

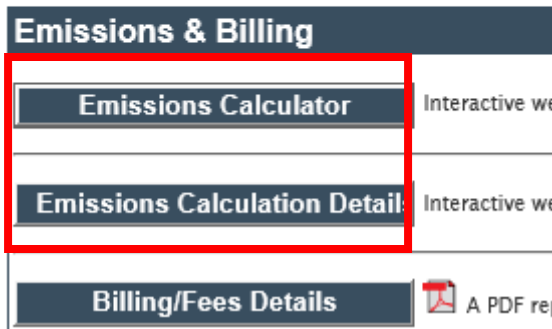
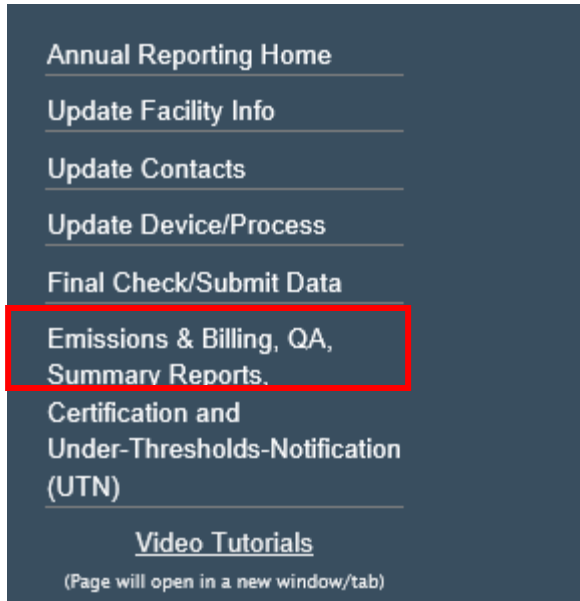
# **Air Emissions Inventory (EI) – Calculating Emissions**

July 2021

# Summary

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- [Using the Emissions Calculator page to run the emissions calculator](#)
- [Using the Emissions Calculation Details page to run the emissions calculator](#)
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# General



- After the required device and process data have been entered in the Air Reporting System (ARS), emissions can be calculated. The emissions calculator can be run from either:
  - ✓ The Emissions Calculator page; or
  - ✓ Emissions Calculator Details page
- The results will display as either emissions or emission calculation details that can be filtered by device, process and pollutant.
- By default, only pollutants above reporting thresholds display on EI summary reports.

# Using the Emissions Calculator (EC) page to run the emissions calculator

1. In the blue column on the left, click *Emissions & Billing, QA, Summary Reports, Certification and Under-Thresholds-Notification (UTN)*.

FID: 555555550

Air Emissions Reporting

FID: 555555

Facility - 555555550 : AIR Test FACILITY #1 DNR Contact : Steven Bogost, (608) 264-8843 [Steven.Bogost@wisconsin.gov](mailto:Steven.Bogost@wisconsin.gov)

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## **Air Reporting System (ARS) Home for the 2020 Air Emissions Inventory (EI)**

### **Air Emissions Inventory (EI) Reporting Calendar**

- March 1, 2021 - EIs or Under-Thresholds-Notifications (UTNs) are due.
- April 1, 2021 - Facilities notified through email that EIs or UTNs are overdue.
- By May 31 2021 environmental fee statements are emailed to facilities or mailed if no email address is available.
- June 30, 2021 - Environmental fees payments and certifications are due.

### **EI Reporting Basic Steps**

1. Review, revise and save the facility info including completion the Environmental Management System (EMS) questionnaire.
2. Review contacts info. If changes are needed, only people previously associated with the facility can be assigned.

# Using the EC page to run the EC

2. On the ARS Summary Data page on the Emissions & Billing tab, click *Emissions Calculator*.

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## ARS Summary Data

Report Status:

[Emissions & Billing](#) [QA](#) [Summary Reports](#) [Certification and Under-Thresholds-Notification \(UTN\)](#)

### Emissions & Billing

|   |   |
|---|---|
| <a href="#">Emissions Calculator</a>          | Interactive web page showing aggregate emissions at various levels.   |
| <a href="#">Emissions Calculation Details</a> | Interactive web page showing detailed information from the latest emissions calculator run.   |
| <a href="#">Billing/Fees Details</a>          |  A PDF report showing detailed billing and fee information. ** This is not a bill ** |

# Using the EC page to run the EC

3. On the Emissions Calculator page:
  - a. Click *Calculate* once.
  - b. Click *Refresh Screen* until the calculations are 100% complete.

