



THE CITY OF  
**CALGARY**  
WATER RESOURCES

November 16, 2009

**CEMATRIX (Canada) Inc.**  
5440 - 53<sup>rd</sup> Street SE  
Calgary, AB T2C 4B6  
Canada

**Attention:** Steve Bent  
Vice President and GM

Dear Sir:

**Re: The City of Calgary  
Water Resources  
Use and History of Cematrix as Reference**

The City of Calgary Water Resources (WR) has an extensive history with Cematrix going back to the year 2000.

My first introduction to Cematrix was when our Streets Division (now Roads) was evaluating it for use under pavement, curbs and sidewalks in the Brentwood subdivision of Northwest Calgary due to the heaving soils which were also causing severe problems with our watermain replacement road rehabilitation.

I saw an immediate use for 475 kg / cubic metre Cematrix as an insulation product as well as structural protection for shallow buried large diameter watermains which we refer to as feeder mains (500mm to 2100mm). The product has now been used on many feeder main projects both new and in-situ with great success.

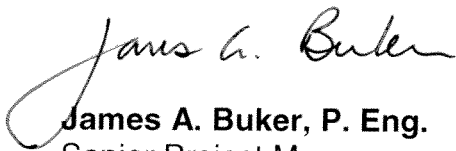
In 2002, I requested CH2MHill to work with Cematrix on the East Trunk project where many watermains were to be crossed by a significantly large duct on residential streets. The previous standard was welded steel pipe to go under but I wanted to see PVC go over with restraint and then insulation. Cematrix took this custom task to hand and did technical design and research to expedite my recommendation with excellent results and no issues since construction completion. This is a custom design which I am now trying to get into our Standard Specifications because of its success and ease of construction to meet the growing demand for these types of alterations.

Subsequent to this project, Cematrix worked Dr. Walter Dilger of the University of Calgary to fine tune design and specifications to be incorporated in the Standard Specifications Waterworks Construction for the installation or protection of shallow bury watermains.

2009/11/17  
Cematrix

Cematrix provides a high level of confidence from an Owner's perspective because of their product performance; and their technical and research capabilities to provide site specific design and specifications and not work off generic plans. I do not hesitate to refer Engineering Consultants to Cematrix for project specific applications when I see the need.

Yours sincerely,



**James A. Buker, P. Eng.**  
Senior Project Manager  
Project Engineering - Underground  
Infrastructure Delivery  
Utilities and Environmental Protection  
Water Resources #436

Cc Doug Lavis, Cematrix