Appendix A

DEP Investigations, Cleanups and Monitoring Funded under HSCA

Sites are listed alphabetically by County.

Site Name	Region	County	House	Senate	Threat	Status of Work
ADSCO	SC	Adams	91	33	Groundwater is contaminated with toxic volatile organic compounds (VOCs) from landfill leachate. Private water supply wells are impacted.	DEP is maintaining the residential water supply treatment system, the landfill cap, methane control systems, and the leachate collection and treatment system. An NPDES permit was obtained in June 2020 for the Site. Currently, iron and manganese appear to be the only two constituents that exceed the Statewide health standard. 1,4- Dioxane has been added to the list of constituents to be monitored.
Gettysburg Foundry	SC	Adams	91	33	Soil and groundwater are contaminated with salt and metals from the operation of this closed metal smelting facility.	DEP has completed remedial actions at the Site and will periodically monitor groundwater to determine whether contamination levels are declining naturally. DEP recorded land use restrictions on some areas of the property with Adams County in 2013. There has been some interest to use the property for a regional sewage treatment plant or a business park.
JC Cleaners	SC	Adams	91	33	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs), including tetrachloroethylene (PCE). The contamination threatens a public water supply well.	The pump and treat system remains down since the complete failure in August 2016. DEP performed additional sub-slab investigation and indoor air quality monitoring of properties surrounding the JC Cleaners facility during December of 2019 and February 2020. DEP is currently pursuing alternatives, including but not limited to, vapor mitigation. The groundwater investigation continues.
Keystone Metals Reduction	SW	Allegheny	33	38	Soils have been contaminated with uranium ore tailings from past radium recovery activities dating back to 1921.	The onsite business owner has not agreed to be temporarily relocated. DEP has decided to re-evaluate potential remedial options that could still be protective of human health and the environment. DEP has completed a re-evaluation using a numeric model to determine health-based risk at the Site. Based on the results of this re-evaluation, DEP is considering options that would not require demolition of buildings and relocation of the business.
Mazzaro-McKees Rocks Landfill	SW	Allegheny	45	42	Soils and groundwater have been contaminated with toxic volatile organic compounds (VOCs), metals, polychlorinated biphenyls (PCBs) and	DEP evaluated remedial alternatives, obtained county health department approval, and prepared an Analysis of Alternatives and Engineering Design to address additional control of site-derived gases. A lateral trench system design was

					polycyclic aromatic hydrocarbons (PAHs).	chosen to address gas migration as a supplement to the existing gas venting system. Construction of the remediation system was authorized.
Natrona Heights Gas Odors	SW	Allegheny	33	38	Soils and groundwater are contaminated with toxic volatile organic compounds (VOCs).	DEP investigations into soil and groundwater contamination began in February 2019. Six monitoring wells have been installed and the first round of quarterly sampling revealed VOC-impacted groundwater in the uppermost detected aquifer. Ground penetrating radar (GPR) surveys revealed two anomalies near the area of the historic service station onsite. DEP will continue to investigate to identify the source, determine the extent of contamination, and establish a cleanup approach.
CBS-Vanport	SW	Beaver	15	47	Soils and groundwater are contaminated with trichloroethylene (TCE). The contamination threatens the Vanport Township Municipal Authority public water system.	The Responsible Party stopped paying for the operation of air stripping towers at the Vanport Township Municipal Authority's (VTMA) water treatment plant where TCE contamination still exists in the aquifer. DEP began investigation at the Site. Soil and surface water sampling have been conducted and groundwater monitoring wells have been installed in the quarry where sampling was completed in 2019. There are a few remaining tasks to finish the site investigation.
Kuhn's Landfill	SW	Beaver	14	47	Exposed unknown industrial waste and abandoned drums are present at this former landfill.	DEP issued a Statement of Decision in June 2015. The chosen remedy included covering the exposed waste and areas that exceeded direct contact standards, and removal and disposal of the gel-type waste. Remediation at the site is complete. Environmental covenants and cost recovery are now under consideration.
LTV Benzol Tank Area	SW	Beaver	16	46	Groundwater and soils have been contaminated by toxic volatile organic compounds (VOCs).	Site Investigation activities began in 2015. High levels of benzene in wells and soil vapor monitoring points prompted investigation of the nearby residential neighborhood. Due to access issues with the City of Aliquippa, the additional soil and vapor sampling has not been conducted.

