

# Superfund Redevelopment Mapper User Guide

2022 v3

# Superfund Redevelopment Mapper - User Guide

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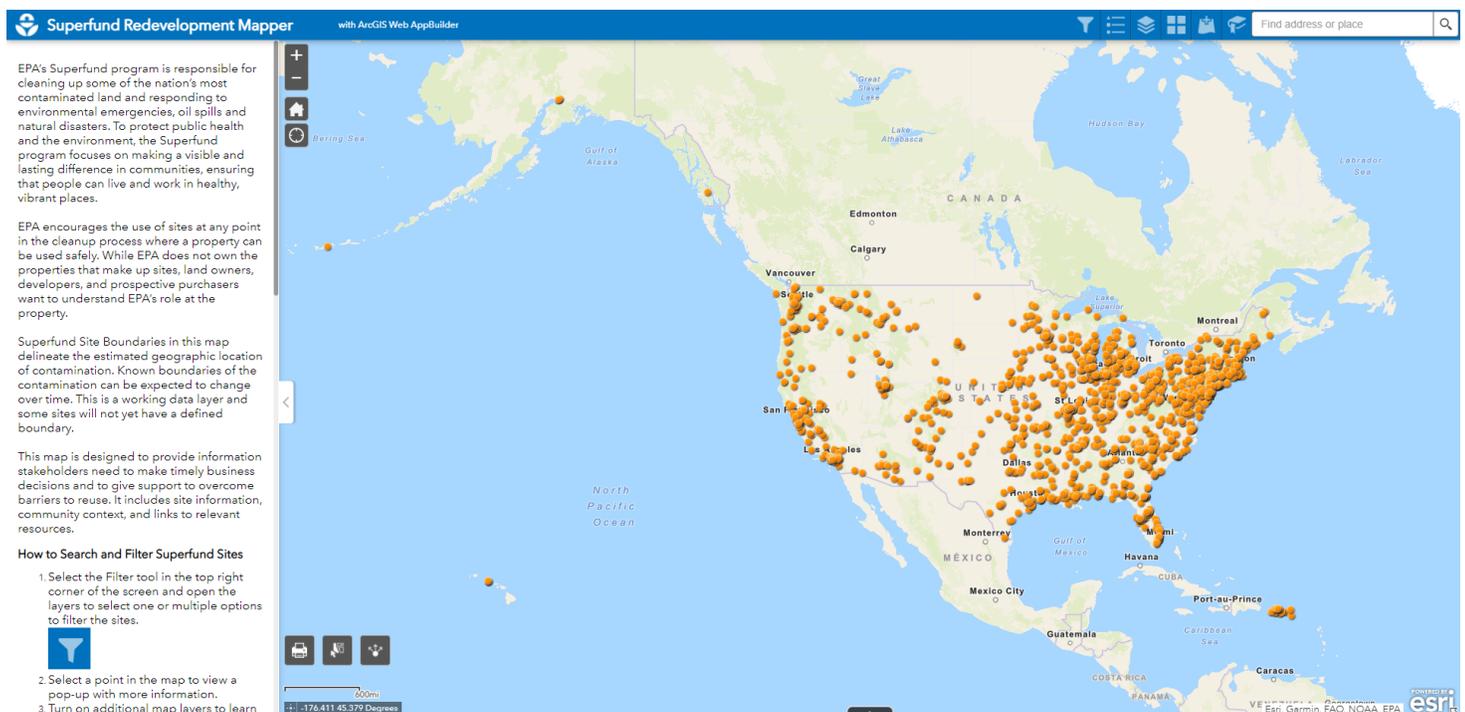
## A. Superfund Redevelopment Mapper

EPA's Superfund program is responsible for cleaning up some of the nation's most contaminated lands and responding to environmental emergencies, oil spills and natural disasters. To protect public health and the environment, the Superfund program focuses on making a visible and lasting difference in communities, ensuring that people can live and work in healthy, vibrant places.

EPA encourages the use of sites at any point in the cleanup process where a property can be used safely. While EPA does not own site properties, the Agency plays an important regulatory role at these sites by selecting and overseeing cleanup efforts to address contamination. Understandably, landowners, developers and prospective purchasers are interested in EPA's role at site properties.

EPA's Superfund Redevelopment Mapper ("app") provides the key information stakeholders and land managers need to make timely business decisions, address reuse barriers and plan for the future use of these areas. It includes site information, community context and links to relevant resources. This User Guide includes instructions for navigating the app as well as links to more resources.

To access the app, please visit <https://arcg.is/08eKXP>.



