



*Prepared for:*

**CHANCE FAMILY TRUST  
1430 BROADWAY, 17TH FLOOR  
NEW YORK, NEW YORK 10018**

## **PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**TROUTBECK FARM, 730 MONUMENT ROAD  
WILLISTOWN TOWNSHIP  
CHESTER COUNTY, PENNSYLVANIA**

**JUNE 2, 2017**

*Project number:* **11442**

*Prepared by:* **ENVIROSURE, INC.**

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June 2, 2017

*Project No. 11442*

Ms. Lilian Chance  
Chance Family Trust  
1430 Broadway, 17th Floor  
New York, New York 10018

**RE: PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
Troutbeck Farm, Monument Road  
Willistown Township  
Chester County, Pennsylvania

Dear Ms. Chance:

We are pleased to present our Phase I Environmental Site Assessment Report for the referenced site. We trust that the information presented in this report meets your needs.

We appreciate the opportunity to provide you and Chance Family Trust with professional environmental services. Should you require additional information or have questions regarding this report, please contact me at 610.696.8980 or via email at [scott@envirosureinc.com](mailto:scott@envirosureinc.com).

Sincerely,  
**ENVIROSURE, INC.**

A handwritten signature in blue ink, appearing to read 'Scott Smith', with a long horizontal stroke extending to the right.

Scott Smith, P.E., LEED AP  
President

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## SUMMARY

Chance Family Trust (the Client) retained EnviroSure, Inc. (EnviroSure) to conduct a Phase I Environmental Site Assessment (ESA) of the property located at Troutbeck Farm, Monument Road in Willistown Township, Chester County, Pennsylvania (the Site). The scope of services included review of historical records, review of federal and state databases and local governmental files, site reconnaissance, interviews, and report preparation.

This Phase I ESA was conducted by an Environmental Professional in accordance with *the American Society for Testing and Materials International (ASTM) Standard Practice E1527-13 for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E1527-13)*. Based on the findings of this Phase I ESA, the Site contains Recognized Environmental Conditions that could subject the current property owners and prospective property purchasers to environmental liabilities. EnviroSure's Findings, Opinion, and Conclusions are presented in **Sections 7.0, 8.0, and 9.0**, respectively.

## **1.0 INTRODUCTION**

Summaries of the scope of work, contract limitations, conditions, and limitations identified for the contracted work are presented below.

### **1.1 Purpose**

The purpose of the ESA summarized in this report was to identify Recognized Environmental Conditions on the Site in general accordance with ASTM E1527-13.

### **1.2 Scope of Services and Deviations**

EnviroSure's April 24, 2017 Agreement Letter defines the scope of services under which the work was performed for this Phase I ESA. Our scope of work was limited to those items specifically identified in the Agreement Letter. Evaluations of wetlands, radon, asbestos, lead-based paint, and mold were not included in this scope of services. Environmental issues not specifically addressed in the Agreement Letter or this report were beyond the scope of our evaluation. Reliance on the contents of this report by parties other than the Client is with written permission by the Client and subject to the same contract provisions as apply to the Client.

### **1.3 Limitations and Exceptions**

EnviroSure performed this Phase I ESA in general accordance with the guidelines set forth in ASTM E1527-13 and the All Appropriate Inquiry (AAI) regulation. AAI compliance is one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability.

The ASTM E1527-13 does not impose on the environmental professional the responsibility to undertake a review of recorded land title records and judicial records for environmental liens or activity and use limitations (AULs). EnviroSure's scope of services excluded obtaining and reviewing these records. It is the User's responsibility to engage a title company or title professional to undertake a review of reasonably ascertainable recorded land title records and lien records for environmental liens or AULs currently recorded against or relating to the Site.

Phase I ESAs are not comprehensive and are unlikely to identify all environmental problems or eliminate all risk. No warranty, expressed or implied, is made by EnviroSure. EnviroSure offers environmental investigations of soil and groundwater to further evaluate potential environmental conditions on a site. EnviroSure works with our clients to identify the level of investigation needed to provide them with an acceptable level of risk.

This report is intended for the exclusive use of the Client and those corporations, partnerships, or other entities represented by the Client that are formed to acquire or hold title to the Site discussed in this report and may not be relied upon by other parties.

This report presents EnviroSure's opinion of the presence of Recognized Environmental Conditions on the Site based on the information summarized in this report. EnviroSure's opinion may be subject to modification upon receipt of additional information.

Site conditions and environmental regulations change over time and, as a result, ASTM E1527-13 defines the continued viability of Phase I ESAs. In accordance with Section 4.6 of ASTM E1527-13, this report is presumed to be valid when meeting or exceeding the requirements of ASTM E1527-13 and completed less than 180 days prior to the date of acquisition of the Site.

EnviroSure must be contacted by any entity other than the Client who wishes to use this report. Based on the intended use of this report, EnviroSure may require that this report be updated to meet the User Requirements defined in Section 6 of ASTM E1527-13. Non-compliance with any of these requirements by the Client or any other entity will release EnviroSure from any liability resulting from the use of this report by any unauthorized party and the Client agrees to defend, indemnify, and hold harmless EnviroSure from any claim or liability associated with such unauthorized use or non-compliance.

#### **1.4 Special Terms and Conditions**

The Site owner is solely responsible for notifications in accordance with federal, state, and local laws of the existence, release, treatment or disposal of any hazardous substances or petroleum products observed at the Site. EnviroSure assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous substances and petroleum products encountered or present on the Site, or from the discovery of such hazardous materials.

#### **1.5 Limiting Conditions and Data Gaps**

This Phase I ESA generally follows the methodology in ASTM E1527-13. The limiting conditions and data gaps encountered during this Phase I ESA were:

1. EnviroSure offers to review client-provided, chain-of-title documentation. The Client did not forward chain-of-title documentation to EnviroSure by the time of report preparation and submission.
2. The ASTM E1527-13 standard states that all obvious uses of the property shall be identified from the present, back to the property's first developed use, or back to 1940, whichever is earlier. Based on EnviroSure's review, the Site appeared to be used historically for agricultural purposes from at least as early as 1820. However, agricultural use of a property is considered a developed use. The ASTM E1527-13 standard considers this lack of reasonably ascertainable and likely to be useful historical records showing the first use of the Site as data failure and not uncommon. EnviroSure does not consider this data failure to impact EnviroSure's ability to identify Recognized Environmental Conditions on the Site.

## 2.0 SITE DESCRIPTION

Discussions of the general site features are presented below.

### 2.1 Site Location and Legal Description

**Address:** Troutbeck Farm, 730 Monument Road

**Municipality:** Willistown Township

**County:** Chester

**State:** Pennsylvania

**Size:** Approximately 60.0-acres

A Site Location Map based on United States Geological Survey (USGS) 7.5-minute quadrangle topographic maps using the Pennsylvania Spatial Data Clearinghouse (Penn State University, 2015) is included as **Figure 1**. A Site Conditions Plan is included as **Figure 2**.

### 2.2 Physical Setting

The Site is located approximately 525-feet above National Geodetic Vertical Datum (NGVD). Based on review of the USGS 7.5-minute topographic map of the area, the Site is situated on relatively flat terrain. Ground surface elevation in the vicinity ranges from approximately 600-feet above NGVD north of the Site to approximately 400-feet above NGVD southwest of the Site along Ridley Creek.

#### 2.2.1 Geology

The Site is underlain by the Lower Paleozoic aged Octoraro Formation in the Piedmont Upland Section of the Piedmont Physiographic Province. The Octoraro Formation is a phyllite that contains some schist, hornblende gneiss, and granitized members. It has quartz-albite-muscovite-chlorite assemblages. Its thickness is unknown (Berg and others, 1980; Kauffman, 1999).

#### 2.2.2 Hydrogeology

Based on topography of the area surrounding the Site, the inferred direction of regional groundwater flow is southwest, toward Ridley Creek. It should be noted that site-specific groundwater flow may fluctuate based on local geology, local well use, and seasonal variations.

### 3.0 HISTORICAL USE INFORMATION

To obtain information regarding the past uses of the Site and surrounding area in order to identify the likelihood of past uses having led to Recognized Environmental Conditions in connection with the Site, EnviroSure reviewed aerial photographs, historical maps, and an abstract of city directories. A summary of the reviewed information is provided in this section.

#### 3.1 Aerial Photography Review

EnviroSure reviewed aerial photographs online for the Site and surrounding area dated 1937, 1951, 1958, 1965, 1971, 1968, 1992, 1999, 2002, 2004, 2008, 2010, and 2013. A summary of the aerial photographs reviewed by EnviroSure is provided below.

- 1937:** The region is primarily agricultural. Most of the Site is being actively cultivated, and there is a small cluster of farm-related structures in the area of the current 730 Monument Road buildings and a section of heavily naturally-vegetated land in the southeast of the Site. There is one residential structure east of the Site off of Stonehenge Lane and further from the Site there are farmhouses and outbuildings scattered throughout the region.
- 1951:** There is a new large barn structure on the Site in the vicinity of the other previously observed ones. The driveway which belongs to the Site property running perpendicularly off of Monument Road east of the Site buildings is present and there is a residential structure off of it to the east. There is a residence west of the Site along Monument Road.
- 1958:** No significant changes were noted on the Site. There is an additional residence on the east side of the driveway east of the Site buildings and south of the previously noted structure.
- 1961:** No significant changes were noted on the Site and surrounding area.
- 1965-1968:** No significant changes were noted on the Site. Stonehenge Road has been constructed east of the Site and there is a residential development along both sides of the road with the back property lines of the ones on the west side of the road bordering the Site.
- 1971:** The driveway east of the Site buildings now runs in a roughly south-southeasterly direction all the way to the heavily vegetated land in the southeast part of the Site and then skirts the heavily vegetated area in a southwesterly direction to intersect Forest Lane. There is a small building in the heavily vegetated section on the Site just beyond where the driveway turns southwest.
- 1992:** The driveway leading to the Site buildings has been extended slightly to the southeast and there is an additional building and outbuilding at the end of the driveway.

- 1999:** No significant changes were noted on the Site. A residential development is being constructed on the north side of Forest Lane abutting the Site southwest boundary line.
- 2002:** No significant changes were noted on the Site. There is increased residential development adjoining the Site on the north side of Forest Lane and the west side of Stonehenge Lane.
- 2004-2013:** No significant changes were noted on the Site and surrounding area.

### **3.2 Historical Maps**

EnviroSure contacted EDR to order Sanborn Fire Insurance maps (Sanborns) for the Site. Sanborns were unavailable for the Site. A copy of the notification of no Sanborn coverage is included in **Appendix A**. EnviroSure reviewed online historical USGS topographic maps dated 1906, 1910, 1914, 1925, 1928, 1931, 1938, 1943, 1944, 1957, 1962, 1969, 1975, 1984, and 2001 of the Site and the surrounding area. Changes in the land use of the Site and the surrounding area were noted on the historical maps. The following is a brief summary of our review of the historical maps for the Site and surrounding area.

- 1906-1938:** There is one building in the northeastern portion of the Site and the remainder is undeveloped. The Site is bordered by Monument Road on the north and the southeast corner is bordered by Forest Lane. There are widely scattered buildings in the region, but none on adjoining properties.
- 1943:** There is a second building depicted on the Site and there is a dirt road extending from Forest Lane in a northerly direction to the buildings. There is a building west of the Site along Monument Road. There is a forested section in the southeast corner of the Site.
- 1944:** The map is the same as the 1906-1938 time span.
- 1957-1962:** There is a road running down the narrow strip of the Site east of the buildings, looping roughly to the west, passes the buildings and then runs north to intersect Monument Road again. There is a small structure and barn on the Site. There are two residences along the east side of the eastern part of the loop road. There is a small building in the forested section of the Site.
- 1969:** No significant changes were noted on the Site. Stonehenge Lane and Friarsheel Lane were noted east of the Site and there is a large residential development along those roads with the rear of the parcels on the west side of Stonehenge Lane adjoining the Site.
- 1975-1984:** There is a second small building on the Site east of the previously noted one. There is only one building east of the eastern part of the loop road. There is a structure just west of the southeastern portion of the Site along Forest Lane.

**2001:** The two pieces of the former loop road off of Monument Road are no longer truncated before they make a turn to connect. There are now two small and two large structures on the Site. Most of the adjoining properties are shaded as built-up/urban and no features are depicted.

### 3.3 City Directories

EnviroSure obtained the abstract of city directories for Monument Road (target street) in **Appendix B** from EDR. No cross streets were identified. The Cole Criss-Cross Directory was searched for the years 1971, 1976, 1981, and 1986, and Cole Information Services directory was searched for the years 1992, 1995, 1999, 2003, 2008, and 2013. Occupants of the Site are summarized below.

#### 730 Monument Road

1981	Ben Chance William Drinkwater Bill Lucas
1986	Pat Brunstetter Ben Chance Margaret Chance William Drinkwater Bill Lucas
1992	BRUNSTETTER, PAT CHANCE, BEN LUCAS, BILL
1995	BOYLES, WESLEY BRUNSTETTER, PAT LUCAS, BILL
1999	BEN CHANCE EDWARD DRINKWATER GINA DAVIS PAT BRUNSTETTER WESLEY BOYLES
2003	CHARLES SUTER LILIAN CHANCE WESLEY BOYLES WILLIAM LUCAS
2008	WESLEY BOYLES
2013	WESLEY BOYLES

The surrounding properties, with the exception of 729 and 751 Monument Road which appear to be medical offices, are all residential in nature. Refer to the city directory abstract in **Appendix B** for details of these and other nearby properties.

## 4.0 RECORDS REVIEW

To obtain information regarding past regulatory activity and environmental investigations at the Site, EnviroSure reviewed the federal and state databases provided in the EDR Radius Map™ Report with Geoscheck® and contacted local and state regulatory officials concerning the Site.

### 4.1 Standard Environmental Record Resources

The EDR Radius Map™ Report with Geoscheck® is provided in **Appendix C**. The EDR report occasionally lists facilities that are not within the search radius of the Site due to poor location information in the source databases. Other facilities might be listed as “orphans” when the locations are not known. The computerized search of databases included:

#### Federal Databases:

1. National Priorities List (NPL); Delisted NPL List
2. CERCLA Information System (CERCLIS) List
3. CERCLIS No Further Remedial Action Planned (NFRAP) List
4. Resource Conservation and Recovery (RCRA) Corrective Action Report (CORRACTS) List
5. Non-CORRACTS Treatment, Storage, and Disposal (TSD) Facilities List
6. RCRA Generators List
7. Institutional Control/Engineering Control Registries
8. Emergency Response Notification System (ERNS)

#### State Databases:

1. Hazardous Sites Cleanup Act (HSCA) and SHWS Lists
2. Solid Waste Facilities/Landfill (SWF/LF) List
3. Historical Landfill List
4. Leaking Underground Storage Tank (LUST) Incident List
5. Unregulated Leaking Tanks (LTANKS)
6. Voluntary Cleanup Program (VCP) List
7. Brownfields List
8. Regulated Underground Storage Tank (UST) List
9. Institutional Control/Engineering Control Registries

A brief summary of information from the computerized search of the Federal and State databases, as well as other local ascertainable and EDR proprietary high risk records, is provided below. For a detailed summary of each facility identified in the searched databases, refer to the EDR report provided in **Appendix C**. The search distances from the Site presented in the summary below are recommended in ASTM E1527-13. Per ASTM E1527-13, EnviroSure limited the search for institutional control registries to the Site.

### The Site:

The Site was not listed in the searched databases.

### One Mile Radius Search: NPL, RCRA CORRACTS, HSCA, and SHWS Databases

One RCRA CORRACTS facility was identified within a one mile radius of the Site. Safety-Kleen/Malvern 2-39-02 (147 West King Street) was identified approximately 0.92 miles northeast and topographically upgradient of the Site. Remediation of contaminated groundwater was terminated in mid-2007 and no further action was deemed necessary.

One SHWS facility was identified within a one mile radius of the Site. Bishop Tube (1 Malin Road) was identified approximately 0.93 miles north-northwest and topographically downgradient of the Site.

NPL and HSCA facilities were not identified within a one mile radius of the Site.

### One-Half Mile Radius Search: Delisted NPL, CERCLIS, NFRAP, Non-CORRACTS TSD, SWF/LF, Historic Landfill, VCP, State Brownfields, LUST, and Unregulated LTANKS Databases

One Leaking UST (LUST) facility was identified within a one-half mile radius of the Site. Phelps School (583 Sugartown Road) was identified approximately 0.25 miles east-southeast and topographically downgradient of the Site, and had a Status of Cleanup Complete.

Delisted NPL, CERCLIS, NFRAP, Non-CORRACTS TSD, SWF/LF, Historic Landfill, VCP, State Brownfields, and Unregulated LTANKS facilities were not identified within a one-half mile radius of the Site.

### One-Eighth Mile Radius Search: EDR Hist Cleaner and PA DRYCLEANERS Databases

EDR Hist Cleaner and PA DRYCLEANERS facilities were not located within a one-eighth mile radius of the Site.

### Adjoining Properties: RCRA Generator and Registered UST Databases

RCRA Generator and Registered UST facilities were not located on adjoining properties to the Site.

### Vapor Encroachment Screening

As noted above, the Tier 1 vapor encroachment screening identified no petroleum LUST or dry cleaner facilities within 1/10-mile of the Site. Therefore, vapor encroachment is not likely to be of potential concern at the Site.

## 4.2 Local Records

On May 5, 2017, EnviroSure requested access to information Willistown Township may have in their files for the Site. On May 11, 2017, David Burman, Township Manager for Willistown Township, stated that the Township will provide a substantive response to EnviroSure's request for files, no later than June 2, 2017. Copies of the request letter and response are included in **Appendix D**.

On June 1, 2017, EnviroSure conducted a file review at the Willistown Township Municipal Building in Malvern, Pennsylvania. Files reviewed included:

- real estate transfers to the Lilian Chance Family Trust
- certificates of occupancy for residences on Monument Road and at 820-833 Forest Lane
- building permit applications for additions, patios, and enclosed porches
- zoning permit applications
- electrical permits, plumbing permits
- Forest Lane subdivision plans and applications from as early as 1969
- Troutbeck Farm subdivision plans and applications from as early as 1983
- soil and erosion control documentation
- sewage facilities planning modules

None of the files reviewed provided any indication that the environmental integrity of the Site has been compromised. Several of the subdivision plans and applications for Troutbeck Farm (the Site) included Environmental Advisory Council Reviews by Willistown Township. None of the reviewed files provided any indication that the environmental integrity of the Site has been compromised.

## 4.3 State Records

On May 5, 2017, EnviroSure sent a Request for Informal File Review to the PADEP Southeast Regional Office to request access to records for the Site that they may have in their files. On May 8, 2017, Jo Anne O'Hara with the PADEP responded that records for the Site were not located in their files. Copies of the correspondence are included in **Appendix D**.

## 4.4 Owner-Provided Documentation

The owner of the site provided EnviroSure with a proposed subdivision plan entitled "Alternative Layout E, Troutbeck Farm" produced by Integrated Land Management, Inc. dated September 30, 2016. Copies of owner-provided documentation are included in **Appendix E**.

## 4.5 User Questionnaire

The Client completed the User Questionnaire during this Phase I ESA. A copy of the completed User Questionnaire is included in this report in **Appendix F**. EnviroSure's

Findings, Opinions, and Conclusions are in consideration of the completed User Questionnaire.

## 5.0 SITE RECONNAISSANCE

On May 17, 2017, Kevin Casey, Environmental Professional with EnviroSure, conducted a site reconnaissance to observe the presence of possible Recognized Environmental Conditions on the Site. Bill Lucas provided EnviroSure access to the Site.

A General Site Location Plan is included as **Figure 1**. A Site Conditions Plan is included as **Figure 2**. Selected photographs taken during the site reconnaissance are included in **Appendix G**. This section describes the observations made during this portion of the evaluation.

### 5.1 Site and Vicinity Characteristics

The approximately 62.22-acre Site consists of a farmhouse, shed stalls, three sheds, a barn, ranch house, a barn with an attached apartment, two pole barns, a meadow, open space, two ponds, two retention basins, wetlands, and actively farmed land. According to Bill Lucas, a potable well provides water, septic tanks and a cesspool serviced by Gray Brothers, Inc. provide sewer services, and PECO provides electricity to the Site. Mack Oil Company provides heating oil and services two 275-gallon aboveground heating oil tanks on the Site.

The surrounding area consists primarily of residential properties. The properties north and west of the Site include residences along Monument Road and Hickory Lane. The properties south of the Site include residences along Forest Lane and the properties east of the Site consist of residences on Stonehenge Lane and Salisbury Lane.

### 5.2 Current Use of the Site

The Site is currently known as Troutbeck Farm. Corn and soybean are actively farmed on approximately 20.0-acres on the Site. The property includes a farmhouse, apartment, and a ranch house in addition to a variety of sheds, barns, and storage bays/stalls.

### 5.3 Descriptions of Improvements

The Site is improved with a farmhouse, ranch house, main barn, an apartment building with attached barn, and a shed stall building. Descriptions of each building follow.

#### Farmhouse

The original portion of the farmhouse was built in 1810 and an addition was constructed during the 1950s. The farmhouse includes a stone foundation with a basement and three-floors which measure approximately 3,200-square feet. The farmhouse has two, 275-gallon aboveground heating oil tanks in the basement, electric window air conditioning units, and a cesspool/septic tank combination. Based on interviews conducted during the site visit, two, 275-gallon underground heating oil tanks on the eastern side of the farmhouse and a 1,000-gallon underground heating oil tank on the northern side of the farmhouse were emptied, closed in place, and filled with foam during

the 1970s.

#### Ranch House

The ranch house is a single story structure with a poured concrete foundation (no basement) that features electric baseboard heat and a septic tank. The ranch house was being used for storage during the site reconnaissance.

#### Main Barn

The main barn was constructed in the 1800s and includes a stone foundation and pitched corrugated roof. The main barn previously included wire corn cribs and a milking parlor. The barn was being used for equipment storage during the site visit.

#### Apartment building with attached barn

The “new barn” was constructed in 1972 and includes mostly stables. An attached, masonry apartment unit measuring approximately 1,500-square feet features two floors (no basement), a septic tank, electric baseboard heat, and window air conditioning units.

#### Shed stall building

The shed stall building was built in the 1960s and was previously used primarily for machinery storage (farm tractors, hay wagons) and maintenance. The shed stall building has two floor drains that discharge to the small pond area. See **Figure 3**.

\*The Site also features two sheds and a pole barn that were being used for storage during the site visit. See **Figure 2**.

Ingress and egress for the Site is via a driveway located along Monument Road.

### **5.4 Current Use of Adjoining Properties**

The current use of adjoining properties are each single family residences:

**North:** 728 Monument Road, residential use

**East:** 724 Monument Road, residential use

**South:** 836 Forest Lane, residential use

**West:** 3 Lucas Lane, residential use  
738 Monument Road, residential use

## 5.5 Exterior Site Observations

**Table 5-1** provides descriptions of environmental items observed on the Site (outside of structures) during the site reconnaissance.

**Table 5-1, Exterior Site Observations**

Item	Description	Evidence was observed during site visit
Unidentified Containers/Sources		No
Hazardous Substances and Petroleum Products (Identified Uses)	See USTs below.	Yes
Solid Waste/Fill of Unknown Origin		No
Underground/Aboveground Storage Tanks (USTs/ASTs)	An abandoned 500-gallon gasoline UST is located on the west side of the main driveway. Two, 275-gallon and one, 1,000-gallon underground heating oil tanks are closed in place and filled with foam. They are located around the farmhouse. A 5,500-gallon manure trailer is buried in the vicinity of the farmhouse. See <b>Figure 3</b> .	Yes
Polychlorinated Biphenyls (PCBs)		No
On-Lot Septic System/Potable Wells	The farmhouse is connected to a cesspool and a septic tank. The ranch house and the apartment building each have a septic tank. A potable well is located on the east side of the farmhouse. Two hand dug wells were previously on Site for cattle ranching.	Yes
Pits, Ponds, and Lagoons		No
Wastewater		No
Areas of Surface Spillage/Soil Discoloration/Stressed Vegetation		No

## 5.6 Interior Site Observations

**Table 5-2** provides descriptions of environmental items observed in structures on the Site during the site reconnaissance.

**Table 5-2, Interior Site Observations**

Item	Description	Evidence was observed during site visit
Unidentified Containers/Sources		No
Hazardous Substances and Petroleum Products (Identified Uses)	De minimis amounts of paints and thinners were observed in the main barn during the site reconnaissance.	No
Solid Waste, Trash, Surface Debris		No
Underground/Aboveground Storage Tanks (USTs/ASTs)	Two, 275-gallon aboveground heating oil tanks are located in the farmhouse basement.	Yes
Polychlorinated Biphenyls (PCBs)		No
Hydraulic equipment		No
Deteriorated Floors, Floor Drains, and Sumps	A floor drain in the basement of the farmhouse reportedly ties into a french drain and two floor drains in the shed stalls discharge to the small pond area.	Yes
Areas of Surface Spillage		No

## **6.0 INTERVIEWS**

Summaries of interviews with state and local government officials and owners & operators are presented in this section.

### **6.1 Interviews with State and /or Local Government**

On May 8, 2017, Jo Anne O'Hara with the PADEP responded that records for the Site were not located in their files.

On May 11, 2017, David Burman with Willistown Township stated that the Township will provide a substantive response to EnviroSure's request for files, no later than June 2, 2017. On June 1, 2017, EnviroSure conducted a file review at the Willistown Township Municipal Building in Malvern, Pennsylvania. None of the reviewed files provided any indication that the environmental integrity of the Site has been compromised.

No additional interviews with State and/or Local Government were conducted.

### **6.2 Interviews with Owners and Occupants**

On May 17, 2017, Mr. Kevin Casey, Environmental Professional with EnviroSure, conducted a personal interview with Bill Lucas, the owner of the Site. Mr. Lucas stated that his family acquired the Site through a series of purchases in the late 1940s. Mr. Lucas added that the Site has been farmed continuously. Mr. Lucas provided construction dates of each structure on the Site and discussed their previous and current uses. Mr. Lucas identified the locations of an abandoned 500-gallon gasoline UST (western side of main driveway), two, 275-gallon and one, 1,000-gallon underground heating oil tanks (vicinity of farmhouse) which were closed and filled with foam, probably by Mack Oil Company, in the mid-1990s, and a 5,500-gallon manure trailer that was buried on the Site in 1976.

On May 17, 2017, Mr. Kevin Casey, Environmental Professional with EnviroSure, conducted a personal interview with Brooke Drinkwater, owner of the Site and occupant of the farmhouse. Ms. Drinkwater provided access to the farmhouse and discussed the history of the Site. Other than the previously discussed underground tanks on the Site, Ms. Drinkwater was not aware of any environmental issues with the property.

On May 17, 2017, Mr. Kevin Casey, Environmental Professional with EnviroSure, conducted a personal interview with Dick Sutter, the occupant of the apartment on the property. Mr. Sutter provided access to all areas of the Site and discussed the history of the property and previous and current uses of each portion of the Site. Mr. Sutter stated that he has been living on the Site for 17-years but has been working on the property for over 50-years. Other than the previously discussed underground tanks on the Site, Mr. Sutter was not aware of any environmental incidents, releases, or conditions with the Site or the surrounding area.

### **6.3 Interviews with Owners of Neighboring or Nearby Properties**

Owners of neighboring or nearby properties were not available for interviews during the site reconnaissance on May 17, 2017.

## 7.0 FINDINGS

Based on the results of this Phase I ESA and supported by the site reconnaissance, it is EnviroSure's opinion that the Site contains the following potential Environmental concerns:

### 1. Gasoline UST

Based on interviews, a 500-gallon gasoline UST is located on the western side of the main driveway. See **Figure 3**. The UST was supposedly installed in 1966 and became inactive in the early 1980s. No additional closure documentation for the gasoline UST was available to EnviroSure during this ESA.

### 2. Underground heating oil tanks

Based on interviews, two, 275-gallon and one, 1,000-gallon underground heating oil tanks in the vicinity of the farmhouse were emptied and filled with foam during the mid-1990s. No additional closure documentation was available for the foam filled underground heating oil tanks on the Site.

### 3. Floor drains in the shed stalls

Two floor drains were observed in the shed stalls during the site reconnaissance. Based on interviews, the floor drains discharge to an outfall in the area of the small pond on the western portion of the Site. See **Figure 3**. The regular use of petroleum products or hazardous material in the shed stalls would represent a condition that poses a material threat of a future release to the environment. Based on interviews, the shed stalls (currently used for storage), were primarily used for machinery storage and machinery maintenance in the past.

### 4. Buried manure trailer

Based on interviews, a 5,500-gallon manure trailer (wheels included) was buried in the vicinity of the farmhouse in 1976 (see **Figure 3**). The manure was supposedly pumped out and spread onto the agricultural fields during the 1970s and the trailer was subsequently filled with a sanitizing soap agent.

### 5. Properties with environmental concerns in the surrounding area

The regulatory database report identified properties within the ASTM E1527-13 search distances of the Site with environmental concerns.

## 8.0 OPINION

The following provides EnviroSure's opinion of the impact on the Site of the potential environmental concerns that were identified in the Findings section of this report:

1. Gasoline UST

The 500-gallon gasoline UST located on the western side of the main driveway is a Recognized Environmental Condition on the Site. EnviroSure recommends performing a geophysical survey to locate the tank outline then properly closing the tank by excavating, emptying, cleaning, removing, and performing confirmatory soil sampling to ensure contamination from the tank does not exist on the Site.

2. Underground heating oil tanks

Since no closure documentation indicating that soil sampling was performed in the vicinity of the previously utilized underground heating oil tanks around the farmhouse, the two, 275-gallon and one, 1,000-gallon underground heating oil tanks are a Recognized Environmental Condition on the Site. EnviroSure recommends performing a geophysical survey to locate the tank outlines and performing confirmatory soil sampling to ensure contamination from the tanks does not exist on the Site.

3. Floor drain in the shed stalls

Since the regular use of petroleum products or hazardous material in the shed stalls represents a condition that poses a material threat of release to the environment, the floor drains in the shed stalls represent a Recognized Environmental Condition. EnviroSure recommends not performing any machinery maintenance or storing any hazardous or petroleum products in the shed stalls.

4. Buried manure trailer

The buried manure trailer does not pose a threat of release of petroleum products or hazardous chemicals to the environment and is not a Recognized Environmental Condition on the Site.

