



pennsylvania

**DEPARTMENT OF ENVIRONMENTAL
PROTECTION**

**HAZARDOUS SITES CLEANUP FUND
ANNUAL REPORT
August 2017**

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1.0 Introduction

The Hazardous Sites Cleanup Fund (HSCF), a special fund established under the Hazardous Sites Cleanup Act (HSCA) (35 P.S. §6020.101 et seq.), provides the funding for the Department of Environmental Protection (DEP) to carry out a number of activities to address releases and threatened releases of hazardous substances to the environment. These activities include:

- Investigation, cleanup and monitoring at contaminated sites
- Participation in the federal Superfund Program
- Participation in the federal Hazardous Waste Program
- Implementation of Pennsylvania's Land Recycling Program

Revenue to the HSCF is generated from hazardous waste management and transportation fees assessed under Section 903 of HSCA (35 P.S. §6020.903); recovery of DEP-incurred expenditures from responsible parties (cost recovery); penalties; interest generated from the balance in the HSCF; the Capital Stock and Franchise Tax (CSFT) as provided under the HSCF Funding Act, Act 77 of 2007 (35 P.S. §6021.1 et seq.); and transfers from the Marcellus Legacy Fund as provided under Act 13 of 2012.

The HSCF Funding Act provided for the transfer of \$40 million annually from the CSFT to the HSCF. The CSFT expired on Dec. 31, 2015; however, trailing revenue collections will continue through FY 2017-18. Act 13 of 2012 provides for the transfer from the Marcellus Legacy Fund to the HSCF starting in 2014. The transfer will include a portion of the Unconventional Gas Well Fee and a portion of revenue deposited into the Oil and Gas Lease Fund. For FY 16-17, the transfer was \$8.1 million. For all future fiscal years, the transfer is expected to be about \$18.1 million: \$15 million from the Oil and Gas Lease Fund and \$3.1 million from the Unconventional Well Fee.

Without an annual transfer from the CSFT, revenue to the HSCF is insufficient to fund all the work currently conducted by the Department. This work includes the administration of the Land Recycling Program (including brownfields grants), implementation of the delegated federal hazardous waste regulatory program, and the cleanup of toxic federal Superfund and Pennsylvania HSCA sites. The current balance within the fund, full transfers of Act 13 monies, and current estimates for other revenue to the HSCF should sustain the current level of spending into FY18-19.

This report is provided to the General Assembly in accordance with Section 902(c) of HSCA (35 P.S. §6020.902(c)) and Section 6 of the HSCF Funding Act. This report provides:

- HSCF revenue and expenditure information for the period of July 1, 2016 – June 30, 2017 (FY 2016-17)
- Estimated site-specific HSCF-funded investigation, cleanup and monitoring expenditures and activities for the period of July 1, 2016 – June 30, 2017 (FY 2016-17)
- Description of HSCF-funded programs
- HSCF personnel complement summary
- Summary of DEP participation in the federal Superfund Program funded by the HSCF
- Other program information as required by statute

As a supplement to the August 2016 HSCA Annual Report, final site-specific investigation, cleanup and monitoring expenditures for the period of July 1, 2015 to June 30, 2016 (FY 2015-16) are also provided. Final site-specific expenditure amounts are not available prior to the reporting deadline

contained in the HSCF Funding Act; therefore, only estimated expenditures are reported in August each year. The final expenditures are reported in the subsequent annual report.

This report incorporates the content and format recommendations provided by the Pennsylvania Department of the Auditor General in its special performance audit report dated March 5, 2009.

2.0 Description of Hazardous Sites Cleanup Activities

The HSCA statute, Act 108 of 1988, provides DEP with a means of protecting human health and the environment from contamination due to the releases or threatened releases of hazardous substances (generally speaking, toxic chemicals). HSCA gives DEP the authority to investigate, assess and remediate sites where hazardous substances or contaminants have been released or may be released into the environment. DEP coordinates actions under HSCA with other Pennsylvania and federal statutes that also address hazardous substances and contaminants, including, but not limited to, the Pennsylvania Land Recycling and Environmental Remediation Standards Act, Act 2 of 1995 (The Land Recycling Act); the Pennsylvania Solid Waste Management Act, Act 97 of 1980; the federal Comprehensive Environmental Response, Compensation and Liability Act of 1980 (federal Superfund law); and the federal Resource Conservation and Recovery Act of 1976 (RCRA).

DEP has many tools to address releases of hazardous substances into the environment under various programs funded by the HSCF. Pennsylvania is actively involved in cleaning up contamination that threatens human health and the environment by conducting response actions itself (funded actions), requiring responsible parties to implement actions (enforcement actions), administering the voluntary cleanup program under the Land Recycling Act, participating in federal hazardous waste corrective action projects, participating in the federal Superfund Program, and promoting federal cleanup of current and former military facilities. DEP can use more than one tool for a particular site, switching between funded or enforcement actions, voluntary cleanups and utilizing federal resources as needed to control or clean up site contamination and foster redevelopment. Exploring opportunities to coordinate HSCA-funded actions with private and/or federally funded actions allows DEP to achieve cleanups in an efficient and cost-effective manner.

2.1 DEP-Funded Investigations, Cleanups and Monitoring

HSCA gives DEP the authority to fund investigations, cleanups and monitoring activities at abandoned industrial facilities and contaminated sites where the responsible party (RP) is financially unable or unwilling to conduct the work or where an RP is not known. In these circumstances, DEP deploys state-procured contractors to respond to the site contamination. HSCA allows DEP to recover the costs it expends from the parties responsible for the contamination.

During the last fiscal year, DEP performed investigations of groundwater and soil contamination, replaced contaminated water supplies, removed and disposed of toxic wastes, implemented groundwater treatment actions, and conducted other response actions. DEP has addressed threats posed by toxic chlorinated solvents, toxic heavy metals, flammable materials, corrosive substances and radiological materials.

Appendix A contains a list of sites where DEP is conducting and funding investigations, cleanups, and monitoring activities. The list contains descriptions of the contamination and the response actions at the sites. This list does not include all sites where DEP is conducting preliminary assessments, and it

does not include all potentially abandoned sites in Pennsylvania. Expenditures at each site are separately listed in Appendices F and G.

2.2 Cleanup Activities by Responsible Parties (RPs)

HSCA provides DEP the authority to pursue enforcement actions and enter into settlement agreements to require the parties responsible for the release or threatened release to fund and perform the response actions. Appendix B contains a list of cleanup activities by responsible parties. In cases where a responsible party is able to clean up a site, DEP can enter into an agreement and oversee the required work to ensure it meets the requirements within Pennsylvania's laws, rules and regulations. After initial contact with DEP, many parties elect to implement voluntary cleanups under the Land Recycling Act.

HSCA also provides for unique types of settlements, for instance, mixed funding settlements. This type of settlement can be used in a situation where multiple entities are responsible for the contamination and some are bankrupt or no longer in existence. In a mixed funding agreement, DEP can agree to fund a percentage of the remediation equal to the "orphan" (e.g., bankrupt) entity's share of the contamination at the site.

DEP has developed a Multi-Site Agreement (MSA) for a responsible party who has many contaminated sites within Pennsylvania. DEP is overseeing work performed under MSAs with owners of former manufactured gas plants, the federal government, and pipeline transmission companies. The MSAs provide enhanced communications, more predictable financial expenditures, and improved consensus on technical issues. The MSA process allows companies to incorporate environmental perspectives and goals more easily and efficiently into current and future business plans.

DEP and the U.S. Department of Defense (DOD) addressed federal government cleanups at 1,099 active and former military sites under a Cooperative Multi-Site Agreement (CMSA) between 1998 and 2010. Pennsylvania's CMSA is unique in the nation. This agreement provided a framework under which the federal government inventoried and responded to active and formerly used defense sites with environmental contamination. All currently owned federal facilities in Pennsylvania have either been cleaned up or are being cleaned up under a federal program (e.g. federal Superfund). Formerly Used Defense Sites (FUDS) are continuing to be addressed by the Army Corps of Engineers, as federal funds are available. A list of the FUDS sites that still need to be addressed is provided in Appendix C.

DEP and the DOD have also executed a Defense and State Memorandum of Agreement (DSMOA). The DSMOA provides for federal reimbursement of state reviews of eligible federal military cleanup actions.

2.3 Participation in the Federal Superfund Program

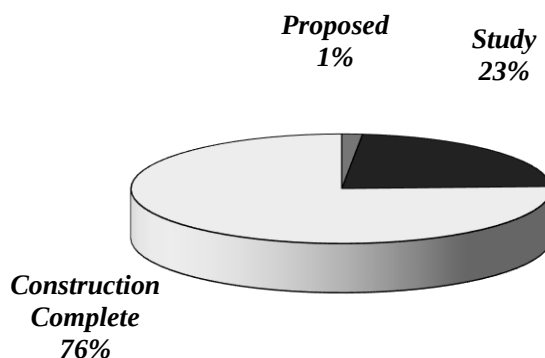
HSCA authorizes the commonwealth to fully participate in the federal Superfund Program, implemented by the U.S. Environmental Protection Agency (EPA) under the federal Superfund law. The federal Superfund Program allows EPA to either require a responsible party to clean up the site or fund the cleanup itself. If EPA funds the cleanup, federal law requires states to pay 10 percent of the remedial cost and to operate and maintain the remedy on a permanent basis or until the cleanup standard is achieved. If a responsible party addresses the site, DEP is provided the opportunity to

review and comment on investigations and cleanup plans and to recover its administrative costs. Further information on the federal Superfund Program is available at www.epa.gov.

As of July 1, 2017, Pennsylvania has 95 sites on EPA's National Priorities List (NPL), a list of sites that EPA compiles for remedial response. EPA is currently proposing to list two additional sites. Among all states in the country, Pennsylvania has the third-largest number of NPL sites, behind New Jersey with 114 sites and California with 98. Due to Pennsylvania's active participation in the Superfund Program, EPA, in cooperation with the state, has remediated and removed 30 sites from the NPL.

EPA measures the cleanup progress at federal Superfund sites on the NPL by tracking the completion of site studies (to determine the extent of contamination and options) and the completion of construction of the remedial action (e.g. installation of a groundwater treatment system). Figure 1 shows the remedial progress of Pennsylvania sites.

Figure 1 - Remedial Action Status of 97 PA Sites Proposed and Listed on the Federal NPL



Cleanups have reached the construction complete milestone at 76 percent of the sites.

Appendix D contains a list of Pennsylvania's NPL sites and the status of their remediation activities. The appendix includes the proposed and listed sites and certain deleted sites with continuing operation and maintenance obligations.

2.4 Implementation of a Voluntary Cleanup Program and Promotion of Brownfield Redevelopment

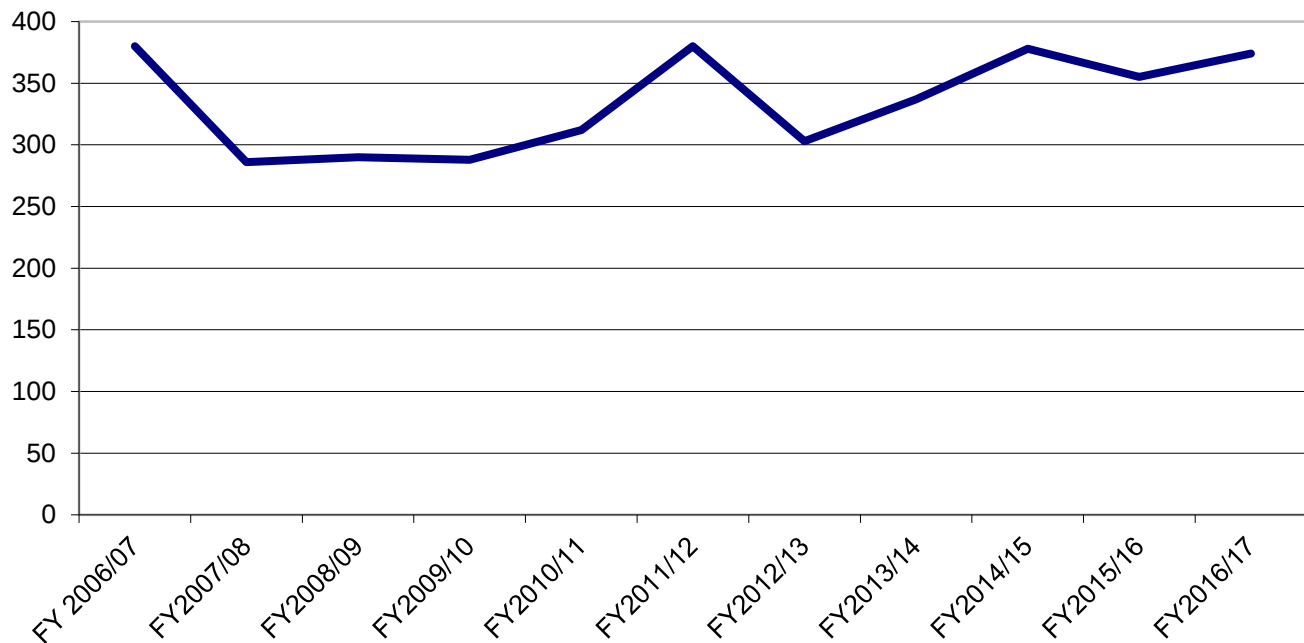
A principal goal of the Land Recycling Act is to promote the redevelopment of contaminated sites within Pennsylvania. The Land Recycling Act has three primary purposes: to provide for the remediation of contaminated sites utilizing risk-based cleanup standards, to return abandoned sites to productive use, and to preserve farmland and greenspace. The four cornerstones of the Land Recycling Program are: 1) uniform cleanup standards based on health and environmental risks; 2) standardized review procedures; 3) relief from liability; and 4) financial assistance. The establishment of uniform cleanup standards enables a person to clearly understand the extent and cost of site cleanup. Consistent reporting requirements and standardized review procedures provide a definite time frame for remediation. Relief from liability, which extends to future owners, addresses liability concerns that can

impede site redevelopment and sale. Financial assistance, available to those who did not cause or contribute to contamination at the site, can reduce the cost of site assessment and remediation.

The HSCF provides funding for DEP personnel and operating costs required to implement the Land Recycling Act. HSCF also provides financial assistance for brownfields redevelopment through transfers authorized under the Land Recycling Act and the Industrial Sites Environmental Assessment Act, Act 4 of 1995, as amended.

DEP approved 374 final reports submitted for actions during FY 2016-17. Over the 21-year history of the Land Recycling Program, DEP has approved over 6218 actions.

Figure 2 - Final Reports Approved Under Act 2



2.5 Hazardous Waste Programs

DEP receives federal funds from EPA to manage the hazardous waste regulatory program under the federal RCRA statute. This program includes permitting, inspection and enforcement at regulated facilities. This EPA grant requires the commonwealth to pay 25 percent of the cost of personnel and operating expenses. The HSCF funds the 25 percent match.

Regulated facilities where releases of hazardous waste have occurred are subject to the RCRA corrective action program. Pennsylvania is not currently authorized to administer the RCRA corrective action program; however, DEP is participating in a work-sharing agreement under the RCRA grant to

address high-priority sites. Under the agreement, Pennsylvania has been evaluating RCRA corrective action sites to determine whether the sites meet RCRA interim goals.

EPA set goals to have RCRA-regulated facilities under the corrective action program achieve control of contamination and complete corrective actions. Pennsylvania has 355 sites subject to RCRA corrective action. Table 1 identifies the number of sites reaching each goal established by EPA. Further details on the individual sites are available from the EPA website, www.epa.gov.

Table 1 – Status of RCRA Corrective Action Interim Goals at Pennsylvania Sites

	<i>Total Sites</i>	<i>Human Exposure Controlled</i>	<i>Groundwater Migration Controlled</i>	<i>Remedy Selection</i>	<i>Construction Complete</i>	<i>Final Cleanup Achieved</i>
<i>High-Priority Sites</i>	156	154	137	111	108	49
<i>Medium- and Low-Priority Sites</i>	199	162	155	128	128	89

In 2004, DEP and EPA signed a “One Cleanup Program” agreement, which establishes a framework for coordinating voluntary cleanups under the Land Recycling Act and other federal statutes, including RCRA. This agreement is designed to promote the cleanup and redevelopment of sites subject to RCRA corrective action by resolving both federal and state liability for cleanup at the same time.

In addition to funding the DEP hazardous waste regulatory program, HSCA provides financial assistance to municipalities who host commercial hazardous waste disposal facilities. The HSCF also provides funds for pollution prevention financial assistance and household hazardous waste collection and disposal under the Small Business and Household Pollution Prevention Program, established by Act 190 of 1996.

3.0 Statutorily Required Program and Financial Information

Section 902(c) of HSCA and Section 6 of the HSCF Funding Act require DEP to include specific program and financial information in the annual report.

3.1 HSCF Financial Statement

Financial statements are provided in Appendix E. The statements include a balance sheet and a statement of revenue, expenditures and commitments.

In FY 2016-17, HSCF revenue and receipts totaled about \$51,660,000, which includes transfers from the CSFT, transfers from the Marcellus Legacy Fund, interest, cost recovery, and hazardous waste transportation and management fees.

Expenditures and commitments totaling about \$52,471,000 occurred in the following executive authorizations during FY 2016-17:

- General Operations: DEP personnel salaries and benefits, DEP administrative operating costs, fixed assets that are incurred for HSCA state-funded response actions, oversight of responsible-party cleanups under HSCA, actions occurring under the Land Recycling Act,

federal Superfund actions, and the 25 percent RCRA grant match activities. This executive appropriation account also includes DEP laboratory costs for HSCA projects and preliminary investigations.

- Hazardous Sites Cleanup: Costs for investigation, cleanup and monitoring activities at specific sites incurred under DEP contracts and purchase orders. This also includes payments to EPA under State Superfund Contracts (representing the 10 percent match required for federal Superfund remedial actions).
- Host Municipality Grants: Financial assistance to municipalities who host commercial hazardous waste disposal facilities and grants for the technical evaluation of a proposed remedial response within their borders, as authorized under HSCA.
- Transfer to Industrial Environmental Assessment Fund: Provides funds to the Department of Community and Economic Development's Industrial Sites Reuse Program as authorized under Act 4 of 1995.
- Transfer to Industrial Sites Cleanup Fund: Provides funds to the Department of Community and Economic Development's Industrial Sites Reuse Program as authorized under Act 2 of 1995.
- Transfer to Household Hazardous Waste Account: Funds household hazardous waste collection and disposal programs under Act 190 of 1996.
- Small Business Pollution Prevention: Funds the Small Business Advantage Grant program administered by DEP under Act 190 of 1996.

3.2 Response Expenditures under Hazardous Sites Cleanup (Contracts, Grants and Settlements)

During FY 2016-17, DEP initiated four and completed one response actions. Including other response actions that continued from previous years, total project expenditures under the Hazardous Sites Cleanup appropriation for FY 2016-17 are estimated at \$22.8 million. Because DEP has not received and audited all invoices for contract work performed during FY 2016-17, it can only provide estimated expenditures at this time. The final contracted expenditures will be included as a supplement in the subsequent annual report. The expenditures for each project during FY 2016-17, including a description of the type of response action performed, are listed in Appendix F.

A mixed funding agreement under section 505(h) of HSCA has been signed at one site identified in Table 2 below. Expenditures incurred during FY 2016-17 under this agreement are provided in Appendix F and summarized below.

Table 2 - Mixed Funding Settlements

<i>County</i>	<i>Site Name</i>	<i>FY 2016-17 Expenditure</i>
Washington	American Zinc Chemical	\$279,343

In FY 2016-17, there were no contract expenditures for intervention and environmental mediation services; no contract expenditures for rehabilitation, restoration or acquisition of natural resources; and no reimbursements of expenses under section 505(f) of HSCA.

3.2.1 Water Supply Replacements

DEP funds water supply replacement activities at various sites. In many cases, DEP immediately funds temporary water supply replacements of private wells (e.g. delivery of bottled water) that are found to be contaminated and then follows up with permanent replacements (e.g. connecting home to a public water supply) after the contamination has been fully investigated and a comprehensive response plan has been developed.

DEP initiated a permanent water supply response at Waynesboro TCE in Washington Township, Franklin County, and completed the Tomstown TCE site in Quincy Township, Franklin County during FY 2016-17. DEP is continuing to install a waterline at the Intercourse TCE Site in Leacock Township, Lancaster County.

During FY 2016-17, DEP continued temporary response actions, including supplying bottled water and maintaining whole house carbon treatment filtration systems at 18 sites, listed in Table 3 below. The total contract cost in FY 2016-17 for temporary water supply maintenance at these sites is estimated to be \$103,000. This list does not include federal Superfund sites where DEP is operating and maintaining federal remedial actions. Further descriptions of the sites are included in Appendix A, and the costs incurred at the sites are provided in Appendix F.

