

# 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



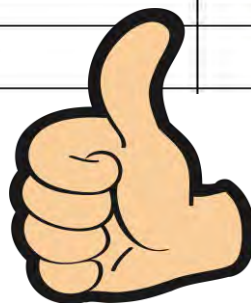


# Proposed Statewide Health Standards

## 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	<b>[6.1] 42</b> G	<b>[130] 910</b> G	G	190,000 C	C
BENZO[A]PYRENE	50-32-8	4.2 G	91 G	G	190,000 C	C
BENZO[B]FLUORANTHENE	205-99-2	<b>[3.5] 42</b> G	<b>[76] 910</b> G	G	190,000 C	C
BENZO[GHI]PERYLENE	191-24-2	13,000 G	190,000 C	C	190,000 C	C
BENZO[K]FLUORANTHENE	207-08-9	<b>[3.5] 420</b> G	<b>[76] 9,100</b> G	G	190,000 C	C
BENZOIC ACID	65-85-0	190,000 C	190,000 C	C	190,000 C	C
BENZOTRICHLORIDE	98-07-7	1.4 G	7 G	G	10,000 C	C
BENZYL ALCOHOL	100-51-6	10,000 C	10,000 C	C	10,000 C	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	C
BHC, BETA-	319-85-7	10 G	51 G	G	190,000 C	C
BHC, GAMMA (LINDANE)	58-89-9	<b>[17] 2.2</b> G	<b>[83] 32</b> G	G	190,000 C	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	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	<b>[44] 8,800</b> <b>[N] G</b>	<b>[220] 10,000</b> <b>[N] C</b>	<b>[N] C</b>	<b>[250] 10,000</b> <b>[N] C</b>	<b>[N] C</b>



RT Environmental Services, Inc.

# Proposed Statewide Health Standards

Appendix A  
Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil  
B. Soil to Groundwater Numeric Values<sup>1</sup>

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						
		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				
BENZOIC ACID	65-85-0	11,000	0.700 E	20,000	7,500 E	100,000	50,000 E	100,000	50,000 E	11,000	0.700 E	20,000	7,500 E	NA				



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# 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	<b>[110] 22</b>	G	<b>[1,600] 320</b>	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	<b>[130] 140</b>	G	<b>[1,900] 2,000</b>	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	<b>[500] 200</b>	<b>[U] I</b>	<b>[1,000] 1,100</b>	<b>[S] A</b>	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 Values<sup>1</sup>

REGULATED SUBSTANCE	CASRN	Used Aquifers								Nonuse Aquifers				Soil Buffer Distance  (feet)
		TDS < = 2500				TDS > 2500								
		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



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# 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	
<b>PERFLUOROBUTANOIC ACID (PFBA)</b>	<b>375-22-4</b>	<b>220 G</b>	<b>3,200 G</b>		<b>190,000 C</b>	
<b>PERFLUOROHXANOIC ACID (PFHxA)</b>	<b>307-24-4</b>	<b>110 G</b>	<b>1,600 G</b>		<b>10,000 C</b>	
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	
<b>POTASSIUM PERFLUOROBUTANE SULFONATE</b>	<b>29420-49-3</b>	<b>66 G</b>	<b>960 G</b>			

**PFAS Reduced, Adding  
New Compounds**



**PFAS**



**RT Environmental Services, Inc.**

# Proposed Statewide Health Standards

## Appendix A

Table 3—Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil  
B. Soil to Groundwater Numeric Values<sup>1</sup>

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		
		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	
PERFLUOROHXANOIC 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
PERFLUOROOCTANE 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
PERFLUOROOCTANOIC 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	120	46	3,000	1,200	12,000	4,600	30,000	12,000	76,000	29,000	NA

**PFAS Reduced, Adding  
New Compounds**



# Proposed Statewide Health Standards

## STATUS MARCH 2025

**From:** Sterling, Brie <[bsterling@pa.gov](mailto:bsterling@pa.gov)>  
**Sent:** Tuesday, March 11, 2025 10:59 AM  
**To:** Walter Hungarter <[whungarter@rtenv.com](mailto:whungarter@rtenv.com)>  
**Cc:** Brown, C David <[cdbrown@pa.gov](mailto: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 3<sup>rd</sup> 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](http://www.dep.pa.gov)





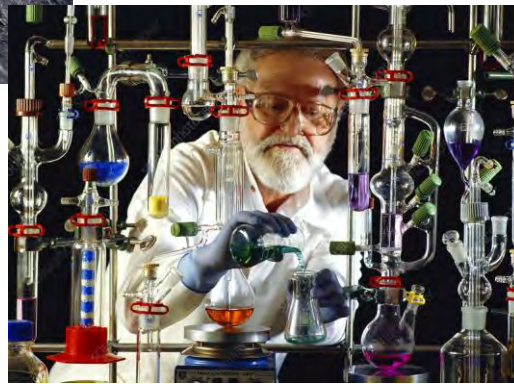
# Impact of 2024 Proposed Statewide Health Standards

