

ECHO Clean Air Tracking Tool (ECATT)

Version 2

July 2019

Why ECATT?

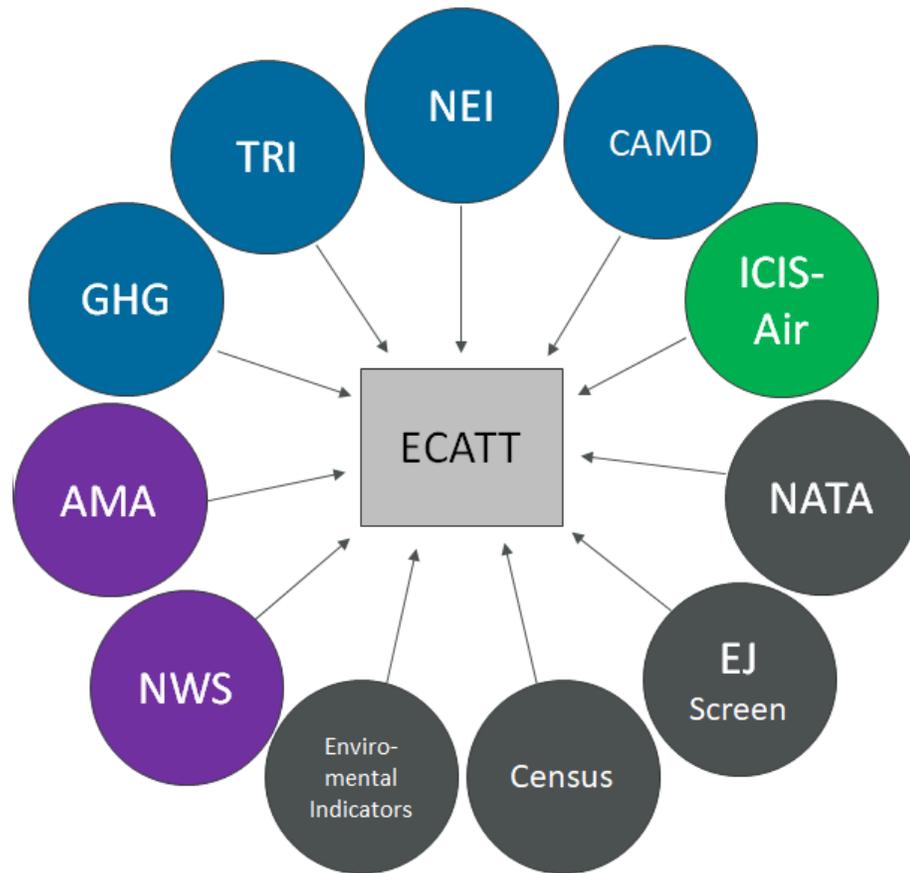
- ECATT fills a need to integrate info about regulated facilities, including their permitting status, reported emissions data, and evaluation and compliance data, with monitored ambient air quality data, risk calculations, and modeled air quality data.
- Leverages EPA's ECHO extensive and well-used integration platform to make it easy to find pollutant and cancer-risk hotspots and then map back to possible nearby contributors to monitored risk.
- EPA has used this approach to target under a National Enforcement Initiative. ECATT automates the methods developed within the NEI.

What is ECATT?

- Government-only tool that makes it easy to use air monitoring stations to find pollutant and cancer-risk hotspots and analyze related data to identify potential contributors.
 - Part of Open Gov plan to make parts of tool public in FY 2019.
- Includes emissions data from the Toxics Release Inventory (TRI), Greenhouse Gas Reporting Program (GHGRP), Emissions Inventory System (EIS), and Clean Air Markets Division (CAMD) programs, as well as enforcement and compliance data, facility classifications, air monitoring station data, and toxic risk data.
- Can help identify facilities that may be under-permitted (e.g. minor instead of major) based on reported emissions.



Data Flowing Into ECATT



Many stove-piped data sources with useful information have now been integrated in this tool.

Emissions Inventories

TRI – Toxic Release Inventory

NEI – National Emissions Inventory

CAMD – Clean Air Markets Division

GHG – Greenhouse Gas Reporting Program

Compliance Data

ICIS Air – Integrated Compliance Information System

Ambient Conditions -

NWS – National Weather Service

AMA – Ambient Monitoring Archive

Other Sources

NATA – National Air Toxics Assessment

EJ Screen – Environmental Justice Screen

How Compliance and Enforcement is Using ECATT

- To see which pollutants are being released and where.
- To find Air Toxics Monitoring Stations.
- Working backwards from Air Toxics hotspots to find potential contributors.
- Comparing how well monitored pollutant readings align with reported emissions from nearby facilities.
- Finding which facilities fit the profile of high pollutant releases, but do not have a major permit status.
- To see what industries or pollutants are contributing to overall pollutant loadings and/or risk.

Three Search Tools in ECATT

ECHO Clean Air Tracking Tool - Emission Screener

The ECHO Clean Air Tracking Tool (ECATT) is a single interface and repository for Clean Air Act data that can be used for air emission evaluation activities at stationary sources of air pollution. ECATT offers the following three searches:

- **Air Monitoring Stations (AMS)** search captures data from a network of ambient monitoring stations on measurements of Hazardous Air Pollutants.
- **Emission Screener** search captures data on stationary sources.
- **Non-Identifier Finder** search compares emission data with permit data.

