

# **BLUE GRASS ARMY DEPOT**

Army Cleanup Program

Installation Action Plan Final

June 2024

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## STATEMENT OF PURPOSE

The Installation Action Plan (IAP) provides evidence that the Army is firmly committed to expeditious identification and cleanup of environmental contamination, and that the installation has a credible, organized program to carry out that commitment. The IAP provides an outline of the total multi-year environmental cleanup program for each site with ongoing or future planned restoration activity and includes the (1) environmental restoration requirements, (2) the rationale for the selected technical approach, and (3) foundation to develop corresponding financial needs for each cleanup site.

## INSTALLATION OVERVIEW

**Installation Name:** BLUE GRASS ARMY DEPOT

**Installation City:** RICHMOND

**Installation County:** MADISON

**Installation State:** KY

**Regulatory Participation - Federal:** United States Environmental Protection Agency (USEPA Region 4)

**Regulatory Participation - State:** Kentucky Department for Environmental Protection, Division of Waste Management

## ACRONYMS

Acronym	Definition
AOPI	Area of Potential Interest
BGAD	Blue Grass Army Depot
CAP	Corrective Action Plan
CC	Compliance-related Cleanup
COC	Contaminants of Concern
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CMI(C)	Corrective Measures Implementation (Construction)
CMI(O)	Corrective Measures Implementation (Operation)
CMS	Corrective Measures Study
CRL	Cleanup Restoration & Liabilities
CS	Confirmation Sampling
DCS	Deputy Chief of Staff
DES	Design
ENV	Environmental
FS	Feasibility Study
FYR	Five-Year Review
HTRW-CX	Hazardous, Toxic, and Radioactive Waste Center of Expertise
IAP	Installation Action Plan
ID	Identification
IM	Interim Measure
IMP(C)	Implementation (Construction)
IMP(O)	Implementation (Operations)
INV	Investigation
IR	Installation Restoration
IRA	Interim Remedial Action
ISC	Initial Site Characterization
KDEP	Kentucky Department for Environmental Protection
LTM	Long-Term Management
LUC	Land Use Control
LUCIP	Land Use Control Implementation Plan
MCL	Maximum Contaminant Levels
MR	Munitions Response
MRSPP	Munitions Response Site Prioritization Protocol
MW	Monitoring Well
NFA	No Further Action
NOD	Notice of Deficiency
PA	Preliminary Assessment
PCB	Polychlorinated Biphenyl
PFAS	Per- and polyfluoroalkyl substances

Acronym	Definition
PR	Periodic Review
PRG	Preliminary Remediation Goal
QAPP	Quality Assurance Project Plan
RAB	Restoration Advisory Board
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RDX	Cyclotrimethylenetrinitramine
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RIP	Remedy-In-Place
RRSE	Relative Risk Site Evaluation
RSL	Regional Screening Levels
SC	Site Closeout
SMWU	Solid Waste Management Unit
SI	Site Inspection
SSHPP	Site Safety and Health Plan
SVOC	Semi-Volatile Organic Compound
TAPP	Technical Assistance for Public Participation
TNT	2,4,6-Trinitrotoulene
USACE	United States Army Corps of Engineers
USAEC	United States Army Environmental Command
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound

## PHASE TRANSLATION TABLE

CERCLA Phase	RCRA Phase	RCRA UST Phase
Preliminary Assessment (PA)	RCRA Facility Assessment (RFA)	Initial Site Characterization (ISC)
Site Inspection (SI)	Confirmation Sampling (CS)	Investigation (INV)
Remedial Investigation/ Feasibility Study (RI/FS)	RCRA Facility Investigation/Corrective Measures Study (RFI/CMS)	Corrective Action Plan (CAP)
Remedial Design (RD)	Design (DES)	Design (DES)
Interim Remedial Action (IRA)	Interim Measure (IM)	Interim Remedial Action (IRA)
Remedial Action (Construction) (RA(C))	Corrective Measures Implementation (Construction) (CMI(C))	Implementation (Construction) (IMP(C))
Remedial Action (Operations) (RA(O))	Corrective Measures Implementation (Operations) (CMI(O))	Implementation (Operations) (IMP(O))
Long-Term Management (LTM)	Long-Term Management (LTM)	Long-Term Management (LTM)

