

Appendix D

Pennsylvania Sites on the Federal National Priorities List

Sites are listed alphabetically by County.

This 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 at epa.gov.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Hunterstown Road	Responsible Party (RP)	SC	Adams	91	33	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Soils contain toxic metals and asbestos.	The soil remedy is complete and operating as designed. Groundwater remediation is ongoing. Historical groundwater quality data is being analyzed to determine its effectiveness. A new monitoring well was drilled in 2019. In 2020, sampling was reduced/eliminated at select wells for VOCs and 1,4-dioxane.
Keystone Landfill	Responsible Party (RP)	SC	Adams	91	33	Groundwater and nearby surface water are contaminated with toxic volatile organic compounds (VOCs) and heavy metals.	The landfill cap and gas extraction system have been constructed. Groundwater extraction is ongoing. The off-site wells are showing declining VOC concentrations, which suggest containment of the impacted groundwater plume. No off-site residential wells are impacted.
Shriver's Corner	Responsible Party (RP)	SC	Adams	91	33	Groundwater is contaminated with toxic volatile organic compounds (VOCs) and has affected residential wells in the area.	Remedial actions are complete. A new uncontaminated water system was constructed to replace affected residential wells. The RPs continue to operate the groundwater remediation system and the residential water supply system. EPA conducted the third five-year review in 2018. In July 2018, the Explanation of Significant Differences was finalized to place institutional controls on all areas where the groundwater contamination plume has extended.
Westinghouse Elevator	Responsible Party (RP)	SC	Adams	91	33	Groundwater and surface water are contaminated with trichloroethylene (TCE).	In 2018, RPs submitted a scope of work for a pilot study on in-situ chemical oxidation injections in the source area. In February 2018, the RPs submitted an addendum to the 2015 Vapor Intrusion Report, finding that, although TCE was still detected in the indoor air, it was at lower levels and risks were within acceptable ranges.
Breslube Penn	Responsible Party (RP)	SW	Allegheny	44	37	Groundwater and soils are contaminated with toxic volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs). No residential wells have been impacted.	Construction is complete. After reviewing results of the in-situ pilot study, DEP and EPA have requested an enhanced bioattenuation work plan be prepared by the RP for long term execution of the in-situ treatment program. Additionally, a long-term groundwater monitoring plan will be prepared. Site related COCs were not detected in the April and June 2019 groundwater samples, showing no vapor intrusion pathway to homes.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Lindane Dump	Responsible Party (RP)	SW	Allegheny	33	38	Soil and groundwater are contaminated with pesticides.	The RPs installed a cap over the landfill and are operating a leachate treatment system. Monitoring of the Site continues, and annual reports are submitted to EPA and DEP. The fourth, five-year review was conducted in April 2018 and no issues of concern were found.
Ohio River Park	Responsible Party (RP)	SW	Allegheny	45	42	Soils in the 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 EPA and DEP. Two anomalies were discovered in the gas pipeline that runs under the capped area. The pipeline company submitted appropriate work plans and were supervised by EPA and DEP during the repairs.
PICCO Resin Disposal	Responsible Party (RP)	SW	Allegheny	39	37	Groundwater and surface water are contaminated with toxic volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs).	The Site is capped and leachate water is collected and pre-treated before discharge to the local sewage treatment plant. Recent work includes studies to support the design and construction of a secondary interceptor trench to capture groundwater downgradient of the existing trench system, per the April 2019 Interceptor Trench Predesign Assessment Work Plan. Field work for this work began in May 2019.
Craig Farm Drum Dump	Responsible Party (RP)	NW	Armstrong	63	41	Site is contaminated with toxic volatile organic compounds (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 the necessary operation and maintenance activities. EPA finalized the fifth five-year review in March 2019.
Bally Groundwater	Responsible Party (RP)	SC	Berks	130	24	Groundwater is contaminated with toxic volatile organic compounds (VOCs) and threatens area drinking water supply.	Groundwater is being remediated through pump and treat by the RPs. A new, uncontaminated public well and water distribution system have been developed. Another public water supply well will be brought online as a backup for the municipal water supply. Vapor intrusion has been evaluated and one mitigation unit was installed and is operating properly.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Berks Landfill	Responsible Party (RP)	SC	Berks	129	29	Groundwater is contaminated with toxic volatile organic compounds (VOCs).	Leachate from the landfill is collected and sent to the local wastewater treatment plant. The RP is maintaining the landfill cap and leachate collection system. Joint periodic EPA-DEP site inspections are conducted. The fourth five-year review Site inspection was held in September 2019 and the report is being finalized.
Berks Sand Pit	State Funded O&M	SC	Berks	134	24	Groundwater and the Middle Branch of the Perkiomen Creek are contaminated with toxic volatile organic compounds (VOCs). Residential wells are regularly monitored to ensure pollutants remain within safe drinking water levels.	In 2011, it was determined that the groundwater remediation system showed signs of decreased efficiency and was taken off-line due to damage incurred after several lightning strikes. DEP has since conducted pilot studies of in-situ bioremediation/in-situ chemical reduction, which is a newer technology that injects reducing agents to help change the contaminants into less toxic forms and bioremediation that uses naturally-occurring bacteria to break down contaminants. Concentrations of the groundwater contamination are declining, the plume is contained to the Site property and reducing in size, there is no current exposure pathways to contamination, and institutional controls are in place. Additional injections may be needed.
Brown's Battery Breaking	Responsible Party (RP)	SC	Berks	124	29	Groundwater is contaminated with lead.	Contaminated soils have been remediated. Groundwater remediation is ongoing. In March 2020, EPA approved future groundwater remediation and monitoring plan proposed by the RP. Also, in March 2020, the RP performed an alkalinity injection and a round of groundwater monitoring.
Crossley Farms	EPA Funded and State O&M	SC	Berks	134	24	Toxic volatile organic compounds (VOCs) have been detected in on-Site groundwater and residential wells down gradient of the Site.	EPA is operating the groundwater pump and treat system and associated groundwater extraction wells. DEP conducts annual sampling of private water supply wells with or without treatment systems. DEP also performs operations and maintenance on the residential well treatment systems and vapor intrusion systems.

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Cryo-Chem	State Funded O&M	SC	Berks	130	24	Groundwater is contaminated with toxic volatile organic compounds (VOCs).	DEP has taken over operation and maintenance of the groundwater remediation system. Exposure pathways that could result in unacceptable risks are being controlled. The groundwater remedy is effective in reducing contaminant concentrations and all groundwater with concentrations in excess of cleanup levels is hydraulically contained. The groundwater remedy is making demonstrable progress toward achieving cleanup levels; however, contaminants remain in groundwater at concentrations above cleanup levels.
Douglassville Disposal	EPA Funded and Responsible Party (RP)	SC	Berks	130	44	Groundwater, surface water and soils are contaminated with toxic volatile organic compounds (VOCs), heavy metals and polychlorinated biphenyls (PCBs).	EPA conducted a five-year review meeting in June 2018 and the landfill cap appeared to be in good shape. Light non-aqueous phase liquid continues to accumulate in a monitoring well cluster and EPA is considering options for remedial efforts at this cluster. Groundwater quality and ecological risks related to discharge of water to the Schuylkill River will be performed.
Price Battery	EPA Funded and Responsible Party (RP)	SC	Berks	124	29	Plant soils contain high levels of lead. Residential properties are contaminated with lead from historic air deposition.	The Site has been broken down into several operable units (OUs) to facilitate remediation. Soil and stream sediment remediation were completed in April 2019 for OU2. A draft Feasibility Study for the remediation of the contaminated sediments in Mill Creek and Kaercher Creek is being revised for OU3.
