

From: [Kochan, Kurt \(DEQ\)](#)
To: [Mckenna, James J CIV \(US\)](#)
Cc: [Hawks, Jody \(US\)](#); [Hendon, Bill \(US\)](#); [Cutler, Jim \(DEQ\)](#); [Lohman, Elizabeth \(DEQ\)](#); Mcgoldrick.catherine@epa.gov; [Fisher, Brett \(DEQ\)](#); [Scott, Ashby \(DEQ\)](#)
Subject: [Non-DoD Source] SWMU 49 Final Report Year 1 MNA
Date: Tuesday, July 18, 2017 5:37:55 AM
Attachments: [VA1210020730_DEQ_corr_49_2017-7-18.pdf](#)

Jim-

Please see attached correspondence regarding the referenced report. Please let me know if you have any questions.
Thanks.

Kurt W. Kochan
Corrective Action Project Manager
Virginia Department of Environmental Quality
Office of Remediation Programs
P.O. Box 1105
Richmond, VA 23218
(703) 583-3825



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 629 East Main Street, Richmond, Virginia 23219

Mailing address: P.O. Box 1105, Richmond, Virginia 23218

www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

(804) 698-4020
1-800-592-5482

July 18, 2017

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

VIA ELECTRONIC MAIL

**Re: Final SWMU 49 Monitored Natural Attenuation Sampling Year One Report
Radford Army Ammunitions Plant
Route 114, Radford, Virginia 24141
EPA ID#: VA1210020730**

Dear Mr. McKenna:

This letter acknowledges the receipt and review of the Final SWMU 49 Monitored Natural Attenuation Sampling Year One Report (Report), submitted to the Virginia Department of Environmental Quality, Office of Remediation Programs (Department) by BAE Systems on behalf of the Radford Army Ammunitions Plant (RFAAP).

The Department accepts the report as complete.

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,

A handwritten signature in cursive script, appearing to read "Kurt W. Kochan".

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

cc: RFAAP Correspondence File
Brett Fisher, Jim Cutler, Ashby Scott, VDEQ-CO
Beth Lohman, VDEQ-BRRO
Cassie McGoldrick, EPA Region 3
William Hendon, Jody Hawks, BAE

From: [Mckenna, James J CIV \(US\)](#)
To: [Cutler, Jim](#); [Kochan, Kurt \(DEQ\)](#); [beth lohman \(ealohman@deq.virginia.gov\)](#)
Cc: [Gross, Kimberly U CIV USARMY CENAB \(US\)](#); [Bonnie Morris](#); [Hawks, Jody \(US\)](#); [Patton, Mark \(US\)](#); [Sengphet J. Liu](#); [MaryAnn Bogucki - Radford \(maryann.bogucki@baesystems.com\)](#); [Davie, Robert N III CIV USARMY JML LCMC \(US\)](#); [Masson, Alicia M LTC USARMY JMC \(US\)](#); [Pizarro, Luis@epamail.epa.gov](#); [Haines-Eklund, Laurie B CIV USARMY IMCOM AEC \(US\)](#); [Hendon, Bill \(US\)](#)
Subject: RE: SWMU 49 Final Report Year 1 MNA
Date: Monday, June 05, 2017 6:14:34 AM
Attachments: [17 0900 078 Final SWMU 49 MNA Year 1 Report cert letter.pdf](#)

Kurt Kochan, Jim Cutler, Beth Lohman, All,

Attached is the certification for the report that was submitted on May 25, 2017.

Thank you for your support of the Radford AAP Installation Restoration Program,
Jim McKenna

Confidentiality Note: This e-mail is Official Correspondence and is For Official Use Only, it is intended only for the person or entity to which it is addressed, and may contain information that is privileged, confidential, sensitive, or otherwise protected from disclosure. If you receive this email in error please notify the sender immediately.

-----Original Message-----

From: Mckenna, James J CIV (US)
Sent: Thursday, May 25, 2017 1:55 PM
To: Cutler, Jim <James.Cutler@deq.virginia.gov>; Kochan, Kurt (DEQ) <Kurt.Kochan@deq.virginia.gov>; beth lohman (ealohman@deq.virginia.gov) <ealohman@deq.virginia.gov>
Cc: 'Gross, Kimberly U CIV USARMY CENAB (US)' <Kimberly.U.Gross@usace.army.mil>; 'Bonnie Morris' <bmorris@bsenv.com>; 'Hawks, Jody (US)' <jody.hawks@baesystems.com>; 'Patton, Mark (US)' <mark.patton@baesystems.com>; 'Sengphet J. Liu' <sliu@bsenv.com>; MaryAnn Bogucki - Radford (maryann.bogucki@baesystems.com) <maryann.bogucki@baesystems.com>; Davie, Robert N III CIV USARMY JML LCMC (US) <robert.n.davie4.civ@mail.mil>; Masson, Alicia M LTC USARMY JMC (US) <alicia.m.masson.mil@mail.mil>; Pizarro, Luis@epamail.epa.gov; Haines-Eklund, Laurie B CIV USARMY IMCOM AEC (US) (laurie.b.haines-eklund.civ@mail.mil) <laurie.b.haines-eklund.civ@mail.mil>; Hendon, Bill (US) <bill.hendon@baesystems.com>; Herschler, Nichole (US) <nichole.herschler@baesystems.com>
Subject: SWMU 49 Final Report Year 1 MNA
Importance: High

Kurt Kochan, Jim Cutler, Beth Lohman,

Note the BSe share file site link below for the subject report that has been revised and is submitted in accordance with the Correction Action Permit in response to DEQ letter/email dated April 21, 2017 (attached). Also note the contractor will ship hard copies of the subject document with a copy of this email to the POCs and tracking numbers below. Certification will follow by separate letter.