## **PROGRAM SUMMARY**

**Number of Open Sites with Response Complete/Total IR Sites: 2/4**

**Number of Open Sites with Response Complete/Total MR Sites: 0/0**

**Number of Open Sites with Response Complete/Total CC Sites: 0/0**



## SITE-LEVEL INFORMATION

## 21045.1005\_BLGR-006\_MUSTARD BURN SITE/MUSTARD TRENC

**Env Site ID:** BLGR-006

**Cleanup Site:** MUSTARD BURN SITE/MUSTARD TRENC

**Alias:** SWMU 2

**Regulatory Driver:** RCRA-C

**RIP Date:** 10/15/2002

**RC Date:** 11/15/2002

**RC Reason:** All Required Cleanup(s) Completed

**SC Date:** 9/30/2054

**Program:** ENV Restoration, Army

**Subprogram:** IR

**NPL Status:** No

**Hazardous Ranking Score:** 0

**RRSE:**

**MRSPP:** N/A

Phase	Start	End
<b>RFA:</b>	1/15/1987	8/15/1990
<b>CS:</b>	3/15/1988	3/15/1992
<b>RFI/CMS:</b>	10/15/2000	9/15/2002
<b>DES:</b>	--	--
<b>IRA:</b>	--	--
<b>CMI(C):</b>	9/15/2002	10/15/2002
<b>CMI(O):</b>	10/15/2002	11/15/2002
<b>LTM:</b>	12/15/2002	9/30/2054

**Site Narrative:** The Mustard Burn Site/Mustard Trenches (Solid Waste Management Unit (SWMU) 2) comprise approximately four acres located within a fenced area inside the boundaries of the demolition grounds. From 1949 to 1955 this site received approximately 900 rounds reportedly filled with H-mustard. The rounds were broken apart with shaped charge explosives and burned with scrap wood in two unlined trenches. Upon completion of the burning the trenches were backfilled with surrounding soil. In 1989 during a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) three groundwater monitoring wells were installed and sampled. Arsenic barium and chromium were detected at concentrations below their respective maximum contaminant levels (MCL). In 1994 seven geophysical anomalies were identified in the area. Concentrations of explosives and metals were detected in groundwater. From 1998 through 2000, nine rounds of quarterly groundwater samples were collected and analyzed and concentrations of metals and explosives above MCLs were detected. In 2001 12 soil borings were advanced to one foot below ground surface. Samples were collected and analyzed for volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), pesticides, polychlorinated biphenyls (PCB), explosives, dioxins/furans and metals. PCB 1260 was detected in one sample and low levels of dioxins/furans and metals were also detected. The RFI and corrective measures study (CMS) were completed in October 2002. Groundwater monitoring and land use controls (LUC) based on infrequent and limited use were recommended. In March 2005 multi-incremental soil sampling was performed to evaluate the soil data against the US Environmental Protection Agency (USEPA) Region 9 preliminary remediation goals (PRG) as screening criteria to determine if LUCs were required at the site. The Kentucky Department for Environmental Protection (KDEP) adopted Region 9 PRGs in June 2004. In November 2005, the multi-incremental soil sampling data were provided to KDEP. The current monitoring program follows the 2004 site-wide long term monitoring plan approved by the KDEP in their letter dated Aug. 27, 2004. Three wells and two springs are monitored at this site. On Jan. 9, 2006, BGAD received a tentative no further action (NFA) for soil from KDEP. The NFA became final after its inclusion in the Blue Grass Army Depot (BGAD) permit through a permit modification. The BGAD Hazardous Waste

