

PA DEP Proposed Statewide Health Standards



2025

Walter H. Hungarter III, P.E.
Vice President
RT Environmental Services, Inc.

April 16, 2025



- Proposed Statewide Health Standards
 - Changes Currently Proposed
 - Future Changes (Arsenic)
- Lead in Soil
- PFAS
- Impacts to Clean Fill

- Due Diligence Resources



Proposed Statewide Health Standards

3-Year Review Cycles

July 2, 2024 - Proposed Updates by DEP

Public Comments, Environmental Quality Board Review, Then Implementation



**REMEMBER THAT DEP STATEWIDE
HEALTH STANDARDS ARE USED AS THE
CLEAN FILL STANDARDS**



Proposed Statewide Health Standards

2024 Proposal

Update Lead SHS for Direct Contact

Addition of MORE **PFAS**

Revise PAH Toxicity Values

Update Toxicity Values for 19 Other Compounds to be Consistent with EPA Values



Proposed Statewide Health Standards

Appendix A

Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential 0—15 feet	Nonresidential			
			Surface Soil 0—2 feet		Subsurface Soil 2—15 feet	
BENZO[A]ANTHRACENE	56-55-3	[6.1] 42 G	[130] 910 G	G	190,000	C
BENZO[A]PYRENE	50-32-8	4.2 G	91 G	G	190,000	C
BENZO[B]FLUORANTHENE	205-99-2	[3.5] 42 G	[76] 910 G	G	190,000	C
BENZO[GHI]PERYLENE	191-24-2	13,000 G	190,000 C	C	190,000	C
BENZO[K]FLUORANTHENE	207-08-9	[3.5] 420 G	[76] 9,100 G	G	190,000	C
BENZOIC ACID	65-85-0	190,000 C	190,000 C	C	190,000	C
BENZOTRICHLORIDE	98-07-7	1.4 G	7 G	G	10,000	C
BENZYL ALCOHOL	100-51-6	10,000 C	10,000 C	C	10,000	C
BENZYL CHLORIDE	100-44-7	9 N	45 N	N	52 N	N
BETA PROPIOLACTONE	57-57-8	0.11 N	0.55 N	N	0.63 N	N
BHC, ALPHA	319-84-6	3 G	14 G	G	190,000	C
BHC, BETA-	319-85-7	10 G	51 G	G	190,000	C
BHC, GAMMA (LINDANE)	58-89-9	[17] 2.2 G	[83] 32 G	G	190,000	C
BIPHENYL, 1,1-	92-52-4	8.2 N	34 N	N	40 N	N
BIS(2-CHLOROETHOXY)METHANE	111-91-1	660 G	9,600 G	G	10,000	C
BIS(2-CHLOROETHYL)ETHER	111-44-4	1.3 N	6.7 N	N	7.6 N	N
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	[44] 8,800 [N] G	[220] [N] 10,000 C	[N] C	[250] [N] 10,000 C	[N] C



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Proposed Statewide Health Standards

Appendix A
 Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil
 B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers								Nonuse Aquifers				Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L				TDS > 2500 mg/L				Residential		Nonresidential		
		Residential		Nonresidential		Residential		Nonresidential		Residential		Nonresidential		
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
BENZIDINE	92-87-5	0.000092	0.12 E	0.0012	1.6 E	0.0092	12 E	0.12	160 E	0.092	120 E	1.2	1,600 E	5
BENZO(A)ANTHRACENE	56-55-3	[0.03] 0.21	[26] 180 E	[0.39] 1.1	[340] 960 E	1.1	960 E	1.1	960 E	1.1	960 E	1.1	960 E	5
BENZO(A)PYRENE	50-32-8	0.02	46 E	0.02	46 E	0.38	860 E	0.38	860 E	0.38	860 E	0.38	860 E	5
BENZO(B)FLUORANTHENE	205-99-2	[0.018] 0.12	[25] 170 E	0.12	170 E	0.12	170 E	0.12	170 E	0.12	170 E	0.12	170 E	5
BENZO(GHI)PERYLENE	191-24-2	0.026	180 E	0.026	180 E	0.026	180 E	0.026	180 E	0.026	180 E	0.026	180 E	5
BENZO(K)FLUORANTHENE	207-08-9	[0.018] 0.055	[200] 610 E	0.055	610 E	0.055	610 E	0.055	610 E	0.055	610 E	0.055	610 E	5
BENZ(a)P	205-99-2	0.000092	0.12 E	0.0012	1.6 E	0.0092	12 E	0.12	160 E	0.092	120 E	1.2	1,600 E	5



Proposed Statewide Health Standards

Appendix A
 Table 4—Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil
 A. Direct Contact Numeric Values

REGULATED SUBSTANCE	CASRN	Residential MSC 0—15 feet		Nonresidential MSCs			
				Surface Soil 0—2 feet		Subsurface Soil 2—15 feet	
ALUMINUM	7429-90-5	190,000	C	190,000	C	190,000	C
ANTIMONY	7440-36-0	88	G	1,300	G	190,000	C
ARSENIC	7440-38-2	12	G	61	G	190,000	C
BARIUM AND COMPOUNDS	7440-39-3	44,000	G	190,000	C	190,000	C
BERYLLIUM	7440-41-7	440	G	6,400	G	190,000	C
BORON AND COMPOUNDS	7440-42-8	44,000	G	190,000	C	190,000	C
CADMIUM	7440-43-9	[110] 22	G	[1,600] 320	G	190,000	C
CHROMIUM III	16065-83-1	190,000	C	190,000	C	190,000	C
CHROMIUM VI	18540-29-9	37	G	180	G	140,000	N
COBALT	7440-48-4	66	G	960	G	190,000	N
COPPER	7440-50-8	7,200	G	100,000	G	190,000	C
CYANIDE, FREE	57-12-5	[130] 140	G	[1,900] 2,000	G	190,000	C
FLUORIDE	16984-48-8	8,800	G	130,000	G	190,000	C
IRON	7439-89-6	150,000	G	190,000	C	190,000	C
LEAD	7439-92-1	[500] 200	[U] †	[1,000] 1,100	[S] A	190,000	C
LITHIUM	7439-93-2	440	G	6,400	G	190,000	C
MANGANESE	7439-96-5	31,000	G	190,000	C	190,000	C



LEAD

Reduced and
Increased

CADMIUM

Reduced

CLEAN FILL?



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Proposed Statewide Health Standards

Table 4 - Medium-Specific Concentrations (MSCs) for Inorganic Regulated Substances in Soil
 B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers								Nonuse Aquifers				Soil Buffer Distance (feet)
		TDS < = 2500				TDS > 2500				R		NR		
		R		NR		R		NR		R		NR		
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
ANTIMONY	7440-36-0	0.6	27	0.6	27	60	2700	60	2700	600	27000	600	27000	15
ARSENIC	7440-38-2	1	29	1	29	100	2900	100	2900	1000	29000	1000	29000	15
BARIUM AND COMPOUNDS	7440-39-3	200	8200	200	8200	20000	190000	20000	190000	190000	190000	190000	190000	15
BERYLLIUM	7440-41-7	0.4	320	0.4	320	40	32000	40	32000	400	190000	400	190000	10
BORON AND COMPOUNDS	7440-42-8	600	1900	600	1900	60000	190000	60000	190000	190000	190000	190000	190000	30
CADMIUM	7440-43-9	0.5	38	0.5	38	50	3800	50	3800	500	38000	500	38000	15
CHROMIUM (III)	16065-83-1	10	190000	10	190000	1000	190000	1000	190000	10000	190000	10000	190000	5
CHROMIUM (VI)	18540-29-9	10	190	10	190	1000	19000	1000	19000	10000	190000	10000	190000	15
COBALT	7440-48-4	1	45	2.9	130	100	4500	290	13000	1000	45000	2900	130000	15
COPPER	7440-50-8	100	43000	100	43000	10000	190000	10000	190000	100000	190000	100000	190000	10
CYANIDE, FREE	57-12-5	20	200	20	200	2000	20000	2000	20000	20000	190000	20000	190000	20
FLUORIDE	16984-48-8	400	44	400	44	40000	4400	40000	4400	190000	44000	190000	44000	NA
LEAD	7439-92-1	0.5	450	0.5	450	50	45000	50	45000	500	190000	500	190000	10
LITHIUM	7439-93-2	6.9	2100	19	5700	690	190000	1900	190000	6900	190000	19000	190000	10
MANGANESE	7439-96-5	30	2000	30	2000	3000	190000	3000	190000	30000	190000	30000	190000	15

