



Cuyahoga County
Together We Thrive

Cuyahoga County Local Emergency Planning Committee (LEPC): *Tier II Reports and More!*



Topics

- LEPC Basics
- Chemical Facility Requirements
 - Annual Tier II Chemical Inventory Reports
 - New Chemical Notifications
 - Spill/Release Notification & Reporting
- Facility Site Visit Program
- Resources
 - ReadyEx
 - SERC Facility Reporting Compliance Manual
 - CAMEO Chemicals



LEPC Basics



LEPC = Local Emergency Planning Committee

- A county board involved with planning, coordination, and communication on issues involving hazardous materials
- **NOT** a response agency!
- Represented by diverse sectors including: *Community Groups (Red Cross, COAD, ASSP), Education (Case Western, CSU), Emergency Management (CCOEM, Cle OEM), Environmental (NEORSD, OH EPA), Fire, Hazmat, Health (CCBH), Hospitals (UH), Industry (City Plating, Howmet, McGean, NASA), Law Enforcement (CCPCA, RTA PD), Transportation (ODOT)*
- **Responsibilities:**
 - Chemical inventory reporting for regulated facilities
 - Development and maintenance of county Hazmat Plan
 - Annual exercise of Hazmat Plan
 - Conduct hazmat-related training
 - Providing the public with chemical information per Community Right-to-Know laws
 - Track and receive hazmat spill/release reports
 - Utilize chemical information to assess hazards and best prepare county for hazmat incidents

LEPC Basics



Meetings held every other month

- first Monday (unless a holiday)
- Open to the public

2023 Meeting Schedule

Date	Time	Location
Monday, January 9	1:30 pm	NEORSD EMSC 4747 E. 49th St. Cuyahoga Heights, OH 44125
Monday, March 6	1:30 pm	NEORSD EMSC
Monday, May 1	1:30 pm	NEORSD EMSC
Monday, July 10	1:30 pm	NEORSD EMSC
Monday, September 11	1:30 pm	NEORSD EMSC
Monday, November 6	1:30 pm	NEORSD EMSC

Meeting Schedule also listed on
our website:

<http://lepc.cuyahogacounty.us/>

Chemical Reporting Requirements



The Emergency Planning and Community Right-to-Know Act (EPCRA), part of the Superfund Amendments and Reauthorization Act (SARA) mandates facility reporting requirements (ORC 3750). Four types of reporting to submit to the LEPC:

➤ EPCRA Section 302: EHS Notification

- One-time notification for facilities that bring a **new EHS** onto facility in amounts **at or above the threshold** planning quantity, **within 60 days** of arrival to facility
- Any change in EHS location/storage manner/removal from facility, within 30 days of the change

➤ EPCRA Section 304: Release Notification and follow-up report

- Following the **release of an EHS, CERCLA Hazardous Substance, or oil** in amounts **exceeding the Reportable Quantity (RQ)**, LEPC and other agencies must be **notified within 30 minutes** (or whenever practical)
- A **follow-up written report** must be submitted to the LEPC and SERC **within 30 days** following the incident

➤ EPCRA Section 311: Hazardous Chemical Notification

- One-time submission of SDS or list of hazards associated with chemicals brought on-site, within 90 days of arrival to facility

➤ EPCRA Section 312: Annual Chemical Inventory Reports

- Tier II Reports are for facilities that have **hazardous and extremely hazardous chemicals** in amounts **exceeding threshold quantities**, to be **submitted annually by March 1**

All notices/reports should be sent via email- LEPC@cuyahogacounty.us

Annual Tier II Reports



Who must submit:

- Facilities subject to the OSHA Hazardous Communication Standard, 1910.1200
- Facilities with one or more **Hazardous Chemicals**
 - Threshold reporting quantity is 10,000 pounds or more
 - >75,000gal of gasoline
 - >100,000gal diesel
- Facilities with one or more **Extremely Hazardous Substance (EHS)**
 - Must report if chemical is at or above 500 pounds -OR- the Threshold Planning Quantity (TPQ), whichever is less for that chemical
 - There is a list of all EHS chemicals with their TPQs found on the U.S. EPA website (<https://www.epa.gov/epcra/consolidated-list-lists>)

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Methyl isothiocyanate	556-61-6	500	500		313		
2-Methylactonitrile	75-86-5	1,000	10	10	313	P069	
Methyl mercaptan	74-93-1	500	100	100	313s	U153	10,000
Methylmercuric dicyanamide	502-39-6	500/10,000	500		313c		

Annual Tier II Reports



Due March 1 annually- covers the previous calendar year's inventory

- Must include:
 - Facility identification form
 - Emergency and hazardous chemical inventory form
 - Site map
 - Signature

All components included in Tier2 Submit

Submit to each of the following agencies:

- Local Fire Department
- State Emergency Response Commission (SERC)
- County LEPC



Cuyahoga County LEPC strongly encourages using Tier2 Submit



Annual Tier II Reports



Why use Tier2 Submit?

- User-friendly features, including:
 - Free to download- <https://www.epa.gov/epcra/tier2-submit-software>
 - An electronic user manual accessible through the Help button
 - Auto save feature
 - Logical organization of data and easy navigation
 - State-specific fields (for companies with multiple locations)
 - Drop down lists for many of the data entry fields
 - Real-time validation that checks for required information and basic data errors
 - A duplicate facility feature
 - Basic and advanced search features
 - Easy import and export of data
 - Import data from previous year- then update with new info
 - Makes annual updates/changes MUCH easier!



Tier2 Submit: What's new





Tier2 Submit- changes in new version (2022)

- Fixed a bug in the original Tier2 Submit 2022 release that prevented attachments from being deleted (rev 1). If you downloaded the original 2022 update and are having issues, download the new revised version
- Updated the Extremely Hazardous Substance (EHS) checks to match the latest regulatory information from the EPA List of Lists.
- Quick Guide popups once you start the program (only appear the first time)

Tier2 Submit: What's new



Tier2 Submit- changes in new version (2022)

- Fixed a bug in the original Tier2 Submit 2022 release that prevented attachments from being deleted (rev 1). If you downloaded the original 2022 update and are having issues, download the new revised version
- The original Tier2 Submit 2022 had a bug that prevented attachments from being deleted; the “rev 1” update fixes this. If you **haven't submitted** your Tier II report for reporting year 2022, we **recommend that you download this newer version**. If you've already **begun entering data** into the original Tier 2 Submit 2022: (1) **make an export file** of your data from the original Tier2 Submit 2022 version, (2) **download and install the updated “rev 1” version** to the default location, and (3) **open the new “rev 1” version and import your data** from step 1 above.
 -  [Download Tier2 Submit 2022 “rev 1” for Windows \(exe\)](#)
 -  [Download Tier2 Submit 2022 “rev 1” for Macintosh \(dmg\)](#)

Tier2 Submit: What's new



Tier2 Submit- changes in new version (2022)

- Updated the Extremely Hazardous Substance (EHS) checks to match the latest regulatory information from the EPA List of Lists.
- We often see Reports with incorrect chemical info, i.e., a chemical is marked as EHS when it should not be. As an example, oxygen is listed with the correct CAS number but erroneously listed as EHS. The software flags the entry because oxygen is not an EHS chemical. The prompt provides the EPA's List of Lists where EHS chemicals are listed. If the user were to look at the List, oxygen would not be on there.
- Why this is important for us: we do additional analysis on our EHS facilities. The software checks the EHS listings, so we don't have too. A small task for one chemical at one facility, but we have 950+ Tier II Reports and some sites have 100+ chemicals on site.

Chemical Name ⓘ

oxygen

CAS Number * ⓘ

7782-44-7



Chemical Category * ⓘ



Pure



Mixture

EHS * ⓘ



Yes



No



Chemicals marked as EHS require an EHS **CAS Number**. A list of EHS chemicals and their CAS Numbers is available on the [EPA's List of Lists](#) ⓘ.