Hamburg Kaercher Creek	EPA Funded and Responsible Party (RP)	SC	Berks	124	29	Soils, groundwater, and the creek are contaminated with lead.	A battery manufacturing facility operated in Hamburg Borough from 1920 to the mid-1990s. Battery casings were reused as ground fill material and deposited throughout the Hamburg area. EPA and the responsible party completed a Removal Action in 2004. However, in 2017, significant erosion on the banks of Kaercher Creek were discovered. Further work is planned for Fall 2020.
Ryeland Road Arsenic	EPA Funded	SC	Berks	129	29	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. Monitoring of the site groundwater is ongoing. EPA is evaluating potential remedies for groundwater at the Site and drafting a Feasibility Study.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Delta Quarries Landfill	Responsible Party (RP)	SC	Blair	80, 79	30	Groundwater and surface water are impacted by toxic volatile organic compounds (VOCs), including tetrachloroethylene (PCE), and heavy metals.	The groundwater vertical delineation investigation was finalized, and EPA and DEP held a meeting to review the work. The work performed included the installation of three new wells, groundwater pump tests, and groundwater capture zone analyses. It was determined that the adjacent property has VOCs in the groundwater that do not match those of the landfill's groundwater plume. Furthermore, the adjacent property is known to have been used as a dump site. Groundwater pump and treatment is continuing at the site.
Bell Landfill	Responsible Party (RP)	NC	Bradford	110	23	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. The 2018 five-year review was completed with no significant problems or deficiencies. During the 2018/19 winter, trucking of leachate occurred due to unusually heavy precipitation.
Boarhead Farms	Responsible Party (RP)	SE	Bucks	143	10	Groundwater is contaminated with toxic volatile organic compounds (VOCs) and 1,4-dioxane. Wetlands, ponds and a small unnamed tributary to the Delaware River are affected by contaminated groundwater.	The RPs are maintaining the granular activated carbon treatment systems installed on three residential water supplies. In 2017, DEP entered into an agreement with the RPs to resolve the group's liability for past DEP costs incurred at the Site and reserved the right to request reimbursement from the RPs for future costs. In 2020, The RP group installed several monitoring wells for evaluating contaminant plume capture of the overall system at EPA's request.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Chem Fab	EPA Funded	SE	Bucks	143	10	Groundwater is contaminated with toxic volatile organic compounds (VOCs) and inorganic compounds. Contaminated groundwater threatens to impact nearby public water supply wells.	In 2017, EPA issued a Record of Decision for a groundwater extraction and treatment system (GWETS) as an interim remedy for Operable Unit 2. The design of the GWETS was completed in 2019, and EPA installed the extraction wells in Spring 2020. In May 2020, EPA shared the Remedial Investigation report, which also includes the Baseline Human Health Risk Assessment and Ecological Risk Assessment, for DEP review and comment. In Spring 2020, EPA conducted PFAS sampling of Cooks Run. Results are pending.
Croydon TCE	State Funded O&M	SE	Bucks	141,140	6	Groundwater and eight residential wells are contaminated with trichloroethylene (TCE). Several VOCs were detected in the surface water samples from Hog Run Creek, a tributary of the Delaware River.	DEP implemented a pilot study of in-situ bioremediation in Winter 2017/18. The pilot study was successful in reducing the concentrations of VOCs at the Site. DEP currently performs semi-annual sampling of the monitoring wells to assess the long-term impact of the injections on the VOC concentrations in groundwater. The pump and treat system is no longer needed.
Dublin TCE	Responsible Party (RP)	SE	Bucks	144	10	Groundwater is contaminated with trichloroethylene (TCE). Private water supplies were impacted.	A public waterline was extended to affected residences. In 2016 EPA approved a Technical Memo, which concluded that there was no risk from vapor intrusion and that no further action was required. In January 2020, the RP collected groundwater samples from four residential wells near the Site; all were non-detect for Site contaminants of concern. In February 2020, the RP proposed a pump and treat design which was evaluated, and all agreed that the RP should move forward to construct a new deep aquifer well as soon as they can obtain access from the property owner.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Fischer and Porter	Responsible Party (RP)	SE	Bucks	29	12	Groundwater is contaminated with toxic volatile organic compounds (VOCs) and has affected public water supply wells in the area.	Construction is complete. The RP continues to operate a groundwater pump and treat system. DEP oversees the NPDES discharge from that treatment system. In August 2019, the EPA decommissioned 18 monitoring wells no longer considered useful for groundwater monitoring. A five-year review was completed in 2020, and found the remedy is operating properly.
Naval Air Development Center – Warminster	Responsible Party (RP)	SE	Bucks	29	12	Groundwater is contaminated with toxic volatile organic compounds (VOCs) and per- and polyfluoroalkyl substances (PFAS). Soils and sediments are contaminated with heavy metals.	As of January 2020, 363 private drinking water wells have been sampled by the Navy for PFAS. 73 were found to exceed the EPA Health Advisory Level (>70 ppt). The Navy connected 44 homes to the public water supply system. The Navy has initiated a Remedial Investigation (RI) to further investigate the extent of PFAS contamination at the Site. The draft Phase I RI report is anticipated in Summer 2020. Further investigation, known as the Phase II RI, was initiated in 2019 and is focused on potential source areas. The Navy is planning on optimizing the existing ground water extraction treatment system for PFAS removal by converting a monitoring well with high concentrations of PFAS into a new extraction well.
Revere Chemical	Responsible Party (RP)	SE	Bucks	143	24	Site soils were contaminated with heavy metals, toxic volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs). Shallow groundwater is contaminated with toxic VOCs.	Remedial action for soil contamination has been completed. The RP group continues long term monitoring of the Site. EPA sampled for PFAS as part of the 2016 five-year review and the results came back non-detect. Groundwater monitoring will occur in 2020 before the next five-year review that will be conducted in 2021.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Watson Johnson Landfill	EPA Funded	SE	Bucks	145	24	Landfill soils contain toxic volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals. Groundwater, surface water and sediments are impacted. Groundwater is contaminated with per- and polyfluoroalkyl substances (PFAS).	Public water was extended to affected residences. Capping of the landfill was completed in February 2019 and will prevent direct contact and infiltration of precipitation through the landfill. EPA will monitor revegetation and handle operation and maintenance (O&M) of the landfill until the Site is operational and functional. DEP will then perform O&M. Institutional controls will be implemented through environmental covenants. EPA sampled in August 2019 and detected PFAS above Health Advisory Levels (HALs) in monitoring wells associated with the Site. EPA subsequently conducted home well sampling and Municipal Wells for PFAS in the area. The results for all potable wells were below HALs.
Bruin Lagoon	State Funded O&M	NW	Butler	64	41	Lagoons were used for the disposal of sulfonated mineral oil production wastes, motor oil reclamation wastes, coal fines and other sludge residues.	Construction is complete. The Site has been deleted from the NPL. 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 in May 2020. EPA's sixth five-year review in September 2019 determined that the remedy remains protective. EPA and DEP are working on a revised operation & maintenance (O&M) plan and a Superfund State Contract (SSC) Amendment to establish O&M activities for the Site after the expiration of the current SSC.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Palmerton Zinc	Responsible Party (RP)	NE	Carbon	122	14	Metals impacted the Aquashicola Creek, Lehigh River, and large areas of Blue Mountain and Stoney Ridge. Soil and groundwater are contaminated with zinc and lead.	A zinc smelter and related industrial processes operated at the Site from the 1890s to the 1980s. The Site is divided into four operable units (OUs). Blue Mountain (OU1) soil samples are planned for Summer 2020 in the area of the smelters. Surface water was diverted around the Cinder Bank (OU2) waste pile and semi-annual inspections occur. Excavation of contaminated residential soil (OU3) in the surrounding areas was completed in 2005. An in-situ treatment cell was constructed in 2011 to address the surface water and groundwater impacts and ecological risk (OU4). Wetland inspections and maintenance are ongoing. New groundwater monitoring wells were installed in April 2020.