NO LEAD OR CADMIUM REDUCTIONS PROPOSED FOR SOIL TO GROUNDWATER VALUES



Clean Fill Impacts

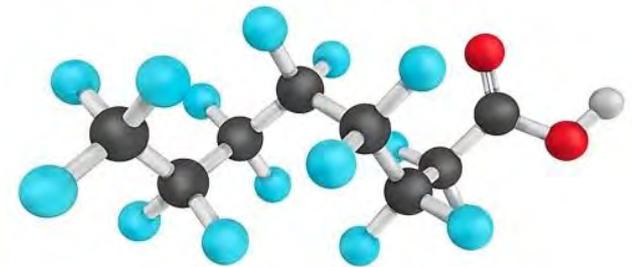


Proposed Statewide Health Standards

REGULATED SUBSTANCE	CASRN	Residential 0—15 feet	Nonresidential			
			Surface Soil 0—2 feet		Subsurface Soil 2—15 feet	
PEBULATE	1114-71-2	[10,000] [C] 150 G	[10,000] [C] 2,200 G		10,000 C	
PENTACHLOROBENZENE	608-93-5	180 G	2,600 G		190,000 C	
PENTACHLOROETHANE	76-01-7	210 G	1,000 G		10,000 C	
PENTACHLORONITROBENZENE	82-68-8	72 G	350 G		190,000 C	
PENTACHLOROPHENOL	87-86-5	47 G	230 G		190,000 C	
PERFLUOROBUTANE SULFONATE (PFBS)	375-73-5	66 G	960 G		10,000 C	
PERFLUOROBUTANOIC ACID (PFBA)	375-22-4	220 G	3,200 G		190,000 C	
PERFLUOROHEXANOIC ACID (PFHxA)	307-24-4	110 G	1,600 G		10,000 C	
PERFLUOROOCTANE SULFONATE (PFOS)	1763-23-1	[4.4] 0.68 G	[64] 9.9 G		190,000 C	
PERFLUOROOCTANOIC ACID (PFOA)	335-67-1	[4.4] 0.86 G	[64] 12 G		190,000 C	
PHENACETIN	62-44-2	8,500 G	41,000 G		190,000 C	
PHENANTHRENE	85-01-8	66,000 G	190,000 C		190,000 C	
PHENOL	108-95-2	3,800 N	16,000 N		18,000 N	
PHENYL MERCAPTAN	108-98-5	220 G	3,200 G		10,000 C	
PHENYLENEDIAMINE, M-	108-45-2	1,300 G	19,000 G		190,000 C	
PHENYLPHENOL, 2-	90-43-7	9,600 G	47,000 G		190,000 C	
PHORATE	298-02-2	[44] 37 G	[640] 540 G		10,000 C	
PHTHALIC ANHYDRIDE	85-44-9	380 N	1,600 N		1,800 N	
PICLORAM	1918-02-1	15,000 G	190,000 C		190,000 C	
POTASSIUM PERFLUOROBUTANE SULFONATE	29420-49-3	66 G	960 G			

**PFAS Reduced, Adding
New Compounds**

PFAS



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Proposed Statewide Health Standards

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 B. Soil to Groundwater Numeric Values¹

REGULATED SUBSTANCE	CASRN	Used Aquifers								Nonuse Aquifers				Soil Buffer Distance (feet)
		TDS ≤ 2500 mg/L				TDS > 2500 mg/L				Residential		Nonresidential		
		Residential		Nonresidential		Residential		Nonresidential		Residential		Nonresidential		
		100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	100 X GW MSC	Generic Value	
PERFLUOROHEXANOIC ACID (PFHxA)	307-24-4	1.7	N/A	4.9	N/A	170	N/A	490	N/A	1.7	N/A	4.9	N/A	NA
PERFLUOROCTANE SULFONATE (PFOS)	1763-23-1	[0.007] 0.0018	N/A	[0.007] 0.0018	N/A	[0.7] 0.18	N/A	[0.7] 0.18	N/A	[0.007] 0.0018	N/A	[0.007] 0.0018	N/A	NA
PERFLUOROCTANOIC ACID (PFOA)	335-67-1	[0.007] 0.0014	N/A	[0.007] 0.0014	N/A	[0.7] 0.14	N/A	[0.7] 0.14	N/A	[0.007] 0.0014	N/A	[0.007] 0.0014	N/A	NA
PHENACETIN	62-44-2	30	12 E	120	46 E	3,000	1,200 E	12,000	4,800 E	30,000	12,000 E	76,000	20,000 E	NA

**PFAS Reduced, Adding
 New Compounds**



Proposed Statewide Health Standards

STATUS MARCH 2025

From: Sterling, Brie <bsterling@pa.gov>
Sent: Tuesday, March 11, 2025 10:59 AM
To: Walter Hungarter <whungarter@rtenv.com>
Cc: Brown, C David <cdbrown@pa.gov>
Subject: RE: [External] Act 2 Standard Update 2025

Good morning,

We are currently planning to present the final regulations to the EQB in the 3rd quarter of 2025 and have them published as final before the end of the year. This is not guaranteed to happen, but this is our current plan.

Please let me know if you have any other questions.

Thank you,
Brie

Brie Sterling | Environmental Group Manager
Department of Environmental Protection | Bureau of Environmental Cleanup and Brownfields
Rachel Carson State Office Building
400 Market Street | Harrisburg, PA 17105-8471
Phone: 717.783.9469 | Fax: 717.772.5598
www.dep.pa.gov



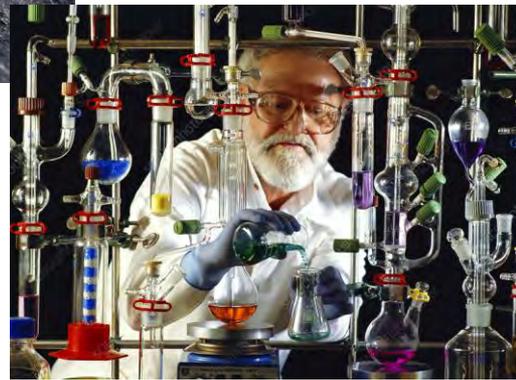
Impact of 2024 Proposed Statewide Health Standards

REMEMBER THAT DEP STATEWIDE HEALTH STANDARDS ARE USED AS THE CLEAN FILL STANDARDS

- Clean Fill Determined by Due Diligence



- Clean Fill Determined by Analytical Testing



Impact of 2024 Proposed Statewide Health Standards

REMEMBER THAT DEP STATEWIDE HEALTH STANDARDS ARE USED AS THE CLEAN FILL STANDARDS

SOIL CLEAN FILL STANDARDS AND LABORATORY DATA

- Lower of Direct Contact and Soil to Groundwater Generic Value
 - Currently Lead CF Value 450 mg/kg (based on Soil to Groundwater Value)
 - Proposed Lead CP Value 200 mg/kg (based on Direct Contact Value)
 - Currently Cadmium CF Value 38 mg/kg (based on Soil to Groundwater Value)
 - Proposed Cadmium Value 22 mg/kg (based on Direct Contact Value)

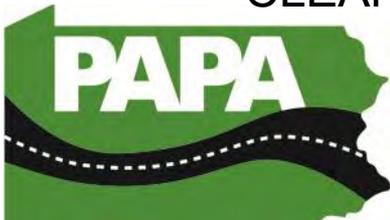


Impact of 2024 Proposed Statewide Health Standards

REMEMBER THAT DEP STATEWIDE HEALTH STANDARDS ARE USED AS THE CLEAN FILL STANDARDS

SOIL CLEAN FILL STANDARDS AND LABORATORY DATA

- Lower of Direct Contact and Soil to Groundwater Generic Value
 - Currently PFOS 4.4 mg/kg Direct Contact
 - Proposed PFOS 0.68 mg/kg Direct Contact
 - Currently PFOA 4.4 mg/kg Direct Contact
 - Proposed PFOA 0.86 mg/kg Direct Contact
- NO GENERIC VALUE FOR PFAS. Groundwater Standards for PFAS are much Lower!! SO DIRECT CONTACT DRIVES CLEAN FILL VALUES



Impact of 2024 Proposed Statewide Health Standards

REMEMBER THAT DEP STATEWIDE HEALTH STANDARDS ARE USED AS THE CLEAN FILL STANDARDS

SOIL CLEAN FILL STANDARDS AND LABORATORY DATA

- Default to Direct Contact
 - **New PFAS**
 - PFBA 220 mg/kg (Direct Contact)
 - PFHxA 110 mg/kg (Direct Contact)
 - PFBS 66 mg/kg (Direct Contact)
 - HFPO [GEN-X] and Salts 0.66 mg/kg (Direct Contact)



Impact of 2024 Proposed Statewide Health Standards

Groundwater Standards will also be Updated!!

- Important for Water Management at Construction Sites
- NPDES Permitting Impacts (TOPIC FOR ANOTHER TIME)
- Health and Safety Impacts (TOPIC FOR ANOTHER TIME)



RT Environmental Services, Inc.

Future Proposed Statewide Health Standards

3-YEAR CYCLE FOR REVIEW

- Statewide Health Standards are Risked Based Standards
- EPA Proposed New Toxicity Values which **WILL** impact SHS
- Arsenic reduced over an order of Magnitude (EPA Regional Screening Level) for Residential and Non-Residential Situations
- **Finalize in May of 2025 (BUT WE'LL SEE WHAT HAPPENS)**
- DEP can do interim update after the SHS are Finalized Later This Year
- Or can incorporate into the current version.
- Either way, anticipate that after more than 20+ years dealing with an arsenic standard lower than BACKGROUND, the standard will likely be lower!