5. Properties with environmental conditions in the surrounding area

Based on the cleanup statuses and locations of properties with environmental concerns in relationship to the Site, the properties listed in the regulatory database report are not expected to have impacted the environmental integrity of the Site.

## 9.0 CONCLUSIONS

EnviroSure conducted a Phase I ESA of the Site in conformance with the scope and limitations of ASTM Practice E1527-13. Based on the results of this Phase I ESA and supported by the site reconnaissance, it is the opinion of EnviroSure that the Site contains Recognized Environmental Conditions that could subject the current property owners and prospective property purchasers to environmental liabilities:

1. Gasoline UST

The 500-gallon gasoline UST located on the western side of the main driveway is a Recognized Environmental Condition on the Site. EnviroSure recommends performing a geophysical survey to locate the tank outline then properly closing the tank with excavation, emptying, cleaning, removing, and performing confirmatory soil sampling to ensure contamination from the tank does not exist on the Site.

2. Underground heating oil tanks

Since no closure documentation indicating that soil sampling was performed in the vicinity of the previously utilized underground heating oil tanks around the farmhouse, the two, 275-gallon and one, 1,000-gallon underground heating oil tanks are a Recognized Environmental Condition on the Site. EnviroSure recommends performing a geophysical survey to locate the tank outlines and performing confirmatory soil sampling to ensure contamination from the tanks does not exist on the Site.

3. Floor drain in the shed stalls

Since the regular use of petroleum products or hazardous material in the shed stalls represents a condition that poses a material threat of release to the environment, the floor drains in the shed stalls represent a Recognized Environmental Condition. EnviroSure recommends not performing any machinery maintenance or storing any hazardous or petroleum products in the shed stalls.

## 10.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my knowledge and belief, I meet the definition of environmental professional as defined in §312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Limiting conditions, deviations, and data gaps, if applicable, are presented in **Section 1.5** of this report. My qualifications are presented in **Appendix H**.



---

Kevin Casey  
Environmental Professional



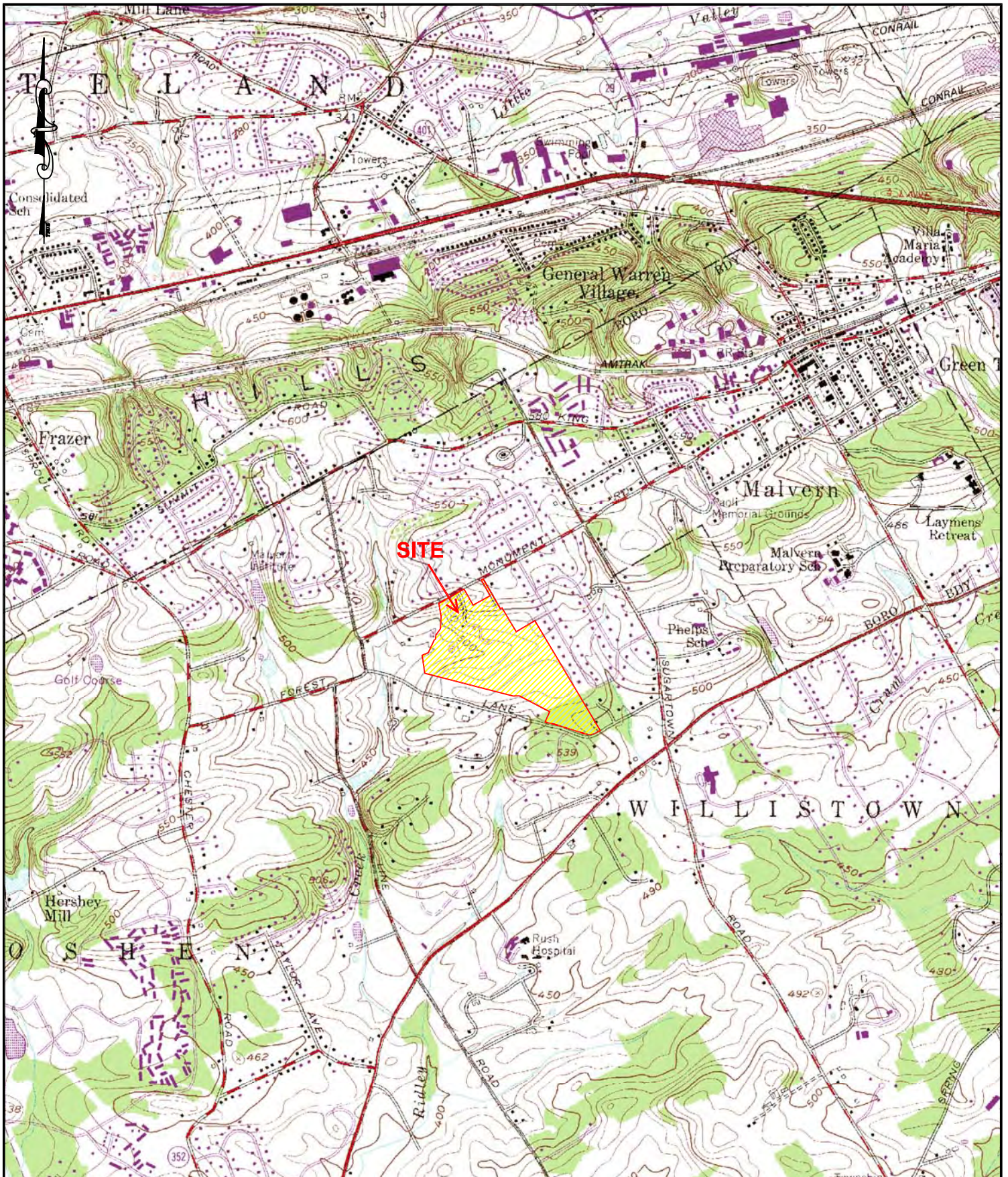
---

Christopher Zeliznak, P.G.  
Environmental Professional

## 11.0 REFERENCES

- American Society of Testing and Materials International (ASTM). *Standard Practice E1527-13 for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.
- Berg and others. (1980) Kauffman. (1999) *PaGEODE - PA Geological Survey Interactive Map* retrieved on May 22, 2017 from the World Wide Web: <http://www.dcnr.state.pa.us/learn/interactivemapresources/index.htm>
- Environmental Data Resources, Inc. (May 4, 2017). *Certified Sanborn® Map Report, 730 Monument Road, Willistown Township, PA 19355*.
- Environmental Data Resources, Inc. (May 9, 2017). *The EDR-City Directory Image Report, 730 Monument Road, Willistown Township, PA 19355*.
- Environmental Data Resources, Inc. (May 4, 2017). *The EDR Radius Map™ Report with Geocheck®, 730 Monument Road, Willistown Township, PA 19355*.
- Historic Aerials. 1951, 1965, 1968, 1992, 1999, 2002, 2004, 2008, 2010, and 2013 aerial photographs retrieved on May 15, 2017 from the World Wide Web: <http://www.historicaerials.com>.
- Historic Topographic Maps. 1906, 1910, 1914, 1925, 1928, 1931, 1938, 1943, 1944, 1957, 1962, 1969, 1975, 1984, and 2001 topographic maps retrieved on May 15, 2017 from the World Wide Web: <http://www.historicaerials.com>.
- Penn Pilot – Historical Aerial Photographs of Pennsylvania. September 18, 1937; June 7, 1958; and July 5, 1971 aerial photographs retrieved on May 15, 2017 from the World Wide Web: <http://www.pennpilot.psu.edu/>.
- USGS - Georeferenced 7.5-minute quadrangle topographic maps obtained from the Pennsylvania Spatial Data Clearinghouse (PASDA), Pennsylvania State University. (2015).

## FIGURES



1000 0 1000 2000  
GRAPHIC SCALE (FEET)

SOURCE:  
Malvern, Pennsylvania 7-1/2 minute topographic quadrangle,  
U.S. Geological Survey

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Integrity. Quality. Reliability.  
319 S. HIGH STREET, 1st FLOOR  
WEST CHESTER, PA  
19382

APPROVED BY	K.CASEY
DRAWN BY	R.MCCANN
PROJECT NO.	11442

TITLE

# **FIGURE 1** **SITE LOCATION** **MAP**

730 MONUMENT ROAD  
WILLISTOWN TOWNSHIP  
CHESTER COUNTY, PENNSYLVANIA

SCALE	1"=2000'	DATE	MAY 04, 2017	DRAWING NO.	11442
-------	----------	------	--------------	-------------	-------



250 0 250 500  
GRAPHIC SCALE (FEET)

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WEST CHESTER, PA  
19382

APPROVED BY K.CASEY

DRAWN BY R.MCCANN

PROJECT NO. 11442

TITLE

**FIGURE 2**

**SITE  
LAYOUT**

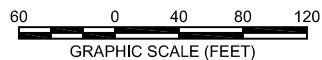
730 MONUMENT ROAD  
WILLISTOWN TOWNSHIP  
CHESTER COUNTY, PENNSYLVANIA

SCALE 1"=500' DATE MAY 04, 2017 DRAWING NO. 11442



#### LEGEND

- ① 500-Gallon Gas UST
- ② 275-Gallon Underground Heating Oil Tank
- ③ 1,000-Gallon Underground Heating Oil Tank
- ④ 5,500-Gallon Buried Manure Trailer
- ⛶ Potable Well
- - - Approximate Site boundary



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 WEST CHESTER, PA  
 19382

APPROVED BY K.CASEY

DRAWN BY R.MCCANN

PROJECT NO. 11442

TITLE


#### FIGURE 3 SITE CONDITIONS PLAN

730 MONUMENT ROAD  
 WILLISTOWN TOWNSHIP  
 CHESTER COUNTY, PENNSYLVANIA

SCALE 1"=120' DATE MAY 24, 2017 DRAWING NO. 11442

## **APPENDIX A**

### **HISTORICAL MAPS**



11442

730 Monument Road

Willistown Township, PA 19355

Inquiry Number: 4927686.3

May 04, 2017

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## Certified Sanborn® Map Report

05/04/17

**Site Name:**

11442  
730 Monument Road  
Willistown Township, PA 19355  
EDR Inquiry # 4927686.3

**Client Name:**

Envirosure Inc.  
319 S. High Street, 1st Floor  
West Chester, PA 19382  
Contact: Robin Mccann



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Envirosure Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

### Certified Sanborn Results:

**Certification #** 28C5-463B-9D01

**PO #** 11442

**Project** 11442

#### UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: 28C5-463B-9D01

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- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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## **APPENDIX B**

### **CITY DIRECTORY ABSTRACT**

**11442**

730 Monument Road  
Willistown Township, PA 19355

Inquiry Number: 4927686.5  
May 09, 2017

## The EDR-City Directory Image Report

## TABLE OF CONTENTS

### **SECTION**

**Executive Summary**

**Findings**

**City Directory Images**

***Thank you for your business.***

Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2013	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1999	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1986	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Criss-Cross Directory
1981	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Criss-Cross Directory
1976	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Criss-Cross Directory
1971	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Criss-Cross Directory

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## FINDINGS

### TARGET PROPERTY STREET

730 Monument Road  
Willistown Township, PA 19355

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

### MONUMENT RD

2013	pg A1	Cole Information Services
2008	pg A2	Cole Information Services
2003	pg A3	Cole Information Services
1999	pg A4	Cole Information Services
1995	pg A5	Cole Information Services
1992	pg A6	Cole Information Services
1986	pg A7	Cole Criss-Cross Directory
1981	pg A8	Cole Criss-Cross Directory
1976	pg A9	Cole Criss-Cross Directory
1971	pg A10	Cole Criss-Cross Directory

## FINDINGS

### CROSS STREETS

No Cross Streets Identified

## **City Directory Images**

**MONUMENT RD 2013**

707	CCL LABEL
	WILLIAM MCDOWELL
708	HUGH MURRAY
709	ANGELINE HECK
710	JOHN CRAWFORD
711	JOHN MCGUINNESS
712	KEVIN BORILLO
713	JEFFREY GREENE
715	RICHARD GREGORY
716	JAMES WALL
720	CURT SHAFFER
721	JAMES HARPER
722	CARMEN GRANTO
723	ROBERT RIGSBY
724	JOHN MAGANAS
725	ROBERT MATJE
726	OCCUPANT UNKNOWN
727	MICHAEL SCHUTZ
728	OCCUPANT UNKNOWN
729	TIMOTHY HART
730	WESLEY BOYLES
731	MANUEL TORRES
733	NICK BONELLI
735	GERALD SWOYER
736	ROBERT FRISCH
737	PETER MILLER
738	TODD BEAL
739	OCCUPANT UNKNOWN
740	DOUGLAS STRANG
741	ANTHONY FERNANDES
742	JOHN BELTZ
743	DJOERD HOEKSTRA
744	OCCUPANT UNKNOWN
747	SCOTT LASSER

**MONUMENT RD 2008**

707 MEADWESTVACO HEALTHCARE PACKING  
 MEBANE PACKAGING GROUP  
 MONZIE BELLA DEZIGNS  
 WILLIAM MCDOWELL  
 708 JAMES JONES  
 709 CATHERINE HECK  
 PASTICHE INTERIOR DESIGNS & DECORATI  
 710 JOHN CRAWFORD  
 711 JOHN MCGUINESS  
 712 JOSEPH BORILLO  
 713 JEFFREY GREENE  
 TECH & INFORMATION SERVICES INC  
 715 RICHARD GREGORY  
 716 JAMES WALL  
 720 CURT SHAFFER  
 721 JAMES HARPER  
 722 CARMEN GRANTO  
 723 ROBERT RIGSBY  
 724 JOHN MAGANAS  
 726 THOMAS OROURKE  
 727 MICHAEL SCHUTZ  
 728 EDWARD DRINKWATER  
 729 TIMOTHY HART  
 730 WESLEY BOYLES  
 731 MANUEL TORRES  
 733 NICK BONELLI  
 735 GERALD SWOYER  
 736 ROBERT FRISCH  
 737 PETER MILLER  
 738 TAMMIE BEAL  
 741 ANTHONY FERNANDES  
 742 JAMES BELTZ  
 SEAN FOX  
 743 DJOERD HOEKSTRA  
 744 NORRIS MANSER  
 747 WINFIELD LASSER

**MONUMENT RD 2003**

707	MEBANE PACKAGING GROUP
	WILLIAM MCDOWELL
708	JAMES JONES
710	JOHN CRAWFORD
711	JOHN MCGUINNESS
712	JOSEPH BORILLO
713	JEFFREY GREENE
715	RICHARD GREGORY
716	JAMES WALL
720	JAMES SHAFFER
721	MARTY O'DONNELL
723	ROBERT RIGSBY
724	JOHN MAGANAS
725	ROBERT MATJE
726	THOMAS O'ROURKE
727	CHARLES TURNER
729	JAMES DOERR
730	CHARLES SUTER
	LILIAN CHANCE
	WESLEY BOYLES
	WILLIAM LUCAS
731	DUTMOR CORP
	MANUEL TORRES
733	NICK BONELLI
735	GERALD SWOYER
736	DELPHIA FRISCH
737	PETER MILLER
738	TODD BEAL
739	PASQUALE DIPIANO
740	ANDREA STRANG
741	ANTHONY FERNANDES
742	JAMES BELTZ
743	DJOERD HOEKSTRA
744	JACK ROBINSON
747	JOHN WRIGHT

**MONUMENT RD 1999**

707	MEBANE PACKAGING GROUP
	MONICA MCDOWELL
708	JAMES JONES
709	C HECK
	JOHN HECK
710	JOHN CRAWFORD
711	JOHN MCGUINNESS
712	JOE BORILLO
713	JEFFREY GREENE
715	RICHARD GREGORY
716	JAMES WALL
717	A READ
	CHARLES READ
	JAMES KALJIAN
720	JAMES SHAFFER
721	GAIL O'DONNELL
	JAMES HARPER
723	ROBERT RIGSBY
724	JOHN MAGANAS
725	ROBERT MATJE
726	THOMAS OROURKE
727	CHARLES TURNER
729	G DOERR
730	BEN CHANCE
	EDWARD DRINKWATER
	GINA DAVIS
	PAT BRUNSTETTER
	WESLEY BOYLES
731	C MORBY
733	NICK BONELLI
736	DELPHIA FRISCH
737	ANNA KELLYKERNS
	WILLIAM KERNS
738	TODD BEAL
739	DI PIANO PASQUALE
	P DIPIANO
740	HARRY ROSENBERG
741	ANTHONY FERNANDES
742	JAMES BELTZ
743	MARY LAMB
744	JACK ROBINSON
747	RICHARD MERHAR

## MONUMENT RD 1995

707	MCDOWELL, WILLIAM J REXHAM PACKAGING
708	JONES, JAMES E OLIVIER FLEURY INC
709	HECK, JOHN N
710	CRAWFORD, JOHN F
711	MCGUINESS, JOHN F
712	BORILLO, JOE
713	GREENE, JEFFREY A
715	OCCUPANT UNKNOWNN
716	WALL, JAMES
717	KALJIAN, JAMES READ, A K
720	SHAFFER, JAMES B
721	HARPER, JAMES W JR HORVATH, JOSEPH J ODONNELL, GAIL
722	WEIST, CARL F
723	RIGSBY, ROBERT
724	MAGANAS, JOHN K
725	MATJE, ROBERT W
726	OROURKE, THOMAS J
727	TURNER, CHARLES W
729	DOERR, G
730	BOYLES, WESLEY BRUNSTETTER, PAT LUCAS, BILL
731	OCCUPANT UNKNOWNN
733	BONELLI, NICK
735	OCCUPANT UNKNOWNN
737	DR J B HORTON JR OCCUPANT UNKNOWNN
738	BEAL, TODD
739	DIPIANO, P
740	ROSENBERG, HARRY
742	BELTZ, JAMES
743	HOEKSTRA, DJOERD
744	ROBINSON, JACK
747	MERHAR, RICHARD L

**MONUMENT RD 1992**

707	MCDOWELL, WILLIAM J
708	JONES, JAMES E
709	HECK, JOHN N
710	CRAWFORD, JOHN F
712	BORILLO, JOE
713	GREENE, JEFFREY A
715	ZACCHEO, FLO
716	WALL, JAMES
717	KALJIAN, JAMES
	READ, A K
720	SHAFFER, JAMES B
722	WEIST, CARL F
723	RIGSBY, ROBERT
724	MAGANAS, JOHN K
725	MATJE, ROBERT W
726	OROURKE, THOMAS J
727	TURNER, CHARLES W
729	SCOTT, WILBUR
730	BRUNSTETTER, PAT
	CHANCE, BEN
	LUCAS, BILL
731	MORBY, RICHARD L
733	HEARD, ROSCOE R JR
737	DR J B HORTON JR
	HAFNER, ARTHUR B JR
738	SUTSR, CHARLES
739	DIPIANO, P
741	FERNANDES, ANTHONY
743	HOEKSTRA, DJOERD
744	ROBINSON, JACK
747	MERHAR, RICHARD L

## MONUMENT RD 1986

716		NP	
717	Robert R Landman	. . . 81	296-8304
720	James B Shaffer	. . . 69	647-2011
721	Joseph J Horvath	. . . 71	647-5235
722	Thomas J ORourke	. . . 77	647-4473
723	James R Small	. . . 72	644-4817
724	R M Sauter	. . . .	644-8774
725	Robert W Matje	. . . 76	644-1829
727	D R Montgomery	. . . 77	296-3161
729★	Dr B Bainbridge	. . . 81	644-8069
	★ Dr W J Bainbridge	. . . 73	644-8069
	★ Dr Roger L Groves	. . . 74	644-8069
730	Pat Brunstetter	. . . 84	644-4814
	Ben Chance	. . . 81	296-8637
	Margaret Chance	. . . 84	296-9894
	William Drinkwater	. . . 79	647-9145
	Bill Lucas	. . . 81	296-8637
731	R L Morby	. . . 81	644-3975
733	Roscoe R Heard Jr	. . . 70	644-1141
735	Gerald L Swoyer	. . . 73	296-8976
737★	Dr J B Horton Jr	. . . .	644-5937
741	E P Guilbeau	. . . .	644-8618
743	Djoerd Hoekstra	. . . 79	644-2004
744	Charles Suter	. . . 72	644-8385
750	Galen Joseph Wertz	. . . 80	647-0131

## MONUMENT RD 1981

716	R S Holden	.69	296-5462
717	Robert R Landman	.71	296-8304
720	James B Shaffer	.69	647-2011
721	Joseph J Horvath	.71	647-5235
722	Thomas J O'Rourke	.77	647-4473
723	James R Small	.72	644-4817
724	R M Sauter		644-8774
725	Robert W Matje	.76	644-1829
727	D R Montgomery	.77	296-3161
729	★Dr B Bainbridge		644-8069
	★Dr W J Bainbridge		644-8069
	★Dr Roger L Groves		644-8069
730	Ben Chance	.79	296-8637
	William Drinkwater	.79	647-9145
	Bill Lucas		296-8637
731	R L Morby		644-3975
733	Roscoe R Heard Jr	.70	644-1141
735	Gerald L Swoyer	.73	296-8976
737	★Dr J B Horton Jr		644-5937
741	E P Guilbeau		644-8618
	Edith P Pearson	.72	644-8618
743	Djoerd Hoekstra	.79	644-2004
744	Charles Suter	.72	644-8385
750	Galen Joseph Wertz	.80	647-0131

## MONUMENT RD 1976

	*LUMB WOODWORKING CO		641454
	*TEMPLET INDUSTRIES		#641454
716	R S HOLDEN	6	NI5966
717	EDWARD R ELLISON	2	NI4213
720	JAMES B SHAFFER	9	642011
721	JOSEPH J HORVATH	1	645235
722	ALBERT H KIRCHER	6	NI4186
723	JAMES R SMALL	2	NI4817
724	R M SAUTER		NI4774
725		NP	
727	K H ZABRISKIE JR		NI4952
729	*DR W J BAINBRIDGE		NI4069
	*DR ROGER L GROVES		NI4069
731	A M READING JR		647090
733	ROSCOE R HEARD JR	0	NI4141
735	GERALD L SWOYER	3	647375
737	DR JAS B HORTON JR		NI4937

## MONUMENT RD 1971

716	R S HOLDEN	6	NI45
717	ROBERT L SMITH	9	NI47
720	JAMES B SHAFFER	9	6472
721	JOSEPH J HORVATH	□6475	
722	ALBERT H KIRCHER	6	NI45
723	JAMES R SMALL	9	NI44
724	R M SAUTER		NI48
725	J E FOSTER JR	7	NI42
727	K H ZABRISKIE JR		NI43
729	THOMAS O WILLCOX		NI47
731	A M READING JR	4	6470
733	ROSCOE R HEARD JR	0	NI41
735	H WHITTLE	9	NI41
737	JAMES B HORTON JR		NI45
741	E P GUILBEAU		NI48
	E P PEARSON		NI48
743	L L WINDSTEIN	5	NI41
74A		ND	

## **APPENDIX C**

### **REGULATORY DATABASE REPORT**

**11442**

730 Monument Road  
Willistown Township, PA 19355

Inquiry Number: 4927686.2s  
May 04, 2017

## The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

730 MONUMENT ROAD  
WILLISTOWN TOWNSHIP, PA 19355

#### COORDINATES

Latitude (North):	40.0256360 - 40° 1' 32.28"
Longitude (West):	75.5335670 - 75° 32' 0.84"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	454470.6
UTM Y (Meters):	4430529.0
Elevation:	525 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5948149 MALVERN, PA
Version Date:	2013

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150815
Source:	USDA

# MAPPED SITES SUMMARY

Target Property Address:  
730 MONUMENT ROAD  
WILLISTOWN TOWNSHIP, PA 19355

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">1</a>	PHELPS SCH	PAOLI PIKE & SUGARTO	PA ARCHIVE UST	Lower	1109, 0.210, ESE
<a href="#">2</a>	PHELPS SCH	583 SUGARTOWN RD	PA LUST	Lower	1322, 0.250, ESE
<a href="#">3</a>	SAFETY-KLEEN/MALVERN	147 W KING ST	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA NonGen /..Higher	Higher	4875, 0.923, NE
<a href="#">4</a>	BISHOP TUBE	1 MALIN RD	PA SHWS, PA VCP, PA SPILLS	Lower	4884, 0.925, NNW

## EXECUTIVE SUMMARY

### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

#### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

#### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing  
SEMS..... Superfund Enterprise Management System

#### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-SQG..... RCRA - Small Quantity Generators  
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

#### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System  
US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls

#### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

#### ***State- and tribal - equivalent NPL***

PA HSCA..... HSCA Remedial Sites Listing

#### ***State and tribal landfill and/or solid waste disposal site lists***

PA SWF/LF..... Operating Facilities

## EXECUTIVE SUMMARY

### ***State and tribal leaking storage tank lists***

PA LAST..... Storage Tank Release Sites  
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land  
PA UNREG LTANKS..... Unregulated Tank Cases

### ***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing  
PA UST..... Listing of Pennsylvania Regulated Underground Storage Tanks  
PA AST..... Listing of Pennsylvania Regulated Aboveground Storage Tanks  
INDIAN UST..... Underground Storage Tanks on Indian Land

### ***State and tribal institutional control / engineering control registries***

PA ENG CONTROLS..... Engineering Controls Site Listing  
PA INST CONTROL..... Institutional Controls Site Listing  
PA AUL..... Environmental Covenants Listing

### ***State and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

### ***State and tribal Brownfields sites***

PA BROWNFIELDS..... Brownfields Sites

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

PA HIST LF..... Abandoned Landfill Inventory  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands  
ODI..... Open Dump Inventory  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
IHS OPEN DUMPS..... Open Dumps on Indian Land

### ***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL..... Delisted National Clandestine Laboratory Register  
US CDL..... National Clandestine Laboratory Register

### ***Local Lists of Registered Storage Tanks***

PA ARCHIVE AST..... Archived Aboveground Storage Tank Sites

### ***Local Land Records***

LIENS 2..... CERCLA Lien Information

## EXECUTIVE SUMMARY

PA ACT 2-DEED..... Act 2-Deed Acknowledgment Sites

### ***Records of Emergency Release Reports***

HMIRS..... Hazardous Materials Information Reporting System

### ***Other Ascertainable Records***

FUDS..... Formerly Used Defense Sites  
DOD..... Department of Defense Sites  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
US FIN ASSUR..... Financial Assurance Information  
EPA WATCH LIST..... EPA WATCH LIST  
TSCA..... Toxic Substances Control Act  
TRIS..... Toxic Chemical Release Inventory System  
SSTS..... Section 7 Tracking Systems  
ROD..... Records Of Decision  
RMP..... Risk Management Plans  
RAATS..... RCRA Administrative Action Tracking System  
PRP..... Potentially Responsible Parties  
PADS..... PCB Activity Database System  
ICIS..... Integrated Compliance Information System  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
MLTS..... Material Licensing Tracking System  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
PCB TRANSFORMER..... PCB Transformer Registration Database  
RADINFO..... Radiation Information Database  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
INDIAN RESERV..... Indian Reservations  
FUSRAP..... Formerly Utilized Sites Remedial Action Program  
UMTRA..... Uranium Mill Tailings Sites  
LEAD SMELTERS..... Lead Smelter Sites  
US AIRS..... Aerometric Information Retrieval System Facility Subsystem  
US MINES..... Mines Master Index File  
ABANDONED MINES..... Abandoned Mines  
FINDS..... Facility Index System/Facility Registry System  
DOCKET HWC..... Hazardous Waste Compliance Docket Listing  
ECHO..... Enforcement & Compliance History Information  
UXO..... Unexploded Ordnance Sites  
FUELS PROGRAM..... EPA Fuels Program Registered Listing  
PA AIRS..... Permit and Emissions Inventory Data  
PA DRYCLEANERS..... Drycleaner Facility Locations  
PA MANIFEST..... Manifest Information  
PA MINES..... MINES  
PA NPDES..... NPDES Permit Listing  
PA UIC..... Underground Injection Wells

### **EDR HIGH RISK HISTORICAL RECORDS**

### ***EDR Exclusive Records***

EDR MGP..... EDR Proprietary Manufactured Gas Plants

## EXECUTIVE SUMMARY

EDR Hist Auto..... EDR Exclusive Historic Gas Stations  
EDR Hist Cleaner..... EDR Exclusive Historic Dry Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

PA RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List  
PA RGA LF..... Recovered Government Archive Solid Waste Facilities List  
PA RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>SAFETY-KLEEN/MALVERN</i></b>	<b><i>147 W KING ST</i></b>	<b><i>NE 1/2 - 1 (0.923 mi.)</i></b>	<b><i>3</i></b>	<b><i>13</i></b>

#### ***State- and tribal - equivalent NPL***

PA SHWS: The State Hazardous Waste Cleanup Act Site List includes sites listed on PA Priority List, sites delisted from PA Priority List, Interim Response Completed Sites, and Sites being Studied or Response being Planned.

A review of the PA SHWS list, as provided by EDR, and dated 10/18/2016 has revealed that there is 1 PA SHWS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>BISHOP TUBE</i></b>	<b><i>1 MALIN RD</i></b>	<b><i>NNW 1/2 - 1 (0.925 mi.)</i></b>	<b><i>4</i></b>	<b><i>22</i></b>

## EXECUTIVE SUMMARY

Site Id: 593661  
Facility Id: 617200

### ***State and tribal leaking storage tank lists***

PA LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Resources' List of Confirmed Releases.