Tonolli Corporation	Responsible Party (RP)	NE	Carbon	122	14	Site soils, groundwater and the Nesquehoning Creek are contaminated with lead, cadmium and other heavy metals.	The RP is conducting operation and maintenance of the landfill cap and semi-annual groundwater monitoring. The RPs continue to monitor the increased rate of leachate recovery from the west cell of the closed landfill. The RP submitted the Groundwater Monitoring Report in January 2020.
Centre County Kepone	Responsible Party (RP)	NC	Centre	171	34	Soil, sediment, groundwater and surface water are contaminated with toxic volatile organic compounds (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. The RP and EPA continue to discuss the cleanup goals for the Site. A builder is interested in redeveloping the remediated parcel. The Site would require institutional and engineering controls. The RP submitted a work plan for sampling site soils with the goal of ultimately shutting down the soil vapor extraction system.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
AIW Frank/Mid-County Mustang	State Funded O&M	SE	Chester	167	19	Site groundwater is contaminated with toxic volatile organic compounds (VOCs). Contaminated groundwater has spread beyond the property boundaries, affecting private drinking water supply wells.	In 2018, a new Superfund State Contract to outline DEP's operation and maintenance obligations under the revised remedy was finalized. EPA is funding the initial design, injections and groundwater monitoring associated with the In-Situ Chemical Oxidation (ISCO) and bioremediation. In 2019, EPA completed the initial design, installation of 6 injection wells and the first round of ISCO injections at the Site. In 2019, an environmental covenant was placed on an adjacent property where groundwater contamination is present.
Blosenski Landfill	Responsible Party (RP)	SE	Chester	26	44	Soil, groundwater and surface water contain toxic volatile organic compounds (VOCs) and heavy metals.	A public waterline was installed to provide clean drinking water for residents. In early 2020, the RP group submitted a Focused Feasibility Study to support a Record of Decision (ROD) amendment that would replace the current pump and treat remedy with enhanced in-situ bioremediation. EPA estimates that the ROD Amendment will be completed in August 2021. Institutional controls on use of the property that were incorporated by the 2013 Explanation of Significant Differences were implemented through a Notice of Contamination that was filed in September 2017. The 2018 five-year review concluded that remedial actions at remain protective.
Foote Mineral	Responsible Party (RP)	SE	Chester	167	19	Contaminants of concern include lithium, boron, chromium and toxic volatile organic compounds (VOCs) and are in the soil and groundwater. Some on-Site soil is slightly radioactive.	A public waterline was installed to serve impacted homes. In-situ solidification of the quarry waste and on-site disposal is complete. Long term monitoring of the impacted groundwater shows decreasing concentrations, indicating that the remedy is working. The RP continues to collect annual groundwater and surface water samples. The property owner is exploring redevelopment options for the Site. The September 2019 five-year review concluded that the remedy continues to be protective of human health.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Kimberton TCE	Responsible Party (RP)	SE	Chester	155	44	Groundwater is contaminated with trichloroethylene (TCE). A tributary to French Creek was also contaminated with volatile organic compounds (VOCs).	The RP continues to operate a groundwater treatment system. A 2017 Explanation of Significant Differences modified institutional controls in the Record of Decision for operable unit 2 (OU2) related to vapor intrusion (VI) mitigation and to maintain protection of the soil caps and protection of components of the groundwater extraction and treatment system. VI mitigation systems have been installed at two locations. In April 2019, EPA issued the sixth five-year review, which concluded that the remedy continues to be protective and the plume is contained.
Malvern TCE	Responsible Party (RP)	SE	Chester	167	19	Groundwater and soil are contaminated with trichloroethylene (TCE). Contaminated groundwater has affected area residential wells.	Construction of the waterline extension was completed in 2000. Accelerated in-situ bioremediation (AISB) has been operating at the Site since 2010. The RPs modified the AISB system to achieve better contact with contaminants. The RPs also installed additional monitoring wells to better characterize the sources and extent of the groundwater contamination. A draft focused Remedial Investigation and updated Conceptual Site Model is currently under review and a Focused Feasibility Study of technologies for addressing the source is under preparation. The next five-year review is planned for later this year.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Old Wilmington Road	EPA Funded	SE	Chester	26	44	Groundwater is contaminated with toxic volatile organic compounds (VOCs) and manganese. Private drinking wells have been impacted.	The monitoring wells are sampled on a regular basis. EPA completed the sampling of local potable water wells and results found unsafe levels of manganese. EPA has been supplying bottled water to the impacted homes with the intention of installing filtration systems to address the issue. EPA is currently conducting a remedial investigation and feasibility study (RI/FS) to determine the nature and extent of contamination and evaluate alternatives to clean up the Site. EPA continues to evaluate residential and monitoring well data, vapor intrusion results, and other site-related information. EPA expects to issue a proposed remedial action plan to present the preferred cleanup alternative for public comment in late 2020 or early 2021.
Paoli Rail Yard	Responsible Party (RP)	SE	Chester	157, 167	19, 26	Soil, groundwater and surface water sediments are contaminated with polychlorinated biphenyls (PCBs).	Regularly scheduled monitoring and sampling of both the rail yard and non-rail yard properties continue as part of the operation and maintenance (O&M) activities. Stream monitoring and sediment removal occurs quarterly as part of routine O&M activities. The hotspot removal event, a one-time, month-long, event to address contaminated soil discovered during the latest quarterly monitoring, commenced in May 2020. The RPs continue to analyze fish tissue, soil samples, and groundwater for PCBs during the semi-annual monitoring events.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Strasburg Landfill	State Funded O&M	SE	Chester	158	19, 9	Site was contaminated with toxic volatile organic compounds (VOCs) and metals.	Under the Consent Order & Agreement, the current property owner continues to conduct routine Operation & Maintenance (O&M) tasks at the Site. In March 2019, EPA issued the Final Closeout Report for the Site. The Site was removed from the NPL list in September 2019. Groundwater monitoring is required under the O&M responsibilities of DEP every five years before each five-year review (FYR) and was completed in November 2019. During this sampling event, EPA also conducted split sampling for 1,4-dioxane to evaluate its presence at the Site. Results of the sampling indicated that 1,4-dioxane was above the regional screening level established by EPA in one monitoring point. The next FYR for the Site is currently under review and is expected to be completed by September 2020.
Welsh Road	EPA Funded and Responsible Party (RP)	SE	Chester	26	44	Soils and groundwater are contaminated with toxic volatile organic compounds (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 RP Group conducts operation and maintenance activities, including groundwater sampling and landfill gas monitoring. Institutional controls in the form of deed notices were placed on all properties that comprise the Site to restrict future uses that could potentially affect performance of the remedies in place and any exposure risks to groundwater.
William Dick Lagoons	Responsible Party (RP)	SE	Chester	26	44	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs). Soils also contain pesticides.	A waterline was extended to affected residences. A bedrock groundwater extraction and treatment system (GWETS) is in operation but does not capture the entire plume. The RP is currently investigating the off-Site contamination plume that is not being addressed by the GWETS. The final remedy for bedrock groundwater is in progress. In March 2020, DEP reviewed A Remedial Technologies Screening Memorandum. EPA estimates that the Feasibility Study and subsequent Record of Decision will be completed between December 2021 and February 2022.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Jackson Ceramix	EPA Funded	NC/NW	Clearfield, Jefferson	75, 66	25	Wetland soils are contaminated with lead sludge waste.	EPA conducted further Site Investigation and a Feasibility Study to identify a cleanup remedy. The final Remedial Investigation Report was submitted in December 2017. The revised Treatability Study Report for Operable Unit 2 was submitted in March 2019.