Mixture Components ⓘ

Tier2 Submit: What's new




Tier2 Submit- changes in new version (2022)

- Quick Guide popups once you start the program (only appear the first time)

Quick Guide



Step 1: Import last year's data or create a new facility

To get started, click "Import" to import last year's data, or click the "Add a New Facility" icon  to add a new facility record.

Enter the required data for the facility, its contacts, and its chemicals. Data is automatically saved as you enter it.

Quick Guide

Step 2: Correct validation errors and warnings

The red  and yellow  icons in the Facilities, Contacts, and Chemical Inventory list indicate errors and warnings. Click these icon to see the problems.

You must fix all errors before creating a submission file.

Tier2 Submit: Areas to watch



- **lat/long coordinates-** Too many facilities list incorrect lat/long, which we then need to go back and correct to provide an accurate view of facilities.
 - Long/lat is used when we run additional analysis of facilities including plume modeling
- **Contacts-** must list **two** different points of contact from your facility. Please provide a 24/7 number for both. Contacts should be **employees**, not the fire department, SERC, LEPC, or any other entity.
 - contact types should include at minimum: emergency contact and Tier II Info contact

Tier2 Submit: Areas to watch



Lat/long

Location where chemicals are present

Street * ⓘ
9300 Quincy Ave

City *
Cleveland

State *
OH ▼

Zip * ⓘ
44106

Country
USA

County *
Cuyahoga

Department


Fire

Emergency 24-Hour Phone Number

Latitude * ⓘ
[Red box with exclamation mark]

Longitude * ⓘ
[Red box with exclamation mark]


[Set latitude/longitude from address](#) or use the map ▶



Tier2 Submit: Areas to watch



Lat/long

**Set Latitude/Longitude From Address?**

Address searched:

- 9300 Quincy Ave, Cleveland, OH, 44106

Address found:

- 9300 Quincy Ave, Cleveland, Ohio, 44106
- Latitude: 41.492613, Longitude: -81.620270

Address search courtesy of [Esri](#)

Do you want to **update** to the **Latitude/Longitude** of the found address?

Update Latitude/Longitude

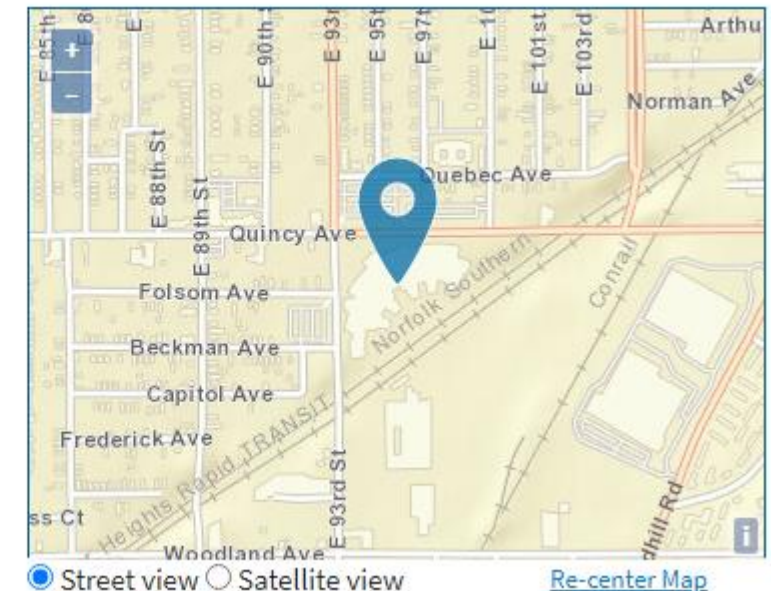
Cancel

Tier2 Submit: Areas to watch



Lat/long

Street * ⓘ 9300 Quincy Ave			City * Cleveland	
State * OH ▼	Zip * ⓘ 44106	Country USA	Latitude * ⓘ 41.492613	Longitude * ⓘ -81.620270
County * Cuyahoga ▼			Set latitude/longitude from address or use the map ►	
Department <input type="text"/>	Fire District <input type="text"/>	Emergency 24-Hour Phone Number <input type="text"/>		



