |
| | | Gas | 5/13/2013 | 2/7/2015 | 816 | 21 | 1.029 | 840 | $0.6871 | $577 |
| | | Gas | 1/8/2013 | 8/7/2014 | 72 | 19 | 1.029 | 74 | $0.6871 | $51 |
| | | Gas | 10/24/2013 | 2/7/2015 | 109 | 16 | 1.029 | 112 | $0.6871 | $77 |
| | | Gas | 1/23/2014 | 2/7/2015 | 236 | 11 | 1.029 | 243 | $0.6871 | $167 |
| | | Gas | 2/5/2014 | 2/7/2015 | 2,181 | 12 | 1.029 | 2,244 | $0.6871 | $1,542 |
| | | Gas | 1/30/2012 | 2/7/2015 | 25 | 13 | 1.029 | 26 | $0.6871 | $18 |
| | | Gas | 1/6/2012 | 1/8/2013 | 40 | 12 | 1.029 | 41 | $0.6871 | $28 |
| | | Gas | 10/22/2013 | 2/7/2015 | 453 | 16 | 1.029 | 466 | $0.6871 | $320 |
| | | Gas | 8/8/2013 | 10/7/2013 | 33 | 2 | 1.029 | 34 | $0.6871 | $23 |
| | | Gas | 2/2/2007 | 2/6/2012 | 0 | 1 | 1.029 | 0 | $0.6871 | $0 |
| | | Gas | 1/10/2012 | 4/10/2012 | 16 | 3 | 1.029 | 16 | $0.6871 | $11 |
| | | Gas | 6/3/2013 | 2/10/2015 | 3,322 | 21 | 1.029 | 3,418 | $0.6871 | $2,349 |
| | | Gas | 6/3/2013 | 7/10/2013 | 4 | 1 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 1/3/2014 | 2/10/2015 | 80 | 14 | 1.029 | 82 | $0.6871 | $57 |
| | | Gas | 7/19/2013 | 7/13/2014 | 38 | 4 | 1.029 | 39 | $0.6871 | $27 |
| | | Gas | 1/24/2014 | 2/11/2015 | 71 | 12 | 1.029 | 73 | $0.6871 | $50 |
| | | Gas | 7/22/2013 | 2/12/2015 | 1,250 | 19 | 1.029 | 1,286 | $0.6871 | $884 |
| | | Gas | 4/25/2013 | 2/11/2015 | 56 | 22 | 1.029 | 58 | $0.6871 | $40 |
| | | Gas | 7/8/2013 | 2/12/2015 | 81 | 19 | 1.029 | 83 | $0.6871 | $57 |
| | | Gas | 12/11/2011 | 2/12/2015 | 1,625 | 26 | 1.029 | 1,672 | $0.6871 | $1,149 |
| | | Gas | 12/2/2013 | 1/14/2014 | 5 | 2 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 12/11/2013 | 2/11/2014 | 57 | 2 | 1.029 | 59 | $0.6871 | $40 |
| | | Gas | 7/11/2013 | 2/12/2015 | 1,201 | 19 | 1.029 | 1,236 | $0.6871 | $849 |
| | | Gas | 11/9/2012 | 1/13/2015 | 17 | 15 | 1.029 | 17 | $0.6871 | $12 |
| | | Gas | 1/11/2012 | 3/13/2013 | 3 | 2 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 12/27/2012 | 1/14/2013 | 6 | 1 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 8/14/2012 | 3/12/2013 | 8 | 7 | 1.029 | 8 | $0.6871 | $6 |
| | | Gas | 2/14/2013 | 11/12/2014 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 4/9/2013 | 2/13/2015 | 630 | 22 | 1.029 | 648 | $0.6871 | $445 |
| | | Gas | 11/27/2013 | 2/13/2015 | 1,707 | 14 | 1.029 | 1,757 | $0.6871 | $1,207 |
| | | Gas | 9/20/2013 | 11/12/2013 | 18 | 2 | 1.029 | 19 | $0.6871 | $13 |
| | | Gas | 6/12/2012 | 3/12/2013 | 25 | 9 | 1.029 | 26 | $0.6871 | $18 |
| | | Gas | 11/9/2012 | 6/12/2013 | 57 | 7 | 1.029 | 59 | $0.6871 | $40 |
| | | Gas | 2/6/2013 | 12/14/2014 | 44 | 4 | 1.029 | 45 | $0.6871 | $31 |
| | | Gas | 1/12/2012 | 2/12/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 10/27/2012 | 2/14/2015 | 428 | 4 | 1.029 | 440 | $0.6871 | $303 |
| | | Gas | 11/12/2001 | 2/14/2015 | 619 | 14 | 1.029 | 637 | $0.6871 | $438 |
| | | Gas | 6/18/2013 | 5/16/2014 | 91 | 10 | 1.029 | 94 | $0.6871 | $64 |
| | | Gas | 4/30/2007 | 2/14/2015 | 62 | 23 | 1.029 | 64 | $0.6871 | $44 |
| | | Gas | 11/25/2013 | 2/14/2015 | 149 | 15 | 1.029 | 153 | $0.6871 | $105 |
| | | Gas | 12/16/2013 | 2/18/2015 | 92 | 13 | 1.029 | 95 | $0.6871 | $65 |
| | | Gas | 9/1/2012 | 2/19/2013 | 55 | 6 | 1.029 | 57 | $0.6871 | $39 |
| | | Gas | 12/6/2011 | 12/18/2014 | 318 | 1 | 1.029 | 327 | $0.6871 | $225 |
| | | Gas | 9/17/2012 | 8/18/2014 | 203 | 22 | 1.029 | 209 | $0.6871 | $144 |
| | | Gas | 4/12/2012 | 5/18/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 7/30/2013 | 4/17/2014 | 241 | 9 | 1.029 | 248 | $0.6871 | $170 |
| | | Gas | 8/5/2013 | 2/20/2015 | 459 | 18 | 1.029 | 472 | $0.6871 | $325 |
| | | Gas | 11/27/2013 | 2/19/2015 | 340 | 13 | 1.029 | 350 | $0.6871 | $240 |
| | | Gas | 6/1/2013 | 2/18/2015 | 44 | 12 | 1.029 | 45 | $0.6871 | $31 |
| | | Gas | 9/23/2013 | 1/19/2015 | 307 | 15 | 1.029 | 316 | $0.6871 | $217 |
| | | Gas | 11/14/2013 | 1/19/2015 | 9 | 9 | 1.029 | 9 | $0.6871 | $6 |
| | | Gas | 7/17/2012 | 5/20/2014 | 115 | 22 | 1.029 | 118 | $0.6871 | $81 |
| | | Gas | 3/20/2013 | 3/21/2014 | 42 | 11 | 1.029 | 43 | $0.6871 | $30 |
| | | Gas | 2/3/2014 | 1/21/2015 | 74 | 11 | 1.029 | 76 | $0.6871 | $52 |
| | | Gas | 9/29/2011 | 4/23/2013 | 3 | 1 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 11/15/2013 | 1/22/2015 | 5 | 4 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 9/25/2013 | 12/21/2013 | 36 | 3 | 1.029 | 37 | $0.6871 | $25 |
| | | Gas | 12/20/2011 | 1/20/2012 | 8 | 1 | 1.029 | 8 | $0.6871 | $6 |
| | | Gas | 1/22/2014 | 1/22/2015 | 1,301 | 8 | 1.029 | 1,339 | $0.6871 | $920 |
| | | Gas | 7/24/2012 | 1/22/2015 | 22 | 19 | 1.029 | 23 | $0.6871 | $16 |
| | | Gas | 12/21/2011 | 1/22/2015 | 137 | 11 | 1.029 | 141 | $0.6871 | $97 |
| | | Gas | 2/21/2013 | 1/22/2015 | 5 | 5 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 3/27/2013 | 7/23/2013 | 13 | 4 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 11/21/2012 | 12/19/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 6/20/2012 | 7/24/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 2/23/2013 | 7/25/2013 | 21 | 5 | 1.029 | 22 | $0.6871 | $15 |
| | | Gas | 2/28/2013 | 3/22/2013 | 16 | 1 | 1.029 | 16 | $0.6871 | $11 |
| | | Gas | 11/20/2012 | 4/23/2014 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 3/20/2001 | 1/25/2012 | 0 | 1 | 1.029 | 0 | $0.6871 | $0 |
| | | Gas | 12/22/2011 | 1/25/2012 | 6 | 1 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 10/15/2012 | 12/26/2012 | 35 | 3 | 1.029 | 36 | $0.6871 | $25 |
| | | Gas | 8/27/2012 | 8/26/2013 | 182 | 1 | 1.029 | 187 | $0.6871 | $129 |

| PREMISE | METER | SERVICE | READING FROM | READING TO | CONSUMPTION | RDG ROWS | THERM FACTOR | THERMS | RATE | VALUE |
|---|---|---|---|---|---|---|---|---|---|---|
| [redacted] | | Gas | 6/24/2012 | 4/24/2014 | 3 | 3 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 12/22/2011 | 5/25/2012 | 4 | 4 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 12/27/2011 | 10/27/2014 | 5 | 5 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 9/26/2013 | 9/25/2014 | 42 | 12 | 1.029 | 43 | $0.6871 | $30 |
| | | Gas | 9/26/2013 | 1/28/2015 | 34 | 7 | 1.029 | 35 | $0.6871 | $24 |
| | | Gas | 1/2/2014 | 4/28/2014 | 125 | 4 | 1.029 | 129 | $0.6871 | $88 |
| | | Gas | 9/2/2013 | 2/3/2015 | 1,164 | 16 | 1.029 | 1,198 | $0.6871 | $823 |
| | | Gas | 12/29/2011 | 2/27/2012 | 37 | 2 | 1.029 | 38 | $0.6871 | $26 |
| | | Gas | 7/2/2013 | 3/28/2014 | 66 | 5 | 1.029 | 68 | $0.6871 | $47 |
| | | Gas | 10/7/2013 | 10/26/2013 | 2 | 1 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 3/12/2012 | 1/29/2015 | 309 | 8 | 1.029 | 318 | $0.6871 | $218 |
| | | Gas | 6/26/2013 | 1/29/2015 | 126 | 18 | 1.029 | 130 | $0.6871 | $89 |
| | | Gas | 7/1/2012 | 11/28/2012 | 24 | 4 | 1.029 | 25 | $0.6871 | $17 |
| | | Gas | 11/26/2013 | 1/30/2015 | 3,043 | 14 | 1.029 | 3,131 | $0.6871 | $2,151 |
| | | Gas | 1/27/2014 | 2/26/2014 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 7/31/2013 | 2/1/2015 | 22 | 16 | 1.029 | 23 | $0.6871 | $16 |
| | | Gas | 12/28/2011 | 2/28/2012 | 68 | 2 | 1.029 | 70 | $0.6871 | $48 |
| | | Gas | 12/30/2011 | 2/2/2015 | 15 | 15 | 1.029 | 15 | $0.6871 | $11 |
| | | Gas | 2/29/2012 | 9/3/2013 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 12/14/1998 | 2/1/2012 | 0 | 1 | 1.029 | 0 | $0.6871 | $0 |
| | | Gas | 1/4/2012 | 2/5/2015 | 1,321 | 25 | 1.029 | 1,359 | $0.6871 | $934 |
| | | Gas | 12/4/2013 | 5/6/2014 | 88 | 5 | 1.029 | 91 | $0.6871 | $62 |