## Emissions Calculator

| Calculator Status                     |   |
|---------------------------------------|---|
| CALC_REQD: Needs to be calculated. #a | <input type="button" value="Calculate"/> <input type="button" value="Refresh Screen"/> #b Calc is 100% complete |

| Current Emissions (2020)   |         |          |            |   |
|--|---------|----------|------------|---|
| Level:   | Device: | Process: | Pollutant: | <input checked="" type="radio"/> LB         |
| [ALL] ▾  | ▾       | ▾        | ▾          | <input type="radio"/> TON                   |
|  |         |          |            | <input type="button" value="Apply Filter"/> |
| If you would like to this year to SHOW the same pollutants as the PRIOR year, check here: <input type="checkbox"/> |         |          |            |   |
| Unchecking the box will only SHOW mandatory pollutants for this year:  |         |          |            |   |

| Former Years' Emissions |              |
|-------------------------|--------------|
| Choose Year:            | 2019 ▾ ----- |

# Using the EC page to run the EC

4. When the EC completes its calculations, the facility/source level emissions data are displayed including:
  - a. MASS FLOW (i.e., the emissions generated)
  - b. RELEASE (i.e., the emissions released to the environment after controls)
  - c. SHOW column indicating which pollutants are displayed on an EI summary report regardless of emissions quantity
  - d. PRIOR column indicating if a pollutant was reported in the previous EI

## Emissions Calculator

**Calculator Status**

CALC\_DONE: Emissions calculation succeeded. Calc is 100% complete

---

**Current Emissions (2020)**

Level:  Device:  Process:  Pollutant: 

 LB  TON

| FACILITY  | DEVICE | PROCESS | POLLUTANT    | MASS FLOW          | RELEASE            | UNIT | TYPE | SHOW                                | PRIOR                               |
|-----------|--------|---------|--------------|--------------------|--------------------|------|------|-------------------------------------|-------------------------------------|
| 555555550 |        |         | CO           | 28,880.47816       | 28,880.47816       | LB   |      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 555555550 |        |         | NOX          | 112,957.57129      | 112,957.57129      | LB   |      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 555555550 |        |         | PM           | 10,968.55696       | 10,968.55696       | LB   |      | <input checked="" type="checkbox"/> |                                     |
| 555555550 |        |         | PM10         | 13,578.28061       | 13,578.28061       | LB   |      | <input checked="" type="checkbox"/> |                                     |
| 555555550 |        |         | ROG          | 2,369.41799        | 2,369.41799        | LB   |      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 555555550 |        |         | SO2          | 6,779.89193        | 6,779.89193        | LB   |      | <input type="checkbox"/>            |                                     |
| 555555550 |        |         | 1,3,5 TRIGIY | 1,975,510,204.1017 | 1,975,510,204.1017 | LB   |      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 555555550 |        |         | ACETALDEHYDE | .00054             | .00054             | LB   |      | <input type="checkbox"/>            |                                     |
| 555555550 |        |         | ACETIC ACID  | 15.00000           | 15.00000           | LB   |      | <input type="checkbox"/>            |                                     |
| 555555550 |        |         | ACETONE      | .00204             | .00204             | LB   |      | <input checked="" type="checkbox"/> |                                     |
| 555555550 |        |         | ACROLEIN     | .04289             | .04289             | LB   |      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 555555550 |        |         | ADIPIC ACID  | 98.00000           | 98.00000           | LB   |      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

# Using the EC page to run the EC

5. When the EC completes its calculations, the facility/source level emissions data are displayed including (cont.):
  - e. Level, device, process and pollutant filters and unit radio buttons
  - f. Apply Filter button (i.e., used to run query after filters and units are selected)
  - g. Check box to show the same pollutants as the prior year
  - h. Emissions from previous EI years

## Emissions Calculator

**Calculator Status**

CALC\_DONE: Emissions calculation succeeded.   Calc is 100% complete

**Current Emissions (2020)**

Level:  Device:  Process:  Pollutant:   LB  TON  #f

#e

| FACILITY | DEVICE | PROCESS | POLLUTANT | MASS FLOW | RELEASE  | UNIT | TYPE | SHOW | PRIOR |
|----------|--------|---------|-----------|-----------|----------|------|------|------|-------|
|          | B01    | 222     | NOX       | 56.00000  | 56.00000 | TON  |      |      |       |

If you would like to this year to SHOW the same pollutants as the PRIOR year, check here:  #g  
Unchecking the box will only SHOW mandatory pollutants for this year:

**Former Years' Emissions**

Choose Year:  ----

NO DATA FOUND FOR PREVIOUS YEAR #h



# Using the Emissions Calculator Details (ECD) page to run the emissions calculator

1. In the blue column on the left, click *Emissions & Billing, QA, Summary Reports, Certification and Under-Thresholds-Notification (UTN)*.

FID: 555555550 Air Emissions Reporting FID: 555555

Facility - 555555550 : AIR Test FACILITY #1 DNR Contact : Steven Bogost, (608) 264-8843 [Steven.Bogost@wisconsin.gov](mailto:Steven.Bogost@wisconsin.gov) [Back to Switchboard](#)

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### EI Reporting Basic Steps

1. Review, revise and save the facility info including completion the Environmental Management System (EMS) questionnaire.
2. Review contacts info. If changes are needed, only people previously associated with the facility can be assigned

# Using the ECD page to run the EC

2. On the ARS Summary Data page on the Emissions & Billing tab, click *Emissions Calculation Details*.

Facility - 55555550 :-1 DNR Contact : Steven Bogost, (608) 264-8843 [Steven.Bogost@wisconsin.gov](mailto:Steven.Bogost@wisconsin.gov) [Back](#)

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## ARS Summary Data


Report Status:

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### Emissions & Billing

[Emissions Calculator](#) Interactive web page showing aggregate emissions at various levels.

