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*AGENCY OF
NATURAL
RESOURCES*

MEMORANDUM

From: Chuck Schwer, Supervisor, Sites Management Section
To: Vermont Environmental Professionals
Date: May 3, 2007
RE: Please add ethylene dibromide (EDB) and 1,2 dichloroethane (1,2 DCA)

The Vermont Department of Environmental Conservation, Sites Management Section (SMS) has decided to add the chemicals ethylene dibromide (EDB) and 1,2 dichloroethane (1,2 DCA) to the list of chemicals that should be analyzed during initial site investigations and routine groundwater monitoring at petroleum contaminated sites in Vermont. These two chemicals of concern (CoCs) were used as lead scavengers in leaded gasoline, and recent findings in other parts of the country have unexpectedly turned up these CoCs at leaking underground storage tank (LUST) sites.

The SMS has discussed adding these analytes to existing GC/MS analyses (EPA Method 8021 and 8260), with several Vermont laboratories, and they have said that they can perform these analyses of these compounds with existing equipment. The SMS would like to have these analyses performed at all existing LUST sites over the next year. The detection limit for these compounds without dilution is around 1 ug/l. The federal MCL for these compounds is 0.05 ug/l for EDB and 5 ug/l for 1,2 DCA. Because of this, at sites where drinking water supplies have been or may be affected, the SMS has further decided that an analysis for EDB with a lower detection limit should be used. This analysis is EPA Method 8011 for environmental samples and EPA Method 504 for drinking water samples. The detection limit for both of these analyses in undiluted samples is below the federal MCL.



The results of this work should be submitted with the required routine reports which consultants are generating as part of site work. Costs for performing this work are a reimbursable expense under the Vermont Petroleum Cleanup Fund. Vermont labs have indicated that there would be no additional cost for adding these target compounds to normal volatile organic analysis (EPA Methods 8021 and 8260). The maximum reimbursement rate for EPA Method 8011 and EPA Method 504 is \$120 per sample. Please plan on adding these chemicals to the list of CoCs you are measuring at LUST sites.

Please feel free to contact me if you have any questions regarding this testing. Thank you for your assistance with this project.