Pool Doctor/Beaver Alkali	SW	Beaver	16	47	Soils are contaminated with a variety of extremely hazardous substances, oxidizers, and strong acids and bases.	DEP initiated a prompt interim response on July 1, 2019, to remove and properly dispose of chemicals at the Site. On July 12, 2019, a chemical reaction occurred and caused a fire and subsequent release of low-level chlorine vapors. Once the fire was extinguished and the risk of additional reactions was minimized, DEP moved forward with proper chemical removal and disposal. Soil investigation and remediation is planned for 2020.
Algonquin Chemical	SC	Berks	124	29	Groundwater and soils have been contaminated by toxic volatile organic compounds (VOCs).	In-situ treatment of the groundwater was initiated in December 2003. Groundwater monitoring is on-going. A review of historic lab reports indicated a slight increase in the residual VOCs in some wells and stabilization in others. An addendum work plan was prepared to sample the wells on a semi-annual basis for an additional two-year period followed with a data trend analysis to determine if VOC concentrations are continuing to increase or stabilize. Institutional Controls will be used to prevent the use of groundwater onsite and on the adjacent vacant property to the west the Site.
DeMarco Landscaping	SC	Berks	130	44	Groundwater is contaminated with tetrachloroethylene (PCE). Several residential wells are impacted.	DEP conducted a prompt interim response to address residential well contamination. All affected residential water supply wells were equipped with Point of Entry Treatment Systems (POETS). A geo-probe soil sampling event was conducted in August 2019; however, the attempt failed to locate the source of the PCE. Planning of the waterline extension project that will provide public water to the properties with PCE contaminated wells is on-going. The POETS will then be dismantled.
Mt. Laurel Road Battery	SC	Berks	5	11	Soil is contaminated with lead from battery casings.	DEP completed response actions at the Site, including removal of 3,102 tons of contaminated soil. Environmental covenants are being placed on properties where contamination remains above the cleanup standard.
Noll Lane Battery Casing	SC	Berks	5	11	Soil is contaminated with lead from battery casings.	DEP conducted an interim response at the Site. Contaminated soil excavation was completed in October 2017. In December 2018, additional work was conducted to reinforce the drainage

						swale. As of May 2020, 9 of the 12 required environmental covenants have been recorded on properties where contamination exists above the cleanup standard.
Northern Berks County Battery Casings	SC	Berks	124	29	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. Work was completed in September 2020 and included a combination of soil excavation and soil capping to eliminate threats from the contamination. Further work is required to fix battery casing exposure due to a transformer installation.
Topton Site	SC	Berks	134, 187	11, 24	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Private water supply wells are impacted.	DEP is maintaining residential groundwater treatment systems and performing groundwater remediation through permanganate injections. Post injection groundwater samples were collected. Various lab results have shown stable, reduced, and increased VOC concentrations; therefore, there is little evidence that the former injections substantially reduced the source area. Future remedial efforts will be determined after an evaluation of the most recent sample data and historical overview of the groundwater impact.
Sayre TCE and PCE	NC	Bradford	110	23	Soil and groundwater are contaminated with trichloroethylene (TCE) and tetrachloroethylene (PCE).	Investigations of groundwater and soil contamination have been ongoing by the property owners and DEP since the 1990s. These investigations have shown that there may be multiple sources of the TCE/PCE contamination. The area is served by public water. Vapor intrusion is a potential threat to residents living above the plume. The current property owner has been installing vapor mitigation systems in several homes within the plume as a preventative measure. DEP installed shallow groundwater monitoring wells and soil gas monitoring points. Two rounds of groundwater and soil gas sampling were conducted in 2019 and results are currently being evaluated.

Easton Road PFC	SE	Bucks	143	10	Groundwater is contaminated with per- and polyfluoroalkyl substances (PFAS).	In April 2020, DEP signed the Statement of Decision for the Site. The remedy selected is the installation and maintenance of whole-house filtration systems combined with restrictions on the use of groundwater to address private residential water supplies with PFAS concentrations exceeding EPA's Health Advisory Level. DEP considers this type of response to be an interim response as additional actions may be needed to achieve a complete and final cleanup for the site. Installation of new systems and inspection of existing treatment systems are expected to begin summer 2020. Source investigation is ongoing.
Furlong and Vandor Manufacturing	SE	Bucks	29, 143	10	Groundwater and soils are contaminated with trichloroethylene (TCE), tetrachloroethene (PCE), 1,1-dichloroethylene (1,1-DCE), and 1,4-dioxane. Private water supply wells are impacted.	In November 2017, DEP signed a grant agreement with Doylestown Township to fund a public waterline extension serving the property owners affected by the TCE contamination at the Furlong and Vandor Manufacturing Sites. The waterline was completed in Fall 2018. DEP sampled the monitoring wells in May 2019. Results showed most wells had concentrations of TCE, PCE, 1,1-DCE, and 1,4-dioxane below DEP's respective medium specific concentrations for those compounds. DEP plans to decommission the monitoring wells in Summer 2020.
Jacksonville TCE	SE	Bucks	178	6	The groundwater is contaminated with toxic volatile organic compounds (VOCs). Private water supplies are impacted.	DEP installed a waterline to 107 affected residences in 2013. Investigations continue to identify the source of the contamination and 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 Environmental Remediation Standards Act (Act 2). In 2019, PFAS was sampled in select monitoring wells and was not detected in any samples above the USEPA Health Advisory Level. The next round of sampling is scheduled for Summer 2020.