| | | Gas | 1/3/2012 | 2/4/2015 | 18 | 18 | 1.029 | 19 | $0.6871 | $13 |
| | | Gas | 7/10/2013 | 8/5/2013 | 13 | 1 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 9/1/2013 | 11/3/2014 | 336 | 12 | 1.029 | 346 | $0.6871 | $238 |
| | | Gas | 9/18/2013 | 2/5/2015 | 204 | 16 | 1.029 | 210 | $0.6871 | $144 |
| | | Gas | 10/4/2012 | 2/2/2013 | 45 | 4 | 1.029 | 46 | $0.6871 | $32 |
| | | Gas | 12/4/2013 | 1/4/2014 | 3 | 1 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 9/5/2012 | 2/5/2015 | 701 | 12 | 1.029 | 721 | $0.6871 | $496 |
| | | Gas | 7/8/2013 | 2/8/2015 | 2,258 | 18 | 1.029 | 2,323 | $0.6871 | $1,596 |
| | | Gas | 7/18/1994 | 2/3/2012 | 148 | 1 | 1.029 | 152 | $0.6871 | $105 |
| | | Gas | 11/4/2013 | 2/4/2014 | 47 | 1 | 1.029 | 48 | $0.6871 | $33 |
| | | Gas | 11/22/2013 | 2/7/2015 | 1,593 | 14 | 1.029 | 1,639 | $0.6871 | $1,126 |
| | | Gas | 10/15/2013 | 1/8/2014 | 741 | 3 | 1.029 | 762 | $0.6871 | $524 |
| | | Gas | 12/27/2013 | 3/10/2014 | 221 | 3 | 1.029 | 227 | $0.6871 | $156 |
| | | Gas | 2/22/2013 | 2/10/2015 | 933 | 23 | 1.029 | 960 | $0.6871 | $660 |
| | | Gas | 1/10/2012 | 4/10/2012 | 25 | 3 | 1.029 | 26 | $0.6871 | $18 |
| | | Gas | 1/9/2012 | 3/9/2012 | 12 | 2 | 1.029 | 12 | $0.6871 | $8 |
| | | Gas | 3/8/2012 | 12/10/2014 | 9 | 9 | 1.029 | 9 | $0.6871 | $6 |
| | | Gas | 6/22/2012 | 1/10/2014 | 23 | 3 | 1.029 | 24 | $0.6871 | $16 |
| | | Gas | 6/22/2012 | 3/8/2013 | 449 | 9 | 1.029 | 462 | $0.6871 | $317 |
| | | Gas | 4/1/2013 | 2/11/2015 | 1,067 | 23 | 1.029 | 1,098 | $0.6871 | $754 |
| | | Gas | 1/10/2013 | 2/11/2015 | 38 | 23 | 1.029 | 39 | $0.6871 | $27 |
| | | Gas | 2/19/2014 | 3/12/2014 | 2 | 1 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 9/1/2013 | 12/11/2013 | 4 | 2 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 12/14/2013 | 1/13/2015 | 46 | 5 | 1.029 | 47 | $0.6871 | $33 |
| | | Gas | 9/28/2013 | 11/8/2014 | 15 | 10 | 1.029 | 15 | $0.6871 | $11 |
| | | Gas | 10/10/2013 | 2/12/2015 | 190 | 10 | 1.029 | 196 | $0.6871 | $134 |
| | | Gas | 10/3/2013 | 2/12/2015 | 224 | 16 | 1.029 | 230 | $0.6871 | $158 |
| | | Gas | 5/31/2013 | 2/12/2015 | 1,595 | 21 | 1.029 | 1,641 | $0.6871 | $1,128 |
| | | Gas | 12/12/2013 | 2/12/2015 | 917 | 14 | 1.029 | 944 | $0.6871 | $648 |
| | | Gas | 2/10/2012 | 4/10/2014 | 3 | 3 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 5/11/2012 | 2/12/2015 | 224 | 9 | 1.029 | 230 | $0.6871 | $158 |
| | | Gas | 2/11/2014 | 2/11/2015 | 301 | 7 | 1.029 | 310 | $0.6871 | $213 |
| | | Gas | 10/23/2012 | 2/12/2015 | 31 | 22 | 1.029 | 32 | $0.6871 | $22 |
| | | Gas | 7/28/2012 | 8/15/2012 | 6 | 1 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 10/12/2012 | 2/12/2015 | 642 | 11 | 1.029 | 661 | $0.6871 | $454 |
| | | Gas | 3/6/2013 | 3/13/2013 | 8 | 1 | 1.029 | 8 | $0.6871 | $6 |
| | | Gas | 12/17/2013 | 2/12/2014 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 8/15/2013 | 2/13/2015 | 19 | 13 | 1.029 | 20 | $0.6871 | $13 |
| | | Gas | 12/26/2013 | 2/13/2015 | 181 | 13 | 1.029 | 186 | $0.6871 | $128 |
| | | Gas | 4/12/2013 | 2/12/2015 | 145 | 21 | 1.029 | 149 | $0.6871 | $103 |
| | | Gas | 12/6/2012 | 2/12/2014 | 78 | 14 | 1.029 | 80 | $0.6871 | $55 |
| | | Gas | 11/30/2013 | 2/13/2015 | 800 | 15 | 1.029 | 823 | $0.6871 | $566 |
| | | Gas | 1/13/2014 | 2/14/2015 | 4 | 3 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 3/1/2012 | 3/13/2012 | 22 | 1 | 1.029 | 23 | $0.6871 | $16 |
| | | Gas | 1/13/2012 | 2/14/2015 | 72 | 16 | 1.029 | 74 | $0.6871 | $51 |
| | | Gas | 12/2/2013 | 2/14/2015 | 129 | 15 | 1.029 | 133 | $0.6871 | $91 |
| | | Gas | 10/14/2013 | 2/14/2015 | 519 | 13 | 1.029 | 534 | $0.6871 | $367 |
| | | Gas | 5/21/2013 | 2/19/2015 | 729 | 14 | 1.029 | 750 | $0.6871 | $515 |
| | | Gas | 9/28/2012 | 10/18/2012 | 5 | 1 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 8/6/2012 | 2/19/2015 | 65 | 30 | 1.029 | 67 | $0.6871 | $46 |
| | | Gas | 5/8/2012 | 10/20/2014 | 137 | 20 | 1.029 | 141 | $0.6871 | $97 |

| PREMISE | METER | SERVICE | READING FROM | READING TO | CONSUMPTION | RDG ROWS | THERM FACTOR | THERMS | RATE | VALUE |
|---|---|---|---|---|---|---|---|---|---|---|
| [redacted] | | Gas | 1/19/2012 | 2/20/2015 | 65 | 36 | 1.029 | 67 | $0.6871 | $46 |
| | | Gas | 6/1/2013 | 2/18/2014 | 4 | 2 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 11/14/2012 | 2/17/2015 | 3,945 | 15 | 1.029 | 4,059 | $0.6871 | $2,789 |
| | | Gas | 10/1/2012 | 2/18/2015 | 1,997 | 28 | 1.029 | 2,055 | $0.6871 | $1,412 |
| | | Gas | 6/18/2013 | 4/16/2014 | 146 | 10 | 1.029 | 150 | $0.6871 | $103 |
| | | Gas | 8/19/2011 | 4/17/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 2/15/2013 | 3/18/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 12/26/2012 | 1/20/2015 | 58 | 23 | 1.029 | 60 | $0.6871 | $41 |
| | | Gas | 5/22/2012 | 1/20/2015 | 70 | 12 | 1.029 | 72 | $0.6871 | $49 |
| | | Gas | 6/20/2013 | 2/19/2014 | 29 | 4 | 1.029 | 30 | $0.6871 | $21 |
| | | Gas | 2/21/2014 | 1/22/2015 | 31 | 10 | 1.029 | 32 | $0.6871 | $22 |
| | | Gas | 12/17/2012 | 4/22/2013 | 9 | 2 | 1.029 | 9 | $0.6871 | $6 |
| | | Gas | 5/31/2013 | 1/22/2015 | 413 | 19 | 1.029 | 425 | $0.6871 | $292 |
| | | Gas | 1/20/2011 | 4/23/2014 | 560 | 6 | 1.029 | 576 | $0.6871 | $396 |
| | | Gas | 12/20/2011 | 1/22/2015 | 54 | 31 | 1.029 | 56 | $0.6871 | $38 |
| | | Gas | 1/8/2014 | 2/25/2014 | 2 | 1 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 10/4/2000 | 1/24/2012 | 0 | 1 | 1.029 | 0 | $0.6871 | $0 |
| | | Gas | 6/27/2013 | 8/26/2013 | 15 | 2 | 1.029 | 15 | $0.6871 | $11 |
| | | Gas | 10/24/2013 | 1/29/2015 | 29 | 8 | 1.029 | 30 | $0.6871 | $21 |
| | | Gas | 8/13/2012 | 8/27/2012 | 3 | 1 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 2/1/2013 | 1/29/2015 | 74 | 4 | 1.029 | 76 | $0.6871 | $52 |
| | | Gas | 9/12/2012 | 11/26/2012 | 9 | 3 | 1.029 | 9 | $0.6871 | $6 |
| | | Gas | 11/26/2013 | 12/30/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 10/1/2013 | 1/30/2015 | 157 | 15 | 1.029 | 162 | $0.6871 | $111 |
| | | Gas | 11/26/2013 | 12/30/2013 | 17 | 1 | 1.029 | 17 | $0.6871 | $12 |
| | | Gas | 11/26/2013 | 2/27/2014 | 476 | 3 | 1.029 | 490 | $0.6871 | $337 |
| | | Gas | 7/1/2012 | 10/26/2012 | 13 | 3 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 10/29/2012 | 2/2/2015 | 16 | 15 | 1.029 | 16 | $0.6871 | $11 |
| | | Gas | 6/1/2013 | 8/29/2014 | 7 | 6 | 1.029 | 7 | $0.6871 | $5 |
| | | Gas | 5/31/2013 | 10/29/2014 | 60 | 16 | 1.029 | 62 | $0.6871 | $42 |
| | | Gas | 3/1/2013 | 2/3/2015 | 49 | 19 | 1.029 | 50 | $0.6871 | $35 |
| | | Gas | 12/3/2013 | 4/1/2014 | 324 | 4 | 1.029 | 333 | $0.6871 | $229 |
| | | Gas | 7/10/2012 | 10/30/2013 | 121 | 15 | 1.029 | 125 | $0.6871 | $86 |
| | | Gas | 9/1/2013 | 9/3/2014 | 5 | 3 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 12/3/2013 | 2/3/2015 | 38 | 14 | 1.029 | 39 | $0.6871 | $27 |
| | | Gas | 10/7/2013 | 11/5/2014 | 229 | 7 | 1.029 | 236 | $0.6871 | $162 |
| | | Gas | 1/27/2010 | 2/2/2012 | 0 | 1 | 1.029 | 0 | $0.6871 | $0 |
| | | Gas | 12/4/2013 | 2/5/2015 | 60 | 14 | 1.029 | 62 | $0.6871 | $42 |
| | | Gas | 2/5/2013 | 2/5/2015 | 64 | 16 | 1.029 | 66 | $0.6871 | $45 |
| | | Gas | 4/29/2013 | 2/5/2015 | 127 | 21 | 1.029 | 131 | $0.6871 | $90 |
| | | Gas | 2/19/2014 | 6/4/2014 | 15 | 2 | 1.029 | 15 | $0.6871 | $11 |
| | | Gas | 5/3/2012 | 2/5/2015 | 1,701 | 31 | 1.029 | 1,750 | $0.6871 | $1,203 |
| | | Gas | 8/16/2013 | 2/5/2015 | 3,714 | 17 | 1.029 | 3,822 | $0.6871 | $2,626 |
| | | Gas | 6/20/2013 | 11/2/2013 | 31 | 5 | 1.029 | 32 | $0.6871 | $22 |
