

WELCOME TO HAPS REPORTING FOR THE 2020 NEI TRAINING!

The webinar will begin in a few minutes...

- Please keep your video and audio off for the duration of the presentation.
- If using a phone, please use the "local" number
- If you have any questions, please send them to the host via the chat box
- There will be a Q&A session at the end of the presentation
- Use *9 to raise your hand via the phone line
- This presentation will be recorded and posted online. More info covered on Resources slide.



ENVIRONMENTAL PROTECTION DIVISION

HAPs Reporting in CAERS for the 2020 NEI

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2020 EI Point Source Emission HAPs Reporting Training Webinar April 20, 2021



- What is CAERS?
- Emission Inventory Regulatory Basis
- Reporting HAPs in CAERS
- CAERS EI HAPs Reporting Walkthrough
- Upcoming Events (Training Opportunities, Resources)



WHAT IS CAERS?

CAERS (Combined Air Emissions Reporting System) is an application that allows industry from subscribed State, Local, or Tribal authorities (or SLTs) to report their air emissions.

This allows:

- SLTs to meet specific air emissions reporting requirements
- Annual or triennial reporting to meet the requirements of the Air Emissions Reporting Requirements (AERR) rule
- Facilities to report Hazardous Air Pollutants (HAPs) emissions at the process level which is sent to the TRI-MEweb to pre-populate air emissions.
 - Starting this year, GA EPD is encouraging facilities to voluntarily submit HAP emissions to CAERS. In the future, this may be required.
 - TRI data must still be completed and certified in TRI-MEweb



EI REGULATORY BASIS

- Regulations requiring GA EPD to collect an Emissions Inventory
 - **Federal**: 40 CFR Part 51 Air Emissions Reporting Requirements (AERR)
 - **State**: Georgia Rule 391-3-1-.02(6)(b)(1)
- HAPs emission reporting is not required under the federal AERR rule or state regulations
- CAERS allows GA facilities to voluntarily submit HAPs emissions at the process level

States are required to annually report <u>actual</u> point source emissions data to EPA by <u>December 31st</u>. GA EPD requires participating facilities to report data by <u>June 30th</u>.



2020 NEI APPLICABILITY

All Part 70 Major Sources are subject.

Exceptions include:

- Permitted but not constructed
- Federally Enforceable Permit Limit (e.g., Synthetic Minor or Major HAP sources)
- Shutdown during the entire calendar year

2020 is a Triennial Year

- Triennial thresholds are lower than Annual Year thresholds
- Thresholds are PTE-based, except Pb (actual)

Triennial Year PTE Thresholds			
Pollutant	(tons per year)		
SO_2	≥ 100		
VOC	≥ 100		
NOx	≥ 100		
CO	≥ 1000		
Pb	≥ 0.5 (actual)		
Primary PM ₁₀	≥ 100		
Primary PM _{2.5}	≥ 100		
NH ₃	≥ 100		



EI HAPS REPORTING WALKTHROUGH



2020 EI COLLECTION FLOW

1. Opt-in/Opt-out of 2020 EI via the Georgia Environmental Connections Online (GECO) Program

• Applicability is based on potential emissions; reporting is based on actual emissions.

2. Beginning March 8, opt-in facilities can work in CDX CAERS for the 2020 NEI

- New Users must register in CDX
- Existing users can update any information if needed
- Add CAERS under CDX
- Request access to your facilities
- Reviewers (GA EPD) grants access
- Work on CAPs and HAPs emissions submittal
- Reviewers (GA EPD) QA 2020 EI data