Tier2 Submit: Areas to watch



Lat/long

- Big difference between

41.492867, -81.620386



9300 Quincy Ave, Cleveland, OH 44106

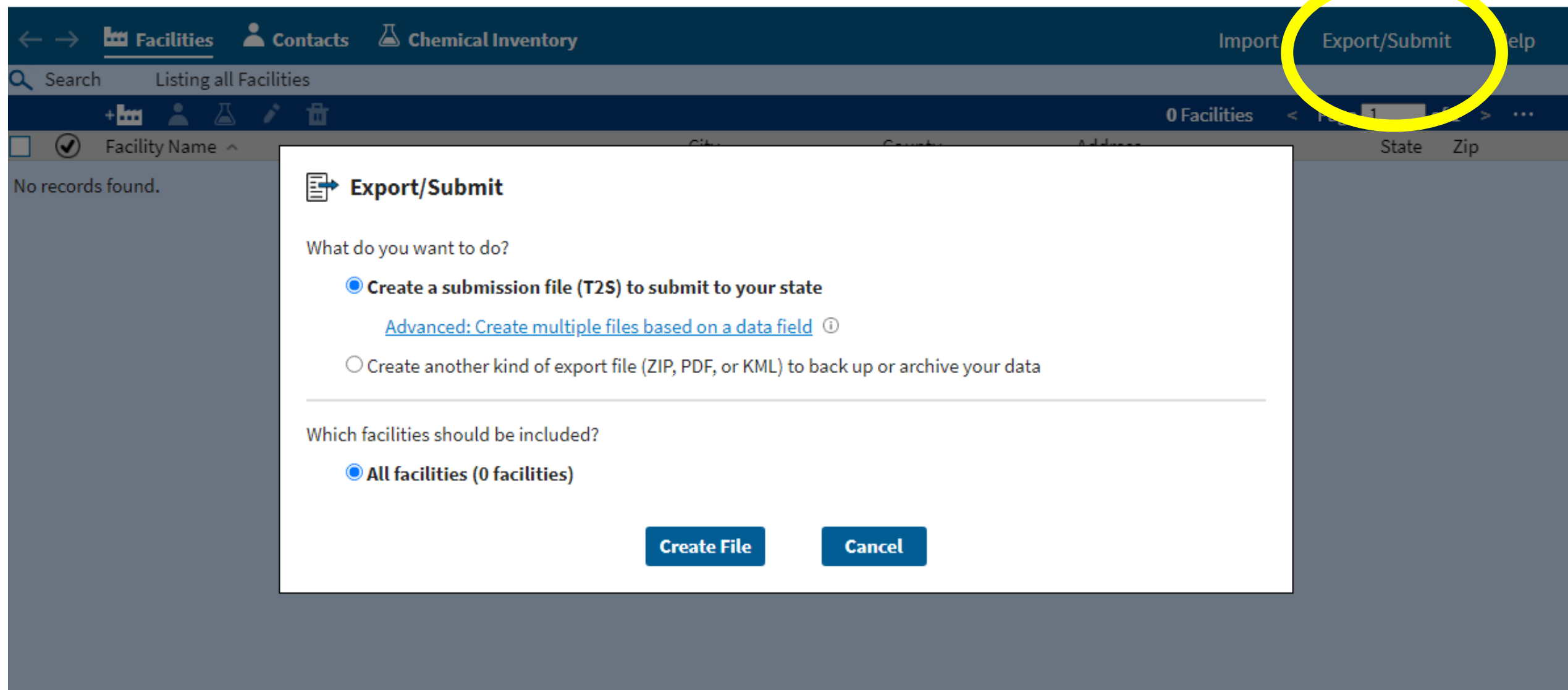
41.492867, 81.620386



Xinhe, Aksu, Xinjiang, China

Tier2 Submit: Submit your Report

Tier2 Submit 2022



The screenshot shows the Tier2 Submit 2022 web application interface. The top navigation bar includes links for Facilities, Contacts, Chemical Inventory, Import, Export/Submit, and Help. The 'Export/Submit' link is highlighted with a yellow circle. Below the navigation bar, there is a search bar and a table header for 'Listing all Facilities'. The table has columns for Facility Name, City, Country, Address, State, and Zip. The table is currently empty, displaying 'No records found.' A modal dialog box titled 'Export/Submit' is open in the center of the screen. The dialog asks 'What do you want to do?' and provides two options: 'Create a submission file (T2S) to submit to your state' (selected) and 'Create another kind of export file (ZIP, PDF, or KML) to back up or archive your data'. The first option has a link to 'Advanced: Create multiple files based on a data field'. Below this, the dialog asks 'Which facilities should be included?' and provides the option 'All facilities (0 facilities)'. At the bottom of the dialog are 'Create File' and 'Cancel' buttons.

Facilities Contacts Chemical Inventory Import **Export/Submit** Help

Search Listing all Facilities

+ Facilities 0 Facilities < 1 > ...

Facility Name City Country Address State Zip

No records found.

Export/Submit

What do you want to do?

- ☒ Create a submission file (T2S) to submit to your state
 - [Advanced: Create multiple files based on a data field](#) ⓘ
- ☐ Create another kind of export file (ZIP, PDF, or KML) to back up or archive your data

Which facilities should be included?

- ☒ All facilities (0 facilities)

Create File Cancel



← → **Facilities** **Contacts** **Chemical Inventory**

Search Listing all Facilities

+

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ^ Facility Name
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Test

Click to show validation errors

User must fix errors before proceeding with creating file

Search Listing all Facilities

+

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ^ Facility Name
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Test

This record is not valid for submission because: ×

The facility needs at least one chemical.

Click buttons to view/edit values. Hover icons for details.

Tier2 Submit: Submit your Report

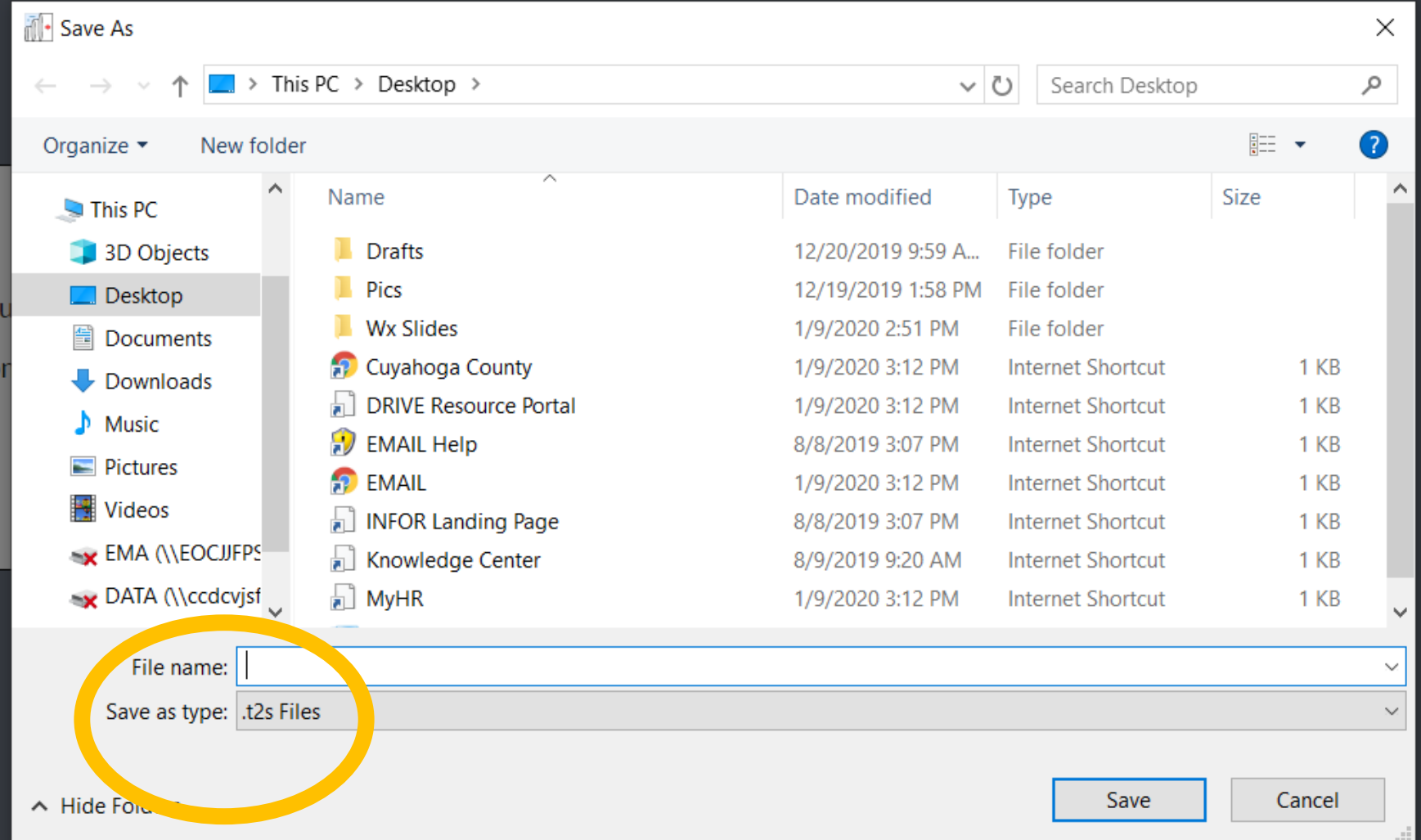


 **Submit**

You can create a submission but you

▲ The facility is valid for subr

Create Submission File



Annual Tier II Reports- how to submit



- 1) Send email with Tier2 Submit .zip or .t2s file and the certification statement to SERC@epa.ohio.gov
- 2) Send email with Tier2 Submit .zip or .t2s file to LEPC@cuyahogacounty.us.
(if you have locations in other counties, must send to those LEPCs as well. See the SERC Compliance Manual for contact info)
- 3) Send a paper report and site map to Local Jurisdictional Fire Department
 - paper copy can be generated from the Tier2 Submit

 **Save your .t2s file for next year! You can import the file and update year after year** 

Annual Tier II Reports- how to submit



SERC Certification Form

SERC Instructional Booklet, Inventory Forms, and Examples

- [Instructional Book for Industry](#) [PDF]
- [Extremely Hazardous Substances \(List\)](#) [PDF]
- [Facility Identification Form \(Blank\)](#) [WORD]
- [Facility Identification Form \(Blank\)](#) [PDF]
- [Inventory Form \(Blank\)](#) [WORD]
- [Inventory Form \(Blank\)](#) [PDF]
- [LEPC Information/Emergency Coordinators](#) [PDF]
- [Site Map Example](#) [PDF]
- [Where to Send](#) [PDF]
- [Release Reporting](#) [PDF]
- [Tier 2 Reporting Certification \(Blank\)](#) [Word]
- [Tier 2 Reporting Certification \(Blank\)](#) [PDF]

		Tier 2 Submit Calendar Year 2022 Certification	
<p>I hereby certify that I have reviewed the information submitted on the media enclosed and/or email attachment for the facility listed on this certification and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on the data available to the owners/operator of this facility.</p>			
Name _____		Title _____	
_____		/ /	
Signature _____		Date Signed _____	
Facility Name _____			
Address _____			
City _____		OH	Zip _____
County _____			
For multiple facility reports stored within flash drive or email attachment, please list additional county or counties			
_____		_____	
_____		_____	
_____		_____	
_____		_____	
_____		_____	


Found here: <https://epa.ohio.gov/divisions-and-offices/air-pollution-control/state-emergency-response-commission/serc-forms-instructions>

Tier2 Submit: Submit your Report

Search Listing all Facilities

1 selected Facility < Page 1 of 1

Facility Name	City	County	Address	State
Test				OH

 **Export/Submit**

What do you want to do?

