DUCTILE IRON PIPE
RESEARCH ASSOCIATION

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June 23, 2009

Mr. Chris Lawton
BARTON & LOGUIDICE, P.C.
290 Elwood Davis Rd.
Liverpool, NY 13088

Re: Stray Current Investigation
Marcellus, New York

Dear Chris:

It was a pleasure to meet with you on Tuesday, June 16, 2009, to discuss and evaluate the stray current potential to a newly installed polyethylene encased water main in Marcellus, New York.. The investigation was conducted in response to a letter from Tennessee Gas Company and Dominion Gas Company, with concerns over potential stray current. The Dominion Gas main is protected with galvanic anodes, while the Tennessee Gas main is cathodically protected with an impressed current system. The anode bed and rectifier are approximately 4 miles from the point of closest proximity to the water main and the water main crosses both pipelines at one location. While this distance would be considered remote, a potential gradient survey was conducted to confirm that stray current potential in this case would be minimal. The potential from galvanic cathodic protection is insignificant.

A potential gradient survey was conducted for 200 feet along the water pipeline at the crossings on Bishop Hill Road and for 200 feet at the point of closest proximity to the anode bed on Lawrence Road, to ascertain the potential for stray current damage. The investigation revealed that the potential for stray current was minimal at both locations.

The normal recommendation for this situation would be polyethylene encasement for 20 feet on either side of the gas main crossing. As noted above, the water main was installed with polyethylene encasement, therefore, the recommendations for this installation have been met.

It has been a pleasure to be of service to you on this investigation. It was also a pleasure to conduct the Lunch and Learn presentation on Stray Current Corrosion later that day in your office. I trust the presentation was informative. Please feel free contact me if I can be of any further assistance on this or other projects.

Sincerely,

Earl J. Brown, P.E.
Sr. Regional Engineer
NACE International Certified Corrosion Specialist