Related Links

- [ECATT Help Documentation](#)
- [AMS Data Calculation Methodology](#)
- [About the Data](#)
- [Ambient Monitoring Data Download](#)
- [National Air Toxics Assessment \(NATA\)](#)

[Air Monitoring Stations](#) **Emission Screener** [Non-Identifier Finder](#)

[Collapse All](#) [Expand All](#) [Related Tools](#) [Help](#)

Report Type	Search Criteria Selected
Choose Report Type: Facility Report	Report Type: Facility Report
Emissions	Emissions

1. Air Monitoring Station search

- Data from air monitoring stations.
 - Ranked by cancer risk, hazard risk, or individual pollutant readings.
 - Other map layers (such as non-attainment areas and EJ screen) are available to provide more context.
- Search options incorporate NATA data so user can compare modeled results to monitored results.
- Use cases -
 - Identifying pollution hotspots and potential nearby contributors.
 - Comparing monitored readings with reported emissions from nearby facilities to identify discrepancies.
 - Ranking cancer risk, hazard risk, or pollutant readings between different monitors.

2. Emission Screener Search

- Single query tool for emissions data sorted by facility, industry, and pollutant. Allows for definition of parameters such as location, data year, pollutant category, facility characteristics, compliance history, and more.
- Use Cases –
 - Finding major contributors of hotspot-creating pollutants which are not located near monitors.
 - Identifying discrepancies between NEI and TRI.
 - Determining which industries or pollutants are contributing to overall pollutant loadings and/or risk.

3. Non-Identifier Finder

- Compares emission data with permit data to find facilities with potentially incorrect permit type.
- 5 types of search, each with default settings to guide users.
 - For example, when using the Potential Major HAP Sources search, tool prepopulates emission threshold of 100 tons per year.
- Use Cases –
 - Finding facilities which should have major permits but do not.
 - Identifying data quality issues in NEI, TRI, and ICIS – Air.

Key Reports Available Within ECATT

- Air Pollutant Report
 - Only place which combines stationary source permit info and an integrated view of all releases (individual and aggregated) over the last 10 years with trend charts and other information.
 - Facility-level view
 - Allows trend view of Greenhouse Gas Data, Acid Rain Data, National Emissions Inventory and Toxics Release Inventory – air releases.
 - Public and available from ECHO Facility Search.
- Air Monitoring Station Report
 - Lists all pollutants recorded at a monitor with readings, trends, meteorological data, and information about nearby facilities.
 - Interactive report at monitoring station level.
 - Ranks and maps all stationary sources within 5 km, then allows users to choose pollutant of interest and analyze likely nearby sources based on monitored data, reported emissions and wind readings.

Air Pollutant Report

Facility Summary



PORT TOWNSEND PAPER MILL
 100 MILL RD, PORT TOWNSEND, WA 98368 ⓘ

Facility Information (FRS)

FRS ID: [110000490326](#)
 EPA Region: 10
 Latitude: 48.093793
 Longitude: -122.796806
 Locational Data Source: EIS
 Industry: Paper (except Newsprint) Mills, Pulp Mills
 ICIS-Air Source ID: WA0000005303100001
 ICIS-Air Facility Status: Operating Major Emissions

Emission Inventories

- National Emissions Inventory (NEI): 4880511
- Greenhouse Gas Reporting Program (GHGRP): [1005732](#)
- Toxics Release Inventory (TRI): [98368PRTTW100PA](#)
- Clean Air Markets Division (CAMD): No Information

[Search for Excess Emission Reports](#)

[Search for Spills](#)

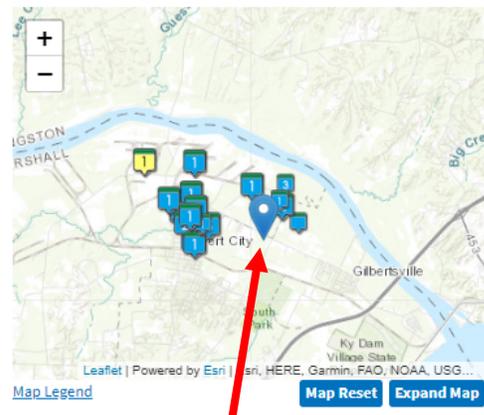
Emissions

Total Aggregate Emissions Data

Program	Pollutant	Units	Trend	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
GHG	Total GHGs	MTCO ₂ e				609,004.91	609,580.16	614,400.66	555,703.96	562,962.96	572,692.79	469,961.33	601,256.29
NEI	Total HAPs	Pounds		375,305.45			379,471.42			399,452.59			
NEI	Volatile Organic Compounds	Pounds		92,000.00			88,000.00			104,000.00			
TRI	TRI Air Toxics	Pounds		430,089.51	464,101.20	544,356.40	428,557.20	454,935.90	433,977.90	481,995.10	506,919.80	482,153.80	339,018.90
TRI	TRI Criteria Pollutants	Pounds		75,328.00	73,160.00	76,370.00	72,360.00	75,340.00	72,350.00	78,350.00	72,340.00	75,280.00	75,434.50