Nockamixon TCE	SE	Bucks	143	24	The groundwater is contaminated with toxic volatile organic compounds (VOCs) and 1,4-dioxane. Private water supplies are impacted.	Environmental Covenants have been recorded at properties where private water filter systems were installed. In 2018, DEP installed vapor intrusion (VI) mitigation systems at two homes. Additional soil gas and indoor air sampling performed in 2019 and 2020 did not reveal additional VI concerns. 1,4-dioxane was detected in two monitoring wells and in three residential wells. DEP has expanded the residential sampling and is currently evaluating the performance of the existing treatment systems for addressing 1,4-dioxane. A large area of soil contamination has been identified and characterized, which contains the highest concentrations of TCE. DEP plans to further identify any data gaps and evaluate options for addressing the contaminant source area.
Perkasie Area TCE	SE	Bucks	145	10	Groundwater in the area is contaminated with trichloroethylene (TCE) from multiple sources. Vapor intrusion is the main pathway of concern.	In October 2019, DEP completed a Conceptual Site Model, which summarizes past investigations and evaluates the contributions of the four known TCE source areas to the regional groundwater contamination. In May 2018, DEP issued an Administrative Order to the new owner of the property, which was appealed. In June 2020, DEP executed the Consent Order and Agreement (CO&A) to address the contamination. DEP continues to negotiate a CO&A with the previous owner to settle the response costs.
Railroad Drive TCE	SE	Bucks	29, 178	6	Groundwater is contaminated with trichloroethylene (TCE).	Through a grant from DEP, the Township installed a public waterline to affected residences in June 2017. The highest overall concentrations of TCE were found in wells serving four businesses along Railroad Drive. DEP sent information request letters to 7 properties near Railroad Drive where the highest concentrations of TCE were detected and is evaluating the information to determine potential next steps. In early 2019, select monitoring wells (MW) were sampled for PFAS and no detections were found above the USEPA Health Advisory Level. DEP plans to complete another round of MW sampling in summer 2020.

Ridge Run PFAS	SE	Bucks	145	10	Groundwater, surface water, soil, and sediment are contaminated with per- and polyfluoroalkyl substances (PFAS).	In 2016, two North Penn Water Authority wells were found to be contaminated with PFAS above the USEPA Health Advisory Level (HAL). 15 residential properties are also impacted above the HAL. The Statement of Decision (SOD) was signed in April 2019 selecting the installation of treatment systems for the residential systems combined with restrictions on the use of groundwater. DEP installed monitoring wells in Summer 2019 and is planning additional delineation of the PFAS in the groundwater in Summer 2020. DEP is currently installing treatment systems on the affected properties.
Sellersville Landfill	SE	Bucks	145	10	Soils and groundwater are contaminated with radium 226 and trichloroethylene (TCE).	DEP conducted an interim response action in 1997 to address radium soil contamination. TCE is now the remaining primary contaminant of concern at the Site. The responsible party and the Bucks County Redevelopment Authority (BCRDA) will be taking the Site through Act 2. BCRDA submitted a cleanup plan, which calls for targeted removal of contaminated soils and continued groundwater monitoring. Cleanup is being funded through an Industrial Sites Reuse Program (ISRP) grant. DEP is overseeing the work.
Tamenend PCE	SE	Bucks	143	10	Groundwater is contaminated with toxic volatile organic compounds (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. DEP completed the residential well sampling program in 2018 and monitoring wells were abandoned in October 2019. No further work is planned.
Bear Creek Chemical Site	NW	Butler, Armstrong	11, 63, 64	41	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.	Operation and maintenance (O&M) activities occurred at the Kelly Farm Disposal area in the Summer of 2018. O&M activities were completed at the Apple Road Site in the Summer of 2019. Cost recovery efforts and settlement proceedings have been completed for both Kelly Farm and Spitzer Pines sites through the approval and issuance of an Administrative Order and a Consent Order and Agreement (CO&A). Site inspections are scheduled for the summer of 2020.

Franklin Glass	NW	Butler	11	21	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 vegetation and erosion issues.
Shaler JTC	NW	Butler	64	41	Soils and groundwater are contaminated with toxic volatile organic compounds (VOCs) and metals.	DEP's contractor has been conducting O&M activities in accordance with approved work plans for both the Shaler JTC and the adjacent Bruin Lagoon Site. The work plan calls for the review and evaluation of existing information regarding the Site; development and implementation of a post-closure monitoring plan; and assisting DEP in evaluating the effectiveness of the remedial action. The work plan was implemented in November 2019. The Annual Post Closure Monitoring Report was finalized in May 2020.
AZR-ATSDR Investigation	NE	Carbon	122	14	Soil is contaminated with metals. Lead in play areas is the main concern.	Soil sampling for metals occurred in 2018 and three samples had exceedances of the Statewide health standards. Soil sampling at a daycare and park occurred in Summer 2019 and lead concentrations did not exceed EPA's lead soil concentrations in play areas. DEP, EPA, ATSDR, and PADOH discussed the results and agreed that the risk at the park is low and the daycare can minimize the risk to prevent direct contact by adding soil, sod, mulch, etc.
Quehanna Wild Area Waste Dump Sites	NC	Cameron, Clearfield, Elk	67, 73, 75	35, 25	Low-level radiological wastes were disposed of in the Wild Area.	DEP installed monitoring wells, is investigating groundwater contamination and is evaluating the data.
Phillipsburg Rod and Gun Club (PRGC)	NC	Centre	77	34	Groundwater, surface water and soils are contaminated with toxic metals.	PRGC and DCNR have reached a legal agreement, with the PRGC agreeing to vacate their lease. Now that a legal agreement has been reached, the remediation of the property can be re-evaluated. Since it has been a number of years since the previous cost estimate/feasibility study was conducted, the region is proposing that a new analysis of alternatives and cost estimate be completed. Originally the Secretaries of DCNR and DEP agreed to split remediation costs 50/50, so both agencies may need to approve any remediation budget.