Table 3 - Temporary Water Supply Replacement Responses

<i>ADSCO Landfill</i>	<i>High Quality Plating</i>	<i>Tamenend PCE</i>
<i>Allen Road</i>	<i>Intercourse TCE</i>	<i>Tomstown TCE</i>
<i>Clements Landfill</i>	<i>Lakeside PCE</i>	<i>Topton</i>
<i>Crown Industries</i>	<i>Nockamixon TCE</i>	<i>Vandor Manufacturing</i>
<i>Easton Road</i>	<i>Railroad TCE</i>	<i>Waynesboro TCE</i>
<i>Furlong Manufacturing</i>	<i>Ridge Run</i>	<i>Winship Road</i>

3.2.2 Emergency Response Expenditures

During FY 2016-17, no emergency response actions were funded under the HSCF.

3.2.3 Federal Superfund Expenditures

As of July 1, 2017, DEP has 14 State Superfund Contracts (SSCs) with outstanding balances at Pennsylvania Superfund sites. The outstanding balance of the 10 percent match required in these contracts is approximately \$5.90 million. DEP anticipates that EPA will propose another five SSCs in the future requiring an additional \$1.48 million in state funds. As of July 1, 2017, DEP is annually spending approximately \$2.6 million in contracting costs (this does not include the cost of DEP salaries, benefits, travel and general operating expenses – e.g. DEP supplies) at 22 Superfund sites to perform operation and maintenance responsibilities. In Appendix H, DEP identifies the state’s currently known and anticipated financial obligations at “funded” Superfund remedial action sites.

The June 28, 2010, Settlement Agreement between the Commonwealth of Pennsylvania and the U.S. Department of Justice settles the state’s liability, as one of the responsible parties under federal Superfund law, for the asbestos release at the Valley Forge National Park. DEP has paid \$12,373,492.94 from the HSCF under this agreement. At this time, no additional payment requests are anticipated.

3.3 Technical Evaluation Grants

In FY 2016-17, DEP provided no technical evaluation grants under section 510 of HSCA.

3.4 DEP Personnel

As of July 7, 2017, there were 257 positions on the HSCF complement and, of those positions, 225 are currently filled, 19 are vacant, and 13 are subject to the complement ceiling limit. These positions include professional, scientific, administrative and legal job titles within the DEP organizational areas shown in Table 4.

Table 4 – Complement of HSCF Positions

<u>Organizational Area</u>	<u>Filled</u>	<u>Vacant</u>
<i>Bureau of Waste Management</i>	25	6
<i>Bureau of Environmental Cleanup and Brownfields</i>	22	7
<i>Office of Administration & Management</i>	3	1
<i>Secretary's Office</i>	4	2
<i>Office of Chief Counsel</i>	6	0
<i>SE Region</i>	38	5
<i>NE Region</i>	22	1
<i>SC Region</i>	31	3
<i>NC Region</i>	11	4
<i>SW Region</i>	33	0
<i>NW Region</i>	30	3
	225	32

As of July 31, 2017, personnel costs, including benefits for FY 2016-17 for the HSCF-funded programs and projects, totaled \$14,851,064.64. The HSCF does not fund 100 percent of the cost for all positions on the HSCA complement. Personnel report hours worked in different programs and projects in the state's accounting systems. Since each program/project code is linked to a particular fund, the appropriate funds are charged the applicable cost. For instance, the federal hazardous waste program code distributes 25 percent of the personnel cost to the HSCF and the remaining 75 percent to federal grant monies. Final cost distributions are pending at the time this annual report was prepared; therefore, the exact personnel costs for FY 2016-17 upon final audit may be different.

3.5 Cost Recovery

HSCA allows DEP to seek and recover its investigation and response costs from responsible parties at HSCA sites. After response actions are completed, DEP pursues responsible parties, for instance, where parties are financially viable and will typically negotiate a settlement that may include a long-term payment schedule. Additionally, DEP may enter into agreements whereby a responsible party performs the work and agrees to pay DEP personnel costs for oversight, for example, MSAs.

DEP deposited \$693,713 of cost recovery payments into the HSCF during FY 2016-17. Appendix I contains a list of the payments collected by site/case name.

3.6 Violations and Civil Penalties

Appendix J contains a list of the violations DEP cited under HSCA during FY 2016-17. The list also includes civil penalties assessed during FY 2016-17 for any violations cited under HSCA. DEP collected \$2,500 in civil penalties for transportation and management fees not paid in FY 2016-17.

Appendix A

DEP Investigations, Cleanups and Monitoring Funded under HSCA

Site Name	Region	County	House	Senate	Threat	Status of Work
ADSCO	SC	Adams	Tallman	Alloway	Groundwater is contaminated with toxic VOCs from landfill leachate. Private water supply wells are impacted.	DEP is maintaining the residential water supply treatment system, the landfill cap, landfill methane control systems, and the landfill leachate collection and treatment system. DEP is conducting a hydrogeological review of the groundwater to determine the long-term effectiveness of the remedy.
Gettysburg Foundry	SC	Adams	Moul	Alloway	Soil and groundwater are contaminated with salt and metals from the operation of this defunct metal smelting facility.	DEP has completed remedial actions at the Site and will periodically monitor groundwater to determine whether contamination levels are declining naturally.
JC Cleaners	SC	Adams	Moul	Alloway	Soil and groundwater are contaminated with toxic VOCs. The contamination threatens a public water supply well.	DEP is operating the groundwater remediation (pump and treat) system. DEP determined vapor intrusion into buildings is not an issue at the Site. In August 2015, the pump and treat system failed and shut down. DEP is conducting a receptor study to determine if the system needs to be fixed and restarted.
Keystone Metals Reduction	SW	Allegheny	Dermody	Vulakovich	Soils have been contaminated with radiation from past activities dating back to 1921.	The Site Investigation is complete. A Statement of Decision was issued in March 2017. DEP will tear down existing buildings, cap the Site with clean fill and acquire environmental covenants defining property restrictions. A business located on the property will be temporarily relocated during remediation of the Site.
Mazzaro-McKees Rocks Landfill	SW	Allegheny	Kulik	Fontana	Soils and groundwater have been contaminated with toxic VOCs, metals, polychlorinated biphenyls (PCBs) and poly-aromatic hydrocarbons (PAHs.)	An Interim Response was completed in 2006 to remove exposed drums and waste. The landfill gas venting pilot test was completed in 2016 and the Summary Report was received in March 2017. DEP is evaluating remedial alternatives and preparing an Analysis of Alternatives for remediation of site-derived gasses.
McQuaid Property	SW	Allegheny	Costa	Vulakovich	Indoor air has been contaminated with toxic VOCs. Soil and groundwater may also be contaminated.	DEP completed a response action in 2014, which included installation of a remediation system underneath affected townhouses to draw out any vapor constituents prior to entering the living space. All groundwater monitoring wells and soil vapor monitoring points at the site were abandoned in June 2017. No further work is planned.

Tri-State Petroleum Recovery	SW	Allegheny	Kulik	Fontana	Soils and Groundwater are contaminated with toxic VOCs, SVOCs, PAHs, PCBs and heavy metals.	DEP is currently performing an Interim Action at the Site. Wastes located in tanks, drums and other containers have been removed for proper disposal. The remaining contaminated soil will be capped in Summer 2017.
CBS-Vanport	SW	Beaver	Christiana	Vogel	Soils and Groundwater are contaminated with TCE. The contamination threatens the Vanport Township Municipal Authority public water system.	The RP constructed and pays for the operation of air stripping towers at the Vanport Township Municipal Authority's (VTMA) water treatment plant to address groundwater. The RP stopped making payments to VTMA in 2016. However, TCE contamination still exists in the. DEP issued a SOD for further investigation in order to evaluate the potential risk present at the VTMA's drinking water wells.
Fry Glass Dump	SW	Beaver	Christiana	Vogel	Soil is contaminated with lead and arsenic from an exposed glass dump on a steep ravine above a stream.	DEP completed the Site Investigation in 2014. Due to its proximity, remediation was to be coordinated with the actions at the General Alloy Site. Due to a landslide that occurred in December 2016, it is necessary to conduct remedial activities at both Sites. DEP's contractor is working to stabilize the slope and relocate the tenant in the building threatened by the landslide.
General Alloy Casting Company	SW	Beaver	Christiana	Vogel	Exposed waste and seeps are contaminated with metals at this abandoned industrial waste disposal area in a steep ravine.	Site Investigation is complete. DEP issued a Statement of Decision in 2015 on work began in July 2016. A landslide occurred in December 2016, which altered DEP's remediation plan. It is now necessary to relocate an on-site business and raze the existing building to properly stabilize the slope. DEP is assisting the tenant in the relocation of the business. This Site will be remediated concurrently with the adjacent Fry Glass Dump Site.
Kuhn's Landfill	SW	Beaver	Marshall	Vogel	Exposed unknown industrial waste and abandoned drums are present at this former landfill.	Site Investigation is complete. DEP issued a Statement of Decision in June 2015. The gel-type waste will be removed and the remaining exposed waste will be covered. Work began in June 2017.
LTV Benzol Tank Area	SW	Beaver	Matzie	Bartolotta	Groundwater and soils have been contaminated by toxic VOCs.	Site Investigation activities began in 2015. High levels of benzene in wells and soil vapor monitoring points prompted the need to investigate the nearby residential neighborhood. DEP is currently negotiating access to the necessary residences.

Algonquin Chemical	SC	Berks	Knowles	Argall	Groundwater and soils have been contaminated by toxic VOCs.	DEP has completed response actions to address contaminated soils and groundwater. Sampling completed in Spring 2016 indicated no vapor intrusion into the existing building. An EC will be placed on the property. No further response actions are planned.
Clements Landfill	SC	Berks	Jozwiak	Argall	Soil and groundwater are contaminated with toxic VOCs. Several residential wells are impacted.	DEP has completed its response actions. Maintenance responsibility for residential treatment systems was turned over to the homeowners in February 2017. ECs will be placed on those properties. No further actions are planned.
DeMarco Landscaping	SC	Berks	Maloney	Rafferty	Groundwater is contaminated with toxic VOCs. Several residential wells are impacted.	DEP conducted a Prompt Interim Response to address residential well contamination. DEP has installed point of entry treatment systems at all affected homes. A vapor intrusion study was conducted in Spring 2016 and no problems were observed. An administrative hearing for the prompt interim response action is scheduled for Fall 2017.
Five Locks Access Area	SC	Berks	Knowles	Argall	Soil is contaminated with toxic inorganic substances. The Site is located along the Schuylkill River.	DEP removed contaminated soil and battery casings at the public access area of the river during Spring 2012. ECs were placed on two properties where battery casings were left in place. DEP conducted quarterly inspections of the Site, vegetation has successfully re-established itself and no problems have been detected. The Site is stable and no further activity is required.
Franklin Street	SC	Berks	Knowles	Argall	Soil is contaminated with toxic inorganic substances.	DEP has completed response actions at the Site, including excavation of contaminated soils. Final site restoration is complete. No further action is required.
Mt. Laurel Road Battery	SC	Berks	Jozwiak	Schwank	Soil is contaminated with lead from battery casings.	DEP completed response actions at the Site, including removal of 3,102 tons of contaminated soil. ECs are being placed on properties where contamination remains above the cleanup standard.
Noll Lane Battery Casing	SC	Berks	Maloney	Schwank	Soil is contaminated with lead from battery casings.	DEP is conducting an Interim Response at the Site. Contaminated soil excavation began in October 2016 and is expected to be completed in late Summer 2017. ECs will be placed on properties where contamination exists above the lead cleanup standard.

Northern Berks County Battery Casings	SC	Berks	Jozwiak	Schwank	Soil is contaminated with lead from battery casings at three separate properties on Site.	DEP completed the Site Investigation and three areas of contamination were found. An Interim Action will be initiated in Summer 2017. Work will include a combination of soil excavation and soil capping to eliminate threats from the contamination.
Oreville Quarry	SC	Berks	Mackenzie	Mensch	Groundwater is contaminated with toxic VOCs and soils are contaminated with toxic metals. Private water supply wells are impacted.	DEP completed response actions to limit contact with contamination at the Site. Contaminated soils were capped and treatment systems were installed on affected residential wells. ECs will be placed on the properties.
Reading Industrial Scrap	SC	Berks	Rozzi	Schwank	Soil is contaminated with toxic metals.	DEP has completed response actions at the Site, including removal of exposed hazardous wastes and excavation or capping of contaminated soils. An Environmental Covenant is being placed on the property with contamination remaining above cleanup standards.
Topton Site	SC	Berks	Mackenzie, Day	Schwank, Mensch	Groundwater is contaminated with toxic VOCs. Private water supply wells are impacted.	DEP is maintaining residential groundwater treatment systems. DEP conducted in-situ chemical oxidation at the Site to clean the groundwater. Groundwater samples were collected and lab results indicate that the source area VOCs do not appear to have been significantly reduced in concentration.
Westerly Filter Beds	SC	Blair	Ward, McGinnis	Eichelberger	The soil is contaminated with PCBs.	DEP's Remedial Alternatives Analysis showed that the cost to remediate the filter beds would be greater than \$10 million. Neither the HSCA Program nor the RP has the funding available. It has been decided that, due to the stability and relative inaccessibility of the filter beds, no further DEP action is planned. The site is being reviewed by EPA to see if they are interested in conducting the cleanup.
Churchville TCE	SE	Bucks	Petri, Farry	Tomlinson, Greenleaf	Groundwater is contaminated by toxic VOCs. Private water supply wells are impacted.	DEP completed the waterline installation and connected all affected properties to the water line in August 2015. DEP is monitoring the residential wells outside of the waterline to determine if the plume is moving. No VOCs were found in the Spring 2017 sampling. No further work is planned.

Easton Road PFC	SE	Bucks	Quinn, O'Neil	McIlhinney	Groundwater is contaminated with PFOS and PFOA.	The investigation was initiated in June 2016. DEP found 8 properties with exceedance of the HAL (70 ppt). DEP is supplying bottled water to 7 of these properties (8th elected to privately install a filtration system). DEP has collected samples from 305 properties and the results range from non-detect to 229 ppt. DEP is currently working to delineate the extent and boundaries of the contamination.
Furlong Manufacturing	SE	Bucks	Quinn, O'Neil	McIlhinney	Groundwater and soils are contaminated with toxic VOCs. Private water supply wells are impacted.	DEP completed soil remediation and is sampling and maintaining residential water treatment systems annually. DEP is developing a plan to address high levels of TCE contamination in one of the monitoring wells on Site and met with township representatives in June 2017 to discuss extending a public water line to the affected properties.
Jacksonville TCE	SE	Bucks	Petri	Tomlinson	The groundwater is contaminated by toxic VOCs. Private water supplies are impacted.	DEP installed a waterline to 107 affected residences in 2013. Investigations are ongoing to determine the source of the contamination and characterize the extent of the plume. In February 2017, DEP sent letters to the owners of the suspected source properties providing them with the opportunity to address the contamination through the PA Land Recycling and Cleanup Program (Act 2).
Lawn Avenue	SE	Bucks	Staats	McIlhinney	Groundwater is contaminated with toxic VOCs. Multiple private water supply wells are impacted, two with risk from inhalation.	DEP installed carbon treatment units on the affected private wells and placed ECs on the properties. Indoor air sampling has determined that no vapor contamination is entering the properties. DEP abandoned the monitoring wells in June 2017. No further work is planned.
Lenape Mfg.	SE	Bucks	Staats	McIlhinney	Groundwater is contaminated with toxic VOCs. Private water supply wells were impacted.	Although contaminants remain in the groundwater, public water serves the community for potable purposes. Sampling performed in June 2016 indicated an overall decreasing trend in contamination levels in all monitoring wells; as a result, the monitoring wells were abandoned in May 2017. No further work is planned.

Mill Creek TCE	SE	Bucks	Petri, O'Neill	Tomlinson, McIlhinney	Groundwater is contaminated with toxic VOCs. Private water supply wells are impacted.	DEP signed a Statement of Decision in 2012 selecting carbon treatment units as the remedy for the Site. The treatment systems are now the homeowners' responsibility to maintain. Site monitoring wells were abandoned in June 2017. No further work is planned.
Morris Run	SE	Bucks	Watson, Quinn	McIlhinney	The groundwater is contaminated with toxic VOCs. Private water supplies are impacted.	DEP installed water treatment units in residences with impacted wells, property owners are now responsible for maintaining the filters. Environmental Covenants were placed on all the properties. DEP abandoned the monitoring wells in June 2016. No further work is planned.
Nockamixon TCE	SE	Bucks	Quinn	Mensch	The groundwater is contaminated with toxic VOCs. Private water supplies are impacted.	DEP installed water treatment units at residences with impacted water supplies. DEP is continuing to investigate the groundwater and soil contamination at the Site. Indoor air sampling at a home located close to the source area has revealed a potential for exposure to vapors. DEP is evaluating potential follow up measures.
Perkasie Area TCE	SE	Bucks	Staats	McIlhinney	Groundwater in the area is contaminated by toxic VOCs from multiple sources. Vapor Intrusion is the main pathway of concern.	This Site was initially addressed by EPA. Three systems were installed to mitigate vapor intrusion into homes. DEP installed four bedrock monitoring wells in 2015 to help better define the extent of the contamination. Samples from one of the new wells located on the former manufacturing facility have revealed a source of TCE within the bedrock. DEP is working with Perkasie Borough and a prospective purchaser to address the property.
PFCs Prompt Interim Response	SE	Bucks, Montgomery	Stephens, O'Neill	Greenleaf	Groundwater is contaminated with PFOS and PFOA.	DEP initially supplied bottled water to residents with contamination in drinking water wells. Public supply wells at the Site with concentrations of PFOS and PFOA that exceeded the HAL (70 ppt) were then removed from service by the local public water suppliers and USEPA now provides bottled water to residents with private well concentrations above the HAL. No further work is planned.
Plumstead Fire	SE	Bucks	Quinn	McIlhinney	Groundwater is contaminated with toxic metals as a result of a fire. Private wells are impacted.	DEP completed replacement of impacted water supplies and soil remediation at the Site. DEP signed a Consent Order & Agreement with the RP for cost recovery. In January 2016, the RP submitted a Notice of Intent to Remediate under Act 2.

Railroad Drive TCE	SE	Bucks	O'Neill, Petrie	Tomlinson	Groundwater is contaminated with toxic VOCs.	DEP provided grant funding to the township for installation of a public waterline to affected residences. In March 2017, 49 properties were connected to the waterline. Only property restoration work remains. DEP continues to monitor TCE concentration at the Site and in the surrounding area.
Rapid Circuits	SE	Bucks	Davis	Tomlinson	The building on this Site contained various hazardous chemicals including acids and copper sulfate. Storage of chemicals was insufficient.	DEP removed liquid hazardous waste from the Site. A CO&A for recovery of the response costs was sent to the owners in February 2015. DEP's attorney is continuing to negotiate a settlement agreement with the owners of the property.
Ridge Run PFAS	SE	Bucks	Staats	McIlhinney	Groundwater is contaminated with PFOS and PFOA.	In 2016, two North Penn Water Authority wells were found to be contaminated with PFAS above the USEPA limit. Initial investigation within a one mile radius around the contaminated wells found 10 PFAS impacted wells. DEP is supplying bottled water to the affected properties. Further investigation is ongoing and a permanent remedy has not yet been selected.
Sellersville Landfill	SE	Bucks	Staats	McIlhinney	Soils and groundwater are contaminated with radium 226 and toxic VOCs.	DEP conducted an Interim Response Action in 1997 to address radium soil contamination. Trichloroethene (TCE) is now the primary contaminant of concern remaining at the Site. The RP and the Bucks County Redevelopment Authority (BCRDA) will be taking the Site through Act 2. BCRDA is currently characterizing TCE contamination at the Site, is planning to install additional monitoring wells, and excavate contaminated soils. DEP is overseeing the work.
Tamenend PCE	SE	Bucks	Watson	McIlhinney	Groundwater is contaminated with toxic VOCs. Private water wells are impacted.	DEP completed an interim response action to provide treatment systems for private wells affected at the Site and continues investigation to determine the responsible party for the contamination. Select wells in the area will be monitored in Fall 2017.

Vandor Manufacturing	SE	Bucks	Quinn, O'Neill	McIlhinney	Groundwater is contaminated with toxic VOCs. Private water supply wells are impacted.	DEP continues to monitor and maintain residential water supply treatment systems installed as part of an Interim Response Action for the Site. DEP is developing a plan for in-situ treatment to address high levels of VOCs in one of the Site monitoring wells. DEP met with Township officials in June 2017 to discuss extending a public water line to the affected properties.
Bear Creek Chemical Site	NW	Butler, Armstrong	Ellis, Oberlander, James	White	Groundwater and soils are contaminated with resorcinol and sulfonic acids. Private water wells and a public water system were impacted. Contamination has been detected in streams throughout the disposal area.	DEP completed soil remediation work at the Hemlock Drive location. DEP completed the cleanup of the Kelley Farm location with O&M to maintain the cover. DEP may continue to investigate the Group B Sites. Cost recovery and settlement options are currently being explored.
Franklin Glass	NW	Butler	Ellis	Hutchinson	Residential and recreation area soils are contaminated with arsenic from a glass manufacturing facility.	DEP completed an interim response to address contamination in the stream in September 2013. DEP continues to monitor the Site for erosion issues.
Shaler JTC	NW	Butler	James	White	Soils and groundwater are contaminated with toxic VOCs and toxic metals.	DEP previously completed soil and waste remedial actions and is now monitoring the remaining contaminated groundwater at the Site and determining the effectiveness of the remedy.
Quehanna Wild Area Waste Dump Sites	NC	Cameron, Clearfield, Elk	Causser, Sankey, Gabler	Langerholc, Scarnati	Low-level radiological wastes were disposed of in the Wild Area.	DEP installed monitoring wells, is investigating groundwater contamination and evaluating the data.
Phillipsburg Rod and Gun Club	NC	Centre	Solomon	Corman	Groundwater, surface water and soils are contaminated with toxic metals.	DEP initiated a soil remediation at the Site by clearing the Site to allow for recovery and treatment of the most contaminated soils. However, the rod & gun club must cease operation before DEP can move forward with remediation.