Operating Permit Modification 3 dated Aug. 10, 2007, granted NFA for SWMU 2 soils. In 2007 the Hazardous Toxic and Radioactive Waste Center of Expertise (HTRW-CX) completed a five-year review of the installation groundwater monitoring program and recommended that the installation implement passive sampling methods. BGAD began using passive sampling methods from the 2008 sampling events and a subsequent KDEP approval in February 2009 allowed for the removal of the metal's beryllium and chromium from the groundwater monitoring program. KDEP provided a conditional approval in a letter dated Jan. 14, 2013, requiring BGAD to use regional screening level (RSL) as the appropriate cleanup standards for the groundwater monitoring program. On June 5 June 6 and June 17, 2014, groundwater samples were collected from one monitoring well. The final groundwater monitoring report dated January 2015 stated that cyclotrimethylenetrinitramine (RDX) exceeded the USEPA RSL at this site. The final report sent to KDEP in January 2015 recommended sampling all wells in 2015. KDEP's letter dated March 18, 2015, approved the recommendation from the report to continue sampling in the spring of 2015. In April 2015 groundwater and spring samples were collected. The 2015 Annual Long-Term Monitoring Report was submitted to KDEP on Sept. 22, 2015. KDEP approved the report on Oct. 20, 2015. Sampling for energetics has continued at the site with RDX being the Contaminant of Concern (COC) noted above the RSLs. The 2016 spring sampling event was conducted on March 29, 2016, and the Annual Long-Term Monitoring Report was submitted to KDEP in September 2016. KDEP approved the report in September 2016. Monitoring Well (MW) 4004D04 was damaged and pulled from the ground presumably during heavy equipment activities on the site. The replacement MW 4004D04R was installed in December 2015. The 2017 spring sampling was conducted on April 4, 2017, and the Annual Long-Term Monitoring Report was submitted to KDEP in November 2017. KDEP approved the report in January 2018. The 2018 Spring Sampling was conducted on March 6, 2018, and the Annual Long-Term Monitoring Report was submitted to KDEP on Sept. 6, 2018. KDEP provided comments on the report on June 24, 2019, and BGAD submitted responses to their comments on Aug. 12, 2019. The 2019 spring sampling was conducted in April 2019 and the Annual Long-Term Monitoring Report was submitted to KDEP in September 2019 with a corresponding KDEP approval letter received on June 25, 2020. The 2020 spring sampling was conducted June 2020 and the 2020 Annual Long-Term Monitoring Report was submitted to KDEP on March 15, 2021, with a corresponding KDEP approval letter received on March 15, 2022. The 2021 spring sampling was conducted in June 2021 and the Annual Long-Term Monitoring Report was submitted to KDEP on March 23, 2022, where it is currently undergoing KDEP review. KDEP indicated on Sept. 5, 2023, there were no additional comments on the 2021 Annual Long-Term Monitoring Report beyond those submitted on the 2022 report. USEPA tap water RSL exceedances did not occur in the surface or groundwater samples of the Annual Long-Term Monitoring Report. Residential soil RSL or ecological screening exceedances were not observed in the sediment samples Annual Long-Term Monitoring Report. The 2022 sampling was conducted in March and April 2022. The 2022 Annual Long-Term Monitoring Report was submitted to KDEP on Dec. 27, 2022. KDEP issued a Notice of Deficiency (NOD) requesting additional information on this submittal via a NOD letter dated July 26, 2023. BGAD submitted NOD responses on Aug. 31, 2023, which is still under KDEP review. The 2023 sampling event for the LTM was conducted in March/April 2023 and the draft report was submitted to KDEP on Jan. 29, 2024 for review. A LUC Implementation Plan (LUCIP) for this site was submitted to KDEP in July 2020. Groundwater will continue to be assessed through annual monitoring starting for an indefinite period. This site will be included in the periodic reviews.