**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)

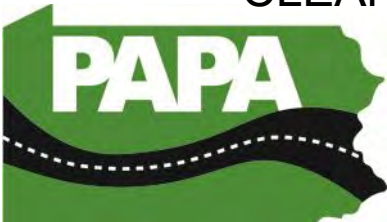


# Impact of 2024 Proposed Statewide Health Standards

**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

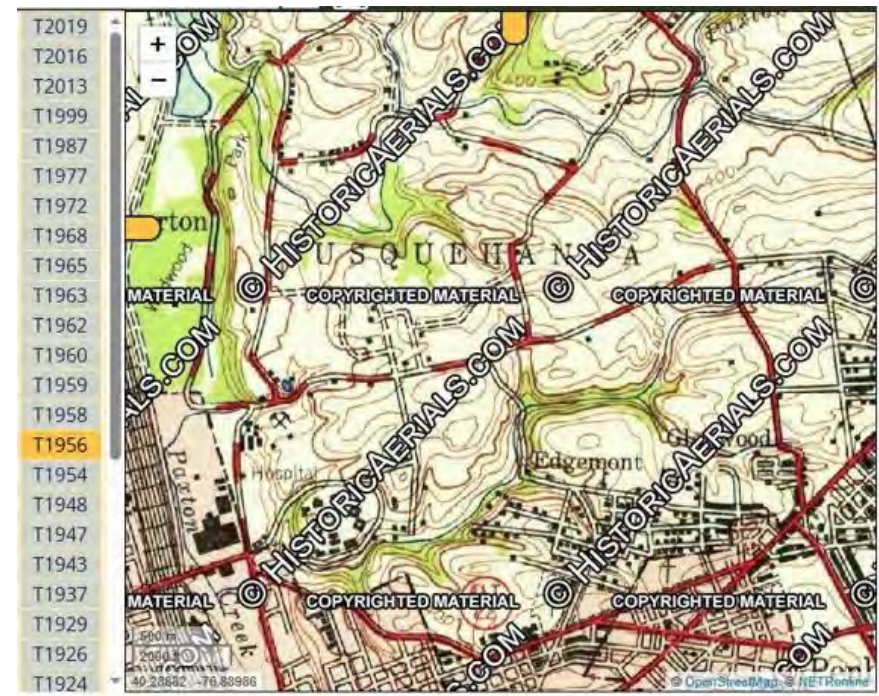
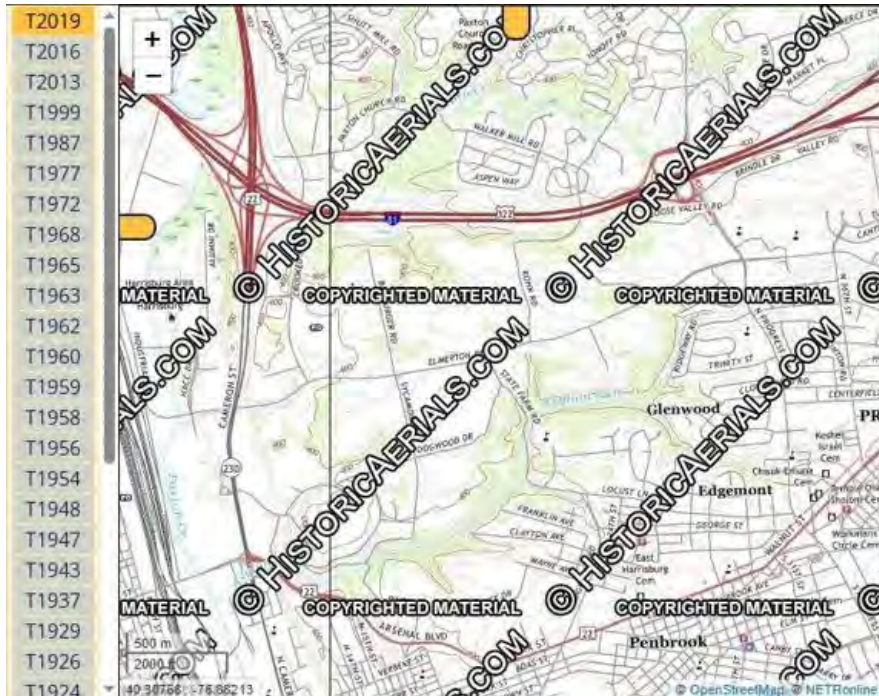
**FREE TO VIEW!!!!!!**





