

# APPENDIX F

Research Log



Appendix F  
 Research Log  
 Per- and Polyfluoroalkyl Substances Preliminary Assessment  
 Aberdeen Proving Ground, MD

Document Location	Document Date	Document Name	Author	Description of Information
APG Administrative Record	July 2007	APG Restoration Program quarterly progress review	Directorate of Safety, Health and Environment	Information related to the location and investigation of an on-post burn site.
APG Administrative Record	October 2008	Edgewood Area - Aberdeen Proving Ground Five-Year Review	General Physics Corporation	Contained information detailing the site history of two Edgewood Area burn sites.
APG Administrative Record	December 1991	Preliminary Assessment of Risk from Toxic Materials from Building E5032	Argonne National Laboratory	Detailed site history of building used for incendiary and toxic chemical agent operations
APG Administrative Record	June 2005	Proposed Plan for 13 Select Sites in Canal Creek Study Area	General Physics Corporation	Included figures detailing the histories and locations of multiple areas within the Canal Creek area of Edgewood
APG Administrative Record	2016	FY 2016 APG Installation Action Plan	APG	Summarized site histories and provided IRP site identification numbers for multiple sites located within the Aberdeen and Edgewood Areas of APG
APG Administrative Record	March 1992	Environmental Assessment: Remedial Actions at Fire Training Area	Jonathan J. Kruff	Provided details and figures related to the history of the Former Aberdeen Fire Training Area
APG Administrative Record	June 1994	Final Report/Western Boundary Hydropunch Investigation Aberdeen Proving Ground Aberdeen, Maryland	USACE Baltimore District	Provided details and figures related to the history of the Former Aberdeen Fire Training Area, as well as additional information on nearby production wells used by Harford County
APG Administrative Record	September 2004	FY 2004 Installation Action Plan for Aberdeen Proving Ground	Directorate of Safety, Health and Environment	Summarized site histories and provided IRP site identification numbers for multiple areas located within the Aberdeen and Edgewood Areas of APG
APG Administrative Record	May 1995	Aberdeen Proving Ground Installation Restoration Program Fire Training Area Risk Assessment - Final Document.	ICF Kaiser Engineers, Inc.	Figure pulled from document showing location of Aberdeen Fire Training Area (AFTA) monitoring wells and sewer line location
APG Administrative Record	May 2001	Supplemental Ecological Risk Assessment of Soils from the Pushout Area following a Controlled Burn at J-Field, Aberdeen Proving Ground, Maryland	Argonne National Laboratory	Document provided figure showing locations of all burn pits within the vicinity of the J-Field area of Edgewood
APG Administrative Record	May 1996	Final Environmental Assessment for Proposed Removal Actions at the Aberdeen Area of Aberdeen Proving Ground, MD. : Ordnance Museum, ATC Fragmentation Pit and Transonic Range.	EA Engineering, Science, & Technology, Inc.	Document detailed the history of and waste disposal procedures for a photoprocessing facility located in the downrange area of the Aberdeen Area
APG Administrative Record	January 1992	Final Environmental Assessment for the Proposed Corrective Action at the Bush River - 26th Street Disposal Site at Aberdeen PG., MD.	Roy F. Weston, Inc.	Document included figures and text detailing burning activities at the 26th Street Dump site in Edgewood.

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APG Administrative Record	December 1994	Toxicity and Initial Hazard Assessment of The Surgical Aquifer Canal Creek Study Area, Beach Point Peninsula, Edgewood Area, Aberdeen PG., MD.	University of Maryland, College Park Agricultural Experiment Station	Provided details for the Beach Point Area Test Site
APG Administrative Record	September 1995	Canal Creek, Final Contamination Source Review for Building E3180, Edgewood Area, Aberdeen PG., MD.	Argonne National Laboratory	Detailed the history of a pyrotechnic shop converted to a metal fabricating facility
APG Administrative Record	November 1989	RCRA Facility Assessment Report, Edgewood Area, Aberdeen PG., MD.	USAEHA	Provided details on fire training exercises and suppression tests at the G-Street Salvage Yard and Beach Point Area within the Edgewood Area of Aberdeen
APG Administrative Record	February 1999	Final Environmental Assessment Prescribed Burns at Aberdeen and Edgewood Area Test Range for Air Monitoring of Range Fire Emissions, Aberdeen PG., MD.	General Physics Corp.	Document described APG procedures for controlled burns, indicating that water or fire retardant foam may have been used to create firebreaks prior to igniting materials placed inside of burn pits.
APG Administrative Record	October 1999	Environmental Assessment for Ballistics Testing of Tent and Foam for use in Removal Actions at Aberdeen PG., MD.	Directorate of Safety, Health & Environment	Provided details of a foam suppression testing at ARL ranges 12 or 15
APG Administrative Record	January 1977	Department of the Army License for National Guard Purposes DACA-31-3-7T-42	Department of the Army	Included list of buildings and properties leased to ARNG at Weide Airfield
APG Administrative Record	October 2003	Other Edgewood Areas, Swaderick-Watson Creek Investigation Area Field Activities Report for Strategic Plan DPT Groundwater and Soil Sampling, Aberdeen PG., MD.	General Physics Corp.	Detailed site histories for burn areas within M-Field
<a href="https://www.firehouse.com/photo-story/article/10551107/forest-hill-md-aircraft-crash">https://www.firehouse.com/photo-story/article/10551107/forest-hill-md-aircraft-crash</a>	August 2003	On August 24, 2003, at 11:18 AM, the Bel Air Volunteer Fire Company was dispatched for a report of an aircraft down near 10 North Forest Drive in Forest Hill.	Author Unknown. News report from Firehouse.com	Article provided information detailing fire response in which Aberdeen Fire Department responded to an off-post fire incident with foam
<a href="http://www.marylandbids.com/bid-opportunities/2017/11/11/8193517-fire-suppression-inspection-and-maintenance.html">http://www.marylandbids.com/bid-opportunities/2017/11/11/8193517-fire-suppression-inspection-and-maintenance.html</a>	November 2017	Fire Suppression Inspection and Maintenance	APG Posted IPMR&M Bid	Bid from APG detailing need for Inspection, Preventative Maintenance, Repair and Modification (IPMR&M) of existing Outdoor Fire Suppression Systems (OFSS).
Document Provided During Site Visit	2017	APGWWTP Bio Solids-Compost Volumes	APG	Details on Aberdeen Area WWTP Sludge compost volumes