A review of the PA LUST list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 PA LUST site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PHELPS SCH Facility Id: 585818	583 SUGARTOWN RD	ESE 1/4 - 1/2 (0.250 mi.)	2	9

### **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Lists of Registered Storage Tanks***

PA ARCHIVE UST: The list includes tanks storing highly hazardous substances that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

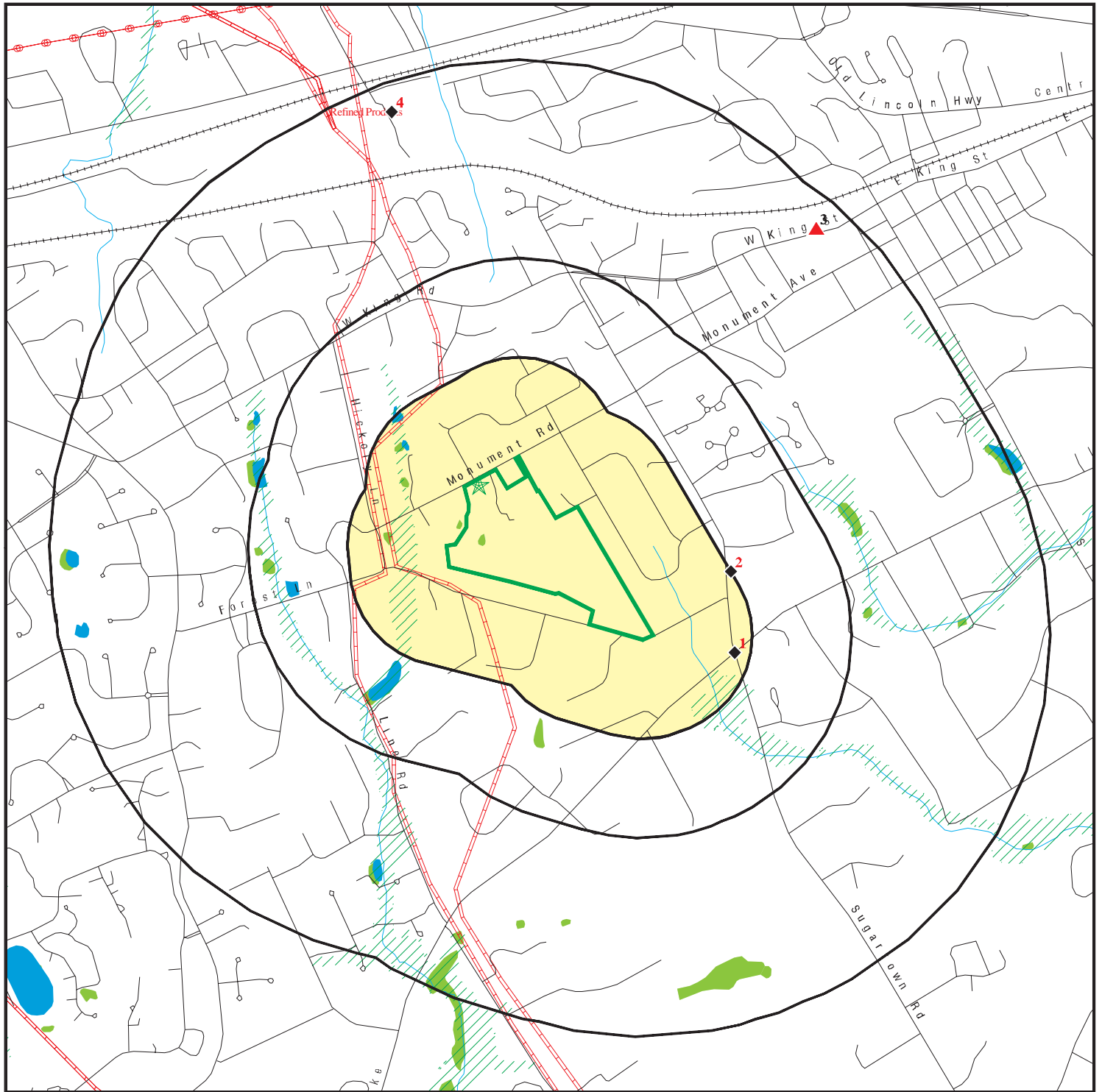
A review of the PA ARCHIVE UST list, as provided by EDR, and dated 04/10/2017 has revealed that there is 1 PA ARCHIVE UST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PHELPS SCH Status: CURRENTLY IN USE Facility Id: 15-07627	PAOLI PIKE & SUGARTO	ESE 1/8 - 1/4 (0.210 mi.)	1	8

## EXECUTIVE SUMMARY

There were no unmapped sites in this report.

# OVERVIEW MAP - 4927686.2S



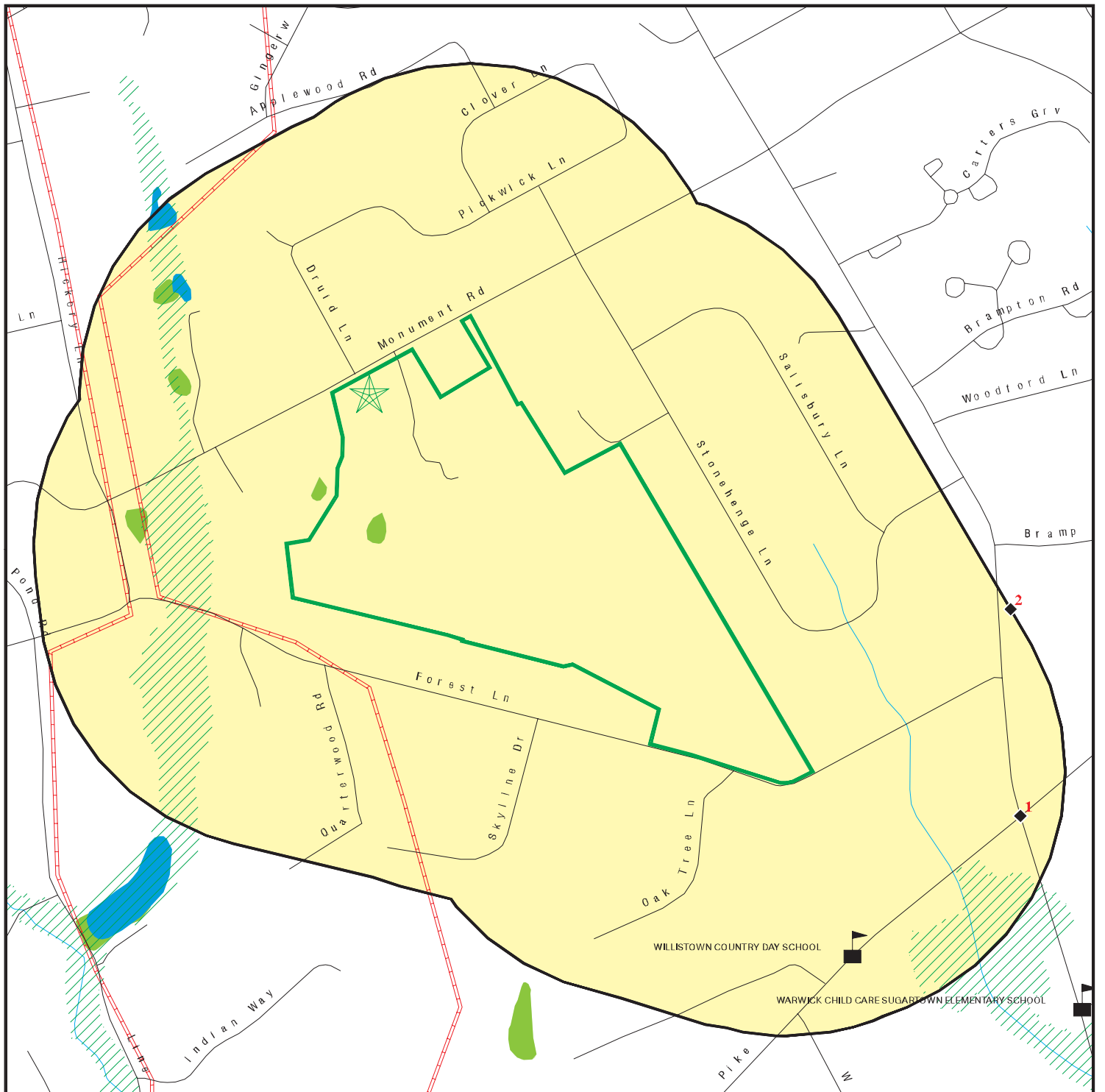
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

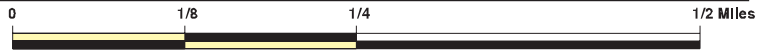
SITE NAME: 11442  
 ADDRESS: 730 Monument Road  
 Willistown Township PA 19355  
 LAT/LONG: 40.025636 / 75.533567

CLIENT: EnviroSure Inc.  
 CONTACT: Robin Mccann  
 INQUIRY #: 4927686.2s  
 DATE: May 04, 2017 5:07 pm

# DETAIL MAP - 4927686.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 11442  
 ADDRESS: 730 Monument Road  
 Willistown Township PA 19355  
 LAT/LONG: 40.025636 / 75.533567

CLIENT: EnviroSure Inc.  
 CONTACT: Robin Mccann  
 INQUIRY #: 4927686.2s  
 DATE: May 04, 2017 5:09 pm

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	1	NR	1
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent NPL</i></b>								
PA SHWS	1.000		0	0	0	1	NR	1
PA HSCA	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
PA SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
PA LAST	0.500		0	0	0	NR	NR	0
PA LUST	0.500		0	0	1	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PA UNREG LTANKS	0.500		0	0	0	NR	NR	0
<b>State and tribal registered storage tank lists</b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
PA UST	0.250		0	0	NR	NR	NR	0
PA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
PA ENG CONTROLS	0.500		0	0	0	NR	NR	0
PA INST CONTROL	0.500		0	0	0	NR	NR	0
PA AUL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
PA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
PA BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
PA HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
PA ARCHIVE UST	0.250		0	1	NR	NR	NR	1
PA ARCHIVE AST	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
PA ACT 2-DEED	0.500		0	0	0	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
PA SPILLS	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><i>Other Ascertainable Records</i></b>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.500		0	0	0	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PA AIRS	TP		NR	NR	NR	NR	NR	0
PA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
PA MANIFEST	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
PA MINES	0.250		0	0	NR	NR	NR	0
PA NPDES	TP		NR	NR	NR	NR	NR	0
PA UIC	TP		NR	NR	NR	NR	NR	0

### **EDR HIGH RISK HISTORICAL RECORDS**

#### ***EDR Exclusive Records***

EDR MGP	1.000		0	0	0	0	NR	0
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## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<b><u>EDR RECOVERED GOVERNMENT ARCHIVES</u></b>								
<b><i>Exclusive Recovered Govt. Archives</i></b>								
PA RGA HWS	TP		NR	NR	NR	NR	NR	0
PA RGA LF	TP		NR	NR	NR	NR	NR	0
PA RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	1	1	2	0	4

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

1  
ESE  
1/8-1/4  
0.210 mi.  
1109 ft.

**PHELPS SCH**  
**PAOLI PIKE & SUGARTOWN RD**  
**MALVERN, PA 19355**

PA ARCHIVE UST

S111114846  
N/A

**Relative:**  
**Lower**

ARCHIVE UST:

**Actual:**  
**485 ft.**

Facility Id: 15-07627  
Site ID: Not reported  
Municipality: Not reported  
Client Date: Not reported  
Owner Id: 2462  
Owner Name: PHELPS SCH  
Owner Address: PAOLI PIKE & SUGARTOWN RD  
Owner Address 2: PO BOX 476  
Owner City,St,Zip: MALVERN, PA 19355-0476  
Owner Phone: 2156441754  
Owner County Code: 15  
Resp Party Name: Not reported  
RP Address: Not reported  
RP Address 2: Not reported  
RP City,St,Zip: Not reported  
Region Code Name: Not reported  
Regulated Expire Date: Not reported  
  
Tank Sequence #: 001  
Tank Id: 15495  
Status: CURRENTLY IN USE  
Status Code End Date: Not reported  
Capacity: 7500  
Substance: HEATING OIL  
Tank Substance End Date: Not reported  
Install Date: Not reported  
Tank Code: Not reported  
Inspection Code: Not reported  
Last Inspection: Not reported  
Substance Type: Not reported  
CASRN for Hazardous Substances: Not reported  
Chemical Name: Not reported  
Other Information Regarding The Tank Substance: Not reported  
Undeliverable Address Ind.: Not reported  
Contact Name: Not reported  
Company: Not reported

Tank Sequence #: 002  
Tank Id: 15496  
Status: CURRENTLY IN USE  
Status Code End Date: Not reported  
Capacity: 7000  
Substance: HEATING OIL  
Tank Substance End Date: Not reported  
Install Date: Not reported  
Tank Code: Not reported  
Inspection Code: Not reported  
Last Inspection: Not reported  
Substance Type: Not reported  
CASRN for Hazardous Substances: Not reported  
Chemical Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PHELPS SCH (Continued)**

**S111114846**

Other Information Regarding The Tank Substance: Not reported  
Undeliverable Address Ind.: Not reported  
Contact Name: Not reported  
Company: Not reported

Tank Sequence #: 003  
Tank Id: 15497  
Status: CURRENTLY IN USE  
Status Code End Date: Not reported  
Capacity: 7000  
Substance: HEATING OIL  
Tank Substance End Date: Not reported  
Install Date: Not reported  
Tank Code: Not reported  
Inspection Code: Not reported  
Last Inspection: Not reported  
Substance Type: Not reported  
CASRN for Hazardous Substances: Not reported  
Chemical Name: Not reported  
Other Information Regarding The Tank Substance: Not reported  
Undeliverable Address Ind.: Not reported  
Contact Name: Not reported  
Company: Not reported

Tank Sequence #: 004  
Tank Id: 15498  
Status: CURRENTLY IN USE  
Status Code End Date: Not reported  
Capacity: 4000  
Substance: HEATING OIL  
Tank Substance End Date: Not reported  
Install Date: Not reported  
Tank Code: Not reported  
Inspection Code: Not reported  
Last Inspection: Not reported  
Substance Type: Not reported  
CASRN for Hazardous Substances: Not reported  
Chemical Name: Not reported  
Other Information Regarding The Tank Substance: Not reported  
Undeliverable Address Ind.: Not reported  
Contact Name: Not reported  
Company: Not reported

**2**  
**ESE**  
**1/4-1/2**  
**0.250 mi.**  
**1322 ft.**

**PHELPS SCH**  
**583 SUGARTOWN RD**  
**MALVERN, PA 19355**

**PA LUST S115867474**  
**N/A**

**Relative:**  
**Lower**

**LUST:**

**Actual:**  
**517 ft.**

Region: EP SE Rgnl Off Norristown  
Municipality: Willistown Twp  
Facility Id: 585818  
Facility Type: Underground Storage Tank Containing Petroleum  
**Facility Status: Cleanup Completed**  
Status Date: 10/24/2016

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PHELPS SCH (Continued)**

**S115867474**

Confirmed Date: 07/10/2000  
Program Other Id: 15-07627  
Client: PHELPS SCH  
Incident Id: 47090  
Incident Desc: 15-07627 PHELPS SCH  
Suspect Date: Not reported  
Source Of Notification: INSTL  
Release Discovered: CLOS  
Source Cause Of Release: TANK  
Tank: Not reported  
Impact Desc: Ground Water  
Substance: Unleaded Gasoline  
CAS RN: 71-43-2  
Chemical: BENZENE  
Comments: Not reported  
Horizontal Ref Datum: Not reported  
Altitude Datum: Not reported  
Latitude: Not reported  
Longitude: Not reported

Region: EP SE Rgnl Off Norristown  
Municipality: Willistown Twp  
Facility Id: 585818  
Facility Type: Underground Storage Tank Containing Petroleum  
**Facility Status: Cleanup Completed**  
Status Date: 10/24/2016  
Confirmed Date: 07/10/2000  
Program Other Id: 15-07627  
Client: PHELPS SCH  
Incident Id: 47090  
Incident Desc: 15-07627 PHELPS SCH  
Suspect Date: Not reported  
Source Of Notification: INSTL  
Release Discovered: CLOS  
Source Cause Of Release: TANK  
Tank: Not reported  
Impact Desc: Ground Water  
Substance: Unleaded Gasoline  
CAS RN: 100-41-4  
Chemical: ETHYL BENZENE  
Comments: Not reported  
Horizontal Ref Datum: Not reported  
Altitude Datum: Not reported  
Latitude: Not reported  
Longitude: Not reported

Region: EP SE Rgnl Off Norristown  
Municipality: Willistown Twp  
Facility Id: 585818  
Facility Type: Underground Storage Tank Containing Petroleum  
**Facility Status: Cleanup Completed**  
Status Date: 10/24/2016  
Confirmed Date: 07/10/2000  
Program Other Id: 15-07627  
Client: PHELPS SCH  
Incident Id: 47090  
Incident Desc: 15-07627 PHELPS SCH

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PHELPS SCH (Continued)**

**S115867474**

Suspect Date: Not reported  
Source Of Notification: INSTL  
Release Discovered: CLOS  
Source Cause Of Release: TANK  
Tank: Not reported  
Impact Desc: Ground Water  
Substance: Unleaded Gasoline  
CAS RN: 1634-04-4  
Chemical: METHYL TERT-BUTYL ETHER (MTBE)  
Comments: Not reported  
Horizontal Ref Datum: Not reported  
Altitude Datum: Not reported  
Latitude: Not reported  
Longitude: Not reported

Region: EP SE Rgnl Off Norristown  
Municipality: Willistown Twp  
Facility Id: 585818  
Facility Type: Underground Storage Tank Containing Petroleum  
**Facility Status: Cleanup Completed**  
Status Date: 10/24/2016  
Confirmed Date: 07/10/2000  
Program Other Id: 15-07627  
Client: PHELPS SCH  
Incident Id: 47090  
Incident Desc: 15-07627 PHELPS SCH  
Suspect Date: Not reported  
Source Of Notification: INSTL  
Release Discovered: CLOS  
Source Cause Of Release: TANK  
Tank: Not reported  
Impact Desc: Ground Water  
Substance: Unleaded Gasoline  
CAS RN: 91-20-3  
Chemical: NAPHTHALENE  
Comments: Not reported  
Horizontal Ref Datum: Not reported  
Altitude Datum: Not reported  
Latitude: Not reported  
Longitude: Not reported

Region: EP SE Rgnl Off Norristown  
Municipality: Willistown Twp  
Facility Id: 585818  
Facility Type: Underground Storage Tank Containing Petroleum  
**Facility Status: Cleanup Completed**  
Status Date: 10/24/2016  
Confirmed Date: 07/10/2000  
Program Other Id: 15-07627  
Client: PHELPS SCH  
Incident Id: 47090  
Incident Desc: 15-07627 PHELPS SCH  
Suspect Date: Not reported  
Source Of Notification: INSTL  
Release Discovered: CLOS  
Source Cause Of Release: TANK  
Tank: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PHELPS SCH (Continued)**

**S115867474**

Impact Desc: Ground Water  
Substance: Unleaded Gasoline  
CAS RN: 108-88-3  
Chemical: TOLUENE  
Comments: Not reported  
Horizontal Ref Datum: Not reported  
Altitude Datum: Not reported  
Latitude: Not reported  
Longitude: Not reported

Region: EP SE Rgnl Off Norristown  
Municipality: Willistown Twp  
Facility Id: 585818  
Facility Type: Underground Storage Tank Containing Petroleum  
**Facility Status: Cleanup Completed**  
Status Date: 10/24/2016  
Confirmed Date: 07/10/2000  
Program Other Id: 15-07627  
Client: PHELPS SCH  
Incident Id: 47090  
Incident Desc: 15-07627 PHELPS SCH  
Suspect Date: Not reported  
Source Of Notification: INSTL  
Release Discovered: CLOS  
Source Cause Of Release: TANK  
Tank: Not reported  
Impact Desc: Ground Water  
Substance: Unleaded Gasoline  
CAS RN: 1330-20-7  
Chemical: XYLENES (TOTAL)  
Comments: Not reported  
Horizontal Ref Datum: Not reported  
Altitude Datum: Not reported  
Latitude: Not reported  
Longitude: Not reported

Region: EP SE Rgnl Off Norristown  
Municipality: Willistown Twp  
Facility Id: 585818  
Facility Type: Underground Storage Tank Containing Petroleum  
**Facility Status: Cleanup Completed**  
Status Date: 10/24/2016  
Confirmed Date: 07/10/2000  
Program Other Id: 15-07627  
Client: PHELPS SCH  
Incident Id: 47090  
Incident Desc: 15-07627 PHELPS SCH  
Suspect Date: Not reported  
Source Of Notification: INSTL  
Release Discovered: CLOS  
Source Cause Of Release: TANK  
Tank: Not reported  
Impact Desc: Soil  
Substance: Unleaded Gasoline  
CAS RN: 1634-04-4  
Chemical: METHYL TERT-BUTYL ETHER (MTBE)  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PHELPS SCH (Continued)**

**S115867474**

Horizontal Ref Datum: Not reported  
Altitude Datum: Not reported  
Latitude: Not reported  
Longitude: Not reported

**3  
NE  
1/2-1  
0.923 mi.  
4875 ft.**

**SAFETY-KLEEN/MALVERN 2-139-02  
147 W KING ST  
MALVERN, PA 19355**

**SEMS-ARCHIVE  
CORRACTS  
RCRA-TSDF  
RCRA NonGen / NLR  
2020 COR ACTION  
NY MANIFEST**

**1000224140  
PAD099081812**

**Relative:  
Higher**

SEMS-ARCHIVE:

**Actual:  
555 ft.**

Site ID: 303497  
EPA ID: PAD099081812  
Federal Facility: N  
NPL: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**Following information was gathered from the prior CERCLIS update completed in 10/2013:**

Site ID: 0303497  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Program Priority:

Description: RCRA Deferral - New Decision

**CERCLIS-NFRAP Assessment History:**

Action: DISCOVERY  
Date Started: / /  
Date Completed: 09/09/88  
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 07/14/89  
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 01/23/96  
Priority Level: Not reported

**CORRACTS:**

EPA ID: PAD099081812  
EPA Region: 3  
Area Name: ENTIRE FACILITY  
Actual Date: 19911201  
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAFETY-KLEEN/MALVERN 2-139-02 (Continued)**

**1000224140**

EPA ID: PAD099081812  
EPA Region: 3  
Area Name: ENTIRE FACILITY  
Actual Date: 20070307  
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes,  
Migration of Contaminated Groundwater Under Control has been verified  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: PAD099081812  
EPA Region: 3  
Area Name: ENTIRE FACILITY  
Actual Date: 20070307  
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human  
Exposures Under Control has been verified  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: PAD099081812  
EPA Region: 3  
Area Name: ENTIRE FACILITY  
Actual Date: 20070608  
Action: CA380 - Date For Public Notice On Proposed Remedy  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: PAD099081812  
EPA Region: 3  
Area Name: ENTIRE FACILITY  
Actual Date: 20030811  
Action: CA100 - RFI Imposition  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: PAD099081812  
EPA Region: 3  
Area Name: ENTIRE FACILITY  
Actual Date: 20070716  
Action: CA900NC  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: PAD099081812  
EPA Region: 3  
Area Name: ENTIRE FACILITY  
Actual Date: 20070716  
Action: CA800YE  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: PAD099081812

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAFETY-KLEEN/MALVERN 2-139-02 (Continued)**

**1000224140**

EPA Region: 3  
Area Name: ENTIRE FACILITY  
Actual Date: 20070716  
Action: CA550NR  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: PAD099081812  
EPA Region: 3  
Area Name: ENTIRE FACILITY  
Actual Date: 20070716  
Action: CA999NF - Corrective Action Process Terminated, No Further Action  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: PAD099081812  
EPA Region: 3  
Area Name: SITE WIDE-GROUNDWATER  
Actual Date: 20070716  
Action: CA550NR  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: PAD099081812  
EPA Region: 3  
Area Name: ENTIRE FACILITY  
Actual Date: 20070716  
Action: CA400 - Date For Remedy Selection (CM Imposed)  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: PAD099081812  
EPA Region: 3  
Area Name: SITE WIDE-SOILS  
Actual Date: 20070716  
Action: CA550NR  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

**RCRA-TSDF:**

Date form received by agency: 09/15/2009  
Facility name: SAFETY-KLEEN/MALVERN 2-139-02  
Facility address: 147 W KING ST  
MALVERN, PA 19355  
EPA ID: PAD099081812  
Contact: Not reported  
Contact address: Not reported  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 03

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAFETY-KLEEN/MALVERN 2-139-02 (Continued)**

**1000224140**

Land type: Other land type  
Classification: TSDF  
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: Yes  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 12/09/2004  
Site name: SAFETY KLEEN CORP 2-139-02  
Classification: Not a generator, verified

Date form received by agency: 09/05/2001  
Site name: SAFETY KLEEN CORP 2-139-02  
Classification: Not a generator, verified

Date form received by agency: 08/17/1994  
Site name: SAFETY KLEEN CORP 2-139-02  
Classification: Not a generator, verified

Date form received by agency: 08/17/1994  
Site name: SAFETY KLEEN CORP 2-139-02  
Classification: Not a generator, verified

Date form received by agency: 07/09/1985  
Site name: SAFETY KLEEN CORP 2-139-02  
Classification: Not a generator, verified

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: F002  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAFETY-KLEEN/MALVERN 2-139-02 (Continued)**

**1000224140**

F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F004  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 08/18/1980

Site name: SAFETY KLEEN CORP 2-139-02

Classification: Not a generator, verified

. Waste code: D000  
. Waste name: Not Defined

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: F001  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAFETY-KLEEN/MALVERN 2-139-02 (Continued)**

**1000224140**

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F004

. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005

. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

**Corrective Action Summary:**

Event date: 12/01/1991

Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.

Event date: 08/11/2003

Event: RFI Imposition

Event date: 03/07/2007

Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Event date: 03/07/2007

Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAFETY-KLEEN/MALVERN 2-139-02 (Continued)**

**1000224140**

Event date: 06/08/2007  
Event: Date For Public Notice On Proposed Remedy

Event date: 07/16/2007  
Event: CA900NC

Event date: 07/16/2007  
Event: CA800YE

Event date: 07/16/2007  
Event: Corrective Action Process Terminated, No Further Action

Event date: 07/16/2007  
Event: Date For Remedy Selection (CM Imposed)

Event date: 07/16/2007  
Event: CA550NR

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: TSD - Closure/Post-Closure  
Date violation determined: 09/14/1987  
Date achieved compliance: 03/23/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/24/1987  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 04/22/1986  
Date achieved compliance: 03/23/1992  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 04/28/1986  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 09/11/2009  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 08/11/2008  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAFETY-KLEEN/MALVERN 2-139-02 (Continued)**

**1000224140**

Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	09/25/2007
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	03/08/2006
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	04/25/2005
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	09/27/2004
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	08/15/2002
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	09/05/2001
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	08/17/1994
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	11/04/1992
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	03/23/1992
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAFETY-KLEEN/MALVERN 2-139-02 (Continued)**

**1000224140**

Evaluation date: 09/14/1987  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - Closure/Post-Closure  
Date achieved compliance: 03/23/1992  
Evaluation lead agency: State

Evaluation date: 04/22/1986  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 03/23/1992  
Evaluation lead agency: State

**2020 COR ACTION:**

EPA ID: PAD099081812  
Region: 3  
Action: Remedy Constructed

**NY MANIFEST:**

Country: USA  
EPA ID: PAD099081812  
Facility Status: Not reported  
Location Address 1: REAR 147 W KING ST  
Code: BP  
Location Address 2: Not reported  
Total Tanks: Not reported  
Location City: MALVERN  
Location State: PA  
Location Zip: 19355  
Location Zip 4: Not reported

**NY MANIFEST:**

EPAID: PAD099081812  
Mailing Name: SAFETY-KLEEN CORP 2-139-02  
Mailing Contact: SIMPSON JEFFREY ENVIUR EN  
Mailing Address 1: REAR 147 WEST KING STREET  
Mailing Address 2: Not reported  
Mailing City: MALVERN  
Mailing State: PA  
Mailing Zip: 19355  
Mailing Zip 4: Not reported  
Mailing Country: USA  
Mailing Phone: 3126978460

**NY MANIFEST:**

Document ID: PAO6363490  
Manifest Status: K  
seq: Not reported  
Year: 1983  
Trans1 State ID: AH0172  
Trans2 State ID: Not reported  
Generator Ship Date: 03/10/1983  
Trans1 Recv Date: 03/10/1983  
Trans2 Recv Date: / /  
TSD Site Recv Date: 03/11/1983  
Part A Recv Date: 05/04/2003  
Part B Recv Date: 05/04/2003  
Generator EPA ID: PAD099081812

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAFETY-KLEEN/MALVERN 2-139-02 (Continued)**

**1000224140**

Trans1 EPA ID: NJD069039626  
Trans2 EPA ID: Not reported  
TSDF ID 1: NJD069039626  
TSDF ID 2: Not reported  
Manifest Tracking Number: Not reported  
Import Indicator: Not reported  
Export Indicator: Not reported  
Discr Quantity Indicator: Not reported  
Discr Type Indicator: Not reported  
Discr Residue Indicator: Not reported  
Discr Partial Reject Indicator: Not reported  
Discr Full Reject Indicator: Not reported  
Manifest Ref Number: Not reported  
Alt Facility RCRA ID: Not reported  
Alt Facility Sign Date: Not reported  
MGMT Method Type Code: Not reported  
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Waste Code: Not reported  
Quantity: 00348  
Units: G - Gallons (liquids only)\* (8.3 pounds)  
Number of Containers: 058  
Container Type: DM - Metal drums, barrels  
Handling Method: Not reported  
Specific Gravity: 100

**4**  
**NNW**  
**1/2-1**  
**0.925 mi.**  
**4884 ft.**

**BISHOP TUBE**  
**1 MALIN RD**  
**MALVERN, PA 19355**

**PA SHWS**  
**PA VCP**  
**PA SPILLS**

**S108055569**  
**N/A**

**Relative:**  
**Lower**

SHWS:  
Region: EP SE Rgnl Off Norristown  
Facility Id: 617200  
Municipality: East Whiteland Twp  
Site: BISHOP TUBE  
Site Id: 593661  
Program Other Id: 1-15-925-131  
HOR Ref Datum: UNK  
Client Id: 95707  
Client Owner: ONEILL PROP GROUP  
Initiation Id: 28878  
Initiation Type: HSCA  
Notice Date: 03/16/2010  
List Date: Not reported  
Delist Date: Not reported  
Activity Id: 29676  
Media Id: 732269  
Media Name: BISHOP TUBE-SOIL  
Media Type: Soil Media  
Substance Code: CLSOL  
Substance: Chlorinated Solvents  
CASRN: 156-59-2

**Actual:**  
**408 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BISHOP TUBE (Continued)**

**S108055569**

Chemical: DICHLOROETHYLENE, CIS-1,2-  
Address Remarks: Not reported  
Response Name: SITE CHARACTERIZATION  
Response Action: HSFI - HSCA Further Investigation - Site Study  
Start Date: 05/03/2000  
Finish Date: Not reported  
RJD Date: 03/14/2000  
Altitude Datum: Not reported  
Latitude: 40.040988  
Longitude: -75.539136

