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AUG 23 1989

Winston-Salem  
Regional Office

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
P.O. BOX 25201  
RALEIGH 27611-5201

JAMES G. MARTIN  
GOVERNOR

August 22, 1989

DIVISION OF HIGHWAYS

JAMES E. HARRINGTON  
SECRETARY

GEORGE E. WELLS, P.E.  
STATE HIGHWAY ADMINISTRATOR

Mr. John Stewart  
Hydrogeological Regional Supervisor  
N. C. Dept. of NRCO, Division of Environmental  
Management  
Winston Salem Regional Office  
8025 North Point Boulevard  
Winston Salem, North Carolina 27106

Dear Mr. Stewart:

The N. C. Department of Transportation, as you are aware, has a quantity of petroleum contaminated soil currently aerating on a parcel of land off Old Salisbury Road in Winston Salem. This soil has been aerating for over a year and numerous samples have been obtained which indicate that volatilization of the hydrocarbon constituents is occurring very slowly.

As the letting date of this portion of the I-40 Winston Salem By-Pass is approaching, we propose the following method of disposal of this material.

We estimate the quantity of soil to be 50-75 cubic yards. A quantity of cement equal to 10% of the total weight of the soil will be mixed with the soil. The resulting mixture will be placed in an eight inch lift in a dry embankment away from the water table where it will be immobilized for the life of the highway.

Attached for your information is a copy of the latest sample results from this stockpile area. As you can see, concentrations vary within the pile and the total volume of soil with high concentrations is probably less than the previously mentioned quantity.

We will assume that this method meets with your approval if we do not hear otherwise before the project is let.

Sincerely,

Douglas E. Howey  
Hazardous Waste Specialist

DEH/sdt  
Attachments  
cc: Mr. Henry T. Moon, III  
Mr. George Gibson  
Mr. W. D. Bingham



IEA LABORATORY RESULTS

IEA Project #: 302-089  
Client Name: N.C. Dept. of Transportation

Sample #	Client ID	Parameter	Results	Date Analyzed
1	1-789	Petroleum Hydrocarbons by GC	240 mg/kg*	07/30/89
2	2-789	Petroleum Hydrocarbons by GC	23 mg/kg*	07/30/89

Comments:

\*The sample contains a petroleum hydrocarbon blend with a distillation range similar to #2 fuel oil. The sample also contains peaks outside the analytical range of the method.