| | | Gas | 12/3/2013 | 2/5/2015 | 36 | 13 | 1.029 | 37 | $0.6871 | $25 |
| | | Gas | 2/22/2012 | 4/3/2012 | 4 | 2 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 9/16/2013 | 2/5/2015 | 2,442 | 16 | 1.029 | 2,513 | $0.6871 | $1,727 |
| | | Gas | 10/3/2013 | 2/5/2015 | 23 | 15 | 1.029 | 24 | $0.6871 | $16 |
| | | Gas | 9/5/2012 | 8/5/2014 | 26 | 18 | 1.029 | 27 | $0.6871 | $18 |
| | | Gas | 4/20/2012 | 10/3/2014 | 441 | 28 | 1.029 | 454 | $0.6871 | $312 |
| | | Gas | 12/4/2013 | 2/5/2015 | 86 | 8 | 1.029 | 88 | $0.6871 | $61 |
| | | Gas | 2/28/2014 | 12/5/2014 | 73 | 10 | 1.029 | 75 | $0.6871 | $52 |
| | | Gas | 2/2/2012 | 1/6/2015 | 18 | 17 | 1.029 | 19 | $0.6871 | $13 |
| | | Gas | 5/15/2013 | 7/8/2013 | 4 | 2 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 4/5/2012 | 11/4/2012 | 23 | 7 | 1.029 | 24 | $0.6871 | $16 |
| | | Gas | 7/26/2013 | 8/8/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 2/28/2014 | 3/10/2014 | 32 | 1 | 1.029 | 33 | $0.6871 | $23 |
| | | Gas | 1/3/1995 | 2/6/2012 | 12 | 1 | 1.029 | 12 | $0.6871 | $8 |
| | | Gas | 9/21/2012 | 11/6/2013 | 314 | 14 | 1.029 | 323 | $0.6871 | $222 |
| | | Gas | 11/25/2013 | 12/6/2013 | 2 | 1 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 5/3/2008 | 11/8/2012 | 305 | 1 | 1.029 | 314 | $0.6871 | $216 |
| | | Gas | 11/19/2013 | 12/9/2013 | 18 | 1 | 1.029 | 19 | $0.6871 | $13 |
| | | Gas | 12/9/2013 | 2/10/2015 | 18 | 2 | 1.029 | 19 | $0.6871 | $13 |
| | | Gas | 5/24/2013 | 2/10/2015 | 232 | 21 | 1.029 | 239 | $0.6871 | $164 |
| | | Gas | 1/2/2014 | 2/11/2015 | 820 | 13 | 1.029 | 844 | $0.6871 | $580 |
| | | Gas | 3/20/2012 | 8/8/2012 | 26 | 4 | 1.029 | 27 | $0.6871 | $18 |
| | | Gas | 11/6/2013 | 1/9/2015 | 8 | 8 | 1.029 | 8 | $0.6871 | $6 |
| | | Gas | 9/28/2012 | 2/10/2015 | 1,104 | 28 | 1.029 | 1,136 | $0.6871 | $781 |
| | | Gas | 8/10/2012 | 2/10/2015 | 6 | 6 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 3/5/2013 | 4/9/2013 | 78 | 1 | 1.029 | 80 | $0.6871 | $55 |
| | | Gas | 12/12/2013 | 1/13/2014 | 15 | 1 | 1.029 | 15 | $0.6871 | $11 |
| | | Gas | 10/10/2013 | 1/13/2014 | 17 | 3 | 1.029 | 17 | $0.6871 | $12 |
| | | Gas | 6/1/2012 | 6/10/2012 | 2 | 1 | 1.029 | 2 | $0.6871 | $1 |

| PREMISE | METER | SERVICE | READING FROM | READING TO | CONSUMPTION | RDG ROWS | THERM FACTOR | THERMS | RATE | VALUE |
|---|---|---|---|---|---|---|---|---|---|---|
| [redacted] | | Gas | 6/20/2012 | 7/11/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 9/12/2013 | 11/8/2013 | 5 | 2 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 8/26/2013 | 2/12/2015 | 152 | 18 | 1.029 | 156 | $0.6871 | $107 |
| | | Gas | 10/18/2013 | 3/20/2014 | 335 | 5 | 1.029 | 345 | $0.6871 | $237 |
| | | Gas | 1/27/2014 | 2/12/2015 | 254 | 13 | 1.029 | 261 | $0.6871 | $180 |
| | | Gas | 10/10/2013 | 2/12/2015 | 70 | 9 | 1.029 | 72 | $0.6871 | $49 |
| | | Gas | 10/14/2013 | 2/12/2015 | 1,487 | 16 | 1.029 | 1,530 | $0.6871 | $1,051 |
| | | Gas | 4/3/2013 | 10/10/2013 | 19 | 7 | 1.029 | 20 | $0.6871 | $13 |
| | | Gas | 7/23/2013 | 8/15/2013 | 8 | 1 | 1.029 | 8 | $0.6871 | $6 |
| | | Gas | 11/13/2013 | 2/13/2015 | 472 | 15 | 1.029 | 486 | $0.6871 | $334 |
| | | Gas | 8/2/2013 | 2/12/2015 | 67 | 19 | 1.029 | 69 | $0.6871 | $47 |
| | | Gas | 11/25/2013 | 2/13/2015 | 113 | 15 | 1.029 | 116 | $0.6871 | $80 |
| | | Gas | 7/17/2012 | 2/13/2013 | 34 | 7 | 1.029 | 35 | $0.6871 | $24 |
| | | Gas | 12/9/2013 | 2/13/2015 | 246 | 15 | 1.029 | 253 | $0.6871 | $174 |
| | | Gas | 5/25/2013 | 2/12/2015 | 359 | 21 | 1.029 | 369 | $0.6871 | $254 |
| | | Gas | 1/9/2013 | 2/14/2013 | 4 | 2 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 2/12/2014 | 2/12/2015 | 762 | 12 | 1.029 | 784 | $0.6871 | $539 |
| | | Gas | 5/27/2013 | 2/13/2015 | 339 | 20 | 1.029 | 349 | $0.6871 | $240 |
| | | Gas | 6/29/2011 | 2/12/2015 | 112 | 20 | 1.029 | 115 | $0.6871 | $79 |
| | | Gas | 1/18/2013 | 11/12/2013 | 29 | 10 | 1.029 | 30 | $0.6871 | $21 |
| | | Gas | 3/14/2013 | 2/14/2015 | 110 | 12 | 1.029 | 113 | $0.6871 | $78 |
| | | Gas | 12/13/2012 | 5/14/2013 | 9 | 5 | 1.029 | 9 | $0.6871 | $6 |
| | | Gas | 3/13/2013 | 4/15/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 11/13/2012 | 12/13/2012 | 19 | 1 | 1.029 | 20 | $0.6871 | $13 |
| | | Gas | 10/11/2013 | 2/14/2015 | 35 | 5 | 1.029 | 36 | $0.6871 | $25 |
| | | Gas | 12/12/2013 | 2/14/2015 | 1,445 | 14 | 1.029 | 1,487 | $0.6871 | $1,022 |
| | | Gas | 1/12/2012 | 2/10/2012 | 7 | 1 | 1.029 | 7 | $0.6871 | $5 |
| | | Gas | 6/15/2012 | 4/16/2013 | 50 | 10 | 1.029 | 51 | $0.6871 | $35 |
| | | Gas | 11/26/2012 | 3/14/2013 | 139 | 1 | 1.029 | 143 | $0.6871 | $98 |
| | | Gas | 10/1/2013 | 2/20/2015 | 580 | 16 | 1.029 | 597 | $0.6871 | $410 |
| | | Gas | 10/22/2012 | 12/17/2012 | 5 | 1 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 8/21/2012 | 12/17/2012 | 14 | 4 | 1.029 | 14 | $0.6871 | $10 |
| | | Gas | 1/21/2014 | 12/17/2014 | 3 | 3 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 12/16/2013 | 3/19/2014 | 400 | 3 | 1.029 | 412 | $0.6871 | $283 |
| | | Gas | 7/1/2013 | 2/19/2015 | 607 | 19 | 1.029 | 625 | $0.6871 | $429 |
| | | Gas | 1/18/2013 | 10/20/2014 | 136 | 19 | 1.029 | 140 | $0.6871 | $96 |
| | | Gas | 12/27/2012 | 5/20/2014 | 85 | 17 | 1.029 | 87 | $0.6871 | $60 |
| | | Gas | 8/29/2012 | 12/17/2014 | 13 | 4 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 2/4/2014 | 2/18/2015 | 159 | 12 | 1.029 | 164 | $0.6871 | $112 |
| | | Gas | 6/16/2013 | 3/19/2014 | 293 | 9 | 1.029 | 301 | $0.6871 | $207 |
| | | Gas | 2/14/2014 | 12/16/2014 | 32 | 9 | 1.029 | 33 | $0.6871 | $23 |
| | | Gas | 11/14/2013 | 12/16/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 2/28/2014 | 2/17/2015 | 80 | 10 | 1.029 | 82 | $0.6871 | $57 |
| | | Gas | 1/21/2014 | 1/20/2015 | 37 | 7 | 1.029 | 38 | $0.6871 | $26 |
| | | Gas | 2/5/2014 | 3/20/2014 | 29 | 2 | 1.029 | 30 | $0.6871 | $21 |
| | | Gas | 9/19/2012 | 10/20/2014 | 4 | 4 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 6/20/2013 | 10/19/2013 | 25 | 4 | 1.029 | 26 | $0.6871 | $18 |
| | | Gas | 10/19/2012 | 1/20/2015 | 375 | 7 | 1.029 | 386 | $0.6871 | $265 |
| | | Gas | 6/30/2012 | 7/23/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 1/11/2012 | 1/20/2015 | 24 | 24 | 1.029 | 25 | $0.6871 | $17 |
| | | Gas | 1/21/2014 | 2/20/2014 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 4/23/2012 | 5/23/2012 | 23 | 1 | 1.029 | 24 | $0.6871 | $16 |
| | | Gas | 1/24/2014 | 11/20/2014 | 47 | 8 | 1.029 | 48 | $0.6871 | $33 |
| | | Gas | 8/31/2012 | 12/22/2014 | 119 | 22 | 1.029 | 122 | $0.6871 | $84 |
| | | Gas | 1/20/2014 | 1/23/2015 | 30 | 12 | 1.029 | 31 | $0.6871 | $21 |
| | | Gas | 11/13/2013 | 1/23/2014 | 6 | 3 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 6/25/2012 | 12/23/2014 | 164 | 29 | 1.029 | 169 | $0.6871 | $116 |
| | | Gas | 8/24/2012 | 1/26/2015 | 11 | 11 | 1.029 | 11 | $0.6871 | $8 |
| | | Gas | 12/22/2011 | 1/29/2015 | 55 | 37 | 1.029 | 57 | $0.6871 | $39 |
| | | Gas | 1/28/2014 | 1/29/2015 | 167 | 12 | 1.029 | 172 | $0.6871 | $118 |
| | | Gas | 11/15/2013 | 1/29/2015 | 347 | 14 | 1.029 | 357 | $0.6871 | $245 |
| | | Gas | 7/1/2013 | 8/28/2013 | 23 | 2 | 1.029 | 24 | $0.6871 | $16 |
| | | Gas | 4/1/2013 | 1/30/2015 | 123 | 21 | 1.029 | 127 | $0.6871 | $87 |
| | | Gas | 9/12/2013 | 1/30/2015 | 385 | 10 | 1.029 | 396 | $0.6871 | $272 |
| | | Gas | 1/2/2014 | 1/29/2014 | 74 | 1 | 1.029 | 76 | $0.6871 | $52 |