## 21045.1011\_BLGR-012\_FORMER TNT LAGOONS/HOLDING POND

**Env Site ID:** BLGR-012

**Cleanup Site:** FORMER TNT LAGOONS/HOLDING POND

**Alias:** SWMU 29

**Regulatory Driver:** RCRA-C

**RIP Date:** 6/15/2002

**RC Date:** 7/15/2002

**RC Reason:** All Required Cleanup(s) Completed

**SC Date:** 9/30/2054

**Program:** ENV Restoration, Army

**Subprogram:** IR

**NPL Status:** No

**Hazardous Ranking Score:** 0

**RRSE:**

**MRSPP:** N/A

Phase	Start	End
<b>RFA:</b>	12/15/1987	3/15/1988
<b>CS:</b>	4/15/1988	1/15/1990
<b>RFI/CMS:</b>	9/15/2001	3/15/2002
<b>DES:</b>	4/15/2002	5/15/2002
<b>IRA:</b>	- -	- -
<b>CMI(C):</b>	5/15/2002	6/15/2002
<b>CMI(O):</b>	6/15/2002	7/15/2002
<b>LTM:</b>	8/15/2002	9/30/2054

**Site Narrative:** The Former Trinitrotoluene (TNT) Lagoons are located northeast of Lake Vega. They were in operation from the early-1940s to 1975 and received wastewater discharged from the former shell washout facility. When the shell washout facility was demolished in 1975 the holding ponds were backfilled with berm material (20 inches of soil on 10 inches of clay) and revegetated. Between 1980 and 1981 a wastewater treatment plant was constructed on a portion of the former TNT lagoon site. In 1982 an environmental study was completed. Between 1989 and 1990 a Phase I RFI and CMS were completed. From 1994 to 1999 a Phase II RFI was completed. From 1998 to 2000 long-term sampling and analysis were completed. Supplemental sampling events were completed from 1999 to 2001. Several groundwater wells were installed as part of these investigations. Human health and ecological risk evaluations were performed and identified constituents of potential concern in soil groundwater sediment and surface water at levels above the KDEP acceptable risk levels. The most elevated concentrations were detected in the 1981 and 1989 investigations. The detected metals were within the range of depot-wide pristine background levels. Lead was detected above the KDEP past screening value in many soil samples, but the concentrations were within the range of ambient background levels for the area. Metals and 2,4,6-trinitrotoluene (TNT) were the only explosive detected above the screening level. Concentrations of explosives detected in groundwater have decreased over time. Metals detected in sediment and surface water were those that are naturally prevalent in the environment and are the same order of magnitude as detected in background locations at BGAD. In 2002 a second CMS was completed. The 2002 CMS recommended hot spot excavation with off-site disposal. In January 2004, an NFA letter was received from KDEP. In November 2005 BGAD provided a resubmittal to KDEP of analytical data for soils at this site. On Jan. 9, 2006, BGAD received a tentative NFA from KDEP. The NFA became final when it was included in the BGAD Hazardous Waste Operating Permit Modification 3 dated Aug. 10, 2007. In 2007 the HTRW-CX completed a five-year review of the installation groundwater monitoring program and recommended that the installation implement passive sampling methods. As a result, BGAD began using passive sampling methods from the 2008 sampling events and a subsequent KDEP