James L. Cutler, Jr. (1 Hard Copy + 1 CD) Virginia Department of Environmental Quality
629 East Main Street
Richmond, VA 23219
Fed Ex Tracking #: 779228633043

Kurt Kochan (1 Hard Copy + 1 CD)
Virginia Department of Environmental Quality
629 East Main Street
Richmond, VA 23219
Fed Ex Tracking #: 779228602147

Luis Pizarro (1 Hard Copy + 1 CD)

Associate Director, Office of Remediation US Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029 Mail Code: (3LC20) Fed Ex Tracking #: 779228669868

Jim McKenna, Army Staff, Bldg 220 (2 Hard Copies + 1 CD) Radford Army Ammunition Plant
4050 Peppers Ferry RD
State Rd 114
Radford, VA 24141
Fed Ex Tracking #: 779228524425

The document has also been uploaded to the sharefile site, and can be downloaded using the following link:

Caution-<https://bseak.sharefile.com/d-se8fe7f966ac45a1b> < Caution-<https://bseak.sharefile.com/d-se8fe7f966ac45a1b> >

Thank you for your support of the Radford AAP Installation Restoration Program.

Jim McKenna

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ORDNANCE SYSTEMS INC.

Radford Army Ammunition Plant
4050 Peppers Ferry Road, P.O. Box 1
Radford, VA 24143
Telephone (540) 639-7631

BAE SYSTEMS

May 31, 2017

Mr. Kurt Kochan
Virginia Department of Environmental Quality
Groundwater/Correction Action Program Manager
Office of Remediation Programs
PO Box 1105
Richmond, VA 23218

Mr. James L. Cutler, Jr.
Virginia Department of Environmental Quality
629 East Main Street
Richmond, VA 23219

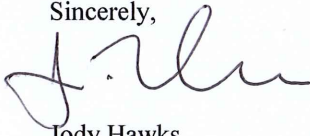
Subject: With Certification, Final SWMU 49 Monitored Natural Attenuation Sampling Year One Report,
May 2017 EPA ID# VA1210020730, Response to Department of Environmental Quality Letter
Dated April 21, 2017

Dear Mr. Kochan and Mr. Cutler:

Enclosed is the certification for the subject document that was sent to you on May 25, 2017. Also enclosed is the May 25, 2017 transmittal email.

If you have any questions, please contact me at 540-639-7701 or Mr. James McKenna, Radford AAP
Army Staff at 540 731 5782.

Sincerely,



Jody Hawks
Sr. Environmental Specialist
BAE Systems, Ordnance Systems Inc.

c: Elizabeth Lohman
Virginia Department of Environmental Quality
Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke, VA 24019

Derrick Lopez
U.S. Army Environmental Command
Cleanup and Munitions Response Division
2450 Connell Road, Bldg 2264, 1st Floor, Room 126
Fort Sam Houston, TX 78234-7664

Luis Pizarro
Associate Director, Office of Remediation
US Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029 Mail Code: (3LC20)

Kim Gross
Corps of Engineers, Baltimore District
ATTN: CENAB-EN-HM
10 South Howard Street
Baltimore, MD 21201

bc: Administrative File
J. McKenna, ACO Staff
Rob Davie-ACO Staff

Coordination:


J. McKenna

Concerning the following:

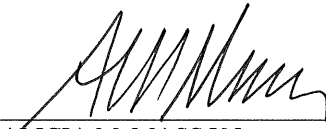
Radford Army Ammunition Plant
Final SWMU 49
Monitored Natural Attenuation Sampling
Year One Report May 2017

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

SIGNATURE:

PRINTED NAME:

TITLE:

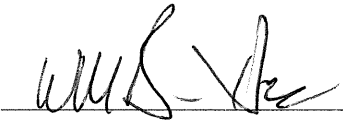


ALICIA M. MASSON
LTC, CM
Commanding

SIGNATURE:

PRINTED NAME:

TITLE:



William M. Barnett
General Manager
BAE Systems

Mckenna, James J CIV (US)

From: Mckenna, James J CIV (US)
Sent: Thursday, May 25, 2017 1:55 PM
To: Cutler,Jim; Kochan, Kurt (DEQ); beth lohman (ealohman@deq.virginia.gov)
Cc: 'Gross, Kimberly U CIV USARMY CENAB (US)'; 'Bonnie Morris'; 'Hawks, Jody (US)'; 'Patton, Mark (US)'; 'Sengphet J. Liu'; MaryAnn Bogucki - Radford (maryann.bogucki@baesystems.com); Davie, Robert N III CIV USARMY JML LCMC (US); Masson, Alicia M LTC USARMY JMC (US); Pizarro.Luis@epamail.epa.gov; Haines-Eklund, Laurie B CIV USARMY IMCOM AEC (US) (laurie.b.haines-eklund.civ@mail.mil); Hendon, Bill (US); Herschler, Nichole (US)
Subject: SWMU 49 Final Report Year 1 MNA
Attachments: 17 APR KK Email 21 Apr 2017 VA1210020730_DEQ_corr_49_2017-4-21.pdf
Importance: High