Quality Service Cleaners	SE	Chester	Lawrence	Dinniman	Groundwater and soils are contaminated with toxic VOCs. A private well and municipal supply well are affected.	DEP permanently replaced impacted water supplies which include a private well and municipal supply well. Through an agreement with DEP, the RP demolished the building and started soil removal work but stopped when more contamination than expected was found in 2015. DEP completed soil excavation under a Prompt Interim Response in 2016. DEP is currently conducting quarterly groundwater monitoring at the Site. VOC concentrations in groundwater appear to have declined due to DEP's soil remediation efforts. The Site will be handled under HSCA.
Karnish Industries	NC	Clinton	Hanna	Scarnati	The soil is contaminated with radiological materials from the prior use of the Site as a radium paint instrument repair facility.	DEP has initiated its Interim Action to build a new building, relocate the tenants, demolish the old building and remove the contaminated soils beneath. DEP entered into a CO&A with the property owner to obtain property and build a new apartment building in June 2016. Construction of the new building is underway with a target completion date of December 2017.
Lock Haven Laundry	NC	Clinton	Hanna	Scarnati	The soil and groundwater are contaminated with toxic VOCs.	DEP has been working with the property owner in order to re-developed the Site into a CVS Pharmacy. DEP has installed a vapor mitigation system and removed contaminated soil. A vapor intrusion evaluation is on-going. There is evidence that the plume may be migrating further, therefore DEP intends to complete additional site characterization.
Schiller Site	NW	Crawford	Roae	Brooks	The soil and groundwater are contaminated with toxic VOCs and toxic metals.	DEP previously completed soil and groundwater remedial actions and continues to monitor treatment systems installed on private wells for nearby residents. The property has been purchased and a CO&A was signed to settle the lien placed on the property by DEP. DEP continues to monitor to determine effectiveness of remedial actions.
Allen Road	SC	Cumberland	Tallman, Bloom	Regan, Eichelberger	Groundwater is contaminated with toxic VOCs. Private water supplies are impacted.	DEP completed the investigation, installed residential water treatment systems and turned the systems over to the homeowners. DEP abandoned all but one monitoring well. The last monitoring well was turned over to the property owner. Environmental Covenants will be placed on the properties.

Stoney Creek Technologies	SE	Delaware	Kirkland	Killian	Soil and Groundwater are contaminated with toxic VOCs and metals.	The Site was sold in 2012 and the new property owner started demolition of the buildings on Site without DEP notification. DEP issued an order to stop all work on Site in Spring 2014. USEPA collected samples in December 2015 to evaluate NPL listing and is not expected to propose listing this Site. No further work is planned.
Ridgeway Borough Municipal Landfill	NW	Elk	Gabler	Scarnati	The soil and groundwater are contaminated with toxic VOCs and metals.	DEP completed removal of drummed wastes and associated contaminated soils in Winter 2014. DEP is evaluating further work and cost recovery to close out the landfill.
Currie Landfill	NW	Erie	Bizzarro	Laughlin	Soils, groundwater and surface water are contaminated with toxic VOCs.	DEP completed a Remedial Action at the Site. Consolidation of wastes and cleanup of the stream was completed in October 2013. The Site was turned over to the Millcreek Youth Athletic Association for use as athletic fields. DEP is working with the Township to address the UPS property that has not been properly characterized. The Department is currently conducting annual groundwater sampling on the Site.
Filmore	NW	Erie	Bizzarro	Laughlin	Soils, groundwater and surface water are contaminated with metals.	DEP completed site cleanup. Contaminated soil was excavated, isolated, and covered in two feet of clean soil and vegetation. Additional monitoring wells will be installed and groundwater sampling will occur Summer 2017.
Lake City VOC	NW	Erie	Wentling	Laughlin	Groundwater is contaminated with toxic VOCs. Public water supply wells are potentially threatened.	DEP is conducting an investigation of the Site. Findings from the characterization activities indicate the TCE plume continues to expand vertically and horizontally to the northwest. DEP is evaluating the recommendation to conduct indoor air sampling to determine if the residents nearby are impacted.
Presque Isle Chemical	NW	Erie	Bizzarro	Brooks	The soils and groundwater are contaminated with toxic VOCs and PCBs from a defunct waste processing operation. Private water supplies were impacted.	DEP completed remedial actions for the soil and groundwater contamination. DEP is operating the groundwater remediation system. Monitoring wells are sampled annually. DEP conducted indoor air and sump water sampling for a nearby residential property in March 2016. Results of the sampling show contamination below cleanup standards.

Tomstown TCE	SC	Franklin	Schemel	Alloway	Groundwater is contaminated with toxic VOCs. Private water supply wells are impacted.	DEP issued a grant to Quincy Township to design and install a public water supply system at the Site. The distribution system and connections were completed in December 2016. DEP will monitor the groundwater plume and well abandonment is expected to be implemented in late 2017.
Waynesboro TCE	SC	Franklin	Schemel	Alloway	The groundwater and soils are contaminated with toxic VOCs. Private water supplies wells are impacted.	DEP finalized a grant agreement with Washington Township in April 2017 to extend a waterline for most affected properties. Two properties will have carbon treatment units installed.
Tunnelton Liquids	SW	Indiana	Reed	White	Leachate water contains toxic metals and radioactive radium. Leachate needs to be contained to stop it from flowing into the Conemaugh River.	The RP was no longer able to treat the leachate water. Therefore, DEP dewatered, solidified, and shipped the waste off-site to residual waste landfills. The excavated lagoon met the Bureau of Radiation Protection's cleanup goals and was backfilled with clean fill in Fall 2015. No further work is planned.
Punxsutawney Groundwater	NW	Jefferson	Dush	Scarnati	Soils and groundwater are contaminated with VOCs, toxic metals and cyanide from prior electroplating activities.	DEP installed indoor air systems at two homes in 2009 and completed the demolition of the building and remediation of contaminated soil at the Site. Results of the 2014 pilot showed that no remediation was occurring in the monitoring wells outside of the focused study area. The plume may require further horizontal delineation.
Marjol Battery	NE	Lackawanna	Haggerty	Blake	The facility is contaminated with lead and other toxic metals from prior waste disposal practices.	The facility is under federal hazardous waste corrective action. DEP provided oversight of the final action at the Site. The work to consolidate all waste and cap onsite is complete. DEP conducted the annual inspection of the cap in November 2016 and found the Site in good condition. DEP continues to monitor the Site on a regular basis.
Torch Lumber Mill	NE	Lackawanna	Kavulich	Blake	Site is contaminated with creosote and other wood preservative materials from previous operations.	DEP completed removal of contaminated soils in 2015. DEP is currently conducting site characterization activities to delineate the extent of contamination. DEP has also begun attempts for cost recovery from the RP.
Winship Road	NE	Lackawanna	Carroll	Blake	Groundwater is contaminated with toxic VOCs from illegal waste disposal.	DEP completed response actions at the Site including removal of wastes and contaminated soil and installation of residential water supply treatment systems. DEP is monitoring and maintaining the residential treatment systems.

Berkley Products Plant	SC	Lancaster	Greiner	Aument	Groundwater and soils are contaminated with toxic VOCs. The contamination has caused indoor air in nearby residences to be contaminated above health-based levels. Contaminated groundwater is discharging to a nearby stream.	DEP installed vapor mitigation systems on affected residences in 2006. Site characterization is completed. DEP is proposing to remediate soil under the facility using In-Situ Chemical Oxidation. In May 2017, a new monitoring well and seven new injection wells were installed. Well borehole geophysics and groundwater injections are planned for summer 2017.
Conestoga Pines Park	SC	Lancaster	Sturla	Martin	Groundwater and surface water are contaminated with toxic VOCs.	DEP finished final design of the VOC mitigation device to address contamination in the stream. Installation of the stream aeration system was completed in April 2014 and quarterly operations and maintenance are being conducted by DEP.
Intercourse TCE Site	SC	Lancaster	Cutler	Martin	Groundwater and soils are contaminated with toxic VOCs. Private water supply wells are impacted.	DEP will provide a public water supply for the town of Intercourse. The first contract to install the distribution piping was awarded and construction began in Winter 16/17 and is currently under budget and ahead of schedule. The second contract for the treatment plant, water tower, and service connections is complete and will go out for bid when funding is available.
Raymark Lower Mill Landfill	SC	Lancaster	Fee	Aument	Waste contains toxic metals and asbestos.	DEP completed waste removal and grading and capping of the landfill in 2005. DEP continues to monitor and maintain the landfill cap.
Kwiatkowski Landfill	NW	Lawrence	Sainato	Vogel	Soil and groundwater are contaminated with toxic VOCs and metals.	DEP completed an interim response to remove the contaminated wastes in 2014. Wastes were stabilized, excavated, and disposed offsite in approved landfills. DEP is pursuing cost recovery for the response. No further work is planned.
Remacor	NW	Lawrence	Bernstine	Vogel	The Site is contaminated with flammable materials, toxic metals and radiological materials.	EPA completed an emergency waste removal at the Site in 2005 and a smaller removal action in 2009. DEP is continuing to investigate the extent and impact of contamination at the Site. Work includes soil borings, sediment and surface water sampling, and radiological surveys.
High Quality Plating	NE	Lehigh	Simmons	Browne	Groundwater is contaminated with toxic VOCs. Private water supply wells are impacted.	DEP completed facility demolition and contaminated soil removal in 2002. In-situ groundwater treatment began in 2006 and is on-going. DEP is monitoring and maintaining the residential water supply treatment system and is monitoring the effects of the injections and recirculation on groundwater quality.

Freeland Garland TCE	NE	Luzerne	Mullery	Yudichak	Groundwater is contaminated with toxic VOCs. A public water supply well is potentially threatened.	Site Investigations determined that the Site can be closed out. DEP will place an Environmental Covenant on the Site to address future use of the Site and the groundwater. All Borough wells are sampled for VOCs and are currently below health standards.
Mid Atlantic Coast Delivery	NE	Luzerne	Mullery	Yudichak	Soils and groundwater are contaminated with metals, toxic VOCs and PCBs.	DEP sampled the groundwater and soils and found metals in the soils above cleanup levels. DEP is evaluating its remediation options at the Site. The property was purchased at a sheriff's sale in 2015. A meeting was held in March 2017 with the new property owner to discuss the site requirements.
TP Corp	NE	Luzerne	Carroll	Blake	Site contains wastes from an abandoned paint/coating facility.	DEP removed wastes from the Site and initiated further investigation. DEP is proposing deed restrictions or Environmental Covenants to address the additional contamination at the Site. DEP is working closely with the Township to address redevelopment of the Site. The Analysis of Alternatives was completed in January 2017 to address the site contamination.
Valley View Wood Products	NE	Luzerne	Toohil	Gordner	Abandoned demolition waste at the Site contains lead. Soils are contaminated with lead.	DEP is drafting an Analysis of Alternatives and Proposed Response to address the contaminated soils and wood products at the Site.
Vanderlin Cleaners	NC	Lycoming	Wheeland	Yaw	Soils and groundwater are contaminated with toxic VOCs.	DEP completed Site investigations, including a vapor intrusion study which showed no contamination entering residences. The area is served by public water. DEP abandoned all monitoring wells. No further action is planned.
C.G. Wood	NW	Mercer	Wentling	Brooks	Groundwater is contaminated with toxic VOCs.	DEP completed facility demolition and contaminated soil removal. In 2005, DEP entered into a CO&A with the current owner that places limitations on the Site. Groundwater and surface water/sediments contamination remains at the site. In 2012, DEP resumed O&M activities.
Greenville Reynolds Industrial Development	NW	Mercer	Longietti	Brooks	An industrial and commercial development is contaminated with toxic VOCs. Surface and groundwater have been impacted.	DEP completed its investigation of the Site. The PRPs are taking the Site through Act 2. DEP is pursuing cost recovery. No further work is planned.

Reeders TCE	NE	Monroe	Madden	Scavello	Groundwater is contaminated with toxic VOCs. Private water supplies were impacted.	DEP completed Site investigation. DEP permanently replaced impacted private water with public water, installed remediation systems at residences impacted by vapor intrusion, and has implemented land use controls to prevent contact with the remaining contamination. No Further action is planned.
West Main Street PCE	NE	Monroe	Madden	Scavello	Soil and groundwater are contaminated with toxic VOCs.	DEP is working with the property owner to complete the investigation and cleanup. The Site is now an Act 2 case. No further HSCA work is planned.
Yuhas Dump	NE	Monroe	Rader	Scavello	There are abandoned drums and containers with unknown contents on-site. Soils, surface water and potentially groundwater are contaminated with toxic metals and VOCs. Waste materials are encroaching on the stream.	The Phase 1 Prompt Interim as completed in 2008. The Phase 2 Interim Response is complete except for establishment of the vegetative cover. The response included relocating a portion of the stream away from the toe of the waste pile, stabilizing the waste pile by constructing a mechanically stabilized earthen wall, and grading, covering and vegetating of the waste pile material.
Alderfer Landfill	SE	Montgomery	Godshall	Greenleaf	The Site is contaminated with toxic VOCs, including radiological materials.	DEP completed an Interim Response to cap the Site, install stone-filled wire gabions along the creek, and create two vaults on-site for the relocation of radioactive thorium-232. DEP is maintaining the landfill cap and monitoring the Site groundwater to gain further understanding of the nature of the radioactive contamination. Discussions are ongoing to address recent property ownership changes and legal issues at the Site.
Botany PCE	SE	Montgomery	Murt	Greenleaf	Groundwater and soil are potentially contaminated with toxic VOCs.	DEP completed investigations at the Site. Contamination has not migrated off the dry cleaner property. DEP has asked the property owner to sign an environmental covenant restricting groundwater use, and to perform a vapor intrusion assessment after the redevelopment of the property.
Boyertown Landfill	SE	Montgomery	Toepel	Mensch	Methane from the abandoned landfill threatens to migrate off-Site and impact nearby residences.	DEP is maintaining the methane extraction system installed at the Site in October 2003. The RP Group has installed wells to address data gaps in the monitoring well network and is developing a final closure plan for the Site.

Bridge Road TCE	SE	Montgomery	Corr	Mensch	Groundwater is contaminated with toxic VOCs. Private wells are impacted.	DEP issued a grant to the township to install public water to the affected properties. All but one property is connected to the waterline. The remaining property owner installed a carbon treatment unit and the DEP recorded a deed notice on the property to notify potential buyers of the groundwater contamination. The township requires public water connection for any new development in the Site area. No further work is planned.
Chemigraphics	SE	Montgomery	Harper	Leach	Groundwater at the Site is contaminated with toxic VOCs.	Response actions have been completed for Site wastes and groundwater. In February 2016, DEP received the signed Environmental Covenant from the property owner. DEP abandoned the monitoring and injection wells in May 2017. No further work is planned.
Cook Technologies	SE	Montgomery	Toepel	Mensch	Groundwater is contaminated with toxic VOCs. Private water supply wells are impacted.	Twenty private properties still have substantial detections of PCE warranting continued carbon filter treatment. The RP is responsible for sampling those homes, performing filter maintenance as needed, and to sample the 5 monitoring wells at the Site to track PCE levels. These responsibilities are outlined in a CO&A Agreement, which was finalized in May 2017. DEP is overseeing the RP's work.
Gilbertsville PCE	SE	Montgomery	Toepel	Mensch	Groundwater and soils are contaminated with toxic VOCs. Private water supply wells are impacted.	In 2007, DEP removed 170 tons of contaminated soil from the Site. In 2008, DEP extended a waterline to replace the water supplies of impacted residential properties. Groundwater sampling has shown decreasing concentrations of contaminants in all wells over time. DEP abandoned monitoring wells in May 2017. No further work is planned.
Hoff VC	SE	Montgomery	Toepel	Mensch	Groundwater is contaminated with toxic VOCs. Private home wells are impacted.	In 2014, 27 properties were connected to a public waterline. Vapor Intrusion was assessed and found not to be an issue. In 2016, DEP initiated a Prompt Interim Response to remove the waste from a concrete pit and nearby contaminated soil. DEP continues to monitor groundwater and research remediation technologies to address both the contaminated groundwater and soils at the Site.

Landis Creek	SE	Montgomery	Corr, Quigley	Rafferty, Mensch	Groundwater is contaminated with toxic VOCs. Private water supply wells are impacted.	In 2016, DEP installed carbon filtration systems at six homes affected by contamination. Systems have since been turned over to property owners. Environmental Covenants have been placed on those properties. The RP met with DEP to discuss actions needed to complete an Act 2 investigation. Further characterization is expected to be completed in Summer 2017. It is anticipated that the RP will enter into a CO&A to complete the Act 2 process.
Limekiln PCE	SE	Montgomery	Stephens	Greenleaf	Groundwater is contaminated with toxic VOCs. Private home wells are impacted.	DEP replaced private wells with public water through a grant to the township in 2014. A Consent Order & Agreement with the RP was signed in May 2017 to take the Site through Act 2. The Agreement also included a settlement for this Site and the Midfield VOC Site.
Lower Providence DCE	SE	Montgomery	Corr	Rafferty	Groundwater is contaminated with toxic VOCs. Private water supply wells are impacted.	In 2012, DEP completed construction of a waterline to provide a permanent source of water to impacted residences. DEP abandoned the monitoring wells in June 2017. No further work is planned.
Macoby Creek	SE	Montgomery	Simmons	Mensch	Groundwater is contaminated with toxic VOCs. A private water supply well is impacted.	In 2008, DEP demolished the on-site building and removed contaminated soils. DEP also installed a carbon filtration system on the one residential property found to be contaminated. DEP is monitoring and maintaining the treatment system. An initial in-situ treatment of groundwater in 2016 was found to decrease concentrations of VOCs at the Site. DEP is planning on additional injections in Fall 2017 to further address the remaining VOC contaminated groundwater.
Midfield VOC	SE	Montgomery	Stephens	Greenleaf	Groundwater is contaminated with toxic VOCs. Private home wells are impacted.	DEP replaced private wells with public water through a grant to the Township in June 2014. A Consent Order & Agreement with the RP was signed in May 2017 to take the Site through Act 2. The Agreement also included a settlement for this Site and the Limekiln PCE Site.

Rittenhouse Road	SE	Montgomery	Corr	Rafferty	Groundwater is contaminated with toxic VOCs. Private home wells are impacted.	DEP connected several homes to public water. In 2014, EPA conducted a Vapor Intrusion study that determined high levels of VOC's remain on Site. However, the levels found were not high enough to be considered a danger to employees inside the building. The property owner intends to go through the Act 2 process. A subsequent work plan to conduct groundwater delineation and indoor air screening was approved by the Land Recycling Program in 2016. No further HSCA work is planned.
Valley Forge Asbestos Release	SE	Montgomery	Briggs	Leach	Soil is contaminated with waste asbestos from former industrial activities next to the Site. Soil is also contaminated with metals and PAHs.	The National Park Service (NPS) determined that the Commonwealth was a Responsible Party for the Site since disposal of asbestos wastes had been authorized when the Site was a State Park. The NPS is conducting the removal and DEP pays its share of the costs. In 2015, DEP was notified that all contamination was removed and received a demand letter from EPA requesting \$5.2M to address cost overruns and additional removal actions at the Site. DEP made the payment in August 2015. The National Park Service continues to conduct the removal action.
Zieglerville TCE	SE	Montgomery	Toepel	Mensch	Groundwater and soils are contaminated with toxic VOCs. The contaminated groundwater threatens a public supply well.	DEP took two interim response actions in the mid-1990s to extend the waterline to affected homes and to clean up the soil hotspot area. DEP is monitoring remaining groundwater contamination and evaluating potential in-situ remedial alternatives to clean up the groundwater.
American Fuel Harvesters	NE	Northampton	Emrick	Scavello	The Site is contaminated with lead waste disposed by a defunct demolition waste processing facility.	DEP previously completed remedial actions at the Site in 1999. DEP is maintaining the landfill cap and conducting annual groundwater sampling. DEP is considering reducing the sampling to once every 5 years instead of annually.
Herceg Landfill	NE	Northampton	Hahn	Scavello	Groundwater is contaminated with VOCs and inorganic metals. A private water supply well is impacted.	DEP is monitoring the impacted private well and maintaining the residential water treatment systems installed in 2005 and 2009. DEP is operating the leachate treatment system, conducting annual sampling and O&M activities, and evaluating the best way to address the elevated levels of ammonia.

