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ORIGINAL

COMPLIANCE ITEM
SYSTEM WATER LOSS PLAN
(DOCKET NO. W-01782A-14-0084

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AZ CORP COMMISSION
DOCKET CONTROL

Decision #74869

Per decision #74869, test year 2012, wherein Abra Water Company, Inc. (the Company) is ordered to file a report containing a detailed analysis and plan to reduce its system water loss to 10 percent or less, the Company submits the following:

Arizona Corporation Commission

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MAR 17 2015

Analysis:

- 2010 Water Loss: 9.38%
- 2011 Water Loss: 9.02%
- 2012 Water Loss: 12.32%
- 2013 Water Loss: 16.72%
- 2014 Water Loss: 13.75%

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(The above percentages reflect all water loss, known and unknown)

The Company reviewed it's water leak repairs over the past 2 years and determined the following causes for water loss:

- Improper bedding around an old water main resulting in a broken pipe.
- 4 old improperly installed service connections.
- 50 year old water main tap began leaking. Had been leaking a very long time but did not surface.
- Faulty main line tap for a service connection.
- Previous repair from a break caused by the local cable company began leaking.
- An individual doing road repair hit a service line with a backhoe.
- Local contractor hit a service line with backhoe.
- An old black plastic water line installed in the 1960s occasionally leaks.
- Septic pumping tank ran over a meter box breaking the service.
- Broken service line valve at main line tap.
- Tree roots grew under a service line and pushed it upward until it cracked.
- 11 meters determined to be inaccurate or stopped working.
- Water haul standpipe was not secured and there could have been possible theft.
- A customer cut off the lock to his service that was shut off for non-payment and jacked in a pipe to bypass the meter. (Customer went to jail.)

Plan:

From the previous analysis, it was evident that there were several causes for water loss, some were preventable, others unavoidable. The Company has already taken the following actions to reduce water loss:

- Built a security fence around the water haul standpipe to secure it from theft.
- Replaced portions of the old 1960s black plastic water line.

-Implemented a water meter replacement program to replace old and high register meters. To date, 139 of the 632 meters have been replaced.

The Company has determined to implement the following in an effort to reduce water loss:

- Inspect all water main installations at various stages of construction to insure installations are completed according to Company specifications.
- Inspect all main line taps and service line installations to insure they are completed according to Company specifications.
- Continue its meter replacement program by systematically replacing water meters that turn 1,500,000 gallons.
- Review the monthly billing reports and inspect all meters that become suspect.
- Continue to immediately replace any meter that is known to be inaccurate or broken.
- Implement BMP 5.2, the Water System Tampering Tariff, and annually inspect the distribution system looking specifically for illegal connections.
- Conduct a daily visual inspection of all of the Company's pumping and storage facilities.
- Conduct a monthly visual surface inspection of the Company's entire distribution system.
- Continue to repair known water leaks or sources of water loss within 48 hours.
- Track all known water loss to increase the accuracy of unknown water loss amounts.
- Lease a backhoe and dig exploratory excavations of suspect locations.
- Implement a 48 hour target goal to repair all water line breaks.
- If and when funds become available, replace the remaining 1960s black plastic water line.