Clean Fill

Due Diligence Vs. Testing

- Clean Fill Does NOT Default to Testing (even though it seems to be the case for every receiving site)
- Due Diligence push may become more of a priority!
- Due Diligence is Defined in Management of Fill Policy (Clean Fill)
- Could be a full Phase I or Could be an Environmental Review
- Focus on Sources for Environmental Review



HistoricAerials.com

General Atlas View of Project Area

Topographic Images over Many Years

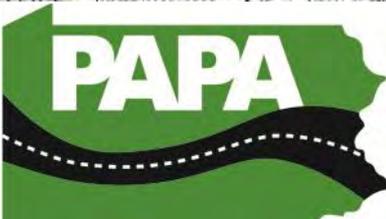
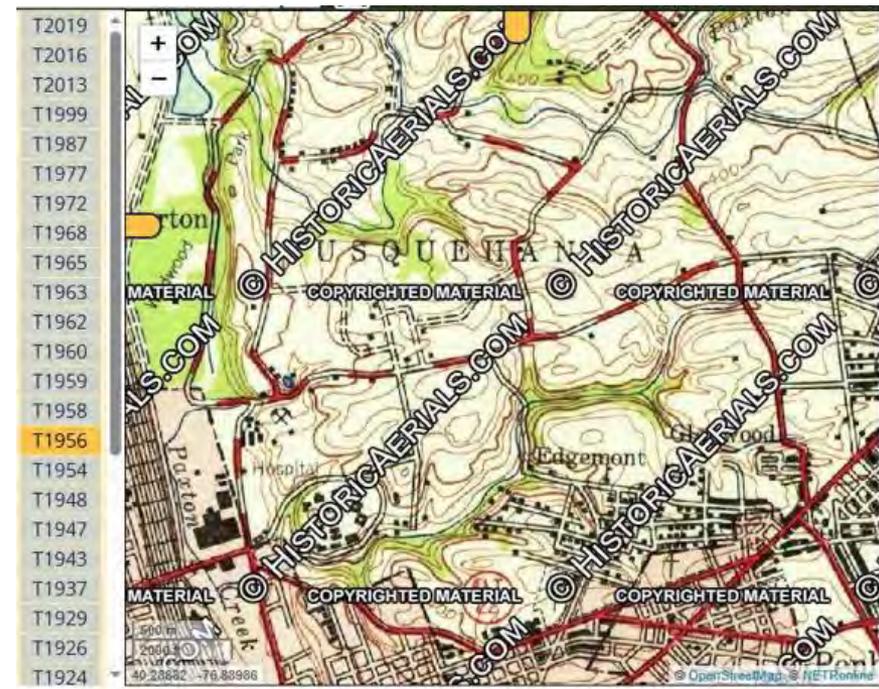
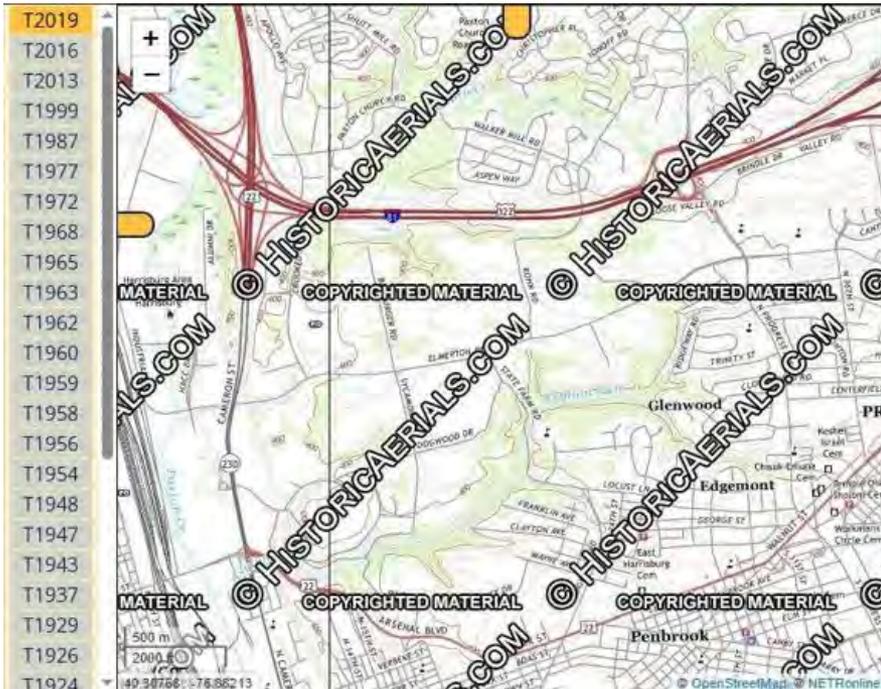
Aerial Photographs over Many Years

FREE TO VIEW!!!!!!



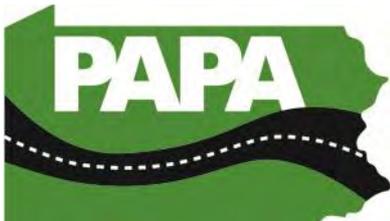
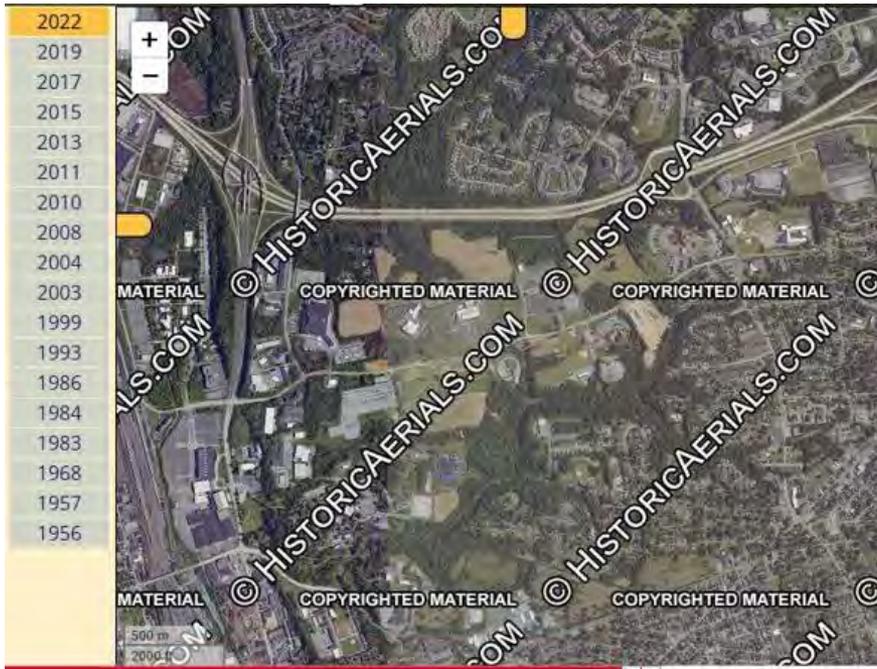
HistoricAerials.com

Topographic Images over Many Years

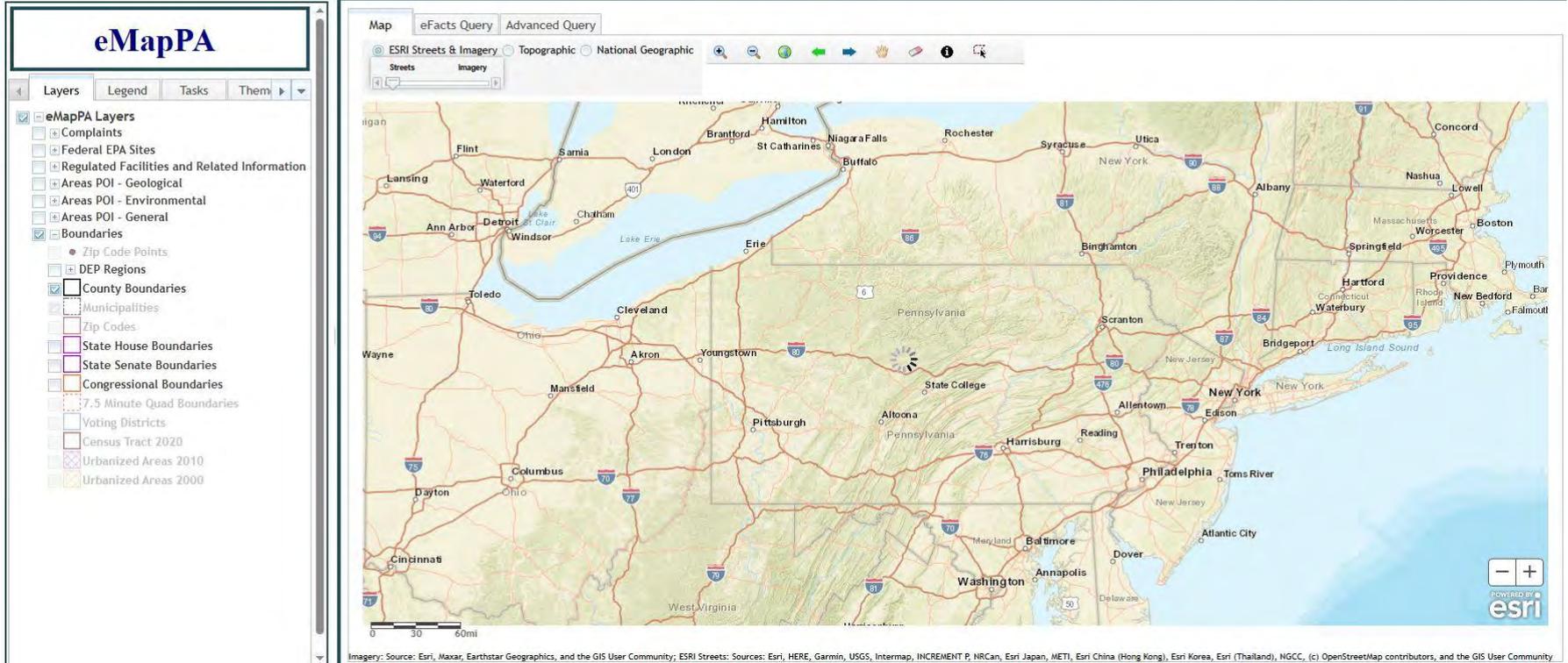


HistoricAerials.com

Aerial Images over Many Years



eMapPA (IT'S FREE!)