Air Monitoring Station Report

Monitor Summary



Load Facilities within 5km

Show Air Facilities

Monitor Information
AMA Site Code: 211570014
State: KY
Monitor Latitude: 37.04520035
Monitor Longitude: -88.33087158
Location Type: Not in Metropolitan/Micropolitan Area
Programs: UATMP

Weather Station Information
Nearest Weather Station: BARKLEY (03816)
Station Location: KY
Station Latitude: 37.0563
Station Longitude: -88.7744

Pollutants Monitored (select one to view details)

Pollutant Name	Trend	Cancer Risk from Monitor Measurements (2017)
ETHYLENE DICHLORIDE		146
VINYL CHLORIDE		7.29
BENZENE		5.56
CARBON TETRACHLORIDE		4.82

Monitoring Station with > 100 in a million cancer risk

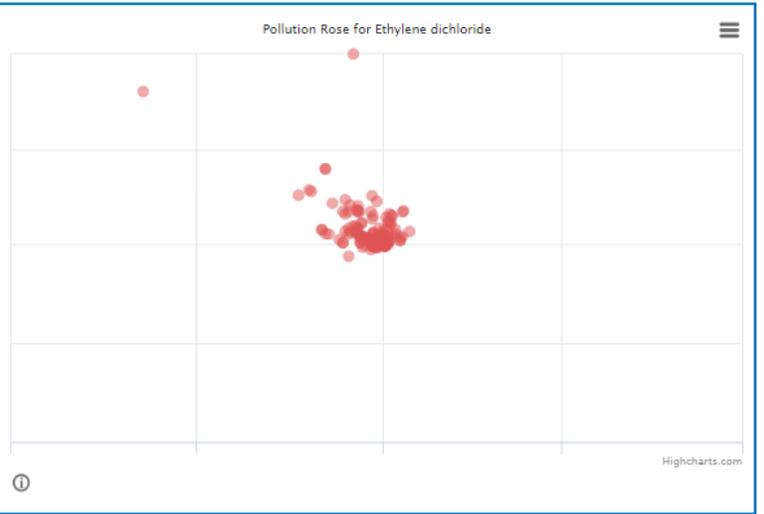
Annual Statistics

Annual Statistics Summary for ETHYLENE DICHLORIDE - (View Trends Plot)

Download Data

Year	Monitoring Program	Number of Daily Measurements Per Year	Average Concentration (µg/m³)	Maximum Concentration (µg/m³)	Median Concentration (µg/m³)	Variance (µg/m³)	Reference Concentration (µg/m³)	2014 NATA Modeled Concentration (µg/m³)	Percent of Daily Measurements over 2014 NATA Modeled Concentration
2013	UATMP	60	3.7	1.1e+2	0.21	2.1e+2	0.068	0.054	95
2014	UATMP	57	3.6	27	0.47	43	0.057	0.054	98.2456140
2015	UATMP	60	3.7	24	0.37	38	0.053	0.054	96.6666666
2016	UATMP	59	3.5	23	0.70	29	0.053	0.054	100
2017	UATMP	58	5.6	1.1e+2	0.35	2.7e+2	0.097	0.054	96.5517241

Ambient Conditions



Facility Emissions

Facility Name	Reports	Pollutant Name	2017 TRI Emissions (lb/yr)	2014 NEI Emissions (lb/yr)
WESTLAKE VINYL INC	C A	1,2-Dichloroethane	87,836 pounds	14,659 pounds
ARKEMA INC	C A	1,2-Dichloroethane	1.00 pounds	0.93 pounds
POLYONE CORPORATION/GOODRICH CORPORATION	C A	1,2-Dichloroethane	0 pounds	3,322 pounds
NORTH AMERICAN PIPE CORP	C A	1,2-Dichloroethane	0 pounds	24.39 pounds

Caveats/Known Issues

- Age of data
 - ECATT includes the most recent data inventories available.
 - TRI – Currently 2017. Will be updated with 2018 when available.
 - NEI – Currently 2014. 2017 data is expected in Spring 2020.
 - AMA – Currently 2017. We are looking into the possibility of incorporating more real-time data.
- Data Linkages
 - ECATT relies on the Facility Registry System (FRS) to properly link all data systems together at the facility level. If linkages are missing, then a facility may appear to have very high releases of a pollutant in one program (e.g., TRI), but no releases in another program (e.g., NEI). ECATT makes it easy to spot those problems and users can submit error reports.
- ICIS-Air
 - ECATT assumes ICIS-Air is the definitive source of facility permit status information, so any data quality problems will confound results.
 - ICIS-Air currently does not have complete violation data.

Development Cycle - ECATT

- Version 1 was released in June 2017.
- Version 2 is being released now.
 - Improved mapping component and data methodology (see next slides for details).
- Queue
 - Add Criteria Pollutant data.
 - Make sections of tool public (i.e. Air Monitoring Station and Emission Screener searches).
- Upcoming Outreach
 - Will conduct training and outreach with all interested states and Regions (Dates: TBA).
 - Improve integration with CAA targeting strategies and policies.
 - Expected “shake-out” period for data quality and linkage issues as use increases.
 - Please contact Jesse Yourish (Yourish.jesse@epa.gov) with any questions or comments.