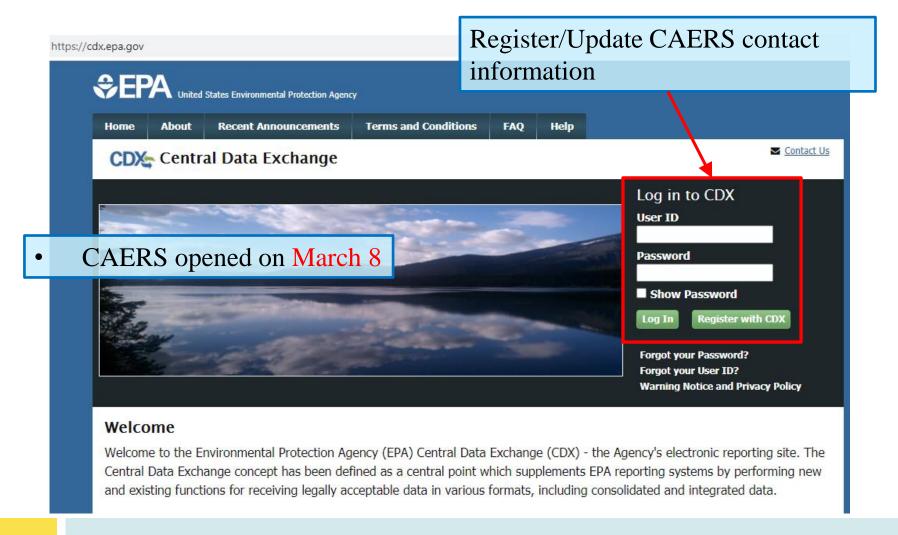


REPORTING HAPS IN CAERS

- Report HAPs emissions with CAPs emissions at the process level
 - Note: Not all HAPs available in TRI-MEWEB are available in NEI.
- Data in the CAERS database must be certified to be used in TRI-MEwer
- When in TRI-MEWEB:
 - A green icon will appear titled "NEI data available"
 - Click on the green icon to show NEI widget
 - If you select "Yes, copy my CY [year] NEI emission data into Section 5.1 and 5.2", the HAPs emissions will be copied into the TRI form R.
 - If facility decides to not transfer the HAPs data shown in the pop-up, your comment will be collected.



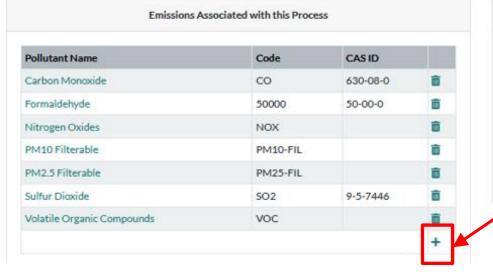
LINK TO CDX LOG IN

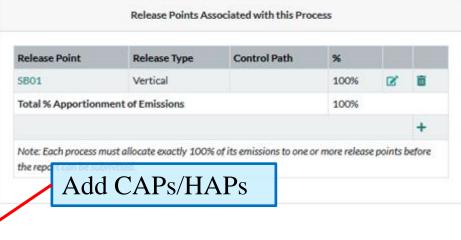




CAERS – HAPS AND CAPS EMISSIONS









CAERS – ENTER HAPS EMISSIONS

Emission Information						
Pollutant:	Formaldehyde - 50000 - 50-00-0	Pollutant Code:	50000			
Pollutant Name:	Formaldehyde	② CAS ID:	50-00-0			
? Calculation Method:	Site-Specific Emission Factor (no Control Effic	ciency used)	~			
@ Emission Factor:	.045	@ Emission Factor Description:	Site Emissions factor			
			.:.			
@ Emission Factor Numerator UoM:	LB	@ Emission Factor Denominator UoM:	E3GAL V			
Overall Control %:	0					
7 Total Emissions:	.00405	@ Emissions UoM:	TON			
		☑ I prefer t	o calculate the total emissions of this pollutant.			
Description of Calculation:	EE * annual throughput = emissions					
			.il			