Region: EP SE Rgnl Off Norristown  
Facility Id: 617200  
Municipality: East Whiteland Twp  
Site: BISHOP TUBE  
Site Id: 593661  
Program Other Id: 1-15-925-131  
HOR Ref Datum: UNK  
Client Id: 95707  
Client Owner: ONEILL PROP GROUP  
Initiation Id: 28878  
Initiation Type: HSCA  
Notice Date: 03/16/2010  
List Date: Not reported  
Delist Date: Not reported  
Activity Id: 29676  
Media Id: 732269  
Media Name: BISHOP TUBE-SOIL  
Media Type: Soil Media  
Substance Code: CLSOL  
Substance: Chlorinated Solvents  
CASRN: 79-01-6  
Chemical: TRICHLOROETHYLENE (TCE)  
Address Remarks: Not reported  
Response Name: SITE CHARACTERIZATION  
Response Action: HSFI - HSCA Further Investigation - Site Study  
Start Date: 05/03/2000  
Finish Date: Not reported  
RJD Date: 03/14/2000  
Altitude Datum: Not reported  
Latitude: 40.040988  
Longitude: -75.539136

Region: EP SE Rgnl Off Norristown  
Facility Id: 617200  
Municipality: East Whiteland Twp  
Site: BISHOP TUBE  
Site Id: 593661  
Program Other Id: 1-15-925-131  
HOR Ref Datum: UNK  
Client Id: 95707  
Client Owner: ONEILL PROP GROUP  
Initiation Id: 28878  
Initiation Type: HSCA  
Notice Date: 03/16/2010  
List Date: Not reported  
Delist Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BISHOP TUBE (Continued)**

**S108055569**

Activity Id: 29676  
Media Id: 757430  
Media Name: BISHOP TUPE GW  
Media Type: Groundwater Media  
Substance Code: CLSOL  
Substance: Chlorinated Solvents  
CASRN: Not reported  
Chemical: Not reported  
Address Remarks: Not reported  
Response Name: SITE CHARACTERIZATION  
Response Action: HSFI - HSCA Further Investigation - Site Study  
Start Date: 05/03/2000  
Finish Date: Not reported  
RJD Date: 03/14/2000  
Altitude Datum: Not reported  
Latitude: 40.040988  
Longitude: -75.539136

Region: EP SE Rgnl Off Norristown  
Facility Id: 617200  
Municipality: East Whiteland Twp  
Site: BISHOP TUBE  
Site Id: 593661  
Program Other Id: 1-15-925-131  
HOR Ref Datum: UNK  
Client Id: 95707  
Client Owner: ONEILL PROP GROUP  
Initiation Id: 28878  
Initiation Type: HSCA  
Notice Date: 03/16/2010  
List Date: Not reported  
Delist Date: Not reported  
Activity Id: 29676  
Media Id: 757430  
Media Name: BISHOP TUPE GW  
Media Type: Groundwater Media  
Substance Code: INORG  
Substance: Inorganics  
CASRN: 16984-48-8  
Chemical: FLUORIDE  
Address Remarks: Not reported  
Response Name: SITE CHARACTERIZATION  
Response Action: HSFI - HSCA Further Investigation - Site Study  
Start Date: 05/03/2000  
Finish Date: Not reported  
RJD Date: 03/14/2000  
Altitude Datum: Not reported  
Latitude: 40.040988  
Longitude: -75.539136

Region: EP SE Rgnl Off Norristown  
Facility Id: 617200  
Municipality: East Whiteland Twp  
Site: BISHOP TUBE  
Site Id: 593661  
Program Other Id: 1-15-925-131  
HOR Ref Datum: UNK

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BISHOP TUBE (Continued)**

**S108055569**

Client Id: 95707  
Client Owner: ONEILL PROP GROUP  
Initiation Id: 28878  
Initiation Type: HSCA  
Notice Date: 03/16/2010  
List Date: Not reported  
Delist Date: Not reported  
Activity Id: 29676  
Media Id: 757430  
Media Name: BISHOP TUPE GW  
Media Type: Groundwater Media  
Substance Code: INORG  
Substance: Inorganics  
CASRN: 7440-02-0  
Chemical: NICKEL  
Address Remarks: Not reported  
Response Name: SITE CHARACTERIZATION  
Response Action: HSFI - HSCA Further Investigation - Site Study  
Start Date: 05/03/2000  
Finish Date: Not reported  
RJD Date: 03/14/2000  
Altitude Datum: Not reported  
Latitude: 40.040988  
Longitude: -75.539136

Region: EP SE Rgnl Off Norristown  
Facility Id: 617200  
Municipality: East Whiteland Twp  
Site: BISHOP TUBE  
Site Id: 593661  
Program Other Id: 1-15-925-131  
HOR Ref Datum: UNK  
Client Id: 95707  
Client Owner: ONEILL PROP GROUP  
Initiation Id: 28878  
Initiation Type: HSCA  
Notice Date: 03/16/2010  
List Date: Not reported  
Delist Date: Not reported  
Activity Id: 37682  
Media Id: 732269  
Media Name: BISHOP TUBE-SOIL  
Media Type: Soil Media  
Substance Code: Not reported  
Substance: Not reported  
CASRN: Not reported  
Chemical: Not reported  
Address Remarks: Not reported  
Response Name: HOT SPOT REMEDY  
Response Action: HSIRP - HSCA Interim Response Action -- PROMPT  
Start Date: 03/13/2007  
Finish Date: Not reported  
RJD Date: 03/14/2000  
Altitude Datum: Not reported  
Latitude: 40.040988  
Longitude: -75.539136

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BISHOP TUBE (Continued)**

**S108055569**

Region: EP SE Rgnl Off Norristown  
Facility Id: 617200  
Municipality: East Whiteland Twp  
Site: BISHOP TUBE  
Site Id: 593661  
Program Other Id: 1-15-925-131  
HOR Ref Datum: UNK  
Client Id: 95707  
Client Owner: ONEILL PROP GROUP  
Initiation Id: 28878  
Initiation Type: HSCA  
Notice Date: 03/16/2010  
List Date: Not reported  
Delist Date: Not reported  
Activity Id: 37682  
Media Id: 757430  
Media Name: BISHOP TUPE GW  
Media Type: Groundwater Media  
Substance Code: CLSQL  
Substance: Chlorinated Solvents  
CASRN: Not reported  
Chemical: Not reported  
Address Remarks: Not reported  
Response Name: HOT SPOT REMEDY  
Response Action: HSIRP - HSCA Interim Response Action -- PROMPT  
Start Date: 03/13/2007  
Finish Date: Not reported  
RJD Date: 03/14/2000  
Altitude Datum: Not reported  
Latitude: 40.040988  
Longitude: -75.539136

**VCP:**

**Activity:**

Activity ID: 617200,

**Cleanup Records:**

Municipality: East Whiteland Twp  
Region: Southeast Region  
Category Desc: Chlorinated Solvents  
Type: Complete Sites  
LRP Activity Number: 35907  
Remediation: Statewide Health Standard  
Activity: NO  
Date Approved: 07/29/2011  
Date Received: Not reported  
Date Nonuse: Not reported  
ICS Code: Not reported  
Media: Soil  
Latitude: 40.040988  
Longitude: -75.539136

**SPILLS:**

Id No: 243983  
Latitude: 40 2 27.4776  
Longitude: -75 32 22.2432

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BISHOP TUBE (Continued)**

**S108055569**

Material Involved: Unknown  
Substance: Not reported  
Date Received: 02/18/2006  
Municipality: East Whiteland Twp  
Description: Trash fire in srtairwell of unsecured bldg

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/05/2016	Source: EPA
Date Data Arrived at EDR: 01/05/2017	Telephone: N/A
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 29	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/05/2016	Source: EPA
Date Data Arrived at EDR: 01/05/2017	Telephone: N/A
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 29	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ***Federal Delisted NPL site list***

#### Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/05/2016	Source: EPA
Date Data Arrived at EDR: 01/05/2017	Telephone: N/A
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 29	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Quarterly

### ***Federal CERCLIS list***

#### FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 04/07/2017
Number of Days to Update: 92	Next Scheduled EDR Contact: 07/17/2017
	Data Release Frequency: Varies

#### SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/10/2016	Source: EPA
Date Data Arrived at EDR: 10/20/2016	Telephone: 800-424-9346
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Quarterly

### ***Federal CERCLIS NFRAP site list***

#### SEMS-ARCHIVE: Superfund Enterprise Management System Archive

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/10/2016	Source: EPA
Date Data Arrived at EDR: 10/20/2016	Telephone: 800-424-9346
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 04/25/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Quarterly

### ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016	Source: EPA
Date Data Arrived at EDR: 12/28/2016	Telephone: 800-424-9346
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 800-438-2474
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

### ***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 800-438-2474
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 800-438-2474
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

### RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 800-438-2474
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Varies

### ***Federal institutional controls / engineering controls registries***

#### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/28/2016	Source: Department of the Navy
Date Data Arrived at EDR: 01/04/2017	Telephone: 843-820-7326
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 02/13/2017
Number of Days to Update: 93	Next Scheduled EDR Contact: 05/29/2017
	Data Release Frequency: Varies

#### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/15/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/29/2016	Telephone: 703-603-0695
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 02/28/2017
Number of Days to Update: 66	Next Scheduled EDR Contact: 06/12/2017
	Data Release Frequency: Varies

#### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/15/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/29/2016	Telephone: 703-603-0695
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 02/28/2017
Number of Days to Update: 66	Next Scheduled EDR Contact: 06/12/2017
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016

Date Data Arrived at EDR: 09/29/2016

Date Made Active in Reports: 11/11/2016

Number of Days to Update: 43

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 03/29/2017

Next Scheduled EDR Contact: 07/10/2017

Data Release Frequency: Annually

## ***State- and tribal - equivalent NPL***

SHWS: Hazardous Sites Cleanup Act Site List

The Hazardous Sites Cleanup Act Site List includes sites listed on PA Priority List, sites delisted from PA Priority List, Interim Response Completed sites, and Sites Being Studied or Response Being Planned.

Date of Government Version: 10/18/2016

Date Data Arrived at EDR: 10/20/2016

Date Made Active in Reports: 11/22/2016

Number of Days to Update: 33

Source: Department Environmental Protection

Telephone: 717-783-7816

Last EDR Contact: 04/19/2017

Next Scheduled EDR Contact: 07/31/2017

Data Release Frequency: Semi-Annually

HSCA: HSCA Remedial Sites Listing

A list of remedial sites on the PA Priority List. This is the PA state equivalent of the federal NPL superfund list.

Date of Government Version: 12/31/2015

Date Data Arrived at EDR: 10/25/2016

Date Made Active in Reports: 11/22/2016

Number of Days to Update: 28

Source: Department of Environmental Protection

Telephone: 717-783-7816

Last EDR Contact: 04/19/2017

Next Scheduled EDR Contact: 07/31/2017

Data Release Frequency: Varies

## ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF: Operating Facilities

The listing includes Municipal Waste Landfills, Construction/Demolition Waste Landfills and Waste-to-Energy Facilities.

Date of Government Version: 11/21/2016

Date Data Arrived at EDR: 11/23/2016

Date Made Active in Reports: 01/24/2017

Number of Days to Update: 62

Source: Department of Environmental Protection

Telephone: 717-787-7564

Last EDR Contact: 02/22/2017

Next Scheduled EDR Contact: 06/05/2017

Data Release Frequency: Semi-Annually

## ***State and tribal leaking storage tank lists***

LAST: Storage Tank Release Sites

Leaking Aboveground Storage Tank Incident Reports.

Date of Government Version: 12/12/2016

Date Data Arrived at EDR: 12/15/2016

Date Made Active in Reports: 01/24/2017

Number of Days to Update: 40

Source: Department of Environmental Protection

Telephone: 717-783-7509

Last EDR Contact: 03/15/2017

Next Scheduled EDR Contact: 06/26/2017

Data Release Frequency: Semi-Annually

LUST: Storage Tank Release Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/12/2016  
Date Data Arrived at EDR: 12/15/2016  
Date Made Active in Reports: 01/24/2017  
Number of Days to Update: 40

Source: Department of Environmental Protection  
Telephone: 717-783-7509  
Last EDR Contact: 03/15/2017  
Next Scheduled EDR Contact: 06/26/2017  
Data Release Frequency: Semi-Annually

### INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016  
Date Data Arrived at EDR: 04/27/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 37

Source: EPA, Region 5  
Telephone: 312-886-7439  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Varies

### INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016  
Date Data Arrived at EDR: 01/08/2016  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 41

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Quarterly

### INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016  
Date Data Arrived at EDR: 04/27/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 37

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Quarterly

### INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015  
Date Data Arrived at EDR: 10/23/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 118

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Quarterly

### INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015  
Date Data Arrived at EDR: 02/12/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 112

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Varies

### INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015  
Date Data Arrived at EDR: 02/19/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 105

Source: EPA Region 6  
Telephone: 214-665-6597  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-8677
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/28/2017
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/28/2017
Number of Days to Update: 67	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

UNREG LTANKS: Unregulated Tank Cases

Leaking storage tank cases from unregulated storage tanks.

Date of Government Version: 04/12/2002	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/14/2003	Telephone: 717-783-7509
Date Made Active in Reports: 08/29/2003	Last EDR Contact: 08/14/2003
Number of Days to Update: 15	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### **State and tribal registered storage tank lists**

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 04/11/2017
Number of Days to Update: 55	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Varies

UST: Listing of Pennsylvania Regulated Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 12/01/2016	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/15/2016	Telephone: 717-772-5599
Date Made Active in Reports: 01/23/2017	Last EDR Contact: 03/15/2017
Number of Days to Update: 39	Next Scheduled EDR Contact: 06/26/2017
	Data Release Frequency: Varies

AST: Listing of Pennsylvania Regulated Aboveground Storage Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 12/01/2016	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/15/2016	Telephone: 717-772-5599
Date Made Active in Reports: 01/23/2017	Last EDR Contact: 03/15/2017
Number of Days to Update: 39	Next Scheduled EDR Contact: 06/26/2017
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/07/2016  
Date Data Arrived at EDR: 01/08/2016  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 41

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Quarterly

### INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016  
Date Data Arrived at EDR: 04/27/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 37

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Quarterly

### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016  
Date Data Arrived at EDR: 02/05/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 119

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Quarterly

### INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015  
Date Data Arrived at EDR: 02/04/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 120

Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Semi-Annually

### INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014  
Date Data Arrived at EDR: 11/25/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 65

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Varies

### INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015  
Date Data Arrived at EDR: 11/13/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 52

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Varies

### INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/05/2016  
Date Data Arrived at EDR: 04/29/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 35

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Semi-Annually

### INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015  
Date Data Arrived at EDR: 10/29/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 67

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Varies

### **State and tribal institutional control / engineering control registries**

#### ENG CONTROLS: Engineering Controls Site Listing

Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/15/2008  
Date Data Arrived at EDR: 05/16/2008  
Date Made Active in Reports: 06/12/2008  
Number of Days to Update: 27

Source: Department of Environmental Protection  
Telephone: 717-783-9470  
Last EDR Contact: 04/18/2017  
Next Scheduled EDR Contact: 07/31/2017  
Data Release Frequency: No Update Planned

#### AUL: Environmental Covenants Listing

A listing of sites with environmental covenants.

Date of Government Version: 10/18/2016  
Date Data Arrived at EDR: 10/19/2016  
Date Made Active in Reports: 11/22/2016  
Number of Days to Update: 34

Source: Department of Environmental Protection  
Telephone: 717-783-7509  
Last EDR Contact: 04/19/2017  
Next Scheduled EDR Contact: 07/31/2017  
Data Release Frequency: Varies

#### INST CONTROL: Institutional Controls Site Listing

Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/15/2008  
Date Data Arrived at EDR: 05/16/2008  
Date Made Active in Reports: 06/12/2008  
Number of Days to Update: 27

Source: Department of Environmental Protection  
Telephone: 717-783-9470  
Last EDR Contact: 04/18/2017  
Next Scheduled EDR Contact: 07/31/2017  
Data Release Frequency: No Update Planned

### **State and tribal voluntary cleanup sites**

#### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/19/2008  
Number of Days to Update: 27

Source: EPA, Region 7  
Telephone: 913-551-7365  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015  
Date Data Arrived at EDR: 09/29/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 142

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 03/27/2017  
Next Scheduled EDR Contact: 07/10/2017  
Data Release Frequency: Varies

### VCP: Voluntary Cleanup Program Sites

The VCP listings included Completed Sites, Sites in Progress and Act 2 Non-Use Aquifer Determinations Sites. Formerly known as the Act 2, the Land Recycling Program encourages the voluntary cleanup and reuse of contaminated commercial and industrial sites.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/13/2016  
Date Made Active in Reports: 11/22/2016  
Number of Days to Update: 40

Source: Department of Environmental Protection  
Telephone: 717-783-2388  
Last EDR Contact: 01/12/2017  
Next Scheduled EDR Contact: 04/24/2017  
Data Release Frequency: Semi-Annually

### ***State and tribal Brownfields sites***

#### BROWNFIELDS: Brownfields Sites

Brownfields are generally defined as abandoned or underused industrial or commercial properties where redevelopment is complicated by actual or perceived environmental contamination. Brownfields vary in size, location, age and past use. They can range from a small, abandoned corner gas station to a large, multi-acre former manufacturing plant that has been closed for years.

Date of Government Version: 10/18/2016  
Date Data Arrived at EDR: 10/20/2016  
Date Made Active in Reports: 11/22/2016  
Number of Days to Update: 33

Source: Department of Environmental Protection  
Telephone: 717-783-1566  
Last EDR Contact: 04/19/2017  
Next Scheduled EDR Contact: 07/31/2017  
Data Release Frequency: Varies

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/02/2017  
Date Data Arrived at EDR: 03/02/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 36

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 03/02/2017  
Next Scheduled EDR Contact: 07/03/2017  
Data Release Frequency: Semi-Annually

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

#### HIST LF INACTIVE: Inactive Facilities List

A listing of inactive non-hazardous facilities (10000 & 300000 series). This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP's name was the Department of Environmental Resources.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/20/1994  
Date Data Arrived at EDR: 07/12/2005  
Date Made Active in Reports: 08/11/2005  
Number of Days to Update: 30

Source: Department of Environmental Protection  
Telephone: 717-787-7381  
Last EDR Contact: 06/21/2005  
Next Scheduled EDR Contact: 12/19/2005  
Data Release Frequency: No Update Planned

### HIST LF INVENTORY: Facility Inventory

A listing of solid waste facilities. This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP's name was the Department of Environmental Resources.

Date of Government Version: 06/02/1999  
Date Data Arrived at EDR: 07/12/2005  
Date Made Active in Reports: 08/11/2005  
Number of Days to Update: 30

Source: Department of Environmental Protection  
Telephone: 717-787-7381  
Last EDR Contact: 09/19/2005  
Next Scheduled EDR Contact: 12/19/2005  
Data Release Frequency: No Update Planned

### HIST LF ALI: Abandoned Landfill Inventory

The report provides facility information recorded in the Pennsylvania Department of Environmental Protection ALI database. Some of this information has been abstracted from old records and may not accurately reflect the current conditions and status at these facilities

Date of Government Version: 01/04/2005  
Date Data Arrived at EDR: 01/04/2005  
Date Made Active in Reports: 02/04/2005  
Number of Days to Update: 31

Source: Department of Environmental Protection  
Telephone: 717-787-7564  
Last EDR Contact: 11/26/2012  
Next Scheduled EDR Contact: 03/11/2013  
Data Release Frequency: Varies

### INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 05/01/2017  
Next Scheduled EDR Contact: 08/14/2017  
Data Release Frequency: Varies

### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 04/24/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: No Update Planned

### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2014  
Date Data Arrived at EDR: 08/06/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service  
Telephone: 301-443-1452  
Last EDR Contact: 01/30/2017  
Next Scheduled EDR Contact: 05/08/2017  
Data Release Frequency: Varies

### **Local Lists of Hazardous waste / Contaminated Sites**

#### **US HIST CDL: National Clandestine Laboratory Register**

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/30/2016  
Date Data Arrived at EDR: 01/05/2017  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 36

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 02/28/2017  
Next Scheduled EDR Contact: 06/12/2017  
Data Release Frequency: No Update Planned

#### **US CDL: Clandestine Drug Labs**

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/30/2016  
Date Data Arrived at EDR: 12/05/2016  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 67

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 02/28/2017  
Next Scheduled EDR Contact: 06/12/2017  
Data Release Frequency: Quarterly

### **Local Lists of Registered Storage Tanks**

#### **ARCHIVE UST: Archived Underground Storage Tank Sites**

The list includes tanks storing highly hazardous substances that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 04/10/2017  
Date Data Arrived at EDR: 04/10/2017  
Date Made Active in Reports: 04/14/2017  
Number of Days to Update: 4

Source: Department of Environmental Protection  
Telephone: 717-772-5599  
Last EDR Contact: 05/01/2017  
Next Scheduled EDR Contact: 06/26/2017  
Data Release Frequency: Varies

#### **ARCHIVE AST: Archived Aboveground Storage Tank Sites**

The list includes aboveground tanks with a capacity greater than 21,000 gallons that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 04/10/2017  
Date Data Arrived at EDR: 04/10/2017  
Date Made Active in Reports: 04/14/2017  
Number of Days to Update: 4

Source: Department of Environmental Protection  
Telephone: 717-772-5599  
Last EDR Contact: 05/01/2017  
Next Scheduled EDR Contact: 06/26/2017  
Data Release Frequency: Varies

### **Local Land Records**

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/18/2014	Telephone: 202-564-6023
Date Made Active in Reports: 04/24/2014	Last EDR Contact: 04/21/2017
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

### ACT 2-DEED: Act 2-Deed Acknowledgment Sites

This listing pertains to sites where the Department has approved a cleanup requiring a deed acknowledgment under Act 2. This list includes sites remediated to a non-residential Statewide health standard (Section 303(g)); all sites demonstrating attainment of a Site-specific standard (Section 304(m)); and sites being remediated as a special industrial area (Section 305(g)). Persons who remediated a site to a standard that requires a deed acknowledgment shall comply with the requirements of the Solid Waste Management Act or the Hazardous Sites Cleanup Act, as referenced in Act 2. These statutes require a property description section in the deed concerning the hazardous substance disposal on the site. The location of disposed hazardous substances and a description of the type of hazardous substances disposed on the site shall be included in the deed acknowledgment. A deed acknowledgment is required at the time of conveyance of the property.

Date of Government Version: 04/23/2010	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/28/2010	Telephone: 717-783-9470
Date Made Active in Reports: 04/30/2010	Last EDR Contact: 07/22/2011
Number of Days to Update: 2	Next Scheduled EDR Contact: 11/07/2011
	Data Release Frequency: Varies

### **Records of Emergency Release Reports**

#### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 12/28/2016	Telephone: 202-366-4555
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 03/29/2017
Number of Days to Update: 37	Next Scheduled EDR Contact: 07/10/2017
	Data Release Frequency: Annually

#### SPILLS: State spills

A listing of hazardous material incidents.

Date of Government Version: 10/11/2016	Source: DEP, Emergency Response
Date Data Arrived at EDR: 11/04/2016	Telephone: 717-787-5715
Date Made Active in Reports: 11/22/2016	Last EDR Contact: 04/14/2017
Number of Days to Update: 18	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Varies

### **Other Ascertainable Records**

#### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2016	Telephone: 800-438-2474
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 05/02/2017
Number of Days to Update: 44	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 02/24/2017
Number of Days to Update: 97	Next Scheduled EDR Contact: 06/05/2017
	Data Release Frequency: Varies

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/14/2017
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Semi-Annually

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/14/2017
Number of Days to Update: 339	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: N/A

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 02/03/2017
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/29/2017
	Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 10/11/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/16/2016	Telephone: 202-566-1917
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 02/15/2017
Number of Days to Update: 79	Next Scheduled EDR Contact: 05/29/2017
	Data Release Frequency: Quarterly

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2013  
Date Data Arrived at EDR: 03/21/2014  
Date Made Active in Reports: 06/17/2014  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 02/03/2017  
Next Scheduled EDR Contact: 05/22/2017  
Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013  
Date Data Arrived at EDR: 03/03/2015  
Date Made Active in Reports: 03/09/2015  
Number of Days to Update: 6

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 02/10/2017  
Next Scheduled EDR Contact: 05/22/2017  
Data Release Frequency: Varies

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012  
Date Data Arrived at EDR: 01/15/2015  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 14

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 03/24/2017  
Next Scheduled EDR Contact: 07/03/2017  
Data Release Frequency: Every 4 Years

### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 11/24/2015  
Date Made Active in Reports: 04/05/2016  
Number of Days to Update: 133

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 02/24/2017  
Next Scheduled EDR Contact: 06/05/2017  
Data Release Frequency: Annually

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 04/26/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Annually

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013  
Date Data Arrived at EDR: 12/12/2013  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 74

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 03/06/2017  
Next Scheduled EDR Contact: 06/19/2017  
Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/09/2017	Telephone: 202-564-8600
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 04/21/2017
Number of Days to Update: 57	Next Scheduled EDR Contact: 08/07/2017
	Data Release Frequency: Varies

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

### PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 04/25/2017
Number of Days to Update: 3	Next Scheduled EDR Contact: 05/22/2017
	Data Release Frequency: Quarterly

### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016	Source: EPA
Date Data Arrived at EDR: 04/28/2016	Telephone: 202-566-0500
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 04/10/2017
Number of Days to Update: 127	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Annually

### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 04/10/2017
Number of Days to Update: 79	Next Scheduled EDR Contact: 07/24/2017
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 02/17/2017  
Next Scheduled EDR Contact: 06/05/2017  
Data Release Frequency: Quarterly

### FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 02/17/2017  
Next Scheduled EDR Contact: 06/05/2017  
Data Release Frequency: Quarterly

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016  
Date Data Arrived at EDR: 09/08/2016  
Date Made Active in Reports: 10/21/2016  
Number of Days to Update: 43

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 02/03/2017  
Next Scheduled EDR Contact: 05/22/2017  
Data Release Frequency: Quarterly

### COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 03/06/2017  
Next Scheduled EDR Contact: 06/19/2017  
Data Release Frequency: Varies

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014  
Date Data Arrived at EDR: 09/10/2014  
Date Made Active in Reports: 10/20/2014  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 03/06/2017  
Next Scheduled EDR Contact: 06/19/2017  
Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011  
Date Data Arrived at EDR: 10/19/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 83

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 04/28/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Varies

### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/04/2017  
Date Data Arrived at EDR: 01/06/2017  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 35

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 04/06/2017  
Next Scheduled EDR Contact: 07/17/2017  
Data Release Frequency: Quarterly

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 05/02/2017  
Next Scheduled EDR Contact: 08/14/2017  
Data Release Frequency: Varies

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2016  
Date Data Arrived at EDR: 11/18/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 03/27/2017  
Next Scheduled EDR Contact: 07/10/2017  
Data Release Frequency: Varies

### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 02/24/2015  
Date Made Active in Reports: 09/30/2015  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 02/22/2017  
Next Scheduled EDR Contact: 06/05/2017  
Data Release Frequency: Biennially

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 07/14/2015  
Date Made Active in Reports: 01/10/2017  
Number of Days to Update: 546

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 04/14/2017  
Next Scheduled EDR Contact: 07/24/2017  
Data Release Frequency: Semi-Annually

### FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016  
Date Data Arrived at EDR: 12/27/2016  
Date Made Active in Reports: 02/17/2017  
Number of Days to Update: 52

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 02/03/2017  
Next Scheduled EDR Contact: 05/22/2017  
Data Release Frequency: Varies

### UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010  
Date Data Arrived at EDR: 10/07/2011  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 146

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 02/21/2017  
Next Scheduled EDR Contact: 06/05/2017  
Data Release Frequency: Varies

### LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016  
Date Data Arrived at EDR: 01/05/2017  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 36

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 04/21/2017  
Next Scheduled EDR Contact: 07/17/2017  
Data Release Frequency: Varies

### LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001  
Date Data Arrived at EDR: 10/27/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 36

Source: American Journal of Public Health  
Telephone: 703-305-6451  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 03/07/2017  
Next Scheduled EDR Contact: 07/10/2017  
Data Release Frequency: Annually

### US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 03/07/2017  
Next Scheduled EDR Contact: 04/10/2017  
Data Release Frequency: Annually

### US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017  
Date Data Arrived at EDR: 02/28/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 02/28/2017  
Next Scheduled EDR Contact: 06/12/2017  
Data Release Frequency: Semi-Annually

### US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 03/03/2017  
Next Scheduled EDR Contact: 06/12/2017  
Data Release Frequency: Varies

### US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 03/03/2017  
Next Scheduled EDR Contact: 06/12/2017  
Data Release Frequency: Varies

### ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017  
Date Data Arrived at EDR: 03/17/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 21

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 03/13/2017  
Next Scheduled EDR Contact: 06/26/2017  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/15/2016	Source: EPA
Date Data Arrived at EDR: 09/07/2016	Telephone: (215) 814-5000
Date Made Active in Reports: 11/11/2016	Last EDR Contact: 04/07/2017
Number of Days to Update: 65	Next Scheduled EDR Contact: 06/19/2017
	Data Release Frequency: Quarterly

### DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/03/2016	Telephone: 202-564-0527
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 02/24/2017
Number of Days to Update: 91	Next Scheduled EDR Contact: 06/12/2017
	Data Release Frequency: Varies

### UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 04/17/2017
Number of Days to Update: 67	Next Scheduled EDR Contact: 07/31/2017
	Data Release Frequency: Varies

### ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 12/11/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/20/2016	Telephone: 202-564-2280
Date Made Active in Reports: 02/17/2017	Last EDR Contact: 03/21/2017
Number of Days to Update: 59	Next Scheduled EDR Contact: 07/03/2017
	Data Release Frequency: Quarterly

### FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/21/2016	Source: EPA
Date Data Arrived at EDR: 11/22/2016	Telephone: 800-385-6164
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 02/22/2017
Number of Days to Update: 73	Next Scheduled EDR Contact: 06/05/2017
	Data Release Frequency: Quarterly

### AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

Date of Government Version: 12/31/2014	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/11/2016	Telephone: 717-787-9702
Date Made Active in Reports: 04/11/2016	Last EDR Contact: 03/27/2017
Number of Days to Update: 60	Next Scheduled EDR Contact: 07/10/2017
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### DRYCLEANERS: Drycleaner Facility Locations

A listing of drycleaner facility locations.