Version 2 – New Features

Map Legend

- Cancer Risk >100
- Cancer Risk 50 - 100
- Cancer Risk 10 - 50
- Cancer Risk <10 and >0
- No Cancer Risk Data

Current Search -

619 Monitors Found

Selected Criteria

Choose a Timeframe: undefined
 Define Year as: Best Rolling 12-Months of Data
 Search Aggregate or Single Pollutant: Aggregate of All Pollutants
 Set Non-Detects Equal To: Zero
 Exclude Results with More Than 80% Non-Detects: Yes

Explore Air Monitoring Criteria

Choose a Timeframe: 2017
 Set Non-Detects Equal To: Zero
 Exclude Results with More Than 80% Non-Detects

Aggregate or Single Pollutant: Aggregate of All Pollutants
 Pollutant Name: Select a Pollutant

Enter AMA Site Codes:

Modify Search

Filter Monitors -

Filtering 124 of 619 Monitors [Clear All](#)

Mapping Mode

AMA Site Code	Location	Map	State	Location Type	Program	Latitude	Longitude	Avg Cancer Risk from Monitor Measurements	Census Tract	Non Detect Method
261830005	Wayne County, MI		MI	Metropolitan Statistical Area	SPECIAL PURPOSE	42.26723099	-83.13208771	62	--	ZERO
295100085	St. Louis city, MO		MO	Metropolitan Statistical Area	NATTS MCO CORE HAP: UATMP, NATTS NON-MCO CORE HAP: UATMP, PM2.5 SPECIATION NETWORK, SLAMS	38.65642929	-90.198349	62	--	ZERO
270530982	Hennepin County, MN		MN	Metropolitan Statistical Area	MINNESOTA_AIR_TOXICS	44.98524046	-93.25476074	62	--	ZERO

Map symbology improvements - users can rank Cancer Risk, Hazard Index, and pollutant readings using color-coded system for station pins.

- Map symbology dynamically updated based on metrics in the “current search” panel.
- Makes it much easier to find different kinds of pollutant hotspots.

Version 2 – New Features

- Ability to modify the search directly on the search results page.
 - Users can filter results using criteria related to:
 - Geographic Characteristics
 - Ambient Air Quality Characteristics
 - Modeled Risk Screening
- Ability to overlay map layers, including Air Maps, EJSCREEN, places, and boundaries.

The screenshot displays the 'Filter Monitors' and 'Layers' panels of a web application. The 'Filter Monitors' panel shows a search for 124 of 619 monitors. It includes sections for 'Mapping Mode', 'Geographic Characteristics' (with filters for Metropolitan, Rural, and Tribal Land), 'Ambient Air Quality Characteristics' (with a slider for Median Long-Term Cancer Risk), and 'Modeled Risk Screening' (with a slider for NATA(2014) Long-Term Cancer Risk). The 'Layers' panel shows a warning about map scale and a list of available layers such as 'Air Maps', 'EJSCREEN Maps', 'Places', and 'Boundaries'.

Filter Monitors –

Filtering 124 of 619 Monitors [✕ Clear All](#)

Mapping Mode

Metric: Avg Cancer Risk Target System: Respiratory

Geographic Characteristics

Location Type

- 459 Metropolitan
- 77 Micropolitan
- 83 Rural

Tribal Land

- 20 Located On or Near Tribal Land

0 miles 1 mile 5 miles 10 miles 25 miles 25+ miles

Ambient Air Quality Characteristics

Median Long-Term Cancer Risk (people in a million)

- 124 Monitors with Total Cancer Risk >25

0 5 10 25 50 100

Compare Ambient Daily Average Measurements to Modeled Concentrations

- 21 Monitors with Concentrations >=2x
- 8 Monitors with Concentrations >=10x
- 3 Monitors with Concentrations >=100x
- 2 Monitors with Concentrations >=1000x
- 1 Monitors with Concentrations >=10,000x

Modeled Risk Screening

NATA(2014) Long-Term Cancer Risk (people in a million)

- 123 Monitors with Modeled Total Cancer Risk >0

0 5 10 25 50 100

Layers –

⚠ Each map layer requires a specific map scale for display. Layers are only available for selection if the map is zoomed in to a sufficient scale. Zoom in further to enable selection of additional layers.

Do not show again

Current Zoom: 17%

▼ **Air Maps**

- Nonattainment Areas by Pollutant (Unable to load)
- NATA Long-Term Cancer Risk Level
- NATA Long-Term Hazard Level
- ▶ 2014 NATA Emissions

▼ **EJSCREEN Maps**

- ▶ EJ 2020 Maps
- ▶ EJ Indexes
- ▶ Demographic Indicators
- ▶ Environmental Indicators

▼ **Places**

- Schools (Zoom to 44%)
- Hospitals (Zoom to 22%)

▼ **Boundaries**

- Indian Country Boundaries
- Federal Legislative Districts (Zoom to 22%)

Additional Version 2 Updates

- Added ability to search for monitors by ID. Multiple IDs are accepted.
- Annual Completeness Methodology for Ambient Air Quality Monitoring - cancer and hazard risks are calculated based on the assumption of continued, long-term exposure. A completeness criterion of 70% of expected days per quarter, for at least 3 quarters in a year, is available using the “Best Rolling 12-months of Data” option.
- Third non-detect option added - Regression on Order Statistics (ROS).
- Quick Map Access Icon - A button is available near the top of the AMS search page to take users directly to the results page with no filters selected.