## B. Finding a Superfund Site for Redevelopment

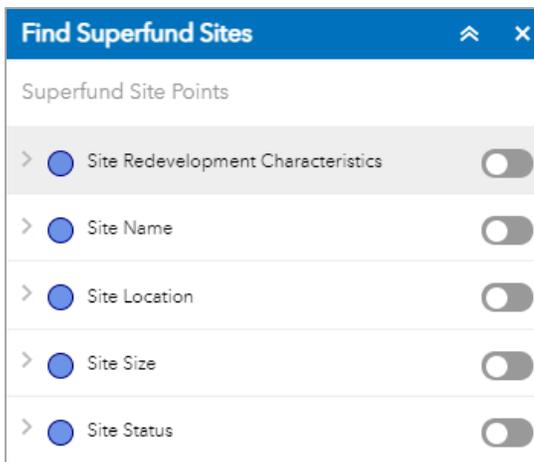
The app's map includes all proposed, current and deleted National Priorities List (NPL) Superfund sites and Superfund Alternative Approach (SAA) Agreement sites. These sites can be searched and filtered using several parameters, including redevelopment context (i.e., proximity to transportation and energy infrastructure), location, size, site status and site name.

**Please note:** The app does not yet include Superfund removal response sites. These areas can also be redeveloped.

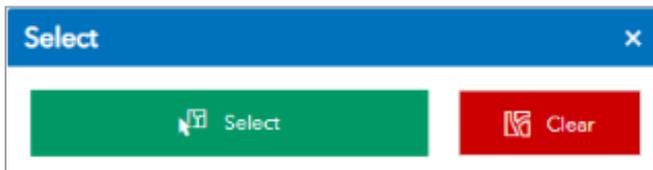
### 1. Using the Search Tools

#### 1.1. Start Your Search

- a. Select the Filter tool in the top right corner of the screen.



- c. Select a point in the map to view a pop-up with more information, or select multiple points using the Select tool in the bottom left corner of the map. You must de-select the item manually, by clicking the Clear button.
- d. The points shown on the map will update and the map will re-center as the filter changes.



#### 1.2. View Search Result Table

- a. Select the up arrow in the center of the bottom of the map.
- b. Export the search results to a text file by selecting Options in the top left corner of the table and selecting Export to CSV.

## 2. About the Search Parameters

### 2.1. Site Redevelopment Characteristics

- a. **In Opportunity Zone:** Under certain conditions, new investments in these zones may be eligible for preferential tax treatment. First designated in 2018, the zones are designed to attract private investment and strengthen the financial viability of redevelopment projects. They cover parts of all 50 states, the District of Columbia and five U.S. territories. To learn more, visit the [Superfund Redevelopment Opportunity Zones webpage](#).
- b. **Near Interstate:** Filter sites using this parameter if highway access is important for your development project. Interstate data come from the [U.S. Census Bureau's 2019 national roads geodatabase](#).
- c. **Near Railroad:** Filter sites using this parameter if your development project requires rail access. Railroad data come from the [U.S. Census Bureau's 2019 national rails geodatabase](#).
- d. **Near Electrical Power Transmission Lines:** Use this filter if you are interested in energy sector-related development. Power transmission line data come from [ArcGIS Online](#) and are provided by the [Homeland Infrastructure Foundation Level Database](#).
- e. **Urban/Rural:** The app categorizes sites using the [U.S. Census Bureau's 2010 urban-rural classification system](#) (urbanized areas of 50,000 or more people, urban clusters of at least 2,500 and less than 50,000 people, and rural areas that include all other areas not included in an urban area).

### 2.2. Site Name

Select name from dropdown or type a word in the search bar to filter the list. Many sites are known by multiple names – if searching by site name does not identify your site of interest, search by site alias instead or trying panning and zooming the map to the area of interest. Please note that some sites include multiple property parcels.

### 2.3. Site Location<sup>1</sup>

Search by state, city or [EPA Region](#). You can also enter address information into the search bar in the top right-hand corner to zoom in on the map to a location of interest.

### 2.4. Site Size

Search for sites within a certain acreage range. Please note that some sites contain multiple properties, or portions of properties, and site acreage is not necessarily equivalent to developable acreage. In addition, some sites have incomplete acreage data, so the filter

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<sup>1</sup> Each site's location is estimated using a single latitude/longitude coordinate for the purposes of identifying sites in Opportunity Zones and measuring proximity to infrastructure. As a result, this is a rough estimate that does not reflect the size and geographic extent of each site. While the site point might not be located near a highway or in an Opportunity Zone, part of the site might be in or near these areas.