# HistoricAerials.com

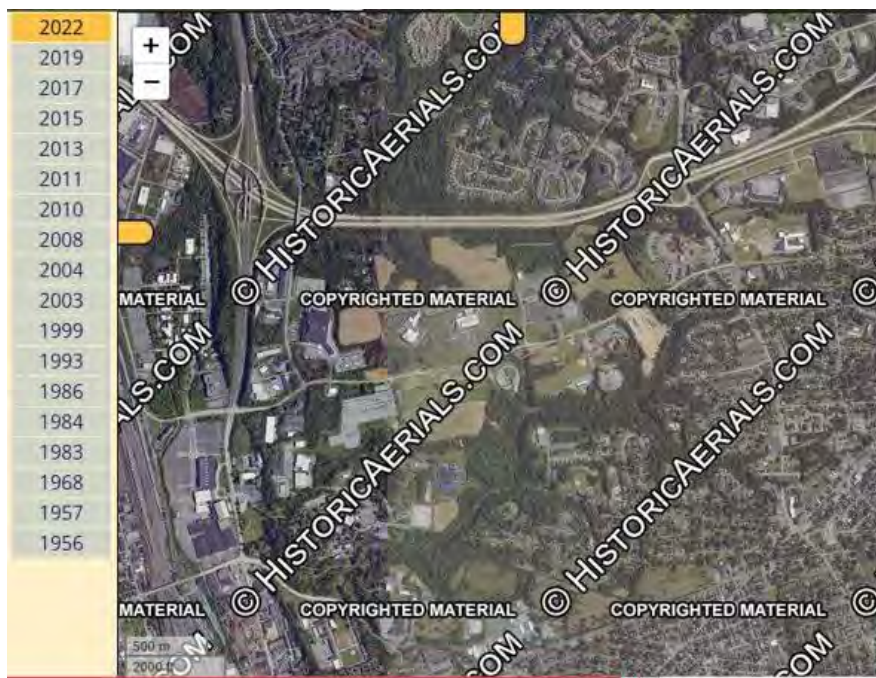
Topographic Images over Many Years






# HistoricAerials.com

## Aerial Images over Many Years



# eMapPA (IT'S FREE!)

 pennsylvania  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

Josh Shapiro, Governor   Acting Secretary Jessica Shirley   DEP Home   Help

## eMapPA


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

Map   eFacts Query   Advanced Query

ESRI Streets & Imagery   Topographic   National Geographic

Streets   Imagery

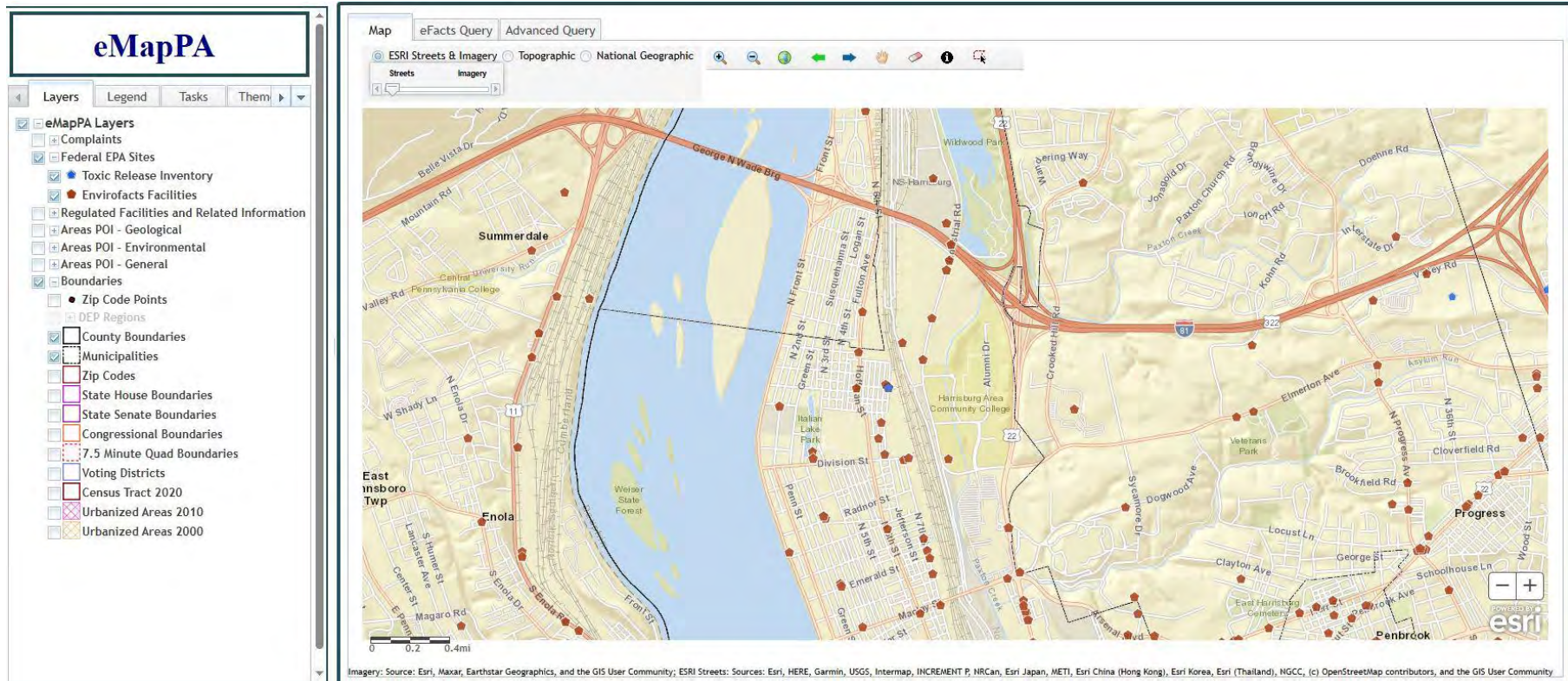


Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

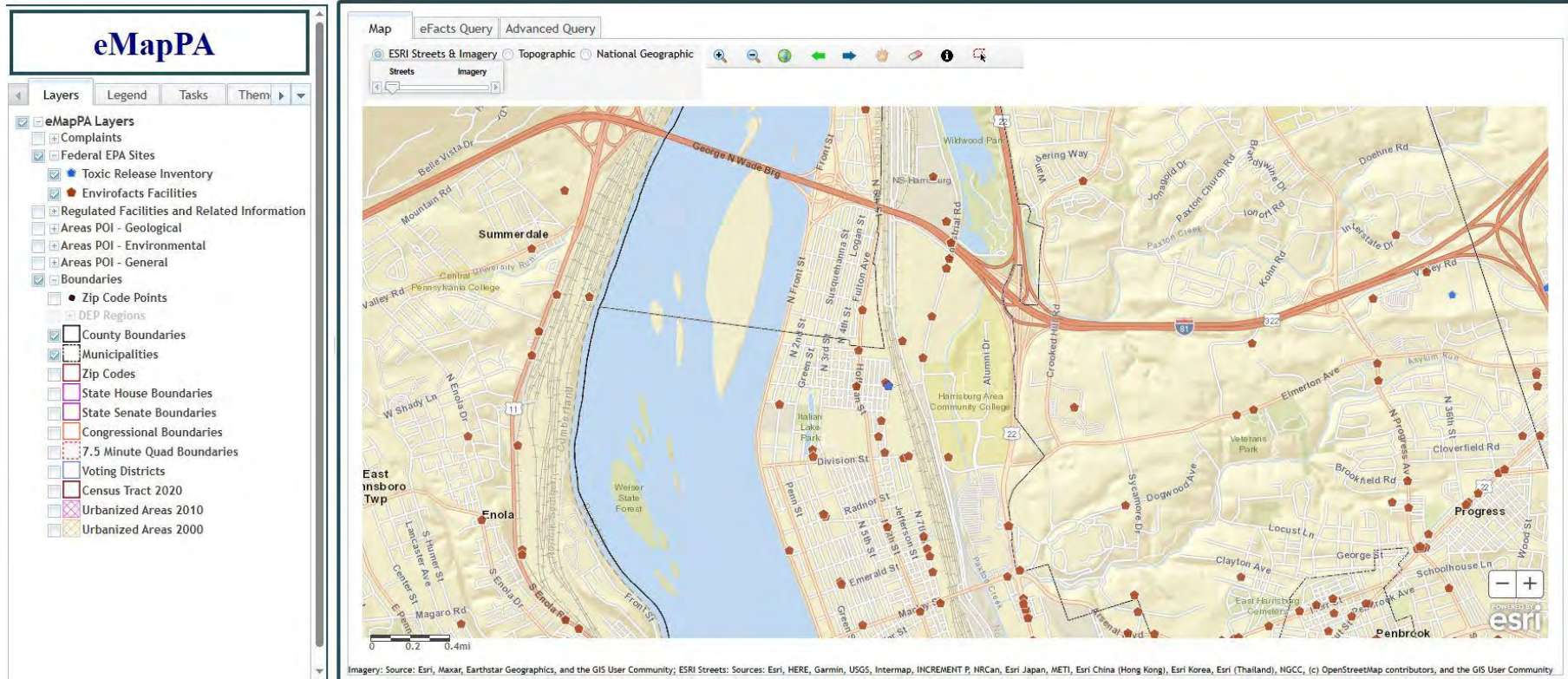




# eMapPA



# eMapPA





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**pennsylvania**  
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## eMapPA

Layers    Legend    Tasks    Them

- ☒ eMapPA Layers
  - ☐ Complaints
  - ☒ Federal EPA Sites
    - ☒ Toxic Release Inventory
    - ☒ Envirofacts Facilities
  - ☒ Regulated Facilities and Related Information
    - ☐ Air
    - ☒ Land Reuse
      - ☒ Beneficial Land Use
      - ☒ Mine Drainage Treatment Land Recycling
      - ☒ 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
  - ☐ Waste
  - ☐ Water
  - ☐ Areas POI - Geological
  - ☐ Areas POI - Environmental
  - ☐ Areas POI - General
  - ☒ Boundaries
  - ☐ Zip Code Points
  - ☐ DEP Regions