Drake Chemical	EPA Funded and Responsible Party (RP)	NC	Clinton	76	25	Soils and groundwater are contaminated with toxic volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs).	EPA completed remediation of contaminated soil (incineration). The RP continues to monitor and treat groundwater contamination. The five-year review was drafted in April 2018 and was reviewed by all parties. Future sampling for per- and polyfluoroalkyl substances (PFAS) is being considered.
Safety Light	EPA Funded	NC	Columbia	109	27	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 cleanup of the buildings in 2015. In 2018, the soils in and around the former canals and onsite dumps were excavated and delineated. EPA has completed the removal action in the West Lagoon, East Dump, and East Lagoon. Further excavation will be needed around the former canal area. Groundwater is still being evaluated.
Saegertown Industrial Site Area	Responsible Party (RP)	NW	Crawford	6	50	Groundwater is contaminated with toxic volatile organic compounds (VOCs) from previous industrial activities.	In 2019, the RP began a five-year renovation of the facility. The RP requested and received permission from EPA and DEP to continue the abandonment of monitoring wells that were no longer needed.
Naval Support Activity Site (Navy Ship Parts Control Center)	Responsible Party (RP) - (US Military)	SC	Cumberland	87	31	Groundwater is contaminated with heavy metals and polycyclic aromatic hydrocarbons (PAHs). Soils contain heavy metals and toxic volatile organic compounds (VOCs) and sediments contain metals and polychlorinated biphenyls (PCBs).	The Site has been broken down into several operable units (OUs) to facilitate remediation. Removal and remedial actions are ongoing. In April 2020, the annual groundwater sampling report concluded that the contaminant plume is stable (OU1 and OU4). Site-wide PFAS investigation is underway.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Middletown Airfield	Responsible Party (RP)	SC	Dauphin	106	48	Groundwater and soils are contaminated with toxic volatile organic compounds (VOCs). Perfluorooctanesulfonic acid (PFOS) contamination is in the public water supply.	Current Site conditions remain protective of human health. The RP continues to monitor the groundwater and surface water.
Havertown PCP Site	State Funded O&M	SE	Delaware	166, 163	17	Area groundwater is contaminated with pentachlorophenol. Non-aqueous phase compounds and oil are present and discharge into Naylor's Run.	DEP took over operation and maintenance of the groundwater extraction and treatment system (GWETS) in June 2013. In January/February 2019, DEP took samples, which found contamination in several residential backyards and residential basements. EPA's Removal Program took over the investigation and is working to address the residential property groundwater issues. An extension of an existing shallow groundwater collection trench, interior waterproofing of the residential properties, and an expansion of the GWETS is expected to be completed in 2020. EPA commenced their sixth five-year review for the Site in September 2019; it is expected to be completed in Fall 2020.
Lower Darby Creek	EPA Funded and Responsible Party (RP)	SE	Delaware, Philadelphia	185, 191	1, 8	Area groundwater and seeps are contaminated with metals, volatile organic compounds (VOCs), 1-4 dioxane, polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), and lead. Contamination is seeping into Darby Creek.	This Site is broken down into two Landfills/Operable Units (OUs). Clearview Landfill (OU1): In 2017, EPA initiated the remediation of the remaining contaminated residential properties. All on-site businesses have been relocated. The remedial design for the OU1 remedy was completed in March 2019. The construction of the Evapotranspiration Cover commenced in Spring 2019 and is expected to be completed in 2023. Folcroft Landfill (OU2): The Remedial Investigation was completed in May 2018. The RP group is currently conducting treatability studies of the groundwater contamination and is expected to complete the Feasibility Study in 2020.

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Metro Container	EPA Funded and Responsible Party (RP)	SE	Delaware	159	9	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), metals and polycyclic aromatic hydrocarbons (PAHs).	The RPs continue the Focused Remedial Investigation (FRI) field work. The RPs submitted findings of their first phase characterization in 2019, which includes monitoring well installation/sampling, and surface water and sediment sampling in nearby Stoney Creek. The RPs are working on their second phase FRI activities.
Wade Dump	State Funded O&M	SE	Delaware	159	9	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.	The Site has been deleted from the NPL. DEP is monitoring contaminated groundwater and maintaining the soil cap. In January 2018, EPA consented to DEP's request to abandon all wells on Site. Work is scheduled to be completed in Summer 2020.
Lord-Shope Landfill	Responsible Party (RP)	NW	Erie	17	49	Groundwater is contaminated with toxic volatile organic compounds (VOCs) and heavy metals.	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. EPA completed the latest five-year review report in September 2019. Exceedances were detected in monthly sampling of plant discharge water and the plant was shut down for cleaning of the air stripper. Following the cleanup, all subsequent sampling has been below the discharge limits.
Mill Creek Dump Site	State Funded O&M	NW	Erie	3	49	Groundwater is highly contaminated with toxic volatile organic compounds (VOCs).	DEP is operating the groundwater treatment system. The Township's Mill Creek Golf & Learning Center reconfiguration project is partially complete and anticipates opening in Summer 2020. The combined influent to the plant increased from 5 to 20 gallons per minute due to a redesign of the sump in 2019 due to high iron well water content.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Letterkenny Property Disposal Office Area	Responsible Party (RP) - (US Military)	SC	Franklin	89, 90	33	Groundwater is contaminated with toxic volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs). Site soils contain toxic VOCs and heavy metals. Residential wells could be threatened.	The Site has been broken down into several operable units (OUs) to facilitate remediation. OU2 includes evaluating natural attenuation parameters to verify that the plume is not migrating off-site. The annual report was conducted in August 2019. OU4 includes soil, sediment, and groundwater associated with the oil burn pit. Groundwater sampling was conducted in March 2020 and the Army expanded the treatment grid of electrodes based on the additional characterization. OU8 includes the upper waste sites. The construction activities for the cover at the open trench landfill was completed in October 2019, with seeding and mulching in November 2019. Base-wide PFAS investigation is underway.
Letterkenny Southeastern Area	Responsible Party (RP) - (US Military)	SC	Franklin	89, 90	33	Groundwater and Site soils are contaminated with toxic volatile organic compounds (VOCs). Residential wells are potentially affected. Potential for lead contamination at the small arms firing range.	The Site has been broken down into several operable units (OUs) to facilitate remediation. In Situ Chemical Oxidation injections occurred in June 2019 and April 2020 for OU3, OU6, and OU11. The OU5 Record of Decision (ROD) was finalized in June 2019 and the selected remedy is Land Use and Engineering Controls. The draft design for the cover on the landfill was submitted in April 2020. The OU8 annual vapor intrusion monitoring was conducted in March 2020. The OU9 In Situ Bioremediation amendments were injected in Spring 2019. Annual OU10 groundwater sampling was conducted in August 2019. OU12 annual landfill cap operation and maintenance is ongoing. The OU15 ROD was finalized in January 2020 and the selected remedy was Land Use Controls with a vapor barrier/mitigation system, or an evaluation of the vapor intrusion potential will be conducted. OU17 is for the small arms firing range on Site where lead is the potential primary concern. Remedial Investigation field activities occurred in December 2019. Base-wide PFAS investigation is underway.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Aladdin Plating	Responsible Party (RP)	NE	Lackawanna	114, 113	22	Groundwater was contaminated with chromium and other metals and threatened local water supplies.	The Site has been deleted from the NPL. Nearby home wells were sampled, and results were non-detect for Site contaminants. EPA would like to transition the site from a Removal to a Remedial Action, however, DEP does not concur. In November 2018, the five-year review inspection was conducted, and residential and monitoring wells were sampled. The five-year review report was signed in July 2019.