Kurt Kochan, Jim Cutler, Beth Lohman,

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James L. Cutler, Jr. (1 Hard Copy + 1 CD) Virginia Department of Environmental Quality
629 East Main Street
Richmond, VA 23219
Fed Ex Tracking #: 779228633043

Kurt Kochan (1 Hard Copy + 1 CD)
Virginia Department of Environmental Quality
629 East Main Street
Richmond, VA 23219
Fed Ex Tracking #: 779228602147

Luis Pizarro (1 Hard Copy + 1 CD)
Associate Director, Office of Remediation US Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029 Mail Code: (3LC20) Fed Ex Tracking #: 779228669868

Jim McKenna, Army Staff, Bldg 220 (2 Hard Copies + 1 CD) Radford Army Ammunition Plant
4050 Peppers Ferry RD
State Rd 114
Radford, VA 24141
Fed Ex Tracking #: 779228524425

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Caution-<https://bseak.sharefile.com/d-se8fe7f966ac45a1b> < Caution-<https://bseak.sharefile.com/d-se8fe7f966ac45a1b>
>

Thank you for your support of the Radford AAP Installation Restoration Program.

Jim McKenna

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From: [Mckenna, James J CIV \(US\)](#)
To: [Kochan, Kurt \(DEQ\)](#); [Cutler, Jim](#)
Cc: [Hawks, Jody \(US\)](#); [Fisher, Brett \(DEQ\)](#); [Cutler, Jim \(DEQ\)](#); [Scott, Ashby \(DEQ\)](#); [Mcgoldrick.catherine@epa.gov](#); [Hendon, Bill \(US\)](#); [Lohman, Elizabeth \(DEQ\)](#); [Bonnie Morris](#); [Sengphet J. Liu](#); [Sarah Skrobialowski](#); [Dioia, Leonard L Jr CIV USARMY JMC \(US\)](#); [Davie, Robert N III CIV USARMY JML LCMC \(US\)](#); [Herschler, Nichole \(US\)](#)
Subject: RE: RFAAP SWMU 49 MNA Monitoring Report response letter certified
Date: Wednesday, May 31, 2017 11:14:29 AM
Attachments: [17 MAY JM KK Email 31 18 May 21 Apr 2017 RFAAP SWMU 49 MNA Mon Rpt response certified.pdf](#)
Importance: High

Kurt, Jim, All,

Attached is the subject certified letter (referenced below) for the responses on the subject report.

Thanks
Jim

-----Original Message-----

From: Mckenna, James J CIV (US)
Sent: Thursday, May 18, 2017 3:05 PM
To: 'Kochan, Kurt (DEQ)' <Kurt.Kochan@deq.virginia.gov>; Cutler, Jim <James.Cutler@deq.virginia.gov>
Cc: Hawks, Jody (US) <jody.hawks@baesystems.com>; Fisher, Brett (DEQ) <Brett.Fisher@deq.virginia.gov>; Cutler, Jim (DEQ) <James.Cutler@deq.virginia.gov>; Scott, Ashby (DEQ) <Ashby.Scott@deq.virginia.gov>; McGoldrick.catherine@epa.gov; Hendon, Bill (US) <bill.hendon@baesystems.com>; Lohman, Elizabeth (DEQ) <Elizabeth.Lohman@deq.virginia.gov>; Bonnie Morris <bmorris@bsenv.com>; Julia Liu (sliu@bsenv.com) <sliu@bsenv.com>; Sarah Skrobialowski <sskrobialowski@bsenv.com>; Dioia, Leonard L Jr CIV USARMY JMC (US) <leonard.l.dioia.civ@mail.mil>; Davie, Robert N III CIV USARMY JML LCMC (US) <robert.n.davie4.civ@mail.mil>; Herschler, Nichole (US) <nichole.herschler@baesystems.com>
Subject: RE: [Non-DoD Source] RFAAP SWMU 49 MNA Monitoring Report Department response
Importance: High

Kurt, Jim, All,

The attached file contains our responses to the subject DEQ comments on the Draft Final SWMU 49 Monitored Natural Attenuation Sampling Year One Report, January 2017. The certification letter will follow under separate cover. Once we receive DEQ concurrence we can complete revision and resubmit the report.

Thanks,
Jim

-----Original Message-----

From: Kochan, Kurt (DEQ) [<mailto:Kurt.Kochan@deq.virginia.gov>]
Sent: Friday, April 21, 2017 11:10 AM
To: Mckenna, James J CIV (US) <james.j.mckenna16.civ@mail.mil>
Cc: Hawks, Jody (US) <jody.hawks@baesystems.com>; Fisher, Brett (DEQ) <Brett.Fisher@deq.virginia.gov>; Cutler, Jim (DEQ) <James.Cutler@deq.virginia.gov>; Scott, Ashby (DEQ) <Ashby.Scott@deq.virginia.gov>; McGoldrick.catherine@epa.gov; Hendon, Bill (US) <bill.hendon@baesystems.com>; Lohman, Elizabeth (DEQ) <Elizabeth.Lohman@deq.virginia.gov>
Subject: [Non-DoD Source] RFAAP SWMU 49 MNA Monitoring Report Department response

All active links contained in this email were disabled. Please verify the identity of the sender, and confirm the authenticity of all links contained within the message prior to copying and pasting the address to a Web browser.

Mr. McKenna-

Please accept the attached as the Departments' response to the above-referenced report.