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    Them

☒ eMapPA Layers

☐ Complaints

☒ Federal EPA Sites

☒ Toxic Release Inventory

☒ Envirofacts Facilities

☒ Regulated Facilities and Related Informatic

☐ Air

☒ Land Reuse

☒ Beneficial Land Use

☒ Mine Drainage Trtmt Land Recycling f

☒ 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

☐ Waste

☐ Water

☐ Areas POI - Geological

☐ Areas POI - Environmental

☐ Areas POI - General

☒ Boundaries

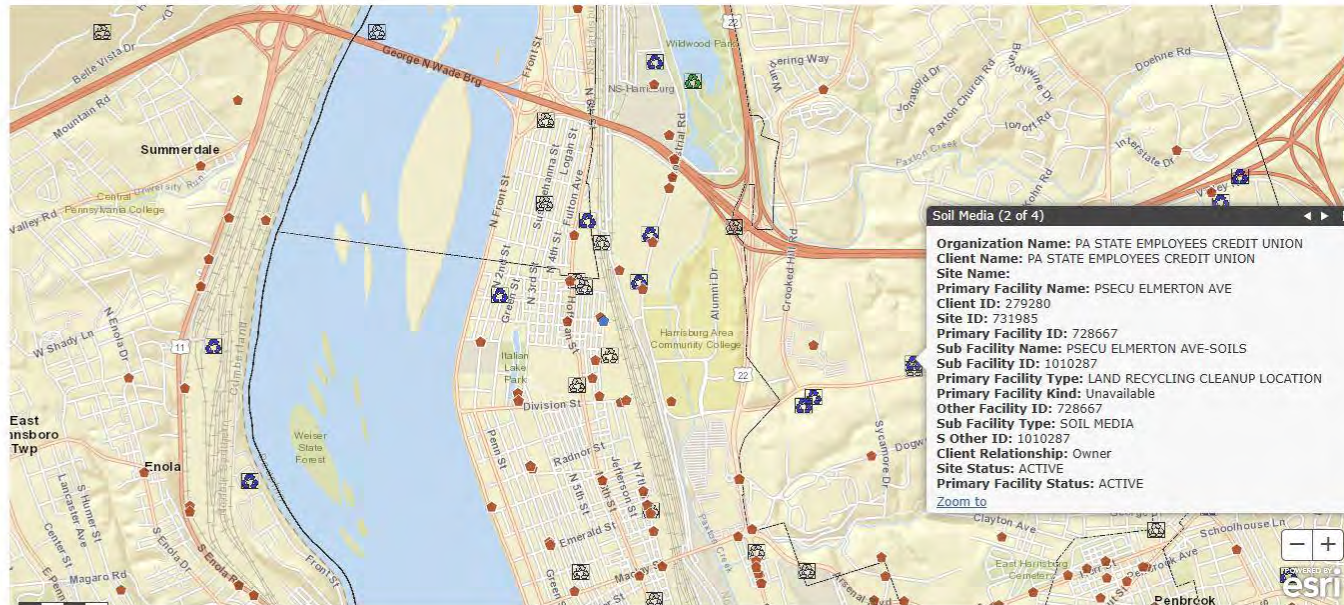
☐ Zip Code Points

☐ DFP Reservoirs

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



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## eMapPA

Layers
Legend
Tasks
Themes
Links

☒ **eMapPA Layers**

☐ Complaints

☒ Federal EPA Sites
 

- ☒ Toxic Release Inventory
- ☒ Envirofacts Facilities

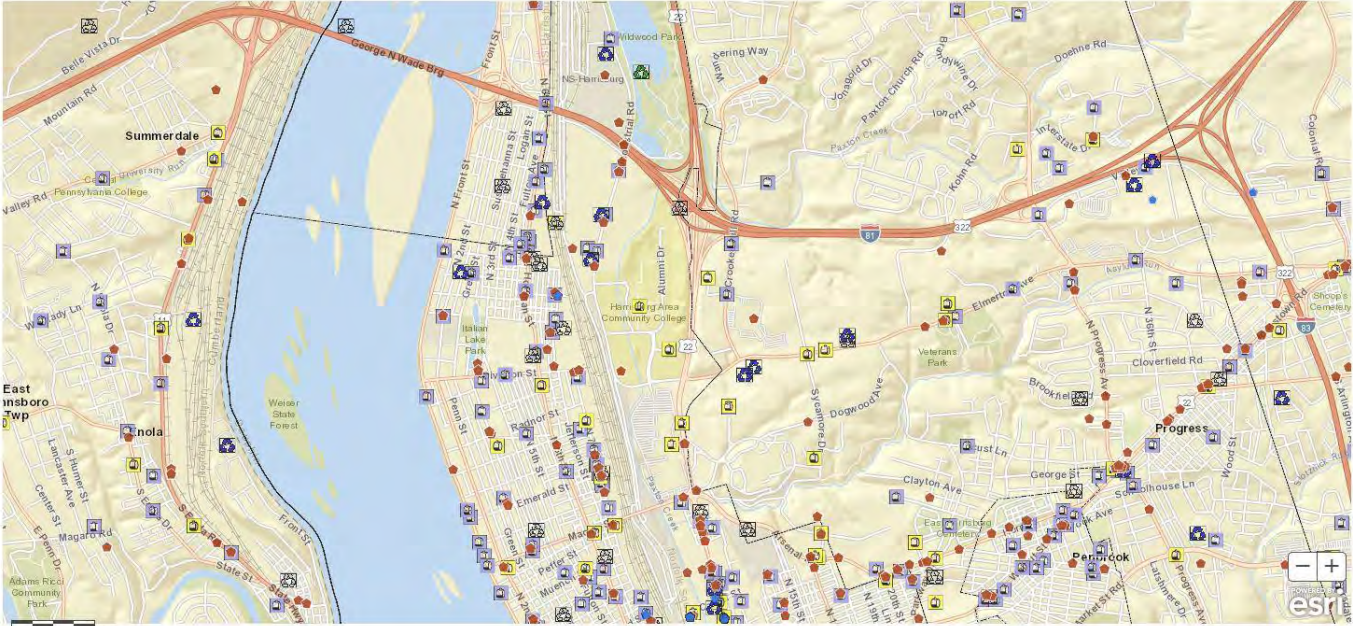
☒ Regulated Facilities and Related Information
 

- ☐ Air
- ☒ Land Reuse
  - ☒ Beneficial Land Use
  - ☒ Mine Drainage Trmt 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
- ☐ Waste
- ☐ Water
- ☐ Areas POI - Geological
- ☐ Areas POI - Environmental
- ☐ Areas POI - General
- ☒ Boundaries

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





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## eMapPA

Layers
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☒ eMapPA Layers
 

- ☐ Complaints
- ☐ Federal EPA Sites
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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

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## 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
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- ☒ 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