approval in February 2009 allowed for the removal of the metals beryllium and chromium from the groundwater monitoring program. KDEP provided a conditional approval in a letter dated Jan. 14, 2013, requiring BGAD to use RSLs as the appropriate cleanup standards for the groundwater monitoring program. On June 5, June 6, and June 17, 2014, three monitoring wells were sampled. The final groundwater monitoring report dated January 2015 stated that RDX concentrations in groundwater continue to exceed RSLs. The final report sent to KDEP in January 2015 recommended continued sampling. KDEP's letter dated March 18, 2015, approved the recommendation from the report to continue sampling in the spring of 2015. In April 2015 groundwater and spring samples were collected. The 2015 Annual Long-Term Monitoring Report was submitted to KDEP on Sept. 22, 2015. KDEP approved the report on Oct. 20, 2015. Sampling for energetics has continued at the site with RDX TNT and 4-amino-2,6-dinitrotoluene being the COCs noted above the RSLs. The 2016 sampling event was conducted on March 29, 2016. KDEP approved the Annual Long-Term Monitoring on Nov. 15, 2016. The 2017 sampling event was conducted in April 2017 and the Annual Long-Term Monitoring Report was submitted to KDEP in November 2017. KDEP approved the report in January 2018. The 2018 sampling event was conducted on March 6, 2018, and the Annual Long-Term Monitoring Report was submitted to KDEP on Sept. 6, 2018. KDEP provided comments to the report on June 24, 2019, and BGAD submitted responses to their comments on Aug. 12, 2019. The 2019 sampling was conducted April 2019, and the Annual Long-Term Monitoring Report was submitted to KDEP in September 2019 with a corresponding KDEP approval letter received on June 25, 2020. The 2020 sampling was conducted June 2020, and the 2020 Annual Long-Term Monitoring Report was submitted to KDEP on March 15, 2021, with a corresponding KDEP approval letter received on March 15, 2022. The 2021 sampling was conducted in June 2021 and the Annual Long-Term Monitoring Report was submitted to KDEP on March 23, 2022, where it is currently undergoing KDEP review. KDEP indicated on Sept. 5, 2023, there were no additional comments on the 2021 Annual Long-Term Monitoring Report beyond those submitted on the 2022 report. RDX concentrations in well 400907 exceeded the USEPA tap water RSL, but concentrations have declined nearly 60 percent since 2018. The 2022 sampling was conducted in March 2022. The 2022 Annual Long-Term Monitoring Report was submitted to KDEP on Dec. 27, 2022. KDEP issued a NOD requesting additional information on this submittal via a NOD letter dated July 26, 2023. BGAD submitted NOD responses on Aug. 31, 2023, which is still under KDEP review. The 2023 sampling event for the LTM was conducted in March/April 2023 and the draft report was submitted to KDEP on Jan. 29, 2024 for review. A LUCIP for this site was submitted to KDEP in July 2020. Groundwater will continue to be assessed through annual monitoring indefinitely. This site is included in periodic reviews.

## 21045.1062\_CCBLGR-061\_Washout Facility Demo/Remed

**Env Site ID:** CCBLGR-061

**Cleanup Site:** Washout Facility Demo/Remed

**Alias:** CCBLGR-061

**Regulatory Driver:** RCRA-C

**RIP Date:** 10/1/2024

**RC Date:** 10/1/2054

**RC Reason:** Not assigned

**SC Date:** 10/2/2054

**Program:** ENV Restoration, Army

**Subprogram:** IR

**NPL Status:** No

**Hazardous Ranking Score:** 0

**RRSE:** Not Evaluated

**MRSPP:** N/A

Phase	Start	End
<b>RFA:</b>	9/15/2010	11/15/2013
<b>CS:</b>	--	--
<b>RFI/CMS:</b>	12/15/2013	9/30/2022
<b>DES:</b>	--	--
<b>IRA:</b>	--	--
<b>CMI(C):</b>	10/1/2019	9/29/2023
<b>CMI(O):</b>	10/1/2023	10/1/2054
<b>LTM:</b>	--	--