Port Richmond Gate	SE	Philadelphia	Taylor	Sabatina	The soil at the Site is contaminated with toxic inorganic compounds.	In 2011, DEP excavated and capped contaminated soils and implemented land use restrictions via Environmental Covenants. DEP plans to issue Orders to address the remaining five properties to prevent contact on properties that refused to sign Environmental Covenants. DEP filed a cost recovery action with Commonwealth Court of PA against the developers of the Site on May 2, 2016 and a mediation hearing was held in January 2017.
Crown Industries	NE	Pike	Peifer	Baker	The groundwater and soils at this Site have been contaminated with toxic VOCs, PCBs and dioxins. Private water supplies were impacted.	DEP completed remedial actions for contaminated debris, soil, and groundwater on Site. DEP recovered \$3,465,000 of its costs from RPs. Negotiations with the quarry owner to take over O&M responsibilities began in 2015. Negotiations are on-going to discuss the status of the O&M plan and the Environmental Covenant.
Ashland Metals	NE	Schuylkill	Goodman	Argall	Soils are contaminated with lead and toxic metals from a defunct battery and metal recycling operation.	DEP previously completed remedial actions at the Site. The response included removal of lead-contaminated battery casings; decontamination and removal of five above ground storage tanks and two underground storage tanks; demolition of three contaminated buildings; and construction of a protective cover system. DEP continues to monitor the Site and maintain the landfill cap.
Coaldale MGP	NE	Schuylkill	Knowles	Argall	The soils are contaminated with coal gasification waste consisting of volatile and semi-volatile compounds.	DEP is proposing a limited removal action and an Environmental Covenant to limit the use of sub-grade soils and groundwater. Additional Site Characterization work began in June 2017.
Giordano Waste Materials	NE	Schuylkill	Goodman	Argall	The soils are contaminated with metals.	DEP installed a soil cap to prevent exposure and is monitoring and maintaining the cap. Semi-annual Site visits are conducted to inspect the cap.
Mahanoy City MGP	NE	Schuylkill	Goodman	Argall	The soils are contaminated with coal gasification waste substances.	DEP completed the site investigation. The proposed action for the Site is source removal, capping of remaining contamination, and an environmental covenant to prevent disturbance of the area. DEP is negotiating a CO&A with the RP to perform the post removal operation and maintenance. The CO&A is being drafted.

Schuylkill Haven MGP	NE	Schuylkill	Tobash	Argall	Groundwater and soils are contaminated with coal gasification waste substances. Contaminated groundwater is discharging to nearby streams and there is a threat of vapor intrusion into nearby buildings.	DEP completed the investigation and is preparing an Analysis of Alternatives to address the soil and groundwater contamination. The proposed response includes installation of an armored cap over the coal tar seep area and an Environmental Covenant to prevent disturbance of the area.
Former Erie Railyard	NE	Susquehanna	Fritz	Baker	The groundwater and soils are potentially contaminated with coal gasification waste substances.	DEP completed a Site investigation and found elevated levels of metals in the soils. DEP will combine excavation, environmental covenants, surface barriers and vegetation to address Site contamination. DEP is working with the DCNR to redevelop the Site once cleanup activities are complete. In April 2017, the Work Plan was approved and the Notice to Proceed was issued.
Laurel Lake PCE	NE	Susquehanna	Fritz	Yaw	Groundwater is contaminated with toxic VOCs. Private water supply wells are impacted.	DEP initiated an investigation in 2012. Water treatment systems were installed on two residential properties and DEP is providing bottled water to affected homes. Monitoring wells were installed in 2014 to determine plume extent and groundwater flow. DEP is conducting quarterly sampling and overall groundwater contamination is on a downward trend.
American Zinc Company Site	SW	Washington	Ortitay	Bartolotta	The surface piles and soil are contaminated with lead, zinc and arsenic from waste generated by a former zinc smelter.	DEP signed a mixed funding CO&A with the RP. DEP paid for 40% of the Site investigation and cleanup plan. The investigation and cleanup plan are complete and a Pre-Design Investigation work plan was approved. A second mixed funding CO&A was signed to pay for the cleanup of the site. DEP will pay 40% of the remediation costs. DEP is evaluating the RP's Natural Resource Damage Assessment submitted in August 2016.
Lakeside PCE	NE	Wayne	Peifer	Baker	Groundwater is contaminated with toxic VOCs. Public and private water supply wells are impacted.	DEP is monitoring private residential water supply treatment systems installed in 2006. The homeowners have agreed to conduct the O&M of their treatment systems. Residential wells with filters were sampled in May 2017. Environmental Covenants are being prepared for the properties with groundwater contamination.
Everglade Scrap Yard	SW	Westmoreland	Nelson	Ward	Soil and groundwater are contaminated with PCBs, dioxin and toxic VOCs at this abandoned scrap yard. Private water supply wells are impacted.	DEP completed hotspot removal and capping of the Site. DEP is maintaining the soil cap and monitoring groundwater. DEP will conduct groundwater monitoring for two more years before close out.

Harhai Landfill	SW	Westmoreland	Reese	Ward	There are allegations of industrial waste disposal at this abandoned landfill located in an area of private water supply wells.	Site characterization is complete. DEP received the Final Remedial Investigation Report for review. DEP will finalize the report and abandon onsite wells.
Deardorff Drive/Ridge Road	SC	York	Keefer	Folmer	The groundwater is contaminated with toxic VOCs. Private water supplies were impacted.	DEP replaced private wells with public water through a grant to the Planning Commission in 1992. DEP conducted a vapor intrusion study in 2010 and found no impact to properties at the Site. Groundwater sampling is planned for every two years to monitor the plumes. The next sampling event will take place in Fall 2017.
Emigsville TCE Site	SC	York	Gillespie	Wagner	The groundwater is contaminated with toxic VOCs.	DEP entered into a CO&A with the responsible party requiring them to obtain an Act 2 Standard in soil and groundwater by August 31, 2016. The standard has not been met. Public water has been extended to the affected area by the RP. No further HSCA work is planned.
Industrial Solvents and Chemical Company	SC	York	Keefer	Folmer	The groundwater and soils are contaminated with VOCs. Private water supply wells were impacted.	DEP replaced impacted private water supplies and completed remedial actions for waste and soil contamination. DEP installed vapor mitigation systems in August 2008. Site was sold in 2013. Deed Notifications have been recorded with the York County Recorder of Deeds. DEP will continue groundwater sampling in nearby residential area.

Key:

Region

SE - Southeast Region
SC - South-central Region
SW - Southwest Region
NE - Northeast Region
NC - North-central Region
NW - Northwest Region

Appendix B

Cleanup Activities by Responsible Parties (RPs)

Site Name	Region	County	House	Senate	Threat	Status of Work
Chevron Springdale	SW	Allegheny	Dermody	Vulakovich	Groundwater is contaminated with VOCs. Public water wells are impacted.	The RP is performing groundwater remediation and evaluating the Site with oversight by DEP. Groundwater sampling occurs semiannually with reports being sent to the DEP annually. The groundwater contamination plume appears to have stabilized.
Eastmont Dry Cleaners	SW	Allegheny	Markosek	Brewster	Soil and groundwater are contaminated with VOCs at this closed dry cleaner. Nearby homes have been impacted with vapor intrusion.	DEP previously installed vapor abatement systems in affected homes. DEP then entered into a CO&A with the property owner to conduct an investigation and remediation. The Remedial Investigation report was approved in November 2016. DEP is awaiting a cleanup plan for the site.
BWXT Shallow Land Disposal Area	SW	Armstrong	Pyle	White	This is an area formerly used for disposal of radioactive and chemical wastes from manufacturing operation.	The Army Corps conducted a cleanup of the radiological contamination, as this Site was formerly used by the federal government. DEP worked with the Army Corps and BWXT to clean up the chemical contamination. No further work is planned.
East Mills Disposal Area	SW	Beaver	Marshall	Vogel	Industrial waste disposal areas from steel making process are contaminated with metals and organics.	DEP is working with a new property owner to address Site contamination in conjunction with redevelopment.
Hydril	SW	Beaver	Marshall	Vogel	The groundwater is contaminated with toxic VOCs. Private wells are impacted.	The RP investigated groundwater contamination at the Site. The impacted private water supply wells have been connected to a public water supply. A vapor intrusion study was conducted at the Site. No further work is planned.
FR&S#3	SC	Berks	Maloney	Schwank	Groundwater and soil are contaminated with toxic VOCs.	The RP is implementing remedial actions for contaminated soils and groundwater under an agreement with DEP. They obtained relief of liability for Site soils in July 2013. To date, the RP has excavated contaminated soils from three areas on site and consolidated and capped these soils onsite. This part of the cleanup effort remains to be closed out under Act 2. The RPs are also investigating how to proceed with the groundwater cleanup issues onsite, utilizing a holistic approach, under Act 2.

Site Name	Region	County	House	Senate	Threat	Status of Work
UGI Utilities, Perkasio	SE	Bucks	Staats	McIlhinney	The Site contaminated with coal gasification process waste	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Initial Investigation Work Plan submitted to DEP for review.
UGI – Central Penn Gas, Bellefonte	NC	Centre	Benninghoff	Corman	The Site is contaminated with coal gasification process wastes.	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Groundwater/DNAPL monitoring was conducted.
Bishop Tube	SE	Chester	Milne	Dinniman	Soils and groundwater are contaminated with toxic VOCs. One residence is impacted with vapor intrusion from the contaminated groundwater.	The RP has submitted a plan to complete Remedial Investigation activities and is preparing a Feasibility Study to evaluate options to address sources of contamination within the bedrock, surface water, and groundwater. The property owner is proposing to redevelop the Site as a residential property and working with the DEP, DCED, and the township to gain approvals.
Forge PCE	SE	Chester	Kampf	Dinniman	Groundwater is contaminated with toxic VOCs and is a threat to surface water. Private water supply wells were impacted.	DEP permanently replaced impacted water supplies and completed a groundwater study in 1999. DEP is working with the current Site owners, who have submitted a Notice of Intent to Remediate for groundwater under Act 2. DEP and the property owners are currently negotiating a CO&A to resolve the owners' HSCA liability, including settlement of past costs.
UGI – Central Penn Gas, Oxford	SE	Chester	Lawrence	Dinniman	The Site is contaminated with coal gasification process wastes.	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Cleanup Plan approved by DEP and additional monitoring wells installed.
UGI – Central Penn Gas, Clearfield Boro	NC	Clearfield	Hanna	Scarnati	The Site is contaminated with coal gasification process wastes.	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Site investigation and cleanup is complete. Act 2 final report will be submitted to DEP once environmental covenants have been recorded.
Croda	NC	Clinton	Hanna	Scarnati	Groundwater is contaminated with toxic VOCs.	The RP currently performs continual pumping of groundwater from a recovery well into the sanitary sewer and the chlorinated solvents are treated at the public WWTP. The RP samples annually for chlorinated solvents in groundwater.

Site Name	Region	County	House	Senate	Threat	Status of Work
UGI – Penn Natural Gas, Bloomsburg	NC	Columbia	Millard	Gordner	The Site is contaminated with coal gasification process wastes.	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Remedial actions completed. Act 2 Final Report will be submitted in FY2017.
East Tenth Street	SE	Delaware	Kirkland	Killion	Groundwater is contaminated with toxic VOCs.	DEP completed a Prompt Interim Response to remove containerized wastes in 2000. The initial site investigation was completed in 2002. DEP then entered a CO&A with the RP allowing them to complete the soil remediation in 2005 and to perform further investigation. In May 2017, the RP completed a comprehensive remedial investigation. The RP is planning to conduct limited soil excavation activities to address soils exceeding nonresidential direct contact criteria.
GE Static Power	SE	Delaware	Miccarelli	Williams	Groundwater is contaminated with toxic VOCs.	The RP installed a waterline to affected homes in 2016. Further investigation is ongoing to delineate the contaminant plume. After completion of the vapor intrusion investigation and approval by DEP, a revised Cleanup Plan will be submitted.
UGI Utilities, Allen	NE	Lehigh	Mako	Scavello	The Site contaminated with coal gasification process waste	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. DEP approval of Initial Investigation Work Plan.
UGI Utilities, Catasauqua	NE	Lehigh	McNeill	Boscola	The Site contaminated with coal gasification process waste	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. DEP approved Initial Investigation Work Plan
UGI Utilities, Emmaus	NE	Lehigh	Simmons	Boscola	The Site contaminated with coal gasification process waste	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. DEP approved Initial Investigation Work Plan
UGI Utilities, Allentown	NE	Lehigh	Schweyer/Mackenzie	Browne	The Site contaminated with coal gasification process waste	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Preparations to implement the approved Supplemental Remedial Investigation Work Plan
UGI Utilities, Lebanon	SC	Lebanon	Ryan	Folmer	The Site contaminated with coal gasification process waste	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Initial Investigation Work Plan submitted to DEP for review.

Site Name	Region	County	House	Senate	Threat	Status of Work
Ivy Industrial Park	NE	Lackawanna	Kavulich, Flynn	Blake	Groundwater, soil and surface water are contaminated with toxic VOCs. Approximately 200 private water supply wells are impacted and have been provided temporary treatment systems.	The RPs completed the installation of a waterline to the affected homes in April 2017, except for four residences refusing or not responding. Private well abandonments are underway. They are also moving forward with remediation strategies to clean up the groundwater and soils.
UGI - Penn Natural Gas, Carbondale	NE	Lackawanna	Kavulich	Blake	The Site is contaminated with coal gasification process wastes.	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Preparation of Act 2 Final Report for submittal in FY2017.
UGI - Penn Natural Gas, Scranton Bridge Street	NE	Lackawanna	Haggerty, Flynn	Blake	The Site is contaminated with coal gasification process wastes.	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Site investigation and supplemental Site characterization activities were completed and a report is currently being generated for submission to the DEP in early 2017.
Precision National Plating Services	NE	Lackawanna	Kavulich	Blake	The groundwater is contaminated with chromium.	The RP is remediating this Site under the supervision of DEP and EPA and is conducting in-situ chemical injections to remediate the groundwater. Quarterly sampling is ongoing to monitor the effectiveness of the injections.
UGI Utilities, Manheim	SC	Lancaster	Miller, Sturla, Mentzer	Martin	The Site contaminated with coal gasification process waste	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Initial Investigation Work Plan submitted to DEP for review.
UGI - Penn Natural Gas, Nanticoke#1 and #2	NE	Luzerne	Mullery	Yudichak	The Site is contaminated with coal gasification process wastes.	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Coordinated access agreements to complete remediation activities on property. DNAPL recovery event conducted.
UGI - Central Penn Gas, Pittston	NE	Luzerne	Carroll	Yudichak	The Site contaminated with coal gasification process waste	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Development of Phase IIB Investigation Work Plan.
UGI Utilities, Hazelton	NE	Luzerne	Toohil	Yudichak	The Site contaminated with coal gasification process waste	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Initial Investigation Work Plan submitted to DEP for review.

Site Name	Region	County	House	Senate	Threat	Status of Work
Poly Clean Dry Cleaners	NE	Luzerne	Toohil	Yudichak	Groundwater and soils are contaminated with toxic VOCs. There is a threat of vapor intrusion into nearby residences.	DEP has signed an agreement with a private developer who has agreed to conduct the investigation. This Site is now in Act 2.
Trinity North & South	NW	Mercer	Nesbit	Brooks	Soils and groundwater are contaminated toxic VOCs, semi-VOCs, metals and pesticides.	The RP investigated the extent of the soil and groundwater contamination. The RP signed a CO&A with DEP to complete Act 2 cleanups at the Sites. The RP is actively completing the Act 2 cleanups.
Turtle Creek	SE	Montgomery	Quigley	Rafferty	Groundwater is contaminated with toxic VOCs. Private water supply wells are impacted.	The RPs have connected residences to public water. A DEP agreement with the RPs requires them to address the Site under the Act 2 Program. One of the RPs has received approvals for the soil and groundwater reports. The other RP has not taken their portion of the Site through Act 2 to date.
UGI - Central Penn Gas, Broadhead Creek	NE	Monroe	Madden	Scavello	The Site contaminated with coal gasification process waste	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Coordinated with EPA for pore water sampling.
Tobyhanna Former Artillery Ranges	NE	Monroe, Wayne	Madden, Peifer	Blake, Baker	Site Soils are contaminated with unexploded ordnance (UXO).	USACE's contractor cleared 98% of the high risk UXOs at the Site in 2016. Adaptive clearance activities revealed that areas formerly considered low risk for UXO had greater concentrations than previously believed. USACE is working on the funding to continue clearance activities.
UGI - Central Penn Gas, Shamokin	NC	Northumberland	Masser	Gordner	The Site is contaminated with coal gasification process wastes.	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Preparations to conduct an Interim Remedial Action were initiated.
UGI Utilities, Bethlehem (Crest Ave)	NE	Northampton	Samuelson	Boscola	The Site contaminated with coal gasification process waste	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. Initial Investigation Work Plan submitted to DEP for review.
UGI Utilities, Bethlehem (Leigh St)	NE	Northampton	Samuelson	Boscola	The Site contaminated with coal gasification process waste	Site investigation and cleanup is scheduled under a Multi-Site Agreement with DEP. DEP approved Initial Investigation Work Plan.

Site Name	Region	County	House	Senate	Threat	Status of Work
Jeannette Glass	SW	Westmoreland	Walsh	Ward	Site soils, surface water and groundwater are potentially contaminated with toxic VOCs, heavy metals, PCBs, and SVOCs.	The RP is conducting scrap metal removal and building demolition at the Site. DEP worked with the RP to address outstanding environmental issues. No further work is planned.
HMW Enterprises, Inc.	SC	York	Keefer	Regan	Groundwater is contaminated with toxic VOCs.	DEP has signed an agreement with a RP to address contamination at the Site. The RP has provided treatment systems to the impacted water supplies and placed Environmental Covenants on the properties. Public water has been extended to most affected properties. No further work is planned.

Appendix C

Federal Military Formerly Used Defense Sites (FUDS) Still to be Addressed in Pennsylvania

SITE NAME	MUNICIPALITY	COUNTY
Dravo Corp East Yard	Neville Island	Allegheny
NIKE PI-02	Rural Ridge	Allegheny
NIKE PI-03	Dorseyville	Allegheny
NIKE PH-07	Richboro	Bucks
NIKE PH-97/99	Warrington	Bucks
Keystone Ordnance Plant	Greenwood	Crawford
Olmsted AFB, Sunset Annex	Londonderry Twp.	Dauphin
Olmsted Air Force Base	Middletown	Dauphin
NIKE PH 75/78 (Media)	Media	Delaware
Marietta Air Force Station	Marietta	Lancaster
AVCO Lycoming Site	Williamsport	Lycoming
Tobyhanna Artillery Range	Tobyhanna	Monroe
NIKE PH-91 (Worcester)	Worcester Twp.	Montgomery
Frankford Arsenal	Philadelphia	Philadelphia
Susquehanna Ordnance Sub-Depot	Gregg Twp.	Union
NIKE PI-52 (Finleyville)	Union Twp.	Washington
NIKE PI-37 (Rillton)	Sewickley Twp.	Westmoreland
New Cumberland Army Depot (Marsh Run)	Fairview	York
York Naval Ordnance Plant	Springettsbury Twp.	York