Date of Government Version: 11/23/2016  
Date Data Arrived at EDR: 11/23/2016  
Date Made Active in Reports: 01/26/2017  
Number of Days to Update: 64

Source: Department of Environmental Protection  
Telephone: 717-787-9702  
Last EDR Contact: 03/20/2017  
Next Scheduled EDR Contact: 07/03/2017  
Data Release Frequency: Varies

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 07/22/2016  
Date Made Active in Reports: 11/22/2016  
Number of Days to Update: 123

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 04/18/2017  
Next Scheduled EDR Contact: 07/31/2017  
Data Release Frequency: Annually

### MINES: Abandoned Mine Land Inventory

This data set portrays the approximate location of Abandoned Mine Land Problem Areas containing public health, safety, and public welfare problems created by past coal mining.

Date of Government Version: 10/03/2016  
Date Data Arrived at EDR: 10/27/2016  
Date Made Active in Reports: 11/22/2016  
Number of Days to Update: 26

Source: PASDA  
Telephone: 814-863-0104  
Last EDR Contact: 04/26/2017  
Next Scheduled EDR Contact: 08/07/2017  
Data Release Frequency: Semi-Annually

### NPDES: NPDES Permit Listing

A listing of facilities with an NPDES permit.

Date of Government Version: 12/05/2016  
Date Data Arrived at EDR: 12/08/2016  
Date Made Active in Reports: 01/24/2017  
Number of Days to Update: 47

Source: Department of Environmental Protection  
Telephone: 717-787-9642  
Last EDR Contact: 03/10/2017  
Next Scheduled EDR Contact: 06/19/2017  
Data Release Frequency: Varies

### UIC: Underground Injection Wells

A listing of underground injection well locations.

Date of Government Version: 12/20/2016  
Date Data Arrived at EDR: 12/21/2016  
Date Made Active in Reports: 01/24/2017  
Number of Days to Update: 34

Source: Department of Environmental Protection  
Telephone: 717-783-7209  
Last EDR Contact: 03/22/2017  
Next Scheduled EDR Contact: 07/03/2017  
Data Release Frequency: Varies

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

### EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

### ***Exclusive Recovered Govt. Archives***

#### RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department Environmental Protection in Pennsylvania.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/30/2013  
Number of Days to Update: 182

Source: Department Environmental Protection  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department Environmental Protection in Pennsylvania.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/10/2014  
Number of Days to Update: 193

Source: Department Environmental Protection  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department Environmental Protection in Pennsylvania.

Date of Government Version: N/A

Date Data Arrived at EDR: 07/01/2013

Date Made Active in Reports: 12/30/2013

Number of Days to Update: 182

Source: Department Environmental Protection

Telephone: N/A

Last EDR Contact: 06/01/2012

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013

Date Data Arrived at EDR: 08/19/2013

Date Made Active in Reports: 10/03/2013

Number of Days to Update: 45

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375

Last EDR Contact: 11/11/2016

Next Scheduled EDR Contact: 02/27/2017

Data Release Frequency: No Update Planned

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015

Date Data Arrived at EDR: 09/29/2016

Date Made Active in Reports: 01/03/2017

Number of Days to Update: 96

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 04/11/2017

Next Scheduled EDR Contact: 07/24/2017

Data Release Frequency: Annually

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/30/2017

Date Data Arrived at EDR: 02/01/2017

Date Made Active in Reports: 02/13/2017

Number of Days to Update: 12

Source: Department of Environmental Conservation

Telephone: 518-402-8651

Last EDR Contact: 05/03/2017

Next Scheduled EDR Contact: 08/14/2017

Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013

Date Data Arrived at EDR: 06/19/2015

Date Made Active in Reports: 07/15/2015

Number of Days to Update: 26

Source: Department of Environmental Management

Telephone: 401-222-2797

Last EDR Contact: 02/21/2017

Next Scheduled EDR Contact: 06/05/2017

Data Release Frequency: Annually

### VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/07/2016  
Date Data Arrived at EDR: 11/18/2016  
Date Made Active in Reports: 01/06/2017  
Number of Days to Update: 49

Source: Department of Environmental Conservation  
Telephone: 802-241-3443  
Last EDR Contact: 04/17/2017  
Next Scheduled EDR Contact: 07/31/2017  
Data Release Frequency: Annually

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 04/14/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 50

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 03/13/2017  
Next Scheduled EDR Contact: 06/26/2017  
Data Release Frequency: Annually

### Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

### Electric Power Transmission Line Data

Source: PennWell Corporation

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**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health  
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Child Care Facility List

Source: Department of Public Welfare  
Telephone: 717-783-3856

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Pennsylvania Spatial Data Access

Telephone: 610-344-6105

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

### STREET AND ADDRESS INFORMATION

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## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

11442  
730 MONUMENT ROAD  
WILLISTOWN TOWNSHIP, PA 19355

### **TARGET PROPERTY COORDINATES**

Latitude (North):	40.025636 - 40° 1' 32.29"
Longitude (West):	75.533567 - 75° 32' 0.84"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	454470.6
UTM Y (Meters):	4430529.0
Elevation:	525 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	5948149 MALVERN, PA
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

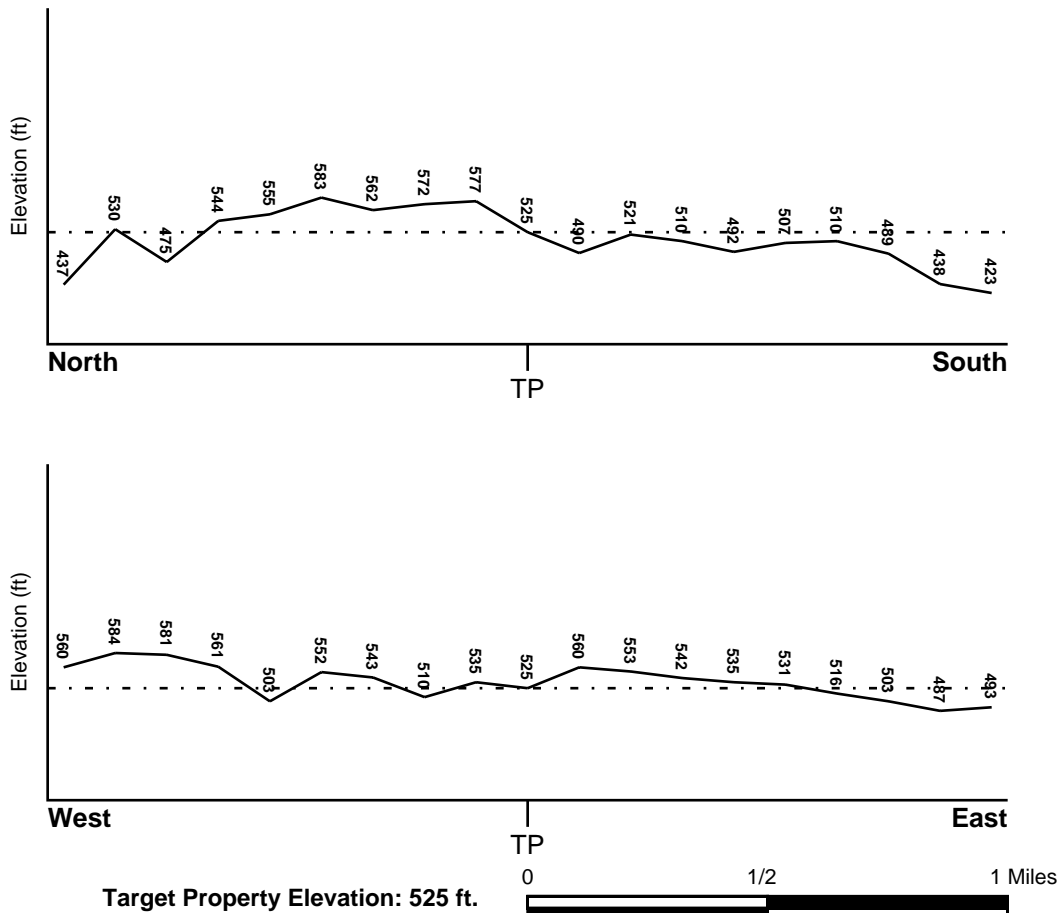
### TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### **FEMA FLOOD ZONE**

#### Flood Plain Panel at Target Property

42029C0160F

#### Additional Panels in search area:

Not Reported

#### FEMA Source Type

FEMA FIRM Flood data

#### FEMA Source Type

### **NATIONAL WETLAND INVENTORY**

NWI Quad at Target Property  
MALVERN

NWI Electronic  
Data Coverage  
YES - refer to the Overview Map and Detail Map

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

Era: Paleozoic  
System: Cambrian  
Series: Cambrian  
Code: Ce (decoded above as Era, System & Series)

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### **DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CHESTER

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	8 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
2	8 inches	42 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
3	42 inches	62 inches	silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinator soil types may appear within the general area of target property.

Soil Surface Textures: loam  
extremely stony - silt loam  
channery - loam  
very stony - loam

Surficial Soil Types: loam  
extremely stony - silt loam  
channery - loam  
very stony - loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: loam  
channery - fine sandy loam  
weathered bedrock  
clay loam  
stratified

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
B7	USGS40001005793	1/8 - 1/4 Mile West
H20	USGS40001005873	1/4 - 1/2 Mile WNW
27	USGS40001005645	1/4 - 1/2 Mile SSW
J29	USGS40001005646	1/4 - 1/2 Mile SW
L40	USGS40001005966	1/2 - 1 Mile NW
N45	USGS40001006063	1/2 - 1 Mile NNE
N48	USGS40001006076	1/2 - 1 Mile NNE
N50	USGS40001006083	1/2 - 1 Mile NNE
T63	USGS40001005641	1/2 - 1 Mile WSW
U65	USGS40001005978	1/2 - 1 Mile WNW
V79	USGS40001006230	1/2 - 1 Mile NNE
Z89	USGS40001006265	1/2 - 1 Mile North

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
5	PA1150060	1/8 - 1/4 Mile NNW

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	PASI50000380458	1/8 - 1/4 Mile East
A2	PASI50000380457	1/8 - 1/4 Mile East
A3	PASI50000380711	1/8 - 1/4 Mile East
A4	PASI50000380459	1/8 - 1/4 Mile East
6	PASI50000383582	1/8 - 1/4 Mile SSW
8	PASI50000403479	1/8 - 1/4 Mile NE
B9	PASI50000010950	1/8 - 1/4 Mile West
C10	PASI50000402297	1/4 - 1/2 Mile SSE
D11	PASI50000104927	1/4 - 1/2 Mile NNW
D12	SPAW0060466	1/4 - 1/2 Mile North
C13	PASI50000111088	1/4 - 1/2 Mile SSE
E14	SPAW0066629	1/4 - 1/2 Mile SSE
F15	PASI50000388287	1/4 - 1/2 Mile East
F16	PASI50000388288	1/4 - 1/2 Mile East

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
G17	SPAW0066630	1/4 - 1/2 Mile SSW
E18	PASI50000397583	1/4 - 1/2 Mile SSE
G19	PASI50000111089	1/4 - 1/2 Mile SSW
H21	PASI50000043153	1/4 - 1/2 Mile WNW
G22	PASI50000382010	1/4 - 1/2 Mile SSW
G23	PASI50000382011	1/4 - 1/2 Mile SSW
G24	PASI50000382012	1/4 - 1/2 Mile SSW
G25	PASI50000391227	1/4 - 1/2 Mile SSW
E26	PASI50000393223	1/4 - 1/2 Mile SSE
I28	PASI50000409672	1/4 - 1/2 Mile WNW
I30	PASI50000409626	1/4 - 1/2 Mile WNW
K31	SPAW0057750	1/4 - 1/2 Mile SW
L32	SPAW0066797	1/4 - 1/2 Mile NW
I33	PASI50000409678	1/4 - 1/2 Mile WNW
L34	PASI50000111256	1/4 - 1/2 Mile NW
M35	PASI50000111214	1/4 - 1/2 Mile SE
J36	PASI50000010921	1/4 - 1/2 Mile SW
M37	SPAW0066755	1/4 - 1/2 Mile SE
K38	PASI50000102211	1/4 - 1/2 Mile SW
K39	SPAW0057751	1/4 - 1/2 Mile SW
K41	PASI50000102212	1/2 - 1 Mile SW
L42	PASI50000010993	1/2 - 1 Mile NW
N43	PASI50000011012	1/2 - 1 Mile NNE
44	PASI50000387123	1/2 - 1 Mile SE
N46	PASI50000011017	1/2 - 1 Mile NNE
N47	PASI50000012820	1/2 - 1 Mile NNE
O49	SPAW0066746	1/2 - 1 Mile SSW
O51	PASI50000111205	1/2 - 1 Mile SSW
P52	SPAW0066628	1/2 - 1 Mile SSW
P53	PASI50000111087	1/2 - 1 Mile SSW
P54	SPAW0066627	1/2 - 1 Mile SSW
Q55	PASI50000407272	1/2 - 1 Mile SW
Q56	PASI50000407326	1/2 - 1 Mile SW
Q57	PASI50000407327	1/2 - 1 Mile SW
P58	PASI50000111086	1/2 - 1 Mile SSW
R59	SPAW0057804	1/2 - 1 Mile WSW
R60	PASI50000102265	1/2 - 1 Mile WSW
S61	PASI50000111075	1/2 - 1 Mile SE
S62	SPAW0066616	1/2 - 1 Mile SE
T64	PASI50000010919	1/2 - 1 Mile WSW
U66	PASI50000010998	1/2 - 1 Mile WNW
V67	PASI50000103348	1/2 - 1 Mile NNE
W68	PASI50000111204	1/2 - 1 Mile SE
X69	PASI50000111175	1/2 - 1 Mile SSE
V70	SPAW0058887	1/2 - 1 Mile NNE
X71	SPAW0066716	1/2 - 1 Mile SE
V72	PASI50000011050	1/2 - 1 Mile NNE
Y73	PASI50000399519	1/2 - 1 Mile SSE
Y74	PASI50000399518	1/2 - 1 Mile SSE
Y75	PASI50000400137	1/2 - 1 Mile SSE
Y76	PASI50000400136	1/2 - 1 Mile SSE
W77	SPAW0066745	1/2 - 1 Mile ESE

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
W78	PASI50000111198	1/2 - 1 Mile ESE
W80	SPAW0066739	1/2 - 1 Mile ESE
Z81	PASI50000012827	1/2 - 1 Mile North
AA82	PASI50000404343	1/2 - 1 Mile ENE
AA83	PASI50000399224	1/2 - 1 Mile ENE
AA84	PASI50000409921	1/2 - 1 Mile ENE
AA85	PASI50000409866	1/2 - 1 Mile ENE
AA86	PASI50000409922	1/2 - 1 Mile ENE
Z87	PASI50000011057	1/2 - 1 Mile North
AB88	PASI50000103295	1/2 - 1 Mile NNE
AB90	SPAW0058834	1/2 - 1 Mile NNE
AC91	PASI50000103324	1/2 - 1 Mile NNW
AC92	SPAW0058863	1/2 - 1 Mile NNW
AD93	SPAW0057805	1/2 - 1 Mile SSW
AD94	SPAW0057807	1/2 - 1 Mile SSW
AD95	SPAW0057808	1/2 - 1 Mile SSW
AC96	PASI50000103326	1/2 - 1 Mile NNW
AC97	PASI50000103325	1/2 - 1 Mile NNW
AC98	SPAW0058865	1/2 - 1 Mile NNW
AC99	PASI50000103323	1/2 - 1 Mile NNW
AC100	SPAW0058862	1/2 - 1 Mile NNW
AC101	SPAW0058864	1/2 - 1 Mile NNW
AD102	PASI50000102268	1/2 - 1 Mile SSW
AD103	PASI50000102266	1/2 - 1 Mile SSW
AD104	PASI50000102269	1/2 - 1 Mile SSW
AB105	PASI50000103294	1/2 - 1 Mile NNE

- 



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# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**A1**  
**East**  
**1/8 - 1/4 Mile**  
**Higher**

**PA WELLS PASI50000380458**

Objectid:	380458	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	286	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	17-NOV-10	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdata:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.02592		
Longitudedd:	-75.53111		
Welladdress:	724 Monument Road		
Wellzipcode:	19355	Depthtobedrock:	50
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	29-OCT-10	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	067734
Latestowner:	7449400	Driller scoordme:	1
Latestproduction:	0	Latestwelluse:	9850204
Site id:	PASI50000380458	GeneralCounter:	473716

**A2**  
**East**  
**1/8 - 1/4 Mile**  
**Higher**

**PA WELLS PASI50000380457**

Objectid:	380457	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	286	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	17-NOV-10	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdata:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.02592		
Longitudedd:	-75.53111		
Welladdress:	724 Monument Road		
Wellzipcode:	19355	Depthtobedrock:	50
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	29-OCT-10	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	067734
Latestowner:	7443892	Driller scoordme:	1

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latestproduction: 0  
Site id: PASI50000380457

Latestwelluse: 7168513  
GeneralCounter: 473715

### A3 East 1/8 - 1/4 Mile Higher

PA WELLS PASI50000380711

Objectid:	380711	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	286	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracyc:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	17-NOV-10	Dateupdated:	Not Reported
Datareliabilityc:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.02592		
Longitudedd:	-75.53111		
Welladdress:	724 Monument Road		
Wellzipcode:	19355	Depthtobedrock:	50
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	29-OCT-10	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	067734
Latestowner:	7463997	Driller scoordme:	1
Latestproduction:	0	Latestwelluse:	9907356
Site id:	PASI50000380711	GeneralCounter:	473969

### A4 East 1/8 - 1/4 Mile Higher

PA WELLS PASI50000380459

Objectid:	380459	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	286	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracyc:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	17-NOV-10	Dateupdated:	Not Reported
Datareliabilityc:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.02592		
Longitudedd:	-75.53111		
Welladdress:	724 Monument Road		
Wellzipcode:	19355	Depthtobedrock:	50
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	29-OCT-10	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	067734
Latestowner:	7462952	Driller scoordme:	1

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latest production: 0  
Site id: PASI50000380459

Latest well use: 9905705  
General Counter: 473717

5  
NNW  
1/8 - 1/4 Mile  
Higher

FRDS PWS PA1150060

Epa region:	03	State:	PA
Pwsid:	PA1150060		
Pwsname:	PSW-MALVERN		
City served:	Not Reported	State served:	PA
Zip served:	Not Reported	Fips county:	42029
Status:	Closed	Pop srvc:	3100
Pwssvcconn:	1393	Source:	Groundwater
Pws type:	CWS	Owner:	Local_Govt
Contact:	JOSEPH A. RITTER		
Contact or gname:	Not Reported		
Contact phone:	610-525-1400	Contact address1:	762 LANCASTER AVENUE
Contact address2:	Not Reported	Contact city:	BRYN MAWR
Contact state:	PA	Contact zip:	19010
Activity code:	I		

Location Information:			
Name:	PSW-MALVERN		
Pwstypcd:	CWS	Prmsrccd:	GW
Pop served:	3100		
Add1:	762 LANCASTER AVENUE		
Add2:	Not Reported		
City:	BRYN MAWR	State:	PA
Zip:	19010	Phone:	610-525-1400
Cityserv:	Not Reported	Cntyserv:	Not Reported
Stateserv:	PA	Zip serv:	Not Reported

PWS ID: PA1150060  
Date Initiated: Not Reported Date Deactivated: Not Reported  
PWS Name: MALVERN BORO DEPT OF PUBLIC  
BOX 437  
MALVERN, PA 19355

Addressee / Facility: Mailing  
MALVERN BORO DEPT OF PUBLIC  
WORKS ATTN IRA DUTTER, FOREMAN  
BOX 437  
MALVERN, PA 19355

Facility Latitude:	40 01 39	Facility Longitude:	075 32 08
Facility Latitude:	40 02 13	Facility Longitude:	075 30 33
Facility Latitude:	40 01 58	Facility Longitude:	075 30 10
Facility Latitude:	40 03 37	Facility Longitude:	075 31 25
Facility Latitude:	40 01 53	Facility Longitude:	075 30 07
Facility Latitude:	40 02 00	Facility Longitude:	075 30 22
Facility Latitude:	40 02 09	Facility Longitude:	075 30 35
Facility Latitude:	40 02 09	Facility Longitude:	075 30 30

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Facility Latitude: 40 02 04  
City Served: Not Reported  
Treatment Class: Untreated

Facility Longitude: 075 30 28  
Population: 00003100

Violations information not reported.

**6**  
**SSW**  
**1/8 - 1/4 Mile**  
**Lower**

**PA WELLS PASI50000383582**

Objectid:	383582	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	300	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	05-MAY-09	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdata:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.023219		
Longitudedd:	-75.535394		
Welladdress:	846 FOREST LANE		
Wellzipcode:	19355	Depthtobedrock:	34
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	16-APR-09	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	Not Reported
Latestowner:	7450738	Driller scoordme:	3
Latestproduction:	0	Latestwelluse:	9908808
Site id:	PASI50000383582	GeneralCounter:	476840

**B7**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS USGS40001005793**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-400130075321601		
Monloc name:	CH 2869		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.0251076
Longitude:	-75.5374259	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	490
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Wissahickon Formation, Albite Chlorite Schist		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported  
 Construction date: Not Reported  
 Welldepth units: Not Reported  
 Wellholedepth units: Not Reported

Welldepth: Not Reported  
 Wellholedepth: Not Reported

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1986-08-13	14.4	

**8**  
**NE**  
**1/8 - 1/4 Mile**  
**Higher**

**PA WELLS PASI50000403479**

Objectid:	403479	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	240	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	26-JUL-10	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdata:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.02804		
Longitudedd:	-75.53096		
Welladdress:	14 Pickwick Lane	Depthtobedrock:	40
Wellzipcode:	19355	Saltwaterzone:	0
Bedrocknotreache:	0	Pagwis id:	0
Datedrilled:	15-JUL-10	Localpermit:	069158
Sourcesitedataco:	3	Driller scoordme:	3
Latestowner:	7460335	Latestwelluse:	7176680
Latestproduction:	0	GeneralCounter:	496737
Site id:	PASI50000403479		

**B9**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**PA WELLS PASI50000010950**

Objectid:	10950	Depcounter:	-1
Siteid:	400130075321601	Transactioncount:	1
Localwellnumber:	CH 2869	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKA	Topographycode:	S
Welldepth:	0	Elevation:	490
Elevmethodcode:	M	Accuracyofelevat:	5
Hydrologicunit:	02040202	Latlongaccuracy:	S
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	22-AUG-86	Dateupdated:	03-MAR-90

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Data reliability:	C	Source depth data:	Z
Municipality code:	15973		
Latitude:	40.025		
Longitude:	-75.5377777777778		
Well address:	Not Reported		
Well zip code:	Not Reported	Depth to bedrock:	0
Bedrock not reached:	0	Saltwater zone:	0
Date drilled:	Not Reported	Pagwis id:	10951
Source site data:	1	Local permit:	Not Reported
Latest owner:	10974	Driller's coordinates:	0
Latest production:	35362	Latest well use:	10951
Site id:	PAS150000010950	General Counter:	10951

**C10  
SSE  
1/4 - 1/2 Mile  
Higher**

**PA WELLS      PAS150000402297**

Object id:	402297	Dep counter:	-1
Site id:	Not Reported	Transaction count:	0
Local well number:	Not Reported	County code:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapg code:	Not Reported	Topography code:	Not Reported
Well depth:	400	Elevation:	0
Elev method code:	Not Reported	Accuracy of elevat:	Not Reported
Hydrologic unit:	Not Reported	Lat long accuracy:	Not Reported
Quad code:	0	Type of site code:	W
Date created:	30-OCT-09	Date updated:	Not Reported
Data reliability:	Not Reported	Source depth data:	Not Reported
Municipality code:	15973		
Latitude:	40.022		
Longitude:	-75.532		
Well address:	832 Forest Lane		
Well zip code:	19355	Depth to bedrock:	55
Bedrock not reached:	0	Saltwater zone:	0
Date drilled:	26-MAR-09	Pagwis id:	0
Source site data:	3	Local permit:	062670
Latest owner:	7451750	Driller's coordinates:	1
Latest production:	4482478	Latest well use:	9397101
Site id:	PAS150000402297	General Counter:	495555

**D11  
NNW  
1/4 - 1/2 Mile  
Higher**

**PA WELLS      PAS150000104927**

Object id:	104927	Dep counter:	-1
Site id:	Not Reported	Transaction count:	0
Local well number:	X 0268	County code:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapg code:	300WSCKA	Topography code:	S
Well depth:	160	Elevation:	0
Elev method code:	Not Reported	Accuracy of elevat:	Not Reported
Hydrologic unit:	Not Reported	Lat long accuracy:	M
Quad code:	1841	Type of site code:	W
Date created:	03-FEB-99	Date updated:	04-FEB-99

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Data reliability:	L	Source depth data:	D
Municipality code:	15938		
Latitude:	40.029722222222		
Longitude:	-75.535		
Well address:	Not Reported		
Well zip code:	Not Reported	Depth to bedrock:	33
Bedrock not reached:	0	Saltwater zone:	0
Dated drilled:	01-JAN-67	Pagwis id:	105030
Source site data code:	2	Local permit:	Not Reported
Latest owner:	104315	Driller's coordinates:	0
Latest production:	105558	Latest well use:	107252
Site id:	PAS150000104927	General Counter:	109126

**D12**  
**North**  
**1/4 - 1/2 Mile**  
**Higher**

**PA WELLS      SPAW0060466**

Well ID:	X 0268	County:	CHESTER
Owner's Name:	MANLEY LEE	Longitude:	753206
Latitude:	400147	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	HILLSIDE
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	160	Casing1 Diameter(inches):	5
Casing 1:	28	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-67
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	23	Yield Measurement Method:	1
Yield (gpm):	10	Test Time:	1
Drawdown:	136	Driller:	0248
Bedrock:	33	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	41	Lithology:	OTHER
Water Bearing Zone 3:	Not Reported	Remark:	1841
Municipality:	MALVERN		
Aquifer:	ALBITE CHLORITE SCHIST-WISSAHICKON FORMATION		

**C13**  
**SSE**  
**1/4 - 1/2 Mile**  
**Higher**

**PA WELLS      PAS150000111088**

Objectid:	111088	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	6097N	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	F
Welldepth:	360	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	02040203	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Data reliability:	L	Source depth data:	D
Municipality code:	15973		
Latitude:	40.021666666667		
Longitude:	-75.530833333333		
Well address:	Not Reported		
Well zip code:	Not Reported	Depth to bedrock:	0
Bedrock not reached:	0	Saltwater zone:	0
Dated drilled:	27-JUL-81	Pagwis id:	111191
Source site data code:	2	Local permit:	Not Reported
Latest owner:	110466	Driller's coordinates:	0
Latest production:	111689	Latest well use:	113310
Site id:	PAS150000111088	General Counter:	115287

**E14  
SSE  
1/4 - 1/2 Mile  
Higher**

**PA WELLS      SPAW0066629**

Well ID:	6097N	County:	CHESTER
Owner's Name:	WHITE F	Longitude:	753151
Latitude:	400118	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	FLAT SURFACE
Hydrologic Unit:	02040203	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	360	Casing1 Diameter(inches):	6
Casing 1:	21	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	7-27-81
Grouted:	Not Reported	Production WL:	280
Static Water Level:	60	Yield Measurement Method:	V
Yield (gpm):	5	Test Time:	1
Drawdown:	220	Driller:	909
Bedrock:	Not Reported	Water Bearing Zone 2:	325
Water Bearing Zone 1:	300	Lithology:	SCHIST
Water Bearing Zone 3:	345	Remark:	WBZ4=357
Municipality:	WILLISTOWN		
Aquifer:	Not Reported		

**F15  
East  
1/4 - 1/2 Mile  
Higher**

**PA WELLS      PAS150000388287**

Objectid:	388287	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	340	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	03-JUN-10	Dateupdated:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Data reliability:	Not Reported	Source depth data:	Not Reported
Municipality code:	15973		
Latitude:	40.02496		
Longitude:	-75.5277		
Well address:	29 Stonehenge Lane		
Well zip code:	19355	Depth to bedrock:	95
Bedrock not reached:	0	Saltwater zone:	0
Date drilled:	14-MAY-10	Pagwis id:	0
Source site data:	3	Local permit:	068207
Latest owner:	7464029	Driller's coordinate:	1
Latest production:	0	Latest well use:	9905309
Site id:	PASI50000388287	General Counter:	481545

**F16**  
**East**  
**1/4 - 1/2 Mile**  
**Higher**

**PA WELLS      PASI50000388288**

Object id:	388288	Dep counter:	-1
Site id:	Not Reported	Transaction count:	0
Local well number:	Not Reported	County code:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapg code:	Not Reported	Topography code:	Not Reported
Well depth:	340	Elevation:	0
Elev method code:	Not Reported	Accuracy of elevat:	Not Reported
Hydrologic unit:	Not Reported	Lat/long accuracy:	Not Reported
Quad code:	0	Type of site code:	W
Date created:	03-JUN-10	Date updated:	Not Reported
Data reliability:	Not Reported	Source depth data:	Not Reported
Municipality code:	15973		
Latitude:	40.02496		
Longitude:	-75.5277		
Well address:	29 Stonehenge Lane		
Well zip code:	19355	Depth to bedrock:	95
Bedrock not reached:	0	Saltwater zone:	0
Date drilled:	14-MAY-10	Pagwis id:	0
Source site data:	3	Local permit:	068207
Latest owner:	7445274	Driller's coordinate:	1
Latest production:	0	Latest well use:	9923801
Site id:	PASI50000388288	General Counter:	481546

**G17**  
**SSW**  
**1/4 - 1/2 Mile**  
**Lower**

**PA WELLS      SPAW0066630**

Well ID:	6098N	County	CHESTER
Owner's Name:	WHITE F	Longitude:	753209
Latitude:	400116	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	FLAT SURFACE
Hydrologic Unit:	02040203	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	440	Casing1 Diameter(inches):	6
Casing 1:	20	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Grouted:	Not Reported	Date Drilled:	9-18-81
Static Water Level:	50	Production WL:	321
Yield (gpm):	4	Yield Measurement Method:	V
Drawdown:	271	Test Time:	1
Bedrock:	15	Driller:	909
Water Bearing Zone 1:	382	Water Bearing Zone 2:	410
Water Bearing Zone 3:	425	Lithology:	SCHIST
Municipality:	WILLISTOWN	Remark:	WBZ4=433
Aquifer:	Not Reported		

**E18**  
**SSE**  
**1/4 - 1/2 Mile**  
**Lower**

**PA WELLS      PASI50000397583**

Objectid:	397583	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	500	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	27-JAN-12	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdata:	Not Reported
Municipalitycode:	15973		
Latituedd:	40.0213		
Longitudedd:	-75.5309		
Welladdress:	830 Forest Lane - Lot 2		
Wellzipcode:	19355	Depthtobedrock:	25
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	25-JAN-12	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	067490
Latestowner:	7448649	Driller scoordme:	1
Latestproduction:	4480802	Latestwelluse:	7326433
Site id:	PASI50000397583	GeneralCounter:	490841