Kurt W. Kochan

Corrective Action Project Manager

Virginia Department of Environmental Quality

Office of Remediation Programs

P.O. Box 1105

Richmond, VA 23218

(703) 583-3825

ORDNANCE SYSTEMS INC.

Radford Army Ammunition Plant
4050 Peppers Ferry Road, P.O. Box 1
Radford, VA 24143
Telephone (540) 639-7631

BAE SYSTEMS

May 19, 2017

Mr. Kurt Kochan
Virginia Department of Environmental Quality
Groundwater/Correction Action Program Manager
Office of Remediation Programs
PO Box 1105
Richmond, VA 23218

Mr. James L. Cutler, Jr.
Virginia Department of Environmental Quality
629 East Main Street
Richmond, VA 23219

Subject: With Certification, Draft Final SMWU 49 Monitored Natural Attenuation Sampling Year One Report, January 2017 EPA ID# VA1210020730, Response to Department of Environmental Quality Letter Dated April 21, 2017

Dear Mr. Kochan and Mr. Cutler:

Enclosed is the certification for the subject document that was sent to you on May 18, 2017. Also enclosed is the May 18, 2017 transmittal email.

If you have any questions, please contact me at 540-639-8766 or by email at nichole.herschler@baesystems.com.

Sincerely,



Nichole Herschler
Environmental Manager
BAE Systems, Ordnance Systems Inc.

c: Elizabeth Lohman
Virginia Department of Environmental Quality
Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke, VA 24019

Derrick Lopez
U.S. Army Environmental Command
Cleanup and Munitions Response Division
2450 Connell Road, Bldg 2264, 1st Floor, Room 126
Fort Sam Houston, TX 78234-7664

Luis Pizarro
Associate Director, Office of Remediation
US Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029 Mail Code: (3LC20)

17-0900-073

Kim Gross
Corps of Engineers, Baltimore District
ATTN: CENAB-EN-HM
10 South Howard Street
Baltimore, MD 21201

bc: Administrative File
J. McKenna, ACO Staff
Rob Davie-ACO Staff

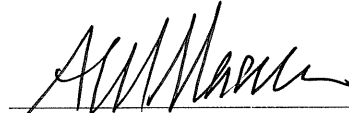
Coordination: 
J. McKenna

Concerning the following:


Radford Army Ammunition Plant
Response to April 21, 2017 Department of Environmental Quality Comments on
Draft Final SWMU 49
Monitored Natural Attenuation Sampling
Year One Report January 2017

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

SIGNATURE:
PRINTED NAME:
TITLE:


Alicia M. Masson
Lieutenant Colonel, US Army
Commanding

SIGNATURE:
PRINTED NAME:
TITLE:


William M. Barnett
General Manager
BAE Systems

Mckenna, James J CIV (US)

From: Mckenna, James J CIV (US)
Sent: Thursday, May 18, 2017 3:05 PM
To: 'Kochan, Kurt (DEQ)'; Cutler, Jim
Cc: Hawks, Jody (US); Fisher, Brett (DEQ); Cutler, Jim (DEQ); Scott, Ashby (DEQ); MCGoldrick.catherine@epa.gov; Hendon, Bill (US); Lohman, Elizabeth (DEQ); Bonnie Morris; Julia Liu (sliu@bsenv.com); Sarah Skrobialowski; Diioia, Leonard L Jr CIV USARMY JMC (US); Davie, Robert N III CIV USARMY JML LCMC (US); Herschler, Nichole (US)
Subject: RE: [Non-DoD Source] RFAAP SWMU 49 MNA Monitoring Report Department response
Attachments: Comments_RadfordAAP_SWMU49-FirstYearMNAReport_2016_KWK_VDEQ 04272016 jjm.xlsx; VA1210020730_DEQ_corr_49_2017-4-21.pdf
Importance: High

Kurt, Jim, All,

The attached file contains our responses to the subject DEQ comments on the Draft Final SWMU 49 Monitored Natural Attenuation Sampling Year One Report, January 2017. The certification letter will follow under separate cover. Once we receive DEQ concurrence we can complete revision and resubmit the report.

Thanks,
Jim

-----Original Message-----

From: Kochan, Kurt (DEQ) [mailto:Kurt.Kochan@deq.virginia.gov]
Sent: Friday, April 21, 2017 11:10 AM
To: Mckenna, James J CIV (US) <james.j.mckenna16.civ@mail.mil>
Cc: Hawks, Jody (US) <jody.hawks@baesystems.com>; Fisher, Brett (DEQ) <Brett.Fisher@deq.virginia.gov>; Cutler, Jim (DEQ) <James.Cutler@deq.virginia.gov>; Scott, Ashby (DEQ) <Ashby.Scott@deq.virginia.gov>; MCGoldrick.catherine@epa.gov; Hendon, Bill (US) <bill.hendon@baesystems.com>; Lohman, Elizabeth (DEQ) <Elizabeth.Lohman@deq.virginia.gov>
Subject: [Non-DoD Source] RFAAP SWMU 49 MNA Monitoring Report Department response

All active links contained in this email were disabled. Please verify the identity of the sender, and confirm the authenticity of all links contained within the message prior to copying and pasting the address to a Web browser.

Mr. McKenna-

Please accept the attached as the Departments' response to the above-referenced report.



