



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

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April 25, 2017

Mr. Jim McKenna
Radford Army Ammunition Plant
Route 114, P.O. Box 1
Radford, Virginia 24143-0100

VIA ELECTRONIC MAIL

**Re: 2016 Annual Groundwater Monitoring Report for HWMUs 5 & 16
Radford Army Ammunitions Plant
Route 114, Radford, Virginia 24141
EPA ID#: VA1210020730**

Dear Mr. McKenna:

This letter acknowledges the receipt and review of the 2016 Annual Groundwater Monitoring Report for HWMUs 5 & 16 dated February 2017, submitted to the Virginia Department of Environmental Quality (Department), Office of Remediation Programs (Department) by BAE Systems on behalf of the Radford Army Ammunitions Plant (RFAAP).

It appears that no new targeted constituents were detected during the groundwater monitoring activities conducted during the second or fourth quarters of 2016 for Hazardous Waste Management Unit (HWMU) 5. However, during second quarter 2016 monitoring event at HWMU-16, tetrahydrofuran, cyanide, and vinyl chloride were detected at concentrations ranging from 2.2 to 13 micrograms per liter (ug/l), 8.5 to 19 ug/l, and 0.2 ug/l, respectively. Verification sampling was performed to confirm these detections and tetrahydrofuran was the only constituent that was confirmed. The Department understands that a Class 1 Permit Modification to add tetrahydrofuran to the Compliance Monitoring List for HWMU-16 has already been submitted and approved.

In addition, during Second and Fourth Quarters of 2016, total cobalt was detected in point of compliance well 16WC1B at concentrations of 35 ug/l and 15 ug/l. Also During Fourth Quarter 2016, total cobalt was detected in point of compliance well 16CW1A at a concentration of 6 ug/l. It is also understood that during the Second Quarter 2016 monitoring event, total cobalt was initially detected in point of compliance well 16MW9 at a concentration of 5.5 ug/l, but that detection was not confirmed during verification sampling.

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RFAAP had previously submitted an Alternate Source Demonstration (ASD) to the Department indicating that the detections of cobalt in this well were due to natural variation. As the report points out, the Department has approved the combination of the ASD for wells 16WC1A, 16WC1B, and 16MW9. Monitoring of these three wells should continue through 2017 with a revised ASD to be submitted in Spring 2018.

As previously discussed, the Department acknowledges the presence of barium above the site-specific background concentration. The Department recognizes the variability of the lithology in the area of HWMU-16 that could potentially account for the natural variation of this trace element. No further investigation is required at this time; however, the Department may request further investigation if the barium levels in groundwater increase in the future.

If you have any additional technical questions, you may contact me at 703-583-3825 or by email at Kurt.Kochan@deq.virginia.gov.

Sincerely,



Kurt W. Kochan
Corrective Action Project Manager
Office of Remediation Programs

cc: RFAAP Correspondence File
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