- ☐ Create a submission file (T2S) to submit to your state
- ☒ Create another kind of export file (ZIP, PDF, or KML) to back up or archive your data
 - ☐ Create a ZIP file containing an XML file that adheres to the [national Tier II data standard](#) ⓘ
 - ☐ Create a ZIP file containing CSV files, which can be opened in a spreadsheet program, such as Excel
 - ☒ Create a PDF file
 - [Advanced: Order records by a data field](#) ⓘ
 - [Advanced: Create multiple files based on a data field](#) ⓘ
 - ☐ Create a KML file, which can be used to plot your facilities on a map

Which facilities should be included?

- ☒ All facilities (1 facility, plus associated chemicals and contacts)

Create File **Cancel**

Export/Submit

State Zip
OH 44106

What do you want to do?

☐ Create a new facility

☒ Create an existing facility

☐ Create a new facility

☐ Create a new facility

☐ Create a new facility

☒ Create a new facility

☐ Create a new facility

☐ Create a new facility

Which facilities do you want to export?

☒ All facilities

Save As

Network > ccdcvjsfps01 > home > jpodonnell > Redirected > Documents >

Organize

New folder

Desktop

Documents

Downloads

Music

Pictures

Videos

Windows (C:)

Home (H:)

EMA (\\EOCJJFPS01.ac)

DATA (\\ccdcvjsfps01)

Network

Name

Date modified

Type

Size

ArcGIS

4/1/2020 10:22 PM

File folder

ArcGIS Pro 2.8

10/4/2021 1:22 PM

File folder

Custom Office Templates

4/1/2020 10:22 PM

File folder

GroupWise

6/18/2014 11:48 AM

File folder

My Shapes

12/30/2015 12:44 PM

File folder

Outlook Files

12/9/2015 9:54 AM

File folder

Notification Matrix

10/6/2015 10:06 AM

Adobe Acrobat D...

215 KB

Tornado Drill Information2016

3/11/2016 3:13 PM

Adobe Acrobat D...

221 KB

File name:

Save as type: Adobe PDF

Export

Annual Tier II Reports- fees

Send Filing Fee plus detached invoice stub to:

(Due no later than March 31, 2023)

Ohio Environmental Protection Agency

P.O. Box 77005

Cleveland, OH 44194-7005

Check Payable to: Treasurer, State of Ohio

(Please include Revenue ID# on check)

****IMPORTANT: Change to Fee Payment Process****

The *Facility Annual Chemical Filing Fee Worksheet* has been redesigned to include an invoice stub. To ensure proper application of your payment, if you did not receive a pre-printed worksheet(s) for your reporting facility or facilities, email SERC@epa.ohio.gov with subject "INVOICE NEEDED" or call (614) 644-2260 so an invoice with the proper account information can be generated and sent to you. Please provide facility name(s) and address(es).

Please calculate your fee, write the total in the Amount Due area, and mail **ONLY** the detached invoice stub and check to the following **new address:**

OHIO EPA

P.O. BOX 77005

CLEVELAND, OH 44194-7005

The SERC revised the filing fee schedule (Sept. 4, 2001).

- Inventory Form **Filing Fee \$150**
- Inventory Form Filing Fee (Additional) **\$20 per hazardous substance** reported
- Inventory Form Filing Fee (Additional) **\$150 per EHS** reported
- Facility fee cap, **not to exceed \$2,500**
- Late fees received **after March 31**, shall be subject to **10% late fee charge**

All info in SERC Compliance Manual

Chemical Spill/Release Reporting



What is a “reportable” release?

Any release or spill of a regulated chemical* in amounts exceeding the Reportable Quantity that **leaves the facility property line** by land/waterway

*EHS Substances RQ – 40 CFR; Part 355; Appendix A & B

*CERCLA Hazardous Substances RQ – 40 CFR; Part 302; Table 302.4

*Oil (including but not limited to gasoline, petroleum, sludge, mixed oil, etc.)

- to navigable waterway: any amount causing a visible sheen on water
- to environment, excluding navigable water: 25+ gallons
- from oil/gas extraction site, excluding navigable waterway: 210+ gallons

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Methyl isothiocyanate	556-61-6	500	500		313		
2-Methylacetonitrile	75-86-5	1,000	10	10	313	P069	
Methyl mercaptan	74-93-1	500	100	100	313s	U153	10,000
Methylmercuric dicyanamide	502-39-6	500/10,000	500		313c		
Methyl methacrylate	80-62-6			1,000	313	U162	

Release Reporting: Notification



WITHIN 30 MINUTES (or as soon as practical), the spiller is required to verbally notify: :

- All Releases: Jurisdictional Fire Department, County LEPC, Ohio EPA
- For Gas/Oil regulated sites: Ohio Dept. of Natural Resources
- For CERCLA substances/Oil in navigable waters: National Response Center
- If spill has potential to reach sewer system: NEORSD

Notification information to provide

- Contact information for caller and facility
- Release location, source, time, and duration
- Chemical Name (if known)
- EHS or not
- Estimated quantity released
- Environment released to: air, land, and/or water
- Known or anticipated health risks associated
- Precautions taken, including evacuation or shelter-in-place

Contact Information

Cuyahoga County Spill Line: 216-771-1365
(24-hour spill line)

Local Fire Department: use 9-1-1 when emergency assistance is needed, non-emergency number for notification

Ohio EPA/SERC: 800-282-9378 or
614-224-0946

Ohio DNR: 1-844-OHCALL1- oil/gas wells

NRC: 800-424-8802- waterway

NEORSD: 216-641-6000 (business hours)
216-641-3200 (afterhours)

Release Reporting: Written Follow-up



A written follow-up notice is due **within 30 days** (ORC 3750.06) to LEPC & Ohio EPA, to include the following:

WHO: Facility overview information (address, contact info, name)

WHEN: Time, date, duration of discharge/discovery, actions taken to contain release, EPA spill number

LOCATION: Where release occurred including source, lat/long, mile marker for transportation incidents

PRODUCT RELEASED: Common/technical name and CAS #, quantity of discharge

MONITORING & DETECTION: How was release monitored/detected, was public warned?

MITIGATION AND CONTAINMENT: Amount of product/waste recovered or neutralized, and actions taken

PREVENTION: Plans to prevent future release occurring

HEALTH RISKS: Anticipated acute/chronic health risks due to exposure

CHRONOLOGY: Summary of events including communication with officials

DOCUMENTATION: Reports or other documents pertaining to incident (accident report, bills, analyses, etc.)

CAUSES: Describe circumstances leading to incident

ENVIRONMENTAL IMPACT: Environmental medium affected, size/area affected, damage to wildlife/vegetation, impact to human health & population prevention actions taken, medical advice

Release Reporting: Written Follow-up



Submit to: LEPC@cuyahogacounty.us &
sercspillreport@epa.ohio.gov

Release Reporting: Yearly Totals



- LEPC Spills Subcommittee (NEORSD, Ohio EPA, LEPC Spill Line) was notified of 52 spills in 2022
- Of those, 35 were reportable and required written follow-up reports
- Historical:
 - 2021-57 total, 41 reportable
 - 2020- 48 total, 24 reportable
 - 2019- 43 total, 25 reportable
 - 2018- 38 total, 19 reportable
 - 2017- 41 total, 28 reportable

Facility Hazard Analysis Profiles- example



LEPC contracted with a vendor to provide hazard analysis of Tier II facilities. Hazard analysis reports were generated for each EHS facility to highlight specific hazards in more detail along with a map of the worst-case model.