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 629 East Main Street, Richmond, Virginia 23219

Mailing address: P.O. Box 1105, Richmond, Virginia 23218

www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

(804) 698-4020
1-800-592-5482

April 21, 2017

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

VIA ELECTRONIC MAIL

**Re: Draft Final SWMU 49 Monitored Natural Attenuation Sampling Year One Report
Radford Army Ammunitions Plant
Route 114, Radford, Virginia 24141
EPA ID#: VA1210020730**

Dear Mr. McKenna:

This letter acknowledges the receipt and review of the Draft Final SWMU 49 Monitored Natural Attenuation Sampling Year One Report (Report), submitted to the Virginia Department of Environmental Quality, Office of Remediation Programs (Department) by BAE Systems on behalf of the Radford Army Ammunitions Plant (RFAAP).

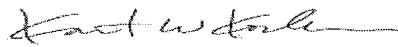
The Department has the following comments on the Report:

- Please provide justification for depicting separate Carbon Tetrachloride (CT) and Trichloroethene (TCE) plumes in Figures 5-3 through 5-8. Due to the heterogeneity of potential pathways from the top of the cliff to the river, well 13MW2 is likely an outlier and causing the computer depiction of two TCE plumes. For CT, given the site conceptual model, a single CT plume is more obvious.
- The data in Figures 5-13 and 5-14 should be plotted with a linear x-axis scale where the time intervals between sampling events is accurate. The figures as presented are also useful, but a time break and footnote should be used to acknowledge that different time intervals are depicted.
- The conclusions should repeat requirements 3 and 4 as listed in EPA's concurrence letter dated December 1, 2014.

EPA ID#: VA1210020730
Radford Army Ammunitions Plant
Radford, Virginia
April 21, 2017

Please provide written response or a revised report to the Departments' comments. 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
Brett Fisher, VDEQ-CO
Jim Cutler, VDEQ-CO
Ashby Scott, VDEQ-CO
Beth Lohman, VDEQ-BRRO
Cassie McGoldrick, EPA Region 3
William Hendon, BAE
Jody Hawks, BAE

From: [Mckenna, James J CIV \(US\)](#)
To: [Cutler, Jim](#); [Kochan, Kurt \(DEQ\)](#); beth.lohman@deq.virginia.gov
Cc: [Gross, Kimberly U CIV USARMY CENAB \(US\)](#); [Bonnie Morris](#); [Hawks, Jody \(US\)](#); [Patton, Mark \(US\)](#); [Sengphet J. Liu](#); [MaryAnn Bogucki - Radford \(maryann.bogucki@baesystems.com\)](mailto:MaryAnn.Bogucki-Radford@baesystems.com); [Davie, Robert N III CIV USARMY JML LCMC \(US\)](#); [Masson, Alicia M LTC USARMY JMC \(US\)](mailto:Masson.Alicia.M.LTC@USARMY.JMC); [Pizarro, Luis@epamail.epa.gov](mailto:Pizarro.Luis@epamail.epa.gov); [Haines-Eklund, Laurie B CIV USARMY IMCOM AEC \(US\)](#); [Hendon, Bill \(US\)](#); [Herschler, Nichole \(US\)](#)
Subject: SWMU 49 Final Report Year 1 MNA
Date: Thursday, May 25, 2017 9:55:47 AM
Attachments: [17 APR KK Email 21 Apr 2017 VA1210020730 DEQ corr 49 2017-4-21.pdf](#)
Importance: High

Kurt Kochan, Jim Cutler, Beth Lohman,

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Luis Pizarro (1 Hard Copy + 1 CD)
Associate Director, Office of Remediation US Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029 Mail Code: (3LC20)
Fed Ex Tracking #: 779228669868

Jim McKenna, Army Staff, Bldg 220 (2 Hard Copies + 1 CD)
Radford Army Ammunition Plant
4050 Peppers Ferry RD
State Rd 114
Radford, VA 24141
Fed Ex Tracking #: 779228524425

The document has also been uploaded to the sharefile site, and can be downloaded using the following link:

Caution-<https://bseak.sharefile.com/d-se8fe7f966ac45a1b> < Caution-<https://bseak.sharefile.com/d-se8fe7f966ac45a1b> >

Thank you for your support of the Radford AAP Installation Restoration Program.

Jim McKenna

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COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 629 East Main Street, Richmond, Virginia 23219

Mailing address: P.O. Box 1105, Richmond, Virginia 23218

www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

(804) 698-4020
1-800-592-5482

April 21, 2017

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

VIA ELECTRONIC MAIL

**Re: Draft Final SWMU 49 Monitored Natural Attenuation Sampling Year One Report
Radford Army Ammunitions Plant
Route 114, Radford, Virginia 24141
EPA ID#: VA1210020730**

Dear Mr. McKenna:

This letter acknowledges the receipt and review of the Draft Final SWMU 49 Monitored Natural Attenuation Sampling Year One Report (Report), submitted to the Virginia Department of Environmental Quality, Office of Remediation Programs (Department) by BAE Systems on behalf of the Radford Army Ammunitions Plant (RFAAP).

The Department has the following comments on the Report:

- Please provide justification for depicting separate Carbon Tetrachloride (CT) and Trichloroethene (TCE) plumes in Figures 5-3 through 5-8. Due to the heterogeneity of potential pathways from the top of the cliff to the river, well 13MW2 is likely an outlier and causing the computer depiction of two TCE plumes. For CT, given the site conceptual model, a single CT plume is more obvious.
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- The conclusions should repeat requirements 3 and 4 as listed in EPA's concurrence letter dated December 1, 2014.