Map    eFacts Query    Advanced Query

ESRI Streets & Imagery    Topographic    National Geographic

Streets    Imagery





# eMapPA



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## eMapPA

Layers   Legend   Tasks   Themes   Links

- ☒ Sediment Media
- ☒ Soil Media
- ☒ Surface Water Media
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  - ☐ 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 ID:** 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](#)



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## eMapPA

Layers    Legend    Tasks    Themes    Links

☒ Sediment Media  
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Map    eFacts Query    Advanced Query

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☒ Streets    ☐ Imagery

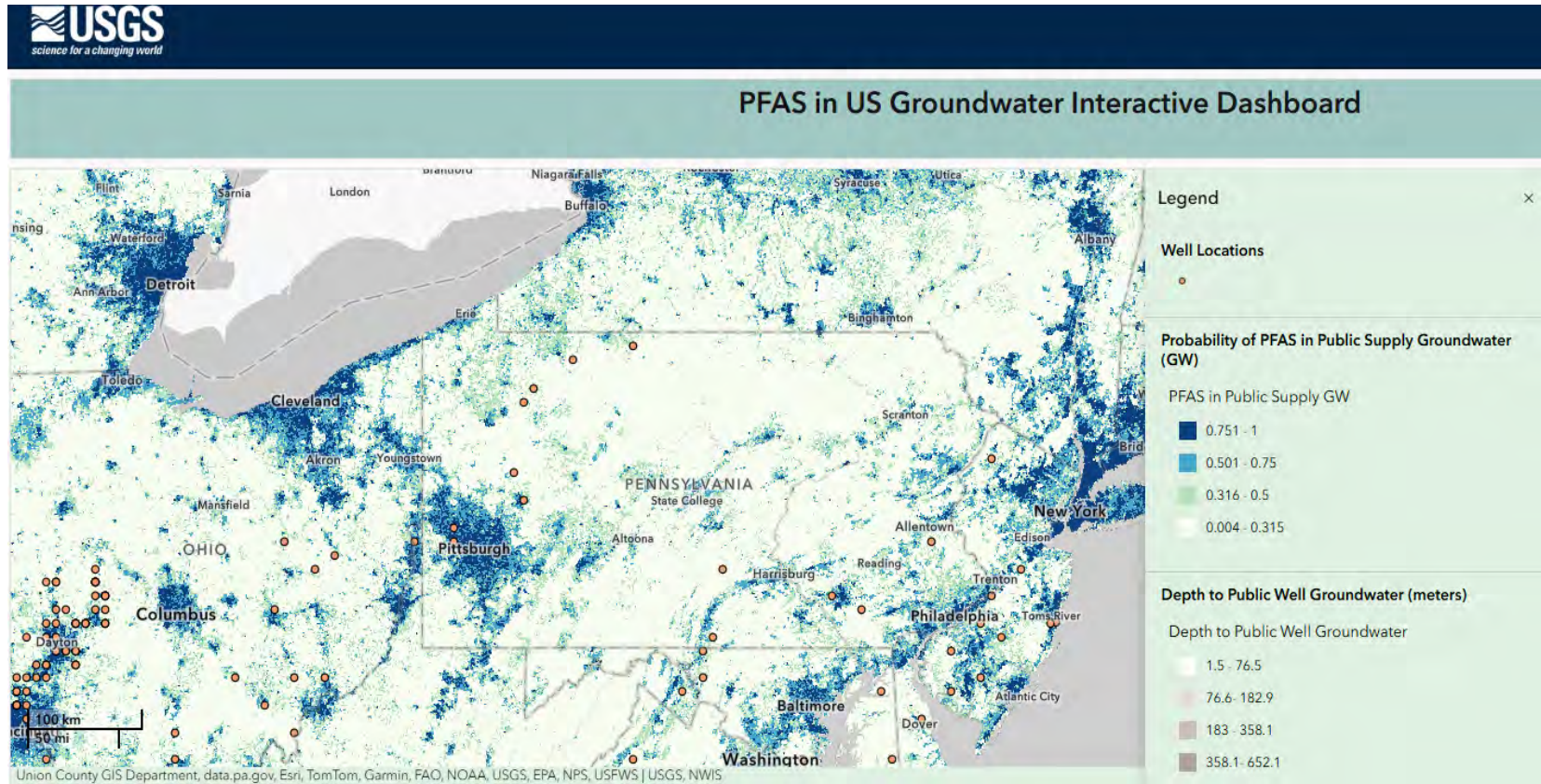
Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community





# PFAS Due Diligence

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





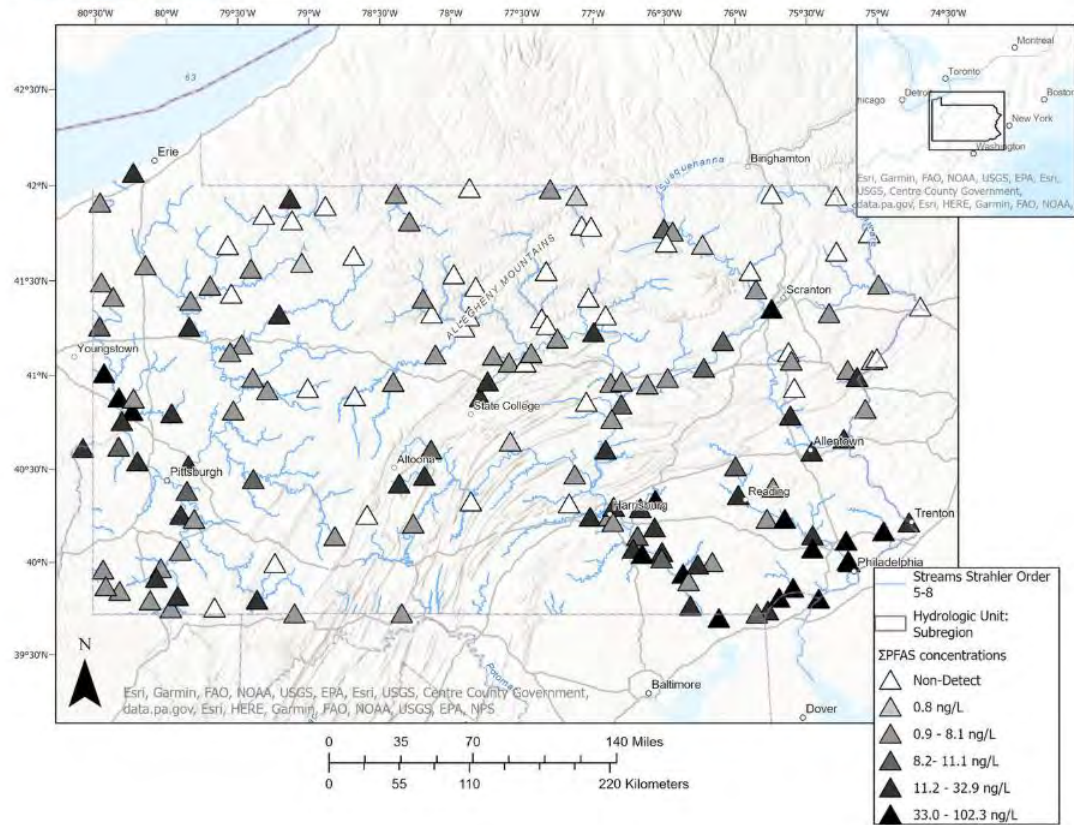
# PFAS Due Diligence



[IMAGES](#) [ILLUSTRATIONS](#)

## Pennsylvania state-wide surface water PFAS study

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



RT Environmental Services, Inc.