| | | Gas | 2/27/2014 | 12/29/2014 | 10 | 8 | 1.029 | 10 | $0.6871 | $7 |
| | | Gas | 9/17/2013 | 1/30/2015 | 898 | 16 | 1.029 | 924 | $0.6871 | $635 |
| | | Gas | 7/29/2013 | 1/30/2015 | 10 | 10 | 1.029 | 10 | $0.6871 | $7 |
| | | Gas | 1/13/2014 | 1/29/2015 | 160 | 12 | 1.029 | 165 | $0.6871 | $113 |
| | | Gas | 8/24/2012 | 12/27/2012 | 278 | 5 | 1.029 | 286 | $0.6871 | $197 |
| | | Gas | 9/1/2013 | 2/2/2015 | 679 | 16 | 1.029 | 699 | $0.6871 | $480 |
| | | Gas | 8/30/2013 | 2/1/2015 | 9 | 7 | 1.029 | 9 | $0.6871 | $6 |
| | | Gas | 6/1/2013 | 2/1/2015 | 37 | 19 | 1.029 | 38 | $0.6871 | $26 |

| PREMISE | METER | SERVICE | READING FROM | READING TO | CONSUMPTION | RDG ROWS | THERM FACTOR | THERMS | RATE | VALUE |
|---|---|---|---|---|---|---|---|---|---|---|
| [redacted] | | Gas | 6/28/2013 | 8/29/2014 | 5 | 5 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 8/30/2012 | 2/1/2015 | 11 | 11 | 1.029 | 11 | $0.6871 | $8 |
| | | Gas | 9/30/2013 | 6/2/2014 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 12/5/2012 | 12/31/2012 | 34 | 1 | 1.029 | 35 | $0.6871 | $24 |
| | | Gas | 10/1/2012 | 2/2/2015 | 7 | 7 | 1.029 | 7 | $0.6871 | $5 |
| | | Gas | 8/27/2013 | 2/3/2015 | 10 | 10 | 1.029 | 10 | $0.6871 | $7 |
| | | Gas | 8/1/2013 | 9/3/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 1/28/2014 | 2/2/2015 | 352 | 6 | 1.029 | 362 | $0.6871 | $249 |
| | | Gas | 1/17/2014 | 2/5/2015 | 86 | 13 | 1.029 | 88 | $0.6871 | $61 |
| | | Gas | 10/3/2013 | 2/5/2015 | 141 | 15 | 1.029 | 145 | $0.6871 | $100 |
| | | Gas | 12/2/2013 | 2/5/2015 | 726 | 14 | 1.029 | 747 | $0.6871 | $513 |
| | | Gas | 5/21/2013 | 7/2/2014 | 3 | 2 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 10/28/2013 | 10/3/2014 | 39 | 11 | 1.029 | 40 | $0.6871 | $28 |
| | | Gas | 2/1/2012 | 2/5/2015 | 9 | 9 | 1.029 | 9 | $0.6871 | $6 |
| | | Gas | 8/28/2012 | 6/5/2014 | 57 | 9 | 1.029 | 59 | $0.6871 | $40 |
| | | Gas | 10/3/2013 | 2/5/2015 | 250 | 15 | 1.029 | 257 | $0.6871 | $177 |
| | | Gas | 9/12/2013 | 2/5/2015 | 981 | 16 | 1.029 | 1,009 | $0.6871 | $694 |
| | | Gas | 1/3/2012 | 4/4/2012 | 7 | 3 | 1.029 | 7 | $0.6871 | $5 |
| | | Gas | 1/16/2014 | 3/10/2014 | 6 | 2 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 12/31/2012 | 1/8/2013 | 5 | 1 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 1/23/2013 | 6/9/2014 | 42 | 16 | 1.029 | 43 | $0.6871 | $30 |
| | | Gas | 1/22/2014 | 2/7/2015 | 210 | 13 | 1.029 | 216 | $0.6871 | $148 |
| | | Gas | 2/6/2012 | 1/8/2015 | 27 | 22 | 1.029 | 28 | $0.6871 | $19 |
| | | Gas | 9/1/2013 | 2/7/2015 | 357 | 18 | 1.029 | 367 | $0.6871 | $252 |
| | | Gas | 5/21/2012 | 2/7/2015 | 33 | 2 | 1.029 | 34 | $0.6871 | $23 |
| | | Gas | 5/10/2012 | 11/5/2012 | 5 | 4 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 10/2/2013 | 3/11/2014 | 410 | 6 | 1.029 | 422 | $0.6871 | $290 |
| | | Gas | 11/28/2013 | 3/11/2014 | 3 | 1 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 2/10/2014 | 2/11/2015 | 372 | 12 | 1.029 | 383 | $0.6871 | $263 |
| | | Gas | 5/1/2013 | 9/11/2013 | 29 | 5 | 1.029 | 30 | $0.6871 | $21 |
| | | Gas | 7/3/2013 | 9/9/2014 | 727 | 14 | 1.029 | 748 | $0.6871 | $514 |
| | | Gas | 8/20/2013 | 3/11/2014 | 581 | 7 | 1.029 | 598 | $0.6871 | $411 |
| | | Gas | 1/10/2012 | 4/10/2012 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 4/10/2013 | 6/11/2013 | 24 | 2 | 1.029 | 25 | $0.6871 | $17 |
| | | Gas | 5/9/2013 | 9/10/2013 | 49 | 4 | 1.029 | 50 | $0.6871 | $35 |
| | | Gas | 4/10/2013 | 2/11/2015 | 70 | 22 | 1.029 | 72 | $0.6871 | $49 |
| | | Gas | 10/15/2013 | 4/21/2014 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 2/15/2014 | 1/13/2015 | 31 | 2 | 1.029 | 32 | $0.6871 | $22 |
| | | Gas | 2/21/2014 | 2/12/2015 | 375 | 12 | 1.029 | 386 | $0.6871 | $265 |
| | | Gas | 11/1/2012 | 2/13/2013 | 99 | 4 | 1.029 | 102 | $0.6871 | $70 |
| | | Gas | 10/11/2012 | 2/12/2015 | 1,396 | 28 | 1.029 | 1,436 | $0.6871 | $987 |
| | | Gas | 3/27/2013 | 10/11/2013 | 20 | 7 | 1.029 | 21 | $0.6871 | $14 |
| | | Gas | 8/20/2013 | 9/13/2013 | 5 | 1 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 6/13/2013 | 2/13/2015 | 728 | 20 | 1.029 | 749 | $0.6871 | $515 |
| | | Gas | 6/14/2012 | 3/13/2013 | 169 | 9 | 1.029 | 174 | $0.6871 | $119 |
| | | Gas | 10/2/2012 | 2/14/2013 | 34 | 5 | 1.029 | 35 | $0.6871 | $24 |
| | | Gas | 8/23/2013 | 9/13/2013 | 7 | 1 | 1.029 | 7 | $0.6871 | $5 |
| | | Gas | 5/1/2013 | 2/13/2015 | 384 | 22 | 1.029 | 395 | $0.6871 | $271 |
| | | Gas | 2/27/2012 | 8/13/2014 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 6/20/2013 | 1/15/2015 | 12 | 8 | 1.029 | 12 | $0.6871 | $8 |
| | | Gas | 8/17/2012 | 12/13/2012 | 37 | 4 | 1.029 | 38 | $0.6871 | $26 |
| | | Gas | 2/27/2014 | 2/13/2015 | 154 | 12 | 1.029 | 158 | $0.6871 | $109 |
| | | Gas | 11/14/2012 | 2/14/2015 | 240 | 27 | 1.029 | 247 | $0.6871 | $170 |
| | | Gas | 10/15/2013 | 2/14/2015 | 55 | 16 | 1.029 | 57 | $0.6871 | $39 |
| | | Gas | 12/13/2013 | 3/17/2014 | 73 | 3 | 1.029 | 75 | $0.6871 | $52 |
| | | Gas | 1/14/2014 | 2/17/2015 | 535 | 10 | 1.029 | 551 | $0.6871 | $378 |
| | | Gas | 1/16/2012 | 2/18/2015 | 424 | 14 | 1.029 | 436 | $0.6871 | $300 |
| | | Gas | 5/16/2013 | 11/15/2013 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 7/12/2013 | 7/21/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 2/6/2014 | 2/20/2015 | 213 | 12 | 1.029 | 219 | $0.6871 | $151 |
| | | Gas | 8/9/2013 | 2/19/2015 | 562 | 18 | 1.029 | 578 | $0.6871 | $397 |
| | | Gas | 10/1/2013 | 8/19/2014 | 285 | 10 | 1.029 | 293 | $0.6871 | $202 |
| | | Gas | 10/17/2013 | 2/20/2015 | 1,071 | 8 | 1.029 | 1,102 | $0.6871 | $757 |
| | | Gas | 2/28/2014 | 2/19/2015 | 733 | 10 | 1.029 | 754 | $0.6871 | $518 |
| | | Gas | 1/18/2012 | 10/17/2014 | 397 | 6 | 1.029 | 409 | $0.6871 | $281 |
| | | Gas | 3/8/2013 | 2/19/2015 | 27 | 22 | 1.029 | 28 | $0.6871 | $19 |
| | | Gas | 6/18/2013 | 2/19/2015 | 22 | 16 | 1.029 | 23 | $0.6871 | $16 |
| | | Gas | 10/31/2013 | 11/18/2014 | 196 | 10 | 1.029 | 202 | $0.6871 | $139 |
| | | Gas | 7/23/2013 | 2/19/2015 | 198 | 18 | 1.029 | 204 | $0.6871 | $140 |
| | | Gas | 5/20/2013 | 2/19/2015 | 286 | 12 | 1.029 | 294 | $0.6871 | $202 |
| | | Gas | 4/18/2012 | 5/18/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 12/9/2013 | 12/17/2013 | 27 | 1 | 1.029 | 28 | $0.6871 | $19 |
| | | Gas | 10/3/2013 | 11/18/2013 | 6 | 1 | 1.029 | 6 | $0.6871 | $4 |

| PREMISE | METER | SERVICE | READING FROM | READING TO | CONSUMPTION | RDG ROWS | THERM FACTOR | THERMS | RATE | VALUE |
|---|---|---|---|---|---|---|---|---|---|---|
| [redacted] | | Gas | 1/17/2013 | 2/16/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 11/4/2013 | 2/18/2015 | 1,479 | 15 | 1.029 | 1,522 | $0.6871 | $1,046 |
| | | Gas | 11/14/2013 | 2/18/2015 | 54 | 14 | 1.029 | 56 | $0.6871 | $38 |
| | | Gas | 6/26/2013 | 2/18/2015 | 475 | 18 | 1.029 | 489 | $0.6871 | $336 |
| | | Gas | 10/17/2013 | 2/18/2015 | 667 | 9 | 1.029 | 686 | $0.6871 | $472 |
| | | Gas | 12/10/2013 | 3/19/2014 | 24 | 3 | 1.029 | 25 | $0.6871 | $17 |
| | | Gas | 12/23/2011 | 12/14/2012 | 1,933 | 9 | 1.029 | 1,989 | $0.6871 | $1,367 |
| | | Gas | 7/2/2013 | 1/20/2015 | 16 | 12 | 1.029 | 16 | $0.6871 | $11 |
| | | Gas | 1/29/2013 | 9/21/2014 | 51 | 13 | 1.029 | 52 | $0.6871 | $36 |
| | | Gas | 8/2/2013 | 10/22/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 2/24/2000 | 1/23/2012 | 0 | 1 | 1.029 | 0 | $0.6871 | $0 |
| | | Gas | 12/21/2011 | 1/22/2015 | 1,426 | 36 | 1.029 | 1,467 | $0.6871 | $1,008 |