Quality Service Cleaners	SE	Chester	13	19	Groundwater and soils are contaminated with toxic volatile organic compounds (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, and completed soil excavation in 2016. DEP is currently conducting quarterly groundwater monitoring but plans to turn the monitoring wells over to the property owner. During the winter of 2017 and 2018, DEP collected indoor air samples from 3 nearby homes and no properties were determined to be impacted by vapor intrusion (VI). An Environmental Covenant may be necessary for the former dry cleaner property to prevent groundwater use and to address the VI pathway when redevelopment occurs.
Lock Haven Laundry	NC	Clinton	76	25	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs).	In 2018, monitoring wells with co-located soil vapor points were installed and sampled to further assess groundwater characterization and vapor intrusion exposures. Sampling results indicated detections of VOCs so, in early 2019, additional monitoring wells with co-located soil vapor points were installed. DEP conducted two rounds of indoor air sampling as adjacent residential properties in 2019 and no exposure was documented. No further work is planned.
Berwick Seep	NC	Columbia	109	27	Petroleum products seep into the Susquehanna River.	Rainbow sheens and bubbles of an oily product with a strong petroleum odor have been reported to be coming from the bank of the Susquehanna River adjacent to South Oak Street. In August 2019, DEP began an investigation that will include installation of monitoring wells in and around the seep area to gauge the size and scope of the contamination and attempt to isolate the source.
Schiller Site	NW	Crawford	6	50	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs) and metals.	DEP previously completed soil and groundwater remedial actions and continues to monitor treatment systems installed on private residential wells. The property was purchased, and an agreement was signed to settle DEP's lien on the property. DEP continues to monitor the effectiveness of remedial actions. An environmental covenant was placed on the property with land use and groundwater use restrictions.

Allen Road	SC	Cumberland	193, 199	31, 30	Groundwater is contaminated with toxic volatile organic compounds (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 monitoring wells except one that remains for the property owner. Environmental covenants will be placed on the properties. No further work is planned.
Ridgway Borough Municipal Landfill	NW	Elk	75	25	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs) and metals.	Since 2018, meetings have been ongoing with representatives from the Responsible Parties (RPs) to discuss necessary remedial actions to close out the landfill. A contractor for the RPs presented a general closure plan for the landfill by construction of a landfill cap. DEP agreed with the plan and requested the RPs move forward with the plans. DEP is finalizing a Consent Order and Agreement with the Borough and Authority for the remedial cleanup, landfill closure, and future operations and maintenance.
Corry Avenue A Landfill	NW	Erie	4	50	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs), metals, arsenic and benzo(a)pyrene and have potentially migrated to adjacent wetlands, and two nearby creeks.	The Site was used as a disposal facility for industrial, municipal and demolition wastes in the 1940s and 50s. Over one hundred (100) deteriorating 55-gallon drums, exposed wastes and scrap metal were observed. DEP completed Site investigation work in 2019, which included: installing monitoring wells; sampling of groundwater, surface water and sediment; and digging test pits to identify the types, level and extent of contamination on-Site. DEP is currently reviewing the Site Investigation report to determine if additional investigation or cleanup action is necessary.
Currie Landfill	NW	Erie	3	49	Soils, groundwater and surface water are contaminated with toxic volatile organic compounds (VOCs).	DEP completed a remedial action at the Site. Consolidation of wastes and cleanup of the stream were completed in October 2013. The Site was turned over to the Mill Creek 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. DEP is currently conducting annual groundwater sampling on the Site.

