


# EPA Superfund Site Data



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# Context

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“EPA’s Superfund program is responsible for cleaning up some of the nation’s most contaminated land and responding to environmental emergencies, oil spills and natural disasters”

<https://www.epa.gov/superfund>



[Gowanus Canal Superfund Site](#)

# Context

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- Around since **1980s**
- Protect **public health and the environment**
- Identify, analyze, clean up and contain sites with **hazardous waste** in U.S.
- Force **responsible parties** to perform cleanups of contaminated sites or reimburse the government
- Work with **communities** and return sites to productive use

## Why is this important?

Continued exposure to the hazardous substances can be **detrimental to human health**

The effects of **climate change** are also making these sites more dangerous (ex: flooding)

# Topics of Exploration & Perspective

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The EPA makes Superfund data publicly available on their website, but it's spread across multiple formats so it difficult to analyze the data holistically. The aim of this project is to connect all of the data in a central database to make it **more accessible**.

Many articles and visualizations map the location of the superfund sites and the status of the site, but usually not the **media and contaminants** of that site, possibly since the data is separate. Additionally, a number of sites are classified as a **Native American Entity**, but that field is also difficult to retrieve and seemingly less discussed.

# Findings

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What percent of sites are classified as having Native American Entity status? How are these sites distributed across the country?

Are there any geographical trends in the contaminated media of sites?

Which are the most prevalent chemical contaminants and what are their remedies?

# Central Units of Observation

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## Media

- **Media types** (groundwater, sediment, soil, etc.)
- **Remedies** for each type of media (excavation, monitoring, wetlands replacement, etc)
- **Contaminants** for each type of media (different chemicals)

## Status

- **Native American Entity** (Y/N, tribe name)
- **National Priorities List** (proposed, final, deleted)
- **Cleanup Status** (construction complete, human exposure under control, etc.)

# EPA Data Available

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Superfund Data and Reports:

<https://www.epa.gov/superfund/superfund-data-and-reports>

Search Superfund Site Information:

<https://cumulis.epa.gov/supercpad/Cursites/srchsites.cfm>

# Data Reports

PDFs with data in tables for Proposed, Final and Deleted NPL Sites (including Native American Entity status)

CSVs for Contaminant & Remedy data

## Superfund Data Reports

The datasets below cover active and archived contaminated sites evaluated by the Superfund program, including proposed and final National Priorities List (NPL) sites.

Show  entries

Search:

### Search for Superfund Data Reports

Document Title	Date	Document ID
<a href="#">Superfund Data and Reports Data Dictionary</a> (1 pp, 245.96 KB)	07/29/2022	401148
<a href="#">Sites with Potential Smelting-Related Operations (FOIA 1)</a> (366 pp, 1.39 MB)	10/24/2024	401496
<a href="#">Completed RODs, ROD Amendments and ESDs (FOIA 2)</a> (219 pp, 1.5 MB)	10/24/2024	401497
<a href="#">All current Proposed NPL Sites (FOIA 3)</a> (3 pp, 165.98 KB)	10/24/2024	401498
<a href="#">All current Final NPL Sites (FOIA 4)</a> (39 pp, 562.48 KB)	10/24/2024	401499
<a href="#">All current Deleted NPL Sites (FOIA 5)</a> (12 pp, 287.34 KB)	10/24/2024	401500
<a href="#">Contaminant of Concern Data for Decision Documents by Media, FYs 1982-2023 (Final NPL, Deleted NPL, and Superfund Alternative Approach Sites)</a> (0 pp, 4.98 MB)	10/24/2024	406001
<a href="#">Remedy Component Data for Decision Documents by Media, FYs 1982-2023 (Final NPL, Deleted NPL, and Superfund Alternative Approach Sites)</a> (0 pp, 2.76 MB)	10/24/2024	406002
<a href="#">CERCLA to RCRA Site Associations (FOIA 8)</a> (155 pp, 2.02 MB)	10/24/2024	406003
<a href="#">Lien on Property (FOIA 12)</a> (21 pp, 282.59 KB)	10/24/2024	406005
<a href="#">Public Settlement Report (FOIA 13)</a> (801 pp, 7.46 MB)	10/24/2024	406006
<a href="#">Superfund Alternative Approach Agreement Sites and Settlements (FOIA 14)</a> (18 pp, 254.2 KB)	10/24/2024	406007
<a href="#">Active Site Inventory (List 8R Active)</a> (5541 pp, 22.67 MB)	10/24/2024	406008
<a href="#">Archived Site Inventory (List 8R Archived)</a> (13178 pp, 45.32 MB)	10/24/2024	406009
<a href="#">Noticed Parties at Sites in SEMS (FOIA 11)</a> (10478 pp, 35.42 MB)	10/25/2024	406004
Document Title	Date	Document ID