EPA ID#: VA1210020730
Radford Army Ammunitions Plant
Radford, Virginia
April 21, 2017

Please provide written response or a revised report to the Departments' comments. 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
Brett Fisher, VDEQ-CO
Jim Cutler, VDEQ-CO
Ashby Scott, VDEQ-CO
Beth Lohman, VDEQ-BRRO
Cassie McGoldrick, EPA Region 3
William Hendon, BAE
Jody Hawks, BAE

From: [Kochan, Kurt \(DEQ\)](#)
To: [Mckenna, James J CIV \(US\)](#); [Cutler, Jim \(DEQ\)](#)
Cc: [Hawks, Jody \(US\)](#); [Fisher, Brett \(DEQ\)](#); [Cutler, Jim \(DEQ\)](#); [Scott, Ashby \(DEQ\)](#); Mcgoldrick.catherine@epa.gov; [Hendon, Bill \(US\)](#); [Lohman, Elizabeth \(DEQ\)](#); [Bonnie Morris](#); [Sengphet J. Liu](#); [Sarah Skrobialowski](#); [Dilioia, Leonard L Jr CIV USARMY JMC \(US\)](#); [Davie, Robert N III CIV USARMY JML LCMC \(US\)](#); [Herschler, Nichole \(US\)](#)
Subject: RE: [Non-DoD Source] RFAAP SWMU 49 MNA Monitoring Report Department response
Date: Friday, May 19, 2017 7:00:36 AM

Good morning Jim-

I concur with the revisions. Please proceed with the revisions and resubmittal of the report. Thanks.

Kurt

-----Original Message-----

From: Mckenna, James J CIV (US) [<mailto:james.j.mckenna16.civ@mail.mil>]
Sent: Thursday, May 18, 2017 3:05 PM
To: Kochan, Kurt (DEQ); Cutler, Jim (DEQ)
Cc: Hawks, Jody (US); Fisher, Brett (DEQ); Cutler, Jim (DEQ); Scott, Ashby (DEQ); Mcgoldrick.catherine@epa.gov; Hendon, Bill (US); Lohman, Elizabeth (DEQ); Bonnie Morris; Julia Liu (sliu@bsenv.com); Sarah Skrobialowski; Dilioia, Leonard L Jr CIV USARMY JMC (US); Davie, Robert N III CIV USARMY JML LCMC (US); Herschler, Nichole (US)
Subject: RE: [Non-DoD Source] RFAAP SWMU 49 MNA Monitoring Report Department response
Importance: High

Kurt, Jim, All,

The attached file contains our responses to the subject DEQ comments on the Draft Final SWMU 49 Monitored Natural Attenuation Sampling Year One Report, January 2017. The certification letter will follow under separate cover. Once we receive DEQ concurrence we can complete revision and resubmit the report.

Thanks,
Jim

-----Original Message-----

From: Kochan, Kurt (DEQ) [<mailto:Kurt.Kochan@deq.virginia.gov>]
Sent: Friday, April 21, 2017 11:10 AM
To: Mckenna, James J CIV (US) <james.j.mckenna16.civ@mail.mil>
Cc: Hawks, Jody (US) <jody.hawks@baesystems.com>; Fisher, Brett (DEQ) <Brett.Fisher@deq.virginia.gov>; Cutler, Jim (DEQ) <James.Cutler@deq.virginia.gov>; Scott, Ashby (DEQ) <Ashby.Scott@deq.virginia.gov>; Mcgoldrick.catherine@epa.gov; Hendon, Bill (US) <bill.hendon@baesystems.com>; Lohman, Elizabeth (DEQ) <Elizabeth.Lohman@deq.virginia.gov>
Subject: [Non-DoD Source] RFAAP SWMU 49 MNA Monitoring Report Department response

All active links contained in this email were disabled. Please verify the identity of the sender, and confirm the authenticity of all links contained within the message prior to copying and pasting the address to a Web browser.

Mr. McKenna-

Please accept the attached as the Departments' response to the above-referenced report.

Kurt W. Kochan

Corrective Action Project Manager

Virginia Department of Environmental Quality

Office of Remediation Programs

P.O. Box 1105

Richmond, VA 23218

(703) 583-3825

From: [Mckenna, James J CIV \(US\)](#)
To: [Kochan, Kurt \(DEQ\)](#); [Cutler, Jim](#)
Cc: [Hawks, Jody \(US\)](#); [Fisher, Brett \(DEQ\)](#); [Cutler, Jim \(DEQ\)](#); [Scott, Ashby \(DEQ\)](#); [Mcgoldrick.catherine@epa.gov](#); [Hendon, Bill \(US\)](#); [Lohman, Elizabeth \(DEQ\)](#); [Bonnie Morris](#); [Sengphet J. Liu](#); [Sarah Skrobialowski](#); [Dilioia, Leonard L Jr CIV USARMY JMC \(US\)](#); [Davie, Robert N III CIV USARMY JML LCMC \(US\)](#); [Herschler, Nichole \(US\)](#)
Subject: RE: [Non-DoD Source] RFAAP SWMU 49 MNA Monitoring Report Department response
Date: Thursday, May 18, 2017 11:04:50 AM
Attachments: [Comments_RadfordAAP_SWMU49-FirstYearMNAResponse_2016_KWK_VDEQ_04272016_jjm.xlsx](#)
[VA1210020730_DEQ_corr_49_2017-4-21.pdf](#)
Importance: High

