



December 1, 1995

Roadbond Service Company, Inc.  
P.O. Box 1355  
Weatherford, Texas 76086

Attention: Mr. Steve Merritt

Reference: City of Oakridge North

Dear Mr. Merritt:

During the summer of 1994, QC Laboratories, Inc. was retained as project manager and testing laboratory for the reconstruction of all streets within the City of Oakridge North. That responsibility included the design of a new pavement structure that would fall within the City's budget. This was accomplished by using Portland cement enhanced with EN1.

The engineer for the city was not comfortable using a "new" product and eliminated the EN1 from the initial design. Experience has shown that normal amounts of Portland cement (8 to 10 percent) will result in shrinkage cracks that will reflect in the asphaltic concrete surface. To control the cracking it is necessary to reduce the cement content but this will also reduce the strength of the stabilized materials. EN1 roadbase stabilizer was specified to compensate for this loss in strength.

When the project neared 50% completion the city manager complained that the pavement was beginning to show evidence of cracking. It was explained that this was a direct result of the use of Portland cement. The city manager was reminded that the original design incorporating EN1 was recommended because of the likelihood of subgrade shrinkage problems.

The city manager decide to use the original pavement design with EN1. The project was completed within two months and no further cracking was observed in the subgrade using EN1. The City did have to go back to the first half of the project and seal all of the cracks in the pavement without EN1.

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Also, during the construction of several roads using EN1 the City experienced a major flood. Some of the newly constructed EN1 stabilized roadway was undercut by the flood waters and to everyone surprise the roadway held up. (see attached photo).

QC Laboratories, Inc. now specifies EN1 roadbase stabilizer for all pavement rehabilitation projects. EN1 roadbase stabilizer enhances the strength characteristics of cement stabilization, reduces water penetration into the subgrade, and saves the clients construction dollars.

If you or any of your clients have any questions, please do not hesitate to call on us.

Very Truly Yours,



Robert D. Smith Jr., SET  
President

RDS/ms