Lackawanna Refuse	State Funded O&M	NE	Lackawanna	114	22	On-Site groundwater was contaminated with nitrate, heavy metals, and toxic volatile organic compounds (VOCs). Off-Site groundwater was contaminated with the pesticide dieldrin.	DEP turned over operation and maintenance (O&M) responsibilities to the property owner. In October 2019, EPA submitted the final five-year review and placed the Site on the Ready-for-Reuse database.
Lehigh Electric	State Funded O&M	NE	Lackawanna	114	22	Site soils contain polychlorinated biphenyls (PCBs) and trichlorobenzene contamination.	The Site has been deleted from the NPL. DEP is maintaining the soil cap and monitoring contaminated groundwater. A meeting was held with EPA, DEP, and the perspective future property owner of the Site for use as a river walk and boat launch as part of a recreation project. The five-year review was finalized in January 2020.
Taylor Borough Dump	Responsible Party (RP)	NE	Lackawanna	114	22	Soils and groundwater are contaminated with toxic volatile organic compounds (VOCs) and heavy metals.	The Site has been deleted from the NPL. The city of Scranton is conducting operation and maintenance of the Site. DEP continues to monitor Site security. A Site visit with EPA occurred in May 2019 to prepare for the fifth five-year review.
Berkley Products Landfill	State Funded O&M	SC	Lancaster	37	36	Groundwater is contaminated with low levels of toxic volatile organic compounds (VOCs), 1,4-dioxane and heavy metals.	EPA installed a new treatment system on the residential well that was most impacted from 1, 4 dioxane. DEP is responsible for maintaining the landfill cap. EPA conducted a Remedial Investigation to determine the extent of 1,4-dioxane contamination in the groundwater. EPA submitted the final Remedial Investigation report and Feasibility Study in May 2020. DEP is currently reviewing these documents.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Elizabethtown Landfill	Responsible Party (RP)	SC	Lancaster	98	36	Groundwater is contaminated with toxic volatile organic compounds (VOCs) and contamination seeps into the Conoy Creek.	Construction of the soil cap and gas extraction system is complete. Repairs were made to the asphalt area overlying the contaminated area to improve drainage. Wells were installed to better delineate the impacted groundwater plume and for placing extraction wells in the landfill's source areas. The current remedy consists of in-situ bioremediation in conjunction with groundwater pump and treat.
UGI Columbia	Responsible Party (RP)	SC	Lancaster	98	36	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Site soils and sediments in the Susquehanna River are contaminated with coal tar.	The RP continues to monitor contaminated groundwater. EPA submitted the 2019 Annual Sampling & Monitoring Report for the Site. The report concluded that the concentrations of the chemicals of concern detected in wells within the Technical Impracticability waiver zone are generally steady. The groundwater flow direction toward the Susquehanna River indicates that natural gradient flushing is occurring in accordance with the approved dissolved phase plume remedy.
Whitmoyer Laboratories	Responsible Party (RP)	SC	Lebanon	102	48	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs) and arsenic.	Construction of a soil capping system is completed and protected by institutional controls. A groundwater extraction and treatment system is currently operating. In June 2019, second round of Phase 2 overburden groundwater samples and surface-water samples were collected. An additional round of creek bed /velocity profiles were also conducted. The goal is to better understand potential groundwater and creek water interaction. EPA's five-year review was completed in April 2020.
Dorney Road Landfill	Responsible Party (RP)	NE	Lehigh	187	16	Site soils are contaminated with heavy metals and the groundwater is contaminated with toxic volatile organic compounds (VOCs). Groundwater contamination has migrated from the Site into residential wells.	The final five-year review was received in April 2018. The Site is now delisted. Operation and maintenance activities continue. Residential and monitoring well sampling and landfill cap inspection are conducted on a quarterly basis.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Heleva Landfill	EPA Funded and Responsible Party (RP)	NE	Lehigh	187	16	Groundwater is contaminated with trichloroethylene (TCE) and has affected a nearby municipal water supply well.	DEP continues to work with EPA and the RP on the groundwater treatment system. Institutional controls will be added to the Site. The annual groundwater sampling event occurred in December 2019. In February 2020, the plant was shut down and repairs were made due to an exceedance of vinyl chloride. DEP received the Annual Groundwater Extraction Report and Monitored Natural Attenuation (MNA) Report in March 2020. The reports showed that MNA is working in the downgradient plume and VOC concentrations are decreasing.
Novak Landfill	Responsible Party (RP)	NE	Lehigh	183	16	Leachate and groundwater are contaminated with toxic volatile organic compounds (VOCs) and heavy metals. Residential wells were impacted.	The RP Group continues operation and monitoring activities at the Site. The Annual Groundwater Monitoring Report was submitted in April 2019. In May 2019, the Annual Landfill Gas Monitoring Report was submitted. One probe continues to exceed the LEL for methane. In July 2019, DEP sent a concurrence letter to EPA regarding the partial deletion of the groundwater portion at the Site. The property was purchased in January 2020 and the new owner is discussing potential Site use with EPA and DEP.
Rodale Manufacturing	Responsible Party (RP)	NE	Lehigh	131	18	Groundwater is contaminated with toxic volatile organic compounds (VOCs) and has migrated off-Site.	A groundwater pump and treat system is being maintained by the RP. DEP received the 2019 Annual Groundwater Monitoring Report in March 2020. The results of PFAS sampling were well below the EPA Health Advisory Standard of 70 ppt.
Butler Mine Tunnel	Responsible Party (RP)	NE	Luzerne	118	14	Area groundwater and surface water are contaminated with semi-volatile organic compounds (SVOCs) and petroleum hydrocarbons.	RP operation and maintenance of the remedy ceased in June 2017 when the Consent Decree expired. A final site inspection occurred, and EPA signed the Certificate of Completion in the Fall of 2017. DEP provided comments to EPA's five-year-review was finalized in June 2019. DEP is working on getting an environmental covenant recorded on the property where residual groundwater contamination exists.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Foster Wheeler Church Road TCE Site	Responsible Party (RP)	NE	Luzerne	119	20	Groundwater is contaminated with trichloroethylene (TCE). Private water supply wells were impacted and have been permanently replaced.	EPA has proposed the Site for the National Priority List. DEP concurred with EPA's Record of Decision for the interim remedial action in August 2018. In December 2019, the United States entered a Consent Decree with Foster Wheeler Energy Corporation. In May 2020, the final Interim Remedial Design/Interim Remedial Action Work Plan was received.
Valmont TCE Site	EPA Funded	NE	Luzerne	119, 116	14	Groundwater in the area is contaminated with trichloroethylene (TCE). Five area residences have toxic volatile organic compounds (VOCs) in the indoor air above the acceptable human health risk-based levels. Groundwater is contaminated with per- and polyfluoroalkyl substances (PFAS).	EPA sent an updated draft Focused Feasibility Study and the draft Proposed Remedial Action Plan in January 2020. An interagency meeting was held in March 2020. The Site needs further characterization in order to properly begin remediation. This Site will need a Record of Decision amendment to address new contamination.
Avco (Textron) Lycoming	Responsible Party (RP)	NC	Lycoming	83	23	Groundwater is contaminated with toxic volatile organic compounds (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 two residences next to the facility. EPA is drafting an environmental covenant to place use restrictions on the property. In early 2020, the RP notified EPA and DEP of plans to perform maintenance of the pump and treat system.