Appendix D

Pennsylvania Sites on the Federal National Priorities List

The appendix contains a list of “active” sites on EPA’s National Priorities List. This list includes sites that are designated as “Proposed,” “Final,” or “Deleted” where long-term monitoring or actions are required to be reviewed. Further information on the status of these sites is included on EPA’s website.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Hunterstown Road	Responsible Party	SC	Adams	Moul	Alloway	Groundwater is contaminated with toxic VOCs. Soils contain toxic metals and asbestos.	Construction is complete. The soil remedy is complete and operating as designed. Groundwater remediation is ongoing. The third 5-year Review was completed in September 2015. The Site has been determined to be protective in the short term. However, to be protective in the long run, follow up actions are needed.
Keystone Landfill	Responsible Party	SC	Adams	Moul	Alloway	Groundwater and nearby surface water are contaminated with toxic VOCs and heavy metals.	The landfill cap and gas extraction system have been constructed. Groundwater extraction is ongoing. Treatment units have been installed on residential water supplies. The off-site wells are showing declining VOC concentrations.
Shriver's Corner	Responsible Party	SC	Adams	Moul	Alloway	Groundwater is contaminated with toxic VOCs and has affected residential wells in the area.	Remedial actions at the Site are complete. A new uncontaminated water system was constructed to replace affected residential wells. Groundwater remediation is ongoing. EPA will be conducting a Five-year review in 2018.
Westinghouse Elevator	Responsible Party	SC	Adams	Moul	Alloway	Groundwater and surface water are contaminated with toxic VOCs.	A public waterline was extended to affected residents and a groundwater pump and treat system is currently operating.
Breslube Penn	Responsible Party	SW	Allegheny	Mustio	Reschenthaler	Groundwater and soils are contaminated with toxic VOCs and PCBs. No residential wells have been impacted.	Construction is complete. The soil was capped and a slurry wall was installed in 2015. Groundwater treatment is ongoing.
Lindane Dump	Responsible Party	SW	Allegheny	Dermody	Vulakovich	The soil and groundwater are contaminated with pesticides.	The RPs installed a cap over the landfill and are operating a leachate treatment system at the Site. Monitoring of the site continues and annual reports are being submitted to the EPA and the Department.
Ohio River Park	Responsible Party	SW	Allegheny	Kulik	Fontana	Soils in disposal pits contained benzene, toluene and phenols. Soil and groundwater have been impacted.	Construction is complete. Groundwater monitoring and operation and maintenance of the multi-layer cap are ongoing by the RP. Annual reports are being submitted to the EPA and the Department.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
PICCO Resin Disposal	Responsible Party	SW	Allegheny	Saccone	Reschenthaler	Groundwater and surface water are contaminated with toxic VOCs and PAHs.	The Site is capped and leachate water is collected and pre-treated before discharge to the local sewage treatment plant (STP). EPA approved the RP's proposal to redesign the pre-treatment plant to address the concerns regarding discharge to the STP. There are still some environmental impacts to consider.
Craig Farm Drum Dump	Responsible Party	SW	Armstrong	Oberlander	White	The Site is contaminated with toxic VOCs and other wastes from the production of resorcinol.	Construction is complete. EPA deleted the Site from the NPL in September 2013. The RP is conducting O&M at the Site. EPA issued the 4th 5-year review in September 2014.
Bally Groundwater	Responsible Party	SC	Berks	Maloney	Mensch	Groundwater is contaminated with toxic VOCs and threatens area drinking water supply.	Groundwater is being pumped and treated by the RPs. A new uncontaminated public well and distribution system have been developed. Vapor intrusion has been evaluated and one mitigation unit was installed.
Berks Landfill	Responsible Party	SC	Berks	Cox	Argall	Groundwater is contaminated with toxic VOCs.	Leachate from the landfill is collected and sent to the local wastewater treatment plant. The RP is maintaining the cap and leachate collection system. The RP is also evaluating the option of discharging leachate onsite to eliminate use of the local wastewater treatment plant.
Berks Sand Pit	State Funded O&M	SC	Berks	Mackenzie	Mensch	Groundwater and the Middle Branch of the Perkiomen Creek are contaminated with toxic VOCs. Residential wells are regularly monitored to insure pollutants remain within safe drinking water levels.	Construction is complete. DEP took over O&M of the groundwater remediation (pump and treat) system in 2005. DEP completed two pilot studies to determine if in-situ biological oxidation is a viable treatment option and more effective than the current system. EPA is considering a change to the original remedial option chosen for the site. Negotiations are ongoing.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Brown's Battery Breaking	Responsible Party	SC	Berks	Knowles	Argall	Groundwater is contaminated with lead.	Construction is complete. Contaminated soils have been remediated. Groundwater remediation is ongoing. The RP sampled the groundwater plume in February 2016 after coming out of bankruptcy. It is hoped that groundwater injections will resume and the previously planned bedrock fracturing operations will be conducted.
Crossley Farms	EPA Funded and State O&M	SC	Berks	Mackenzie	Mensch	Toxic VOCs have been detected in on-site groundwater and residential wells down gradient of the Site.	EPA is operating a groundwater pump and treat system at the Site. DEP is maintaining the residential carbon treatment units and vapor intrusion systems installed by EPA at affected homes. EPA installed 4 more extraction wells to capture the plume on the south and southeast sides of the source area.
Cryo-Chem	State Funded O&M	SC	Berks	Maloney	Mensch	Groundwater is contaminated with toxic VOCs.	Construction is complete. DEP has taken over operation and maintenance of the groundwater remediation (pump and treat) system. The vapor phase carbon filter unit will be removed from the treatment system due to lower total VOCs concentrations in the groundwater.
Douglassville Disposal	Responsible Party and EPA Funded	SC	Berks	Maloney	Rafferty	Groundwater, surface water and soils are contaminated with toxic VOCs, heavy metals and PCBs.	Site remediation is complete. Five year reviews are ongoing to ensure effectiveness of the remedy. The last well sampling occurred in June 2016 and contamination was still found. EPA is evaluating remedies for removing the oil in one of the monitoring wells at the Site. EPA plans to transfer the project to DEP for long term O&M.
Price Battery	Responsible Party and EPA Funded	SC	Berks	Knowles	Argall	Plant soils contain high levels of lead. Residential properties are contaminated with lead from historic air deposition.	Residential lead-contaminated soil has been removed. The RP conducted a remedial investigation and feasibility study. DEP completed review of the documents and finalized comments. EPA is preparing a five-year review report.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Ryeland Road Arsenic	EPA Funded	SC	Berks	Cox	Argall	Site soils are contaminated with arsenic and lead. Some private properties are also impacted.	DEP has one more payment to EPA for the State's share of remedial action costs. EPA has relocated residents and removed contaminated soils. Phytoremediation of soils has been discontinued. EPA is finalizing the feasibility study, which evaluates remedial options.
Delta Quarries Landfill	Responsible Party	SC	Blair	Ward, McGinnis	Eichelberger	Groundwater and surface water are impacted by toxic VOCs and heavy metals.	Groundwater remedial action is complete. Operation and maintenance of the Site is ongoing. The 4th 5-year review was completed in May 2016. Subsequently, additional monitoring and recovery wells will be drilled in 2017 to look at the heavy metal issue.
Bell Landfill	Responsible Party	NC	Bradford	Pickett	Yaw	Leachate from the Site contains methylene chloride, vinyl chloride, manganese and arsenic.	The two Site landfills have been closed. On-site treatment of leachate via spray irrigation is underway as well as evaluation of on-site treatment to discharge directly to the stream.
Boarhead Farms	Responsible Party	SE	Bucks	Quinn	Mensch	Groundwater is contaminated with toxic VOCs. Wetlands, ponds and a small unnamed tributary to the Delaware River are affected by contaminated groundwater.	Residential water supplies have been equipped with carbon treatment systems. The groundwater treatment system is currently operating and the PRP Group is addressing the apparent bypass of the extraction system. EPA is planning to incorporate institutional controls into the remedy through a ROD Amendment in Summer 2017.
Chem Fab	EPA Funded	SE	Bucks	Quinn	McIlhinney	Groundwater is contaminated with toxic VOCs and toxic inorganic compounds. Contaminated groundwater threatens to impact nearby public water supply wells.	EPA is performing further investigations of the Site to evaluate remedial alternatives. EPA completed hot spot removal at the Site. EPA is expected to issue a ROD for a pump and treat facility in Summer 2017.
Croydon TCE	State Funded O&M	SE	Bucks	Davis, Galloway	Tomlinson	Groundwater and eight residential wells are contaminated with toxic VOCs. Several toxic VOCs were detected in the surface water samples from Hog Run Creek, a tributary of the Delaware River.	Construction is complete. DEP has taken over operation and maintenance of the groundwater remediation (pump and treat) system. DEP will conduct a pilot study to determine if in-situ bioremediation is a viable option at the Site in Summer 2017.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Dublin TCE	Responsible Party	SE	Bucks	Watson	McIlhinney	Groundwater is contaminated with toxic VOCs. Private water supplies were impacted.	A public waterline was extended to affected residences. An in-situ cleanup remedy failed at the site. EPA finalized an Explanation of Significant Differences to propose a pump and treat system in September 2015.
Fischer and Porter	Responsible Party	SE	Bucks	O'Neill	Greenleaf	Groundwater is contaminated with toxic VOCs and has affected public water supply wells in the area.	Construction is complete. The RP continues to operate a groundwater pump and treatment system. DEP oversees the NPDES discharge from the treatment system, operated by the RP.
Naval Air Development Center – Warminster	Responsible Party	SE	Bucks	O'Neill	Greenleaf	Groundwater is contaminated with toxic VOCs and Perfluorinated Compounds (PFCs). Soils and sediments are contaminated with heavy metals.	Construction is complete. All remedies for contaminated soil are in place. Remedies for contaminated groundwater are operating properly and successfully. The Navy placed a carbon treatment unit on the public supply wells that are impacted with PFCs. Homes with potable wells exceeding the HAL for PFOS and PFOA are being hooked up to the public water supply.
Revere Chemical	Responsible Party	SE	Bucks	Quinn	Mensch	Site soils were contaminated with heavy metals, toxic VOCs and PAHs. Shallow groundwater is contaminated with toxic VOCs. PFCs found in the surrounding area.	Construction is complete. Remedial action for soil contamination has been completed. Long term monitoring of the Site continues by the PRP group. EPA has asked the PRPs to conduct sampling for PFCs based on the discovery of PFCs in the surrounding area.
Watson Johnson Landfill	EPA Funded	SE	Bucks	Staats	Mensch	Landfill soils contain toxic VOCs, semi-VOCs, PCBs and metals. Groundwater, surface water and sediments are impacted.	Public water was extended to affected residences. EPA has selected a final cleanup plan to cap the landfill and implement bioremediation to clean up the groundwater. Two Superfund State Contracts were signed in September 2014. Cap construction is set to begin in late Summer 2017.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Bruin Lagoon	State Funded O&M	NW	Butler	James	White	Site remediation is complete. The Site remains fenced and abandoned. The Site has been deleted from the NPL.	Construction is complete. DEP is responsible for monitoring contaminated groundwater and maintaining a cap over the lagoon area until October 2020. The Annual Post Closure Monitoring Report was finalized by DEP in May 2017.
Tonolli Corporation	Responsible Party	NE	Carbon	Heffley	Yudichak	Site soils, groundwater and the Nesquehoning Creek are contaminated with lead, cadmium and other heavy metals.	Construction is complete. The RP is conducting operation and maintenance of the landfill cap and semi-annual groundwater monitoring. In November 2016, DEP received Environmental Covenants for the properties located on the Site.
Centre County Kepone	Responsible Party	NC	Centre	Benninghoff	Corman	Soil, sediment, groundwater and surface water are contaminated with toxic VOCs. Fish in Spring Creek were impacted. A portion of the Site has been deleted from the NPL.	Groundwater remediation (pump and treat) and soil remediation (vapor extraction) are ongoing. A deep groundwater well was installed in Fall 2015. The well was resampled in Spring 2016 to confirm low level VOC contamination. The RP and EPA continue to discuss the cleanup goals for the Site.
AIW Frank/Mid-County Mustang	State Funded O&M	SE	Chester	Milne	Dinniman	Site groundwater is contaminated with toxic VOCs. Contaminated groundwater has spread beyond the property boundaries, affecting private drinking water supply wells.	The groundwater treatment plant was shut down in favor of an in-situ chemical oxidation remedy initiated by EPA. In May 2017, EPA issued a draft ROD amendment. DEP's June 2017 concurrence letter was signed with conditions. DEP and EPA met with developers in 2016 and 2017 to discuss their proposed projects to develop the Site.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Blosenski Landfill	Responsible Party	SE	Chester	Hennessey	Rafferty	Groundwater and surface water contain toxic VOCs and heavy metals.	A public water line was installed to provide clean drinking water for residents. The pump and treat system has been shut down and EPA is evaluating the usefulness of the treatment system. EPA has pointed out 4 items that still need to be addressed: vapor intrusion, 1,4-dioxane contamination, groundwater performance standards being met and institutional controls in place. In May 2017, monitoring wells no longer needed at the Site were approved to be abandoned.
Foot Mineral	Responsible Party	SE	Chester	Milne	Dinniman	Contaminants of concern include lithium, boron, chromium and toxic VOCs are in the soil and groundwater. Some on-Site soil is slightly radioactive.	Construction is complete. A public water line was installed to service impacted homes. In-situ solidification of the quarry waste and on-site disposal is complete. EPA is working with the RP to place an Environmental Covenant on the property to prevent any residential use.
Kimberton TCE	Responsible Party	SE	Chester	Corbin	Rafferty	The groundwater is contaminated with toxic VOCs. A tributary to French Creek was also contaminated with toxic VOCs.	Construction is complete. The responsible party continues to operate a groundwater treat system. EPA and the PRP Group are in discussions to determine appropriate institutional controls at the Site.
Malvern TCE	Responsible Party	SE	Chester	Milne	Dinniman	The groundwater and soil are contaminated with toxic VOCs. Contaminated groundwater has affected area residential wells.	Construction of a waterline extension and soil vapor extraction system is completed. A groundwater pump and treat system was completed. Additional monitoring wells are being incorporated into the sampling routine to delineate the plume and complete the conceptual site model. Sampling of soils and perched groundwater was performed in May 2017.
Old Wilmington Road	EPA Funded	SE	Chester	Hennessey	Rafferty	Groundwater is contaminated with toxic VOCs and manganese. Private drinking wells have been impacted.	Carbon filtration systems were provided for residences with contaminated wells. EPA is conducting the Remedial Investigation and Feasibility Study. In January 2016, a public information session was held to educate the public about the status and future actions by EPA and DEP at the Site.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Paoli Rail Yard	Responsible Party	SE	Chester	Milne	McGarrigle	Soil, groundwater and surface water sediments are contaminated with PCBs.	Construction is complete. Operation and maintenance of the soil cap and surface water control features is ongoing. The third 5-year review was conducted in Spring 2016. Increasing PCB concentrations in some monitoring wells on Site were noted.
Strasburg Landfill	State Funded O&M	SE	Chester	Roe	Dinniman, Killion	The Site was contaminated with toxic metals and toxic VOCs.	Construction is complete. DEP is maintaining the landfill cap and operating the leachate treatment. DEP is currently working with the property owners to finalize an agreement regarding O&M. In January 2017, DEP met with the property owners to discuss their options for reuse of the landfill property. DEP is working with EPA to delist the Site from the NPL.
Welsh Road	EPA Funded and Responsible Party	SE	Chester	Hennessey	Rafferty	Soils and groundwater are contaminated with toxic VOCs and metals. Private wells were impacted.	Construction is complete. The RPs installed a cap over contaminated soils and a public waterline to affected residences. The PRP Group conducts operations and maintenance at the Site, including groundwater sampling and landfill gas monitoring.
William Dick Lagoons	Responsible Party	SE	Chester	Hennessey	Rafferty	Soil and groundwater are contaminated with toxic VOCs. Soils also contain pesticides.	A waterline was extended to affected residences. A Vapor Intrusion study shows no threats in the preliminary findings. A pump and treat system is in operation at the Site, but doesn't capture the entire plume. The RP will delineate the plume and address it in OU-4.
Jackson Ceramix	EPA Funded	NC/NW	Clearfield, Jefferson	Gabler, Dush	Scarnati	Wetland soils are contaminated with lead sludge waste.	EPA is conducting further Site Investigation and Feasibility Study to identify a cleanup remedy. The Remedial Investigation report and Treatability Study Work Plan were submitted in March 2017.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Drake Chemical	EPA Funded and Responsible Party	NC	Clinton	Hanna	Scarnati	Soils and groundwater are contaminated with toxic VOCs and semi-VOCs.	Construction is complete. EPA completed remediation of contaminated soil (incineration). The RP continues to monitor and treat groundwater contamination. EPA issued an Explanation of Significant Differences in August 2016 to modify the remedy.
Safety Light	EPA Funded	NC	Columbia	Millard	Gordner	Activities at the Site have resulted in radioactive contamination of soil, surface water, sediment and ground water. The Site owner is financially unable to complete the remedial actions.	EPA used the Removal Program to demolish contaminated buildings in 2014. EPA's Remedial Program completed the cleanup of OU1 in 2015. Groundwater (OU-2) is still being evaluated. OU-3 will address further soil and surface water contamination. The OU-3 ROD was issued in June 2016.
Saegertown Industrial Site Area	Responsible Party	NW	Crawford	Roae	Brooks	Groundwater is contaminated with toxic VOCs from previous industrial activities.	The RP is conducting in-situ biological oxidation to remediate the groundwater. The latest Five-year review was initiated in February 2017 and is expected to be finalized in 2018.
Naval Support Activity Site (Navy Ship Parts Control Center)	Responsible Party (US Military)	SC	Cumberland	Rothman	Regan	Groundwater is contaminated with heavy metals and PAHs. Soils contain heavy metals and toxic VOCs and sediments contain metals and PCBs.	The Site has been broken down into several operable units to facilitate remediation. Removal and remedial actions are ongoing.
Middletown Airfield	Responsible Party	SC	Dauphin	Mehaffie	Folmer	Groundwater and soils are contaminated with toxic VOCs.	Construction is complete. Current Site conditions remain protective. Firefighting foam constituents have been found in area groundwater. The RP conducted a drinking water pilot study with two types of granular activated carbon treatments to treat the additional contamination in 2016/2017. EPA's fifth Five-year Review should be completed in Summer 2017.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Havertown PCP Site	State Funded O&M	SE	Delaware	Vitali, Santora	Leach	Area groundwater is contaminated with pentachlorophenol. Non-aqueous phase compounds and oil are present and discharge into Naylor's Run.	DEP finished making payments to EPA for the state's share of remedial action costs. DEP took over operation and maintenance of the groundwater remediation (pump and treat) system in June 2013. DEP is conducting a pilot test to remove the pre-treatment system from the treatment system, as well as shutdown a few recovery wells.
Lower Darby Creek	EPA Funded and Responsible Party	SE	Delaware, Philadelphia	Miccarelli, McClinton	Williams	Area groundwater and seeps are contaminated with metals, PCBs and petroleum by-products. Contamination is seeping into Darby Creek.	EPA issued a ROD for Clearview Landfill in 2014, selecting an evapotranspiration cover as the remedy. EPA has started the Remedial Design which is expected to be completed in 2017. The PRP group is developing the Remedial Investigation and Feasibility Study for Folcroft Landfill.
Metro Container	EPA Funded and Responsible Party	SE	Delaware	Kirkland	Killion	Soil and groundwater are contaminated with toxic VOCs, PCBs, metals and PAHs.	Under an agreement between EPA and several RPs, removal actions were completed. These activities included construction of a new building for the Site owner, followed by building demolition and excavation of piping which had conveyed waste materials beneath the main site building. In May 2017, the RPs initiated field work for the Focused Remedial Investigation and Feasibility Study.
Wade Dump	State Funded O&M	SE	Delaware	Kirkland	Killion	Direct contact threats associated with soil exposure have been eliminated by the construction of the asphalt parking area. Groundwater is not used in the area.	Construction is complete. The Site has been deleted from the NPL. DEP is monitoring contaminated groundwater and maintaining the soil cap. In 2015, DEP was granted permission to abandon all monitoring wells but the two which still have contamination above health standards. DEP plans to petition EPA to abandon the last two monitoring wells based on May 2017 sample results.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Lord-Shope Landfill	Responsible Party	NW	Erie	Wentling	Laughlin	Groundwater is contaminated with toxic VOCs and heavy metals.	Construction is complete. The RP continues to operate and maintain the groundwater pump and treat system in conjunction with an in-situ vapor stripping and thermal treatment system.
Millcreek Dump Site	State Funded O&M	NW	Erie	Bizzarro	Laughlin	Groundwater is highly contaminated with toxic VOCs.	Construction is complete. DEP is operating the groundwater treatment system. EPA completed its fifth Five-year Review in September 2016. EPA found the constructed remedies to be protective of human health and the environment.
Letterkenny Property Disposal Office Area	Responsible Party (US Military)	SC	Franklin	Kauffman, Schemel	Alloway	Groundwater is contaminated with toxic VOCs and PCBs. Site soils contain toxic VOCs and heavy metals. Residential wells could be threatened.	The Site has been broken down into several operable units to facilitate remediation. OU-2 is evaluating natural attenuation parameters to verify that the plume is not migrating off-site. The Proposed Remedial Action Plan for OU-4, OU-6 and OU-8 was finalized in May 2016 and the draft Record of Decision was submitted in September 2016. OU-5 is complete and a Remedial Action Completion Report was submitted in August 2016.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Letterkenny Southeastern Area	Responsible Party (US Military)	SC	Franklin	Kauffman, Schemel	Alloway	Groundwater and Site soils are contaminated with toxic VOCs. Residential wells are potentially affected.	The site has been broken down into several operable units to facilitate remediation. The ROD is under review for OU-3. The Army is working with its contractor to prepare a ROD for OU5. The ROD for OU-6 was approved in March 2017. OU-8 is complete, with the RACR finalized in July 2016. The ROD was finalized in March 2016 for OU-09. The ROD for OU-11 was approved in March 2017. A landfill cap is in place and annual O&M is ongoing for OU-12. DEP concurred with the ROD in March 2016 for OU-14. On-site indoor air and sub-slab air sampling occurred in March 2016 and February 2017 for OU-15. The Army is evaluating off Site vapor intrusion issues under OU-16, sampling was conducted in February and March 2016, and Winter 2016/17.
Aladdin Plating	Responsible Party	NE	Lackawanna	Kavulich, Flynn	Blake	Groundwater was contaminated with chromium and other metals and threatened local water supplies.	Construction is complete. The Site has been deleted from the NPL. Nearby home wells were sampled and results were non-detect for Site contaminants. EPA is in negotiation with DEP to transition the site from the Removal Program to the Remedial Program.
Lackawanna Refuse	State Funded O&M	NE	Lackawanna	Kavulich	Blake	On-Site ground water was contaminated with nitrate, heavy metals, and toxic VOCs. Off-Site ground water was contaminated with the pesticide dieldrin.	Construction is complete. The Site has been deleted from the NPL. The property was recently purchased by a local businessman. DEP has turned over operation and maintenance responsibilities to that individual. The site O&M Plan has been updated and upon approval by EPA, sampling will be conducted every five years instead of annually.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Lehigh Electric	State Funded O&M	NE	Lackawanna	Kavulich	Blake	Site soils contain PCBs and trichlorobenzene contamination.	Construction is complete. The Site has been deleted from the NPL. DEP is maintaining the soil cap and monitoring contaminated groundwater. DEP met with a potential buyer of the property to inform them of the requirements of the Site.
Taylor Borough Dump	Responsible Party	NE	Lackawanna	Kavulich	Blake	Soils and groundwater are contaminated by toxic VOCs and heavy metals.	Construction is complete. The Site has been deleted from the NPL. City of Scranton is conducting the O&M of the Site.
Berkley Products Landfill	State Funded O&M	SC	Lancaster	Fee	Aument	Groundwater is contaminated with low levels of toxic VOCs and heavy metals.	Construction is complete and the Site has been deleted from the NPL. However, EPA conducted extensive sampling of the monitoring well network in summer 2016 and Spring 2017 to address 1,4-dioxane and metals in groundwater and surface water. DEP is responsible for maintaining the landfill cap.
Elizabethtown Landfill	Responsible Party	SC	Lancaster	Hickernell	Aument	Groundwater is contaminated with toxic VOCs and contamination seeps into the Conoy Creek.	Construction of the soil cap and gas extraction system is complete. The RP is proposing in-situ biological oxidation to remediate groundwater at the Site. EPA wants to begin a pump and treat system to remediate the groundwater. EPA's Five-year Review will be done in June 2018.
UGI Columbia	Responsible Party	SC	Lancaster	Hickernell	Aument	Groundwater is contaminated with toxic VOCs. Site soils and sediments in the Susquehanna River are contaminated with coal tar.	Construction is complete. Construction of the soil cap system is completed and contaminated river sediments have been removed. The RP continues to monitor contaminated groundwater. A Five-year review was issued on May 5, 2016.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Whitmoyer Laboratories	Responsible Party	SC	Lebanon	Diamond	Folmer	Soil and groundwater are contaminated with toxic VOCs and arsenic.	Construction is complete. Construction of a soil capping system is completed and protected by institutional controls. A groundwater extraction and treatment system is currently operating. The treatment plant had some NPDES exceedances in 2015. DEP's Water Quality section followed up on the exceedances and no further release has been noted. A 5-year review was issued in April 2015.
Dorney Road Landfill	Responsible Party	NE	Lehigh	Day	Browne	Site soils are contaminated with heavy metals and the groundwater is contaminated with toxic VOCs. Groundwater contamination has migrated from the Site into residential wells.	Construction is complete. Landfill area was capped. Treatment systems were provided for residents with affected wells. Groundwater monitoring is ongoing on a quarterly basis.
Heleva Landfill	EPA Funded and Responsible Party	NE	Lehigh	Day	Browne	Groundwater is contaminated with TCE and has affected a nearby municipal water supply well.	Construction is complete. The RPs have installed a groundwater pump and treat system. Operation of the treatment system is ongoing. The RPs proposed modifications to the system so influent water will pass through only one air stripper instead of two. EPA approved this request in March 2017.
Novak Landfill	Responsible Party	NE	Lehigh	Mako	Browne	Leachate and groundwater are contaminated with toxic VOCs and heavy metals. Residential wells were impacted.	Construction is complete. Operation and maintenance of the landfill cap and leachate/gas collection system continues as well as residential and monitoring well sampling. EPA issued a 5-year report for the Site in May 2016.
Rodale Manufacturing	Responsible Party	NE	Lehigh	Simmons	Boscola	Groundwater is contaminated with toxic VOCs and has migrated off-Site.	Construction is complete. A groundwater pump and treat system is being maintained by the RP. The RP installed additional monitoring wells in 2016. A natural attenuation study was completed and sent to DEP in April 2017.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Butler Mine Tunnel	Responsible Party	NE	Luzerne	Carroll	Yudichak	Area groundwater and surface water are contaminated with semi-VOCs and petroleum hydrocarbons.	Construction is complete. DEP received three Environmental Covenants in March 2017. In January 2017, the Closeout Report was drafted. The pre-closure site inspection was completed in April 2017. The RPs continued operation and maintenance of the remedy until June 5, 2017 (Consent Decree expired). Equipment can be decommissioned and disbursed as agreed upon by all parties.
C&D Recycling	Responsible Party	NE	Luzerne	Mullery	Yudichak	Heavy metals were found in on-Site and off-Site soils which potentially threaten local drinking water supplies.	Construction is complete. Contaminated soils, sediments and debris were excavated, treated and disposed of off-site. The RP sampled for dioxins and found that they are not a contaminant of concern at the Site. The Final Revised Report was received in October 2016. EPA sent a letter to DEP in May 2017 for concurrence to delist the site.
Foster Wheeler Church Road TCE Site	Responsible Party	NE	Luzerne	Mullery	Baker	Groundwater is contaminated with toxic VOCs. Private water supply wells were impacted and have been permanently replaced.	EPA has proposed the Site for the NPL. The RP completed the Remedial Investigation and Feasibility Study at the Site. Results of the Vapor Intrusion studies are expected in Summer 2017.
Valmont TCE Site	EPA Funded	NE	Luzerne	Mullery, Toohil	Yudichak	Groundwater in the area is contaminated with TCE. Five area residences have toxic VOCs in the indoor air above the acceptable human health risk based levels.	An aquifer study was conducted in January 2017. The conclusions of the study will be used in any future design or remediation work at the site. EPA is evaluating the complete study and reevaluating the remedy for the Site.
Avco (Texttron) Lycoming	Responsible Party	NC	Lycoming	Whealand	Yaw	Groundwater is contaminated with toxic VOCs and chromium and impacts a municipal supply well.	A pump and treat system was installed to treat contaminated groundwater and has been operating successfully. Vapor intrusion mitigation systems were installed in 2 residences next to the facility. EPA is drafting an Environmental Covenant to place use restrictions on the property. The fourth Five-year Review was conducted in April 2017 and EPA is drafting the report.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Osborne Landfill	Responsible Party	NW	Mercer	Nesbit	Brooks	Soil and groundwater were contaminated with various heavy metals, toxic VOCs and pentachlorophenol.	Construction is complete. Waste disposal areas have been capped and leachate collection and treatment is ongoing. No further work is planned.
Sharon Steel	EPA Funded	NW	Mercer	Longietti	Brooks	Groundwater contains elevated levels of metals. Site wetlands and the tributary from the wetlands to the Shenango River also show metals contamination.	EPA is proposing to implement a funded remedial action at the Site. The action will consist of installing a cap over waste piles. In December 2016, OU2 Interim Remedial Actions began and OU1 Response Action Plan was approved by EPA.
Westinghouse Sharon	Responsible Party	NW	Mercer	Longietti	Brooks	Soil, sediment, and groundwater were contaminated with toxic VOCs, PCBs and metals.	Construction is complete. The RP is currently operating and maintaining the Site. In December 2016, storm sewer repair work was approved by DEP and EPA to help eliminate recontamination.
Jacks Creek	Responsible Party	SC	Mifflin	Benninghoff, Harris	Corman	Site soils and sediments in Jack's Creek are contaminated with heavy metals and PCBs. Fish are affected.	Construction is complete. Soils and wastes were treated and placed in a capped landfill on site. Groundwater monitoring is ongoing. In April 2016, EPA requested that heavy metal sediment sampling be added to the Site's sampling regime due to ecological toxicity. Samples were taken in June 2017 and DEP is awaiting results.
Brodhead Creek MGP	EPA Funded and Responsible Party	NE	Monroe	Madden	Scavello	Groundwater, surface water and soils were contaminated with coal tar.	Construction is complete. The Site was deleted from the NPL. Monitoring of contaminated groundwater is ongoing. EPA approved the RP's requested sampling plan changes.
Butz Landfill	State Funded O&M	NE	Monroe	Rader	Scavello	Activities at the Site have resulted in high levels of toxic VOCs in domestic wells south of the landfill.	Construction is complete. DEP took over operation of the groundwater remediation (pump and treat) system in October 2011. An Environmental Covenant was signed in 2015. A portion of the site was sold and DEP received some cost recovery. In February 2017 Capture Zone Analysis was conducted and the sampling and analysis plan was updated.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Tobyhanna Army Depot	Responsible Party	NE	Monroe	Madden	Blake	Residential wells are contaminated with organic solvents, primarily TCE and tetrachloroethylene (PCE).	Construction of a public waterline to affected residences is complete. Four new potable wells have been drilled for the Depot where all samples were non-detect. The Depot wants to clear part of the impacted area for Unrestricted Use and Unlimited Exposure.
Ambler Asbestos	Responsible Party	SE	Montgomery	Daley	Greenleaf	Soils are contaminated with asbestos waste.	Construction is complete. RPs are maintaining the Site. NOV's have been issued to the RPs for actions violating the ICs at the Site. DEP is working to enforce the CO&A it signed with the RP. DEP received a Draft Fill Removal Plan from the property owners in March 2017.
Baghurst Alley	EPA Funded	SE	Montgomery	Toepel	Mensch	Groundwater is contaminated with toxic VOCs.	EPA is working with the local government and the Water Authority to extend the municipal supply. Passive soil gas sampling confirmed findings of DEP's source area investigation and identified a small hotspot area. EPA is currently performing limited soil investigation and hopes to use this information to develop a site remediation strategy.
BoRit Asbestos	EPA Funded	SE	Montgomery	Stephens, Daley	Greenleaf, Hughes, Leach	The Site was contaminated with asbestos and asbestos-containing materials.	Stream bank stabilization was completed on the Wissahickon and Rose Valley Creek, and the pile and park were capped. The reservoir was drained, and the sides were reinforced. The ROD for the Site is expected to be issued in late 2017.
Commodore Semiconductor	Responsible Party	SE	Montgomery	Corr	Rafferty	Groundwater is contaminated with toxic VOCs and Freon and has affected area residential wells.	Construction is complete. Operation and maintenance of the groundwater recovery and treatment system is ongoing. During the last two years, the pump and treat system has been transitioning to reduced-activity status.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Crater Resources	Responsible Party	SE	Montgomery	Briggs	Leach	Soil and groundwater are contaminated with VOCs and semi- VOCs.	The RP is addressing contaminated soil by excavating and disposing on-site according to approved plans. A developer has requested a change to the ROD to allow for residential redevelopment of two parts of the Site. EPA has requested that further studies be conducted before agreeing to the request.
Henderson Road	Responsible Party	SE	Montgomery	Briggs	Leach	Groundwater and the Upper Merion reservoir are contaminated with toxic VOCs.	Construction is complete. The RPs have installed a cap and leachate collection system at the landfill, on-site groundwater and vapor extraction systems, and a treatment plant to address the contaminated water and vapor concerns.
Moyer Landfill	State Funded O&M	SE	Montgomery	Corr	Rafferty	Leachate from the Site contains TCE and nickel.	Construction is complete. DEP maintains the cap and leachate collection system and performs leachate sampling. In May 2017, DEP executed a Prospective Purchaser Agreement (PPA) to complete the sale of the property. The PPA detailed the new property owner's ongoing O&M responsibilities for the Site.
Naval Air Station Joint Reserve Base, Willow Grove	Responsible Party	SE	Montgomery	Stephens	Greenleaf	Drinking water supply wells are contaminated with toxic VOCs and Perfluorinated Compounds (PFCs).	Remedial activities are ongoing at multiple areas on the base. A Remedial Investigation is underway to address the PFC contamination in the groundwater. The RP is connecting affected homes to public water and placing treatment on the contaminated public supply wells.
North Penn 1	State Funded O&M	SE	Montgomery	Godshall	Greenleaf	The ground water is contaminated with toxic VOCs.	Construction is complete for the removal and off-Site disposal of contaminated soil and for the groundwater treatment system. DEP is operating the groundwater remediation (pump and treat) system.
North Penn 2	Responsible Party	SE	Montgomery	Godshall	Greenleaf	Wetland soils and surface water sediments are contaminated with heavy metals. Groundwater is contaminated with toxic VOCs.	Remedial activities are complete. The RPs continue to implement the groundwater cleanup plan. TCE levels continue to decrease in the groundwater with continued use of the groundwater extraction system.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
North Penn 5	EPA Funded & Responsible Party	SE	Montgomery, Bucks	Stephens, Watson	McIlhinney, Greenleaf	Site groundwater is contaminated with toxic VOCs. Contamination has affected one of the North Penn Water Authority production wells.	OU1: EPA issued a ROD Amendment in July 2016 selecting optimized pump and treat as the final remedy. A Pre-Remedial Design Investigation Work Plan was submitted in May 2017. OU2: The bioaugmentation remedy is ongoing. A Unilateral Administrative Order was issued in January 2017 for a Remedial Investigation and Feasibility Study of the bedrock aquifer. OU3: EPA is conducting a pilot study to test the effectiveness of chemical oxidation per the 2004 ROD.
North Penn 6	EPA Funded & State Funded O&M	SE	Montgomery	Godshall	Mensch	Site groundwater is contaminated with toxic VOCs. Contamination has affected several of the North Penn Water Authority production wells.	DEP is making payments to EPA for the State's share of remedial action costs. DEP took over 3 of the pump and treat systems. DEP is anticipating taking over 2 additional systems in 2017.
North Penn 7	Responsible Party & EPA Funded	SE	Montgomery	Harper	Greenleaf	Site groundwater is contaminated with toxic VOCs. Contamination has affected several of the North Penn Water Authority production wells.	EPA removed areas of soil contamination. EPA issued a No Action Proposed Remedial Action Plan in Fall 2016 for Vapor Intrusion at the Site based on no risk being found in samples collected between 2011 and 2014.
North Penn 12	Responsible Party	SE	Montgomery	Bradford	Rafferty	Groundwater in the area is contaminated with toxic VOCs.	Construction is complete. The RP is maintaining the groundwater treatment plant. They also conducted an in-situ chemical oxidation pilot study implemented in early 2016. The Pilot Study wells were shut down in April 2017 and will be sampled for post-injection and recirculation performance monitoring.
Occidental Chemical	Responsible Party	SE	Montgomery	Quigley	Rafferty	Groundwater and soils are contaminated with toxic VOCs.	Construction is complete. The RP is operating the groundwater remediation system. In 2015, an Environmental Covenant was placed on the property restricting the use of groundwater on the Site. In April 2017 EPA recommended that the responsible party perform a Capture Zone Analysis to determine the overall effectiveness of the continued remedy of pump and treat.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Raymark NPL Site	State Funded O&M	SE	Montgomery	Murt	Greenleaf	Groundwater is contaminated with toxic VOCs. Contaminated groundwater has migrated off-Site.	Construction is complete. The property owner is maintaining the lagoon caps. DEP took over the groundwater remediation (pump & treat) system. EPA is expanding a Vapor Intrusion study and installed 10 new shallow monitoring wells at the Site.
Salford Quarry	EPA Funded & Responsible Party	SE	Montgomery	Toepel	Mensch	Residential wells are contaminated with boron.	All residences with impacted or threatened wells have been connected to the public water supply. EPA issued the OU-1 (Waste/Soil) in September 2013. In response to a January 2016 Value Engineering Report issued by the USACE, EPA is considering amending the ROD to reduce costs.
Stanley Kessler	Responsible Party	SE	Montgomery	Briggs	Leach	Soil and groundwater are contaminated with toxic VOCs.	Construction is complete. The existing pump and treat system is successfully removing toxic VOCs from captured groundwater. A vapor intrusion building inspection was completed in March 2015 and several gaps/cracks were sealed. A capture zone analysis was completed in May 2015 and upon EPA's review, no further action is required.
Tank Car Corporation of America	EPA Funded	SE	Montgomery	McCarter	Haywood	Soil is contaminated with PAH and heavy metals.	EPA conducted a removal action as well as a consolidation/capping action at the Site. Actions were taken under the Removal Program. EPA and DEP are working with the Township to redevelop the Site into recreational fields. The Township showed interest in working with DEP to remediate the Site through a Prospective Purchaser Agreement under Act 2.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Tyson's Dump	Responsible Party	SE	Montgomery	Briggs	Leach	Soils and groundwater are contaminated with toxic VOCs. Schuylkill River is impacted.	Construction is complete. An investigation into the effectiveness of the pump and treatment system was initiated in 2016. Six of the extraction wells are scheduled to be taken off-line. In April 2017, a work plan to study the current conditions under ambient (non-watering) conditions was submitted. Upon approval of the work plan, irrigation will temporarily cease to conduct the investigation to determine if conditions have improved to allow for permanent cessation of the wet soil cover.
MW Manufacturing	Responsible Party	NC	Montour	Masser	Gordner	Soil and groundwater are contaminated with chlorinated solvents.	Construction is complete. Contaminated soil and wastes were remediated. A groundwater pump and treat system was constructed and continues to operate successfully. The fifth 5-year review was completed in August 2015. A new chemical storage room was constructed in April 2017 to allow for direct chemical delivery.
Hellertown Mfg. Site	State Funded O&M	NE	Northampton	Freeman	Boscola	Groundwater at the Site is contaminated with toxic VOCs, which have migrated off-Site toward the nearby Saucon Creek.	Construction is complete. DEP has taken over maintenance of the lagoon cap and operation of the groundwater remediation (pump and treat) system. EPA initiated a Site Optimization Study of the Site. DEP received the Draft Optimization Review Memorandum in May 2017.
Industrial Lane	Responsible Party	NE	Northampton	Freeman	Boscola	Groundwater is contaminated with toxic VOCs. Several private water supply wells have been impacted.	Construction is complete. Waterlines have been installed to replace impacted wells. The waste disposal area has been capped. A groundwater remediation system was installed and continues to operate. An Environmental Covenant to restrict groundwater use at the Site was recorded in September 2016.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Enterprise Avenue Landfill	Responsible Party	SE	Philadelphia	Donatucci	Farnese	Soil and Groundwater is contaminated with toxic VOCs and metals.	City of Philadelphia operates a pump and treat system at the Site. The RP initiated in-situ chemical oxidation of the groundwater. The data shows mixed results for that treatment so far. Sampling revealed a slight increase in detections of two VOCs. Two additional sampling rounds will be conducted. A Supplemental Pilot Test report will be submitted following completion of the sampling.
Franklin Slag Pile	EPA Funded	SE	Philadelphia	Donatucci	Farnese	Slag piles contain various heavy metals, including lead, beryllium and copper.	EPA has proposed a remedy to construct a RCRA cap and monitor the groundwater. DEP has not concurred with the proposed ROD. EPA continues to look at remedial alternatives.
Metal Bank	Responsible Party	SE	Philadelphia	Driscoll	Sabatina	Groundwater, soils and Delaware River sediments are contaminated with PCBs.	EPA is currently evaluating the need for additional biological monitoring activities. Sediment Sampling took place in 2015 and 2016. EPA is evaluating the results. The sheet pile wall showed signs of movement and repairs were completed in July 2016. The property was sold in August 2016. A Long-Term Monitoring work plan addendum will document any reassignment of roles and responsibilities.
State Road Metal Bank	EPA Funded	SE	Philadelphia	Driscoll	Sabatina	Soil is contaminated with PCBs.	Under an agreement with EPA, PennDOT performed remedial activities at the Site and received reimbursement from a trust fund established by court order. PennDOT completed all work at the site, including sewer lining and waste disposal in October 2015. Under a settlement agreement between the PRP Group and EPA, the remaining removal action components were completed in October 2016.
Eastern Diversified Metals (EDM)	Responsible Party	NE	Schuylkill	Knowles	Argall	Waste piles and sediments contain heavy metals, PCBs and toxic VOCs.	Construction is complete. A multi-layer cap was installed to contain wastes on-site. The responsible party continues to maintain the Site.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
McAdoo Associates	Responsible Party	NE	Schuykill	Knowles	Argall	Groundwater and soils are contaminated with toxic VOCs and heavy metals.	Construction is complete. Contaminated soils were removed from the Site. The RP continues to monitor groundwater. Annual sampling of the groundwater takes place in May.
Allied Signal (former Bendix Flight Systems)	Responsible Party	NE	Susquehanna	Fritz	Yaw	Groundwater, surface water and some private wells are contaminated with toxic VOCs.	Construction is complete. Remediation of contaminated groundwater (pump and treat) is ongoing. The RP addressed data gaps by sampling nearby home wells and conducting a site characterization in 2016. A draft Supplemental Remedial Investigation/Focused Feasibility Study Work Plan was received and is planned to be finalized in Summer 2017.
AMP Glen Rock	Responsible Party	SC	York	Klunk	Wagner	Groundwater, surface water and soils are contaminated with toxic VOCs.	Construction is complete. Operation and maintenance of the groundwater treatment system (pump and treat) is ongoing. The RP continues to monitor and evaluate the plume and treatment system.
East Mt. Zion Landfill	State Funded O&M	SC	York	Gillespie	Folmer	The groundwater is contaminated with toxic VOCs. Residential wells show no signs of contamination, and the majority of residents are on public water.	Construction is complete. DEP is responsible for maintaining the landfill cap and monitoring groundwater contamination. In May 2016, the 10-acre landfill cap vegetation was altered to deter groundhogs and maintain integrity of the cap. Ongoing methane gas monitoring occurs quarterly and groundwater wells are sampled for VOCs annually.
Modern Sanitation Landfill	Responsible Party	SC	York	Saylor	Wagner	Groundwater, surface water and soils are contaminated with toxic VOCs. Contamination impacts area residential wells.	Construction is complete. A landfill cap system and fencing were installed. Contaminated leachate and groundwater are collected and treated.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Old City of York Landfill	Responsible Party	SC	York	Phillips-Hill	Wagner	Groundwater and domestic wells were contaminated with toxic VOCs. Surface water contains heavy metals.	Construction is complete. Groundwater extraction and treatment has been decommissioned. Groundwater contamination is being monitored and land use controls are in place. The fourth 5-year review was signed February 26, 2016. Rerouting of seeps to prevent migration of iron into the unnamed tributary and the creek is planned for June 2017.
York County Landfill	Responsible Party	SC	York	Phillips-Hill	Wagner	Groundwater is contaminated with toxic VOCs.	Construction is complete. The Site was deleted from the NPL in 2005. The RP continues to operate and maintain a groundwater pump and treat system. The fourth five-year review should be completed by September 2017.