How to Access ECATT

- Go to echo.epa.gov
 - Must login to ECHO Gov account.
 - EPA LAN users can access using single sign-on credentials, state users must register (through ECHO Gov login page).
 - <https://echo.epa.gov/trends/emission-screener>
- Send comments to:
 - yourish.jesse@epa.gov

ECHO Enforcement and Compliance History Online [ECHO Gov Login](#) [Contact Us](#)

- Quick Search
- Search Options
- Analyze Trends**
- Find EPA Cases
- Data Services
- Help
- News

Analyze Trends

ECHO provides many features to a variety to explore compliance and enforcement data. Use the links below to display trends through dashboards, maps, and charts.

Track Performance

- [State Dashboards - Air](#)
- [State Dashboards - Haz. Waste](#)
- [State Dashboards - Water](#)
- [State Dashboards - Pesticides](#)
- [State Comparative Maps](#)
- [Drinking Water Dashboard](#)
- [National Enforcement Initiatives](#)
- [NPDES eRule Readiness Dashboard](#)
- [NPDES DMR Non-Receipt Status Search](#)
- [NPDES Enforcement Framework](#)

Data Visualization

- [Data Visualization Gallery](#) ★
- [EPA Targeting Maps](#)

Review Reports

- [Water Annual Reports](#)
- [State Review Framework \(SRF\)](#)
- [SRF Recommendations](#)
- [Watch List](#)

Examine Pollution Sources

- [Water Pollutant Loading Tool](#) ★
- **[Clean Air Tracking Tool \(ECATT\)](#) ★**
- [Knowledge Bases](#)
- [Data Analytics](#)
 - [Water Quality Indicators Map](#)

★ Popular Feature 🏠 ECHO Gov

Demo/Screen Shots

Emission Screener Search Example

A basic, national search to run all facilities that:

- Report Lead emissions.
- Are in Lead nonattainment areas.

Search Criteria Selected ✕

Report Type

Facility Report

Emissions

Single Pollutant

Pollutant Name ✕

Lead

Reporting Year ✕

Current as of 2017 (Most Recent Year)

Geographic Location

Nonattainment Area Pollutant ✕

Lead

Nonattainment Area Severity ✕

Any

Search

Air Monitoring Stations | **Emission Screener** | Non-Identifier Finder

— Collapse All + Expand All

Report Type

Emissions

Aggregate Emissions Single Pollutant

Pollutant Name:

Chemical Abstract Service (CAS) Number:

Select Reporting Year:

Apply Toxic Weightings:

Geographic Location

ZIP Code:

EPA Region:

[View EPA regional map](#)

Regional Planning Organization (RPO):

[View RPO map](#)

State:

County:

City:

Located on Tribal Land:

Nonattainment Area

Pollutant	Severity
No Restrictions	No Restrictions
Any Pollutant	Any Nonattainment
Carbon Monoxide	Marginal
Lead	Moderate
Nitrogen Oxides	Serious
Ozone	Severe

Facility Characteristics

Facility Name:

Designation:

FRS Federal Facility Flag

Industry

NAICS Code (Use to enter 2, 3, 4, 5, or 6-digit codes):

NEI Source Classification Code (SCC):

EIS Facility Type:

GHG Facility Type:

GHG Reporting Program Subpart:

Enforcement and Compliance

Time Since Last Compliance Evaluation

No Restrictions Never Evaluated

Within None Within

Year(s)

By Agency: Any EPA State

Formal Enforcement Actions

No Restrictions Within None Within

Year(s)

By Agency: Any EPA State

Informal Enforcement Actions

No Restrictions Within None Within

Year(s)

By Agency: Any EPA State

The results of the previous Lead search.

ECHO Clean Air Tracking Tool - Emission Screener Results

View current Edit current Revisions

Some Clean Air Act data are frozen. [Read More...](#)

Hide Table Hide Summary Modify Search

Report Violation Help

Customize Columns Download Data Results Guide

Facility Name	City	State	Zip	ICIS-Air Source Classification	Pollutant Name	2017 TRI AIR EMISSIONS (Pounds)	2014 NEI EMISSIONS (Pounds)
SANDERS LEAD COMPANY INCORPORATED	TROY	AL	36079	Major Emissions	Lead	922	1,384
KW PLASTICS INCORPORATED	TROY	AL	36079	--	Lead	27.50	29.30
BUNTING BEARINGS LLC	DELTA	OH	43313	Synthetic Minor Emissions	Lead	5.00	7.00
BARRY CONTROLS	BURBANK	CA	91505	--	Lead	3.12	0
COMMERCE REFUSE-TO-ENERGY FACILITY	COMMERCE	CA	90040	Major Emissions	Lead	2.82	1.00
DEMENNO/KERDOON	COMPTON	CA	90222	Major Emissions	Lead	1.19	1.20
SEMCO ENTERPRISES INC	CITY OF INDUSTRY	CA	91744	--	Lead	0.5500	0
LIGHT METALS INC	LA PUENTE	CA	91746	Major Emissions Minor Emissions	Lead	0.4600	0.8643
OSI ELECTRONICS	HAWTHORNE	CA	90250	--	Lead	0.2900	0
HUGHES BROS. AIRCRAFTERS, INC	SOUTH GATE	CA	90280	--	Lead	0.2720	0
WESTERN TUBE & CONDUIT CORPORATION	LONG BEACH	CA	90810	Major Emissions	Lead	0.2140	0.0177