Map eFacts Query Advanced Query

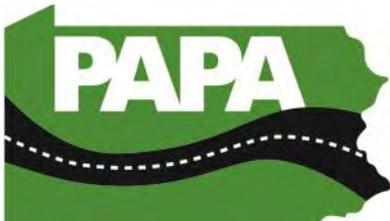
ESRI Streets & Imagery Topographic National Geographic

Layers Legend Tasks Themes

eMapPA Layers

- Complaints
- Federal EPA Sites
- Regulated Facilities and Related Information
- Areas POI - Geological
- Areas POI - Environmental
- Areas POI - General
- Boundaries
 - Zip Code Points
- DEP Regions
- County Boundaries
- Municipalities
- Zip Codes
- State House Boundaries
- State Senate Boundaries
- Congressional Boundaries
- 7.5 Minute Quad Boundaries
- Voting Districts
- Census Tract 2020
- Urbanized Areas 2010
- Urbanized Areas 2000

Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



eMapPA

eMapPA

Map | eFacts Query | Advanced Query

ESRI Streets & Imagery | Topographic | National Geographic

Layers | Legend | Tasks | Them

- eMapPA Layers
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 - Toxic Release Inventory
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Map: ESRI Streets & Imagery | Topographic | National Geographic

Scale: 0 0.2 0.4mi

Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



eMapPA

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Map eFacts Query Advanced Query

ESRI Streets & Imagery Topographic National Geographic

Streets Imagery

Summerdale

East Insboro Twp

Enola

Progress

Penbrook

Scale: 0 0.2 0.4mi

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eMapPA

Map eFacts Query Advanced Query

ESRI Streets & Imagery Topographic National Geographic

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 - Regulated Facilities and Related Informatic
 - Air
 - Land Reuse
 - Beneficial Land Use
 - Mine Drainage Trtmt Land Recycling I
 - Land Recycling Cleanup Location
 - Air Media
 - Contained Release or Abandoned
 - Groundwater Media
 - Sediment Media
 - Soil Media
 - Surface Water Media
 - Waste Media
 - Mining
 - Oil and Gas
 - Radiation
 - Sample Information System
 - Streams and Water Resources
 - Storage Tanks
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eMapPA

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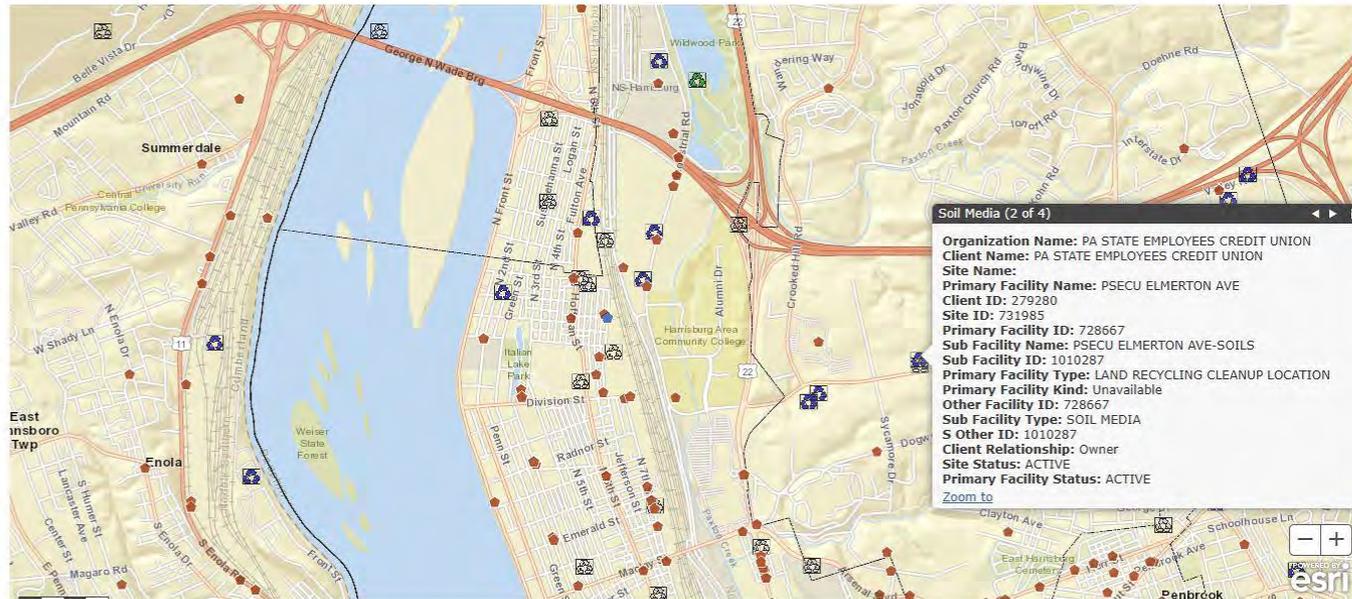
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 - Waste
 - Water
 - Areas POI - Geological
 - Areas POI - Environmental
 - Areas POI - General
 - Boundaries
 - Zip Code Points
 - DFP Regions

Map
eFacts Query Advanced Query

ESRI Streets & Imagery
 Topographic
 National Geographic

 Streets
 Imagery



Soil Media (2 of 4)

Organization Name: PA STATE EMPLOYEES CREDIT UNION
Client Name: PA STATE EMPLOYEES CREDIT UNION
Site Name:
Primary Facility Name: PSECU ELMERTON AVE
Client ID: 279280
Site ID: 731985
Primary Facility ID: 728667
Sub Facility Name: PSECU ELMERTON AVE-SOILS
Sub Facility ID: 1010287
Primary Facility Type: LAND RECYCLING CLEANUP LOCATION
Primary Facility Kind: Unavailable
Other Facility ID: 728667
Sub Facility Type: SOIL MEDIA
S Other ID: 1010287
Client Relationship: Owner
Site Status: ACTIVE
Primary Facility Status: ACTIVE
[Zoom to](#)

Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



eMapPA

pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Josh Shapiro, Governor Acting Secretary Jessica Shirley DEP Home Help

eMapPA

Layers Legend Tasks Themes Links

- eMapPA Layers
 - Complaints
 - Federal EPA Sites
 - Toxic Release Inventory
 - Envirofacts Facilities
 - Regulated Facilities and Related Information
 - Air
 - Land Reuse
 - Beneficial Land Use
 - Mine Drainage Trtmt Land Recycling Project
 - Land Recycling Cleanup Location
 - Air Media
 - Contained Release or Abandoned Contai
 - Groundwater Media
 - Sediment Media
 - Soil Media
 - Surface Water Media
 - Waste Media
 - Mining
 - Oil and Gas
 - Radiation
 - Sample Information System
 - Streams and Water Resources
 - Storage Tanks
 - Storage Tanks Active
 - Storage Tanks Inactive
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Map eFacts Query Advanced Query