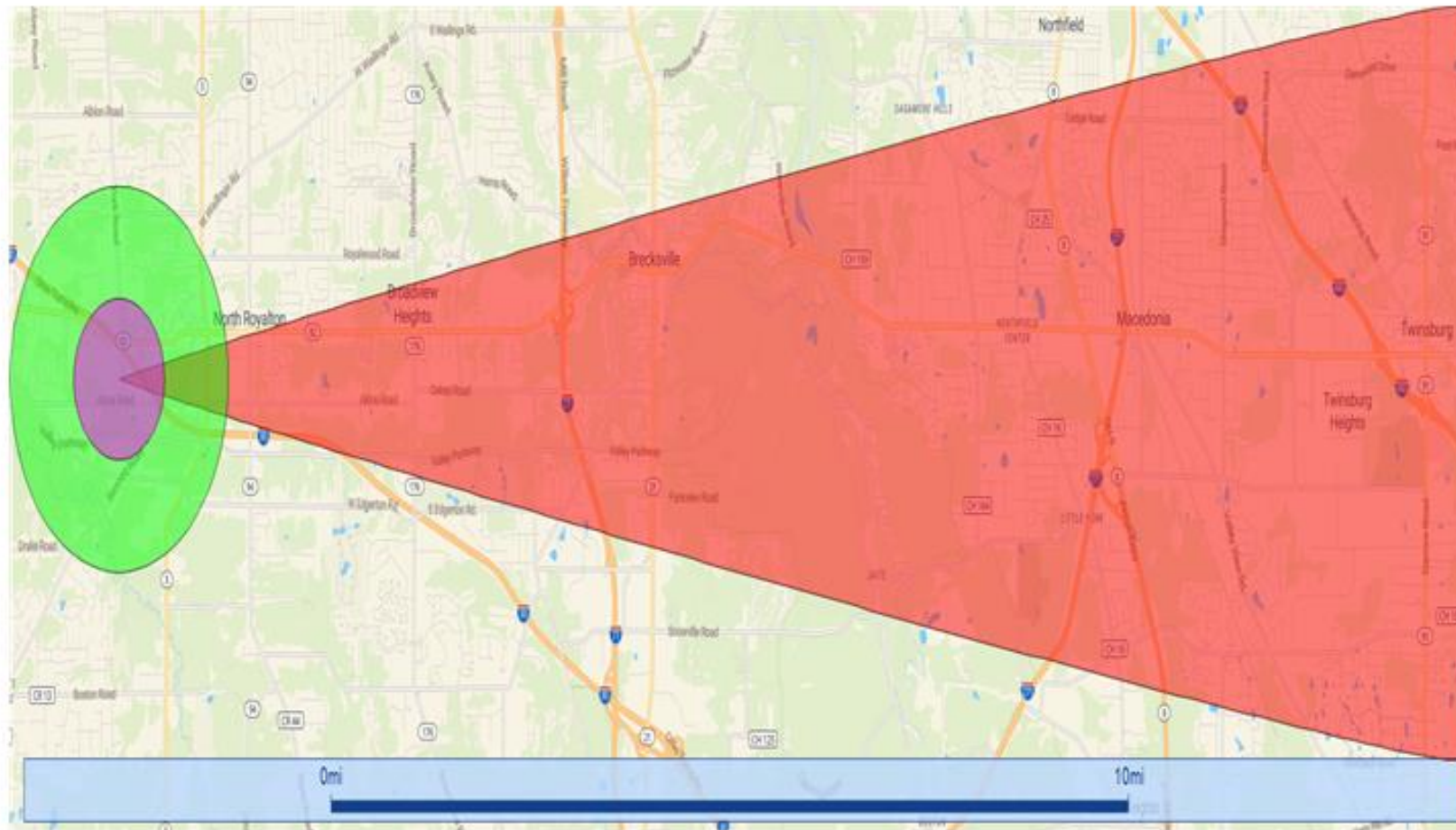
Each Hazard Analysis includes an overview of the facility, map visualizing the two worst-case hazards at the facility and roadways nearby that may be used for evacuation and transportation, and the initial isolation zone for the given chemical.

The system is web-based and can be accessed by all 4 county hazmat teams.

- Provides real-time weather
- can include other GIS layers (schools, hospitals, daycare, etc.)

Extremely Hazardous Substance(s)?	Yes	RMP Facility?	No
Max Occupants	46	EPCRA Section 302 Facility?	Yes
Manned?	Yes	Dikes/Safeguards?	No
Site Map?	Yes		