Search Statistics

Total Facility Count: 486

Majors: 111
Minors: 37
Synthetic Minors: 5

Search Criteria

Report Type: Facility
Emission Type: Single Pollutant
Pollutant Name(s): Lead
Include Results From: NEI, TRI
Reporting Year: 2017 (Most Recent Year)
Nonattainment Area Pollutant: Lead
Nonattainment Area Severity: Any

Modify Search

If the information you are looking for isn't visible, check the "Customize Columns" button to see what else is available.

ECHO Clean Air Tracking Tool – Emission Screener Results

View current Edit current Revisions

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Hide Table Hide Summary Modify Search Report Violation Help

Customize Columns Download Data Results Guide

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SANDERS LEAD COMPANY INCORPORATED	TRDY	AL	36079	Major Emissions	Lead	922	1,584
KW PLASTICS INCORPORATED	TRDY	AL	36079	--	Lead	27.50	29.30
BUNTING BEARINGS LLC	DELTA	OH	43315	Synthetic Minor Emissions	Lead	5.00	7.00
BARRY CONTROLS	BURBANK	CA	91505	--	Lead	3.12	0
COMMERCE REFUSE-TO-ENERGY FACILITY	COMMERCE	CA	90040	Major Emissions	Lead	2.82	1.00
DEMENNO/KERDOON	COMPTON	CA	90222	Major Emissions	Lead	1.19	1.20
SEMCO ENTERPRISES INC	CITY OF INDUSTRY	CA	91744	--	Lead	0.5500	0
LIGHT METALS INC	LA PUENTE	CA	91746	Major Emissions Minor Emissions	Lead	0.4800	0.8643
OSI ELECTRONICS	HAWTHORNE	CA	90250	--	Lead	0.2900	0
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Modify Search

ECHO Clean Air Tracking Tool - Emission Screener Results

View current Edit current Revisions

Some Clean Air Act data are frozen. [Read More](#)

Hide Table Hide Summary Modify

Customize Columns Download Data

Facility Name
SANDERS LEAD COMPANY INCORPORATED
KW PLASTICS INCORPORATED
BUNTING BEARINGS LLC
BARRY CONTROLS
COMMERCE REFUSE-TO-ENERGY FACILITY
DEMENNO/KERDOON
SEMCO ENTERPRISES INC
LIGHT METALS INC
OSI ELECTRONICS
HUGHES BROS. AIRCRAFTERS, INC
WESTERN TUBE & CONDUIT CORPORATION

Select Columns to Display:

+ Select All - Clear All

Facility Info	Emissions	Environmental Conditions
<input type="checkbox"/> Facility Name	<input type="checkbox"/> Pollutant Name	<input type="checkbox"/> Population Density
<input checked="" type="checkbox"/> City	<input type="checkbox"/> Pollutant Category	<input type="checkbox"/> Ozone Nonattainment
<input checked="" type="checkbox"/> State	<input checked="" type="checkbox"/> 2017 TRI AIR EMISSIONS (Pounds)	<input type="checkbox"/> PM Nonattainment
<input checked="" type="checkbox"/> Zip	<input checked="" type="checkbox"/> 2014 NEI EMISSIONS (Pounds)	<input type="checkbox"/> Lead Nonattainment
<input type="checkbox"/> Latitude		<input type="checkbox"/> SO2 Nonattainment
<input type="checkbox"/> Longitude		
<input type="checkbox"/> Regional Planning Organization		
<input type="checkbox"/> Federal Agency		
<input checked="" type="checkbox"/> ICIS-Air Source Classification		
<input type="checkbox"/> FRS ID		
<input type="checkbox"/> NEI IDs		
<input type="checkbox"/> TRI IDs		
<input type="checkbox"/> GHG IDs		
<input type="checkbox"/> CAMD IDs		
<input type="checkbox"/> ICIS-Air IDs		

Industry
<input type="checkbox"/> NAICS Codes
<input type="checkbox"/> SCC Codes
<input type="checkbox"/> EIS Types
<input type="checkbox"/> GHG Types
<input type="checkbox"/> GHG Subparts

Enforcement and Compliance
<input type="checkbox"/> CAA Evaluations (5 Years)
<input type="checkbox"/> CAA Formal Enforcement Actions (5 Years)
<input type="checkbox"/> CAA Informal Enforcement Actions (5 Years)

Update Columns Cancel

Report Violation Help

486

utant

TRI

t Recent Year)

tant: Lead

ity: Any

Modify Search

To view the Air Pollutant Report, select the hyperlink for any facility.

