



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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May 4, 2007

Dr. Henry A. Anderson, Chief Medical Officer
Bureau of Public Health
Department of Health and Family Services
1 West Wilson St.
Madison, WI, 53701-2659

Subject: Request for Health Advisory Levels for Dinitrotoluene (DNT) Isomers: 2,3-DNT; 2,5-DNT; 3,4-DNT & 3,5-DNT

Dear Dr. Anderson:

Staff from the Department's South Central Region Remediation & Redevelopment (R&R) Program have requested health advisory level/interim groundwater standard recommendations for: 2,3-Dinitrotoluene (2,3-DNT) [CAS RN 602-01-7], 2,5-Dinitrotoluene (2,5-DNT) [CAS RN 619-15-8], 3,4-Dinitrotoluene (3,4-DNT) [CAS RN 610-39-9] and 3,5-Dinitrotoluene (3,5-DNT) [CAS RN 618-85-9]. Established health advisory levels/interim groundwater standards will assist the R&R Program in regulating sites where groundwater has been found to be contaminated with these substances.

A search of the Department's Groundwater Retrieval Network (GRN) and Groundwater and Environmental Monitoring System (GEMS) databases shows that the 2,3-DNT, 2,5-DNT, 3,4-DNT and 3,5-DNT isomers of dinitrotoluene have been found in monitoring and water supply wells at the Badger Army Ammunition Plant (BAAP) site. The 2,3-DNT isomer has been detected in 103 wells (3 private water supply and 100 monitoring/groundwater extraction), at concentrations as high as 2,200 µg/L. The 3,4-DNT isomer has been detected in 37 wells (1 private water supply and 36 monitoring) at concentrations as high as 419 µg/L. The 3,5-DNT isomer has been detected in 20 wells (1 private water supply and 19 monitoring) at concentrations as high as 23.9 µg/L. The 2,5-DNT isomer has been detected in 19 wells (1 private water supply and 18 monitoring) at concentrations as high as 1.5 µg/L.

Please review available information on these substances and develop health advisory levels/interim groundwater standards if data supports development of such standards. Thank you.

Sincerely,

Todd L. Ambis, Administrator
Division of Water

cc: Jill Jonas - DG/2
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