Facility Reported Hazards: Fire, Pressure, Acute & Chronic Health

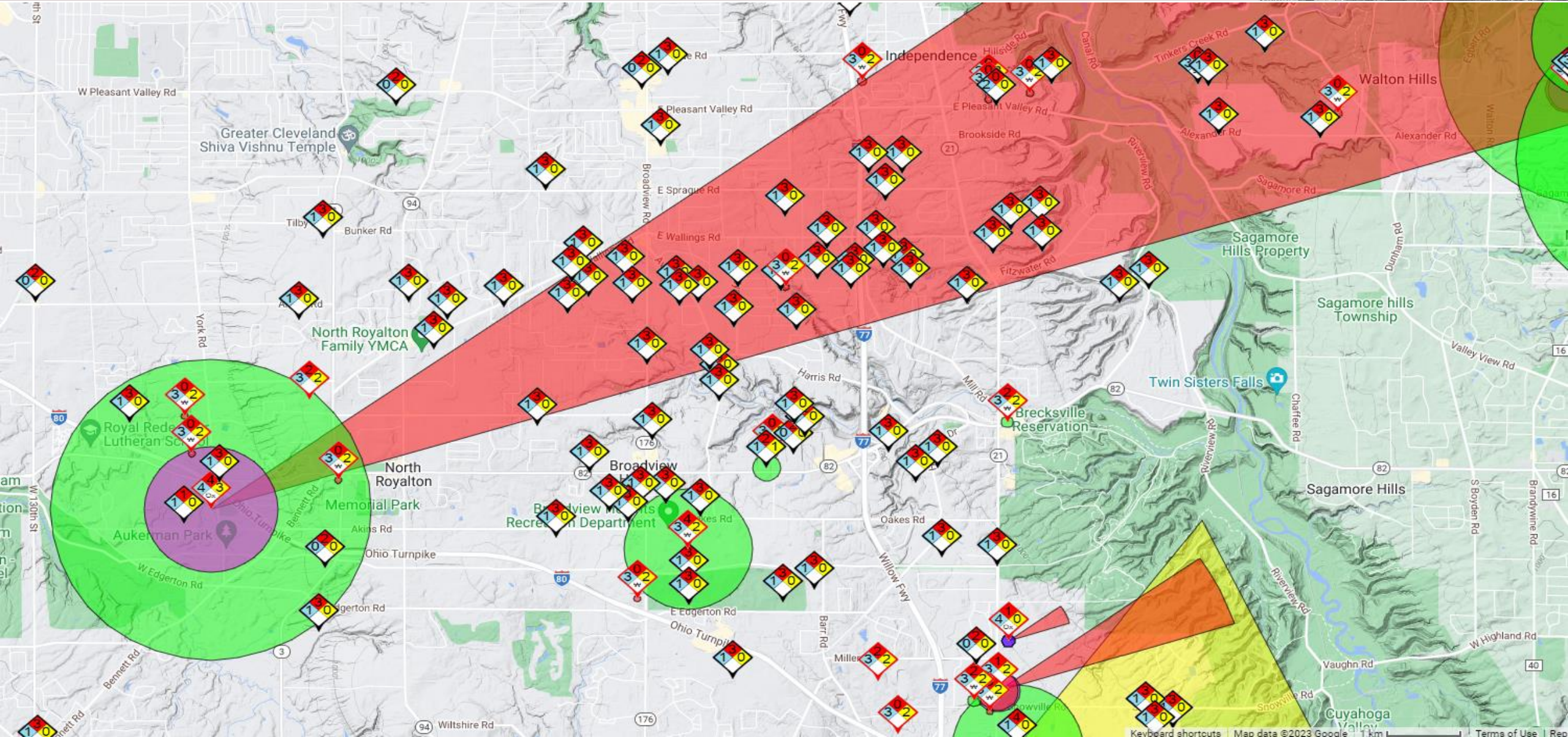


17.0 miles: *SULFUR DIOXIDE* [Toxic Cloud-AEGL-2 0.75 ppm (Plume (Puff))]

1.4 miles: *PROPANE* [Shrapnel/Others-Preferred Evacuation (ERG BLEVE)]

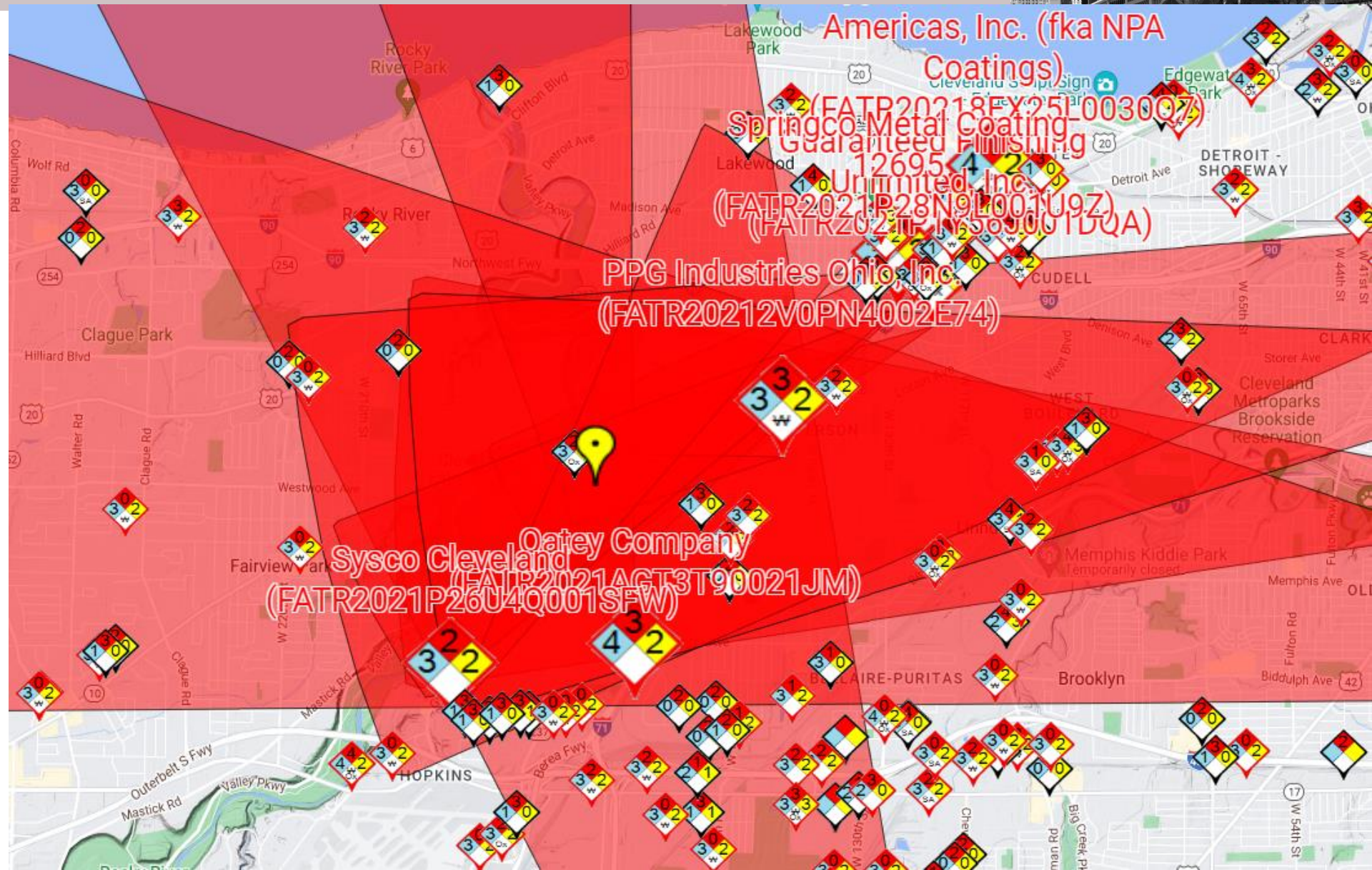
1000 yd: Largest Initial Isolation Zone

Facility Hazard Analysis Profile- example



Facility Hazard Analysis Profiles- example

Can select of point (yellow marker) on the map and see “influencing facilities.” This view shows any facility in the county that could potentially create a plume over this spot on the map. Some of these are not likely to happen due to the wind directions, but the potential is there.