ECHO Clean Air Tracking Tool – Emission Screener Results

View current | Edit current | Revisions

Some Clean Air Act data are frozen. [Read More...](#)

Hide Table | Hide Summary | Modify Search

Report Violation | Help

Customize Columns | Download Data | Results Guide

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Total Facility Count: 486

Majors: 111

Minors: 37

Synthetic Minors: 5

Search Criteria

Report Type: Facility
 Emission Type: Single Pollutant
 Pollutant Name(s): Lead
 Include Results From: NEI, TRI
 Reporting Year: 2017 (Most Recent Year)
 Nonattainment Area Pollutant: Lead
 Nonattainment Area Severity: Any

Modify Search

Air Pollutant Report

Facility Summary



SANDERS LEAD COMPANY INCORPORATED

100 SANDERS ROAD, TROY, AL 36079

Facility Information (FRS)

FRS ID: [110056964183](#)

EPA Region: 04

Latitude: 31.788115

Longitude: -85.977613

Locational Data Source: EIS

Industry: Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum)

ICIS-Air Source ID: AL0000000110900005

ICIS-Air Facility Status: Operating Major Emissions

Emission Inventories

National Emissions Inventory (NEI): 985711

Greenhouse Gas Reporting Program (GHGRP):

[1003508](#)

Toxics Release Inventory (TRI):

[36081SNDRSHENDE](#)

Clean Air Markets Division (CAMD): No Information

[Search for Excess Emission Reports](#)

[Search for Spills](#)

Related Reports

[Detailed Facility Report](#)

This report shows basic facility info and pollutant release trends.

Emissions

⚠ Please read [important information](#) about emissions data sources and reported values

Showing unit(s):

Total Aggregate Emissions Data

Program	Pollutant	Units	Trend	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
GHG	Total GHGs	MTCO ₂ e				182,555.41	205,609.75	215,363.67	216,757.67	211,443.78	202,831.43	232,078.12	221,206.46
NEI	Total HAPs	Pounds		155,854.26			168,822.04			143,958.21			
NEI	Volatile Organic Compounds	Pounds		67,380.00			71,400.00			151,860.00			
TRI	TRI Air Toxics	Pounds		10,211.35	5,136.35	3,207.39	5,331.49	4,354.78	2,102.62	1,986.77	2,051.60	1,162.28	1,141.58
TRI	TRI Criteria Pollutants	Pounds		9,190.00	4,632.00	3,000.00	4,782.00	3,980.00	1,702.00	1,562.60	1,599.81	940.50	922.00
TRI	TRI HAPs	Pounds		789.00	377.00	126.00	468.20	374.40	400.24	423.98	451.60	221.60	219.40
TRI	TRI PBTs	Pounds		9,363.35	4,645.35	3,027.39	4,808.69	4,003.78	1,712.90	1,574.10	1,611.90	952.58	927.98

Air Monitoring Station Search Options

1. Search from search form.
2. Search from interactive map.

ECHO Clean Air Tracking Tool – Air Monitoring Stations

[View current](#) [Edit current](#) [Revisions](#)

The ECHO Clean Air Tracking Tool (ECATT) is a single interface and repository for Clean Air Act data that can be used for air emission evaluation activities at stationary sources of air pollution. ECATT offers the following three searches:

- **Air Monitoring Stations (AMS)** search captures data from a network of ambient monitoring stations on measurements of Hazardous Air Pollutants.
- **Emission Screener** search captures data on stationary sources.
- **Non-Identifier Finder** search compares emission data with permit data.

Related Links

- [ECATT Help Documentation](#)
- [AMS Data Calculation Methodology](#)
- [About the Data](#)
- [Ambient Monitoring Data Download](#)
- [National Air Toxics Assessment \(NATA\)](#)

1 **Air Monitoring Stations** Emission Screener Non-Identifier Finder

2 [Go Directly to Ambient Monitoring Stations Map](#)

[View Fewer Search Options](#) [Collapse All](#) [Expand All](#)

Geographic Location

Zip Code

EPA Region [View EPA regional map](#)

Regional Planning Organization (RPO) [View RPO map](#)

State

County

City

Search Criteria Selected

Monitored Risk Level

Define Year as Best Rolling 12-Months of Data

Timeframe Last 10 Years

Aggregate of All Pollutants

Set Non-Detects Equal To Use Regression Method

Exclude Results with More Than 80% Non-Detects Yes

[Search](#)

Air Monitoring Station Search Example

AMA Site Code	Location	Map	State	Location Type	Program	Latitude	Longitude	Avg Cancer Risk from Monitor Measurements	Census Tract	Non Detect Method
170310110	Cook County, IL		IL	Metropolitan Statistical Area	LEAD NAAQS MONITORING, SLAMS	41.85577011	-87.65792847	41	--	ROS
180350009	Delaware County, IN		IN	Metropolitan Statistical Area	LEAD NAAQS MONITORING	40.15841875	-85.4150238	0	--	ROS
191550011	Pottawattamie County, IA		IA	Metropolitan Statistical Area	LEAD NAAQS MONITORING	41.25424957	-95.88725281	0	--	ROS
270370465	Dakota County, MN		MN	Metropolitan Statistical Area	MINNESOTA_AIR_TOXICS	44.83430862	-93.11821857	0	--	ROS
290990004	Jefferson County, MO		MO	Metropolitan Statistical Area	LEAD NAAQS MONITORING	38.28338959	-90.37882998	0	--	ROS

This is an example of searching from the interactive map using the Go Directly to Ambient Monitoring Stations Map option.