**Site Narrative:** CCBLGR-061 Washout Facility Demolition/Remediation was renamed from Washout Area Monitoring Wells" in 2023 to reflect the area more accurately. The Washout Facility Demolition/Remediation is located south of Route 120 and northeast and south of Building 570 and Building 571 (Wash-Out Facility Area). In November 2001 six groundwater monitoring wells were installed upgradient and downgradient of the washout facility and washout lagoon area. The wells were installed to assess groundwater flow and water quality in the shallow aquifer beneath SWMU 024 and SWMU 025. These wells were screened across the soil-bedrock interface in the area between the washout facility and the washout lagoons. Groundwater flow generally mimics the top-of-rock and topographic surfaces in the area between washout facility and the lagoons. Downgradient from the SWMUs groundwater apparently flows eastward toward two springs. From 2002 to 2003 groundwater monitoring was performed on a quarterly basis. TNT and RDX compounds exceeded RSLs in most downgradient wells. From 2004 to 2010 the wells were sampled on an annual basis. TNT and RDX compounds exceeded RSLs in most downgradient wells. As part of the Phase 1 and 2 RFI for the Washout Lagoons (SWMU 25) groundwater samples were collected from the six groundwater monitoring wells in June and August of 2011. The results were above USEPA Region 4 RSL for TNT and RDX. The RFI field work started in December 2016. Soil boring sampling was completed in and around the Washout Facility in December 2016. Three monitoring wells were installed east and northeast of the Washout Facility in February 2017. A draft RFI Report was submitted to KDEP and approved on June 19, 2020, with a final RFI report submitted to KDEP dated July 2020. A CMS was completed and submitted to KDEP on June 29, 2022. Nov. 17, 2022, KDEP granted tentative approval of the selected remedy which includes demolition of the TNT washout facility building, removal of contaminated soil, in-situ treatment of groundwater, groundwater monitoring, and LUCs. The decision document was presented to the board and approved in March 2023. BGAD advertised the selected remedy via public notices in the area local newspapers and BGAD social media in Jan. 2023. No comments were received. Final approval of the Corrective Measures Study was issued by KDEP on May 16, 2023. The CMI(O) phase is underway. Cleanup exit strategy- Blue

Grass Army Depot anticipates groundwater monitoring LUCs and periodic reviews will be required for an indefinite period.

## 21045.1063\_BLGR-062\_PFAS

**Env Site ID:** BLGR-062

**Cleanup Site:** PFAS

**Alias:** #

**Regulatory Driver:** CERCLA

**RIP Date:** 12/1/2028

**RC Date:** 12/1/2028

**RC Reason:** Not assigned

**SC Date:** 12/2/2028

**Program:** ENV Restoration, Army

**Subprogram:** IR

**NPL Status:** No

**Hazardous Ranking Score:** 0

**RRSE:**

**MRSPP:** N/A

Phase	Start	End
PA:	5/21/2018	9/19/2019
SI:	9/20/2019	9/30/2022
RI/FS:	10/1/2021	12/1/2028
RD:	--	--
IRA:	--	--
RA(C):	--	--
RA(O):	--	--
LTM:	--	--

**Site Narrative:** Per direction from Deputy Chief of Staff (DCS) G-9 site created to account for all per- and polyfluoroalkyl substances (PFAS) costs at the installation. Currently a PA/SI is underway to identify all releases of PFAS to the environment. PA/SI has been completed and the RI/FS is currently underway. The objective of the PA was to conduct a records search to identify areas of potential interest (AOPI) where a release of PFAS to the environment may have occurred. It was primarily focused on areas where firefighting foams (e.g., aqueous film forming foam) may have been used and stored and current or historical chromium plating operations. However, the PA also focused on other potential BGAD PFAS releases. The preliminary findings from the initial site visit were discussed via a teleconference on Nov. 18, 2019. The Phase I SI following the PA site visit occurred in June 2020. The SI process involved soil and surface water sampling at specific AOPIs identified during the PA process. A scope of work was developed for the SI phase to include a site-specific Quality Assurance Project Plan in March 2020 and a Site Safety and Health Plan in January 2020. Phase II SI incorporating sonic drilling to sample groundwater at the identified AOPIs has been completed in April 2022. The Phase II Final PA/SI report was submitted to KDEP upon request in January 2024. The final Phase II SI Report indicates an RI will be required. Further actions will be determined after the RI/FS phase and will continue until the time that UU/UE is obtained.