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returns sites that have no acreage data in addition to sites with acreage values in your specified range.

### 2.5. Site Status

1. **NPL Status:** The National Priorities List ([NPL](#)) is the list of sites of national priority among the known releases or threatened releases of hazardous substances, pollutants or contaminants throughout the United States and its territories. The NPL helps EPA identify which sites warrant further investigation. Within the app, the NPL status of a site will be denoted with the following abbreviations:
  - D = Deleted from the NPL
  - F = Final NPL
  - N = Not on the NPL
  - P = Proposed for the NPL
  - R = Removed from the NPL
- b. **Construction Complete:** [Construction Completion](#) is a sitewide cleanup performance measure that documents the completion of physical construction of all cleanup actions, including actions to address all immediate threats and to bring all long-term threats under control.
- c. **In Reuse or Continued Use:** A site identified as being **in reuse** refers to a site or a portion of a site where a new use, or uses, are occurring such that there has been a change in the type of use (e.g., from industrial to commercial) or a previously unused property now supports a specific use. This means that customers, visitors, employees and residents (or animals and plants, in the case of ecological reuse) use the site or portion of the site for its intended purpose. A site identified as being **in continued use** refers to a site or a portion of the site being used in the same general way as when the site was first subject to Superfund review.
- d. **Superfund Alternative Approach (SAA) Sites:** The [Superfund Alternative Approach \(SAA\)](#) uses the same investigation and cleanup process and standards that are used for sites listed on the NPL. The SAA approach is an alternative to listing a site on the NPL; it is not an alternative to Superfund or the Superfund process.

### C. Examining Superfund Site Details

Once you have identified sites of interest, you can find more details and links to more information in the features in the Superfund site data layers. Access the site data layers by selecting the View Site Context icon in the top right-hand corner of the map.



To turn each layer on and off, check and uncheck the box to the left of the layer name. The feature layers include:

#### 1. Superfund Site Points

Each site's location is represented by an orange circle marking a single latitude/longitude coordinate. Click on the point feature to learn more and find a link to the site profile page with information on site history, cleanup and redevelopment (if applicable) as well as site documents.

**Please note:** *The site point features do not reflect sites' size or geographic extent.*

#### 2. Superfund Site Features

For selected sites, more map data are available. These layers are not visible until the map is zoomed into an appropriate level for their display – they will be grayed out until the zoom level activates them. If you zoom into a site point, the layers are activated and you do not see more features, there are none available for your site of interest.

##### 2.1. [Superfund Site Boundaries](#)

These boundaries delineate the estimated geographic location of contamination related to a site. Known boundaries of the contamination can be expected to change over time. This is a working data layer and some sites will not yet have a defined boundary. EPA anticipates that this data layer will be complete in September 2021. Click on the boundary feature to learn more, including a link to the documentation for the site boundary (available for some sites). *Source: EPA Office of Land and Emergency Management (OLEM) and Office of Mission Support.*

##### 2.2. [Superfund Institutional Control Boundaries](#)

These administrative or legal property use restrictions can play an important role in site cleanup because they reduce exposure to contamination by limiting land or resource use. They also guide human behavior. For instance, declarations of restrictive covenants prevent land uses that are not consistent with the level of cleanup. Click on the feature to learn more, including a link to more information about the limitation and the source of the information (available for some sites). *Source: EPA Office of Land and Emergency Management (OLEM).*

##### 2.3. [Superfund Operable Unit Boundaries](#)

These areas are parts of a site that may be divided into several distinct areas depending on the complexity of the problems associated with the site. [Review disclaimer](#). Click on the feature to learn more, including a link to more information about the limitation and the source of the information (available for some sites). *Source: EPA Office of Land and Emergency Management (OLEM).*

## D. Exploring Superfund Site Context



To learn more about the area surrounding each site, explore the additional site context layers. Select the View Site Context icon in the top right-hand corner of the map.

To turn each layer on and off, check and uncheck the box to the left of the layer name. To learn more about each layer, select the ellipses to the right of the layer name and select *Show item details*, or click the links below. Some layers may only be visible at specific scale ranges. If the layer you are interested in exploring is in light gray text, try zooming in or out until it becomes visible.

To reveal a pop-up box with a summary of the relevant information and links to more content, click on any site feature.

The screenshot displays the 'View Site Context' panel on the left and a map on the right. The panel lists various layers with checkboxes and ellipses for details. The map shows a region in Louisiana with several orange dots representing Superfund sites. A pop-up window is open over one site, providing detailed information.