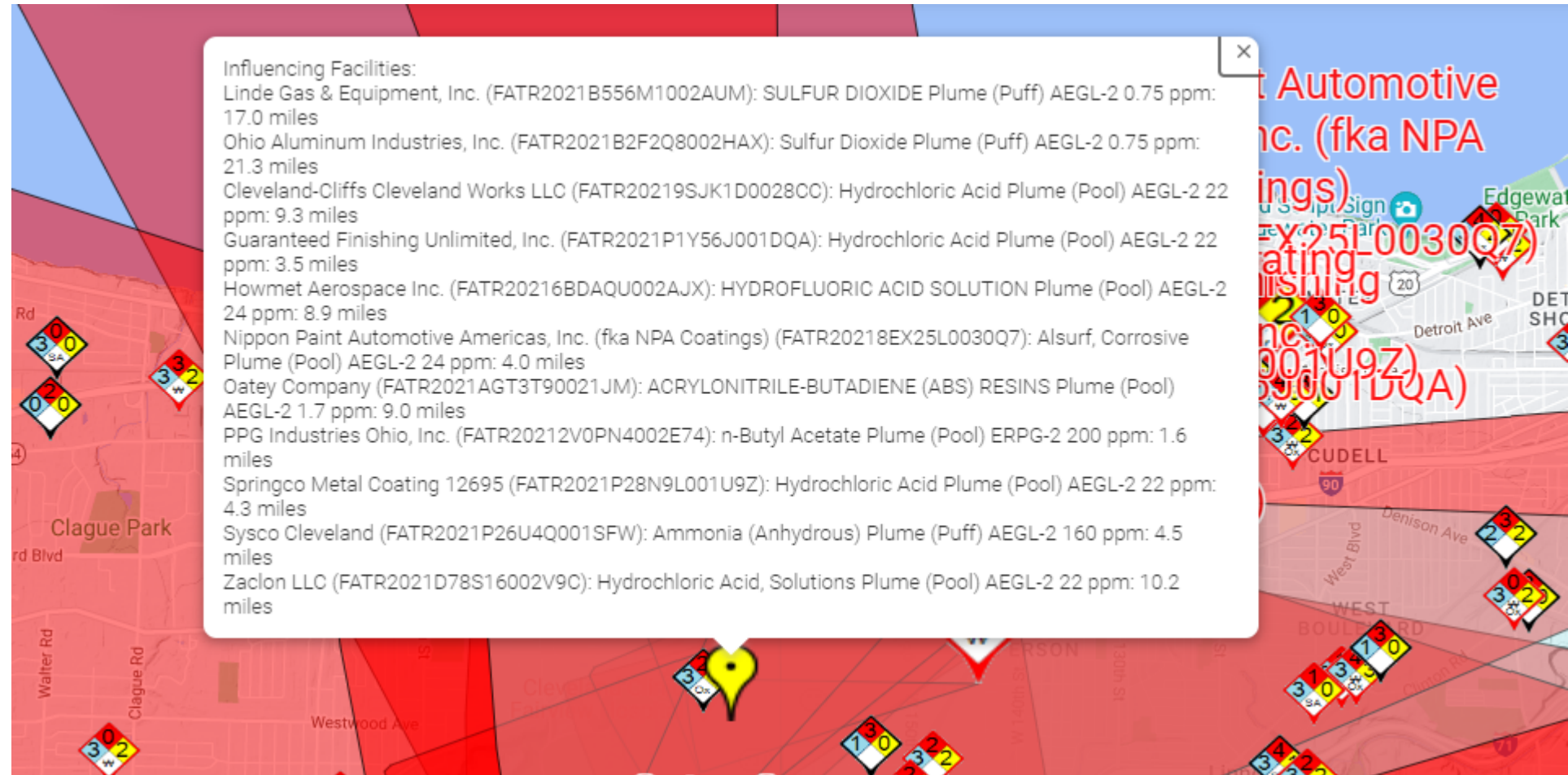


Facility Hazard Analysis Profiles- example



Shows the
“influencing
facilities and the
specific chemicals
and their potential
hazards

Web-based, can be
used by responders
on way to a scene



EHS Facility Site Visits



Cuyahoga County LEPC has grant funds to reimburse local fire departments that visit EHS facilities in their communities

The visits are more in-depth than a building inspection from your fire department

- Developed two forms to use:
 - Facility Hazard Analysis and Risk Assessment
 - Chemical Hazard Analysis

Extremely Hazardous Substance (EHS) Facility Hazard Analysis & Risk Assessment

I. FACILITY INFORMATION

1. Name: _____

2. Street Address: _____

3. Type of Facility (SIC Code): _____

4. Emergency Coordinator and Alternate Contact Info:

a. Coordinator Name: _____ Work Phone: _____ 24/7 Phone: _____

b. Alternate Name: _____ Work Phone: _____ 24/7 Phone: _____

5. Person completing interview: Name: _____ Department: _____

Phone #: _____ Email: _____

6. Date of Site Visit: _____

II. GENERAL

A. Describe the area within a mile of your facility (Check all that apply):

Residential		Agricultural	
Commercial		Special Use/Institutional	
Industrial		Open Space	
Other			

B. Are any of the following within half a mile of your facility? (check all that apply)

Hospitals		Nursing Homes	
Schools		Jails/Detention Centers	
Daycare		Other (please explain)	
None			

C. What is the distance between the closest residence and your facility property line (in feet)? _____

D. Surface drainage goes to:

1. Storm Sewer to Stream _____

2. Sewage Treatment Plant _____

3. Name of Waterway _____

4. Other _____ Explain _____

EHS Chemical Hazard Analysis and Risk Assessment

Facility Address: _____ City: _____ State: _____ Zip: _____ Date of Site Visit: _____

1. Extremely Hazardous Substance (EHS) _____

2. CAS # _____

3. What type of container is the EHS stored in? (Place an X in all that apply)

plastic/glass bottle		battery	
5gal container		bag	
30 gal drum		cylinder	
55gal drum		150lb cylinder	
carboy		400lb cylinder	
		2000lb cylinder	

4. How is the EHS handled? (Place an X in all that apply)

processed		inside tank	
		outside tank	
		inside vat	
		rail tanker	
		ship	
		Other (specify)	

5. What is the frequency of shipments? (check one)

daily		weekly	
monthly		irregular	

6. What are the average quantities of shipments? (check one)

gallons		stored	

7. What type of carrier(s) is used for shipments? (Place an X in all that apply)

commercial carrier		drums	
oil car		company carrier	
		pipelines	
		other (specify)	

8. What loading system(s) is used for this EHS? (Place an X in all that apply)

loading		mechanical	
		manual	

9. What monitoring procedures are used for this EHS? (Place an X in all that apply)

valves		tank gauges	
		alarms	
		preventative maintenance	

10. Additional page if needed: _____

Signature: _____ Title: _____ Facility Representative

Signature: _____ Rank/Title: _____ Fire Department Representative

EHS Facility Site Visits



The purpose of the **Facility** Hazard Analysis and Risk Assessment Form is to gather additional information regarding the facility itself.

Covers six sections:

1. **Facility Information**- address, emergency coordinators, contact info
2. **General Facility Info**- description of location (commercial, residential, industrial, etc.), special populations nearby (school, hospital, day care, etc.), type of drainage
3. **Notification Procedures and Communication Systems**- does the facility work with local FD to coordinate response plans/notifications/lock box; facility procedures for notifying surrounding neighborhood; identify PIO, trainer, mutual aid agreements
4. **Emergency Equipment and Facility Resources**- monitoring equipment, staff PPE, fire suppression equipment
5. **Spill Prevention and Control**- spill containment systems, how is waste/storm/hazardous water handled
6. **Contingency or Emergency Plans**- facility safety plan, evacuation plans, notifications to make, response capabilities

EHS Facility Site Visits



The purpose of the EHS **Chemical** Hazard Analysis and Risk Assessment Form is to gather additional information regarding *each* EHS chemicals on site.

Information includes:

1. **Type of storage container**
2. **How EHS is handled on site:** utilized, produced, stored
3. **Frequency of shipments**
4. **Average shipment quantity**
5. **Type of shipment carrier:** truck, rail, pipeline
6. **Unloading system:** pumping, gravity, mechanical, manual
7. **Unloading monitoring procedures:** gauges, cut-off valves, alarms, personnel monitoring, etc.



EHS Facility Site Visits



Takeaways:

- **Proactive** steps taken by the facility and fire dept. to show initiative, cooperation, & foster positive relationships
- Allowed FD to see what chemicals are on the location, where they are within the facility, what kind of suppression systems are in place, & make informed planning decisions
- **Fostered communication** between all 3 parties & enhanced understanding of roles between:
 - Facility personnel
 - LEPC
 - Local responders
- LEPC to **provide analysis** of our findings to the facility
 - Suggestions
 - Best practices
 - Exercise Materials
- Can review chemical reactivity determined by relative locations via CAMEO Chemicals

EHS Facility Site Visits



- The program has been marketed to *all fire departments* in Cuyahoga County. We will continually offer the program in hope more departments are interested!
 - Have also had facilities reach out and invite us to visit

If you are an EHS facility & would be interested in having your local FD and LEPC out for a visit- please let us know!
We can reach out to FD to set up a visit.



Resource: ReadyEx



The Cuyahoga County Office of Emergency Management, in conjunction with the LEPC, recently rolled out the newest version of our ReadyEx program for chemical facilities.

- ReadyEx is a free Tabletop Exercise Toolkit that includes training materials to help plan and conduct a tabletop exercise
- Materials include scenario, user guide, meeting agendas, after-action report template, facilitator guide, and everything else needed to conduct your exercise.
- If you are interested in learning more about the program, contact us at LEPC@cuyahogacounty.us.