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Document Provided During Site Visit	December 2015	Discharge Permit for APG Aberdeen Area Wastewater Treatment Plant State Discharge Permit 15-PD-2532, NPDES Permit ND0021237	MDE	NPDES Discharge permit for the Aberdeen Area WWTP
Document Provided During Site Visit	2016	AFFF Disposal Records	APG	FY 2016 AFFF disposal records and totals for APG
APG Administrative Record	2015	Emerging Contaminants Study: Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) at Western Boundary Study Area, Operable Unit 1	APG	Relevant sample data and report for 2012-2013 PFOS/PFOA sampling events within the Western Boundary area of APG
APG Administrative Record	2017	Groundwater Consultation Source Water Protection Areas Aberdeen Proving Ground, Maryland	USAPHC	Source water protection assessment including PFOS and PFOA sampling results for wells within the Aberdeen Cantonment and Western Boundary Areas
APG Administrative Record	2016-2018	PFAS Sample Results APG Army Owned Water Systems	APG	Consolidated data sheet of PFOS/PFOA sampling results for APG supply well systems
APG Administrative Record	December 1992	Aberdeen Area Fire Training Area Hydrologic Assessment Aberdeen Proving Ground	Department of the Army	Provided details and figures for the hydrology of the Aberdeen Fire Training Area
APG Administrative Record	1993	Hydrogeology, Water-Supply Potential, and Water Quality of the Coastal Plain Aquifers of Harford County, Maryland	David D. Drummond and Joel D. Blomquist	Detailed the general hydrogeology of Aberdeen Proving Ground and provided cross-sections, aquifer elevations and thicknesses for the underlying geology of the area.
APG Administrative Record	September 1997	Conceptual Hydrogeologic Model of Aberdeen Proving Ground-Aberdeen Area	USACE Waterways Experiment Station	Detailed the hydrology of Aberdeen Proving Ground and provided details and locations for multiple monitoring well within the vicinity of the Aberdeen Cantonment and Western Boundary Areas
APG Administrative Record	May 1998	Final Groundwater Flow Model Report for the Aberdeen Area of Aberdeen Proving Ground, Maryland	Woodward-Clyde	Detailed the hydrogeologic units underlying Aberdeen Proving Ground, as well as provided screening details for the City of Aberdeen and Harford County water supply wells
APG Administrative Record	July 2018	Final Remedial Investigation Report East Canal Creek Study Area Aberdeen Proving Ground, Maryland	Environmental Chemical Corporation	Detailed groundwater flow patterns, regional hydrogeology and provided monitoring well details for multiple areas in the eastern portion of the Canal Creek area of Edgewood
APG Administrative Record	December 2018	Final Remedial Investigation Report West Canal Creek Study Area Aberdeen Proving Ground, Maryland	Environmental Chemical Corporation	Detailed groundwater flow patterns, regional hydrogeology and provided monitoring well details for multiple areas in the eastern portion of the Canal Creek area of Edgewood

**Acronyms:**

APG - Aberdeen Proving Ground

APGWWTP - Aberdeen Proving Ground Wastewater Treatment Plant

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- ARL - Army Research Lab
- ARNG - Army Reserve National Guard
- ATC - Army Test Center
- DPT - Direct Push Technologies
- FY - Financial Year
- IAP - Installation Action Plan
- IPMR&M - Inspection, Preventative Maintenance, Repair and Modification
- IRP - Installation Restoration Program
- MDE - Maryland Department of the Environment
- NPDES - National Pollutant Discharge Elimination System
- OFSS - Outdoor Fire Suppression Systems
- PFAS - Per- and polyfluoroalkyl substances
- PFOA - Perfluorooctanoic Acid
- PFOS - Perfluorooctanesulfonic Acid
- RCRA - Resource Conservation and Recovery Act
- USACE - US Army Corps of Engineers
- USAEHA - US Army Environmental Hygiene Agency
- USAPHC - US Army Public Health Command
- WWTP - Wastewater Treatment Plant