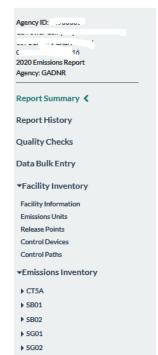
CAERS – BULK UPLOAD TEMPLATE

Field	Reporting Period*	Pollutant Name*	I prefer to calculate this emission myself	Total Emissions* Emissions Unit of Measure* Overall Control %
example entry	ML05-1-Annual	Acetaldehyde	false	1000 TON
	SCR-1-Annual	Benzene	false	1007.75 TON
	SCR-2-Annual	Nitrogen Oxides	true	2015.6 TON
	CT5A-1-Annual	Carbon Monoxide	▼)e	0.0059 TON
	CT5A-1-Annual	Nitrogen Oxides	true	4.545 TON
	CT5A-1-Annual	PM10 Primary (Filt + Cond)	false	Enter HAPs emissions
	CT5A-1-Annual	PM2.5 Primary (Filt + Cond)	false	Litter Tital's chinssions
	CT5A-1-Annual	Sulfur Dioxide	false	1.894 TON
	CT5A-1-Annual	Volatile Organic Compounds	false	0.0007 TON
	SB01 1 Annual	Carbon Monoxide	false	0.4514 TON
	SB01-1-Annual	Formaldehyde	true	0.00405 TON
	SP01-1-Annual	Nitrogen Oxides	falso	2 167 TON
	SB01-1-Annual	PM10 Filterable	false	0.0903 TON
	SB01-1-Annual	PM2.5 Filterable	false	0.0217 TON
	SB01-1-Annual	Sulfur Dioxide	false	0.0192 TON
	SB01-1-Annual	Volatile Organic Compounds	false	0.0181 TON
	SB02-1-Annual	Carbon Monoxide	false	0.3621 TON
	SB02-1-Annual	Nitrogen Oxides	false	1.738 TON



CAERS – FACILITY EXAMPLE

Report Facility & Emissions Information



Report Summary							
Pollutant	Туре	Fugitive Amount	Stack Amount	Units of Measure	2020 Reported Emissions	Previous Year Reported Emissions	Previous Submittal Year
Ammonia	CAP	0	3.4959	Tons	3.4959	3.4959	2019
Carbon Monoxide	CAP	0.00295	312.33675	Tons	312.3397	312.3397	2019
Formaldehyde	HAP	0	0.00405	Tons	0.00405	None Reported	
Lead	CAP	0	0.0289	Tons	0.0289	0.0289	2019
Nitrogen Oxides	CAP	2.2725	1599.7075	Tons	1601.98	1601.98	2019
PM Condensible	CAP	0	81.823	Tons	81.823	81.823	2019
PM10 Filterable	CAP	0	0.4908	Tons	0.4908	0.4908	2019
PM10 Primary (Filt + Cond)	CAP	0.01075	118.52075	Tons	118.5315	118.5315	2019
PM2.5 Filterable	CAP	0	0.1179	Tons	0.1179	0.1179	2019
PM2.5 Primary (Filt + Cond)	CAP	0.01075	108.18675	Tons	108.1975	108.1975	2019
Sulfur Dioxide	CAP	0.947	2133.0816	Tons	2134.0286	2134.0286	2019
Volatile Organic Compounds	CAP	0.00035	37.28555	Tons	37.2859	37.2859	2019
Total Emissions (Tons)					4398.32375	4398.3197	