Abbreviations, Terms:

Lead Agency:	The entity that is performing the response actions. This could be EPA, DEP or the responsible parties (e.g. property owner, operator of facility, generators of waste disposed) as defined under federal law.
DEP Region:	DEP has six regional offices that directly oversee response actions: SE - Southeast, NE - Northeast, SC - South-central, NC - North-central, SW - Southwest, NW - Northwest. See DEP website for locations and phone numbers.
NPL:	“National Priorities List” – A list of sites in the nation maintained by EPA. EPA scores threats posed by the release of hazardous substances and then proposes sites for the list. After a public comment period, EPA declares the site in final status and proceeds to investigate, develop and implement cleanup plans. Sites are deleted when remediation goals and standards in the cleanup plan are achieved; however, many sites require long-term monitoring and other actions to maintain the standard.
Construction	A stage of the project when remedial systems and controls have been installed or are operating that address all threats posed by contamination at the site. However, the cleanup plan goals and standards have not been achieved; for instance, concentration of contaminants in the groundwater may still be higher than those levels determined to be safe for unrestricted use.
Complete:	

O&M: “Operation and Maintenance” – Actions required to maintain a response action or to operate a remedial system that has been constructed. For instance, groundwater “pump and treat” may be designed to operate for more than 30 years before groundwater contamination levels meet remediation goals. Landfill or contaminated soil covers need to be maintained in perpetuity.

