



DEPARTMENT OF THE ARMY
US ARMY INSTALLATION MANAGEMENT COMMAND
US ARMY ENVIRONMENTAL COMMAND
2450 CONNELL ROAD
JOINT BASE SAN ANTONIO FORT SAM HOUSTON, TX 78234-7664

IMAE-M

October 8, 2019

SUBJECT: Submittal of August 2019 Annual Residential Well Testing Results
Badger Army Ammunition Plant

Mr. Jason Lowery
Wisconsin Department of Natural Resources
GEF2 Central Office
PO Box 7921
Madison, WI 53707-7921

Dear Mr. Lowery:

Enclosed are the Badger Army Ammunition Plant (BAAP) August 2019 Annual Residential Well Testing Results from 57 residential wells. Enclosed are copies of the signed Environmental Monitoring Data Certification Form, a list of wells sampled, three maps showing the well locations, and a residential well results summary spreadsheet. Per previous discussions, the Army understands that the WDNR will be mailing the results to each well owner.

SpecPro Professional Services, LLC (SPS) collected groundwater samples from 57 residential wells on August 13, 14, 19, 20, 21, 22, and 28, 2019. As shown on Figures 1, 2, and 3, the 57 sampled residential wells are distributed to the east and south of BAAP. Fifty-three residential wells were sampled in accordance with the annual sampling WDNR Plan Modification of the Groundwater Monitoring Program dated September 4, 2013. The Howery residential well could not be sampled due to their well pump being disconnected. Four residential wells, E12075, E12727, S8962, and S9190, were sampled as part of a special sampling event that was offered by the Army.

Sampling Results

- 2,6-Dinitrotoluene (DNT) and total DNT were detected above the NR 140 Preventive Action Limit (PAL) but below the NR 140 Enforcement Standard (ES) in residential well WE-XK342 located in the Central Plume (see Figure 3). WE-XK342 has a history of 2,6-DNT detections above the NR 140 PAL. The Army is proposing to increase the sampling frequency of residential well WE-XK342 from annually to quarterly. The remaining 16 residential wells located in the Water's Edge Subdivision will continue to be sampled annually.

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- Carbon tetrachloride (CTET) was detected above the NR 140 PAL but below the NR 140 ES in one residential well (Schlender) located east of the Propellant Burning Ground Plume (see Figure 1).
- Chloroform was detected above the NR 140 PAL but below the NR 140 ES in three residential wells (E12075, WE-SQ017, and WE-SQ001) located near Gruber's Grove Bay (see Figure 3).
- Trichloroethene (TCE) was detected above the NR 140 PAL but below the NR 140 ES in one residential well (Wenger) located north of Weigand's Bay (see Figure 2). There has been no source of TCE identified at BAAP that is upgradient of the Weigand's Bay area. The source of the TCE appears to be the shallow well jet pump.

Quality Review

All groundwater samples were analyzed by CT Laboratories, LLC (CT Lab) in Baraboo, Wisconsin. CT Lab is a WDNR Chapter NR 149 certified laboratory and accredited by the Department of Defense Environmental Laboratory Accreditation Program (DoD ELAP). The SPS chemist conducted an internal quality control review of the groundwater data and did not identify any data quality issues.

Please do not hesitate to contact me at 210-466-1684 if you have any questions.

Sincerely,

Linda B. Albrecht

for Bryan P. Lynch
Commander's Representative

Enclosure

Copy furn: Joel Janssen, SpecPro Professional Services, LLC