READY*EX*
CUYAHOGA COUNTY

Resource: SERC Facility Reporting Compliance Manual



- Produced by the Ohio State Emergency Response Commission (SERC) every year.
- [https://epa.ohio.gov/static/Portals/27/serc/SERC Manual.pdf](https://epa.ohio.gov/static/Portals/27/serc/SERC_Manual.pdf)
 - Background, why reporting is required
 - General instructions- who must report, what must be reported, exemptions, calculations of amounts, etc.
 - Release Reporting instructions
 - LEPC contact info
 - List of EHS



Emergency Planning and Community Right-to-Know



Facility Reporting Compliance Manual
Ohio Revised Code Chapter 3750

State Emergency Response Commission
<https://epa.ohio.gov/serc>

January 2023

Resource: CAMEO Chemicals



Free to download: <https://www.epa.gov/cameo> or can be used directly from <https://cameochemicals.noaa.gov/>.

- Also available on Apple's AppStore and GooglePlay for phones or tablets.

CAMEO Chemicals

Home
Help

Search Chemicals
New Search

MyChemicals
chemicals: 0
View MyChemicals
Predict Reactivity

Database of Hazardous Materials

Search
Find response information for thousands of hazardous materials, including fire and explosion hazards, health hazards, firefighting techniques, cleanup procedures, protective clothing, and chemical properties.

MyChemicals
Build a list of chemicals. For example, substances involved in an incident response (such as a train derailment) or chemicals stored in your community.

Reactivity
See what hazards might occur if chemicals in your MyChemicals collection are mixed together.

Get started by finding a substance of interest with a [search](#).
Learn more by checking the [help](#) for background information, a glossary of terms, and guidance on using this database.

Enter a chemical name or identification number to begin searching for datasheets.

[How does this search work?](#) ▶

Name *(not case sensitive)*

Search Name

CAS Number *(with or without dashes)*

Search CAS Number

UN/NA Number *(4-digit number)*

Search UN/NA Number

Other ways to find chemicals

[Advanced Search](#)

[Browse](#)

CAMEO Chemicals version 2.7

Resource: CAMEO Chemicals



64 datasheets matched all search criteria

Name contains **sulfuric acid** matched 64 datasheets

Name contains **sulfuric** matched [68 datasheets](#)

Name contains **acid** matched [1468 datasheets](#)

1 - 20 of 64 results < Prev Next > Page 1 of 4 Go to page: Go

SULFURIC ACID

Sulfuric acid is a colorless oily liquid. It is soluble in water with release of heat. It is co...

DOT Hazard Label: Corrosive **AEGL-3 (60 min):** 160 mg/m3

CAS Number: 7664-93-9

UN/NA Number: 1830

This chemical is also known as:

- **SULFURIC ACID**
- SPENT **SULFURIC ACID**
- **SULFURIC ACID** (AEROSOL FORMS ONLY)
- **SULFURIC ACID** (AQUEOUS)
- **SULFURIC ACID**, WITH MORE THAN 51% **ACID**

[View Datasheet](#)

[Add to MyChemicals](#)

Contains information on:

- Chemical identifiers
- Hazards
- Response Recommendations
- Physical Properties
- Regulatory Information
- Alternate Chemical Names

Resource: CAMEO Chemicals



Search Chemicals

[New Search](#)

[Modify Search](#)

[Search Results](#)

MyChemicals

chemicals: 3

Added chemical

[View MyChemicals](#)

[Predict Reactivity](#)

CAMEO *Chemicals*

MyChemicals

MyChemicals Collection

1. [SULFURIC ACID](#)
2. [FUEL OIL, \[DIESEL\]](#)
3. [WATER](#)

[Add Water](#)

[Add Reactive Group](#)

[Sort Alphabetically](#)

Resource: CAMEO Chemicals

Chemical Reactivity

[What is chemical reactivity and how is it predicted?](#) ▶

Search Chemicals

[New Search](#)

[Modify Search](#)

[Search Results](#)

MyChemicals

chemicals: 3

[Added chemical](#)

[View MyChemicals](#)

[Predict Reactivity](#)



Compatibility Chart

This chart provides an overview of the reactivity predictions. For more details, click on a cell or scroll down the page.

[How do I read this chart?](#) ▶

	SULFURIC ACID	
FUEL OIL, [DIESEL]	Incompatible ■ Generates gas Generates heat Toxic	FUEL OIL, [DIESEL]
WATER	Caution ■ Corrosive Generates gas Generates heat Toxic	Compatible ■

⚠ Summary of Hazard Predictions (for all pairs of substances)

- **Corrosive:** Reaction products may be corrosive
- **Generates gas:** Reaction liberates gaseous products and may cause pressurization
- **Generates heat:** Exothermic reaction at ambient temperatures (releases heat)
- **Toxic:** Reaction products may be toxic

⚠ Summary of Gas Predictions (for all pairs of substances)

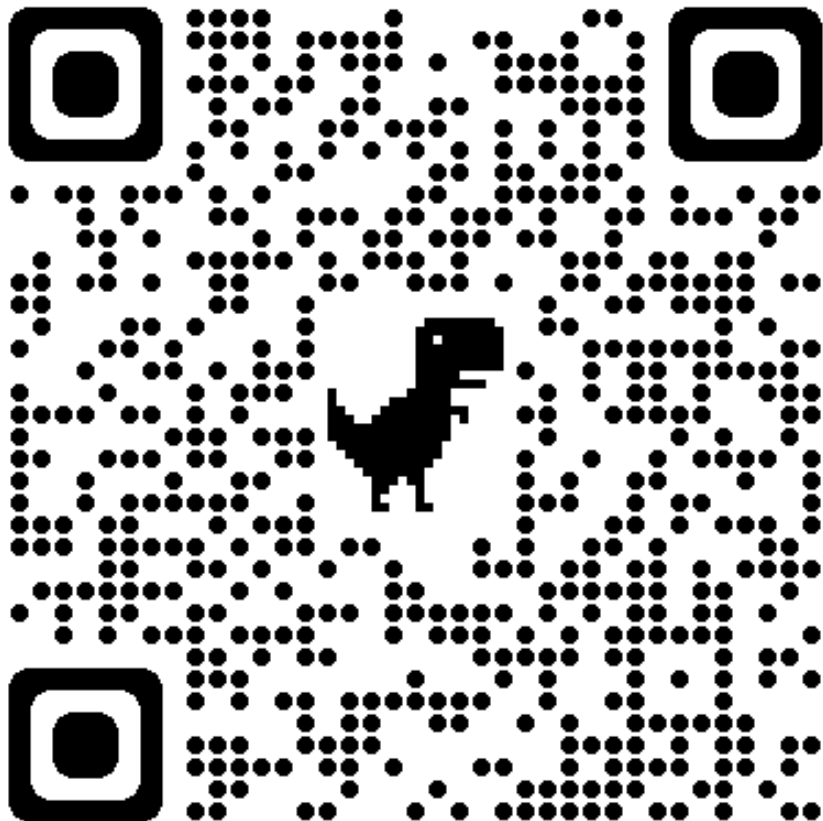
May produce the following gases:

- Acid Fumes
- Carbon Monoxide (CO)
- Carbon Dioxide (CO₂)
- Hydrogen Halide (HX)
- Nitrogen Oxides (NO_x)

Take our Survey



The Cuyahoga County LEPC Facility Subcommittee developed a short survey for EPCRA facilities. The Facility Subcommittee would like to work collaboratively with you to better communicate, share, and practice emergency response activities between facilities and emergency responders. We appreciate your response to this short survey!



<https://www.surveymonkey.com/r/37BDRXW>

Contact Us



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LEPC/Hazmat Info: 216-443-7597
Email: LEPC@cuyahogacounty.us
www.LEPC.cuyahogacounty.us

Ohio Facility Compliance Manual can be found at: <http://epa.ohio.gov/dapc/serc/invforms.aspx>