Land Use Controls: Environmental covenants and deed restrictions placed on property to prevent contact with contamination that is left at the site.

Appendix E

Financial Statements

Statement of Revenue, Expenditures and Commitments

(dollar amounts in thousands)

	<i>FY 2015-16</i>	<i>FY 2016-17</i>	<i>FY 2017-18</i>
	<i>(Actual)</i>	<i>(Actual)</i>	<i>(Rebudget/ESN)</i>
Beginning Balance	\$ 58,760	\$ 61,075	\$ 61,976
Revenue and Receipts:			
<i>Transfer from Capital Stocks Franchise Tax</i>	\$ 40,000	\$ 40,000	\$ 4,100
<i>Act 13 Impact Fees</i>	\$ 8,393	\$ 8,102	\$ 18,118
<i>Hazardous Waste Fees</i>	\$ 2,277	\$ 1,735	\$ 2,300
<i>Fines and Penalties</i>	\$ 1	\$ 1	\$ -
<i>Interest/Treasury Investment Income</i>	\$ 804	\$ 1,128	\$ 855
<i>Transfer to Environmental Education Fund</i>	\$ -	\$ -	\$ -
<i>Refunds of Expenditures</i>	\$ 385	\$ -	\$ -
<i>Cost Recovery</i>	\$ 1,454	\$ 694	\$ 1,550
<i>Cost Recovery (Misc Revenue)</i>	\$ 1	\$ -	\$ -
Revenue Total	\$ 53,315	\$ 51,660	\$ 26,923
<i>Prior Year Lapse</i>	\$ 3,539	\$ 4,849	\$ -
Total Available	<u>\$ 115,614</u>	<u>\$ 117,584</u>	<u>\$ 88,899</u>
Expenditures/Commitments:			
<i>General Operations - Personnel and Benefits</i>	\$ 15,573	\$ 15,250	\$ 15,173
<i>General Operations - Operating Expenses</i>	\$ 2,217	\$ 3,960	\$ 2,968
<i>General Operations - Fixed Assets</i>	\$ 147	\$ 77	\$ 29
<i>General Operations - Transfers (IT Support)</i>	\$ 3,697	\$ 4,296	\$ 4,276
<i>General Operations Subtotal</i>	\$ 21,634	\$ 23,583	\$ 22,446
 <i>Hazardous Sites Cleanup</i>	 \$ 26,900	 \$ 26,000	 \$ 24,000
 <i>Host Municipality Grants</i>	 \$ 5	 \$ 25	 \$ 25
<i>Transfer to Industrial Sites Cleanup</i>	\$ 2,000	\$ 2,000	\$ 2,000
<i>Transfer to Industrial Env. Assessments</i>	\$ 2,000	\$ 2,000	\$ 2,000
<i>Transfer to Household Haz Waste Acct</i>	\$ 1,000	\$ 1,000	\$ 1,000
<i>Small Business Pollution Prevention</i>	\$ 1,000	\$ 1,000	\$ 1,000
Expenditures/Commitments Total	\$ 54,539	\$ 52,471	\$ 52,471
 Ending Balance	 \$ 61,075	 \$ 61,976	 \$ 36,428

All revenue based on SAP records. Actual expenditure/commitment figures include unpaid commitments as of 7/1/2016 and 7/1/2017 of the respective fiscal years. Prior year lapse includes commitments that were not expended during the prior fiscal year.

Prepared by DEP Fiscal Management

HAZARDOUS SITES CLEANUP FUND

BALANCE SHEET

As of June 30, 2017

(UNAUDITED)

	2017
ASSETS	
Cash in Transit	\$ 0
Temporary Investments	86,247,364
Receivables	0
Payroll	0
Advance to Other Fund	
TOTAL	
ASSETS	<u><u>\$ 86,247,364</u></u>
 LIABILITIES AND FUND BALANCE	
Liabilities:	
Accounts Payable and Accrued Liabilities	\$ 641,147
Invoices Payable	1,351,379
Accrued Payables Goods Receipts	1,480
Due to Political Subdivisions	0
TOTAL LIABILITIES	<u><u>\$ 1,994,006</u></u>
 FUND	
BALANCE	
Restricted for:	
Encumbrances	\$ 12,047,224
Advances	0
Environmental Protection	72,206,134
TOTAL FUND	
BALANCE	<u><u>84,253,358</u></u>
TOTAL LIABILITIES AND FUND BALANCE	<u><u>\$ 86,247,364</u></u>

Information taken from Report Prepared by the Office of Comptroller Operations

Appendix F

Hazardous Sites Cleanup Project Activities and Expenditures, FY 2016-17

This appendix lists the estimated expenditures (not including DEP personnel and general operating costs) and the type of response activity performed for each project funded by DEP using the Hazardous Sites Cleanup Fund in the fiscal year July 1, 2016– June 30, 2017. The estimated expenditures include the actual expenditures existing as of July 1, 2017, and an estimate of the obligation remaining to be paid under existing contracts for work completed, but not invoiced, audited and expended as of July 1, 2017. The description of the type of response activity performed includes whether the activity was initiated, completed or was continuing from prior fiscal years.

Hazardous Sites Cleanup Project Estimated Expenditures and Activities

Fiscal Year July 1, 2016 – June 30, 2017

County	Project Name	Estimated Expenditure	Type of Response Activity
Adams	ADSCO	\$29,537	Continued Water Supply Replacement and Operation and Maintenance of Closed Landfill
Adams	J.C. Cleaners	\$65,169	Continued Operation and Maintenance of Groundwater Remediation
Allegheny	Keystone Metals Reduction	\$42,832	Continued Further Investigation
Allegheny	Mazarro Landfill McKees Rocks	\$35,885	Continued Further Investigation
Allegheny	McQuaid Property	\$10,356	Continued Further Investigation and Interim Response
Allegheny	Tri-State Petroleum Recovery	\$604,566	Continued Interim Response
Beaver	General Alloy Casting Company	\$2,537,936	Initiated Interim Response
Beaver	Kuhn 's Landfill	\$178,309	Continued Interim Response
Beaver	LVT Benzol Tank Area	\$6,989	Continued Further Investigation
Berks	Algonquin Chemical	\$1,281	Continued Operation and Maintenance of Groundwater Remediation
Berks	Berks Sand Pit	\$12,611.46	Continued Operation and Maintenance of Superfund Remedial Action
Berks	Clements Landfill	\$2,981	Abandonment of Monitoring Wells
Berks	Crossley Farms	\$364,180	Continued Operation and Maintenance of Superfund Remedial Action and State Superfund Contract Payment
Berks	Cryo-Chem	\$144,826	Continued Operation and Maintenance of Superfund Remedial Action
Berks	DeMarco Landscaping	\$23,952	Continued Further Investigation and Interim Response
Berks	Franklin Street	\$9,815	Continued Interim Response
Berks	Mt. Laurel Battery	\$12	Continued Interim Response
Berks	Noll Lane Battery Casings	\$760,863	Continued Interim Response
Berks	Northern Berks Battery Casings	\$556	Continued Interim Response
Berks	Topton	\$96,081	Continued Water Supply Replacement
Bradford	Canton Groundwater Investigation	\$22,869	Initiated Further Investigation
Bucks	Croydon TCE	\$92,836	Continued Operation and Maintenance of Superfund remedial action
Bucks	Easton Road PFC	\$190,927	Initiated Further Investigation
Bucks	Furlong Manufacturing	\$2,515	Continued Water Supply Replacement
Bucks	Jacksonville TCE	\$18,937	Continued Further Investigation

Hazardous Sites Cleanup Project Estimated Expenditures and Activities

Fiscal Year July 1, 2016 – June 30, 2017

County	Project Name	Estimated Expenditure	Type of Response Activity
Bucks	Lawn Ave	\$14,919	Continued Further Investigation and Water Supply Replacement
Bucks	Lenape	\$23,815	Abandonment of Monitoring Wells
Bucks	Mill Creek TCE	\$8,363	Abandonment of Monitoring Wells
Bucks	Morris Run	\$11,473	Abandonment of Monitoring Wells
Bucks	Nockamixon TCE	\$29,668	Continued Further Investigation and Water Supply Replacement
Bucks	Perkasie TCE	\$9,834	Continued Further Investigation
Bucks & Montgomery	PFC Prompt Interim Response	\$179	Initiated Further Investigation
Bucks	Railroad TCE	\$1,955,279	Continued Further Investigation
Bucks	Ridge Run PFAS	\$90,871	Continued Further Investigation and Water Supply Replacement
Bucks	Tamenend PCE	\$19,851	Continued Further Investigation and Water Supply Replacement
Bucks	Watson Johnson Landfill	\$39,240	State Superfund Contract Payments
Butler	Bruin Lagoon	\$45,242	Continued Operation and Maintenance of Superfund Remedial Action
Butler & Armstrong	Apple Road Disposal Area – Bear Creek	\$891	Continued Operation and Maintenance of Landfill Closure
Butler	Shaler JTC	\$28,337	Continued Monitoring of Contaminated Groundwater
Centre	Phillipsburg Rod & Gun Club	\$22,533	Continued Further Investigation and Interim Response
Chester	AIW Frank	\$1,494	Continued Operation and Maintenance of Superfund Remedial Action
Chester	Quality Service Cleaners	\$182,273	Continued Prompt Interim Response
Chester	Strasburg Landfill	\$10,894	Continued Operation and Maintenance of Superfund Remedial Action
Clinton	Karnish Instruments	\$1,410,725	Mixed Funding Consent Order & Agreement Payment
Clinton	Lock Haven Laundry	\$160,669	Continued Further Investigation
Columbia	Safety Light	\$569,080	State Superfund Contract Payment
Cumberland	Allen Road	\$3,736	Continued Further Investigation and Water Supply Replacement
Delaware	Havertown PCP	\$398,222	Continued Operation and Maintenance of Groundwater Remediation
Delaware & Philadelphia	Lower Darby Creek	\$4122	Initiated Technical Assistance Contract

Hazardous Sites Cleanup Project Estimated Expenditures and Activities

Fiscal Year July 1, 2016 – June 30, 2017

County	Project Name	Estimated Expenditure	Type of Response Activity
Elk	Ridgway Borough Municipal Landfill	\$3,960	Completed Further Investigation
Erie	Filmore	\$68,874	Completed Interim Response
Erie	Mill Creek Dump Site	\$798,734	Continued Operation and Maintenance of Superfund Remedial Action
Erie	Presque Isle Chemical	\$174,184	Continued Operation and Maintenance of Groundwater Remediation
Franklin	Tomstown TCE	\$2,571,868	Continued Further Investigation and Water Supply Replacement
Franklin	Waynesboro TCE	\$203,487	Continued Water Supply Replacement
Indiana	Tunnelton Liquids	\$741	Completed Interim Response
Jefferson	Punxsutawney GW Contamination	\$90,648	Continued Interim Response
Lackawanna	Ivy Industrial Park	\$5,771	Continued Further Investigation
Lackawanna	Torch Lumber Mills	\$46,774	Continued Interim Response and Further Investigation
Lancaster	Berkley Products Landfill	\$12,027	Continued Operation and Maintenance of Superfund Remedial Action
Lancaster	Berkley Products Plant	\$110,207	Continued Operation and Maintenance of Interim Response
Lancaster	Conestoga Pines Park	\$1,449	Continued Interim Response
Lancaster	Intercourse TCE	\$3,881,491	Continued Further Investigation and Water Supply Replacement
Lancaster	Raymark Industries Inc.	\$375	Continued Operation and Maintenance of Landfill Closure
Lawrence	Remacor Site	\$36,000	Continued Further Investigation and Initiated Interim Response
Lehigh	High Quality Plating	\$25,624	Continued Further Investigation and Water Supply Replacement
Lycoming	Vanderlin Cleaners	\$1,082	Continued Interim Response
Mercer	C.G. Wood	\$9,426	Continued Further Investigation
Monroe	Butz Landfill	\$100,135	Continued Operation and Maintenance of Superfund Remedial Action
Monroe	Yuhas Dump Site	\$1,463,655	Continued Interim Response
Montgomery	Alderfer Landfill	\$405	Continued Operation and Maintenance of Landfill Closure
Montgomery	Botany PCE	\$33,800	Continued Further Investigation
Montgomery	Boyertown Landfill	\$650	Continued Operation and Maintenance of Landfill Closure
Montgomery	Chemigraphics	\$10,121	Completed Groundwater Monitoring
Montgomery	Gilbertsville PCE	\$13,779	Abandonment of Monitoring Wells
Montgomery	Hoff VC Site	\$70,811	Continued Further Investigation

Hazardous Sites Cleanup Project Estimated Expenditures and Activities

Fiscal Year July 1, 2016 – June 30, 2017

County	Project Name	Estimated Expenditure	Type of Response Activity
Montgomery	Landis Creek	\$70	Continued Further Investigation
Montgomery	Lower Providence	\$9,211	Abandonment of Monitoring Wells
Montgomery	Macoby Creek	\$55,304	Continued Further Investigation and Water Supply Replacement
Montgomery	Midfield VOC	\$94,681	Continued Further Investigation and Initiated Interim Response
Montgomery	Moyer Landfill	\$157,752	Continued Operation and Maintenance of Superfund Remedial Action
Montgomery	North Penn 1	\$40,176	Continued Operation and Maintenance of Superfund Remedial Action
Montgomery	North Penn 6	\$248,658	Continued Operation and Maintenance of Superfund Remedial Action and State Superfund Contract Payment
Montgomery	Raymark OU#1&3	\$15,400	Continued Operation and Maintenance of Superfund Remedial Action
Northampton	American Fuel Harvesters	\$6,605	Continued Operation and Maintenance of Landfill
Northampton	Hellertown Mfg.	\$34,955	Continued Operation and Maintenance of Superfund Remedial Action
Northampton	Herceg Landfill	\$71,487	Continued Further Investigation
Schuylkill	Coaldale MGP	\$1,862	Continued Further Investigation
Statewide	Statewide GTAC and IRRSC Contracts	\$44,669	Program Mgt and Surety Bond Premiums for On-Call Statewide Contracts
Susquehanna	Former Erie Railyard	\$1,951,640	Continued Interim Response
Susquehanna	Laurel Lake PCE	\$13,415	Continued Further Investigation
Washington	American Zinc Chemical Site	\$279,343	Continued Further Investigation
Westmoreland	Everglade	\$22,516	Continued Water Supply Replacement
Westmoreland	Harhai Landfill	\$149	Continued Further Investigation
York	East Mt. Zion	\$16,480	Continued Operation and Maintenance of Superfund Remedial Action
		\$22,814,355	

Appendix G

Hazardous Sites Cleanup Project Activities and Expenditures, FY 2015-16

Supplement to August 2016 Hazardous Sites Cleanup Fund Annual Report

This appendix lists the specific expenditures (not including DEP personnel and operating costs) and the type of response activity performed (including whether the activity was initiated, completed or was continuing from prior fiscal years) for each project funded by DEP using the Hazardous Sites Cleanup Fund in the fiscal year July 1, 2015 – June 30, 2016.

Hazardous Sites Cleanup Project Final Expenditures

Fiscal Year July 1, 2015 – June 30, 2016

County	Site Name	Expenditure	Type of Response Activity
Adams	ADSCO	\$102,827	Continued Water Supply Replacement
Adams	J.C. Cleaners	\$31,899	Continued Operation and Maintenance of Groundwater Remediation
Allegheny	Keystone Metals Reduction	\$63,028	Continued Further Investigation
Allegheny	Mazzaro-McKees Rocks Landfill	\$78,295	Continued Further Investigation
Allegheny	McQuaid Property	\$8,765	Continued Further Investigation
Allegheny	Tri-State Petroleum Recovery	\$106,811	Continued Interim Response
Beaver	General Alloy Casting Company	\$1,238	Initiated Interim Response
Beaver	LVT-Benzol Tank Area	\$43,189	Initiated Further Investigation
Berks	Algonquin Chemical	\$11,150	Continued Operation and Maintenance of Groundwater Remediation
Berks	Berks Sand Pit	\$263,233	Continued Operation and Maintenance of Superfund Remedial Action
Berks	Crossley Farms	\$245,554	Continued Operation and Maintenance of Superfund Remedial Action and State Superfund Contract Payment
Berks	Cryo-Chem	\$45,942	Continued Operation and Maintenance of Superfund Remedial Action
Berks	Demarco Landscaping	\$33,535	Continued Further Investigation
Berks	Mt Laurel Road Battery	\$1,860	Continued Interim Response
Berks	Noll Lane Battery Casing	\$572,333	Continued Interim Response
Berks	Northern Berks County Battery Casings	\$308	Continued Interim Response
Berks	Oreville Quarry	\$504	Continued Water Supply Replacement
Berks	Topton	\$140,241	Continued Operation and Maintenance of Groundwater Remediation and Water Supply Replacement
Bradford	Canton Groundwater Investigation	\$14,950	Initiated Further Investigation
Bucks	Churchville TCE	\$352,858	Completed Further Investigation and Continued Water Supply Replacement
Bucks	Croydon TCE	\$79,636	Continued Operation and Maintenance of Superfund Remedial Action
Bucks	Easton Road PFC	\$60,627	Initiated Further Investigation
Bucks	Furlong Manufacturing	\$4,226	Continued Water Supply Replacement
Bucks	Jacksonville TCE	\$15,762	Continued Further Investigation
Bucks	Lawn Ave	\$2,996	Continued Further Investigation
Bucks	Nockamixon TCE	\$92,867	Continued Further Investigation and Water Supply Replacement
Bucks	Perkasie TCE	\$187,968	Continued Further Investigation