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Sent: Friday, April 21, 2017 11:10 AM
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Cc: Hawks, Jody (US) <jody.hawks@baesystems.com>; Fisher, Brett (DEQ) <Brett.Fisher@deq.virginia.gov>; Cutler, Jim (DEQ) <James.Cutler@deq.virginia.gov>; Scott, Ashby (DEQ) <Ashby.Scott@deq.virginia.gov>; McGoldrick.catherine@epa.gov; Hendon, Bill (US) <bill.hendon@baesystems.com>; Lohman, Elizabeth (DEQ) <Elizabeth.Lohman@deq.virginia.gov>
Subject: [Non-DoD Source] RFAAP SWMU 49 MNA Monitoring Report Department response

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Corrective Action Project Manager

Virginia Department of Environmental Quality

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April 21, 2017

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

VIA ELECTRONIC MAIL

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EPA ID#: VA1210020730**

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EPA ID#: VA1210020730
Radford Army Ammunitions Plant
Radford, Virginia
April 21, 2017

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

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To: [Mckenna, James J CIV \(US\)](#)
Cc: [Hawks, Jody \(US\)](#); [Fisher, Brett \(DEQ\)](#); [Cutler, Jim \(DEQ\)](#); [Scott, Ashby \(DEQ\)](#); Mcgoldrick.catherine@epa.gov; [Hendon, Bill \(US\)](#); [Lohman, Elizabeth \(DEQ\)](#)
Subject: [Non-DoD Source] RFAAP SWMU 49 MNA Monitoring Report Department response
Date: Friday, April 21, 2017 7:13:29 AM
Attachments: [VA1210020730_DEQ_corr_49_2017-4-21.pdf](#)

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Kurt W. Kochan
Corrective Action Project Manager
Virginia Department of Environmental Quality
Office of Remediation Programs
P.O. Box 1105
Richmond, VA 23218
(703) 583-3825



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(804) 698-4020
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April 21, 2017

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

VIA ELECTRONIC MAIL

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Radford Army Ammunitions Plant
Route 114, Radford, Virginia 24141
EPA ID#: VA1210020730**

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EPA ID#: VA1210020730
Radford Army Ammunitions Plant
Radford, Virginia
April 21, 2017

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Sincerely,



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

cc: RFAAP Correspondence File
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Jim Cutler, VDEQ-CO
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Beth Lohman, VDEQ-BRRO
Cassie McGoldrick, EPA Region 3
William Hendon, BAE
Jody Hawks, BAE

From: [Mckenna, James J CIV \(US\)](#)
To: [Cutler, Jim](#); [Kochan, Kurt \(DEQ\)](#); [beth lohman \(ealohman@deq.virginia.gov\)](mailto:beth.lohman@deq.virginia.gov)
Cc: [Gross, Kimberly U CIV USARMY CENAB \(US\)](#); [Bonnie Morris](#); [Hawks, Jody \(US\)](#); [Patton, Mark \(US\)](#); [Sengphet J. Liu](#); [MaryAnn Bogucki - Radford \(maryann.bogucki@baesystems.com\)](mailto:maryann.bogucki@baesystems.com); [Davie, Robert N III CIV USARMY JML LCMC \(US\)](#); [Masson, Alicia M LTC USARMY JMC \(US\)](mailto:Masson.Alicia.M.LTC.USARMY.JMC@usarmy.mil); Pizarro.Luis@epamail.epa.gov; [Haines-Eklund, Laurie B CIV USARMY IMCOM AEC \(US\)](#); [Hendon, Bill \(US\)](#)
Subject: SWMU 49 LTM Report certified letter
Date: Wednesday, February 15, 2017 3:34:59 AM
Attachments: [17 0900 021 SWMU 49 MNA LTM Year 1 transmittal letter cert.pdf](#)

Jim Cutler, Kurt Kochan, Beth, All,

The subject certified letter is attached.

Thank you for your support of the Radford AAP Installation Restoration Program.

Jim McKenna

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-----Original Message-----

From: Mckenna, James J CIV (US)
Sent: Tuesday, January 24, 2017 8:27 AM
To: Cutler, Jim <James.Cutler@deq.virginia.gov>; Kochan, Kurt (DEQ) <Kurt.Kochan@deq.virginia.gov>; beth lohman (ealohman@deq.virginia.gov) <ealohman@deq.virginia.gov>
Cc: 'Gross, Kimberly U CIV USARMY CENAB (US)' <Kimberly.U.Gross@usace.army.mil>; 'Bonnie Morris' <bmmorris@bsenv.com>; 'Hawks, Jody (US)' <jody.hawks@baesystems.com>; 'Patton, Mark (US)' <mark.patton@baesystems.com>; 'Sengphet J. Liu' <slui@bsenv.com>; MaryAnn Bogucki - Radford (maryann.bogucki@baesystems.com) <maryann.bogucki@baesystems.com>; Davie, Robert N III CIV USARMY JML LCMC (US) <robert.n.davie4.civ@mail.mil>; Masson, Alicia M LTC USARMY JMC (US) <alicia.m.masson.mil@mail.mil>; Pizarro.Luis@epamail.epa.gov; Haines-Eklund, Laurie B CIV USARMY IMCOM AEC (US) (laurie.b.haines-eklund.civ@mail.mil) <laurie.b.haines-eklund.civ@mail.mil>; Hendon, Bill (US) <bill.hendon@baesystems.com>
Subject: SWMU 49 LTM Report
Importance: High

Jim Cutler, Kurt Kochan, Beth,

Note the BSe share file site link below for the subject report that is submitted in accordance with the Correction Action Permit. Also note the contractor will ship hard copies of the subject document with a copy of this email to the POCs and tracking numbers below. Certification will follow by separate letter.