Filmore	NW	Erie	3	49	Soils, groundwater and surface water are contaminated with metals.	DEP completed Site cleanup. Contaminated soil was excavated, isolated, and covered with two feet of clean soil and vegetation. DEP installed one additional monitoring well and completed groundwater sampling in the Summer of 2017. Property maintenance and groundwater monitoring is ongoing.
Lake City VOC	NW	Erie	17	49	Groundwater is contaminated with trichloroethylene (TCE). Public water supply wells are potentially threatened.	DEP is conducting an investigation of the Site. Findings from the investigation indicate the TCE plume continues to expand vertically and horizontally to the northwest. DEP plans to perform a vapor intrusion study within two neighborhoods on a portion of the Site and conduct a round of groundwater monitoring in 2020.
Presque Isle Chemical	NW	Erie	3	50	Soils and groundwater are contaminated with toxic volatile organic compounds (VOCs) and polychlorinated biphenyls (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 and treated water is sampled twice per month. Monitoring wells are sampled annually, and results are compiled into a report.
Vallimont	NW	Erie	4	49	Soil, groundwater, and surface water are contaminated with toxic metals from a disposal area.	An erosion ravine was used as a disposal area that contains about 15 feet of waste. In 2018, DEP collected surface water and sediment samples from an unnamed tributary and seep at the base of the ravine. Soil samples were also collected. Numerous toxic metals were identified and exceeded the Statewide health standards. DEP finalized a Response Justification and intends to complete a work plan for further site investigation and removal action.
Tomstown TCE	SC	Franklin	90	33	Groundwater is contaminated with trichloroethylene (TCE). 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 implemented the monitoring plan to track the groundwater contamination plume in the summer of 2018. Monitoring wells and private wells were abandoned in May 2019. Further investigation and operation and maintenance is planned.

Waynesboro TCE	SC	Franklin	90	33	The groundwater and soils are contaminated with trichloroethylene (TCE). Private water supplies wells are impacted.	The waterline extension has been completed and all affected residences are connected to the borough's public water supply. Washington Township notified DEP that all work performed under the grant agreement was completed as of August 2018. An additional investigation will be conducted to determine the current and future impact to human health from contamination at the Site.
Punxsutawney Groundwater	NW	Jefferson	66	25	Soils and groundwater are contaminated with volatile organic compounds (VOCs), toxic metals and cyanide from prior electroplating activities.	Due to the ongoing presence of the contaminated plume, DEP conducted two vapor intrusion studies in June 2018 and January 2019. The results narrowed down the area of investigation and five homes participated in an indoor air quality (IAQ) study in January and March of 2019. All samples came back below DEP's IAQ screening limits. DEP continues to monitor the groundwater.
Marjol Battery	NE	Lackawanna	112	22	Site 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. Wastes were consolidated and capped on-site. DEP conducted the annual cap inspection in November 2019 and found the Site in good condition. Operation and maintenance activities are on-going. Based on the results of sampling, the wells will be decommissioned during 2020.
Torch Lumber Mill	NE	Lackawanna	114	22	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. Sampling occurred in 2017 and May 2019. DEP also began attempts for cost recovery from the Responsible Party.
Winship Road	NE	Lackawanna	118	22	Groundwater is contaminated with toxic volatile organic compounds (VOCs) from illegal waste disposal.	DEP completed response actions, which included removal of wastes and contaminated soil and installation of residential water supply treatment systems. DEP is currently monitoring and maintaining the residential treatment systems. Environmental covenants are being considered for contaminated properties.

Berkley Products Plant	SC	Lancaster	43	36	Groundwater and soils are contaminated with toxic volatile organic compounds (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.	In 2018, DEP performed the initial round of full-scale in-situ chemical oxidation (ISCO) groundwater injections. Favorable VOC reduction results were achieved. Additional groundwater sampling was conducted in winter 2019 and the second full-scale ISCO groundwater injection occurred in May 2019. Post-injection groundwater sampling is being conducted to determine resulting VOC levels.
Conestoga Pines Park	SC	Lancaster	96	13	Groundwater and surface water are contaminated with toxic volatile organic compounds (VOCs).	A VOC aeration system was installed in the stream in April 2014. The Site operation and maintenance inspections occur three times per year.
Intercourse TCE Site	SC	Lancaster	100	13	Groundwater and soils are contaminated with trichloroethylene (TCE). 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 completed in January 2018. The second contract for the treatment plant, water tower, and service connections is underway. The treatment plant has been constructed, the water tower has been installed and the service connections are expected to continue through July 2020. In August 2019, a Comprehensive Operation Permit was issued from DEP's Safe Drinking Water Program.
Raymark Lower Mill Landfill	SC	Lancaster	37	36	Waste contains toxic metals and asbestos.	DEP completed waste removal and grading and capping of the landfill in 2005. DEP continues to perform maintenance of the landfill cap, including mowing and inspection for ruts. During the winter months, work was conducted to prevent groundhogs from returning.
Remacor	NW	Lawrence	10	47	Site is contaminated with flammable materials, toxic metals and radiological materials.	DEP completed demolition and waste sorting activities in September 2019. Contamination persists in the soil and groundwater across the Site. Also, some radioactive materials remain buried. DEP has requested EPA's assistance to complete subsurface remediation utilizing dedicated funding collected through cost recovery settlements with Site responsible parties. EPA