Showing 1 to 15 of 15 entries

Previous

1

Next



# Searchable Table

Searchable table with list of all sites including status information

(“Download Excel file...” link is broken)

## Superfund

You are here: [EPA Home](#) » [Superfund](#) » [Search Sites](#) » Search Results

## Superfund Site Search Results

Found **1904** site(s) that match your search criteria listed below.

Search Criteria:

Active, Archived, or All :

[All Sites](#)

NPL Status:

[Currently on the NPL](#)  
[Deleted from the NPL](#)  
[Proposed for NPL](#)  
[Superfund Alternative Approach](#)

To conduct another search, return to the [Search Superfund Site Information](#) page.

[Download Excel file containing values for all search criteria](#)

Displaying sites 1 through 50

[Next \(51 - 100\)](#)

A ID	Site Name	City	County	State	National Priorities List Status	Superfund Alternative Approach	Construction Complete	Site-wide Ready for Anticipated Use	Human Exposure Under Control	Groundwater Migration Under Control
D981713837	<a href="#">10TH STREET SITE</a>	COLUMBUS	PLATTE	NE	Final NPL	No	Yes	Yes	Yes	Yes
D007241656	<a href="#">29TH &amp; MEAD GROUND WATER CONTAMINATION</a>	WICHITA	SEDGWICK	KS	Deleted NPL	No	No	No	Yes	Yes
N000410750	<a href="#">35TH AVENUE</a>	BIRMINGHAM	JEFFERSON	AL	Proposed NPL	No	No	No	Status Unavailable	Status Unavailable
D981710247	<a href="#">57TH AND NORTH BROADWAY STREETS SITE</a>	WICHITA	SEDGWICK	KS	Final NPL	No	Yes	No	Yes	No
D980918387	<a href="#">68TH STREET DUMP/INDUSTRIAL ENTERPRISES</a>	ROSEDALE	BALTIMORE	MD	Proposed NPL	Yes	No	No	Yes	Yes
D981548985	<a href="#">700 SOUTH 1600 EAST PCE PLUME</a>	SALT LAKE CITY	SALT LAKE	UT	Final NPL	No	No	No	No	Insufficient Data
D980397079	<a href="#">A &amp; F MATERIAL RECLAIMING, INC.</a>	GREENUP	CUMBERLAND	IL	Deleted NPL	No	Yes	Yes	Yes	Yes
D030253355	<a href="#">A. O. POLYMER</a>	SPARTA TOWNSHIP	SUSSEX	NJ	Final NPL	No	Yes	Yes	Yes	Yes
D004351003	<a href="#">A.I.W. FRANK/MID-COUNTY MUSTANG</a>	EXTON	CHESTER	PA	Final NPL	No	Yes	Yes	Yes	Yes
D980500961	<a href="#">A.L. TAYLOR VALLEY OF DRUMS</a>	BROOKS	BULLITT	KY	Deleted NPL	No	Yes	No	Yes	Yes
D024644494	<a href="#">ABC ONE HOUR CLEANERS</a>	JACKSONVILLE	ONSLow	NC	Final NPL	No	Yes	No	Yes	Yes

Displaying sites 1 through 50

[Next \(51 - 100\)](#)

# Data Approaches

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- CSV joining
- PDF tables text analysis
- Scraping table from EPA website
- Transforming data into geojson

# Visualization

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- Map that denotes sites with Native American Entity status
- Map that denotes the category of the contaminated media
- Simple charts to examine the most prevalent chemical contaminants and the remedies

# References

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- <https://www.epa.gov/superfund/what-superfund>
- <https://www.nationalgeographic.com/superfund/#charts>
- <https://www.nature.com/articles/s41467-021-22249-2>
- <https://www.climaterealityproject.org/blog/climate-change-could-spell-disaster-superfund-sites>
- <https://gowanuscanalconservancy.org/superfund/>