Please see tracking numbers below for the SMWU 49 report:

James L. Cutler, Jr.
Virginia Department of Environmental Quality
629 East Main Street
Richmond, VA 23219
One hard copy/One CD
Tracking #:778256233035

Luis Pizarro
Associate Director, Office of Remediation US Environmental Protection Agency, Region III
1650 Arch Street

Philadelphia, PA 19103-2029 Mail Code: (3LC20) One hard copy/One CD Tracking #: 778256221535

Radford Army Ammunition Plant
4050 Peppers Ferry RD
State Rd 114
Attn: Jim McKenna, Army Staff, Bldg 220
Radford, VA 24141
Two hard copies/One CD
Tracking #: 778256237085

The document has also been uploaded to the share file site. The link is good for a year.

Caution-<https://bseak.sharefile.com/d-s75da6a14eab4cde8>

Thank you for your support of the Radford AAP Installation Restoration Program.

Jim McKenna

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ORDNANCE SYSTEMS INC.

Radford Army Ammunition Plant
4050 Peppers Ferry Road, P.O. Box 1
Radford, VA 24143
Telephone (540) 639-7631

BAE SYSTEMS

February 2, 2017

Mr. James L. Cutler, Jr.
Virginia Department of Environmental Quality
629 East Main Street
Richmond, VA 23219


**Subject: With Certification, Draft Final SWMU 49 Monitored Natural Attenuation Sampling
Year One Report, January 2017 EPA ID# VA1210020730**

Dear Mr. Cutler:

Enclosed is the certification for the subject document that was sent to you on January 24, 2017. Also enclosed is the January 24, 2017 transmittal email.

Please coordinate with and provide any questions or comments to myself at 540 639 7005 or Mr. Jim McKenna, Radford AAP Army Staff at 540 731 5782.

Sincerely,



William Hendon, PG, CPG
Safety, Health, & Environmental Manager
BAE Systems, Ordnance Systems Inc.

c: Elizabeth Lohman
Virginia Department of Environmental Quality
Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke, VA 24019

Kurt Kochan
Virginia Department of Environmental Quality
Groundwater/Correction Action Program Manager
Office of Remediation Programs
PO Box 1105
Richmond, VA 23218

Derrick Lopez
U.S. Army Environmental Command
Cleanup and Munitions Response Division
2450 Connell Road, Bldg 2264, 1st Floor, Room 126
Fort Sam Houston, TX 78234-7664

Luis Pizarro
Associate Director, Office of Remediation
US Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029 Mail Code: (3LC20)

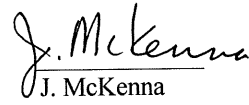
J. Hawks
17-0900-021

\

Kim Gross
Corps of Engineers, Baltimore District
ATTN: CENAB-EN-HM
10 South Howard Street
Baltimore, MD 21201

bc: Environmental File – 17-0900-021
J. McKenna, ACO Staff
Rob Davie-ACO Staff

Coordination:

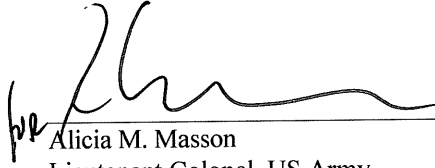

J. McKenna

Concerning the following:

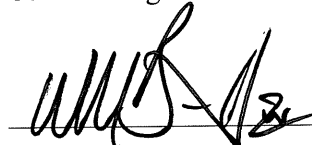
Radford Army Ammunition Plant
Draft Final SWMU 49
Monitored Natural Attenuation Sampling
Year One Report January 2017
Site Investigation at Radford Army Ammunition Plant

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

SIGNATURE:
PRINTED NAME:
TITLE:


Alicia M. Masson
Lieutenant Colonel, US Army
Commanding

SIGNATURE:
PRINTED NAME:
TITLE:


William M. Barnett
General Manager
BAE Systems

Hawks, Jody (US)

From: Mckenna, James J CIV (US) <james.j.mckenna16.civ@mail.mil>
Sent: Tuesday, January 24, 2017 8:27 AM
To: Cutler,Jim; Kochan, Kurt (DEQ); beth lohman (ealohman@deq.virginia.gov)
Cc: Gross, Kimberly U CIV USARMY CENAB (US); Bonnie Morris; Hawks, Jody (US); Patton, Mark (US); Sengphet J. Liu; Bogucki, MaryAnn (US); Davie, Robert N.; Masson, Alicia (RFAAP); Pizarro.Luis@epamail.epa.gov; Haines-Eklund, Laurie B CIV USARMY IMCOM AEC (US); Hendon, Bill (US)
Subject: SWMU 49 LTM Report
Importance: High

Jim Cutler, Kurt Kochan, Beth,

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Virginia Department of Environmental Quality
629 East Main Street
Richmond, VA 23219
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Thank you for your support of the Radford AAP Installation Restoration Program.

Jim McKenna

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To: [Cutler, Jim](#); [Kochan, Kurt \(DEQ\)](#); beth.lohman@deq.virginia.gov
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Subject: SWMU 49 LTM Report
Date: Tuesday, January 24, 2017 4:27:28 AM
Importance: High

Jim Cutler, Kurt Kochan, Beth,

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