**G19**  
**SSW**  
**1/4 - 1/2 Mile**  
**Lower**

**PA WELLS      PASI50000111089**

Objectid:	111089	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	6098N	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	F
Welldepth:	440	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	02040203	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Data reliability:	L	Source depth data:	D
Municipality code:	15973		
Latitude:	40.0211111111111		
Longitude:	-75.5358333333333		
Well address:	Not Reported		
Well zip code:	Not Reported	Depth to bedrock:	15
Bedrock not reached:	0	Saltwater zone:	0
Dated drilled:	18-SEP-81	Pagwis id:	111192
Source site data code:	2	Local permit:	Not Reported
Latest owner:	110467	Driller's coordinates:	0
Latest production:	111690	Latest well use:	113311
Site id:	PAS150000111089	General Counter:	115288

**H20**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS      USGS40001005873**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monoc Identifier:	USGS-400140075322301		
Monoc name:	CH 5232		
Monoc type:	Well		
Monoc desc:	Not Reported		
Huc code:	02040202	Drainage area value:	Not Reported
Drainage area units:	Not Reported	Contrib drainage area:	Not Reported
Contrib drainage area units:	Not Reported	Latitude:	40.0278852
Longitude:	-75.5393702	Source map scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	550
Vert measure units:	feet	Vert acc measure val:	5
Vert acc measure units:	feet		
Vert collection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Country code:	US
Aquifer name:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Wissahickon Formation, Albite Chlorite Schist		
Aquifer type:	Not Reported		
Construction date:	1962	Well depth:	97
Well depth units:	ft	Well hole depth:	97
Well hole depth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1995-08-15	41.80	

**H21**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**PA WELLS      PAS150000043153**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	43153	Depcounter:	-1
Siteid:	400140075322301	Transactioncount:	3
Localwellnumber:	CH 5232	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCA	Topographycode:	S
Welldepth:	97	Elevation:	550
Elevmethodcode:	Not Reported	Accuracyofelevat:	5
Hydrologicunit:	02040202	Latlongaccuracy:	Not Reported
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	06-SEP-95	Dateupdated:	13-OCT-95
Datareliability:	C	Sourcedepthdata:	O
Municipalitycode:	15973		
Latitudedd:	40.0277777777778		
Longitudedd:	-75.5397222222222		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-JAN-62	Pagwis id:	43154
Sourcesitedata:	1	Localpermit:	Not Reported
Latestowner:	42820	Driller scoordme:	0
Latestproduction:	0	Latestwelluse:	43154
Site id:	PASI50000043153	GeneralCounter:	47230

### G22 SSW 1/4 - 1/2 Mile Lower

PA WELLS PASI50000382010

Objectid:	382010	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	302	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	21-JUN-11	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdata:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.02098		
Longitudedd:	-75.53658		
Welladdress:	6 Tiburon Lane		
Wellzipcode:	19355	Depthtobedrock:	20
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	04-FEB-10	Pagwis id:	0
Sourcesitedata:	3	Localpermit:	068313
Latestowner:	7455962	Driller scoordme:	1
Latestproduction:	4484698	Latestwelluse:	9858762
Site id:	PASI50000382010	GeneralCounter:	475268

### G23 SSW 1/4 - 1/2 Mile Lower

PA WELLS PASI50000382011

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	382011	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	353	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	21-JUN-11	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.02095		
Longitudedd:	-75.5366		
Welladdress:	6 Tiburon Lane		
Wellzipcode:	19355	Depthtobedrock:	35
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	05-FEB-10	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	068313
Latestowner:	7451082	Driller scoordme:	1
Latestproduction:	4482105	Latestwelluse:	9397981
Site id:	PASI50000382011	GeneralCounter:	475269

**G24**  
**SSW**  
**1/4 - 1/2 Mile**  
**Lower**

**PA WELLS PASI50000382012**

Objectid:	382012	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	302	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	21-JUN-11	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.02093		
Longitudedd:	-75.53657		
Welladdress:	6 Tiburon Lane		
Wellzipcode:	19355	Depthtobedrock:	20
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	08-FEB-10	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	068313
Latestowner:	7463610	Driller scoordme:	1
Latestproduction:	4487588	Latestwelluse:	7321773
Site id:	PASI50000382012	GeneralCounter:	475270

**G25**  
**SSW**  
**1/4 - 1/2 Mile**  
**Lower**

**PA WELLS PASI50000391227**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	391227	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	302	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	21-JUN-11	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdata:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.02088		
Longitudedd:	-75.53657		
Welladdress:	6 Tiburon Lane		
Wellzipcode:	19355	Depthtobedrock:	11
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	10-FEB-10	Pagwis id:	0
Sourcesitedata:	3	Localpermit:	068313
Latestowner:	7457189	Driller scoordme:	1
Latestproduction:	4483768	Latestwelluse:	9866090
Site id:	PASI50000391227	GeneralCounter:	484485

**E26**  
**SSE**  
**1/4 - 1/2 Mile**  
**Lower**

**PA WELLS PASI50000393223**

Objectid:	393223	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	800	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	26-AUG-11	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdata:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.0211		
Longitudedd:	-75.5297		
Welladdress:	824 Forest Lane - Lot 5		
Wellzipcode:	19355	Depthtobedrock:	55
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	12-AUG-11	Pagwis id:	0
Sourcesitedata:	3	Localpermit:	067333
Latestowner:	7465376	Driller scoordme:	1
Latestproduction:	4489181	Latestwelluse:	9402550
Site id:	PASI50000393223	GeneralCounter:	486481

**27**  
**SSW**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS USGS40001005645**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-400114075321201		
Monloc name:	CH 5445		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.0206667
Longitude:	-75.5366389	Sourcemap scale:	24000
Horiz Acc measure:	.5	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	465
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Wissahickon Formation, Oligoclase Mica Schist		
Aquifer type:	Unconfined single aquifer		
Construction date:	198305	Welldepth:	100
Welldepth units:	ft	Wellholedepth:	100
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

**I28**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**PA WELLS PASI50000409672**

Objectid:	409672	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	302	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracyc:	Not Reported
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	31-OCT-12	Dateupdated:	Not Reported
Datareliabilityc:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.0287		
Longitudedd:	-75.5412833		
Welladdress:	5 Harmony Circle		
Wellzipcode:	19355	Depthtobedrock:	48
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	21-AUG-12	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	070173 Loop #1
Latestowner:	7473009	Driller scoordme:	1
Latestproduction:	4495227	Latestwelluse:	8355565
Site id:	PASI50000409672	GeneralCounter:	502930

**J29**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS USGS40001005646**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-400114075322301		
Monloc name:	CH 1110		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.0206633
Longitude:	-75.5393709	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	480
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Wissahickon Formation, Oligoclase Mica Schist		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1986-06-30	33.6	

**I30**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**PA WELLS PASI50000409626**

Objectid:	409626	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	302	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	31-OCT-12	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.0286333		
Longitudedd:	-75.54135		
Welladdress:	5 Harmony Circle		
Wellzipcode:	19355	Depthtobedrock:	90
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	24-AUG-12	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	070173 Loop #2
Latestowner:	7473010	Driller scoordme:	1

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latest production: 4495228  
Site id: PASI50000409626

Latest well use: 8355566  
General Counter: 502884

**K31**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**PA WELLS SPAW0057750**

Well ID:	7188N	County	CHESTER
Owner's Name:	WHITE F	Longitude:	753227
Latitude:	400117	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	FLAT SURFACE
Hydrologic Unit:	02040203	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	440	Casing1 Diameter(inches):	6
Casing 1:	70	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	4-27-81
Grouted:	Not Reported	Production WL:	390
Static Water Level:	60	Yield Measurement Method:	V
Yield (gpm):	4	Test Time:	1
Drawdown:	330	Driller:	909
Bedrock:	65	Water Bearing Zone 2:	426
Water Bearing Zone 1:	415	Lithology:	OTHER
Water Bearing Zone 3:	427	Remark:	WBZ4=432; RT=BROWN CLAY
Municipality:	EAST GOSHEN		
Aquifer:	Not Reported		

**L32**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**PA WELLS SPAW0066797**

Well ID:	X 2917	County	CHESTER
Owner's Name:	GLAZAR DONALD	Longitude:	753223
Latitude:	400150	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	Not Reported
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	105	Casing1 Diameter(inches):	6
Casing 1:	21	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-00
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	46	Yield Measurement Method:	Not Reported
Yield (gpm):	4	Test Time:	4
Drawdown:	47	Driller:	0904
Bedrock:	9	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	93	Lithology:	SHALE
Water Bearing Zone 3:	Not Reported	Remark:	1841
Municipality:	WILLISTOWN		
Aquifer:	ALBITE CHLORITE SCHIST-WISSAHICKON FORMATION		

**I33**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**PA WELLS PASI50000409678**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	409678	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	302	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	31-OCT-12	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.0285833		
Longitudedd:	-75.5415		
Welladdress:	5 Harmony Circle		
Wellzipcode:	19355	Depthtobedrock:	45
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	24-AUG-12	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	070173 Loop #3
Latestowner:	7473011	Driller scoordme:	1
Latestproduction:	4495229	Latestwelluse:	9886927
Site id:	PASI50000409678	GeneralCounter:	502936

**L34  
NW  
1/4 - 1/2 Mile  
Higher**

**PA WELLS      PASI50000111256**

Objectid:	111256	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	X 2917	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKA	Topographycode:	Not Reported
Welldepth:	105	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdatac:	D
Municipalitycode:	15973		
Latitudedd:	40.0305555555556		
Longitudedd:	-75.5397222222222		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	9
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	Not Reported	Pagwis id:	111359
Sourcesitedataco:	2	Localpermit:	Not Reported
Latestowner:	110634	Driller scoordme:	0
Latestproduction:	111857	Latestwelluse:	113477
Site id:	PASI50000111256	GeneralCounter:	115455

**M35  
SE  
1/4 - 1/2 Mile  
Lower**

**PA WELLS      PASI50000111214**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	111214	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	X 1663	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	S
Welldepth:	115	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdatac:	D
Municipalitycode:	15973		
Latitudedd:	40.02		
Longitudedd:	-75.5283333333333		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	37
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-JAN-70	Pagwis id:	111317
Sourcesitedataco:	2	Localpermit:	Not Reported
Latestowner:	110592	Driller scoordme:	0
Latestproduction:	111815	Latestwelluse:	113435
Site id:	PASI50000111214	GeneralCounter:	115413

**J36**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**PA WELLS      PASI50000010921**

Objectid:	10921	Depcounter:	-1
Siteid:	400114075322301	Transactioncount:	1
Localwellnumber:	CH 1110	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	F
Welldepth:	0	Elevation:	480
Elevmethodcode:	M	Accuracyofelevat:	5
Hydrologicunit:	02040202	Latlongaccuracy:	S
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	22-AUG-86	Dateupdated:	03-MAR-90
Datareliability:	C	Sourcedepthdatac:	Z
Municipalitycode:	15973		
Latitudedd:	40.0205555555556		
Longitudedd:	-75.5397222222222		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	Not Reported	Pagwis id:	10922
Sourcesitedataco:	1	Localpermit:	Not Reported
Latestowner:	10944	Driller scoordme:	0
Latestproduction:	35351	Latestwelluse:	10922
Site id:	PASI50000010921	GeneralCounter:	10922

**M37**  
**SE**  
**1/4 - 1/2 Mile**  
**Lower**

**PA WELLS      SPAW0066755**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well ID:	X 1663	County	CHESTER
Owner's Name:	JACKSON KENNETH	Longitude:	753142
Latitude:	400112	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	HILLSIDE
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	115	Casing1 Diameter(inches):	6
Casing 1:	44	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-70
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	25	Yield Measurement Method:	1
Yield (gpm):	6	Test Time:	3
Drawdown:	52	Driller:	0904
Bedrock:	37	Water Bearing Zone 2:	106
Water Bearing Zone 1:	66	Lithology:	OTHER
Water Bearing Zone 3:	Not Reported	Remark:	1841
Municipality:	WILLISTOWN		
Aquifer:	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION		

**K38**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**PA WELLS PASI50000102211**

Objectid:	102211	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	7188N	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	F
Welldepth:	440	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	02040203	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15919		
Latitudedd:	40.0213888888889	Depthtobedrock:	65
Longitudedd:	-75.5408333333333	Saltwaterzone:	0
Welladdress:	Not Reported	Pagwis id:	102314
Wellzipcode:	Not Reported	Localpermit:	Not Reported
Bedrocknotreache:	0	Driller scoordme:	0
Datedrilled:	27-APR-81	Latestwelluse:	104580
Sourcesitedata:	2	GeneralCounter:	106410
Latestowner:	101601		
Latestproduction:	102845		
Site id:	PASI50000102211		

**K39**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**PA WELLS SPAW0057751**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well ID:	7189N	County	CHESTER
Owner's Name:	WHITE F	Longitude:	753229
Latitude:	400117	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	FLAT SURFACE
Hydrologic Unit:	02040203	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	200	Casing1 Diameter(inches):	6
Casing 1:	24	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	4-25-81
Grouted:	Not Reported	Production WL:	160
Static Water Level:	60	Yield Measurement Method:	V
Yield (gpm):	8	Test Time:	1
Drawdown:	100	Driller:	909
Bedrock:	19	Water Bearing Zone 2:	135
Water Bearing Zone 1:	130	Lithology:	OTHER
Water Bearing Zone 3:	170	Remark:	WBZ4=185; RT=SCHIST
Municipality:	EAST GOSHEN		
Aquifer:	Not Reported		

**L40  
NW  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS40001005966**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-400151075322601		
Monloc name:	CH 2868		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040205	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.0309407
Longitude:	-75.5402032	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	575
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Wissahickon Formation, Albite Chlorite Schist		
Aquifer type:	Not Reported		
Construction date:	19780101	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
Date		
-----		
1986-08-13	46.2	

**K41  
SW  
1/2 - 1 Mile  
Lower**

**PA WELLS      PASI50000102212**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	102212	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	7189N	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	F
Welldepth:	200	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	02040203	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15919		
Latitudedd:	40.0213888888889		
Longitudedd:	-75.5413888888889		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	19
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	25-APR-81	Pagwis id:	102315
Sourcesitedata:	2	Localpermit:	Not Reported
Latestowner:	101602	Driller scoordme:	0
Latestproduction:	102846	Latestwelluse:	104581
Site id:	PASI50000102212	GeneralCounter:	106411

### L42 NW 1/2 - 1 Mile Higher

PA WELLS PASI50000010993

Objectid:	10993	Depcounter:	-1
Siteid:	400151075322601	Transactioncount:	1
Localwellnumber:	CH 2868	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKA	Topographycode:	F
Welldepth:	0	Elevation:	575
Elevmethodcode:	M	Accuracyofelevat:	5
Hydrologicunit:	02040205	Latlongaccuracy:	S
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	22-AUG-86	Dateupdated:	03-MAR-90
Datareliability:	C	Sourcedepthdata:	Z
Municipalitycode:	15973		
Latitudedd:	40.0308333333333		
Longitudedd:	-75.5405555555556		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-JAN-78	Pagwis id:	10994
Sourcesitedata:	1	Localpermit:	Not Reported
Latestowner:	11017	Driller scoordme:	0
Latestproduction:	35379	Latestwelluse:	10994
Site id:	PASI50000010993	GeneralCounter:	10994

### N43 NNE 1/2 - 1 Mile Higher

PA WELLS PASI50000011012

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	11012	Depcounter:	-1
Siteid:	400200075314801	Transactioncount:	1
Localwellnumber:	CH 255	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCA	Topographycode:	H
Welldepth:	160	Elevation:	560
Elevmethodcode:	M	Accuracyofelevat:	10
Hydrologicunit:	02040203	Latlongaccuracy:	S
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	06-DEC-76	Dateupdated:	03-MAR-90
Datareliability:	C	Sourcedepthdatac:	Z
Municipalitycode:	15973		
Latitudedd:	40.0333333333333		
Longitudedd:	-75.53		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	06-DEC-55	Pagwis id:	11013
Sourcesitedataco:	1	Localpermit:	Not Reported
Latestowner:	11038	Driller scoordme:	0
Latestproduction:	7921	Latestwelluse:	11013
Site id:	PASI50000011012	GeneralCounter:	11013

**44**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      PASI50000387123**

Objectid:	387123	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	142	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	23-DEC-11	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.02055		
Longitudedd:	-75.5252		
Welladdress:	814 Forrest Lane		
Wellzipcode:	19355	Depthtobedrock:	64
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	27-OCT-10	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	067411
Latestowner:	7445108	Driller scoordme:	1
Latestproduction:	4478615	Latestwelluse:	9894003
Site id:	PASI50000387123	GeneralCounter:	480381

**N45**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40001006063**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-400200075314801		
Monloc name:	CH 255		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.0334407
Longitude:	-75.5296466	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	564
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Wissahickon Formation, Albite Chlorite Schist		
Aquifer type:	Not Reported		
Construction date:	19551206	Welldepth:	160
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1955-12-06	42.00	

**N46**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**PA WELLS PASI50000011017**

Objectid:	11017	Depcounter:	-1
Siteid:	400201075314801	Transactioncount:	1
Localwellnumber:	CH 256	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKA	Topographycode:	H
Welldepth:	102	Elevation:	560
Elevmethodcode:	M	Accuracyofelevat:	10
Hydrologicunit:	02040203	Latlongaccuracy:	S
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	06-DEC-76	Dateupdated:	03-MAR-90
Datareliability:	C	Sourcedepthdatac:	Z
Municipalitycode:	15973		
Latitudedd:	40.0336111111111		
Longitudedd:	-75.53		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-SEP-52	Pagwis id:	11018
Sourcesitedataco:	1	Localpermit:	Not Reported
Latestowner:	11043	Driller scoordme:	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latestproduction:	7926	Latestwelluse:	11018
Site id:	PASI50000011017	GeneralCounter:	11018

**N47**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**PA WELLS      PASI50000012820**

Objectid:	12820	Depcounter:	-1
Siteid:	400202075315001	Transactioncount:	1
Localwellnumber:	CH 257	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCA	Topographycode:	H
Welldepth:	115	Elevation:	570
Elevmethodcode:	M	Accuracyofelevat:	10
Hydrologicunit:	02040203	Latlongaccuracyc:	F
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	06-DEC-76	Dateupdated:	28-JUN-94
Datareliabilityc:	C	Sourcedepthdatac:	Z
Municipalitycode:	15973		
Latitudedd:	40.0338888888889		
Longitudedd:	-75.5305555555556		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-JAN-64	Pagwis id:	12821
Sourcesitedataco:	1	Localpermit:	Not Reported
Latestowner:	12911	Driller scoordme:	0
Latestproduction:	0	Latestwelluse:	12821
Site id:	PASI50000012820	GeneralCounter:	12821

**N48**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40001006076**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-400201075314801		
Monloc name:	CH 256		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.0337185
Longitude:	-75.5296465	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	564
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Wissahickon Formation, Albite Chlorite Schist		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	102
Construction date:	19520901	Wellholedepth:	Not Reported
Welldepth units:	ft		
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**O49**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS**      **SPAW0066746**

Well ID:	X 1000	County	CHESTER
Owner's Name:	INC STEFANIK P	Longitude:	753218
Latitude:	400103	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	HILLSIDE
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	160	Casing1 Diameter(inches):	5
Casing 1:	45	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-68
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	50	Yield Measurement Method:	1
Yield (gpm):	8	Test Time:	1
Drawdown:	109	Driller:	0248
Bedrock:	39	Water Bearing Zone 2:	153
Water Bearing Zone 1:	74	Lithology:	OTHER
Water Bearing Zone 3:	Not Reported	Remark:	1841
Municipality:	WILLISTOWN		
Aquifer:	GRANITE & GRANITE GNEISS		

**N50**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**      **USGS40001006083**

Org. Identifier:	USGS-PA	Drainagearea value:	Not Reported
Formal name:	USGS Pennsylvania Water Science Center	Contrib drainagearea:	Not Reported
Monloc Identifier:	USGS-400202075315001	Latitude:	40.0339962
Monloc name:	CH 257	Sourcemap scale:	24000
Monloc type:	Well	Horiz Acc measure units:	seconds
Monloc desc:	Not Reported	Vert measure val:	565
Huc code:	02040203	Vertacc measure val:	10
Drainagearea Units:	Not Reported		
Contrib drainagearea units:	Not Reported		
Longitude:	-75.5302021		
Horiz Acc measure:	5		
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83		
Vert measure units:	feet		
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Wissahickon Formation, Albite Chlorite Schist		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	115
Construction date:	19640101	Wellholedepth:	Not Reported
Welldepth units:	ft		
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**O51**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      PASI50000111205**

Objectid:	111205	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	X 1000	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	000GRGS	Topographycode:	S
Welldepth:	160	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15973		
Latituedd:	40.0175		
Longituedd:	-75.5383333333333		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	39
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-JAN-68	Pagwis id:	111308
Sourcesitedata:	2	Localpermit:	Not Reported
Latestowner:	110583	Driller scoordme:	0
Latestproduction:	111806	Latestwelluse:	113426
Site id:	PASI50000111205	GeneralCounter:	115404

**P52**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      SPAW0066628**

Well ID:	6096N	County	CHESTER
Owner's Name:	DOLAN M	Longitude:	753214
Latitude:	400058	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	HILLSIDE
Hydrologic Unit:	02040203	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	175	Casing1 Diameter(inches):	6
Casing 1:	62	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	5-80
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	70	Yield Measurement Method:	V
Yield (gpm):	6	Test Time:	Not Reported
Drawdown:	Not Reported	Driller:	462
Bedrock:	Not Reported	Water Bearing Zone 2:	160
Water Bearing Zone 1:	78	Lithology:	GRANITE
Water Bearing Zone 3:	Not Reported	Remark:	Not Reported
Municipality:	WILLISTOWN		
Aquifer:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**P53**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS PASI50000111087**

Objectid:	111087	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	6096N	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	S
Welldepth:	175	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	02040203	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15973		
Latitudedd:	40.01611111111111		
Longitudedd:	-75.53722222222222		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-MAY-80	Pagwis id:	111190
Sourcesitedataco:	2	Localpermit:	Not Reported
Latestowner:	110465	Driller scoordme:	0
Latestproduction:	111688	Latestwelluse:	113309
Site id:	PASI50000111087	GeneralCounter:	115286

**P54**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS SPAW0066627**

Well ID:	6095N	County	CHESTER
Owner's Name:	DOLAN M	Longitude:	753213
Latitude:	400057	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	HILLSIDE
Hydrologic Unit:	02040203	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	155	Casing1 Diameter(inches):	6
Casing 1:	44	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	5-80
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	Not Reported	Yield Measurement Method:	V
Yield (gpm):	20	Test Time:	Not Reported
Drawdown:	Not Reported	Driller:	462
Bedrock:	Not Reported	Water Bearing Zone 2:	140
Water Bearing Zone 1:	73	Lithology:	GRANITE
Water Bearing Zone 3:	Not Reported	Remark:	Not Reported
Municipality:	WILLISTOWN		
Aquifer:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**Q55**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS PASI50000407272**

Objectid:	407272	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	250	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracyc:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	17-JUL-12	Dateupdated:	Not Reported
Datareliabilityc:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15919		
Latituedd:	40.0173		
Longituedd:	-75.54107		
Welladdress:	911 Sorelle Hill Drive Lot 6		
Wellzipcode:	19355	Depthtobedrock:	36
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	03-JUL-12	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	070293
Latestowner:	7470738	Driller scoordme:	1
Latestproduction:	0	Latestwelluse:	9373448
Site id:	PASI50000407272	GeneralCounter:	500530

**Q56**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS PASI50000407326**

Objectid:	407326	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	250	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracyc:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	17-JUL-12	Dateupdated:	Not Reported
Datareliabilityc:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15919		
Latituedd:	40.0173		
Longituedd:	-75.54107		
Welladdress:	911 Sorelle Hill Drive Lot 6		
Wellzipcode:	19355	Depthtobedrock:	36
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	03-JUL-12	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	070293
Latestowner:	7470739	Driller scoordme:	1

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latestproduction: 0  
Site id: PASI50000407326

Latestwelluse: 9912498  
GeneralCounter: 500584

**Q57**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS PASI50000407327**

Objectid:	407327	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	250	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracyc:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	17-JUL-12	Dateupdated:	Not Reported
Datareliabilityc:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15919		
Latitudedd:	40.0173		
Longitudedd:	-75.54107		
Welladdress:	911 Sorelle Hill Drive Lot 6		
Wellzipcode:	19355	Depthtobedrock:	36
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	03-JUL-12	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	070293
Latestowner:	7470740	Driller scoordme:	1
Latestproduction:	0	Latestwelluse:	7833337
Site id:	PASI50000407327	GeneralCounter:	500585

**P58**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS PASI50000111086**

Objectid:	111086	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	6095N	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	S
Welldepth:	155	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	02040203	Latlongaccuracyc:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliabilityc:	L	Sourcedepthdatac:	D
Municipalitycode:	15973		
Latitudedd:	40.0158333333333		
Longitudedd:	-75.5369444444444		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-MAY-80	Pagwis id:	111189
Sourcesitedataco:	2	Localpermit:	Not Reported
Latestowner:	110464	Driller scoordme:	0

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latestproduction: 111687  
Site id: PASI50000111086

Latestwelluse: 113308  
GeneralCounter: 115285

**R59**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**PA WELLS SPAW0057804**

Well ID:	X 0804	County	CHESTER
Owner's Name:	KELLY ANDREW	Longitude:	753250
Latitude:	400124	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	HILLSIDE
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	128	Casing1 Diameter(inches):	6
Casing 1:	40	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-66
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	40	Yield Measurement Method:	1
Yield (gpm):	12	Test Time:	3
Drawdown:	38	Driller:	0904
Bedrock:	Not Reported	Water Bearing Zone 2:	112
Water Bearing Zone 1:	66	Lithology:	SHALE
Water Bearing Zone 3:	Not Reported	Remark:	1841
Municipality:	EAST GOSHEN		
Aquifer:	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION		

**R60**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**PA WELLS PASI50000102265**

Objectid:	102265	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	X 0804	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	S
Welldepth:	128	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15919		
Latitudedd:	40.0233333333333	Depthtobedrock:	0
Longitudedd:	-75.5472222222222	Saltwaterzone:	0
Welladdress:	Not Reported	Pagwis id:	102368
Wellzipcode:	Not Reported	Localpermit:	Not Reported
Bedrocknotreache:	0	Driller scoordme:	0
Datedrilled:	01-JAN-66		
Sourcesitedataco:	2		
Latestowner:	101655		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latestproduction: 102899  
Site id: PASI50000102265

Latestwelluse: 104634  
GeneralCounter: 106464

**S61**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS PASI50000111075**

Objectid:	111075	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	6084N	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSC0	Topographycode:	F
Welldepth:	165	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	02040203	Latlongaccuracy:	T
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15973		
Latitudedd:	40.0186111111111		
Longitudedd:	-75.5225		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	54
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	15-JUN-83	Pagwis id:	111178
Sourcesitedataco:	2	Localpermit:	Not Reported
Latestowner:	110453	Driller scoordme:	0
Latestproduction:	111676	Latestwelluse:	113297
Site id:	PASI50000111075	GeneralCounter:	115274

**S62**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS SPAW0066616**

Well ID:	6084N	County	CHESTER
Owner's Name:	BROWN S	Longitude:	753121
Latitude:	400107	Lat/Long Accuracy:	ACCURATE TO +10 SECONDS
Quadrangle:	MALVERN	Topographic Setting:	FLAT SURFACE
Hydrologic Unit:	02040203	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	165	Casing1 Diameter(inches):	6
Casing 1:	61	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	6-15-83
Grouted:	Not Reported	Production WL:	130
Static Water Level:	8	Yield Measurement Method:	V
Yield (gpm):	6.5	Test Time:	4
Drawdown:	122	Driller:	904
Bedrock:	54	Water Bearing Zone 2:	130
Water Bearing Zone 1:	110	Lithology:	SHALE
Water Bearing Zone 3:	Not Reported	Remark:	RT=GRAY SH
Municipality:	WILLISTOWN		
Aquifer:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**T63**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS USGS40001005641**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-400113075325001		
Monloc name:	CH 1117		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.0203854
Longitude:	-75.5468716	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	540
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Wissahickon Formation, Oligoclase Mica Schist		
Aquifer type:	Not Reported		
Construction date:	19810828	Welldepth:	185
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1986-07-03	57	

**T64**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**PA WELLS PASI50000010919**

Objectid:	10919	Depcounter:	-1
Siteid:	400113075325001	Transactioncount:	1
Localwellnumber:	CH 1117	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	H
Welldepth:	185	Elevation:	540
Elevmethodcode:	M	Accuracyofelevat:	5
Hydrologicunit:	02040202	Latlongaccuracy:	S
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	22-AUG-86	Dateupdated:	03-MAR-90
Datareliability:	C	Sourcedepthdatac:	D
Municipalitycode:	15919		
Latitudedd:	40.0202777777778		
Longitudedd:	-75.5472222222222		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	28-AUG-81	Pagwis id:	10920
Sourcesitedataco:	1	Localpermit:	Not Reported
Latestowner:	10942	Driller scoordme:	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latestproduction: 35350  
Site id: PASI50000010919

Latestwelluse: 10920  
GeneralCounter: 10920

**U65**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS USGS40001005978**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-400152075325401		
Monloc name:	CH 2870		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040202	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.0312184
Longitude:	-75.5479815	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	572
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Countrycode:	US
Aquifername:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Wissahickon Formation, Albite Chlorite Schist		
Aquifer type:	Not Reported		
Construction date:	19500101	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1986-08-13	35.1	

**U66**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**PA WELLS PASI50000010998**

Objectid:	10998	Depcounter:	-1
Siteid:	400152075325401	Transactioncount:	1
Localwellnumber:	CH 2870	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKA	Topographycode:	H
Welldepth:	0	Elevation:	570
Elevmethodcode:	M	Accuracyofelevat:	5
Hydrologicunit:	02040202	Latlongaccuracy:	S
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	22-AUG-86	Dateupdated:	03-MAR-90