ESRI Streets & Imagery Topographic National Geographic

Streets Imagery

Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



eMapPA

eMapPA

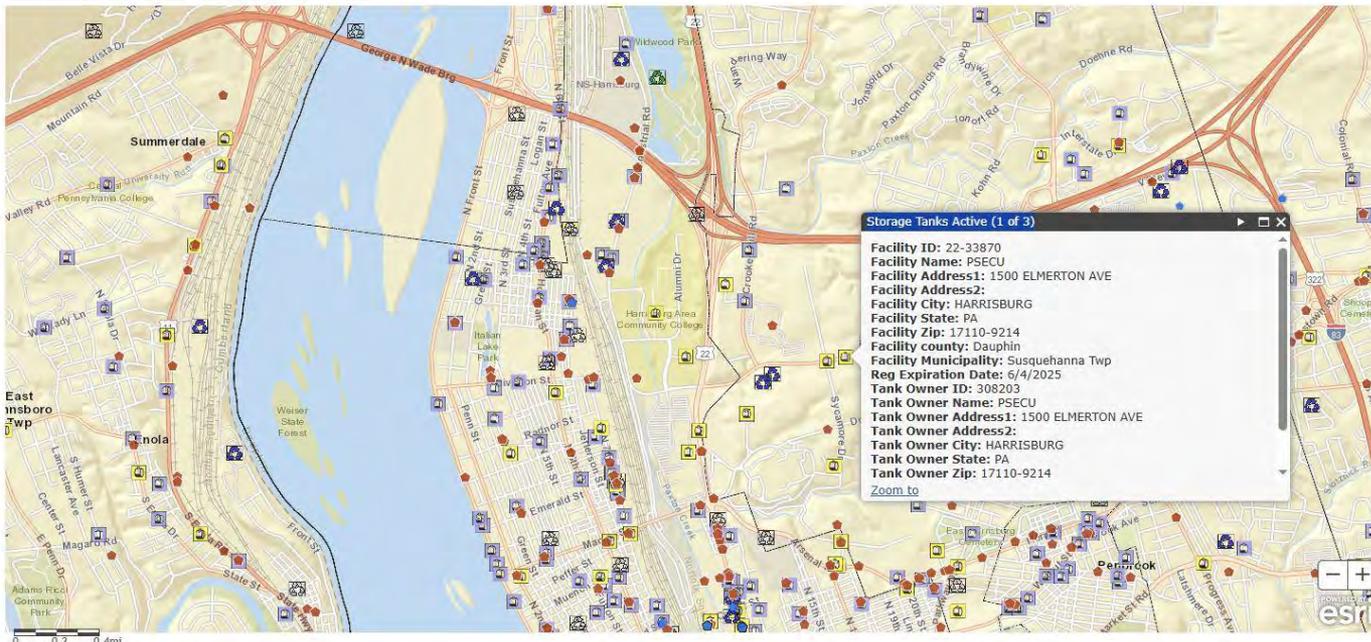
Layers Legend Tasks Themes Links

- eMapPA Layers
 - Complaints
 - Federal EPA Sites
 - Toxic Release Inventory
 - Envirofacts Facilities
 - Regulated Facilities and Related Information
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 - Areas POI - General
 - Boundaries

Map eFacts Query Advanced Query

ESRI Streets & Imagery
 Topographic
 National Geographic

Streets
 Imagery



Storage Tanks Active (1 of 3)

Facility ID: 22-33870
Facility Name: PSECU
Facility Address1: 1500 ELMERTON AVE
Facility Address2:
Facility City: HARRISBURG
Facility State: PA
Facility Zip: 17110-9214
Facility county: Dauphin
Facility Municipality: Susquehanna Twp
Reg Expiration Date: 6/4/2025
Tank Owner ID: 308203
Tank Owner Name: PSECU
Tank Owner Address1: 1500 ELMERTON AVE
Tank Owner Address2:
Tank Owner City: HARRISBURG
Tank Owner State: PA
Tank Owner Zip: 17110-9214
Zoom to

Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



eMapPA

The screenshot displays the eMapPA web application interface. On the left is a 'Layers' panel with a legend and a list of data layers. The main area shows a map of Philadelphia with various environmental data points overlaid on a topographic background. The interface includes a search bar, navigation tools, and a legend.

Layers Panel:

- Sediment Media
- Soil Media
- Surface Water Media
- Waste Media
- Mining
- Oil and Gas
- Radiation
- Sample Information System
- Streams and Water Resources
- Storage Tanks
 - Storage Tanks Active
 - Storage Tanks Inactive
- Waste
 - Residual Waste Operation
 - Municipal Waste Operation
 - Commercial Hazardous Waste Operation
 - Captive Hazardous Waste Operation
- Water
- Areas POI - Geological
- Areas POI - Environmental
- Areas POI - General
- Boundaries
 - Zip Code Points
 - DEP Regions
 - County Boundaries
 - Municipalities
 - Zip Codes
 - State House Boundaries
 - State Senate Boundaries
 - Congressional Boundaries
 - 7.5 Minute Quad Boundaries
 - Voting Districts



eMapPA

eMapPA

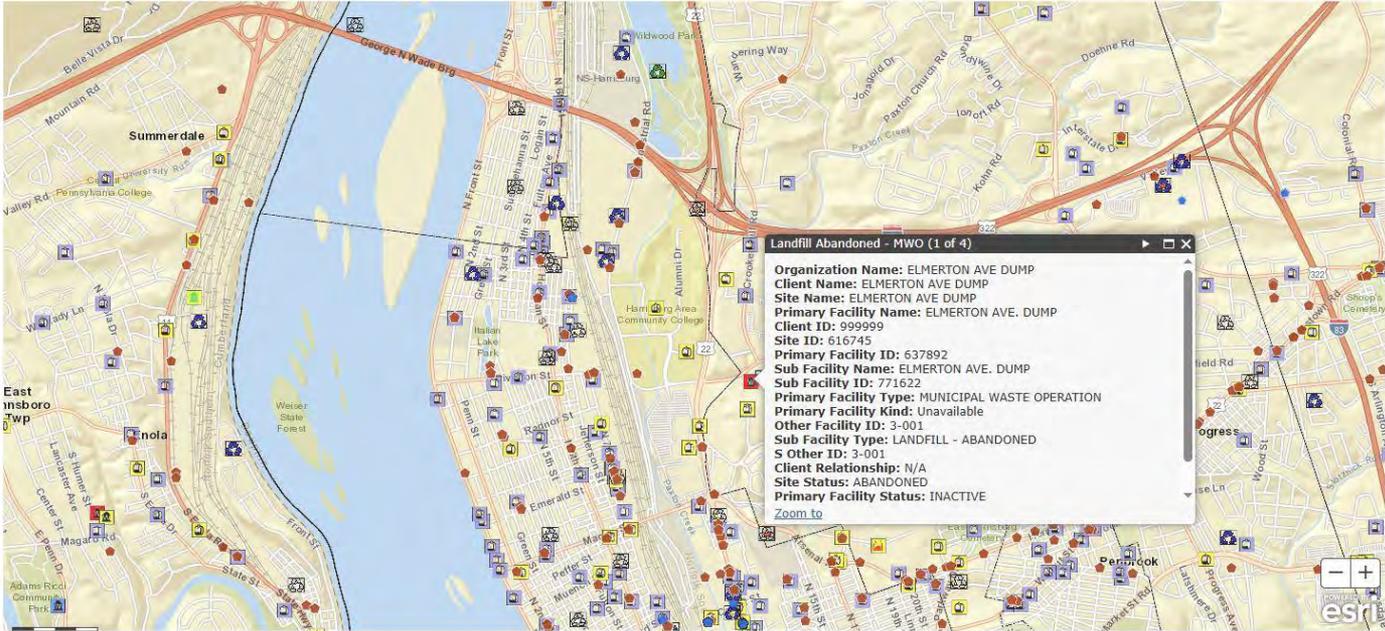
Layers Legend Tasks Themes Links

- Sediment Media
- Soil Media
- Surface Water Media
- Waste Media
- Mining
- Oil and Gas
- Radiation
- Sample Information System
- Streams and Water Resources
- Storage Tanks
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 - 7.5 Minute Quad Boundaries
 - Voting Districts

Map eFacts Query Advanced Query

ESRI Streets & Imagery Topographic National Geographic

Streets Imagery



Landfill Abandoned - MWO (1 of 4)

Organization Name: ELMERTON AVE DUMP
Client Name: ELMERTON AVE DUMP
Site Name: ELMERTON AVE DUMP
Primary Facility Name: ELMERTON AVE. DUMP
Client ID: 999999
Site ID: 616745
Primary Facility ID: 637892
Sub Facility Name: ELMERTON AVE. DUMP
Sub Facility ID: 771622
Primary Facility Type: MUNICIPAL WASTE OPERATION
Primary Facility Kind: Unavailable
Other Facility Type: 3-001
Sub Facility Type: LANDFILL - ABANDONED
S Other ID: 3-001
Client Relationship: N/A
Site Status: ABANDONED
Primary Facility Status: INACTIVE

Zoom to



eMapPA

eMapPA

Layers Legend Tasks Themes Links

- Sediment Media
- Soil Media
- Surface Water Media
- Waste Media
- Mining
- Oil and Gas
- Radiation
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Map eFacts Query Advanced Query