**View Site Context Panel:**

- Superfund Site Points
- Site Details: Superfund Site Boundaries
- Site Details: Access and Use Limitations (Institutional Controls)
- Site Details: Superfund Operable Unit Boundaries
- Redevelopment Potential: Wind Resource
- Redevelopment Potential: Solar Resource
- Redevelopment Potential: Geothermal Resource
- Redevelopment Potential: Biomass Resource
- Redevelopment Potential: Qualified Opportunity Zones
- Community Context: Public Schools
- Community Context: Private Schools
- Community Context: Census Populated Places
- Community Context: County Boundaries
- Infrastructure: Electric Transmission Lines
- Infrastructure: Railroads
- Infrastructure: Highways (Detailed Local View)
- Infrastructure: Highways (National View)
- Demographics: Median Household Income (2018 ACS)
- Demographics: Population Density (2018 ACS)
- Demographics: Disadvantaged Communities (White House CEJST)

**Map Pop-up: AGRICULTURE STREET LANDFILL**

NEW ORLEANS, LA

**Site Details**

- Site size: 95 acres
- Construction Complete: Yes
- National Priorities List (NPL) Status: Final NPL
- Ready for Reuse/Continued Use: N

**Site Location**

- Near Interstate: 1 mile
- Near railroad: 0.5 miles
- Near power transmission lines: 0.5 miles
- In Opportunity Zone: Yes
- Urban/Rural: Urban Area (50,000+ people)

Note: This location information is an [Zoom to](#)

## 1. Redevelopment Potential

### 1.1. [Wind Resource](#)

From the Wind-RE-Powering America's Land Mapper. Contaminated lands, landfills and mine sites that have pre-screened favorably for wind resource potential. It includes data that cover the United States and U.S. territories. The site data come from EPA program offices and 16 states. *Source: EPA Office of Land and Emergency Management (OLEM), EPA's RE-Powering America's Land Initiative.*

### 1.2. [Solar Resource](#)

From the Solar-RE-Powering America's Land Mapper. Contaminated lands, landfills and mine sites that have pre-screened favorably for solar (photovoltaic) resource potential. It includes data that cover the United States and U.S. territories. The site data come from EPA program offices and 16 states. *Source: EPA Office of Land and Emergency Management (OLEM), EPA's RE-Powering America's Land Initiative.*

### 1.3. [Geothermal Resource](#)

From the Geothermal-RE-Powering America's Land Mapper. Contaminated lands, landfills and mine sites that have pre-screened favorably for geothermal heat pump potential. It includes data that cover the United States and U.S. territories. The site data come from EPA program offices and 16 states. *Source: EPA Office of Land and Emergency Management (OLEM), EPA's RE-Powering America's Land Initiative.*

### 1.4. [Biomass Resource](#)

From the Biomass-RE-Powering America's Land Mapper. Contaminated lands, landfills and mine sites that have pre-screened favorably for biopower and biofuel potential. It includes data that cover the United States and U.S. territories. The site data come from EPA program offices and 16 states. *Source: EPA Office of Land and Emergency Management (OLEM), EPA's RE-Powering America's Land Initiative.*



For more information about renewable energy, please visit [EPA's RE-Powering Mapper](#), an online interactive web application, that allows users to visualize EPA's information about renewable energy potential on contaminated lands, landfills and mine sites.

### 1.5. [Qualified Opportunity Zones](#)

Opportunity Zones are areas where new investments, under certain conditions, may be eligible for preferential tax treatment. First designated in 2018, the zones are designed to attract private investment and strengthen the financial viability of redevelopment projects. They cover parts of all 50 states, the District of Columbia and five U.S. territories. To learn more, visit the [Superfund Redevelopment Opportunity Zones webpage](#). *Feature layer by EPA. Source: U.S. Department of the Treasury Community Development Financial Institutions Fund.*

## 2. Community Context

### 2.1. [Public Schools](#)

Public schools, as defined by the Common Core Data (CCD) for the [Homeland Infrastructure Foundation-Level Data \(HIFLD\) database](#). *Source: Oak Ridge National Laboratory (ORNL)*

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*Geographic Information Science and Technology (GIST) Group, National Geospatial-Intelligence Agency (NGA) Homeland Security Infrastructure Program (HSIP) Team.*

### 2.2. [Private Schools](#)

Private schools, as defined by the Private School Survey (PSS) for the [Homeland Infrastructure Foundation-Level Data \(HIFLD\) database](#). *Source: Oak Ridge National Laboratory (ORNL) Geographic Information Science and Technology (GIST) Group, National Geospatial-Intelligence Agency (NGA) Homeland Security Infrastructure Program (HSIP) Team.*