Hazardous Sites Cleanup Project Final Expenditures

Fiscal Year July 1, 2015 – June 30, 2016

County	Site Name	Expenditure	Type of Response Activity
Bucks & Montgomery	PFC Prompt Interim Response	\$4,147	Initiated Further Investigation
Bucks	Railroad Drive TCE	\$296,215	Continued Further Investigation
Bucks	Tamenend PCE	\$13,628	Continued Further Investigation and Water Supply Replacement
Bucks	Watson Johnson Landfill	\$264,000	State Superfund Contract Payments
Bucks	Williams Street PCE	\$506	Continued Further Investigation
Butler	Bruin Lagoon	\$65,781	Continued Operation and Maintenance of Superfund Remedial Action
Butler & Armstrong	Apple Road Disposal Area – Bear Creek	\$21,758	Continued Operation and Maintenance of Landfill Closure
Butler	Shaler JTC	\$28,915	Continued Monitoring of Contaminated Groundwater
Centre	Phillipsburg Road & Gun Club	\$23,787	Continued Further Investigation and Initiated Interim Response
Chester	AIW Frank	\$1,082	Continued Operations and Maintenance of Superfund Remedial Action
Chester	Quality Service Cleaners	\$323,622	Initiated Prompt Interim Response
Chester	Strasburg Landfill	\$112,017	Continued Operation and Maintenance of Superfund Remedial Action
Clinton	Karnish Instruments	\$795,497	Continued Interim Response
Clinton	Lock Haven Laundry	\$197,744	Continued Further Investigation
Columbia	Safety Light	\$50,000	State Superfund Contract Payments
Crawford	Shiller Site	\$2,125	Completed Further Investigation
Cumberland	Allen Road	\$24,273	Continued Further Investigation and Water Supply Replacement
Delaware	Havertown PCP	\$1,450,396	Continued Operations and Maintenance of Superfund Remedial Action
Delaware & Philadelphia	Lower Darby Creek	\$2,473	Initiated Technical Assistance Contract
Erie	Currie Landfill	\$4,727	Continued Further Investigation and Completed Remedial Action
Erie	Mill Creek Dump	\$376,068	Continued Operation and Maintenance of Superfund Remedial Action
Erie	Presque Isle Chemical	\$765,419	Continued Operation and Maintenance of Groundwater Remediation
Franklin	Tomstown TCE	\$3,046,357	Continued Further Investigation and Water Supply Replacement
Franklin	Waynesboro TCE	\$1,594	Continued Water Supply Replacement
Indiana	Tunnelton Liquids	\$5,800,799	Continued Further Investigation
Jefferson	Punxsutawney GW Contamination	\$83,713	Continued Interim Response
Lackawanna	Ivy Industrial Park	\$2,258	Continued Further Investigation

Hazardous Sites Cleanup Project Final Expenditures

Fiscal Year July 1, 2015 – June 30, 2016

County	Site Name	Expenditure	Type of Response Activity
Lackawanna	Torch Lumber Mills	\$73,574	Continued Interim Response and Further Investigation
Lancaster	Berkley Products Landfill	\$18,255	Continued Operation and Maintenance of Superfund Remedial Action
Lancaster	Berkley Products Plant	\$29,111	Continued Interim Response
Lancaster	Conestoga Pines Park	\$6,865	Continued Interim Response
Lancaster	Intercourse TCE	\$697,172	Continued Further Investigation and Water Supply Replacement
Lawrence	Remacor Site	\$627,592	Continued Further Investigation
Lehigh	High Quality Plating	\$290,048	Continued Further Investigation and Water Supply Replacement
Luzerne	Hazleton Clandestine Drug Lab	21,800	Completed Emergency Response
Lycoming	Vanderlin Cleaners	\$40,299	Initiated Interim Response
Mercer	C.G. Wood	\$23,155	Continued Further Investigation
Mercer	Greenville Reynolds Industrial Development	\$408	Completed Site Investigation
Mercer	Sharon Steel	\$511,890	State Superfund Contract Payment
Monroe	Butz Landfill	\$161,922	Continued Operations and Maintenance of Superfund Remedial Action
Monroe	Yuhaz Dump	\$1,459,567	Continued Interim Response
Montgomery	Alderfer Landfill	\$35,697	Continued Operation and Maintenance of Landfill Closure
Montgomery	Botany PCE	\$19,577	Continued Further Investigation
Montgomery	Boyertown Landfill	\$777	Continued Operation and Maintenance of Landfill Closure
Montgomery	Bridge Road TCE	\$45,681	Continued Further Investigation and Water Supply Replacement
Montgomery	Hoff VC	\$102,015	Continued Further Investigation and Completed Water Supply Replacement
Montgomery	Landis Creek	\$27,223	Continued Further Investigation
Montgomery	Macoby Creek	\$76,584	Continued Further Investigation and Water Supply Replacement
Montgomery	Midfield VOC	\$699,584	Continued Further Investigation and Initiated Water Supply Replacement
Montgomery	Moyers Landfill	\$87,465	Continued Operation and Maintenance of Superfund Remedial Action
Montgomery	North Penn 1	\$28,169	Continued Operation and Maintenance of Superfund Remedial Action
Montgomery	North Penn 6	\$188,460	Continued Operation and Maintenance of Superfund Remedial Action and State Superfund Contract Payment
Montgomery	Raymark OU#1&3	\$19,550	Continued Operation and Maintenance of Superfund Remedial Action
Montgomery	Turtle Creek	\$679	Continued Groundwater Monitoring

Hazardous Sites Cleanup Project Final Expenditures

Fiscal Year July 1, 2015 – June 30, 2016

County	Site Name	Expenditure	Type of Response Activity
Montgomery	Valley Forge Asbestos	\$610,373	Superfund Settlement Agreement Payment
Northampton	American Fuel Harvesters	\$7,434	Continued Operation and Maintenance of Landfill
Northampton	Hellertown Mfg.	\$35,346	Continued Operation and Maintenance of Superfund Remedial Action
Northampton	Herceg Landfill	\$39,766	Continued Further Investigation
Northampton	Keystone Dip & Strip	\$22,548	Initiated Further Investigation
Schuylkill	Siesko Property	\$6,100	Completed Interim Response
Statewide	Statewide GTAC and IRRSC Contracts	\$362,402	Program Mgt. and Surety Bond Premiums for On-Call Statewide Contracts
Somerset	Spangler	\$306,449	Completed Interim Response
Susquehanna	Laurel Lake PCE	\$17,786	Continued Further Investigation
Washington	American Zinc Chemical Site	\$298,133	Mixed Funding Consent Order and Agreement Payments
Westmoreland	Donora Boat Ramp Drum Removal	\$3,033	Emergency Response Removal Action
Westmoreland	Everglade	\$30,422	Continued Water Supply Replacement
Westmoreland	Harhai Landfill	\$10,473	Continued Further Investigation
York	East Mt. Zion	\$43,639	Continued Operation and Maintenance of Superfund Remedial Action
York	Emigsville TCE	\$189	Completed Further Investigation
		<u>\$23,408,716</u>	

Appendix H

State Expenditures Under the Federal Superfund Program

State Superfund Contract Status (as of 7/1/2017)

10% State Match Payment Status

		Total SSC (10% match)											
Site Name	Status	Balance	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24
ATW Frank 1&2	Active	\$0.50				\$0.50							
Butz Landfill	Active	\$20,992.00				\$20,992.00							
Crossley Farms OU1	Complete	\$0.00											
Crossley Farms OU2	Active	\$377,884.00	\$188,942.00	\$188,942.00	\$188,942.00	\$188,942.00	\$188,942.00	\$188,942.00					
Crossley Farms OU3	Active	\$8,154.00	\$7,058.00	\$12,860.00	\$12,860.00	\$8,154.00							
Drake Chemical	Complete	\$0.00											
Havertown OU2 GW	Complete	\$0.00											
Havertown OU3 DAQ	Active	\$793,800.00											
Hellertown	Complete	\$0.00											
Lower Darby Creek OU1	New	\$2,839,414.00					\$851,824.00	\$851,824.00		\$851,824.00	\$283,942.00		
North Penn 6 OU3	Active	\$90,000.00		\$112,660.00	\$112,660.00	\$127,660.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00		
Price Battery	Complete	\$0.00											
Raymark OU3	Complete	\$405,493.00											
Ryeland Road	Active	\$184,000.00				\$184,000.00							
Safety Light	Active	\$25,000.00		\$60,000.00	\$50,000.00	\$25,000.00							
Safety Light OU3	New	\$906,800.00				\$544,080.00	\$272,040.00	\$90,680.00					
Sharon Steel	Active	\$853,152.00			\$511,890.00				\$364,529.00	\$121,510.00			
Valmont TCE	Active	\$53,200.00				\$23,100.00				\$30,100.00			
WIL OU1	Active	\$880,000.00		\$264,000.00	\$264,000.00			\$264,000.00	\$88,000.00				
WIL OU2	Active	\$313,920.00				\$39,240.00	\$39,240.00	\$39,240.00	\$39,240.00	\$39,240.00	\$39,240.00	\$39,240.00	\$39,240.00

New SSCs and Amendments Anticipated (10% match obligation)

		10% Closeout		10% Closeout	
Site Name	Type	Estimate	Comments	Estimate	Comments
Drake Chemical	Close Out	N/E	Potential Overrun pending EPA contract dispute		
Hallertown	Close Out	\$ 15,194	Estimated Overrun by USEPA		
Raymark OU3	Close Out	\$ (8,318)	Estimated under-run by USEPA (Refund to State)		
Franklin Slag	New	\$ 540,000	Potential cost recovery		
North Penn 5 OU3	New	\$ 254,500			
Salford Quarry	New	\$ 600,000			
Chem Fab	New	N/E			
BoRit	New	\$ 90,000			
Watson Johnson OU1	Close Out	\$ 204,525	Estimated Overrun by USEPA		

\$ 1,695,901

N/E = no estimate

Operation and Maintenance (O&M) Obligations (100% Funded by State):

Site Name	Engineering Controls to Maintain	Institutional Controls	Estimated Annual Cost
<u>Current State O&M Obligations:</u>			
AIW Frank	Groundwater pump and treat plant, monitoring		\$266,800
Berkley Products	Landfill cap, groundwater monitoring	Site fence, Land use restrictions	\$84,800
Berks Sand Pit	Groundwater pump and treat, monitoring		\$22,700
Bruin Lagoon	Landfill cap, ground and surface water monitoring	Site fence	\$25,000
Butz Landfill	Groundwater pump and treat, monitoring	Land use restrictions	\$150,000
Crossley Farms OU1	Residential carbon maintenance	Land use restrictions	\$73,000
Crossley Farms OU3	Residential sub-slab depressurization maintenance		\$15,000
Croydon TCE	Groundwater pump and treat, monitoring		\$130,800
Cryochem OU2	Groundwater pump and treat, monitoring		\$165,000
East Mt. Zion	Landfill cap, groundwater monitoring	Site fence, Land use restrictions	\$31,000
Havertown PCP OU2&3	Groundwater pump and treat, monitoring		\$300,000
Hellertown Manufacturing	Groundwater pump and treat, monitoring		\$175,000
Lackawanna Refuse	Landfill cap, ground and surface water sampling	Site fence	\$22,500
Lehigh Electric	Ground and surface water monitoring	Site fence	\$4,725
Mill Creek Dump	Groundwater pump and treat, monitoring	Land use restrictions	\$323,300
Moyers Landfill	Landfill cap, leachate collection, groundwater monitoring	Site fence	\$217,000
North Penn 1	Groundwater pump to sewage plant, monitoring	Site fence, Land use restrictions	\$12,000
North Penn 6	Groundwater pump and treat, monitoring		\$308,200
Ryeland Road	Groundwater monitoring		
Raymark OU1, 2, & 3	Landfill cap, groundwater pump and treat, monitoring		\$36,000
Strasburg Landfill	Landfill cap, leachate treatment, residential carbon filter	Site fence	\$270,000
Wade	Soil cover, groundwater monitoring	Site fence	\$10,000
			\$2,642,825.00
<u>Future State O&M Obligations:</u>			
Crossley Farms OU2	In 2019, Groundwater pump and treat, monitoring		\$270,000
BoRit	In 2020, Landfill cap and stream bank		\$19,000
Sharon Steel	In 2021, Landfill cap, groundwater monitoring		\$67,260
Valmont TCE	In 2021, Groundwater monitoring		\$16,450
Lower Darby Creek OU1	In 2022, ET cover, creek banks, leachate collection, engineered treatment wetlands, ground water monitoring	Land use restrictions	\$164,650
			\$537,360.00

Terms, Abbreviations, Notations:

- “SSC”: “State Superfund Contract” – Document that obligates the state to meet its financial commitment under federal Superfund law. The state is obligated to fund 10 percent of the remedial action cost and fund 100 percent of the operation and maintenance costs for the sites that EPA funds. Many Superfund site cleanups are funded and performed by parties (e.g. financially viable businesses) that are responsible for the contamination. In these cases, the state is not obligated to fund 10 percent of the remedial action nor 100 percent of the operation and maintenance of the site.
- “OU”: “Operable Unit” – EPA frequently separates areas of contamination at sites into operable units. This separates phases of work and allows more immediate threats to be addressed quicker.
- “Operation and Maintenance”: Operation and Maintenance (O&M) activities include long-term obligations to maintain the protectiveness of the remedy. In cases where groundwater pump-and-treat remedial systems are installed, O&M begins 10 years after the plant is operational. Some of these obligations are perpetual in nature.
- 10 Percent Match Payment Schedules: Payment schedules are negotiated on a site-by-site basis depending on the length of time the remedial action is expected to take before completion. These payments do not include future operation and maintenance costs.
- Note 1: O&M costs identified above are EPA estimates contained in the SSC agreement. Actual yearly costs vary and are reported in Appendices E and F.
- Note 2: The 10 percent match and 100 percent O&M costs are only contract costs and do not include DEP personnel and administrative costs. DEP personnel and administrative costs for these sites and other NPL sites addressed by the responsible parties are estimated at \$1.8 million annually.

Appendix I

Cost Recovery, FY 2016-17

Cost Recovery Recorded During FY 2016-17

Site/Case Name	Amount Collected
Damascus Tube Site	\$50,158.87
DuPont New Castle Junk Yard Site	\$5,000.00
Butler Mine Tunnel Site	\$9,183.77
Dutch Maid Cleaners	\$10,360.00
Former Bendix Flight Systems	\$20,695.41
Gettysburg Foundry	\$1,678.05
Heleva Landfill NPL Site	\$5563.72
Ivy Industrial Park Site	\$51,181.04
Lewis Run Municipal Site	\$7,393.39
Millcreek Dump Site	\$160,892.96
Plumstead Fire Site	\$70,000.00
Remacor	\$525.00
Rodale Manufacturing NPL Site	\$14,191.69
Seneca Drum Site	\$3,000.00
Turtle Creek Site	\$10,000.00
Tysons Dump NPL Site	\$9,204.79
Estes Express Line	\$331.10
Tonolli NPL Site	\$5564.60
DSMOA-Federal Facility Reimbursement	\$211,583.00
PPL	\$5,830.65
UGI	\$30,841.99
Pipeline & Utility	\$10,234.79
Total FY 2016-17 Cost Recovery Revenue	\$693,713.00

Appendix J

Violations Cited and Penalties Collected under HSCA, FY 2016-17

Name	Violation Code	Violation Description	Enforcement Code	Penalty Assessed	Penalty Collected
A & D ENV SVC (SC) LLC	6020.903	Transportation and management fees not paid	NOV		
AEG ENV PROD & SVC INC	6020.903	Transportation and management fees not paid	NOV		
AES ASSET ACQUISITION CORP	6020.903	Transportation and management fees not paid	NOV		
ALLIED ENVIRONMENTAL SERVICES OF NY LLC	6020.903	Transportation and management fees not paid	NOV		
ALLSTATE ORC INC	6020.903	Transportation and management fees not paid	NOV		
BERNER TRUCKING INC	6020.903	Transportation and management fees not paid	NOV		
BERNER TRUCKING INC	6020.903	Transportation and management fees not paid	NOV		
BRENNTAG NORTHEAST INC	6020.903	Transportation and management fees not paid	NOV		
BUFFALO FUEL CORP	6020.903	Transportation and management fees not paid	NOV		
BUFFALO FUEL CORP	6020.903	Transportation and management fees not paid	NOPA		
BUFFALO FUEL CORP	6020.903	Transportation and management fees not paid	NOV		
BUFFALO FUEL CORP	6020.903	Transportation and management fees not paid	NOPA		
BUFFALO FUEL CORP	6020.903	Transportation and management fees not paid	NOPA		
BUFFALO FUEL CORP	6020.903	Transportation and management fees not paid	NOV		
BUFFALO FUEL CORP	6020.903	Transportation and management fees not paid	NOV		
BUFFALO FUEL CORP	6020.903	Transportation and management fees not paid	NOV		
BUFFALO FUEL CORP	6020.903	Transportation and management fees not paid	NOV		
CAMPBELL TRANSP CO INC	6020.903	Transportation and management fees not paid	NOV		
CARE ENV CORP	6020.903	Transportation and management fees not paid	NOV		
CETCO LLC	6020.903	Transportation and management fees not paid	NOV		
CHEM ANALYTICS INC	6020.903	Transportation and management fees not paid	NOV		
COVANTA ENVIRONMENTAL SOLUTIONS CARRIERS II LLC	6020.903	Transportation and management fees not paid	NOV		
DUPRE LOGISTICS LLC	6020.903	Transportation and management fees not paid	NOV		
EARTH SMART ENVIRONMENTAL SOLUTIONS, LLC	6020.903	Transportation and management fees not paid	NOV		
ELK TRANSP INC	6020.903	Transportation and management fees not paid	NOV		
ELLIOTT TRUCK LINE INC	6020.903	Transportation and management fees not paid	NOV		
ENERGY TRANSP LLC	6020.903	Transportation and management fees not paid	NOV		
ENV MGMT SPECIALISTS INC	6020.903	Transportation and management fees not paid	NOV		
ENV SPECIALISTS INC	6020.903	Transportation and management fees not paid	NOV		
ENV TRANSP GROUP INC	6020.903	Transportation and management fees not paid	NOV		

Name	Violation Code	Violation Description	Enforcement Code	Penalty Assessed	Penalty Collected
FECC INC	6020.903	Transportation and management fees not paid	NOV		
HEPACO LLC	6020.903	Transportation and management fees not paid	NOV		
HEPACO LLC	6020.903	Transportation and management fees not paid	NOV		
HEPACO LLC	6020.903	Transportation and management fees not paid	NOV		
IMS ENV SVC LLC	6020.903	Transportation and management fees not paid	NOV		
INTERSTATE VENTURES INC	6020.903	Transportation and management fees not paid	NOV		
MANAGE DIRECT SYS LLC	6020.903	Transportation and management fees not paid	NOV		
METRO ENV CONTR CORP	6020.903	Transportation and management fees not paid	NOV		
MORAN ENV RECOVERY LLC	6020.903	Transportation and management fees not paid	NOV		
MTN ENERGY SVC INC	6020.903	Transportation and management fees not paid	NOV		
NY ENV TECH INC	6020.903	Transportation and management fees not paid	NOV		
NY ENV TECH INC	6020.903	Transportation and management fees not paid	NOV		
OP TECH ENV SVC INC	6020.903	Transportation and management fees not paid	NOV		
PLAINFIELD MOTOR SVC	6020.903	Transportation and management fees not paid	NOPA		
PLAINFIELD MOTOR SVC	6020.903	Transportation and management fees not paid	CPA	\$1,000	
PLAINFIELD MOTOR SVC	6020.903	Transportation and management fees not paid	NOV		
PLAINFIELD MOTOR SVC	6020.903	Transportation and management fees not paid	NOPA		
PLAINFIELD MOTOR SVC	6020.903	Transportation and management fees not paid	NOV		
PLAINFIELD MOTOR SVC	6020.903	Transportation and management fees not paid	CPA	\$1,000	
PSC IND OUTSOURCING LP	6020.903	Transportation and management fees not paid	NOV		
PSC IND OUTSOURCING LP	6020.903	Transportation and management fees not paid	NOV		
PSC IND OUTSOURCING LP	6020.903	Transportation and management fees not paid	NOV		
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	NOV		
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	NOPA		
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	CPA	\$2,500	\$2,500
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	NOV		
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	NOPA		
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	CPA	\$2,500	
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	NOPA		
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	CPA	\$2,500	

Name	Violation Code	Violation Description	Enforcement Code	Penalty Assessed	Penalty Collected
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	NOV		
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	CPA	\$2,500	
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	NOV		
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	NOV		
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	CPA	\$2,500	
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	NOV		
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	NOV		
SELECT TRANSP INC	6020.903	Transportation and management fees not paid	NOV		
SOUTH PENN RESOURCES LLC	6020.903	Transportation and management fees not paid	NOV		
STAT INC	6020.903	Transportation and management fees not paid	NOV		
STERICYCLE SPECIALTY WASTE SOLUTIONS INC	6020.903	Transportation and management fees not paid	NOV		
SWS ENVIRONMENTAL SERVICES	6020.903	Transportation and management fees not paid	NOV		
TRANSERVICE LOGISTICS INC	6020.903	Transportation and management fees not paid	NOV		
VEOLIA ES IND SVC INC	6020.903	Transportation and management fees not paid	NOV		

Name - Name of entity cited.

Violation Code - Citation of the section of the statute cited; 6020 is the Purdon's Pennsylvania Statutes' citation for the Hazardous Sites Cleanup Act; 903 would indicate section 903.

Enforcement Code - The type of action DEP initiated.

NOV - Notice of Violation (first level of enforcement action)

NOPA - Notice of Penalty Assessment (second level of enforcement action)

CPA - Civil Penalty Assessment

Pennsylvania's Hazardous Sites Cleanup Program

Department of Environmental Protection

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For more information,
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