# PFAS Due Diligence

## PFAS Sites and Community Resources

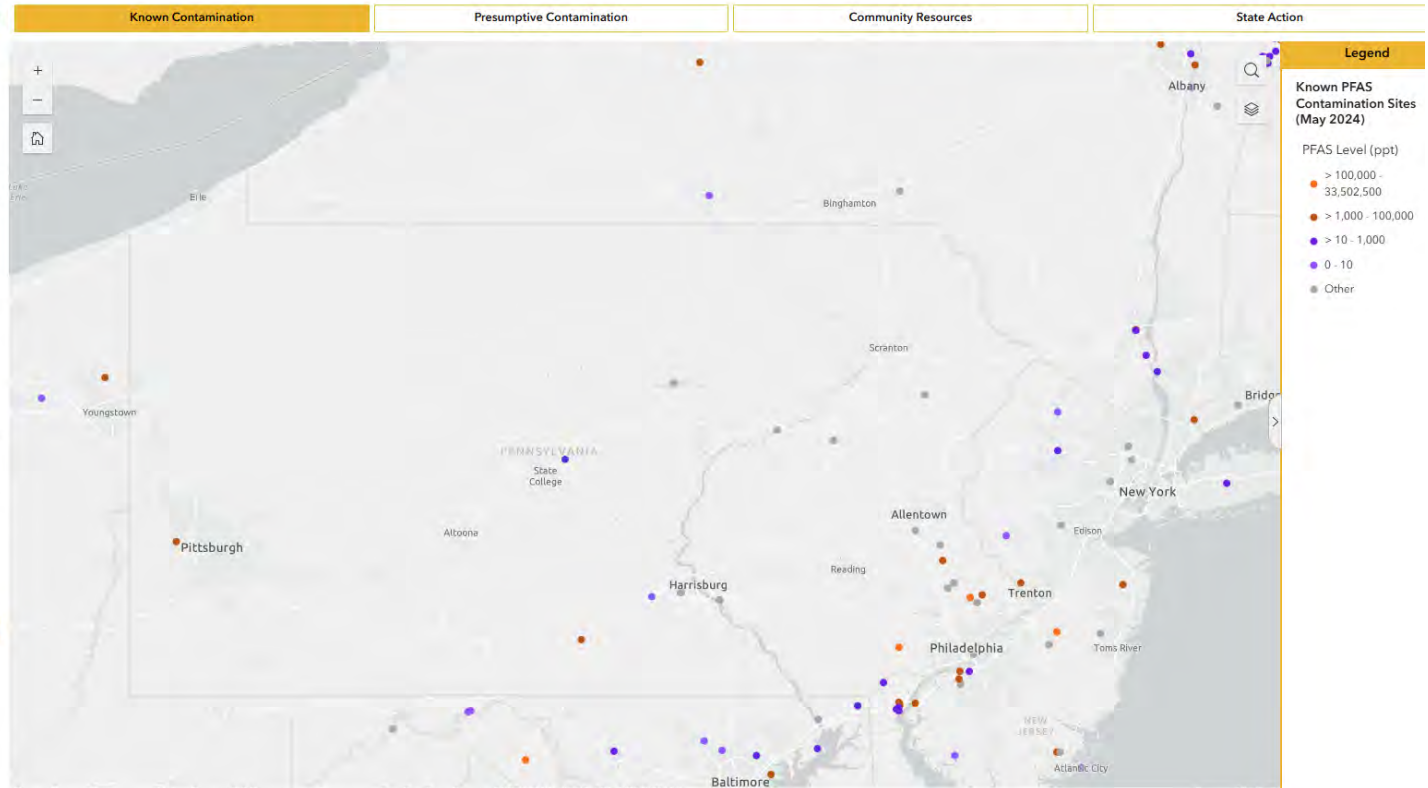
An interactive mapping project from the PFAS-REACH team