Sharon Steel	EPA Funded and Responsible Party (RP)	NW	Mercer	7	50	Groundwater contains elevated levels of metals. Site wetlands and the tributary from the wetlands to the Shenango River also show metals contamination.	EPA is implementing a remedial action at the Site separated to Operable Unit (OU) 1 and 2. OU1: Beginning in October 2018 and continuing through February 2021, the U.S Army Corps of Engineers will construct a biosolids-enhanced cap, as well as erosion control measures, stream bank restoration, and construction of wetlands next to the Shenango River. OU2: Remedial actions performed by the responsible party (RP) began in 2016. In January 2020, the RP submitted a remedial action completion report (RACR) to EPA to demonstrate completion of all work obligations under the consent decree. The RACR is under review by EPA.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Westinghouse Sharon	Responsible Party (RP)	NW	Mercer	7	50	Soil, sediment, and groundwater were contaminated with toxic volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), and metals.	The RP is currently operating and maintaining the Site. A "DO NOT EAT" advisory for all fish species caught in the Shenango River in Mercer and Lawrence Counties was released in August 2017. In Fall 2019, DEP installed the advisory signage along the river in areas identified by local stakeholders. The RP submitted a work plan in 2019 and began work in 2020. Based on the debris pile sampling results, an Explanation of Significant Differences was finalized in April 2020 to address the contaminated soils.
Jacks Creek	Responsible Party (RP)	SC	Mifflin	171, 82	34	Site soils and sediments in Jack's Creek are contaminated with heavy metals and polychlorinated biphenyls (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 spring 2020, the fourth five-year review process was started.
Brodhead Creek MGP	EPA Funded and Responsible Party (RP)	NE	Monroe	115	40	Groundwater, surface water and soils were contaminated with coal tar.	Construction is complete. The five-year review was finalized in April 2019 and discussions occurred for the placement of environmental covenants on properties where contamination still exists. In Fall 2019, well installation and repair work were completed along with the annual groundwater monitoring, porewater sampling, and biannual free product gauging and recovery.
Butz Landfill	State Funded O&M	NE	Monroe	176	40	Activities at the Site have resulted in high levels of toxic volatile organic compounds (VOCs) in domestic wells south of the landfill.	DEP is currently performing operation and maintenance of the groundwater remediation (pump and treat) system. Quarterly influent and effluent sampling continues. A Superfund State Contract (SSC) Amendment was executed in January 2020 to switch a monitoring and extraction well. The SSC Amendment work occurred in May 2020.
Tobyhanna Army Depot	Responsible Party (RP)	NE	Monroe	115	22	Residential wells are contaminated with organic solvents, primarily trichloroethylene (TCE) and tetrachloroethylene (PCE).	Affected residences are receiving public water. The 2018 Annual Performance Evaluation report was received in August 2019. DEP concurred with the Explanation of Significant Differences for Operable Unit 5 in September 2019. Sampling for per- and polyfluoroalkyl substances (PFAS) is planned for Fall 2020.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Ambler Asbestos	Responsible Party (RP)	SE	Montgomery	148	12	Soils are contaminated with asbestos waste.	The RPs are maintaining the Site under a consent decree until 2022. During site preparations in October 2018, the current owner exposed asbestos-containing material (ACM) that had been covered by the fill material. The project was halted, and DEP requested additional information as to how the owner would handle the ACM. In May 2020, DEP approved the owner's Addendum to the Final Fill Removal Plan. In July 2019, EPA finalized an Explanation of Significant Differences (ESD) that changed the operation & maintenance (O&M) requirements to include the monitoring of cracks on the Plant Pile as indicators of settlement and drainage issues. The ESD also requires that O&M be performed as long as asbestos is present on the Site.
Baghurst Alley	EPA Funded	SE	Montgomery	147	24	Groundwater is contaminated with toxic volatile organic compounds (VOCs).	EPA's Removal Program is working with the local government and the Water Authority to extend the municipal waterline and intends to initiate construction in Summer 2020. EPA completed a draft Remedial Investigation (RI) in September 2019 and a draft Feasibility Study (FS) in March 2020. DEP anticipates that the RI/FS will be finalized by August 2020. A Proposed Remedial Action Plan (PRAP) to address the source and hotspot areas is expected in Fall 2020.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
BoRit Asbestos	EPA Funded	SE	Montgomery	151, 148	12, 7, 17	Site was contaminated with asbestos and asbestos-containing materials.	Institutional controls are in place to prevent disturbance of the installed landfill caps in place. In November 2019, Whitpain Township entered a consent decree with EPA and DEP to perform operation and maintenance on the parcel that Whitpain owns. Whitpain plans to convert its Park Parcel into a functional recreational park for the local neighborhood, including playgrounds and pavilions, with access to the nearby Boys and Girls Club. Whitpain Township submitted an updated version of their Whitpain Park Workplan in May 2020 for review. EPA is currently in discussions with the owners of the Reservoir Parcel regarding an agreement similar to that with Whitpain. In March 2020, EPA notified DEP by letter that they declared the Site to be Operational and Functional.
Commodore Semiconductor	Responsible Party (RP)	SE	Montgomery	150	44	Groundwater is contaminated with toxic volatile organic compounds (VOCs) and freon and has affected area residential wells.	Operation and maintenance of the groundwater extraction and treatment system (GWETS) is ongoing. In 2017, the RP completed construction of an air injection/sparge vapor extraction system to address a zone of contamination present beneath the former manufacturing building. It is expected that this enhanced treatment will expedite remediation efforts. During the recent years, the GWETS has been transitioning to reduced-activity status, while the RP completes a Plume Stability Verification study. The RP is currently evaluating options to address EPA's concern of vertical migration of contaminants in a nearby impacted public water supply that has remained offline. The next five-year review is expected to be finalized in Summer 2020.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Crater Resources	Responsible Party (RP)	SE	Montgomery	149	17	Soil and groundwater are contaminated with volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs).	A developer's request to change the Record of Decision to allow for residential redevelopment of two parts on the Site was approved. In May 2018, the developer entered into a consent decree (CD) with EPA to perform the capping work on Quarry 1. However, the developer changed plans and will now simply build the permanent cap. The cap work began in April 2020. In 2019, permanent capping of Quarry 2 was completed, and has entered the operation and maintenance phase. The RP group has remediated Quarry 3. Quarry 4 was backfilled, capped with soil, and is partially covered with a parking lot and a portion of an office building foundation.
Henderson Road	Responsible Party (RP)	SE	Montgomery	149	17	Groundwater and the Upper Merion reservoir are contaminated with toxic volatile organic compounds (VOCs).	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. Currently, the RPs are conducting Enhanced In-Situ Bioremediation to further evaluate bioremediation via aerobic pathways as a remediation technology to accelerate the treatment of downgradient groundwater concentrations of benzene and chlorobenzene. A Focused Feasibility Study was completed in September 2019.
Moyer Landfill	State Funded O&M	SE	Montgomery	150	44	Leachate from the Site contains trichloroethylene (TCE) and nickel.	In 2019, DEP completed an inspection of the onsite leachate storage tanks, made repairs to the leachate collection pump system, and is currently evaluating potential opportunities to optimize the leachate discharge system. In summer 2020, DEP completed repairs of erosion damage on a nearby private property caused by runoff from the landfill. The property owner has been approached by a private solar power company to determine the feasibility of installing solar panels on the landfill cap. DEP continues to inspect the Site on a regular basis and reports the monthly leachate discharge totals to the local sewer authority.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Naval Air Station Joint Reserve Base, Willow Grove and Horsham Air Guard Station	Responsible Party (RP)	SE	Montgomery	151	12	Drinking water supply wells are contaminated with toxic volatile organic compounds (VOCs) and per- and polyfluoroalkyl substances (PFAS).	The Site is broken down into 12 operable units (OUs). Anaerobic bioremediation for VOCs is ongoing at OU5. As of March 2020, 679 private drinking water wells have been sampled for PFAS. 168 were found to exceed the EPA Health Advisory Level (>70 ppt). The Navy and Air National Guard have connected 142 homes to the public water supply system. The Navy conducted a time-critical removal action to remove an area of PFAS contaminated soil in Winter 2018/2019. The Navy implemented a pilot study for a groundwater extraction and treatment system and is planning on implementing a second pilot study in 2020.