						secured Site access and plans to initiate work in Summer 2020.
High Quality Plating	NE	Lehigh	131	16	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Private water supply wells are impacted.	DEP is monitoring and maintaining the residential water supply treatment systems and is monitoring the effects of the injections and recirculation on groundwater quality. DEP signed a Prospective Purchaser Agreement for the property next to the Site and an environmental covenant was recorded.
Lower Broadway	NE	Luzerne	119	14	Groundwater and soils are contaminated with metals, PCBs, toxic volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs).	A scope of work for an expanded Phase 2 sampling was completed and the associated activities were conducted in Fall 2019. This work included; surface soil sampling, vertical soil sampling at monitoring well locations, groundwater sampling, and surface water sampling. Preliminary data indicated further characterization is necessary.
Mid Atlantic Coast Delivery	NE	Luzerne	119	14	Soils and groundwater are contaminated with metals, toxic volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs).	DEP sampled the groundwater and soils and found metals in the soils above cleanup levels. A review of Luzerne County's GIS files took place and revealed the property was sold in October 2017. The owner has a mailing address in Syria which has caused a delay in making contact. Sampling and further characterization of the Site is planned to occur in the Summer or Fall of 2020.
TP Corporation	NE	Luzerne	118	22	Site contains wastes from an abandoned paint/coating facility.	In July 2018, the following work was completed: decommissioning of the power lines, removal of the thermal oxidizer and supports, abandonment of monitoring wells, removal of asphalt, excavation, and sampling of the excavated soil. Removal of the contaminated soil was completed in November 2018. The site was backfilled and graded with clean fill and gravel. DEP filed a HSCA 512 Order in March 2019 with Luzerne County for the Site instead of an environmental covenant. The property was purchased in April 2019. DEP will meet with the new owner about

						the HSCA 512 Order. No further work is planned.
Valley View Wood Products	NE	Luzerne	116	27	Abandoned demolition waste contains lead. Soils are contaminated with lead.	DEP is developing an Analysis of Alternatives. There have been inquiries about purchasing the property and remediating the Site. Potential responsible parties are being investigated.
Rose Valley Lake TCE	NC	Lycoming	84	23	Groundwater is contaminated with trichloroethylene (TCE).	Water supply treatment systems were installed on six homes in May 2018 and the drinking water is regularly sampled to ensure effectiveness of the systems in removing TCE. Monitoring wells were installed and regularly sampled to characterize the groundwater plume. Indoor air was evaluated in two homes and one home exceeded the Statewide health standard, so a treatment system was installed.
C.G. Wood	NW	Mercer	17	50	Groundwater is contaminated with toxic volatile organic compounds (VOCs).	DEP completed facility demolition and contaminated soil removal. In 2005, DEP entered into a consent order & agreement with the current owner that places use limitations on the Site. Groundwater, surface water and sediment contamination remain at the site. DEP has been performing operation and maintenance activities since 2012.
Yuhas Dump	NE	Monroe	176	40	There are abandoned drums and containers with unknown contents on-Site. Soils, surface water and potentially groundwater are contaminated with toxic metals and volatile organic compounds (VOCs). Waste materials are encroaching on the stream.	DEP's interim response actions at the Site are complete. Dry Saw Mill Run is now protected from further degradation, the Site is fully vegetated and stable, and the Army Corp of Engineers' stream permit is satisfied. DEP will continue Site inspections and periodic operation and maintenance until the property owner takes over the responsibilities. Environmental covenants will be implemented to protect the remedy.

Alderfer Landfill	SE	Montgomery	53	12	The Site is contaminated with toxic volatile organic compounds (VOCs), including radiological materials.	In 1993, DEP initiated response actions which included the installation of a soil cap, installation of stone-filled wire gabions along the side of the landfill that abutted the creek, and the creation of two on-Site vaults for the relocation of radioactive thorium-232. In July 2019, DEP and the former owner's estate executed a consent order and agreement (CO&A) under which the owner agreed to assume future O&M responsibilities. The CO&A also created an environmental covenant to prevent disturbance to the landfill cap, and a mortgage lien that encompassed DEP's past response costs. No further work is planned.
Boyertown Landfill	SE	Montgomery	147	24	Methane from the abandoned landfill threatens to migrate off-Site and impact nearby residences. Per- and polyfluoroalkyl substances (PFAS) was detected in the landfill leachate.	DEP is maintaining the methane extraction system installed in October 2003. In Spring 2019, PFAS was detected in the landfill leachate above EPA's Health Advisory Level (HAL). Nearby public and private water supply wells were sampled and PFAS was below the HAL. In March 2020, DEP received odor complaints from nearby residential properties. DEP plans to perform air sampling to investigate in Summer 2020.
Cook Technologies	SE	Montgomery	147	24	Groundwater is contaminated with toxic volatile organic compounds (VOCs), including tetrachloroethylene (PCE). Private water supply wells are impacted.	Twenty private water wells have substantial detections of PCE, warranting continued carbon filter treatment. The responsible party (RP) is sampling those homes, performing filter maintenance as needed, and sampling the 5 monitoring wells at the Site to track PCE levels. These responsibilities are outlined in a consent agreement, which was finalized in May 2017. DEP is overseeing the RP's work.
Hoff VC	SE	Montgomery	147	24	Groundwater is contaminated with toxic volatile organic compounds (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 contaminated soil and the waste from a concrete pit. In 2018, DEP initiated an in-situ remediation pilot study to address remaining groundwater contamination, which included the installation of five monitoring/injection wells near the concrete pit.
Landis Creek	SE	Montgomery	146	44	Groundwater is contaminated with toxic volatile organic compounds	In 2016, DEP installed carbon filtration systems at six homes affected by contamination. Systems have since been turned over to property owners.