| | | Gas | 5/9/2013 | 1/22/2015 | 1,256 | 18 | 1.029 | 1,292 | $0.6871 | $888 |
| | | Gas | 2/4/2013 | 1/22/2015 | 209 | 23 | 1.029 | 215 | $0.6871 | $148 |
| | | Gas | 1/9/2014 | 2/20/2014 | 57 | 1 | 1.029 | 59 | $0.6871 | $40 |
| | | Gas | 6/26/2012 | 1/22/2015 | 164 | 30 | 1.029 | 169 | $0.6871 | $116 |
| | | Gas | 9/20/2013 | 1/23/2014 | 87 | 4 | 1.029 | 90 | $0.6871 | $62 |
| | | Gas | 10/28/2013 | 1/23/2014 | 4 | 3 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 5/31/2013 | 6/21/2013 | 2 | 1 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 8/22/2013 | 8/27/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 12/22/2011 | 1/29/2015 | 78 | 37 | 1.029 | 80 | $0.6871 | $55 |
| | | Gas | 1/28/2014 | 1/29/2015 | 8 | 8 | 1.029 | 8 | $0.6871 | $6 |
| | | Gas | 1/13/2014 | 1/30/2015 | 203 | 13 | 1.029 | 209 | $0.6871 | $144 |
| | | Gas | 3/28/2012 | 9/26/2014 | 5 | 5 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 5/2/2013 | 3/28/2014 | 94 | 7 | 1.029 | 97 | $0.6871 | $66 |
| | | Gas | 4/12/2013 | 1/29/2015 | 98 | 21 | 1.029 | 101 | $0.6871 | $69 |
| | | Gas | 2/19/2005 | 7/29/2014 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 2/28/2014 | 7/29/2014 | 22 | 5 | 1.029 | 23 | $0.6871 | $16 |
| | | Gas | 9/14/2012 | 9/27/2013 | 204 | 10 | 1.029 | 210 | $0.6871 | $144 |
| | | Gas | 6/30/2013 | 1/30/2015 | 442 | 18 | 1.029 | 455 | $0.6871 | $313 |
| | | Gas | 8/30/2012 | 1/2/2014 | 11 | 9 | 1.029 | 11 | $0.6871 | $8 |
| | | Gas | 12/28/2011 | 2/1/2015 | 24 | 8 | 1.029 | 25 | $0.6871 | $17 |
| | | Gas | 1/5/2014 | 1/2/2015 | 24 | 11 | 1.029 | 25 | $0.6871 | $17 |
| | | Gas | 1/31/2014 | 12/2/2014 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 9/2/2013 | 12/2/2014 | 1,058 | 12 | 1.029 | 1,089 | $0.6871 | $748 |
| | | Gas | 2/12/2003 | 2/1/2012 | 0 | 1 | 1.029 | 0 | $0.6871 | $0 |
| | | Gas | 1/30/2014 | 3/2/2014 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 12/2/2013 | 2/3/2015 | 13 | 13 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 12/6/2012 | 2/3/2015 | 53 | 9 | 1.029 | 55 | $0.6871 | $37 |
| | | Gas | 2/9/2001 | 2/3/2015 | 155 | 29 | 1.029 | 159 | $0.6871 | $110 |
| | | Gas | 12/2/2013 | 1/31/2014 | 347 | 2 | 1.029 | 357 | $0.6871 | $245 |
| | | Gas | 1/3/2013 | 12/2/2014 | 23 | 14 | 1.029 | 24 | $0.6871 | $16 |
| | | Gas | 6/13/2013 | 2/13/2015 | 51 | 17 | 1.029 | 52 | $0.6871 | $36 |
| | | Gas | 9/13/2013 | 10/31/2013 | 18 | 2 | 1.029 | 19 | $0.6871 | $13 |
| | | Gas | 3/4/2013 | 4/2/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 10/3/2013 | 2/5/2015 | 287 | 12 | 1.029 | 295 | $0.6871 | $203 |
| | | Gas | 6/29/2013 | 9/4/2013 | 82 | 3 | 1.029 | 84 | $0.6871 | $58 |
| | | Gas | 4/1/2013 | 2/5/2015 | 567 | 19 | 1.029 | 583 | $0.6871 | $401 |
| | | Gas | 11/16/2012 | 8/4/2014 | 12 | 5 | 1.029 | 12 | $0.6871 | $8 |
| | | Gas | 10/8/2012 | 8/5/2013 | 3,002 | 10 | 1.029 | 3,089 | $0.6871 | $2,122 |
| | | Gas | 5/6/2013 | 2/5/2015 | 82 | 20 | 1.029 | 84 | $0.6871 | $58 |
| | | Gas | 3/5/2012 | 12/4/2014 | 3 | 3 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 12/28/2013 | 2/5/2015 | 13 | 11 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 9/12/2012 | 11/1/2013 | 6 | 2 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 8/3/2012 | 2/5/2015 | 6 | 6 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 12/4/2013 | 2/5/2015 | 272 | 14 | 1.029 | 280 | $0.6871 | $192 |
| | | Gas | 5/8/2013 | 2/5/2015 | 823 | 19 | 1.029 | 847 | $0.6871 | $582 |
| | | Gas | 12/4/2013 | 2/5/2015 | 493 | 14 | 1.029 | 507 | $0.6871 | $349 |
| | | Gas | 3/8/2013 | 2/5/2015 | 501 | 21 | 1.029 | 516 | $0.6871 | $354 |
| | | Gas | 1/5/2012 | 5/6/2013 | 43 | 10 | 1.029 | 44 | $0.6871 | $30 |
| | | Gas | 10/21/2013 | 2/6/2015 | 719 | 15 | 1.029 | 740 | $0.6871 | $508 |
| | | Gas | 11/22/2013 | 12/5/2014 | 43 | 12 | 1.029 | 44 | $0.6871 | $30 |
| | | Gas | 7/1/2012 | 2/6/2015 | 33 | 10 | 1.029 | 34 | $0.6871 | $23 |
| | | Gas | 12/13/2013 | 2/9/2015 | 65 | 14 | 1.029 | 67 | $0.6871 | $46 |
| | | Gas | 7/8/2012 | 2/9/2015 | 4 | 4 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 11/4/2013 | 12/5/2013 | 4 | 1 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 7/22/2013 | 8/7/2014 | 256 | 13 | 1.029 | 263 | $0.6871 | $181 |
| | | Gas | 8/2/2013 | 2/7/2015 | 582 | 15 | 1.029 | 599 | $0.6871 | $411 |
| | | Gas | 6/7/2013 | 11/5/2013 | 3 | 3 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 9/16/2013 | 2/7/2015 | 60 | 9 | 1.029 | 62 | $0.6871 | $42 |
| | | Gas | 9/17/2013 | 2/7/2015 | 403 | 17 | 1.029 | 415 | $0.6871 | $285 |
| | | Gas | 10/7/2013 | 2/7/2015 | 1,882 | 16 | 1.029 | 1,937 | $0.6871 | $1,331 |
| | | Gas | 9/10/2013 | 2/7/2015 | 216 | 17 | 1.029 | 222 | $0.6871 | $153 |

| PREMISE | METER | SERVICE | READING FROM | READING TO | CONSUMPTION | RDG ROWS | THERM FACTOR | THERMS | RATE | VALUE |
|---|---|---|---|---|---|---|---|---|---|---|
| [redacted] | | Gas | 3/29/2012 | 1/8/2015 | 17 | 17 | 1.029 | 17 | $0.6871 | $12 |
| | | Gas | 7/29/2013 | 10/6/2014 | 545 | 13 | 1.029 | 561 | $0.6871 | $385 |
| | | Gas | 6/19/2013 | 2/7/2015 | 724 | 15 | 1.029 | 745 | $0.6871 | $512 |
| | | Gas | 1/6/2012 | 3/6/2012 | 22 | 2 | 1.029 | 23 | $0.6871 | $16 |
| | | Gas | 12/13/2013 | 2/11/2015 | 55 | 14 | 1.029 | 57 | $0.6871 | $39 |
| | | Gas | 5/9/2012 | 6/11/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 12/3/2013 | 2/10/2015 | 92 | 13 | 1.029 | 95 | $0.6871 | $65 |
| | | Gas | 7/10/2013 | 2/11/2015 | 950 | 19 | 1.029 | 978 | $0.6871 | $672 |
| | | Gas | 3/8/2012 | 7/10/2013 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 5/31/2013 | 6/10/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 8/8/2012 | 2/10/2015 | 53 | 16 | 1.029 | 55 | $0.6871 | $37 |
| | | Gas | 9/27/2012 | 1/12/2015 | 8 | 5 | 1.029 | 8 | $0.6871 | $6 |
| | | Gas | 7/10/2013 | 1/9/2014 | 6 | 5 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 5/8/2013 | 2/10/2015 | 498 | 21 | 1.029 | 512 | $0.6871 | $352 |
| | | Gas | 12/11/2013 | 10/9/2014 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 12/2/2013 | 1/30/2015 | 346 | 14 | 1.029 | 356 | $0.6871 | $245 |
| | | Gas | 10/11/2013 | 2/11/2015 | 1,237 | 14 | 1.029 | 1,273 | $0.6871 | $875 |
| | | Gas | 1/8/2014 | 2/12/2015 | 1,655 | 8 | 1.029 | 1,703 | $0.6871 | $1,170 |
| | | Gas | 8/14/2012 | 5/13/2014 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 10/9/2012 | 10/11/2012 | 12 | 1 | 1.029 | 12 | $0.6871 | $8 |
| | | Gas | 4/11/2013 | 2/12/2015 | 672 | 10 | 1.029 | 691 | $0.6871 | $475 |
| | | Gas | 1/11/2012 | 2/12/2015 | 2,503 | 29 | 1.029 | 2,576 | $0.6871 | $1,770 |
| | | Gas | 2/10/2012 | 6/12/2014 | 23 | 12 | 1.029 | 24 | $0.6871 | $16 |
| | | Gas | 2/5/2013 | 8/13/2013 | 66 | 6 | 1.029 | 68 | $0.6871 | $47 |
| | | Gas | 12/2/2013 | 2/13/2015 | 2,768 | 15 | 1.029 | 2,848 | $0.6871 | $1,957 |
| | | Gas | 7/15/2013 | 2/12/2014 | 122 | 7 | 1.029 | 126 | $0.6871 | $86 |
| | | Gas | 12/9/2013 | 2/13/2015 | 181 | 14 | 1.029 | 186 | $0.6871 | $128 |
| | | Gas | 9/28/2013 | 11/12/2013 | 74 | 2 | 1.029 | 76 | $0.6871 | $52 |
| | | Gas | 11/22/2013 | 2/13/2015 | 164 | 15 | 1.029 | 169 | $0.6871 | $116 |
| | | Gas | 8/15/2013 | 9/13/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 12/12/2012 | 1/14/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 8/16/2013 | 2/13/2015 | 540 | 18 | 1.029 | 556 | $0.6871 | $382 |