North Penn 1	State Funded O&M	SE	Montgomery	53	12	Groundwater is contaminated with toxic volatile organic compounds (VOCs).	In 2009, DEP took over operation and maintenance of the groundwater remedy. DEP samples the onsite monitoring wells semiannually and the discharge to the local publicly owned treatment works quarterly. The five-year review recommended monitoring wells and performing a capture zone analysis to ensure that the operable unit 2 remedy is protective in the long term. EPA installed one new monitoring well in 2018, and EPA is working to install additional monitoring wells.
North Penn 2	Responsible Party (RP)	SE	Montgomery	53	12	Wetland soils and surface water sediments are contaminated with heavy metals. Groundwater is contaminated with trichloroethylene (TCE). Potential per- and polyfluoroalkyl substances (PFAS) contamination.	TCE levels continue to decrease in the groundwater with continued use of the groundwater extraction system. The RPs installed a vapor mitigation system in the existing manufacturing building. Sampling of extraction and monitoring wells for PFAS in 2019 revealed concentrations above the EPA Health Advisory Level (HAL) (>70 ppt) in extraction and upgradient monitoring wells. EPA collected samples at nearby residential wells for PFAS analysis. None of the private well samples contained PFAS at concentrations exceeding the HAL. EPA continues to evaluate the potential source of PFAS contamination.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
North Penn 5	EPA Funded & Responsible Party (RP)	SE	Montgomery, Bucks	53	10, 12	Site groundwater is contaminated with trichloroethylene (TCE). Contamination has affected one of the North Penn Water Authority production wells.	The Site has been broken down into operable units (OUs) to facilitate remediation. OU1: The RP group is in the process of installing additional deep bedrock monitoring wells to further delineate the groundwater plume, as part of updating the Conceptual Site Model to address data gaps. OU2: The RP group is currently evaluating alternative technologies through a pilot study to address contamination present in the overburden. Indoor air sampling was performed again in December 2019. Results indicated elevated concentrations of TCE within the building. The RP group continues to implement response actions related to vapor intrusion. In May 2020, EPA began work to install 3 additional monitoring wells to identify and delineate the extent of the groundwater plume. OU3: EPA is currently performing an evaluation of abiotic dechlorination within the bedrock aquifer and expects to evaluate new alternatives and potentially modify the remedy in the near future. No current risks to human health or the environment are known or suspected.
North Penn 6	EPA Funded & State Funded O&M	SE	Montgomery	53	24	Site groundwater is contaminated with toxic volatile organic compounds (VOCs). Contamination has affected several of the North Penn Water Authority production wells.	DEP currently performs operation and maintenance and groundwater monitoring at 4 of the 5 properties on Site. A request for partial Site deletion from the National Priorities List, dated March 2019, is under review. In May 2020, DEP concurred on an Explanation of Significant Differences that modified the operable unit 3 remedy by removing the requirement to install a groundwater extraction and treatment system. EPA is currently evaluating vapor intrusion at multiple properties throughout the Site.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
North Penn 7	Responsible Party (RP) & EPA Funded	SE	Montgomery	61	12	Site groundwater is contaminated with toxic volatile organic compounds (VOCs). Contamination has affected several of the North Penn Water Authority production wells.	EPA removed areas of soil contamination. The Site has been broken down into operable units (OUs) to facilitate remediation. OU1: In November 2019, DEP participated in EPA's Proposed Alternatives Review Briefing. A Proposed Plan is anticipated in August 2020 which will address soils for the Site. OU3: The results of a pilot study which occurred between 2013 and 2015 have been incorporated and evaluated as a remedial alternative in the Site's groundwater Feasibility Study. OU4: In August 2019, DEP concurred with EPA's Record of Decision, which selected No Action since no unacceptable risks to human health from Vapor Intrusion were identified in EPA's prior investigation.
North Penn 12	Responsible Party (RP)	SE	Montgomery	70	44	Groundwater in the area is contaminated with toxic volatile organic compounds (VOCs).	Construction is complete. The RP is maintaining the groundwater treatment plant. They also conducted an in-situ chemical oxidation (ISCO) pilot study implemented in early 2016. Installation of an additional downgradient monitoring well is planned to further characterize the edge of the contaminant plume and to provide additional data regarding the effectiveness of the pilot ISCO recirculation effort. Currently, EPA is conducting a five-year review of the Site remedy.
Occidental Chemical	Responsible Party (RP)	SE	Montgomery	146	44	Groundwater and soils are contaminated with toxic volatile organic compounds (VOCs).	The RP is operating the groundwater remediation system (system). In April 2019, EPA approved a system Optimization Plan for better performance to achieve remedial goals at the Site. As part of the Optimization Plan, the voluntary soil vapor extraction (SVE) system was taken offline and a new extraction well was installed adjacent to the SVE system. Select extraction wells are taken offline in a stepwise approach as outlined in the approved Optimization Report.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Raymark NPL Site	State Funded O&M	SE	Montgomery	152	12	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Contaminated groundwater has migrated off-Site.	The property owner is maintaining the lagoon caps. DEP took over the groundwater remediation (pump & treat) system. EPA expanded a vapor intrusion study and installed 10 new shallow monitoring wells. EPA identified 3 properties that required the installation of sub-slab depressurization systems; this work was accomplished in late 2018. EPA sampled for per- and polyfluoroalkyl substances (PFAS) in Spring 2019, and detections were below the USEPA Health Advisory Level (>70 ppt).
Salford Quarry	EPA Funded & Responsible Party (RP)	SE	Montgomery	147	24	Residential wells are contaminated with boron.	All residences with impacted or threatened wells have been connected to the public water supply. In early 2018, EPA installed additional monitoring wells; the data gathered from these new wells will be used to revise the Record of Decision for the landfill portion of the Site to more accurately reflect current site conditions. DEP reviewed and commented on an updated version of the Revised Feasibility Study in January 2020. EPA began collecting additional soil and rock samples from within the landfill in early May 2020.
Stanley Kessler	Responsible Party (RP)	SE	Montgomery	149	17	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs).	In July 2019, DEP concurred with an Explanation of Significant Differences (ESD) to update groundwater cleanup levels to incorporate the PA Act 2 medium specific concentrations (MSC) and require cumulative risk assessment when cleanup levels are achieved. The existing groundwater extraction system will continue until the onsite groundwater reaches the more stringent of the maximum contaminant level (MCL). The fourth five-year review was completed in July 2019 and found that the remedy was working as designed. An indoor air sampling event was conducted in February 2019, and the results did not exceed EPA's screening levels.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Tank Car Corporation of America	EPA Funded	SE	Montgomery	154	4	Soil is contaminated with polycyclic aromatic hydrocarbons (PAHs) and heavy metals.	EPA' Removal Program conducted a removal action as well as a consolidation/capping action. The Township acquired the property in October 2015, with the intention of making it a park. In March 2017, DEP executed a Prospective Purchaser Agreement with the Township. A Notice of Intent to Remediate was received on May 2017. The Township has applied for an Industrial Sites Reuse Program (ISRP) grant. In September 2019, DEP approved the Township's amended ISRP Work Plan. EPA also has initiated steps to evaluate all parties potentially responsible for the contamination at the Site. No further work is planned.