ESRI Streets & Imagery Topographic National Geographic

Streets Imagery

0 0.2 0.4mi

Imagery Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

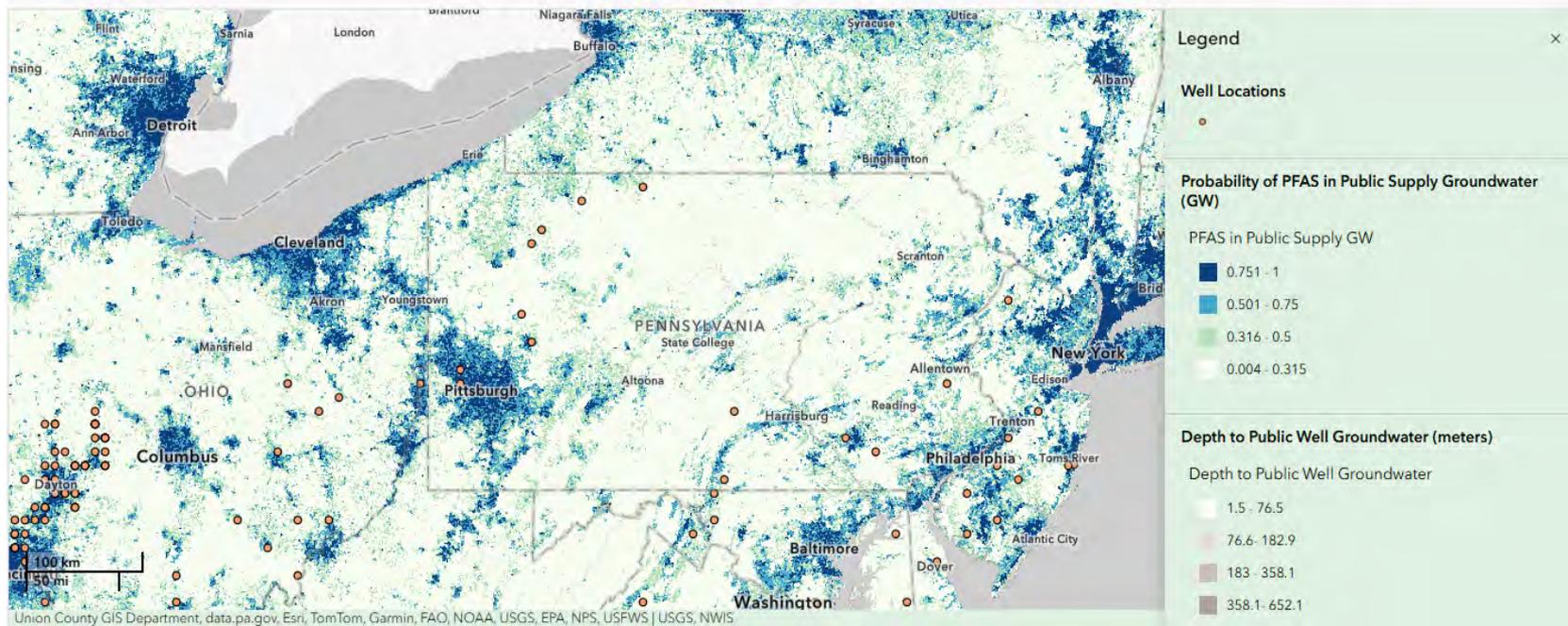


PFAS Due Diligence

US EPA, USGS, PA DEP – Numerous Other Sources Available
MOSTLY Focused on GROUNDWATER AND SURFACE WATER



PFAS in US Groundwater Interactive Dashboard

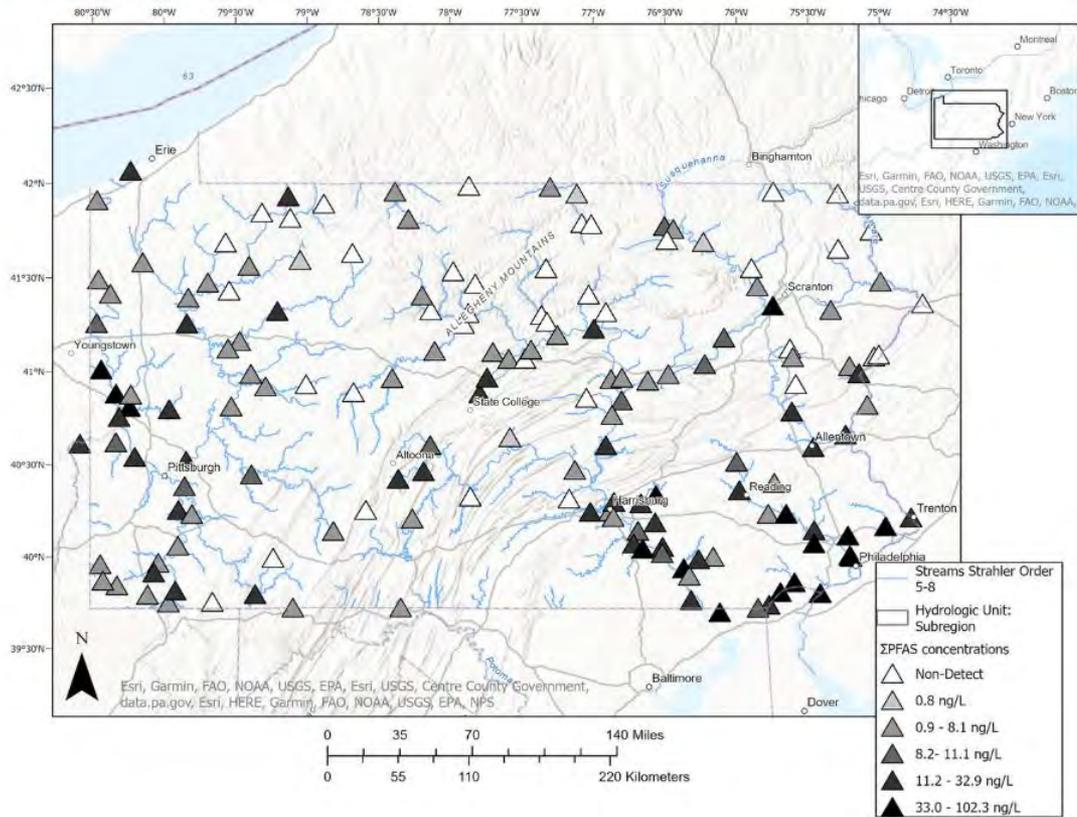


PFAS Due Diligence

IMAGES ILLUSTRATIONS

Pennsylvania state-wide surface water PFAS study

By [Communications and Publishing](#) AUGUST 21, 2023



PFAS Due Diligence

PFAS Sites and Community Resources

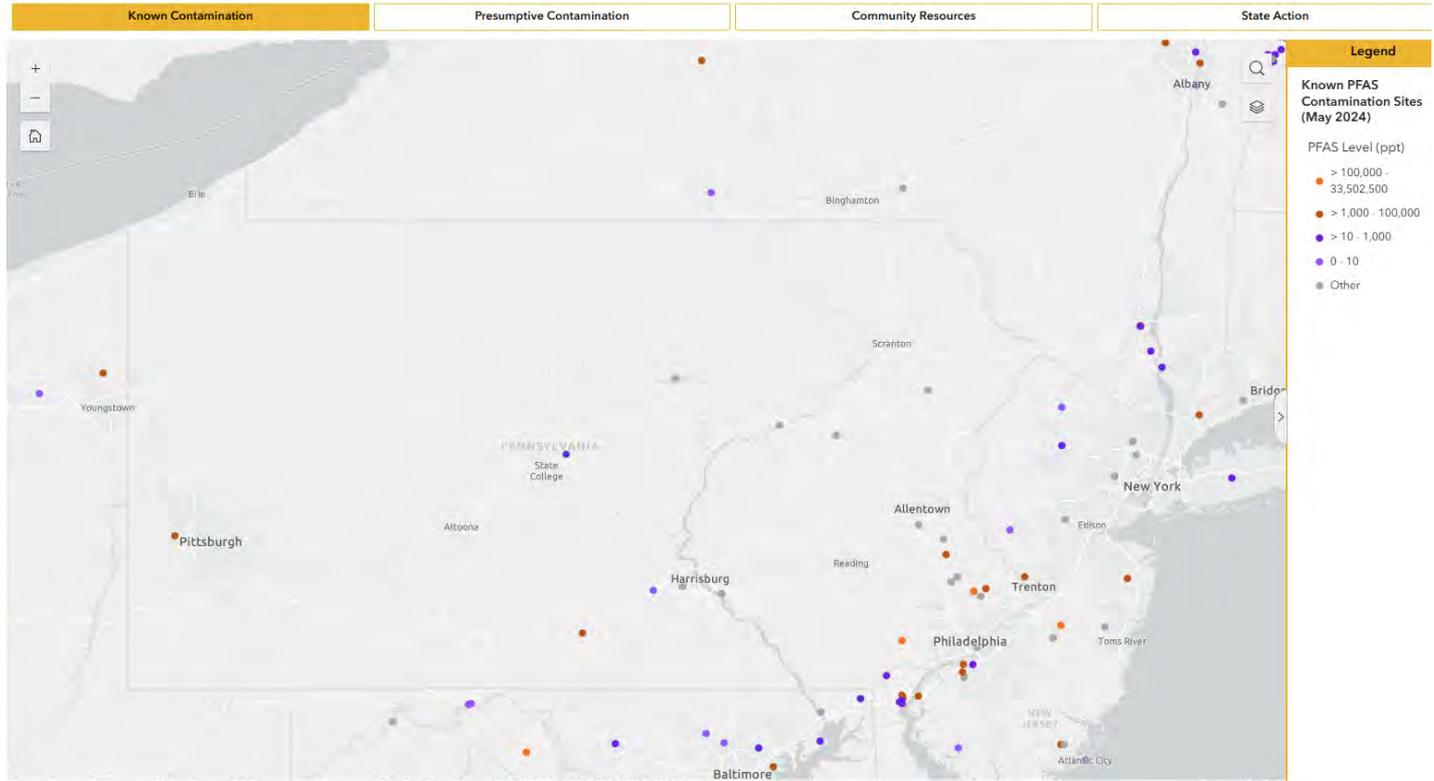
An interactive mapping project from the PFAS-REACH team