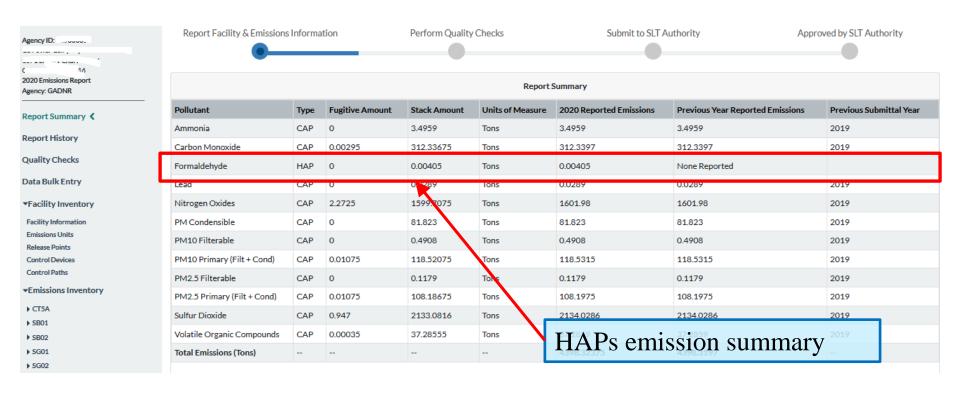
Perform Quality Checks

Submit to SLT Authority

Approved by SLT Authority



CAERS – SUMMARY PAGE





TRI-MEWEB: FORM R, SECTION 5 SCREEN

A commence of the commence of			2-0-44 (P-25)	
My TRI Facility Management - Forms - Submission History Help			Į.	Tutorials • Preferences Preferences
Part I ✓ 3/4: Activities and Uses/Max On-site 5: On-site Releases ✓ 6: O	#-site Transfers 7: On-site Waste Management 8	Waste Management ✓ 9: Misc. Information		
On-site Releases and Disposal Form R, Part II, Section 5 Need Reporting Help?				RY TEXPAR BAINBRIDGE TERMINAL - 31717TXPRN2 1,2.4-Trimethylbenze
lover your cursor over the 🔞 icon for more information. Enter data using detailed worksheet.				
Form Section	Not Applicable	Total Quantity (lbs) 🚱	Numeric Basis 🕡	Basis of Estimate (2)
Air Releases				
Section 5.1: Fugitive or Non-Point Air Emissions 🚱		or Select a Range Code =		Select a Basis of Estim +
Section 5.2: Stack or Point Air Emissions 🕡	0	or Select a Range Code +		Select a Basis of Estim +
and Releases				
Section 5.4.1: On-site Underground Injection: Class I Wells 🚱	0	or Select a Range Code +		Select a Basis of Estim +
Section 5.4.2: On-site Underground Injection: Class II-V Wells 🔞	0	or Select a Range Code +		Select a Basis of Estim +
ection 5.5.1A: On-site Landfills: RCRA Subtitle C 🕜	0	or Select a Range Code +		Select a Basis of Estim
Section 5.5.18 On-site Landfills. Other	0	or Select a Range Code +		Select a Basis of Estim +
Section 5.5.2: On-site Land Treatment and Application Farming 🔞	0	or Select a Range Code +		Select a Basis of Estim +
Section 5.5.3A. On-site Surface Impoundments: RCRA Subtitle C 🕡	0	or Select a Range Code -		Select a Basis of Estim +
section 5.5.3B. On-site Surface Impoundments: Other 🕜	0	or Select a Range Code +		Select a Basis of Estim +
Section 5.5.4: Other On-Site Disposal	0	or Select a Range Code +		Select a Basis of Estim +
A facility that manages waste rock piles may elect to indicate that at least some of the quantiti				

	Prev (Activities and Uses) Save Next (Water Bodies)	Check for Errors
Version: 2019.0.11	EPA Home MyCDX TRI Program Home TRI Program Contacts	