### 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.

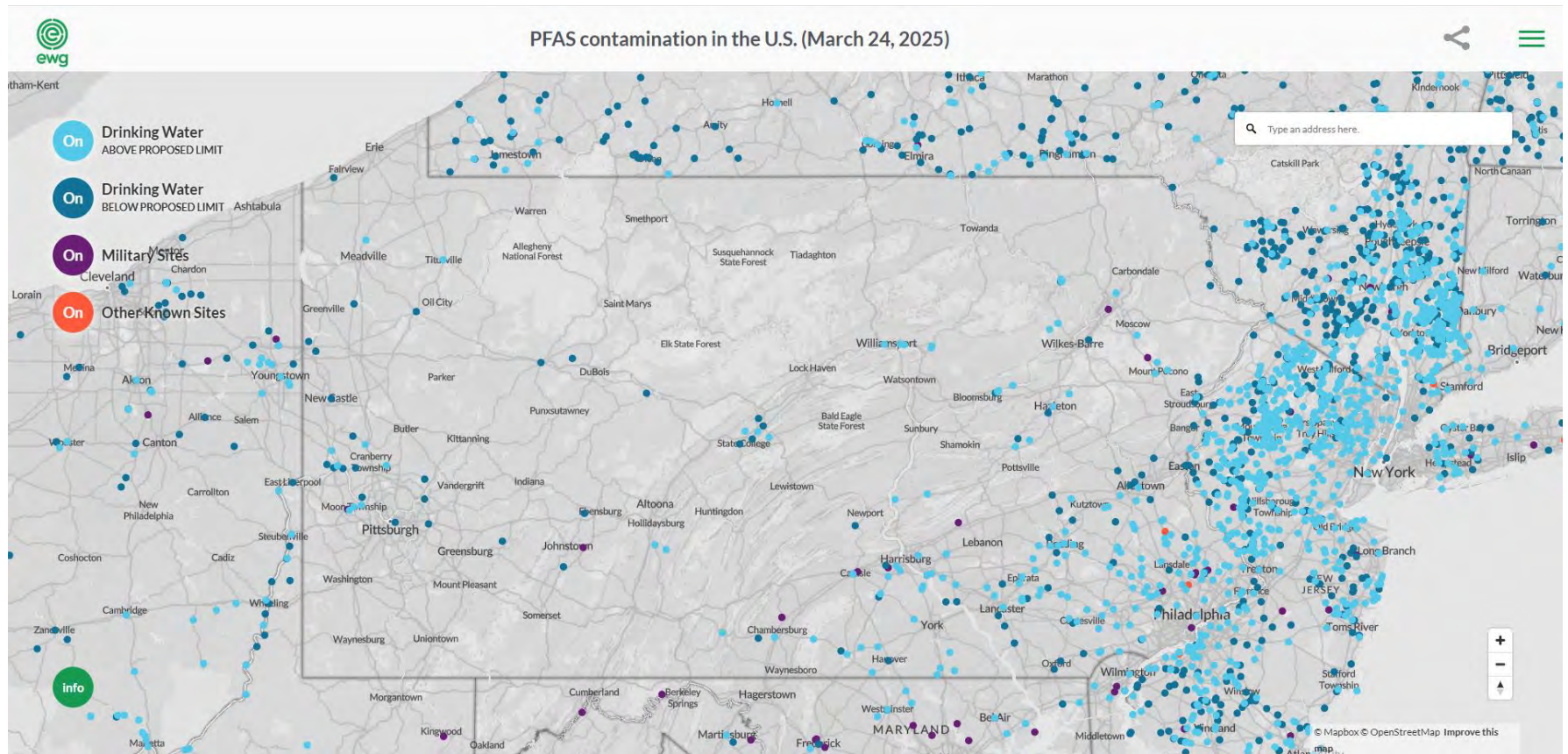
**Details:** The Known Contamination map contains over 2,000 sites throughout the United States where PFAS have been tested for and detected in the environment. These sites are tracked in the PFAS Contamination Site Tracker, developed and maintained by Northeastern University's PFAS Project Lab. Due 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