| | | Gas | 1/11/2012 | 2/10/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 12/11/2012 | 8/13/2014 | 4 | 4 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 8/8/2013 | 8/16/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 1/12/2012 | 2/13/2015 | 275 | 37 | 1.029 | 283 | $0.6871 | $194 |
| | | Gas | 9/14/2012 | 9/16/2013 | 52 | 12 | 1.029 | 54 | $0.6871 | $37 |
| | | Gas | 12/13/2012 | 2/14/2015 | 5 | 5 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 9/5/2013 | 12/12/2013 | 51 | 4 | 1.029 | 52 | $0.6871 | $36 |
| | | Gas | 1/15/2014 | 2/12/2014 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 11/9/2012 | 11/12/2014 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 6/14/2012 | 7/16/2014 | 17 | 17 | 1.029 | 17 | $0.6871 | $12 |
| | | Gas | 3/15/2013 | 2/17/2015 | 24 | 16 | 1.029 | 25 | $0.6871 | $17 |
| | | Gas | 8/30/2012 | 2/15/2013 | 53 | 6 | 1.029 | 55 | $0.6871 | $37 |
| | | Gas | 7/17/2013 | 11/13/2014 | 390 | 14 | 1.029 | 401 | $0.6871 | $276 |
| | | Gas | 10/16/2013 | 12/15/2014 | 744 | 9 | 1.029 | 766 | $0.6871 | $526 |
| | | Gas | 7/21/2013 | 2/19/2015 | 478 | 14 | 1.029 | 492 | $0.6871 | $338 |
| | | Gas | 2/16/2013 | 1/19/2015 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 8/20/2013 | 2/19/2015 | 189 | 7 | 1.029 | 194 | $0.6871 | $134 |
| | | Gas | 7/5/2013 | 2/20/2015 | 778 | 18 | 1.029 | 801 | $0.6871 | $550 |
| | | Gas | 11/18/2013 | 4/21/2014 | 59 | 3 | 1.029 | 61 | $0.6871 | $42 |
| | | Gas | 2/28/2014 | 2/19/2015 | 289 | 10 | 1.029 | 297 | $0.6871 | $204 |
| | | Gas | 1/22/2014 | 10/20/2014 | 207 | 8 | 1.029 | 213 | $0.6871 | $146 |
| | | Gas | 10/1/2013 | 2/19/2015 | 1,115 | 16 | 1.029 | 1,147 | $0.6871 | $788 |
| | | Gas | 8/2/2012 | 2/18/2015 | 203 | 29 | 1.029 | 209 | $0.6871 | $144 |
| | | Gas | 1/17/2012 | 12/17/2014 | 10 | 8 | 1.029 | 10 | $0.6871 | $7 |
| | | Gas | 10/17/2013 | 11/15/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 12/30/2013 | 2/18/2015 | 70 | 11 | 1.029 | 72 | $0.6871 | $49 |
| | | Gas | 12/16/2013 | 2/17/2015 | 132 | 6 | 1.029 | 136 | $0.6871 | $93 |
| | | Gas | 11/15/2013 | 2/18/2015 | 769 | 14 | 1.029 | 791 | $0.6871 | $544 |
| | | Gas | 7/17/2013 | 8/20/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 2/14/2012 | 3/19/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 2/7/2014 | 2/14/2014 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 7/19/2013 | 1/20/2015 | 12 | 12 | 1.029 | 12 | $0.6871 | $8 |
| | | Gas | 12/19/2013 | 3/21/2014 | 7 | 3 | 1.029 | 7 | $0.6871 | $5 |
| | | Gas | 7/21/2013 | 10/22/2014 | 231 | 15 | 1.029 | 238 | $0.6871 | $163 |
| | | Gas | 7/21/2000 | 1/20/2012 | 0 | 1 | 1.029 | 0 | $0.6871 | $0 |
| | | Gas | 5/22/2013 | 11/19/2014 | 17 | 5 | 1.029 | 17 | $0.6871 | $12 |
| | | Gas | 9/11/2013 | 10/22/2013 | 8 | 2 | 1.029 | 8 | $0.6871 | $6 |
| | | Gas | 2/20/2012 | 11/19/2014 | 28 | 18 | 1.029 | 29 | $0.6871 | $20 |
| | | Gas | 8/22/2012 | 12/19/2012 | 11 | 4 | 1.029 | 11 | $0.6871 | $8 |
| | | Gas | 12/26/2012 | 1/23/2014 | 489 | 13 | 1.029 | 503 | $0.6871 | $346 |
| | | Gas | 1/25/2013 | 9/24/2014 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |

| PREMISE | METER | SERVICE | READING FROM | READING TO | CONSUMPTION | RDG ROWS | THERM FACTOR | THERMS | RATE | VALUE |
|---|---|---|---|---|---|---|---|---|---|---|
| [redacted] | | Gas | 10/23/2013 | 1/29/2015 | 1,042 | 15 | 1.029 | 1,072 | $0.6871 | $737 |
| | | Gas | 10/23/2013 | 12/26/2014 | 244 | 9 | 1.029 | 251 | $0.6871 | $173 |
| | | Gas | 6/30/2013 | 1/29/2015 | 1,212 | 19 | 1.029 | 1,247 | $0.6871 | $857 |
| | | Gas | 12/4/2013 | 1/28/2015 | 26 | 13 | 1.029 | 27 | $0.6871 | $18 |
| | | Gas | 1/11/2012 | 7/30/2014 | 2,257 | 2 | 1.029 | 2,322 | $0.6871 | $1,596 |
| | | Gas | 6/27/2013 | 2/27/2014 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 2/26/2014 | 1/29/2015 | 13 | 11 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 6/26/2013 | 11/30/2014 | 5 | 5 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 1/28/2013 | 3/27/2013 | 4 | 2 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 9/26/2012 | 1/29/2015 | 107 | 27 | 1.029 | 110 | $0.6871 | $76 |
| | | Gas | 9/28/2012 | 10/29/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 8/30/2013 | 2/2/2015 | 283 | 16 | 1.029 | 291 | $0.6871 | $200 |
| | | Gas | 4/2/2013 | 2/5/2015 | 42 | 21 | 1.029 | 43 | $0.6871 | $30 |
| | | Gas | 1/8/2013 | 3/5/2013 | 53 | 2 | 1.029 | 55 | $0.6871 | $37 |
| | | Gas | 3/8/2013 | 2/5/2015 | 1,446 | 21 | 1.029 | 1,488 | $0.6871 | $1,022 |
| | | Gas | 10/3/2013 | 2/5/2015 | 15 | 2 | 1.029 | 15 | $0.6871 | $11 |
| | | Gas | 3/29/2013 | 5/5/2013 | 7 | 1 | 1.029 | 7 | $0.6871 | $5 |
| | | Gas | 1/22/2014 | 1/6/2015 | 61 | 11 | 1.029 | 63 | $0.6871 | $43 |
| | | Gas | 12/11/2012 | 2/1/2013 | 8 | 2 | 1.029 | 8 | $0.6871 | $6 |
| | | Gas | 8/6/2013 | 2/4/2014 | 17 | 5 | 1.029 | 17 | $0.6871 | $12 |
| | | Gas | 12/4/2013 | 2/5/2015 | 17 | 11 | 1.029 | 17 | $0.6871 | $12 |
| | | Gas | 12/4/2012 | 2/5/2015 | 195 | 10 | 1.029 | 201 | $0.6871 | $138 |
| | | Gas | 4/3/2013 | 7/7/2014 | 485 | 13 | 1.029 | 499 | $0.6871 | $343 |
| | | Gas | 3/20/2013 | 3/6/2014 | 39 | 10 | 1.029 | 40 | $0.6871 | $28 |
| | | Gas | 1/3/2012 | 2/5/2015 | 148 | 4 | 1.029 | 152 | $0.6871 | $105 |
| | | Gas | 5/2/2012 | 5/6/2013 | 96 | 12 | 1.029 | 99 | $0.6871 | $68 |
| | | Gas | 8/6/2013 | 10/3/2013 | 13 | 2 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 1/2/2014 | 2/5/2015 | 58 | 13 | 1.029 | 60 | $0.6871 | $41 |
| | | Gas | 2/19/2014 | 8/7/2014 | 22 | 5 | 1.029 | 23 | $0.6871 | $16 |
| | | Gas | 6/1/2013 | 3/10/2014 | 145 | 10 | 1.029 | 149 | $0.6871 | $103 |
| | | Gas | 12/6/2012 | 6/9/2014 | 21 | 9 | 1.029 | 22 | $0.6871 | $15 |
| | | Gas | 8/2/2013 | 8/7/2013 | 7 | 1 | 1.029 | 7 | $0.6871 | $5 |
| | | Gas | 7/1/2013 | 9/9/2013 | 14 | 3 | 1.029 | 14 | $0.6871 | $10 |
| | | Gas | 5/7/2012 | 11/6/2013 | 46 | 16 | 1.029 | 47 | $0.6871 | $33 |
| | | Gas | 12/2/2013 | 2/11/2015 | 3,446 | 15 | 1.029 | 3,546 | $0.6871 | $2,436 |
| | | Gas | 11/20/2012 | 10/9/2013 | 36 | 11 | 1.029 | 37 | $0.6871 | $25 |
| | | Gas | 8/8/2012 | 10/10/2012 | 4 | 2 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 3/15/2007 | 2/9/2012 | 317 | 1 | 1.029 | 326 | $0.6871 | $224 |
| | | Gas | 11/30/2013 | 7/9/2014 | 127 | 8 | 1.029 | 131 | $0.6871 | $90 |
| | | Gas | 8/8/2012 | 9/10/2012 | 2 | 1 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 5/31/2013 | 2/10/2015 | 430 | 21 | 1.029 | 442 | $0.6871 | $304 |
| | | Gas | 6/21/2013 | 2/11/2015 | 586 | 20 | 1.029 | 603 | $0.6871 | $414 |
| | | Gas | 10/23/2012 | 1/10/2013 | 202 | 3 | 1.029 | 208 | $0.6871 | $143 |
| | | Gas | 11/6/2013 | 2/10/2015 | 90 | 15 | 1.029 | 93 | $0.6871 | $64 |
| | | Gas | 2/19/2014 | 2/12/2015 | 104 | 10 | 1.029 | 107 | $0.6871 | $74 |
| | | Gas | 2/13/2013 | 3/12/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 11/8/2013 | 2/12/2015 | 3 | 3 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 8/5/2013 | 2/12/2015 | 2,282 | 19 | 1.029 | 2,348 | $0.6871 | $1,613 |
| | | Gas | 10/4/2013 | 7/14/2014 | 149 | 10 | 1.029 | 153 | $0.6871 | $105 |
| | | Gas | 4/15/2013 | 7/14/2014 | 11 | 10 | 1.029 | 11 | $0.6871 | $8 |
| | | Gas | 9/12/2013 | 4/11/2014 | 533 | 7 | 1.029 | 548 | $0.6871 | $377 |
| | | Gas | 5/1/2013 | 7/15/2014 | 386 | 11 | 1.029 | 397 | $0.6871 | $273 |
| | | Gas | 1/16/2014 | 2/12/2015 | 366 | 10 | 1.029 | 377 | $0.6871 | $259 |
| | | Gas | 1/12/2012 | 2/12/2015 | 46 | 26 | 1.029 | 47 | $0.6871 | $33 |
| | | Gas | 6/28/2013 | 2/13/2015 | 364 | 20 | 1.029 | 375 | $0.6871 | $257 |
| | | Gas | 4/29/2012 | 6/13/2012 | 7 | 1 | 1.029 | 7 | $0.6871 | $5 |