[Emissions Calculation Details](#) Interactive web page showing detailed information from the latest emissions calculator run.

[Billing/Fees Details](#)  A PDF report showing detailed billing and fee information. \*\* This is not a bill \*\*

# Using the ECD page to run the EC

3. On the Emissions Calculator Details page:
  - a. Click *Calculate* once.
  - b. Click *Refresh Screen* until the calculations are 100% complete.

## Emissions Calculator Details

### Calculator Status

CALC\_DONE: Emissions calculation succeeded.

**#a**   **#b** Calc is 100% complete

### Calculator Details

Filters: DEVICE -- PROCESS      Pollutant

[ALL]      [ALL]

| LEVEL TYPE | DEVICE | PROCESS | POLLUTANT    | MESSAGE                                |
|------------|--------|---------|--------------|--|
| SRC        | ***    | ***     | 1,3,5 TRIGIY | ***** 1,3,5 TRIGIY *****               |
| PRO        | 1102   | 01      | 1,3,5 TRIGIY | ----- Begin 1102-01 1,3,5 TRIGIY ----- |
| PRO        | 1102   | 01      | 1 3 5 TRIGIY | TPUT = 10 GAL : Fmis Factor = 3 MCF    |

# Using the ECD page to run the EC

- When the EC completes its calculations, emissions calculations at all levels are displayed (i.e., facility/source, device and process) including throughputs, emission factors, reported emissions and control efficiencies.

## Emissions Calculator Details

**Calculator Status**

CALC\_DONE: Emissions calculation succeeded.

Calc is 100% complete

**Calculator Details**

Filters: DEVICE -- PROCESS      Pollutant

[ALL]      [ALL]

| LEVEL TYPE | DEVICE | PROCESS | POLLUTANT    | MESSAGE   |
|------------|--------|---------|--------------|---|
| SRC        | ***    | ***     | 1,3,5 TRIGIY | ***** 1,3,5 TRIGIY *****  |
| PRO        | 1102   | 01      | 1,3,5 TRIGIY | ----- Begin 1102-01 1,3,5 TRIGIY -----                                    |
| PRO        | 1102   | 01      | 1,3,5 TRIGIY | TPUT = 10 GAL; Emis Factor = 3 MCF  |
| PRO        | 1102   | 01      | 1,3,5 TRIGIY | After unit standardization, emissions coming out of 1102-01 = .00401 LBs  |
| PRO        | 1102   | 01      | 1,3,5 TRIGIY | Initial emissions = .00401  |
| PRO        | 1102   | 01      | 1,3,5 TRIGIY | ---->.00401 LBs is released as fugitive (No Streams)                      |
| PRO        | 1102   | 01      | 1,3,5 TRIGIY | ----- Total PRO 1102-01 LBs release: .00401 (0 from STACK; .00401 as FUG) |

# Using the ECD page to run the EC

- The results may be filtered by device, process and pollutant using the dropdown lists.

### Emissions Calculator Details

Calculator Status

CALC\_DONE: Emissions calculation succeeded.

Calculate
Refresh Screen
Calc is 100% complete

---

Calculator Details

Filters: 
 DEVICE -- PROCESS      Pollutant  
 [ALL]                      ▼      [ALL]                      ▼

| LEVEL TYPE | DEVICE | PROCESS | POLLUTANT    | MESSAGE   |
|------------|--------|---------|--------------|---|
| SRC        | ***    | ***     | 1,3,5 TRIGIY | ***** 1,3,5 TRIGIY *****  |
| PRO        | 1102   | 01      | 1,3,5 TRIGIY | ----- Begin 1102-01 1,3,5 TRIGIY -----                                    |
| PRO        | 1102   | 01      | 1,3,5 TRIGIY | TPUT = 10 GAL; Emis Factor = 3 MCF  |
| PRO        | 1102   | 01      | 1,3,5 TRIGIY | After unit standardization, emissions coming out of 1102-01 = .00401 LBs  |
| PRO        | 1102   | 01      | 1,3,5 TRIGIY | Initial emissions = .00401  |
| PRO        | 1102   | 01      | 1,3,5 TRIGIY | ---->.00401 LBs is released as fugitive (No Streams)                      |
| PRO        | 1102   | 01      | 1,3,5 TRIGIY | ----- Total PRO 1102-01 LBs release: .00401 (0 from STACK; .00401 as FUG) |

# For EI and Air Reporting Switchboard Help

- Contact the facility-assigned compliance engineer. On the DNR's website, find the compliance engineer's contact information by using the [AIR PERMIT SEARCH](#) tool to locate the facility and select the DNR Air Contacts tab.

General Facility Information | Facility Contacts | **DNR Air Contacts** | Permits and Permit Applications | Emission Inventory Reports | Industrial Monitoring Data

- OR -

- Email:  
[DNRAMEmissionsInventory@wisconsin.gov](mailto:DNRAMEmissionsInventory@wisconsin.gov)