## **SITE SUMMARY**

## SITE CLOSEOUT SUMMARY

CRL ID	Site Name	Site Closeout Date
21045.1001	BLGR-001_BUILDING 902, BURSTER REM AREA-	1/31/1992
21045.1002	BLGR-002_BLDG #1161, MUSTARD SHELL DMIL	1/31/2004
21045.1003	BLGR-003_PROJECTILE DEMIL AREA	1/31/1992
21045.1004	BLGR-005_PROJECT CHASE AREA	9/30/2003
21045.1006	BLGR-007_BLDG #1170 - PROJ ASSEMBLY AREA	1/31/1992
21045.1007	BLGR-008_BLDG #550 - BURSTER & FUZE REMO	9/30/2001
21045.1008	BLGR-009_BLDG #1180 - PROJ RENOVATION AR	3/31/1992
21045.1009	BLGR-010_FORMER SHELL WASHOUT FAC, BLDG	9/30/2003
21045.1010	BLGR-011_BLDG #570 - NEW TNT/SHELL WASHO	3/31/1992
21045.1012	BLGR-013_TNT LAGOONS/HOLDING PONDS	11/15/2013
21045.1013	BLGR-014_SURVEILLANCE (TEST) RANGE	1/31/1992
21045.1014	BLGR-015_TRACER TEST RANGE	1/31/1992
21045.1015	BLGR-016_OLD TRANSFORMER STORAGE AREA	2/28/2001
21045.1016	BLGR-017_TRAINING AREA/GUN RANGE	1/31/1992
21045.1017	BLGR-018_SEWAGE TREATMENT PLANT	1/31/1992
21045.1018	BLGR-020_NEW LANDFILL	9/30/2017
21045.1019	BLGR-021_DEACTIVATION FURNANCE BLDG T-27	6/30/2003
21045.1020	BLGR-022_WATER TREATMENT PLANT,BLDG 228	1/31/1992
21045.1021	BLGR-023_BATTERY BURIAL #1 (DEMO GROUNDS	9/30/2001
21045.1022	BLGR-024_BATTERY BURIAL #2/OLD LANDFILL/	9/30/2017
21045.1023	BLGR-027_CONVENTIONAL AMMO STOR AREAS(8)	1/31/1992
21045.1024	BLGR-028_MAGAZINE AREA-M	1/31/1992
21045.1025	BLGR-029_PINKWATER POND	9/30/2017
21045.1026	BLGR-030_OPEN DETONATION AREA	2/28/1990
21045.1027	BLGR-031_FORMER PROJECTILE PROPELLANT BU	1/31/2006
21045.1028	BLGR-032_NEW PROPELLANT BURN AREA	10/31/1991
21045.1029	BLGR-033_BOILER BLOW DOWN DISCHARGE AREA	3/31/2003
21045.1030	BLGR-034_UNDERGROUND STORAGE TANKS (50)	5/31/1995
21045.1031	BLGR-035_ABOVE GROUND STOR TANKS (46)	8/31/1990
21045.1032	BLGR-037_LAB AREAS- BLDGS # -1660 & 166	1/31/1992
21045.1033	BLGR-038_NERVE AGENT STOR IGLOOS (F-BLOC	1/31/1992
21045.1034	BLGR-039_PESTICIDE STORAGE AREA (S-13)	5/31/1992
21045.1035	BLGR-040_SEPTIC TANKS/LEACHFIELDS (6)	1/31/1992
21045.1036	BLGR-041_ELECTROLYTE STORAGE AREA(NEAR B	12/31/2003
21045.1037	BLGR-042_DRMO STORAGE AREA	12/31/2003
21045.1038	BLGR-043_BLDG #T-252, GENERAL REFUSE INC	7/31/2003
21045.1039	BLGR-044_BLDG #1178-TRANSFORMER STORAGE	7/31/2003
21045.1040	BLGR-045_BLDG #275,CONTAMINATED WASTE PR	1/31/1992