| | | Gas | 5/15/2012 | 6/14/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 12/13/2013 | 2/14/2015 | 189 | 5 | 1.029 | 194 | $0.6871 | $134 |
| | | Gas | 2/13/2012 | 11/13/2013 | 45 | 21 | 1.029 | 46 | $0.6871 | $32 |
| | | Gas | 3/14/2012 | 11/13/2013 | 69 | 20 | 1.029 | 71 | $0.6871 | $49 |
| | | Gas | 2/27/2014 | 2/14/2015 | 23 | 9 | 1.029 | 24 | $0.6871 | $16 |
| | | Gas | 9/30/2013 | 2/14/2015 | 746 | 13 | 1.029 | 768 | $0.6871 | $527 |
| | | Gas | 2/25/2014 | 2/14/2015 | 504 | 12 | 1.029 | 519 | $0.6871 | $356 |
| | | Gas | 12/10/2012 | 5/16/2013 | 3 | 2 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 9/27/2013 | 2/17/2015 | 203 | 16 | 1.029 | 209 | $0.6871 | $144 |
| | | Gas | 6/16/2013 | 2/17/2015 | 160 | 16 | 1.029 | 165 | $0.6871 | $113 |
| | | Gas | 2/15/2012 | 2/17/2015 | 96 | 35 | 1.029 | 99 | $0.6871 | $68 |
| | | Gas | 8/1/2013 | 2/17/2015 | 113 | 18 | 1.029 | 116 | $0.6871 | $80 |
| | | Gas | 1/18/2012 | 2/15/2012 | 9 | 1 | 1.029 | 9 | $0.6871 | $6 |
| | | Gas | 2/14/2012 | 6/19/2012 | 17 | 4 | 1.029 | 17 | $0.6871 | $12 |
| | | Gas | 4/8/2013 | 5/20/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 2/6/2014 | 11/17/2014 | 145 | 8 | 1.029 | 149 | $0.6871 | $103 |
| | | Gas | 2/18/2014 | 2/17/2015 | 743 | 11 | 1.029 | 765 | $0.6871 | $525 |

| PREMISE | METER | SERVICE | READING FROM | READING TO | CONSUMPTION | RDG ROWS | THERM FACTOR | THERMS | RATE | VALUE |
|---|---|---|---|---|---|---|---|---|---|---|
| [redacted] | | Gas | 8/25/2012 | 2/18/2015 | 211 | 29 | 1.029 | 217 | $0.6871 | $149 |
| | | Gas | 11/21/2013 | 2/17/2015 | 64 | 14 | 1.029 | 66 | $0.6871 | $45 |
| | | Gas | 12/20/2011 | 5/22/2012 | 385 | 5 | 1.029 | 396 | $0.6871 | $272 |
| | | Gas | 12/26/2012 | 1/22/2015 | 68 | 23 | 1.029 | 70 | $0.6871 | $48 |
| | | Gas | 2/26/2014 | 4/22/2014 | 13 | 2 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 8/1/2013 | 1/22/2015 | 775 | 17 | 1.029 | 797 | $0.6871 | $548 |
| | | Gas | 9/21/2012 | 1/22/2013 | 3 | 3 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 1/2/2014 | 1/22/2015 | 111 | 12 | 1.029 | 114 | $0.6871 | $78 |
| | | Gas | 11/19/2013 | 12/20/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 10/22/2013 | 1/22/2015 | 2,496 | 13 | 1.029 | 2,568 | $0.6871 | $1,765 |
| | | Gas | 10/22/2012 | 1/22/2015 | 69 | 13 | 1.029 | 71 | $0.6871 | $49 |
| | | Gas | 11/7/2012 | 1/22/2015 | 2,138 | 26 | 1.029 | 2,200 | $0.6871 | $1,512 |
| | | Gas | 5/7/2013 | 1/22/2015 | 24 | 13 | 1.029 | 25 | $0.6871 | $17 |
| | | Gas | 12/20/2011 | 1/22/2015 | 164 | 36 | 1.029 | 169 | $0.6871 | $116 |
| | | Gas | 6/7/2013 | 1/22/2015 | 77 | 19 | 1.029 | 79 | $0.6871 | $54 |
| | | Gas | 4/1/2012 | 6/21/2013 | 72 | 4 | 1.029 | 74 | $0.6871 | $51 |
| | | Gas | 11/13/2013 | 12/20/2013 | 59 | 1 | 1.029 | 61 | $0.6871 | $42 |
| | | Gas | 2/2/2012 | 12/23/2014 | 166 | 7 | 1.029 | 171 | $0.6871 | $117 |
| | | Gas | 5/11/2013 | 5/27/2013 | 5 | 1 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 5/31/2013 | 1/29/2015 | 454 | 20 | 1.029 | 467 | $0.6871 | $321 |
| | | Gas | 5/2/2013 | 5/28/2013 | 4 | 1 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 12/22/2011 | 1/29/2015 | 27 | 11 | 1.029 | 28 | $0.6871 | $19 |
| | | Gas | 8/27/2013 | 9/25/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 12/9/2013 | 1/29/2015 | 452 | 9 | 1.029 | 465 | $0.6871 | $320 |
| | | Gas | 8/29/2013 | 6/27/2014 | 118 | 9 | 1.029 | 121 | $0.6871 | $83 |
| | | Gas | 7/10/2012 | 9/28/2012 | 5 | 2 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 12/15/2008 | 1/30/2015 | 820 | 16 | 1.029 | 844 | $0.6871 | $580 |
| | | Gas | 7/29/2013 | 8/28/2013 | 1,197 | 17 | 1.029 | 1,232 | $0.6871 | $846 |
| | | Gas | 1/30/2014 | 1/30/2015 | 47 | 11 | 1.029 | 48 | $0.6871 | $33 |
| | | Gas | 7/1/2013 | 1/30/2015 | 243 | 18 | 1.029 | 250 | $0.6871 | $172 |
| | | Gas | 11/26/2013 | 1/29/2014 | 15 | 1 | 1.029 | 15 | $0.6871 | $11 |
| | | Gas | 8/1/2013 | 10/28/2013 | 7 | 3 | 1.029 | 7 | $0.6871 | $5 |
| | | Gas | 12/17/2012 | 3/27/2013 | 18 | 4 | 1.029 | 19 | $0.6871 | $13 |
| | | Gas | 2/28/2013 | 5/31/2013 | 9 | 3 | 1.029 | 9 | $0.6871 | $6 |
| | | Gas | 11/30/2012 | 1/2/2014 | 5 | 5 | 1.029 | 5 | $0.6871 | $4 |
| | | Gas | 6/28/2013 | 7/31/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 4/10/1999 | 2/1/2012 | 2 | 1 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 3/1/2013 | 2/2/2015 | 47 | 21 | 1.029 | 48 | $0.6871 | $33 |
| | | Gas | 7/1/2013 | 2/2/2015 | 38 | 18 | 1.029 | 39 | $0.6871 | $27 |
| | | Gas | 8/30/2012 | 10/1/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 12/30/2011 | 1/31/2012 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 8/31/2012 | 8/4/2014 | 6 | 6 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 5/21/2013 | 3/5/2014 | 83 | 9 | 1.029 | 85 | $0.6871 | $59 |
| | | Gas | 7/3/2013 | 3/5/2014 | 3 | 1 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 10/23/2012 | 12/3/2012 | 6 | 2 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 6/5/2013 | 1/6/2014 | 42 | 6 | 1.029 | 43 | $0.6871 | $30 |
| | | Gas | 6/5/2013 | 2/5/2015 | 764 | 19 | 1.029 | 786 | $0.6871 | $540 |
| | | Gas | 4/4/2013 | 2/5/2015 | 1,284 | 21 | 1.029 | 1,321 | $0.6871 | $908 |
| | | Gas | 7/3/2013 | 2/5/2015 | 2,529 | 18 | 1.029 | 2,602 | $0.6871 | $1,788 |
| | | Gas | 11/4/2012 | 2/5/2015 | 32 | 23 | 1.029 | 33 | $0.6871 | $23 |
| | | Gas | 10/4/2013 | 3/6/2014 | 378 | 4 | 1.029 | 389 | $0.6871 | $267 |
| | | Gas | 10/2/2012 | 2/5/2015 | 130 | 24 | 1.029 | 134 | $0.6871 | $92 |
| | | Gas | 6/6/2012 | 5/6/2013 | 43 | 7 | 1.029 | 44 | $0.6871 | $30 |
| | | Gas | 9/5/2013 | 2/5/2015 | 4 | 4 | 1.029 | 4 | $0.6871 | $3 |
| | | Gas | 1/3/2014 | 4/3/2014 | 3 | 2 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 9/27/2013 | 5/6/2014 | 2,663 | 6 | 1.029 | 2,740 | $0.6871 | $1,883 |
| | | Gas | 11/4/2013 | 12/5/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 10/3/2013 | 8/5/2014 | 44 | 9 | 1.029 | 45 | $0.6871 | $31 |
| | | Gas | 12/5/2013 | 4/4/2014 | 43 | 3 | 1.029 | 44 | $0.6871 | $30 |
| | | Gas | 6/6/2012 | 9/5/2014 | 3 | 3 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 10/21/2013 | 11/4/2013 | 3 | 1 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 1/6/2012 | 3/6/2012 | 31 | 2 | 1.029 | 32 | $0.6871 | $22 |
| | | Gas | 10/7/2013 | 2/7/2015 | 236 | 16 | 1.029 | 243 | $0.6871 | $167 |
| | | Gas | 1/23/2014 | 2/7/2015 | 351 | 13 | 1.029 | 361 | $0.6871 | $248 |
| | | Gas | 3/11/2002 | 2/5/2013 | 2,098 | 11 | 1.029 | 2,159 | $0.6871 | $1,483 |
| | | Gas | 5/31/2013 | 3/10/2014 | 446 | 10 | 1.029 | 459 | $0.6871 | $315 |
| | | Gas | 4/8/2013 | 1/8/2015 | 3 | 3 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 9/1/2013 | 2/10/2015 | 132 | 18 | 1.029 | 136 | $0.6871 | $93 |
| | | Gas | 5/17/2013 | 2/11/2015 | 1,473 | 21 | 1.029 | 1,516 | $0.6871 | $1,041 |
| | | Gas | 10/25/2013 | 12/10/2014 | 1,588 | 12 | 1.029 | 1,634 | $0.6871 | $1,123 |
| | | Gas | 10/10/2012 | 2/6/2013 | 35 | 4 | 1.029 | 36 | $0.6871 | $25 |
| | | Gas | 1/9/2012 | 2/10/2015 | 2,786 | 28 | 1.029 | 2,867 | $0.6871 | $1,970 |
| | | Gas | 9/15/2005 | 2/10/2015 | 14 | 12 | 1.029 | 14 | $0.6871 | $10 |

| PREMISE | METER | SERVICE | READING FROM | READING TO | CONSUMPTION | RDG ROWS | THERM FACTOR | THERMS | RATE | VALUE |
|---|---|---|---|---|---|---|---|---|---|---|
| [redacted] | | Gas | 11/27/2013 | 2/11/2015 | 357 | 15 | 1.029 | 367 | $0.6871 | $252 |