How to use this map:

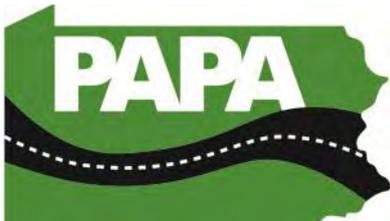
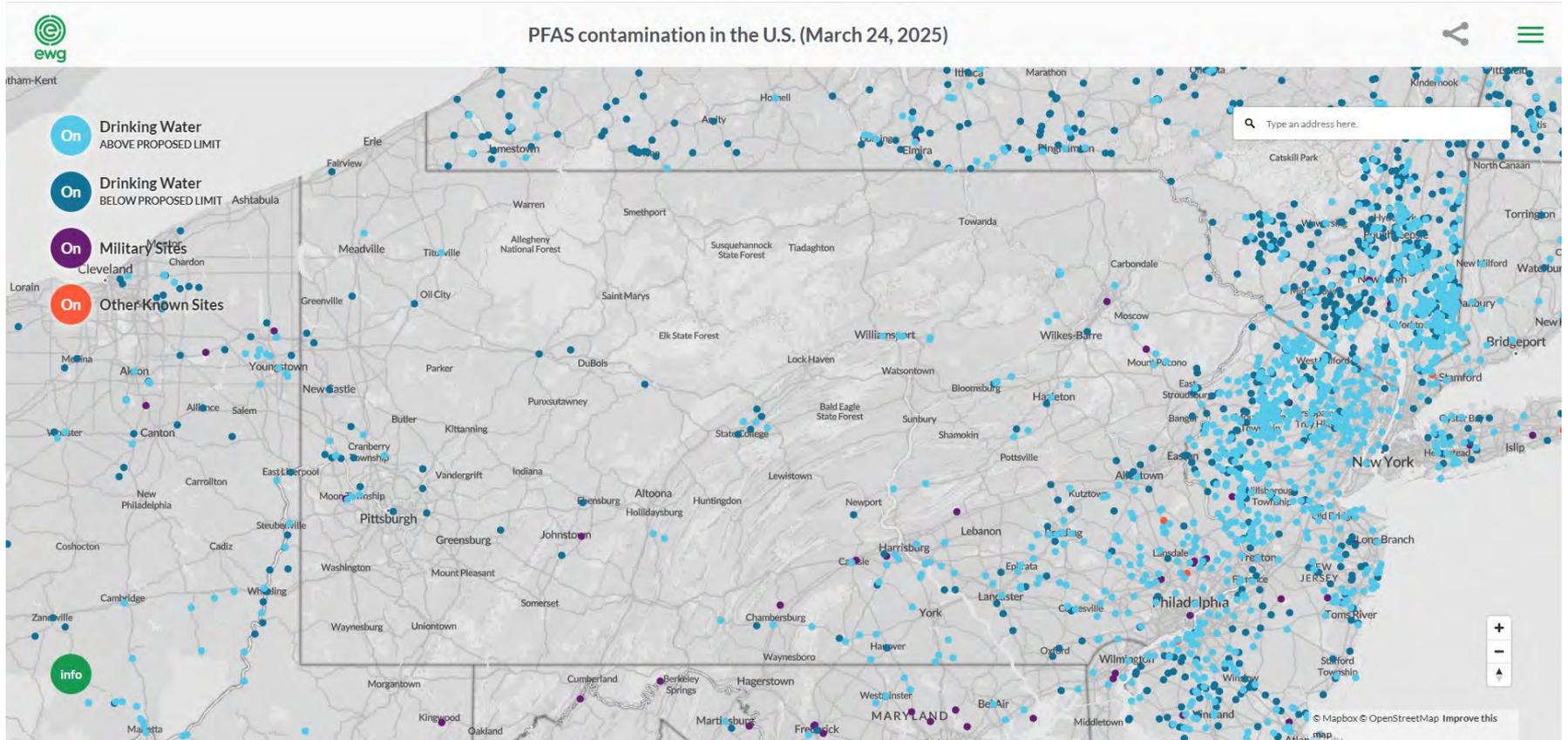
- Click on a site to learn more about it.
- Choose one of the buttons below to learn more about the layers shown on this map.
- Click the layers button in the top right of the map to display Tribal Lands boundaries.
- To collapse or expand the legend, click the arrow on the right side of the map.
- To share information with us about a site or source of contamination, please contact us.

Details: The Known Contamination map contains over 2,000 sites throughout the United States where PFAS have been tested for and detected in the environment. These sites are tracked in the PFAS Contamination Site Tracker, developed and maintained by Northeastern University's PFAS Project Lab. Due to the lack of widespread testing for PFAS, the true extent of contamination is underrepresented in this map. The number of sites identified in each state reflects the amount of testing conducted by that state, as well as the extent of PFAS contamination. Some states appear to have many contamination sites due to comprehensive statewide regulatory efforts to identify and address contamination. Conversely, states that have few known sources of contamination have likely done less testing and may not be aware of other contamination sites in their state. Please note that some sites may have incomplete or missing data due to a lack of publicly available information.

Known Contamination Sites



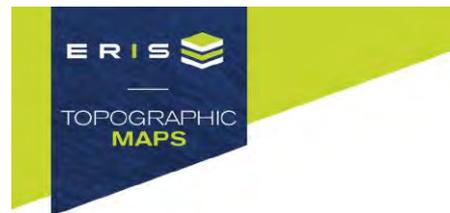
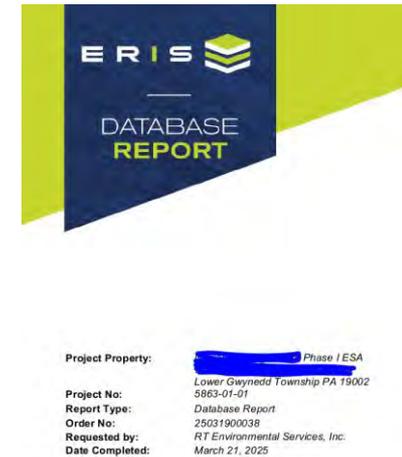
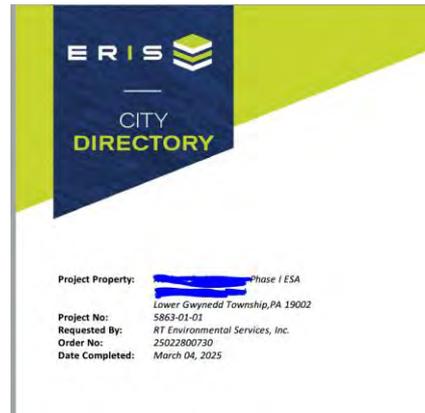
PFAS Due Diligence



Due Diligence Database Services

- ERIS or EDR Reports (typically part of Phase I ESA)
- Can be Purchased Outside of a Phase I

- Cover Page
- 2023
- 2022
- 2019
- 2017
- 2015
- 2013
- 2010
- 2008
- 2005
- 2004
- 1999
- 1992
- 1981
- 1973
- 1965
- 1958
- 1950
- 1942



Project Property: [redacted] Phase I ESA
 Lower Gwynedd Township PA 19002
 Project No: 5863-01-01
 Requested By: RT Environmental Services, Inc.
 Order No: 25031900038
 Date Completed: March 19, 2025



Due Diligence Database Services

- More Aerials, and Topographic Maps
- More Environmental Databases on Your Site AND in Your Project Area
- City Directory Listings for former Businesses In Project Area (can find listing of potential owners who could contaminate sites)