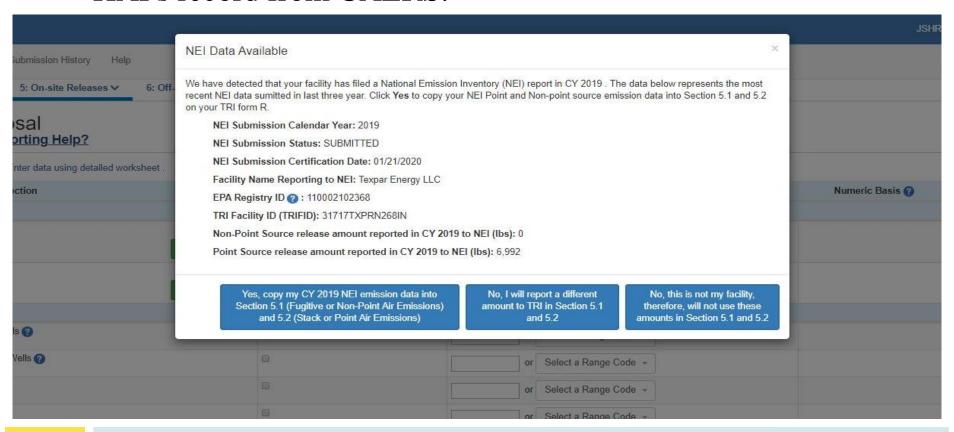


CAERS submission must be certified first to be used in TRI-MEweb

● TRI-ME was			JSHRE	STHA - CERTIFIER - jonesh shrestha@ogi.com (Log.out)
My TRI Facility Management - Forms - Submission History Help	_		L	Tutorials 🕶 🤹 Preferences 🍎 Help Chat 🤻
Part I ∨ 3/4: Activities and Uses/Max On-site 5: On-site Releases ∨ 6: Off-site Train	nsfers V 7: On-site Waste Management	t 8: Waste Management > 9: Misc. Information		
On-site Releases and Disposal Form R, Part II, Section 5	C	lials on aroon button		RY 2019 TEXPAR BAINBRIDGE TERMINAL - 31717TXPRN268IN Ammonite
Hover your cursor over the 👩 icon for more information. Enter data using detailed worksheet .		lick on green button.		
Form Section	□ Not pplicable 🚱	Total Quantity (lbs) 🕖	Numeric Basis ()	Basis of Estimate ()
Air Releases				
Section 5.1: Fugitive or Non-Point Air Emissions ()	t atrialable	or Select a Range Cede +		Select a Basis of Estim
Section 5.2: Stack or Point Air Emissions Next data	a avadable	or Select a Range Code +		Select a Basis of Estim +
Land Releases				
Section 5.4.1. On-site Underground Injection: Class I Wells ()		or Select a Range Code +		Select a Basis of Estim +
Section 5.4.2. On-site Underground Injection. Class II-V Wells 🗿	0	or Select a Range Code +		Select a Basis of Estim +
Section 5.5.1A. On-site Landfills: RCRA Subtitle C 🔞	9	or Select a Range Code +		Select a Basis of Estim +
Section 5.5.1B: On-site Landfills: Other 🕡	a .	or Select a Range Code +		Select a Basis of Estim
Section 5.5.2: On-site Land Treatment and Application Farming @		or Select a Range Code +		Select a Basis of Estim
Section 5.5.3A: On-site Surface Impoundments: RCRA Subtitle C 🔞		or Select a Range Code +		Select a Basis of Estim
Saction 5.5.38: On-site Surface Impoundments: Other 🚱	0	or Select a Range Code +		Select a Basis of Estim +
Saction 5.5.4: Other On-Site Disposal	a	or Select a Range Code +		Select a Basis of Estim
A facility that manages waste rock piles may elect to indicate that at least some of the quantities entered. Select the checkbox if you would like to indicate that quantities reported in Section 5.5 were managed.		rock piles.		

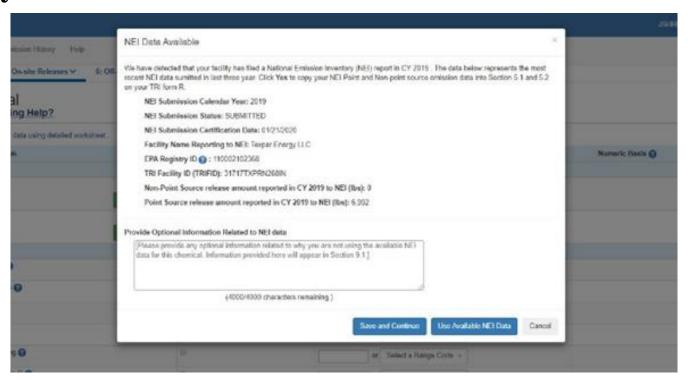


Next, this pop-up will appear, displaying the most recent HAPs record from CAERS.