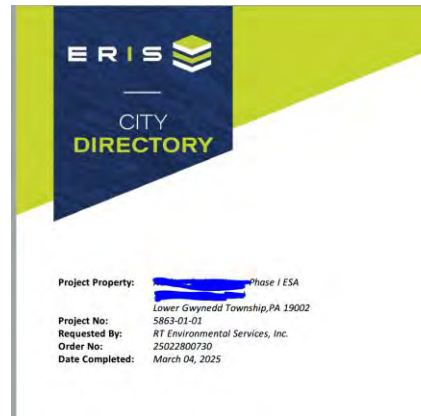
# PFAS Due Diligence



# 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](#)





# 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)

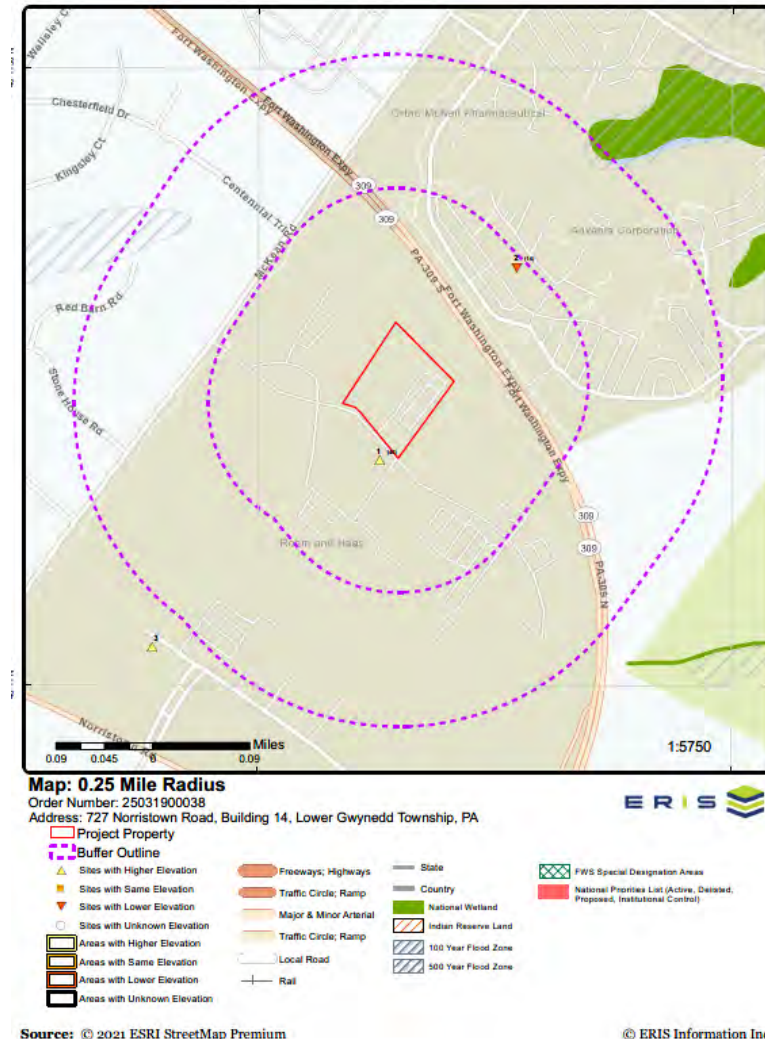
## Executive Summary: Report Summary

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	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									Additional Environmental Records								
Federal									Federal								
NPL	Y	1	0	0	0	0	0	0	DELETED RFP	Y	0.25	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0	HST GAS STATIONS	Y	0.25	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	0	0	NDN	Y	0.125	0	0	0	0	0	0
SEMS	Y	0.5	0	0	0	0	0	0	DELETED NPL	Y	0.125	0	0	0	0	0	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	0	0	SEMS	Y	0.5	0	0	0	0	0	0
ODI	Y	0.5	0	0	0	0	0	0	SEMS ARCHIVE	Y	0.5	0	0	0	0	0	0
CERCLIS	Y	0.5	0	0	0	0	0	0	ODI	Y	0.5	0	0	0	0	0	0
IOD	Y	0.5	0	0	0	0	0	0	CERCLIS	Y	0.5	0	0	0	0	0	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	0	0	IOD	Y	0.5	0	0	0	0	0	0
CERCLIS LIENS	Y	PD	0	0	0	0	0	0	CERCLIS NFRAP	Y	PD	0	0	0	0	0	0
RCRA CONTRACTS	Y	1	0	0	0	0	0	0	CERCLIS LIENS	Y	PD	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	0	0	0	RCRA CONTRACTS	Y	1	0	0	0	0	0	0
RCRA LOG	Y	0.125	0	0	0	0	0	0	RCRA TSD	Y	0.5	0	0	0	0	0	0
RCRA SOG	Y	0.125	0	0	0	0	0	0	RCRA LOG	Y	0.125	0	0	0	0	0	0
RCRA VSOG	Y	0.125	0	0	0	0	0	0	RCRA SOG	Y	0.125	0	0	0	0	0	0
RCRA NON GEN	Y	PD	0	0	0	0	0	0	RCRA VSOG	Y	0.125	0	0	0	0	0	0
ACRA CONTROLS	Y	0.5	0	0	0	0	0	0	RCRA NON GEN	Y	PD	0	0	0	0	0	0
FED ENG	Y	0.125	0	0	0	0	0	0	ACRA CONTROLS	Y	0.5	0	0	0	0	0	0
FED INET	Y	0.125	0	0	0	0	0	0	FED ENG	Y	0.125	0	0	0	0	0	0
LUCIS	Y	0.5	0	0	0	0	0	0	FED INET	Y	0.125	0	0	0	0	0	0
NPL IC	Y	PD	0	0	0	0	0	0	LUCIS	Y	0.5	0	0	0	0	0	0
ERNS 1982 TO 1986	Y	PD	0	0	0	0	0	0	NPL IC	Y	PD	0	0	0	0	0	0
ERNS 1987 TO 1989	Y	PD	0	0	0	0	0	0	ERNS 1982 TO 1986	Y	PD	0	0	0	0	0	0
ERNS	Y	PD	0	0	0	0	0	0	ERNS 1987 TO 1989	Y	PD	0	0	0	0	0	0
FED BROWNFIELDS	Y	0.125	0	0	0	0	0	0	ERNS	Y	PD	0	0	0	0	0	0
FEMA LIST	Y	0.125	0	0	0	0	0	0	FED BROWNFIELDS	Y	0.125	0	0	0	0	0	0
FRP	Y	0.25	0	0	0	0	0	0	FEMA LIST	Y	0.125	0	0	0	0	0	0
									FRP	Y	0.25	0	0	0	0	0	0
State									State								
DELETED SHAH	Y	0.5	0	0	0	0	0	0	DELETED SHAH	Y	0.5	0	0	0	0	0	0
ARCRA	Y	1	0	0	0	0	0	0	ARCRA	Y	1	0	0	0	0	0	0
SNF	Y	0.5	0	0	0	0	0	0	SNF	Y	0.5	0	0	0	0	0	0
LUST	Y	0.5	0	0	0	0	0	0	LUST	Y	0.5	0	0	0	0	0	0
LST UNREG	Y	0.5	0	0	0	0	0	0	LST UNREG	Y	0.5	0	0	0	0	0	0
LAST	Y	0.5	0	0	0	0	0	0	LAST	Y	0.5	0	0	0	0	0	0
DELETED LIST	Y	0.125	0	0	0	0	0	0	DELETED LIST	Y	0.125	0	0	0	0	0	0
UST	Y	0.125	0	0	0	0	0	0	UST	Y	0.125	0	0	0	0	0	0
AIST	Y	0.125	0	0	0	0	0	0	AIST	Y	0.125	0	0	0	0	0	0
TSWMS	Y	0.125	0	0	0	0	0	0	TSWMS	Y	0.125	0	0	0	0	0	0
UNREG TANK	Y	0.125	0	0	0	0	0	0	UNREG TANK	Y	0.125	0	0	0	0	0	0
DEL TANK	Y	0.125	0	0	0	0	0	0	DEL TANK	Y	0.125	0	0	0	0	0	0
ENG	Y	0.125	0	0	0	0	0	0	ENG	Y	0.125	0	0	0	0	0	0
IND1	Y	0.125	0	0	0	0	0	0	IND1	Y	0.125	0	0	0	0	0	0
ALA	Y	0.125	0	0	0	0	0	0	ALA	Y	0.125	0	0	0	0	0	0
VGP	Y	0.125	0	0	0	0	0	0	VGP	Y	0.125	0	0	0	0	0	0
BROWNFIELDS	Y	0.125	0	0	0	0	0	0	BROWNFIELDS	Y	0.125	0	0	0	0	0	0
WADSWORTH SUCCESSION	Y	0.125	0	0	0	0	0	0	WADSWORTH SUCCESSION	Y	0.125	0	0	0	0	0	0
CLEANUP EFFECTS	Y	0.125	0	0	0	0	0	0	CLEANUP EFFECTS	Y	0.125	0	0	0	0	0	0
DELETED BCM	Y	0.125	0	0	0	0	0	0	DELETED BCM	Y	0.125	0	0	0	0	0	0
Tribe									Tribe								
INDIAN LIST	Y	0.125	0	0	0	0	0	0	INDIAN LIST	Y	0.125	0	0	0	0	0	0
INDIAN LIST	Y	0.125	0	0	0	0	0	0	INDIAN LIST	Y	0.125	0	0	0	0	0	0
DELETED INDIAN LIST	Y	0.125	0	0	0	0	0	0	DELETED INDIAN LIST	Y	0.125	0	0	0	0	0	0
DELETED INDIAN LIST	Y	0.125	0	0	0	0	0	0	DELETED INDIAN LIST	Y	0.125	0	0	0	0	0	0
County									County								
No County standard environmental record sources available for this State.									No County standard environmental record sources available for this State.								
Database									Database								
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# Due Diligence Database Services

- Site and Surrounding Areas – Potential Due Diligence Concerns?



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 DECREEES	Y	0.25	0	0	0			0
AFS	Y	PG	0	1	-	-	-	1
SSTS	Y	0.25	0	0	0	-	-	0
POBT	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
<b>State</b>								
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
UIC	Y	PG	0	-	-	-	-	0
<b>Tribal</b>								
No Tribal additional environmental record sources available for this State.								

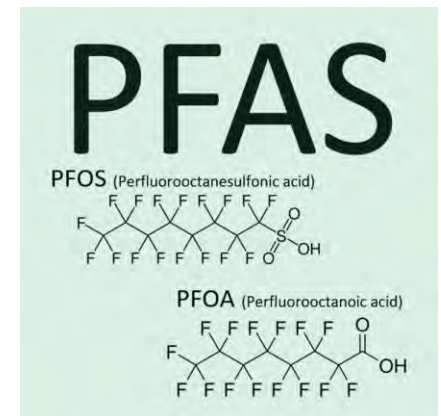


# PFAS Due Diligence

- 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)



RT Environmental Services, Inc.