					(VOCs). Private water supply wells are impacted.	Environmental covenants have been placed on those properties. The responsible party (RP) is currently performing a remedial investigation under Act 2. A consent order and agreement with the RP is in negotiations.
Macoby Creek	SE	Montgomery	131	24	Groundwater is contaminated with toxic volatile organic compounds (VOCs). A private water supply well is impacted.	DEP demolished the on-site building and removed contaminated soils in 2008. DEP also installed a carbon filtration system on the one residential property found to be contaminated. DEP is monitoring and maintaining the treatment system. In March 2020, DEP completed a comprehensive round of monitoring well sampling at the Site, and the results from this are pending. In general, groundwater contaminant concentrations have been trending downward as a result of the injections. DEP is remediating the remaining elevated concentrations via in-situ bioremediation slow-release canisters.
Zieglerville TCE	SE	Montgomery	147	24	Groundwater and soils are contaminated with trichloroethylene (TCE). The contaminated groundwater threatens a public supply well.	DEP performed two interim response actions in the mid-1990s to extend a waterline to affected homes and to clean up the soil hotspot area. DEP is monitoring the remaining groundwater contamination and, based on the decreasing trends, plans to close out the Site activities. Monitoring wells will be abandoned in Summer 2020.
American Fuel Harvesters	NE	Northampton	137	40	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. Monitoring well sampling was conducted in October 2018. Based upon these results, which were below standards, and the trends in the wells, DEP abandoned the monitoring wells in January 2019. Vegetation control was performed in June and July 2019.
Herceg Landfill	NE	Northampton	138	40	Groundwater is contaminated with volatile organic compounds (VOCs) and inorganic metals. A private water supply well is impacted.	DEP is monitoring the impacted residential wells and maintaining the water treatment systems installed in 2005 and 2009. DEP is operating the leachate treatment system and conducting annual sampling and operation and maintenance activities. Treatment for the high ammonia discharge began in May 2020.

Port Richmond Gate	SE	Philadelphia	177	5	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 at 50 properties. During the Fall of 2017, a consent agreement was finalized to settle past response costs with a developer. In the spring of 2018, a separate settlement was reached with another developer. In December 2018 and January 2019, DEP issued HSCA 512 orders to address four properties where owners refused to sign environmental covenants.
Crown Industries	NE	Pike	139	20	Groundwater and soils at this Site have been contaminated with toxic volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs) and dioxins. Private water supplies were impacted.	DEP performed response actions to provide potable water to affected residences and excavate wastes and debris from the Site. Negotiations with the quarry owner to take over operation and maintenance responsibilities are on-going. The quarry owner conducted a full round of sampling in January 2018 and the results indicated that well sampling needs to continue. Well sampling is scheduled for the Summer of 2020.
Ashland Metals	NE	Schuylkill	123	29	Soils are contaminated with lead and toxic metals from a defunct battery and metal recycling operation.	DEP has completed remedial actions at the Site and continues to monitor the Site and maintain the landfill cap. A scope of work for operation and maintenance (O&M) activities was submitted in May 2018. O&M is on hold pending potential purchase of this Site and the Giordano Waste Materials Site.
Coaldale MGP	NE	Schuylkill	124	29	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. DEP is reviewing the updated Site characterization report submitted in November 2018 and evaluating next steps based upon the risk analysis. An Analysis of Alternatives was drafted and discussions on permitting for in-stream work is needed.
Frackville Area Site	NE	Schuylkill	123	29	Soils and groundwater are contaminated with per- and polyfluoroalkyl substances (PFAS) and toxic volatile organic compounds (VOCs), including tetrachloroethylene (PCE). Private and public water supplies were impacted.	DEP and EPA met with the fireman's association in June 2019 regarding performing an investigation. DEP sampled residential private wells in March 2020 for VOCs and PFAS. However, not all the samples were processed due to the COVID-19 pandemic. Re-sampling is planned for Summer 2020.