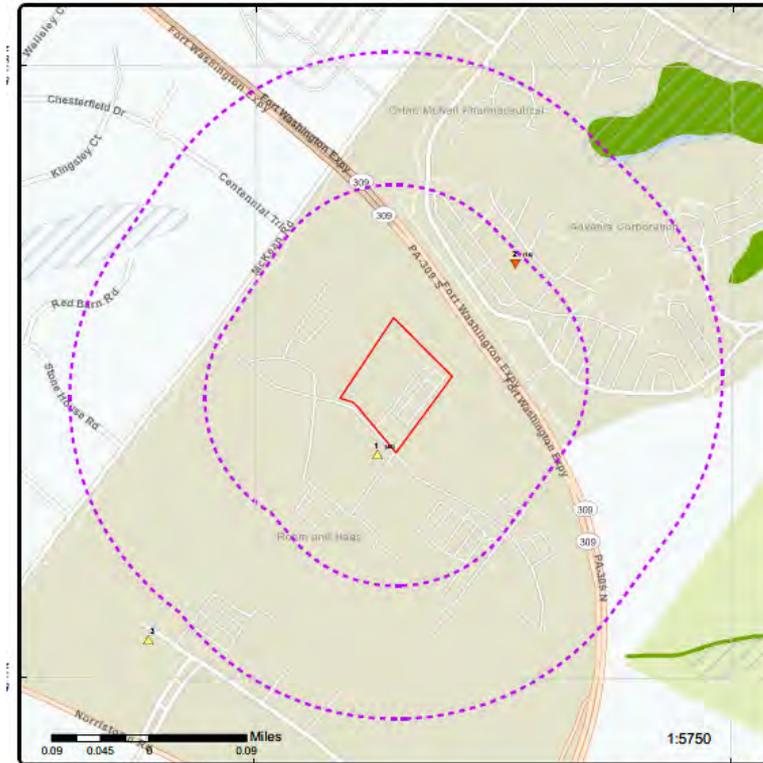
Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.125mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total														
Standard Environmental Records																						
Federal																						
NPL	Y	1	0	0	0	0	0	0														
PROPOSED NPL	Y	1	0	0	0	0	0	0														
DELETED NPL	Y	0.5	0	0	0	0	0	0														
SEMS	Y	0.5	0	0	0	0	0	0														
SEMS ARCHIVE	Y	0.5	0	0	0	0	0	0														
ODI	Y	0.5	0	0	0	0	0	0														
CERCLIS	Y	0.5	0	2	0	0	0	2														
IOD	Y	0.5	0	0	0	0	0	0														
CERCLIS NFRAP	Y	0.5	0	0	0	0	0	0														
CERCLIS LIENS	Y	PD	0	-	-	-	-	0														
RCRA CONTRACTS	Y	1	0	2	0	0	0	2														
RCRA TSD	Y	0.5	0	2	0	0	0	2														
RCRA LOG	Y	0.125	0	7	-	-	-	7														
RCRA SOG	Y	0.125	0	2	-	-	-	2														
RCRA VSOG	Y	0.125	0	4	-	-	-	4														
RCRA NON GEN	Y	PD	0	3	-	-	-	3														
RCRA CONTROLS	Y	0.5	0	0	0	0	0	0														
FED ENG	Y	0.125	0	0	-	-	-	0														
FED INET	Y	0.125	0	0	-	-	-	0														
LUCIS	Y	0.5	0	0	0	0	0	0														
NPL IC	Y	0.5	0	0	0	0	0	0														
ERNS 1982 TO 1986	Y	PD	0	1	-	-	-	1														
ERNS 1987 TO 1989	Y	PD	0	2	-	-	-	2														
ERNS	Y	PD	0	2	-	-	-	2														
FED BROWNFIELDS	Y	0.125	0	0	-	-	-	0														
FEMA LIST	Y	0.125	0	0	-	-	-	0														
FRP	Y	0.25	0	0	0	0	0	0														
State																						
DELETED HPI	Y	0.25	0	0	0	0	0	0														
HST GAS STATIONS	Y	0.25	0	0	0	0	0	0														
NBN	Y	0.25	0	0	0	0	0	0														
SUA TERMINAL	Y	PD	0	1	-	-	-	1														
HENS LIEN	Y	PD	0	1	-	-	-	1														
SUPERFUND	Y	1	0	0	0	0	0	0														
Additional Environmental Records																						
Federal																						
PFAS GHG	Y	0.5	0	0	0	0	0	0														
OSC RESPONSE	Y	0.125	0	0	-	-	-	0														
FINOSFRS	Y	PD	0	11	-	-	-	11														
TRIS	Y	PD	0	1	-	-	-	1														
PFAS NPL	Y	0.5	0	0	0	0	0	0														
PFAS FED SITES	Y	0.5	0	0	0	0	0	0														
PFAS SEHRI	Y	0.5	0	0	0	0	0	0														
PFAS ERWS	Y	0.5	0	0	0	0	0	0														
PFAS NPDES	Y	0.5	0	0	0	0	0	0														
PFAS TRI	Y	0.5	0	0	0	0	0	0														
PFAS WATER	Y	0.5	0	0	0	0	0	0														
PFAS TSCA	Y	0.5	0	0	0	0	0	0														
PFAS MANIFEST	Y	0.5	0	0	0	0	0	0														
PFAS IND	Y	0.5	0	1	0	0	0	1														
HMRS	Y	0.125	0	0	-	-	-	0														
NCOL	Y	0.125	0	0	-	-	-	0														
TSCA	Y	0.125	0	0	-	-	-	0														
HST TSCA	Y	0.125	0	0	-	-	-	0														
FTTSADAN	Y	PD	0	-	-	-	-	0														
FTTSINSP	Y	PD	0	-	-	-	-	0														
PRP	Y	PD	0	-	-	-	-	0														
SCRD DRYCLEANER	Y	0.5	0	0	0	0	0	0														
ICIS	Y	PD	0	2	-	-	-	2														
FED DRYCLEANERS	Y	0.25	0	0	0	0	0	0														
DELETED FED DRY	Y	0.25	0	0	0	0	0	0														
FLDS	Y	1	0	0	0	0	0	0														
FLDS MRS	Y	1	0	0	0	0	0	0														
FORMER WINE	Y	1	0	0	0	0	0	0														
PPFLINE INCIDENT	Y	PD	0	-	-	-	-	0														
MLTS	Y	PD	0	-	-	-	-	0														
HST MLTS	Y	PD	0	1	-	-	-	1														
MINES	Y	0.25	0	0	0	0	0	0														
State																						
SPCL	Y	0.125	0	0	-	-	-	0														
DRYCLEANERS	Y	0.25	0	0	0	0	0	0														
DELETED DRYCLEANERS	Y	0.25	0	0	-	-	-	0														
PFAS	Y	0.5	0	0	0	0	0	0														
AIR PERMITS	Y	0.25	0	0	0	0	0	0														
SEC	Y	PD	0	-	-	-	-	0														
Tribal																						
No Tribal additional environmental record sources available for this State.																						
County																						
No County additional environmental record sources available for this State.																						
<table border="1"> <thead> <tr> <th>State</th> <th>0</th> <th>14</th> <th>0</th> <th>4</th> <th>0</th> <th>14</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>0</td> <td>14</td> <td>0</td> <td>4</td> <td>0</td> <td>14</td> </tr> </tbody> </table>									State	0	14	0	4	0	14	Total	0	14	0	4	0	14
State	0	14	0	4	0	14																
Total	0	14	0	4	0	14																
<p>* PD - Property Only ** Property and adjoining properties' database search radii are set at 0.25 miles.</p>																						
<p>5 papa.com Environmental Risk Information Services Order No: 2501900038</p>																						



Due Diligence Database Services

- Site and Surrounding Areas – Potential Due Diligence Concerns?



Map: 0.25 Mile Radius

Order Number: 25031900038
 Address: 727 Norristown Road, Building 14, Lower Gwynedd Township, PA



Source: © 2021 ESRI StreetMap Premium

© ERIS Information Inc.



RT Environmental Services, Inc.

Due Diligence Database Services **PFAS**

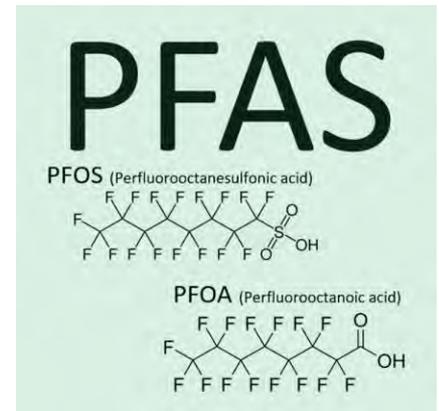
Database	Searched	Search Radius	Project Property	Within 0.125mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
LM SITES	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
CONSENT DECREES	Y	0.25	0	0	0	-	-	0
AFS	Y	PO	0	1	-	-	-	1
SSTS	Y	0.25	0	0	0	-	-	0
PCBT	Y	0.5	0	0	0	0	-	0
PCB	Y	0.5	0	0	0	0	-	0
POWER PLANTS	Y	0.125	0	0	-	-	-	0
State								
SPL	Y	0.125	0	0	-	-	-	0
DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.125	0	0	-	-	-	0
PFAS	Y	0.5	0	0	0	0	-	0
AIR PERMITS	Y	0.25	0	3	0	-	-	3
LIC	Y	PO	0	-	-	-	-	0
Tribal	No Tribal additional environmental record sources available for this State.							

PFAS Due Diligence

- Potential Impacts for Projects – Soil and Groundwater Management, Clean Fill, Health and Safety
- Free Sources for Due Diligence
- Paid Database Service Providers
- Environmental Consultant – Phase I ESAs



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- Proposed Statewide Health Standards
 - Changes Currently Proposed Likely Effective 2026 Construction Season
 - Future Changes (Arsenic)
- Due Diligence Resources
 - Spend Some Time on Due Diligence and Decide IF Testing is Needed OR NOT
 - Receiving Party of Clean Fill and Need for Testing
 - If Testing is Necessary – Check the Current SHS



OPEN DISCUSSION AND QUESTIONS

(TIME PERMITTING)