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Data reliability:	C	Source depth data:	Z
Municipality code:	15925		
Latitude:	40.0311111111111		
Longitude:	-75.5483333333333		
Well address:	Not Reported		
Well zip code:	Not Reported	Depth to bedrock:	0
Bedrock not reached:	0	Saltwater zone:	0
Date drilled:	01-JAN-50	Pagwis id:	10999
Source site data:	1	Local permit:	Not Reported
Latest owner:	11022	Driller's coordinates:	0
Latest production:	35381	Latest well use:	10999
Site id:	PAS150000010998	General Counter:	10999

**V67**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      PAS150000103348**

Object id:	103348	Dep counter:	-1
Site id:	Not Reported	Transaction count:	0
Local well number:	X 2752	County code:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapg code:	300WSCKA	Topography code:	Not Reported
Well depth:	197	Elevation:	0
Elev method code:	Not Reported	Accuracy of elevat:	Not Reported
Hydrologic unit:	Not Reported	Lat long accuracy:	M
Quad code:	1841	Type of site code:	W
Date created:	03-FEB-99	Date updated:	04-FEB-99
Data reliability:	L	Source depth data:	D
Municipality code:	15925		
Latitude:	40.0380555555556		
Longitude:	-75.5288888888889		
Well address:	Not Reported		
Well zip code:	Not Reported	Depth to bedrock:	10
Bedrock not reached:	0	Saltwater zone:	0
Date drilled:	Not Reported	Pagwis id:	103451
Source site data:	2	Local permit:	Not Reported
Latest owner:	102737	Driller's coordinates:	0
Latest production:	103980	Latest well use:	105704
Site id:	PAS150000103348	General Counter:	107547

**W68**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      PAS150000111204**

Object id:	111204	Dep counter:	-1
Site id:	Not Reported	Transaction count:	0
Local well number:	X 0999	County code:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapg code:	000GRGS	Topography code:	S
Well depth:	162	Elevation:	0
Elev method code:	Not Reported	Accuracy of elevat:	Not Reported
Hydrologic unit:	Not Reported	Lat long accuracy:	M
Quad code:	1841	Type of site code:	W
Date created:	03-FEB-99	Date updated:	04-FEB-99

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Data reliability:	L	Source depth data:	D
Municipality code:	15973		
Latitude:	40.0183333333333		
Longitude:	-75.5194444444444		
Well address:	Not Reported		
Well zip code:	Not Reported	Depth to bedrock:	31
Bedrock not reached:	0	Saltwater zone:	0
Date drilled:	01-JAN-68	Pagwis id:	111307
Source site data:	2	Local permit:	Not Reported
Latest owner:	110582	Driller's coordinates:	0
Latest production:	111805	Latest well use:	113425
Site id:	PAS150000111204	General Counter:	115403

**X69**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      PAS150000111175**

Object id:	111175	Dep counter:	-1
Site id:	Not Reported	Transaction count:	0
Local well number:	X 0012	County code:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapg code:	300WSCKO	Topography code:	S
Well depth:	82	Elevation:	0
Elev method code:	Not Reported	Accuracy of elevat:	Not Reported
Hydrologic unit:	Not Reported	Lat long accuracy:	M
Quad code:	1841	Type of site code:	W
Date created:	03-FEB-99	Date updated:	04-FEB-99
Data reliability:	L	Source depth data:	D
Municipality code:	15973		
Latitude:	40.0147222222222		
Longitude:	-75.5241666666667		
Well address:	Not Reported		
Well zip code:	Not Reported	Depth to bedrock:	17
Bedrock not reached:	0	Saltwater zone:	0
Date drilled:	01-JAN-68	Pagwis id:	111278
Source site data:	2	Local permit:	Not Reported
Latest owner:	110553	Driller's coordinates:	0
Latest production:	111776	Latest well use:	113396
Site id:	PAS150000111175	General Counter:	115374

**V70**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      SPAW0058887**

Well ID:	X 2752	County:	CHESTER
Owner's Name:	HERZAK JOHN	Longitude:	753144
Latitude:	400217	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	Not Reported
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	197	Casing1 Diameter(inches):	6
Casing 1:	20	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Grouted:	Not Reported	Date Drilled:	00-00-00
Static Water Level:	30	Production WL:	Not Reported
Yield (gpm):	3	Yield Measurement Method:	1
Drawdown:	166	Test Time:	1
Bedrock:	10	Driller:	0248
Water Bearing Zone 1:	197	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	EAST WHITELAND	Remark:	1841
Aquifer:	ALBITE CHLORITE SCHIST-WISSAHICKON FORMATION		

**X71**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      SPAW0066716**

Well ID:	X 0012	County	CHESTER
Owner's Name:	AMMON CHARLES	Longitude:	753127
Latitude:	400053	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	HILLSIDE
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	82	Casing1 Diameter(inches):	5
Casing 1:	25	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-68
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	Not Reported	Yield Measurement Method:	Not Reported
Yield (gpm):	Not Reported	Test Time:	Not Reported
Drawdown:	Not Reported	Driller:	0248
Bedrock:	17	Water Bearing Zone 2:	59
Water Bearing Zone 1:	33	Lithology:	OTHER
Water Bearing Zone 3:	71	Remark:	1841
Municipality:	WILLISTOWN		
Aquifer:	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION		

**V72**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      PASI50000011050**

Objectid:	11050	Depcounter:	-1
Siteid:	400218075314401	Transactioncount:	1
Localwellnumber:	CH 1986	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKA	Topographycode:	S
Welldepth:	197	Elevation:	500
Elevmethodcode:	M	Accuracyofelevat:	5
Hydrologicunit:	02040203	Latlongaccuracy:	S
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	10-DEC-76	Dateupdated:	03-MAR-90
Datareliability:	C	Sourcedepthdatac:	Z
Municipalitycode:	15925		
Latitudedd:	40.0383333333333		
Longitudedd:	-75.5288888888889		
Welladdress:	Not Reported	Depthtobedrock:	0
Wellzipcode:	Not Reported	Saltwaterzone:	0
Bedrocknotreache:	0	Pagwis id:	11051
Datedrilled:	10-MAY-71	Localpermit:	Not Reported
Sourcesitedataco:	1	Driller scoordme:	0
Latestowner:	11081		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latestproduction: 7955  
Site id: PASI50000011050

Latestwelluse: 11051  
GeneralCounter: 11051

**Y73**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS PASI50000399519**

Objectid: 399519  
Siteid: Not Reported  
Localwellnumber: Not Reported  
Latitude: Not Reported  
Aapgcode: Not Reported  
Welldepth: 330  
Elevmethodcode: Not Reported  
Hydrologicunit: Not Reported  
Quadcode: 0  
Datecreated: 10-MAY-11  
Datareliabilityc: Not Reported  
Municipalitycode: 15973  
Latitudedd: 40.0134  
Longitudedd: -75.52704  
Welladdress: 3 Joanna Drive  
Wellzipcode: 19355  
Bedrocknotreache: 0  
Datedrilled: 05-MAY-11  
Sourcesitedataco: 3  
Latestowner: 7449824  
Latestproduction: 4481447  
Site id: PASI50000399519

Depcounter: -1  
Transactioncount: 0  
Countycode: 029  
Longitude: Not Reported  
Topographycode: Not Reported  
Elevation: 0  
Accuracyofelevat: Not Reported  
Latlongaccuracyc: Not Reported  
Typeofsitecode: W  
Dateupdated: Not Reported  
Sourcedepthdatac: Not Reported

Depthtobedrock: 69  
Saltwaterzone: 0  
Pagwis id: 0  
Localpermit: 067842  
Driller scoordme: 1  
Latestwelluse: 9851913  
GeneralCounter: 492777

**Y74**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS PASI50000399518**

Objectid: 399518  
Siteid: Not Reported  
Localwellnumber: Not Reported  
Latitude: Not Reported  
Aapgcode: Not Reported  
Welldepth: 330  
Elevmethodcode: Not Reported  
Hydrologicunit: Not Reported  
Quadcode: 0  
Datecreated: 10-MAY-11  
Datareliabilityc: Not Reported  
Municipalitycode: 15973  
Latitudedd: 40.0134  
Longitudedd: -75.52704  
Welladdress: 3 Joanna Drive  
Wellzipcode: 19355  
Bedrocknotreache: 0  
Datedrilled: 05-MAY-11  
Sourcesitedataco: 3  
Latestowner: 7460062

Depcounter: -1  
Transactioncount: 0  
Countycode: 029  
Longitude: Not Reported  
Topographycode: Not Reported  
Elevation: 0  
Accuracyofelevat: Not Reported  
Latlongaccuracyc: Not Reported  
Typeofsitecode: W  
Dateupdated: Not Reported  
Sourcedepthdatac: Not Reported

Depthtobedrock: 69  
Saltwaterzone: 0  
Pagwis id: 0  
Localpermit: 067842  
Driller scoordme: 1

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latestproduction: 4486787  
Site id: PASI50000399518

Latestwelluse: 7335727  
GeneralCounter: 492776

**Y75**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS PASI50000400137**

Objectid:	400137	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	248	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracyc:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	10-MAY-11	Dateupdated:	Not Reported
Datareliabilityc:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.0134		
Longitudedd:	-75.52704		
Welladdress:	3 Joanna Drive		
Wellzipcode:	19355	Depthtobedrock:	69
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	05-MAY-11	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	067842
Latestowner:	7458221	Driller scoordme:	1
Latestproduction:	4483243	Latestwelluse:	7335876
Site id:	PASI50000400137	GeneralCounter:	493395

**Y76**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS PASI50000400136**

Objectid:	400136	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	248	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracyc:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	10-MAY-11	Dateupdated:	Not Reported
Datareliabilityc:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15973		
Latitudedd:	40.0134		
Longitudedd:	-75.52704		
Welladdress:	3 Joanna Drive		
Wellzipcode:	19355	Depthtobedrock:	69
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	05-MAY-11	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	067842
Latestowner:	7465628	Driller scoordme:	1

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latestproduction: 4489120  
Site id: PASI50000400136

Latestwelluse: 9874666  
GeneralCounter: 493394

**W77**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS SPAW0066745**

Well ID:	X 0999	County	CHESTER
Owner's Name:	STEFANIK PAUL	Longitude:	753110
Latitude:	400106	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	HILLSIDE
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	162	Casing1 Diameter(inches):	5
Casing 1:	31	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-68
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	50	Yield Measurement Method:	1
Yield (gpm):	10	Test Time:	Not Reported
Drawdown:	110	Driller:	0248
Bedrock:	31	Water Bearing Zone 2:	122
Water Bearing Zone 1:	81	Lithology:	OTHER
Water Bearing Zone 3:	151	Remark:	1841
Municipality:	WILLISTOWN		
Aquifer:	GRANITE & GRANITE GNEISS		

**W78**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS PASI50000111198**

Objectid:	111198	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	X 0989	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	S
Welldepth:	108	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15973		
Latitudedd:	40.0183333333333	Depthtobedrock:	40
Longitudedd:	-75.5191666666667	Saltwaterzone:	0
Welladdress:	Not Reported	Pagwis id:	111301
Wellzipcode:	Not Reported	Localpermit:	Not Reported
Bedrocknotreache:	0	Driller scoordme:	0
Datedrilled:	01-JAN-68		
Sourcesitedataco:	2		
Latestowner:	110576		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latest production: 111799  
Site id: PASI50000111198

Latest well use: 113419  
General Counter: 115397

**V79**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS USGS40001006230**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-400218075314401		
Monloc name:	CH 1986		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040203	Drainage area value:	Not Reported
Drainage area Units:	Not Reported	Contrib drainage area:	Not Reported
Contrib drainage area units:	Not Reported	Latitude:	40.0384405
Longitude:	-75.5285348	Source map scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	500
Vert measure units:	feet	Vert acc measure val:	5
Vert acc measure units:	feet		
Vert collection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Country code:	US
Aquifer name:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Wissahickon Formation, Albite Chlorite Schist		
Aquifer type:	Not Reported		
Construction date:	19710510	Well depth:	197
Well depth units:	ft	Well hole depth:	Not Reported
Well hole depth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1971-05-10	30.0	

**W80**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS SPAW0066739**

Well ID:	X 0989	County:	CHESTER
Owner's Name:	MANU HARWARE PA	Longitude:	753109
Latitude:	400106	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	HILLSIDE
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	INDUSTRIAL	Finish:	OPEN HOLE
Well Depth:	108	Casing1 Diameter(inches):	6
Casing 1:	40	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-68
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	Not Reported	Yield Measurement Method:	1
Yield (gpm):	11	Test Time:	Not Reported
Drawdown:	Not Reported	Driller:	0308
Bedrock:	40	Water Bearing Zone 2:	100
Water Bearing Zone 1:	45	Lithology:	OTHER
Water Bearing Zone 3:	Not Reported	Remark:	1841
Municipality:	WILLISTOWN		
Aquifer:	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**Z81**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS PASI50000012827**

Objectid:	12827	Depcounter:	-1
Siteid:	400221075321201	Transactioncount:	1
Localwellnumber:	CH 2432	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300OCRR	Topographycode:	S
Welldepth:	300	Elevation:	410
Elevmethodcode:	M	Accuracyofelevat:	5
Hydrologicunit:	Not Reported	Latlongaccuracy:	F
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-JAN-84	Dateupdated:	01-JUL-97
Datareliability:	C	Sourcedepthdata:	Z
Municipalitycode:	15925		
Latituedd:	40.0388888888889		
Longituedd:	-75.5366666666667		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-APR-50	Pagwis id:	12828
Sourcesitedataco:	1	Localpermit:	Not Reported
Latestowner:	12919	Driller scoordme:	0
Latestproduction:	36285	Latestwelluse:	12828
Site id:	PASI50000012827	GeneralCounter:	12828

**AA82**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**PA WELLS PASI500000404343**

Objectid:	404343	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	400	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	21-JAN-11	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdata:	Not Reported
Municipalitycode:	15938		
Latituedd:	40.03263		
Longituedd:	-75.51858		
Welladdress:	151 Griffith Avenue		
Wellzipcode:	19355	Depthtobedrock:	42
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	21-OCT-10	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	069314
Latestowner:	7460388	Driller scoordme:	3

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latestproduction: 0  
Site id: PASI50000404343

Latestwelluse: 9932296  
GeneralCounter: 497601

**AA83  
ENE  
1/2 - 1 Mile  
Higher**

**PA WELLS PASI50000399224**

Objectid: 399224  
Siteid: Not Reported  
Localwellnumber: Not Reported  
Latitude: Not Reported  
Aapgcode: Not Reported  
Welldepth: 400  
Elevmethodcode: Not Reported  
Hydrologicunit: Not Reported  
Quadcode: 1841  
Datecreated: 05-NOV-10  
Datareliabilityc: Not Reported  
Municipalitycode: 15938  
Latitudedd: 40.03272  
Longitudedd: -75.51861  
Welladdress: 151 Griffith Avenue  
Wellzipcode: 19355  
Bedrocknotreache: 0  
Datedrilled: 21-OCT-10  
Sourcesitedataco: 3  
Latestowner: 7462738  
Latestproduction: 0  
Site id: PASI50000399224

Depcounter: -1  
Transactioncount: 0  
Countycode: 029  
Longitude: Not Reported  
Topographycode: Not Reported  
Elevation: 0  
Accuracyofelevat: Not Reported  
Latlongaccuracyc: Not Reported  
Typeofsitecode: W  
Dateupdated: Not Reported  
Sourcedepthdatac: Not Reported

Depthtobedrock: 42  
Saltwaterzone: 0  
Pagwis id: 0  
Localpermit: 069314  
Driller scoordme: 3  
Latestwelluse: 7320586  
GeneralCounter: 492482

**AA84  
ENE  
1/2 - 1 Mile  
Higher**

**PA WELLS PASI50000409921**

Objectid: 409921  
Siteid: Not Reported  
Localwellnumber: Not Reported  
Latitude: Not Reported  
Aapgcode: Not Reported  
Welldepth: 302  
Elevmethodcode: Not Reported  
Hydrologicunit: Not Reported  
Quadcode: 1841  
Datecreated: 14-NOV-12  
Datareliabilityc: Not Reported  
Municipalitycode: 15938  
Latitudedd: 40.032116  
Longitudedd: -75.518033  
Welladdress: 145 Griffiths Avenue  
Wellzipcode: 19355  
Bedrocknotreache: 0  
Datedrilled: 10-JUL-12  
Sourcesitedataco: 3  
Latestowner: 7473270

Depcounter: -1  
Transactioncount: 0  
Countycode: 029  
Longitude: Not Reported  
Topographycode: Not Reported  
Elevation: 0  
Accuracyofelevat: Not Reported  
Latlongaccuracyc: Not Reported  
Typeofsitecode: W  
Dateupdated: Not Reported  
Sourcedepthdatac: Not Reported

Depthtobedrock: 20  
Saltwaterzone: 0  
Pagwis id: 0  
Localpermit: 070168 Loop #2  
Driller scoordme: 1

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latestproduction: 4495370  
Site id: PASI50000409921

Latestwelluse: 7934894  
GeneralCounter: 503179

**AA85  
ENE  
1/2 - 1 Mile  
Higher**

**PA WELLS PASI50000409866**

Objectid:	409866	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	302	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracyc:	Not Reported
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	14-NOV-12	Dateupdated:	Not Reported
Datareliabilityc:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15938		
Latitudedd:	40.03208		
Longitudedd:	-75.517983		
Welladdress:	145 Griffiths Avenue		
Wellzipcode:	19355	Depthtobedrock:	33
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	09-JUL-12	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	070168 Loop #1
Latestowner:	7473269	Driller scoordme:	1
Latestproduction:	4495369	Latestwelluse:	7934893
Site id:	PASI50000409866	GeneralCounter:	503124

**AA86  
ENE  
1/2 - 1 Mile  
Higher**

**PA WELLS PASI50000409922**

Objectid:	409922	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	302	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracyc:	Not Reported
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	14-NOV-12	Dateupdated:	Not Reported
Datareliabilityc:	Not Reported	Sourcedepthdatac:	Not Reported
Municipalitycode:	15938		
Latitudedd:	40.03215		
Longitudedd:	-75.518016		
Welladdress:	145 Griffiths Avenue		
Wellzipcode:	19355	Depthtobedrock:	45
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	16-JUL-12	Pagwis id:	0
Sourcesitedataco:	3	Localpermit:	070168 Loop #3
Latestowner:	7473271	Driller scoordme:	1

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latestproduction:	4495371	Latestwelluse:	9779059
Site id:	PASI50000409922	GeneralCounter:	503180

**Z87**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      PASI50000011057**

Objectid:	11057	Depcounter:	-1
Siteid:	400224075321201	Transactioncount:	1
Localwellnumber:	CH 1112	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300OCRR	Topographycode:	S
Welldepth:	20	Elevation:	395
Elevmethodcode:	M	Accuracyofelevat:	5
Hydrologicunit:	02040203	Latlongaccuracyc:	S
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	22-AUG-86	Dateupdated:	03-MAR-90
Datareliabilityc:	C	Sourcedepthdatac:	Z
Municipalitycode:	15925		
Latitudedd:	40.0391666666667		
Longitudedd:	-75.5363888888889		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	Not Reported	Pagwis id:	11058
Sourcesitedataco:	1	Localpermit:	Not Reported
Latestowner:	11089	Driller scoordme:	0
Latestproduction:	35400	Latestwelluse:	11058
Site id:	PASI50000011057	GeneralCounter:	11058

**AB88**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      PASI50000103295**

Objectid:	103295	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	5580N	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKA	Topographycode:	S
Welldepth:	100	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	02040203	Latlongaccuracyc:	T
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliabilityc:	L	Sourcedepthdatac:	D
Municipalitycode:	15925		
Latitudedd:	40.0377777777778		
Longitudedd:	-75.5252777777778		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	26
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	10-NOV-83	Pagwis id:	103398
Sourcesitedataco:	2	Localpermit:	Not Reported
Latestowner:	102684	Driller scoordme:	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latest production: 103927  
Site id: PASI50000103295

Latest well use: 105651  
General Counter: 107494

**Z89**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS USGS40001006265**

Org. Identifier:	USGS-PA		
Formal name:	USGS Pennsylvania Water Science Center		
Monloc Identifier:	USGS-400221075321201		
Monloc name:	CH 2432		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02040205	Drainage area value:	Not Reported
Drainage area Units:	Not Reported	Contrib drainage area:	Not Reported
Contrib drainage area units:	Not Reported	Latitude:	40.0392738
Longitude:	-75.5363131	Source map scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	410
Vert measure units:	feet	Vert acc measure val:	5
Vert acc measure units:	feet		
Vert collection method:	Interpolated from topographic map		
Vert coord refs:	NGVD29	Country code:	US
Aquifer name:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation type:	Wissahickon Formation, Oligoclase Mica Schist		
Aquifer type:	Not Reported		
Construction date:	19500401	Well depth:	300
Well depth units:	ft	Well hole depth:	Not Reported
Well hole depth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1983-11-09	33.61	

**AB90**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS SPAW0058834**

Well ID:	5580N	County:	CHESTER
Owner's Name:	CONSALVI D	Longitude:	753131
Latitude:	400216	Lat/Long Accuracy:	ACCURATE TO +10 SECONDS
Quadrangle:	MALVERN	Topographic Setting:	HILLSIDE
Hydrologic Unit:	02040203	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	100	Casing1 Diameter(inches):	6
Casing 1:	40	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	11-10-83
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	Not Reported	Yield Measurement Method:	E
Yield (gpm):	35	Test Time:	Not Reported
Drawdown:	Not Reported	Driller:	319
Bedrock:	26	Water Bearing Zone 2:	80
Water Bearing Zone 1:	65	Lithology:	OTHER
Water Bearing Zone 3:	86	Remark:	RT=GRAY SCHIST
Municipality:	EAST WHITE LAND		
Aquifer:	ALBITE CHLORITE SCHIST-WISSAHICKON FORMATION		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**AC91**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS PASI50000103324**

Objectid:	103324	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	7324N	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	367CNSG	Topographycode:	F
Welldepth:	25	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	02040203	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15925		
Latitudedd:	40.0388888888889		
Longitudedd:	-75.5394444444444		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	19
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-APR-87	Pagwis id:	103427
Sourcesitedata:	2	Localpermit:	Not Reported
Latestowner:	102713	Driller scoordme:	0
Latestproduction:	103956	Latestwelluse:	105680
Site id:	PASI50000103324	GeneralCounter:	107523

**AC92**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS SPAW0058863**

Well ID:	7324N	County	CHESTER
Owner's Name:	POLLUTION	Longitude:	753222
Latitude:	400220	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	FLAT SURFACE
Hydrologic Unit:	02040203	Site Usage:	TEST
Water Usage:	INDUSTRIAL	Finish:	PERFORATED OR SLOTTED
Well Depth:	25	Casing1 Diameter(inches):	2
Casing 1:	25	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	4-87
Grouted:	Yes	Production WL:	25
Static Water Level:	Not Reported	Yield Measurement Method:	V
Yield (gpm):	5	Test Time:	0.5
Drawdown:	Not Reported	Driller:	188
Bedrock:	19	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	20	Lithology:	LIMESTONE
Water Bearing Zone 3:	Not Reported	Remark:	CAS.MAT=PLST;19FT=SANDY
Municipality:	EAST WHITELAND		
Aquifer:	CONESTOGA FORMATION		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**AD93**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS SPAW0057805**

Well ID:	X 0920	County	CHESTER
Owner's Name:	BETZ FRED	Longitude:	753232
Latitude:	400047	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	HILLSIDE
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	90	Casing1 Diameter(inches):	5
Casing 1:	27	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-67
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	6	Yield Measurement Method:	1
Yield (gpm):	6	Test Time:	Not Reported
Drawdown:	84	Driller:	0248
Bedrock:	21	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	50	Lithology:	OTHER
Water Bearing Zone 3:	Not Reported	Remark:	1841
Municipality:	EAST GOSHEN		
Aquifer:	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION		

**AD94**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS SPAW0057807**

Well ID:	X 0991	County	CHESTER
Owner's Name:	BETZ FRED	Longitude:	753232
Latitude:	400047	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	HILLSIDE
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	120	Casing1 Diameter(inches):	5
Casing 1:	39	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-67
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	32	Yield Measurement Method:	1
Yield (gpm):	5	Test Time:	1
Drawdown:	87	Driller:	0248
Bedrock:	Not Reported	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	45	Lithology:	OTHER
Water Bearing Zone 3:	Not Reported	Remark:	1841
Municipality:	EAST GOSHEN		
Aquifer:	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION		

**AD95**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS SPAW0057808**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well ID:	X 0992	County	CHESTER
Owner's Name:	BETZ FRED	Longitude:	753232
Latitude:	400047	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	HILLSIDE
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	100	Casing1 Diameter(inches):	5
Casing 1:	61	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-67
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	30	Yield Measurement Method:	1
Yield (gpm):	12	Test Time:	1
Drawdown:	70	Driller:	0248
Bedrock:	Not Reported	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	35	Lithology:	OTHER
Water Bearing Zone 3:	Not Reported	Remark:	1841
Municipality:	EAST GOSHEN		
Aquifer:	OLIGOCLASE MICA SCHIST-WISSAHICKON FORMATION		

**AC96  
NNW  
1/2 - 1 Mile  
Lower**

**PA WELLS PASI50000103326**

Objectid:	103326	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	7326N	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	367CNSG	Topographycode:	F
Welldepth:	30	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	02040203	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15925		
Latitudedd:	40.0391666666667	Depthtobedrock:	22
Longitudedd:	-75.5386111111111	Saltwaterzone:	0
Welladdress:	Not Reported	Pagwis id:	103429
Wellzipcode:	Not Reported	Localpermit:	Not Reported
Bedrocknotreache:	0	Driller scoordme:	0
Datedrilled:	01-APR-87	Latestwelluse:	105682
Sourcesitedata:	2	GeneralCounter:	107525
Latestowner:	102715		
Latestproduction:	103958		
Site id:	PASI50000103326		

**AC97  
NNW  
1/2 - 1 Mile  
Lower**

**PA WELLS PASI50000103325**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	103325	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	7325N	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	367CNSG	Topographycode:	F
Welldepth:	36	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	02040203	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15925		
Latitudedd:	40.0391666666667		
Longitudedd:	-75.5388888888889		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-APR-87	Pagwis id:	103428
Sourcesitedataco:	2	Localpermit:	Not Reported
Latestowner:	102714	Driller scoordme:	0
Latestproduction:	103957	Latestwelluse:	105681
Site id:	PASI50000103325	GeneralCounter:	107524

**AC98  
NNW  
1/2 - 1 Mile  
Lower**

**PA WELLS      SPAW0058865**

Well ID:	7326N	County	CHESTER
Owner's Name:	POLLUTION	Longitude:	753219
Latitude:	400221	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	FLAT SURFACE
Hydrologic Unit:	02040203	Site Usage:	TEST
Water Usage:	INDUSTRIAL	Finish:	PERFORATED OR SLOTTED
Well Depth:	30	Casing1 Diameter(inches):	2
Casing 1:	30	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	4-87
Grouted:	Yes	Production WL:	30
Static Water Level:	10	Yield Measurement Method:	V
Yield (gpm):	6	Test Time:	0.5
Drawdown:	20	Driller:	188
Bedrock:	22	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	14	Lithology:	LIMESTONE
Water Bearing Zone 3:	Not Reported	Remark:	CAS.MAT=PLST;22FT=SANDY
Municipality:	EAST WHITELAND		
Aquifer:	CONESTOGA FORMATION		

**AC99  
NNW  
1/2 - 1 Mile  
Lower**

**PA WELLS      PASI50000103323**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	103323	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	7323N	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	367CNSG	Topographycode:	F
Welldepth:	25	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	02040203	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15925		
Latitudedd:	40.0388888888889		
Longitudedd:	-75.54		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	18
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-APR-87	Pagwis id:	103426
Sourcesitedataco:	2	Localpermit:	Not Reported
Latestowner:	102712	Driller scoordme:	0
Latestproduction:	103955	Latestwelluse:	105679
Site id:	PASI50000103323	GeneralCounter:	107522

**AC100**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      SPAW0058862**

Well ID:	7323N	County	CHESTER
Owner's Name:	POLLUTION	Longitude:	753224
Latitude:	400220	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	FLAT SURFACE
Hydrologic Unit:	02040203	Site Usage:	TEST
Water Usage:	INDUSTRIAL	Finish:	PERFORATED OR SLOTTED
Well Depth:	25	Casing1 Diameter(inches):	2
Casing 1:	25	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	4-87
Grouted:	Yes	Production WL:	25
Static Water Level:	Not Reported	Yield Measurement Method:	E
Yield (gpm):	6	Test Time:	0.5
Drawdown:	Not Reported	Driller:	188
Bedrock:	18	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	23	Lithology:	LIMESTONE
Water Bearing Zone 3:	Not Reported	Remark:	CAS.MAT=PLST;18FT=SANDY
Municipality:	EAST WHITELAND		
Aquifer:	CONESTOGA FORMATION		

**AC101**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      SPAW0058864**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well ID:	7325N	County	CHESTER
Owner's Name:	POLLUTION	Longitude:	753220
Latitude:	400221	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	MALVERN	Topographic Setting:	FLAT SURFACE
Hydrologic Unit:	02040203	Site Usage:	TEST
Water Usage:	INDUSTRIAL	Finish:	PERFORATED OR SLOTTED
Well Depth:	36	Casing1 Diameter(inches):	2
Casing 1:	36	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	4-87
Grouted:	Yes	Production WL:	36
Static Water Level:	Not Reported	Yield Measurement Method:	E
Yield (gpm):	Not Reported	Test Time:	Not Reported
Drawdown:	36	Driller:	188
Bedrock:	Not Reported	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	Not Reported	Lithology:	Not Reported
Water Bearing Zone 3:	Not Reported	Remark:	CAS.MAT=PLST;36FT=SANDY
Municipality:	EAST WHITELAND		
Aquifer:	CONESTOGA FORMATION		

**AD102**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      PASI50000102268**

Objectid:	102268	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	X 0991	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	S
Welldepth:	120	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15919		
Latituddd:	40.0130555555556		
Longitudedd:	-75.5422222222222		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-JAN-67	Pagwis id:	102371
Sourcesitedata:	2	Localpermit:	Not Reported
Latestowner:	101658	Driller scoordme:	0
Latestproduction:	102902	Latestwelluse:	104637
Site id:	PASI50000102268	GeneralCounter:	106467

**AD103**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**PA WELLS      PASI50000102266**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	102266	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	X 0920	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	S
Welldepth:	90	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15919		
Latitudedd:	40.0130555555556		
Longitudedd:	-75.5422222222222		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	21
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-JAN-67	Pagwis id:	102369
Sourcesitedata:	2	Localpermit:	Not Reported
Latestowner:	101656	Driller scoordme:	0
Latestproduction:	102900	Latestwelluse:	104635
Site id:	PASI50000102266	GeneralCounter:	106465

### AD104 SSW 1/2 - 1 Mile Lower

PA WELLS PASI50000102269

Objectid:	102269	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	X 0992	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKO	Topographycode:	S
Welldepth:	100	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	M
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15919		
Latitudedd:	40.0130555555556		
Longitudedd:	-75.5422222222222		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-JAN-67	Pagwis id:	102372
Sourcesitedata:	2	Localpermit:	Not Reported
Latestowner:	101659	Driller scoordme:	0
Latestproduction:	102903	Latestwelluse:	104638
Site id:	PASI50000102269	GeneralCounter:	106468

### AB105 NNE 1/2 - 1 Mile Lower

PA WELLS PASI50000103294

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	103294	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	5579N	Countycode:	029
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	300WSCKA	Topographycode:	S
Welldepth:	202	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	02040203	Latlongaccuracy:	T
Quadcode:	1841	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	15925		
Latitudedd:	40.0386111111111		
Longitudedd:	-75.5255555555556		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	20
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-OCT-84	Pagwis id:	103397
Sourcesitedata:	2	Localpermit:	Not Reported
Latestowner:	102683	Driller scoordme:	0
Latestproduction:	103926	Latestwelluse:	105650
Site id:	PASI50000103294	GeneralCounter:	107493

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

### AREA RADON INFORMATION

State Database: PA Radon

#### Radon Test Results

Zipcode	Num Tests	Min pCi/L	Max pCi/L	Avg pCi/L
19355	5223	0	250	7.7

EPA Region 3 Statistical Summary Readings for Zip Code: 19355

Number of sites tested: 3055.