### 2.3. [Census Populated Places Boundaries](#)

Populated place areas that include census-designated places, consolidated cities and incorporated places in the United States identified by the U.S. Census Bureau. *Source: Esri, TomTom.*

### 2.4. [County Boundaries](#)

County boundaries in all 50 states, the District of Columbia and Puerto Rico. *Source: Esri, TomTom, U.S. Department of Commerce, U.S. Census Bureau.*

## 3. Infrastructure

### 3.1. [Electric Power Transmission Lines](#)

Lines operated at relatively high voltages varying from 69 kilovolts (kV) up to 765 kV and capable of transmitting large quantities of electricity over long distances. *Source: Sarah Spalding, Esri Living Atlas curated content.*

### 3.2. [Railroads](#)

A comprehensive database of the nation's railway system. *Source: Federal Railroad Administration (FRA), Esri.*

### 3.3. [Highways](#)

Rural and urban interstate highways, part of the National Highway Planning Network, published by the Federal Highway Administration as part of the National Transportation Atlas Databases for the United States. *Source: Esri.*

## 4. Demographics

### 4.1. [ACS Median Household Income](#)

2018 ACS summary data of median household income in the United States. *Feature layer by Esri. Source: U.S. Census Bureau's American Community Survey (ACS) 2015-2019 5-year estimates, Table(s) B19013B, B19013C, B19013D, B19013E, B19013F, B19013G, B19013H, B19013I, B19049, B19053.*

### 4.2. [ACS Population Density](#)

2018 ACS summary data of population density in the United States. *Feature layer by Esri. Source: Esri, U.S. Census Bureau.*

### 4.3. [Climate and Economic Justice Screening Tool \(CEJST\) Data](#)

Communities are identified as disadvantaged for the purposes of the Justice40 Initiative, by considering environmental, climate, and socioeconomic indicators. *Static data layer downloaded from CEJST Webpage. Source: Council on Environmental Quality, White House.*

## 5. Environment

### 5.1. [USA Flood Hazard Areas](#)

Flood zones from the Flood Insurance Rate Map created by the Federal Emergency Management Agency. *Source: Federal Emergency Management Agency (FEMA), Esri.*

### 5.2. [Hydrography](#)

Rivers, streams, lakes, waterfalls, gauging stations, wells and other water-related features in the continental United States, Alaska, Hawaii and Puerto Rico. *Source: EPA.*

### E. Using Additional Map Tools

Access the tools below using the menu bar at the top right.



View a legend for active map layers.



Change the basemap. Choose from a range of background maps.



Add more geospatial data by searching for an online source, adding them from a URL or uploading a file.



Draw features on the map. Add temporary points, symbols, or text boxes to customize the look of the map.



Create a bookmark. The bookmark allows you to return to a view of the map after you zoom in to an area of interest.

The following tools are available in the top left corner.



Reset the map to the default extent.



Zoom in to your location on the map. To use this feature, allow your browser or network to detect your physical location.

The tools below are available in the bottom left-hand corner.



Print the map on the current screen. You can change the map title, layout and export format.



Select one or more features on the map. Choose which layers to select from by checking and unchecking boxes next to the layer names.



Share a link through email or social media, or by copying a link or access code to embed the app in a website.

### F. Superfund Redevelopment Program Contact Information

Contact information for Headquarters and Regional Superfund Redevelopment Coordinators:

[www.epa.gov/superfund-redevelopment/forms/contact-us-about-superfund-redevelopment-program](http://www.epa.gov/superfund-redevelopment/forms/contact-us-about-superfund-redevelopment-program)

Superfund Redevelopment Program website: <https://www.epa.gov/superfund-redevelopment>

### G. Providing Map Feedback

To provide feedback on the map or for any technical questions, contact [SRPTools@epa.gov](mailto:SRPTools@epa.gov).

### H. GIS Data Disclaimer

EPA provides this geospatial information as a public service and does not vouch for the accuracy, completeness or currency of the data. Data provided by external parties are not independently verified by EPA. These data are made available to the public strictly for informational purposes. Data do not represent EPA's official position, viewpoint or opinion, express or implied. This information is not intended for use in establishing liability or calculating cost recovery statutes of limitations and cannot be relied upon to create any rights, substantive or procedural, enforceable by any party in litigation with the U.S. or third parties. EPA reserves the right to change these data at any time without public notice.