CRL ID	Site Name	Site Closeout Date
21045.1041	BLGR-047_DRY ACID POND AREA (2)	9/30/2003
21045.1042	BLGR-048_IGLOOS B-402,B-404,B-608,B-612	3/31/1992
21045.1043	BLGR-049_MAINTENANCE SHOP (S-9,S-11)	1/31/1992
21045.1044	BLGR-050_WOOD DUMP/KINDLING YARD (FIRE T	12/31/2003
21045.1045	BLGR-051_DERUST/REPAINT AREAS (BLDGS 550	3/31/1992
21045.1046	BLGR-052_RUBBLE PILE	1/31/1992
21045.1047	BLGR-053_WASTE WATER TREATMENT FACIL. (B	1/31/1992
21045.1048	BLGR-054_BUILDING #218 - RECEIVING AREA	1/31/1992
21045.1049	BLGR-055_BLDG #B-51, PAINT STORAGE AREA	1/31/1992
21045.1050	BLGR-056_TEMPORARY H STORAGE SITE	12/31/2003
21045.1051	BLGR-057_DRUM STORAGE TRENCH (NEAR RT 11	3/31/1992
21045.1052	BLGR-058_WATER TREATMENT PLANT DITCH	3/31/1992
21045.1053	BLGR-059_FORMER WASTE AMMO DETONATION AR	9/30/2017
21045.1054	BLGR-060_PAINT FILTER DISPOSAL SITE	12/31/2003
21045.1060	PBA@IR BLGR_PBA	3/15/2013
21045.1055	BLGR-001-R-01_AREA SOUTH OF THE OD UNIT	3/15/2013
21045.1056	BLGR-002-R-01_PINK WATER POND/WASTE AMMO	9/30/2008
21045.1057	BLGR-003-R-01_PROJECTILE/PROPELLANT BURN	3/15/2013
21045.1058	BLGR-004-R-01_NATIONAL GUARD CAMP AREA	9/30/2008
21045.1059	PBA@MR BLGR_PBA for sites located in Res	3/15/2013

## COMMUNITY INVOLVEMENT

<b>Community Involvement Plan (Date Last Reviewed):</b>	4/26/2024
<b>Technical Review Committee Establishment Date:</b>	N/A
<b>Restoration Advisory Board (RAB) Establishment Date:</b>	12/15/1998
<b>RAB Adjournment Date:</b>	9/15/2003
<b>RAB Adjournment Reason:</b>	There is no longer sufficient, sustained community interest
<b>Reasons for Not Establishing RAB:</b>	There is no longer sufficient, sustained community interest
<b>RAB Date of Solicitation from Community:</b>	Solicitation of community interest 2/27/2024 - 4/1/2024
<b>RAB Results of Solicitation:</b>	Three responses to above community interest solicitation were received but were unrelated to the IAP.
<b>Current Technical Assistance for Public Participation (TAPP):</b>	N/A
<b>TAPP Title:</b>	N/A
<b>Potential TAPP:</b>	N/A
<b>Administrative Record Location:</b>	Blue Grass Army Depot, 431 Battlefield Memorial Highway, Building S-14, Room 27, Richmond, KY 40475
<b>Information Repository Location:</b>	Blue Grass Army Depot, 431 Battlefield Memorial Highway, Building S-14, Room 27, Richmond, KY 40475

## FIVE-YEAR / PERIODIC REVIEW SUMMARY

Status	Review Type	Start Date	End Date	Plans Narrative	Actions Narrative	Results Narrative
Completed	PR	6/1/2023	7/17/2023	RDX has been consistently detected above the RSL in spring water samples collected from ephemeral springs SP-64 and SP-75. The ephemeral springs are located cross-gradient of the groundwater flow direction and do not appear to be hydraulically connected to SWMU-002. Further investigation is warranted to identify the source of the RDX impacts to the ephemeral springs.	N/A	N/A
Planned	PR	6/1/2028	7/17/2028	N/A	N/A	N/A