Maximum Radon Level: 172.6 pCi/L.

Minimum Radon Level: 0.1 pCi/L.

pCi/L <4	pCi/L 4-10	pCi/L 10-20	pCi/L 20-50	pCi/L 50-100	pCi/L >100
1808 (59.18%)	684 (22.39%)	296 (9.69%)	195 (6.38%)	56 (1.83%)	16 (0.52%)

Federal EPA Radon Zone for CHESTER County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetlands Inventory

Source: Pennsylvania Spatial Data Access

Telephone: 610-344-6105

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Pennsylvania Public Water Supply Wells

Source: Pennsylvania Department of Environmental Resources Bureau of Water Supply

Telephone: 717-787-5017

#### Pennsylvania Groundwater Information System

Source: Department of Conservation and Natural Resources

Telephone: 717-702-2045

## OTHER STATE DATABASE INFORMATION

#### Pennsylvania Oil and Gas Locations

Source: Pennsylvania Department of Environmental Protection

Telephone: 814-863-0104

An Oil and Gas Location is a DEP primary facility type related to the Oil & Gas Program. The sub-facility types related to Oil and Gas that are included in this layer are: Land Application -- An area where drilling cuttings or waste are disposed by land application; Well -- A well associated with oil and/or gas production; Pit -- An approved pit that is used for storage of oil and gas well fluids. Some sub facility types are not included in this layer due to security policies.

### RADON

#### State Database: PA Radon

Source: Department of Environmental Protection

Telephone: 717-783-3594

Radon Test Results Statistics by Zip Code

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### EPA Region 3 Statistical Summary Readings

Source: Region 3 EPA

Telephone: 215-814-2082

Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

### STREET AND ADDRESS INFORMATION

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## **APPENDIX D**

### **LOCAL AND STATE ENVIRONMENTAL RECORDS**

**Board of Supervisors of Willistown Township**

**Chester County**

688 Sugartown Road

Malvern, PA 19355

Phone (610) 647-5300

Fax (610) 647-8156

**RIGHT-TO-KNOW REQUEST FORM**

Date Requested: 5/5/17

Submitted Via: ☒ E-MAIL    ☐ U.S. MAIL    ☐ FAX    ☐ IN-PERSON

**REQUESTER INFORMATION**

Name: Valerie Daberkoo/EnviroSure, Inc.

Street Address (Required): 319 South High Street, 1st Floor

City, State, Zip Code (Required): West Chester, PA 19382

Telephone (Optional): 610-694-8980

E-mail Address (Optional): valerie@envirosureinc.com

**RECORDS REQUESTED**

Please provide **as much specific detail as possible** so the Township can identify the information.

*EnviroSure is conducting a Phase I ESA at Troutbeck Farm, 730 Monument Road. In that regard, we are requesting a search of all files pertaining to the property. Especially underground storage tanks, environmental concerns and ownership records.*

**Check one of the following:**

☒ I would like to inspect the records.

☐ I would like copies of records.

Do you want certified copies of records?    ☐ Yes    ☐ No

(Additional fees may apply. See RTKL: §1307)

• For Office Use Only •

RTKL Officer: \_\_\_\_\_ RTKL Request Number: \_\_\_\_\_

Date Received: \_\_\_\_\_ Five Business Days From Date Received: \_\_\_\_\_

Date of Extension Letter, if any: \_\_\_\_\_ Date Request Fulfilled: \_\_\_\_\_

*Public bodies may fill anonymous verbal or written requests. If the requester wishes to pursue the relief and remedies provided for in this Act, the request must be in writing (§702.) Written requests need not include an explanation why information is sought or the intended use of the information unless otherwise required by law (§703.)*



Valerie Daberkoe &lt;valerie@envirosureinc.com&gt;

---

**11442 Right to Know Request**

1 message

**Valerie Daberkoe** <valerie@envirosureinc.com>

Fri, May 5, 2017 at 3:11 PM

To: recordsofficer@willistown.pa.us

Good Afternoon,

Please find attached a Right to Know Request related to Troutbeck Farm, 730 Monument Road.

Thank you.

**Valerie Daberkoe**

Office Manager



319 S. High Street, 1st Floor

West Chester, PA 19382

P: 610.696.8980

F: 610.696.8984

**11442 Right to Know Request.pdf**

345K



Kevin Casey &lt;kevin@envirosureinc.com&gt;

---

**Fwd: FW: 11442 Right to Know Request**

1 message

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**Valerie Daberkoe** <valerie@envirosureinc.com>

Thu, May 11, 2017 at 1:07 PM

To: Kevin Casey &lt;kevin@envirosureinc.com&gt;, Jennifer Morganti &lt;jennifer@envirosureinc.com&gt;

FYI.

**Valerie Daberkoe**  
Office Manager319 S. High Street, 1st Floor  
West Chester, PA 19382  
P: [610.696.8980](tel:610.696.8980)  
F: [610.696.8984](tel:610.696.8984)

----- Forwarded message -----

From: **David Burman** <[dburman@willistown.pa.us](mailto:dburman@willistown.pa.us)>

Date: Thu, May 11, 2017 at 12:46 PM

Subject: RE: FW: 11442 Right to Know Request

To: Valerie Daberkoe <[valerie@envirosureinc.com](mailto:valerie@envirosureinc.com)>

Hi Valerie,

We are pulling the requested files.

Please be advised, RTKL §902 provides for an extension of time of up to thirty (30) days when certain circumstances are met. A timely response to your request cannot be accomplished because: (a) some or all of the responsive records may require redaction in accordance with RTKL §706; (b) of the nature and extent of your Request and/or: (c) of bona fide staffing limitations. See: RTKL §§902(a)(1), (2) and (7). In addition, a legal review may be necessary to determine whether the records you have requested are subject to total or partial access under the Right to Know Law or other laws. See: RTKL §902(a)(4).

Please be advised that the Township will provide a substantive response to your request within 30-days of this correspondence, no later than June 2, 2017.

Thank you,

-Dave

David Burman  
Township Manager  
Willistown Township  
[610-647-5300](tel:610-647-5300)

**From:** Valerie Daberkoe [mailto:[valerie@envirosureinc.com](mailto:valerie@envirosureinc.com)]  
**Sent:** Tuesday, May 9, 2017 3:14 PM  
**To:** David Burman <[dburman@willistown.pa.us](mailto:dburman@willistown.pa.us)>  
**Subject:** Re: FW: 11442 Right to Know Request

Hi Dave,

Please see the attached map with the parcel numbers.

Thanks.

**Valerie Daberkoe**

Office Manager



319 S. High Street, 1st Floor  
West Chester, PA 19382  
P: [610.696.8980](tel:610.696.8980)  
F: [610.696.8984](tel:610.696.8984)

On Tue, May 9, 2017 at 2:31 PM, David Burman <[dburman@willistown.pa.us](mailto:dburman@willistown.pa.us)> wrote:

## REQUEST FOR INFORMAL FILE REVIEW

(NOTE: THIS FORM IS NOT USED FOR A PA RIGHT-TO-KNOW LAW REQUEST)

YOUR NAME: Valerie Daberkoe DATE: 5/5/17

YOUR COMPANY NAME: EnviroSure, Inc.

ADDRESS: 319 South High Street, 1st Floor  
West Chester, PA 19382

TELEPHONE: 610-696-8980 E-MAIL: valerie@envirosureinc.com

REASON FOR REQUEST: File Review

FILES NEED FOR REVIEW: (Please Circle)

<u>AIR QUALITY</u>	<u>WATERWAYS AND WETLANDS</u>	<u>SAFE DRINKING WATER</u>
<u>CLEAN WATER</u>	<u>RADIATION PROTECTION</u>	<u>EMERGENCY RESPONSE</u>
<u>WASTE MANAGEMENT</u>	<u>GROWING GREENER</u>	<u>ENVIRONMENTAL CLEANUP AND BROWNFIELDS (STORAGE TANKS AND HAZARDOUS SITES)</u>
<u>POLLUTION PREVENTION &amp; ENERGY ASSISTANCE</u>		

TIME FRAME: \_\_\_\_ 1 YEAR \_\_\_\_ 2 YEARS \_\_\_\_ 3 YEARS OR All YEARS BACK

COUNTY: (Please Circle)

BUCKS CHESTER DELAWARE MONTGOMERY PHILADELPHIA

SITE NAME AND SITE ADDRESS

MUNICIPALITY

PERMIT NO. OR FACILITY ID NO.

Troutbeck Farm  
730 Monument Road Willistown Township

TO RETURN: FAX: 484.250.5914 OR E-MAIL TO: [RA-SERecordsReview@state.pa.us](mailto:RA-SERecordsReview@state.pa.us)

MAIL: DEPARTMENT OF ENVIRONMENTAL PROTECTION

2 EAST MAIN STREET

NORRISTOWN, PA 19401-4915

ATTENTION: RECORDS MANAGEMENT

IF YOU ARE NOT SATISFIED WITH THIS FILE REVIEW PROCESS, YOU MAY WISH TO EXERCISE YOUR RIGHTS UNDER THE "PA RIGHT-TO-KNOW LAW" AS DESCRIBED ON THE DEP WEBSITE (WWW.DEP.PA.GOV)



Valerie Daberkoe &lt;valerie@envirosureinc.com&gt;

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**11442 Informal File Review Request**

1 message

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**Valerie Daberkoe** <valerie@envirosureinc.com>  
To: RA-SERecordsReview@state.pa.us

Fri, May 5, 2017 at 2:59 PM

Hi Jo Anne:

Please find attached an Informal File Review Request related to Troutbeck Farm, 730 Monument Road in Willistown Township, Chester County.

Thank you.

**Valerie Daberkoe**  
Office Manager



319 S. High Street, 1st Floor  
West Chester, PA 19382  
P: [610.696.8980](tel:610.696.8980)  
F: [610.696.8984](tel:610.696.8984)

**11442 Informal File Review.pdf**  
384K



Valerie Daberkoe &lt;valerie@envirosureinc.com&gt;

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## 11442 Informal File Review Request

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**EP, SE Records Review** <RA-SERecordsReview@pa.gov>  
To: Valerie Daberkoe <valerie@envirosureinc.com>

Mon, May 8, 2017 at 8:51 AM

Hi, Valerie.

We don't have any files coming up in our database for the address or site name in your attached request.

Thanks and have a great day.

Jo Anne

Jo Anne O'Hara | Clerk Typist 2  
Department of Environmental Protection | Southeast Regional Office  
2 East Main Street | Norristown, PA 19401  
Phone: 484-250-5910 | Fax: 484-250-5914  
[www.depweb.state.pa.us](http://www.depweb.state.pa.us)

**From:** Valerie Daberkoe [mailto:[valerie@envirosureinc.com](mailto:valerie@envirosureinc.com)]  
**Sent:** Friday, May 05, 2017 3:00 PM  
**To:** EP, SE Records Review <[RA-SERecordsReview@pa.gov](mailto:RA-SERecordsReview@pa.gov)>  
**Subject:** 11442 Informal File Review Request

Hi Jo Anne:

Please find attached an Informal File Review Request related to Troutbeck Farm, 730 Monument Road in Willistown Township, Chester County.

Thank you.

**Valerie Daberkoe**

Office Manager



319 S. High Street, 1st Floor

West Chester, PA 19382

P: 610.696.8980

F: 610.696.8984



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**11442 Informal File Review.pdf**  
384K

## **APPENDIX E**

### **OWNER-PROVIDED DOCUMENTATION**

FIGURE 5: 1 ACRE LAYOUT 'E'  
(2DU)2.3ac + (37)1.0+ac.

LOT AREA: 40.26 ac. 65.0%  
R/W AREA: 4.62 ac. 7.3%  
OPEN SPACE: 17.34 ac. 28.2%

- EXISTING PROPERTY LINE
- ADJOINING OWNER LOT LINE
- RIGHT-OF-WAY
- BUILDING SETBACK LINE
- EASEMENT LINE
- EDGE OF PAVED ROAD
- PADEP RIPARIAN BUFFER LINE
- TOWNSHIP RIPARIAN BUFFER LINE
- STREAM "WATERS OF THE UNITED STATES" (TO BE PROTECTED)
- WETLAND DELINEATION & FLAG IDENTIFIERS
- WETLANDS (TO BE PROTECTED)
- TREELINE (0% PROTECTED)
- TREELINE (75% PROTECTED)
- SLOPES 15% TO 25% (TO BE PROTECTED AS SHOWN)
- SLOPES >25% (TO BE PROTECTED)

INTEGRATED LAND MANAGEMENT, INC.

3 LUCAS LANE MALVERN, PA 19355 (610) 644-0806 FAX 644-6583

REGISTERED LAND SURVEYOR & ENGINEER FOR ANY ADJUSTMENTS TO THE PLAN

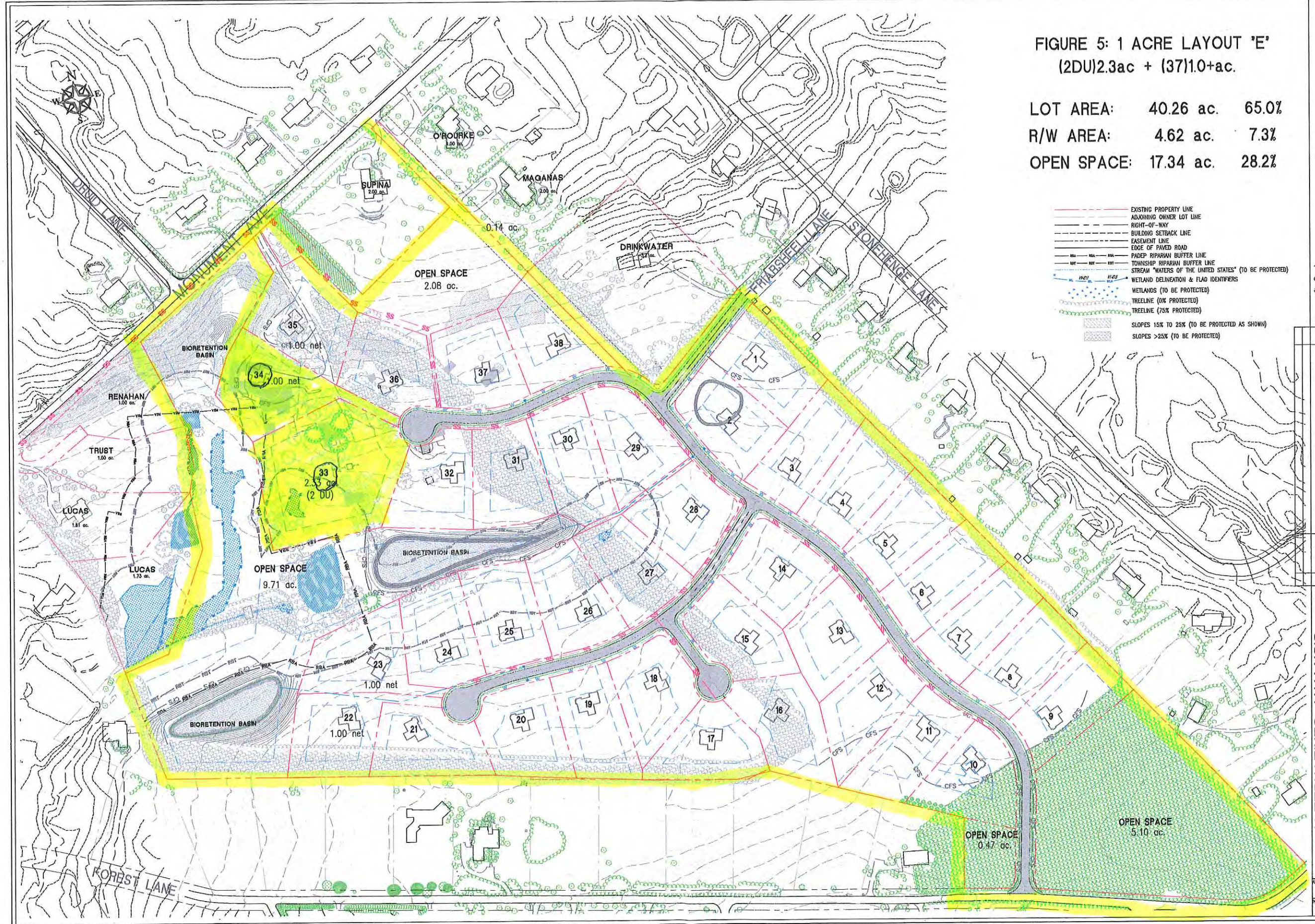
WILLISTOWN TOWNSHIP  
CHESTER COUNTY  
PENNSYLVANIA

ALTERNATIVES ANALYSIS  
ALTERNATIVE LOT LAYOUT E  
TROUTBECK FARM

APPROVED BY

PROJECT NO. 9929 PLAN NO. C-2 SHEET 2 OF 3

September 30, 2016



## **APPENDIX F**

### **USER QUESTIONNAIRE**

## Phase I ESA User Questionnaire

Date Issued:

Site Name:

Address:

City, County, State:

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the "User" must provide the following information (if available) to EnviroSure, Inc. Generally, the client is the User defined by ASTM E 1527-13. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

- 1) **Environmental cleanup liens that are filed or recorded against the Site:** Are you aware of any environmental cleanup liens against the Site that are filed or recorded under federal, tribal, state or local law?  
*none*
- 2) **Activity and land use limitations (AULs) that are in place on the Site or that have been filed or recorded in a registry:** Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the Site and/or have been filed or recorded in a registry under federal, tribal, state or local law?  
*none*
- 3) **Specialized knowledge or experience of the User:** As the User of this Phase I ESA do you have any specialized knowledge or experience related to the Site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the Site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?  
*Yes*
- 4) **Relationship of the purchase price to the fair market value of the Site if it were not contaminated:** Does the purchase price being paid for this Site reasonably reflect the fair market value of the Site? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the Site?  
*N/A*
- 5) **Commonly known or reasonably ascertainable information about the Site:** Are you aware of commonly known or reasonably ascertainable information about the Site that  
*Des - see site visit*

would help EnviroSure, Inc. to identify conditions indicative of releases or threatened releases? For example, as the User,

a) Do you know the past uses of the Site? If so, list the uses below.

*farm*

b) Do you know of specific chemicals that are present or once were present at the Site?

*herbicides, fuels*

c) Do you know of spills or other chemical releases that have taken place at the Site?

*none known*

d) Do you know of environmental cleanups that have taken place at the Site?

*none*

6) **The degree of obviousness of the presence or likely presence of contamination at the Site, and the ability to detect the contamination by appropriate investigation:** As the User of this Phase I ESA, based on your knowledge and experience related to the Site, are there obvious indicators that point to the presence or likely presence of contamination at the Site?

*yes, buried tank*

Completed by:

*Bill Lucas, W.M.C. LUCAS*

Company

*GLM Inc.*

Printed Name and Title

*W.M.C. Lucas*

Signature

*seller*

Role in Site Transaction (e.g., buyer, seller, lender, etc.)

*12/05/17*

Date

## **APPENDIX G**

### **SITE PHOTOGRAPHS**



Photograph 1 – Photo of the farmhouse at 730 Monument Road (the Site). Photo taken looking north.



Photograph 2 – Picture of the eastern side of the farmhouse looking west.



Photograph 3 – View of the potable well on the eastern side of the farmhouse.



Photograph 4 – Photo of the first floor of the farmhouse.



Photograph 5 – First floor of the farmhouse.



Photograph 6 – View of the oil fired furnace in the farmhouse basement.



Photograph 7 – Photo of a water softener tank in the farmhouse basement.



Photograph 8 – Picture of an oil fired furnace in the farmhouse basement.



Photograph 9 – View of two 275-gallon aboveground heating oil tanks in the farmhouse basement.



Photograph 10 – Photo of a water heater in the basement.



Photograph 11 - Picture of a circuit panel in the farmhouse basement.



Photograph 12 – Circuit panel in farmhouse basement.



Photograph 13 – Location of an abandoned 500-gallon gasoline UST on the western side of the main driveway. See **Figure 3**.



Photograph 14 – Picture of the location of a buried manure trailer on the western side of the farmhouse. See **Figure 3**.



Photograph 15 - Overall picture of the shed stalls (seen on left) and the main barn (right) as seen from the meadow looking north.



Photograph 16 - View of the eastern side of the shed stalls looking west.



Photograph 17 – Photo of the northern side of the main barn.



Photograph 18 – View of the eastern side of the barn.



Photograph 19 – Photo of the barn interior.



Photograph 20 – Picture of a milking parlor inside of the barn.



Photograph 21 - View of the meadow on the southern portion of the Site looking south.



Photograph 22 – Photo of the small pond on the western side of the Site.



Photograph 23 – Picture of the shed on the southern side of the barn.



Photograph 24 – View of the big pond in the central area of the Site.



Photograph 25 – Photo of the ranch house.



Photograph 26 – Picture of the apartment unit attached to a barn on the eastern side of the Site.



Photograph 27 – View of the apartment building, eastern portion of the Site.



Photograph 28 – Photo of the barn attached to the apartment, eastern part of the Site. Photo taken looking north.



Photograph 29 – Picture of the pole barn on the eastern portion of the Site.



Photograph 30 – View of the actively farmed area on the eastern area of the Site. Photo taken looking southeast.



Photograph 31 – North portion of the actively farmed area looking north toward the residence at 728 Monument Road.



Photograph 32 – Picture of the Site as seen from Monument Road looking southwest.



Photograph 33 – View of the Site as seen along Monument Road looking southwest.



Photograph 34 – Photo of the site entrance on Monument Road looking northeast.

## **APPENDIX H**

### **RESUMES**

## Environmental Scientist

## Kevin Casey

### Total Years Experience:

12

### Education:

- ▶ BS, Mary Washington College, Environmental Science

### License(s)/Certification(s):

- ▶ Certified Radon Measurement Technician, New Jersey
- ▶ EPA/AHERA Certified Asbestos Contractor/Supervisor, New Jersey
- ▶ Certified Construction Reviewer (CCR), Delaware
- ▶ Occupational Safety and Health Administration (OSHA) Hazmat 40-Hour Training (2015)

### Overview:

Mr. Casey has over 12 years of experience in a variety of environmental capacities. He began his environmental career in the renewable energy business, and then proceeded to performing environmental inspections throughout the Mid-Atlantic Region. His experience includes preparation of federal and state permit applications, environmental monitoring and sampling, and ensuring compliance with state and federal regulations.

### Experience:

**Environmental Specialist, Multiple Sites in the Mid-Atlantic States.** Conducted Environmental Site Assessments (ESAs), soil sampling, wetlands delineation, and prepared reports for technical review by federal resource agencies (NMFS, USFWS, EPA). Regularly coordinated the environmental permitting process between clients and the Army Corps of Engineers, PADEP, NJDEP and DNRCE.

**Compliance Specialist Supervisor, Mid-Atlantic States.** Responsible for a team of nine Compliance Specialists serving the Mid-Atlantic Region. Ensured the accuracy and completeness of environmental inspections by training new inspectors, traveled to sites, communicated with clients, and performed in-depth monthly and quarterly audit reports.

**Compliance Specialist, Southeastern Pennsylvania.** Performed weekly environmental inspections at commercial, residential and land development construction sites, implemented certified Erosion and Sediment Control Plans for construction companies.

**Compliance Engineer, Cherry Island Landfill, Delaware.** Managed the Landfill Gas (LFG) collection system at Cherry Island Landfill in compliance with the Delaware Department of Natural Resources and Environmental Control's (DNREC) Air Quality and Emissions program

## Professional Geologist

### Total Years Experience:

17

### Education:

- ▶ MS, Temple University, Geology
- ▶ BS, Temple University Geology

### License(s)/Certification(s):

- ▶ Pennsylvania Licensed Professional Geologist PG004537
- ▶ Delaware Licensed Professional Geologist S4-0001336

### Professional Affiliations:

- ▶ Geological Society of America

### Publications:

- ▶ Zeliznak, Christopher; Goodwin, P.W.; and Anderson, E.J., 1998. The Superposition of a Hierarchic Allocyclic Fabric Across Lateral Facies and Vertical Stratigraphic Boundaries in the Upper Silurian Williamsport Sandstone and Wills Creek Shale. Geological Society of America, Programs with Abstracts, v.30, n. 1, p. 85.
- ▶ Zeliznak, Christopher; Brown, S.M.; Goodwin, P.W.; and Anderson, E.J., 1997. Facies Patterns that Define Wills Creek 5<sup>th</sup> and 6<sup>th</sup> Order Cycles. Geological Society of America, Programs with Abstracts, v. 29, n. 1, p. 10.

## Christopher Zeliznak, P.G.

### Overview:

Mr. Zeliznak has over 17 years of project management and geologic experience with expertise in environmental remediation. His experience includes leadership roles in most aspects of remediation and his most challenging assignments included being an entry team leader for experimental post-treatment testing related to the Hart Senate Office Building Anthrax Decontamination, team leader/manager of a soil sampling crew at the Libby Asbestos Project, to obtaining his Professional Geologist Licensure in the Commonwealth of Pennsylvania and implementing his refined technical writing skills in the Pennsylvania Department of Environmental Protection Land Recycling and Corrective Action Process Programs.

### Experience:

**Project Manager, Multiple Act 2 Sites in Pennsylvania and New Jersey, Confidential Clients.** Conducted site investigations regulated in the PADEP Land Recycling and Storage Tank Cleanup Programs for underground storage tank sites as well as performance and evaluation of Phase I and II Environmental Site Assessments. Managed chlorinated solvent (PCE/TCE) and perfluorinated compound (PFAS) remediation sites, evaluating site conditions using PADEP-approved modeling programs including Biochlor and Pentox groundwater models and Johnson & Ettinger vapor models. Participated in company, office, and personnel management, including staffing, reviews, and mentoring. Served as Company Safety Committee Secretary.

**Project Manager/Geologist, Multiple Quarry Sites in Pennsylvania, Confidential Clients.** Directed corehole drilling operations, performed structural and stratigraphic investigations and interpretation for exploration of potential quarry expansion areas. Incorporated geologic information into Surface Mining Permits and managed projects for submittals to PADEP Bureau of Mines.

**Emergency Management Division Committee Member.** Acted as environmental science consultant for development of company Emergency Management Division. The Division was developed for natural disaster, fire, and environmental hazard response in Eastern Pennsylvania.

**Site Manager/Project Geologist, CERCLIS Investigation, Lansdale, Pennsylvania.** Performed site management activities for geologic and hydrogeologic investigation to define DNAPL VOC contaminant plume size, migration and source. Responsibilities included personnel management; coordination between staff, subcontractors, and USGS; and adherence to field protocols for monitoring well installations, sampling, and site safety. Also assisted with video log, downhole geophysical testing, and packer testing data interpretation related to monitoring well installations and placement.

**Team Leader, CERCLIS Investigation, Libby, Montana.** Participated in citizen and property screening efforts related to asbestos abatement projects for the Town of Libby, Montana. Team leader of direct push soil sampling effort for 200-acre sawmill site characterization.

**Team Leader, Hart Senate Office Building Anthrax Response Team, Washington, D.C.** Team Leader of bacterial spore test strip placement and retrieval crew. Test strip usage was required to quantify the efficacy of the fumigation process for decontamination of personal items potentially contaminated with anthrax. Managed a 10-20 person crew during seven day per week operation and coordinated crew operations with subcontractor support crews.

**O&M Technician & Geologist, CERCLIS Remediation, Hatfield, Pennsylvania.** Performed operation and maintenance activities for dual stage air stripping groundwater treatment system. Responsibilities included weekly maintenance, annual cleaning, and monthly NPDES sampling. Conducted quarterly groundwater sampling activities including mobilization, sampling, data reduction and reporting to determine TCE plume concentration and efficacy of treatment system operation. Modeled TCE plume using Rockworks® 2002 subsurface modeling software.

**Hydrogeologist, CERCLIS Investigation, Sydney, New York.** Performed field operation and oversight of Army Corps of Engineers subcontractor for multiple 72-hour pumping tests relating to groundwater treatment system design.

**Field Geologist, Confidential Clients, Multiple Sites in New Jersey.** Performed tasks related to leaking underground storage tank removal, including contaminant identification, soil sampling, and groundwater monitoring. Collected samples using multiple techniques, performed pumping and slug tests to determine hydraulic characteristics of aquifers to evaluate contaminant plume migration, and performed quarterly groundwater sampling events. Organized and executed a semi-annual potable water sampling program and prepared report for a municipal environmental commission in Central New Jersey. Conducted subsurface investigation activities, including monitoring well and piezometer installations using hollow stem auger drilling and direct push boring techniques, respectively. Prepared and evaluated geologic and sediment logs to identify subsurface stratigraphic conditions related to environmental remediation.