Tyson's Dump	Responsible Party (RP)	SE	Montgomery	149	17	Soils and groundwater are contaminated with toxic volatile organic compounds (VOCs). The Schuylkill River is impacted.	The RPs continue to operate and monitor the wet soil cover over the lagoon area and the groundwater pump and treat system. In Summer 2019, the RPs upgraded their treatment system by installing new, more efficient carbon vessels, and updated electronics, in their plant. EPA completed the fifth five-year review in August 2019 and found the site remedy protective of human health and the environment. DEP acknowledged EPA's Explanation of Significant Difference in September 2019 that modified the groundwater cleanup level and required that a cumulative risk evaluation be performed once groundwater levels have been achieved.
MW Manufacturing	Responsible Party (RP)	NC	Montour	107	27	Soil and groundwater are contaminated with chlorinated solvents.	Contaminated soil and wastes were remediated. A groundwater pump and treat system was constructed and continues to operate successfully. A pilot study was conducted, and the results found there is a potential to only treat the water with the air stripper and discontinue the Ultraviolet Oxidation system. Groundwater extraction wells were sampled for per- and polyfluoroalkyl substances (PFAS) and all results were non-detect or well below EPA's Health Advisory Level of 70 ppt.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Hellertown Mfg. Site	State Funded O&M	NE	Northampton	136	18	Groundwater is contaminated with trichloroethylene (TCE), which has migrated off-Site toward the nearby Saucon Creek.	The five-year review inspection occurred in September 2019 and the report is being reviewed. Semi-annual groundwater monitoring conducted in November 2019 showed that one of the 15 wells have a TCE concentration greater than the cleanup standard. Ongoing discussions are occurring among all parties to redevelop the site. PPL made repairs to the liner in March 2020 due to a 2018 light pole installation that drilled into the liner.
Industrial Lane	Responsible Party (RP)	NE	Northampton	136	18	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Several private water supply wells have been impacted.	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. The remedy continues to be protective. Fluoride contamination was detected in some of the landfill wells and a meeting was held in March 2020 to discuss how to deal with the contamination.
Enterprise Avenue Landfill	Responsible Party (RP)	SE	Philadelphia	185	1	Soil and groundwater are contaminated with toxic volatile organic compounds (VOCs) and metals.	The city of Philadelphia operates a pump and treat system at the Site. The RP initiated an in-situ anaerobic bioremediation pilot study, which is nearing completion. The One-Year Summary Report showed substantial reduction for 3 contaminants with mixed results for 2 others. Soil sampling to investigate a possible source is planned for 2020.
Franklin Slag Pile	EPA Funded	SE	Philadelphia	177	5	Slag piles contain various heavy metals, including lead, beryllium and copper.	During late 2018 and early 2019, DEP had several discussions and meetings with EPA regarding EPA's Feasibility Study, which proposes complete removal, onsite treatment, and offsite disposal for the slag pile, and limited action for the groundwater, including annual groundwater monitoring for 5 years and institutional controls for the groundwater. On January 22, 2020, DEP attended EPA's public meeting to introduce their Proposed Remedial Response Action (PRAP) for the Site. The PRAP selects onsite treatment and offsite disposal for the slag (OU1) and No Action for groundwater (OU2). In May 2020, EPA transmitted their draft ROD for DEP's review.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Metal Bank	Responsible Party (RP)	SE	Philadelphia	173	5	Groundwater, soils and Delaware River sediments are contaminated with polychlorinated biphenyls (PCBs).	EPA plans to request that riparian owners record environmental covenants for their affected submerged properties to prohibit interference with the caps. DEP suggested that EPA work with the Fish and Boat Commission's listing of navigation hazards that require maintenance. DEP participated in a conference call with EPA and the RPs in March 2020 to discuss some recent proposed changes to the Long-Term Monitoring Plan. During this meeting, the RPs requested that the property owner take on some of the cap maintenance activities including fence upkeep and grass mowing.
State Road Metal Bank	EPA Funded and Responsible Party (RP)	SE	Philadelphia	173	5	Soil is contaminated with polychlorinated biphenyls (PCBs).	Under an agreement with EPA, PennDOT performed remedial activities and received reimbursement from a trust fund established by a court order. PennDOT completed all work at the Site, including sewer lining and waste disposal in October 2015. Under a settlement agreement between the RP Group and EPA, the remaining removal action components were completed in October 2016. DEP plans to evaluate the Site to determine if close-out is appropriate.
Eastern Diversified Metals (EDM)	Responsible Party (RP)	NE	Schuylkill	124	29	Waste piles and sediments contain heavy metals, polychlorinated biphenyls (PCBs) and toxic volatile organic compounds (VOCs).	The RPs continue to perform operation and maintenance of the treatment plant, which includes; monthly inspections, ground water monitoring, surface water sampling, and annual maintenance activities.
McAdoo Associates	Responsible Party (RP)	NE	Schuylkill	124	29	Groundwater and soils are contaminated with toxic volatile organic compounds (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. Environmental covenants were sent by EPA to perspective parties. DEP concurred on a third Explanation of Significant Difference in September 2019. A final draft five-year review was received in April 2020 for both OU1 and OU2.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
Allied Signal (former Bendix Flight Systems)	Responsible Party (RP)	NE	Susquehanna	111	23	Groundwater, surface water and some private wells are contaminated with toxic volatile organic compounds (VOCs).	Remediation of contaminated groundwater (pump and treat) is ongoing. The Amendment to the Supplemental Remedial Investigation/Focused Feasibility Study Work Plan was finalized in September 2019 and field work began in October 2019, which included soil borings and groundwater well installations. The Capture Zone Analysis Work Plan was sent in March 2020.
East Mt. Zion Landfill	State Funded O&M	SC	York	47	48	Groundwater is contaminated with toxic volatile organic compounds (VOCs). Residential wells show no signs of contamination, and the majority of residents are on public water.	DEP is responsible for maintaining the landfill cap and monitoring groundwater contamination. In Spring 2020, DEP began to address the groundhog infestation at the Site through burrow fumigation. DEP also participated in two technical discussions focused on planning the re-vegetation effort which were hosted by EPA and incorporated their Biological Technical Assistance Group. EPA plans to seek additional funds through a grant to fund the re-vegetation effort.
Modern Sanitation Landfill	Responsible Party (RP)	SC	York	94	28	Groundwater, surface water and soils are contaminated with toxic volatile organic compounds (VOCs). Contamination impacts area residential wells.	A landfill cap system and fencing were installed. Ongoing activities include surface water and groundwater sampling, landfill gas monitoring, and groundwater pump and treatment of the wastewater. Ongoing discussions are occurring on the potential landfill expansion.
Old City of York Landfill	Responsible Party (RP)	SC	York	93	28	Groundwater and domestic wells were contaminated with toxic volatile organic compounds (VOCs). Surface water contains heavy metals.	Groundwater contamination is being monitored and land use controls are in place. Groundwater sampling occurred in Summer 2019. Under the operation and maintenance program the following are completed quarterly: sediment thickness measurements; inspections and calibrations of combustible gas monitors; and inspections of monitoring wells, fencing, landfill cover/vegetation, passive gas vents, and the leachate sediment collection vaults/distribution box.

Site Name	Lead Agency	DEP Region	County	House	Senate	Threat	Status
York County Landfill	Responsible Party (RP)	SC	York	93	28	Groundwater is contaminated with toxic volatile organic compounds (VOCs).	The RP continues to operate and maintain a groundwater pump and treat system. In November 2019, orange discoloration in the streambed of one of the groundwater treatment outfalls was discovered. It was determined that the cause was sediment from a remediation well. The well was purged, and the area was cleaned up.

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 - Southcentral, NC - Northcentral, 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 Complete:** 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.
- 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.

Operable Unit: “Operable Unit” - EPA frequently separates areas of contamination at sites into operable units (OU). This separates phases of work and allows more immediate threats to be addressed quicker.