Giordano Waste Materials	NE	Schuylkill	123	29	Soils are contaminated with metals.	DEP installed a soil cap to prevent exposure and is monitoring and maintaining the cap. Semi-annual inspections of the cap are conducted. A scope of work for operation and maintenance (O&M) activities was submitted in May 2018. O&M is on hold pending potential purchase of this Site and the Ashland Metals Site.
Schuylkill Haven MGP	NE	Schuylkill	125	29	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 prepared 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. A field inspection occurred in September 2019.
Former Erie Railyard	NE	Susquehanna	111	20	Groundwater and soils are contaminated with coal gasification waste substances.	The Site was selected as a Brownfields pilot project by a joint DEP/DCNR/DCED taskforce. The Borough accepted bids from contractors and work began on construction of the fence, walking trail, and lighting for the future Ira Reynold Riverfront Park. DEP's contractor is handling the contaminated soil for all three projects.
Laurel Lake PCE	NE	Susquehanna	111	23	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Private water supply wells are impacted.	Water treatment systems were installed in the affected homes and sampling continues. Site characterization activities were initiated in October 2019 including soil borings and monitoring well installations. The goal is to determine the extent and identify the source area of the contamination and delineate the threat to human health and environment.
Keystone Castings	NW	Venango	64	21	Groundwater and soils are contaminated with metals.	A foundry was operated on Site in the 1970s. Land uses prior are unknown. In September 2019 DEP began Site investigation activities. The March 2020 report determined that Site soil and groundwater metal concentrations are above respective Statewide health standards across the Site at varying depths. A second round of groundwater sampling followed by remedial action recommendations is anticipated for Summer 2020.

Laing Landfill	NW	Venango	64	21	Soils are contaminated with metals, semi-volatiles (SVOCS), polycyclic aromatic hydrocarbons (PAHs), PCBs, and pesticides. Surface water is contaminated with metals and endosulfan insecticide.	The landfill Site operations began in 1975 and were ceased in 1987 due to violations leading to the Solid Waste Permit being suspended. DEP conducted an interim response in 1996 to address drums and bulk asbestos at the Site and monitoring wells were installed. A Site inspection completed in May 2018 documented that drums and piles of wastes, including metals and tires, still exist on the Site. Based on the Site Investigation completed by DEP in Fall 2019, limited impacts were identified. A second groundwater sampling event is planned for Summer 2020 to confirm the lack of impacts to the groundwater.
Venango County Park	NW	Venango	64	21	Soils are contaminated with lead, arsenic, chromium, cadmium, cobalt, vanadium.	The Site is an inactive, unlined landfill that is heavily vegetated with unrestricted access. In 1995, DEP sampled soil at the Site and found lead, arsenic, chromium, cadmium, cobalt, and vanadium above Statewide health standards. DEP finalized a Response Justification Document and has been working with a contractor to complete a work plan for further Site investigation.
American Zinc Company Site	SW	Washington	46	46	Surface piles, soil, surface water, and groundwater are contaminated with lead, zinc, cadmium, copper, antimony, arsenic, and other metals from waste generated by a former zinc smelter.	DEP signed two mixed-funding consent agreements with the responsible party (RP). DEP agreed to pay for 40% of the Site investigation, cleanup plan, and remediation costs. The RP began site remediation; however, the COVID-19 pandemic has caused delays. DEP's Clean Water Program is working with the RP to obtain NPDES permits for two major industrial discharges from the Site.
Lakeside PCE	NE	Wayne	111	20	Groundwater is contaminated with toxic volatile organic compounds (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 operation and maintenance of their treatment systems. DEP pre-treatment sampling events continue to be below the Statewide health Standard If the trend continues, sampling will be discontinued.
Harhai Landfill	SW	Westmoreland	59	39	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 has approved the Final Remedial Investigation Report. The onsite groundwater monitoring wells were abandoned in June 2018. No further work is planned.

Deardorff Drive/Ridge Road	SC	York	92	48	Groundwater is contaminated with toxic volatile organic compounds (VOCs), including tetrachloroethylene (PCE). 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 conducted every two years to monitor the plumes. A site sampling event was completed in February 2018 and it was determined that the site groundwater and surface water PCE/VOC contamination levels are essentially stable. There are several EPA-installed wells on-site with the potential to be abandoned.
Newberry Township PFC	SC	York	92	48	Groundwater and surface water are contaminated with per- and polyfluoroalkyl substances (PFAS).	A Newberry Township resident, receiving public water from Suez Water, had a private lab test their water for PFAS. The result was greater than EPA's Health Advisory Levels (HAL) of 70 ppt. In April 2019, DEP and Suez sampled nine supply wells and two of the wells exceeded the HAL. Suez Water addressed this problem in May 2019 by installing two carbon filtration systems. In 2019 and 2020, DEP sampled a spring, residential wells, monitoring wells, surface water and streams. All had detectable levels of PFAS. Detailed sampling of several creeks should locate the source(s) entering the surface water. Additional groundwater sampling will focus on private wells that are in the proximity of stream stretches that exceed the HAL. Based upon the collected data, the construction of monitoring wells to better delineate soil/groundwater contamination will be evaluated.
Industrial Solvents and Chemical Company	SC	York	92	48	Groundwater and soils are contaminated with volatile organic compounds (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. Deed notifications have been recorded with the York County Recorder of Deeds. DEP will carry out an overall assessment of the Site to determine if the site meets Act 2 cleanup standards and whether additional remedial action is necessary.

Key:	
Region	SE - Southeast Region
	SC - Southcentral Region
	SW - Southwest Region
	NE - Northeast Region
	NC - Northcentral Region
	NW - Northwest Region