If you decide not to use the CAERS data, a comment box will appear so that you can provide a rationale for why NEI data were not used.





If you choose to use HAPs data from CAERS, the next steps include:

- Copy HAPs data into TRI Form R, Section 5
- If all HAPs not included in CAERS, include in Form R
- Complete Form R
- Data validation
- Certify data to complete TRI reporting requirement.



UPCOMING EVENTS



UPCOMING EVENTS

- CDX/CAERS has been open for applicable facilities to submit their 2020 EI since March 8
 - Georgia EPD is currently reviewing EI data as facilities submit
 - Facilities EI deadline is June 30, 2021
- Live Virtual Help Sessions (April June)
 - Email sign-up will be offered



LIVE VIRTUAL HELP SESSIONS

Attendance Requirements:

- Send questions to emissions.inventory@dnr.ga.gov with a screen shot of your problem
 - We will try to address by email first
 - If not resolved by email, we will provide a live help session time slot

Help Session Times

- Every other Tuesday & Thursday from April 27 May
 27
- Every Tuesday & Thursday in June
- Tuesdays: 10-11 AM; Thursdays: 2-3 PM



1. GECO EI Application Training PowerPoint and Recording

https://epd.georgia.gov/forms-permits/air-protection-branch-forms-permits/air-emissions/submit-emissions-inventory

2. CAERS User guide

https://epd.georgia.gov/forms-permits/air-protection-branch-forms-permits/air-emissions/submit-emissions-inventory

3. Past EPA CAERS Webinar Recordings

https://www.epa.gov/e-enterprise/e-enterprise-combined-air-emissions-reporting-caer

- CAERS EI User Interface (3/24/21) Link coming soon
- CAERS EI Bulk Uploading Template (3/31/21) Link coming soon
- CAERS EI Control Path Webinar (4/14/21) Link coming soon



Contact us at: emissions.inventory@dnr.ga.gov





QUESTIONS FROM HAPS TRAINING (1)

- What happens with reported HAP emissions if that chemical does not trigger TRI reporting thresholds?
 - If you are not subject to TRI or the thresholds are not triggered, the HAPs emissions are just kept in CAERS. Voluntary HAPs reporting allows facilities to provide accurate emissions data at the process level. Otherwise, EPA uses HAPs augmentation to establish HAPs emissions in the national emission inventory.



QUESTIONS FROM HAPS TRAINING (2)

- For TRI reporting, if a constituent is reported as a range, the average of that range is used. However, for air emissions reporting, the maximum concentration is typically used so emissions for the two reports do not always correspond exactly. Should emissions reported for air emissions purposes be revised/modified when filing the TRI?
 - Report emissions as required by TRI. You have the option of not keeping the emissions as reported in CAERS. If this is the case, TRI-MEweb allows you to not accept the NEI data and you can leave a comment explaining why you did not use the CAERS data. EPA prefers the total of the reported HAP emissions in the CAERS EI should be the same as the facility-level TRI data since CAERS EI reported process-level HAPs data should sum to the same values in TRI.



QUESTIONS FROM HAPS TRAINING (3)

- Are the HAPs reported required to have a PTE > 100 tons/yr?
 - No, HAPs at any level can be reported.
- Are any HAPs reported?
 - Yes, any HAPs can be reported. Voluntary HAPs reporting in CAERS allows facilities to provide accurate emissions data at the process level to the NEI. Otherwise, EPA adds HAPs to facilities where they are not reported by SLTs. First, by using the TRI-reported data and second by relying on SLT-submitted VOC or PM values via HAP augmentation. (EPA 2020 NEI Plan)
 - While the EPA prefers the State-reported HAP emissions for the NEI because they should be at a more detailed process level, the facility-level TRI data and State-reported process-level data should sum to the same values.