| | | Gas | 1/12/2014 | 2/11/2015 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 1/10/2012 | 2/11/2015 | 357 | 36 | 1.029 | 367 | $0.6871 | $252 |
| | | Gas | 1/10/2012 | 12/10/2012 | 16 | 10 | 1.029 | 16 | $0.6871 | $11 |
| | | Gas | 10/30/2013 | 2/10/2015 | 101 | 14 | 1.029 | 104 | $0.6871 | $71 |
| | | Gas | 2/14/2014 | 2/12/2015 | 236 | 12 | 1.029 | 243 | $0.6871 | $167 |
| | | Gas | 8/14/2012 | 1/13/2015 | 13 | 13 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 10/15/2013 | 1/13/2014 | 280 | 3 | 1.029 | 288 | $0.6871 | $198 |
| | | Gas | 4/25/2013 | 10/10/2013 | 38 | 6 | 1.029 | 39 | $0.6871 | $27 |
| | | Gas | 10/10/2013 | 2/12/2015 | 3 | 3 | 1.029 | 3 | $0.6871 | $2 |
| | | Gas | 8/13/2013 | 11/8/2014 | 2 | 2 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 6/25/2009 | 2/12/2015 | 7,697 | 16 | 1.029 | 7,920 | $0.6871 | $5,442 |
| | | Gas | 1/14/2014 | 2/13/2015 | 239 | 13 | 1.029 | 246 | $0.6871 | $169 |
| | | Gas | 1/12/2012 | 1/14/2015 | 622 | 11 | 1.029 | 640 | $0.6871 | $440 |
| | | Gas | 11/1/2012 | 7/16/2013 | 9 | 1 | 1.029 | 9 | $0.6871 | $6 |
| | | Gas | 11/11/2013 | 4/13/2014 | 164 | 5 | 1.029 | 169 | $0.6871 | $116 |
| | | Gas | 8/23/2013 | 12/13/2013 | 34 | 4 | 1.029 | 35 | $0.6871 | $24 |
| | | Gas | 6/27/2009 | 2/14/2015 | 19 | 3 | 1.029 | 20 | $0.6871 | $13 |
| | | Gas | 4/25/2013 | 12/12/2014 | 124 | 20 | 1.029 | 128 | $0.6871 | $88 |
| | | Gas | 10/2/2012 | 2/14/2015 | 55 | 2 | 1.029 | 57 | $0.6871 | $39 |
| | | Gas | 2/25/2014 | 2/14/2015 | 90 | 12 | 1.029 | 93 | $0.6871 | $64 |
| | | Gas | 12/5/2013 | 2/12/2014 | 40 | 3 | 1.029 | 41 | $0.6871 | $28 |
| | | Gas | 11/12/2013 | 2/14/2015 | 60 | 13 | 1.029 | 62 | $0.6871 | $42 |
| | | Gas | 7/16/2013 | 8/15/2014 | 9 | 4 | 1.029 | 9 | $0.6871 | $6 |
| | | Gas | 2/14/2013 | 2/16/2015 | 25 | 24 | 1.029 | 26 | $0.6871 | $18 |
| | | Gas | 10/24/2013 | 2/20/2015 | 1,618 | 15 | 1.029 | 1,665 | $0.6871 | $1,144 |
| | | Gas | 5/31/2012 | 12/17/2014 | 846 | 20 | 1.029 | 871 | $0.6871 | $598 |
| | | Gas | 10/17/2013 | 2/19/2015 | 195 | 12 | 1.029 | 201 | $0.6871 | $138 |
| | | Gas | 8/9/2013 | 2/19/2015 | 148 | 18 | 1.029 | 152 | $0.6871 | $105 |
| | | Gas | 3/26/2013 | 2/17/2015 | 11 | 9 | 1.029 | 11 | $0.6871 | $8 |
| | | Gas | 2/14/2012 | 11/15/2012 | 40 | 9 | 1.029 | 41 | $0.6871 | $28 |
| | | Gas | 9/4/2013 | 2/18/2015 | 115 | 17 | 1.029 | 118 | $0.6871 | $81 |
| | | Gas | 4/11/2013 | 2/18/2015 | 824 | 21 | 1.029 | 848 | $0.6871 | $583 |
| | | Gas | 10/1/2012 | 2/18/2015 | 153 | 28 | 1.029 | 157 | $0.6871 | $108 |
| | | Gas | 2/22/2013 | 2/18/2015 | 69 | 23 | 1.029 | 71 | $0.6871 | $49 |
| | | Gas | 10/17/2013 | 10/16/2014 | 82 | 11 | 1.029 | 84 | $0.6871 | $58 |
| | | Gas | 4/17/2012 | 1/20/2015 | 13 | 13 | 1.029 | 13 | $0.6871 | $9 |
| | | Gas | 10/16/2013 | 12/17/2014 | 6 | 6 | 1.029 | 6 | $0.6871 | $4 |
| | | Gas | 11/6/2013 | 9/7/2014 | 10 | 8 | 1.029 | 10 | $0.6871 | $7 |
| | | Gas | 9/15/2013 | 9/19/2013 | 2 | 1 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 2/16/2012 | 11/19/2014 | 14 | 14 | 1.029 | 14 | $0.6871 | $10 |
| | | Gas | 12/20/2011 | 1/23/2015 | 138 | 12 | 1.029 | 142 | $0.6871 | $98 |
| | | Gas | 12/21/2012 | 3/20/2013 | 50 | 1 | 1.029 | 51 | $0.6871 | $35 |
| | | Gas | 12/11/2013 | 12/21/2013 | 2 | 1 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 8/21/2013 | 10/22/2013 | 1 | 1 | 1.029 | 1 | $0.6871 | $1 |
| | | Gas | 2/14/2014 | 1/22/2015 | 389 | 10 | 1.029 | 400 | $0.6871 | $275 |
| | | Gas | 9/30/2012 | 12/22/2014 | 331 | 16 | 1.029 | 341 | $0.6871 | $234 |
| | | Gas | 1/23/2013 | 1/22/2015 | 89 | 23 | 1.029 | 92 | $0.6871 | $63 |
| | | Gas | 3/12/2013 | 1/22/2015 | 811 | 22 | 1.029 | 835 | $0.6871 | $573 |
| | | Gas | 11/5/2012 | 1/22/2015 | 64 | 24 | 1.029 | 66 | $0.6871 | $45 |
| | | Gas | 4/30/2013 | 1/22/2015 | 694 | 20 | 1.029 | 714 | $0.6871 | $491 |
| | | Gas | 2/21/2014 | 1/22/2015 | 808 | 10 | 1.029 | 831 | $0.6871 | $571 |
| | | Gas | 2/18/2014 | 1/25/2015 | 36 | 11 | 1.029 | 37 | $0.6871 | $25 |
| | | Gas | 6/27/2013 | 7/26/2013 | 2 | 1 | 1.029 | 2 | $0.6871 | $1 |
| | | Gas | 10/31/2013 | 1/29/2015 | 232 | 6 | 1.029 | 239 | $0.6871 | $164 |
| | | Gas | 2/28/2014 | 1/29/2015 | 121 | 6 | 1.029 | 125 | $0.6871 | $86 |
| | | Gas | 12/27/2012 | 1/29/2015 | 25 | 18 | 1.029 | 26 | $0.6871 | $18 |

REDACTED



| Company # | Premise # | Last Reading |
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| 49 | | 2/13/2012 |
| 49 | | 2/24/2012 |
| 49 | | 3/7/2012 |
| 49 | | 3/13/2012 |
| 49 | | 3/15/2012 |
| 49 | | 3/19/2012 |
| 49 | | 3/26/2012 |
| 49 | | 4/17/2012 |
| 49 | | 5/3/2012 |
| 49 | | 5/11/2012 |
| 49 | | 5/23/2012 |
| 49 | | 5/31/2012 |
| 49 | | 6/8/2012 |
| 49 | | 6/14/2012 |
| 49 | | 6/29/2012 |
| 49 | | 7/9/2012 |
| 49 | | 7/11/2012 |
| 49 | | 7/23/2012 |
| 49 | | 8/1/2012 |
| 49 | | 8/1/2012 |
| 49 | | 8/6/2012 |
| 49 | | 8/21/2012 |
| 49 | | 8/22/2012 |
| 49 | | 8/29/2012 |
| 49 | | 8/29/2012 |
| 49 | | 9/9/2012 |
| 49 | | 9/24/2012 |
| 49 | | 10/3/2012 |
| 49 | | 10/17/2012 |
| 49 | | 10/26/2012 |
| 49 | | 10/29/2012 |
| 49 | | 11/4/2012 |
| 49 | | 11/7/2012 |
| 49 | | 11/8/2012 |
| 49 | | 11/28/2012 |
| 49 | | 12/5/2012 |
| 49 | | 12/10/2012 |
| 49 | | 12/11/2012 |
| 49 | | 12/12/2012 |
| 49 | | 12/19/2012 |
| 49 | | 12/24/2012 |
| 49 | | 1/7/2013 |
| 49 | | 1/16/2013 |
| 49 | | 1/22/2013 |

| Company # | Premise # | Last Reading |
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| 49 | [redacted] | 2/14/2013 |
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| 49 | [redacted] | 3/8/2013 |
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| 49 | [redacted] | 4/4/2013 |
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| 49 | [redacted] | 4/25/2013 |
| 49 | [redacted] | 5/6/2013 |
| 49 | [redacted] | 5/6/2013 |
| 49 | [redacted] | 5/13/2013 |
| 49 | [redacted] | 5/14/2013 |
| 49 | [redacted] | 5/14/2013 |
| 49 | [redacted] | 5/22/2013 |
| 49 | [redacted] | 5/22/2013 |
| 49 | [redacted] | 6/18/2013 |
| 49 | [redacted] | 7/3/2013 |
| 49 | [redacted] | 7/8/2013 |
| 49 | [redacted] | 7/10/2013 |
| 49 | [redacted] | 7/10/2013 |
| 49 | [redacted] | 7/10/2013 |
| 49 | [redacted] | 7/11/2013 |
| 49 | [redacted] | 7/12/2013 |
| 49 | [redacted] | 7/15/2013 |
| 49 | [redacted] | 7/16/2013 |
| 49 | [redacted] | 7/17/2013 |
| 49 | [redacted] | 8/1/2013 |
| 49 | [redacted] | 8/6/2013 |
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| 49 | [redacted] | 8/23/2013 |
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| 49 | [redacted] | 9/11/2013 |
| 49 | [redacted] | 9/13/2013 |
| 49 | [redacted] | 9/13/2013 |
| 49 | [redacted] | 9/19/2013 |
| 49 | [redacted] | 9/26/2013 |
| 49 | [redacted] | 10/3/2013 |
| 49 | [redacted] | 10/19/2013 |
| 49 | [redacted] | 10/22/2013 |

REDACTED



| Company # | Premise # | Last Reading |
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| 49 | | 10/24/2013 |
| 49 | | 10/24/2013 |
| 49 | | 10/31/2013 |
| 49 | | 10/31/2013 |
| 49 | | 11/6/2013 |
| 49 | | 11/6/2013 |
| 49 | | 11/7/2013 |
| 49 | | 11/12/2013 |
| 49 | | 11/18/2013 |
| 49 | | 12/2/2013 |
| 49 | | 12/10/2013 |
| 49 | | 12/12/2013 |
| 49 | | 12/16/2013 |
| 49 | | 12/21/2013 |
| 49 | | 12/21/2013 |
| 49 | | 12/26/2013 |
| 49 | | 12/27/2013 |
| 49 | | 12/31/2013 |
| 49 | | 1/7/2014 |
| 49 | | 1/8/2014 |
| 49 | | 1/8/2014 |
| 49 | | 1/9/2014 |
| 49 | | 1/9/2014 |
| 49 | | 1/16/2014 |
| 49 | | 1/16/2014 |
| 49 | | 1/23/2014 |
| 49 | | 1/23/2014 |
| 49 | | 1/30/2014 |
| 49 | | 2/4/2014 |
| 49 | | 2/6/2014 |