Search Criteria:

- Year = 2010
- Non-Detects = ROS
- Developmental Hazard Index > 1
- Metropolitan area
- Measured readings >2x NATA modeled readings

*Note - using 2010 example to show proof of concept but avoid highlighting any potentially ongoing issues.

Air Monitoring Station Search Example

Map Legend

- Hazard Index >10
- Hazard Index 2 - 10
- Hazard Index 1 - 2
- Hazard Index <1
- No Hazard Index Data

Current Search +

Filter Monitors -

Filtering 12 of 198 Monitors [Clear All](#)

Mapping Mode

Metric: Hazard Index Target System: Developmental

Geographic Characteristics

Location Type

- 153 Metropolitan 20 Micropolitan
- 25 Rural

Tribal Land

- 0 Located On or Near Tribal Land

0 miles 1 mile 5 miles 10 miles 25 miles 25+ miles

Ambient Air Quality Characteristics

Hazard Index (Aggregate)

- 12 Monitors with Measured Developmental Hazard Level >1

0 0.1 0.5 1 2 10 20

Compare Ambient Daily Average Measurements to Modeled Concentrations

- 12 Monitors with Concentrations >=2x
- 12 Monitors with Concentrations >=10x
- 0 Monitors with Concentrations >=100x
- 0 Monitors with Concentrations >=1000x
- 0 Monitors with Concentrations >=10,000x

Modeled Risk Screening

NATA(2014) Hazard Index (Aggregate)

- 12 Monitors with Modeled Developmental Hazard Level >0

0 0.1 0.5 1 2 10 20

Pollutants Monitored +

Layers +

AMA Site Code	Location	Map	State	Location Type	Program	Latitude	Longitude	Avg Cancer Risk from Monitor Measurements	Census Tract	Non Detect Method
170310110	Cook County, IL		IL	Metropolitan Statistical Area	LEAD NAAQS MONITORING, SLAMS	41.85577011	-87.65792847	41	--	ROS
180350009	Delaware County, IN		IN	Metropolitan Statistical Area	LEAD NAAQS MONITORING	40.15841875	-85.4150238	0	--	ROS
191550011	Pottawattamie County, IA		IA	Metropolitan Statistical Area	LEAD NAAQS MONITORING	41.25424957	-95.88725281	0	--	ROS
270370465	Dakota County, MN		MN	Metropolitan Statistical Area	MINNESOTA_AIR_TOXICS	44.83430862	-93.11821857	0	--	ROS
290990004	Jefferson County, MO		MO	Metropolitan Statistical Area	LEAD NAAQS MONITORING	38.28338959	-90.37882998	0	--	ROS

This is an example of searching from the interactive map using the Go Directly to Ambient Monitoring Stations Map option.

Search Criteria:

- Year = 2010
- Non-Detects = ROS
- Developmental Hazard Index > 1
- Metropolitan area
- Measured readings >2x NATA modeled readings

*Note - using 2010 example to show proof of concept but avoid highlighting any potentially ongoing issues.

Air Monitoring Station Search Example

The screenshot displays a web-based air monitoring station search interface. At the top, there are navigation buttons for 'Map Legend' and 'Basemap Options'. The main area is a map of Minnesota, showing various air monitoring stations and census tracts. A red square highlights a specific station in the Minneapolis area. To the right of the map is a sidebar with search and filter options, including 'Current Search', 'Filter Monitors', 'Pollutants Monitored', and 'Layers'. Below these are 'Demographic Indicators' and 'Environmental Indicators' sections. A legend on the far right shows color-coded boxes for different demographic categories. At the bottom, a data table lists search results with columns for 'AMA Site Code', 'Location', 'Map', 'Location Type', 'Program', 'Avg Cancer Risk from Monitor Measurements', and 'Measured Developmental Hazard Index'. The first row is highlighted with a red box around the site code '270370485'.

AMA Site Code	Location	Map	Location Type	Program	Avg Cancer Risk from Monitor Measurements	Measured Developmental Hazard Index
270370485	Dakota County, MN		Metropolitan Statistical Area	MINNESOTA_AIR_TOXICS	0	1.8

Once you select an area and zoom in, you can add different layers for more analysis. In this case, the monitor with high Measured Developmental Hazard Index is also in a census tract with a large percentage of its population under 5. You can select either the monitor itself or the link in the data table to view the Air Monitoring Station Report.

Air Monitoring Station Report Example

The Monitor Summary shows the location of the monitor and nearby facilities as well as information about the monitor. The monitor is represented by the blue tear drop icon. All other icons are facilities.

The Pollutants Monitored table gives trend lines and cancer risks for all monitored pollutants. Select any pollutant to see more details.

The Ambient Conditions section has a pollution rose and a wind rose. On the pollution rose, each point represents one monitored reading. Its direction in relation to the center represents the cardinal direction of the wind that day, and its distance from the center represents the magnitude of the reading.

Monitor Summary | Ambient Conditions | Annual Statistics | Facility Emissions

Monitor Summary

Map Legend | Map Reset | Expand Map

Load Facilities within 5km

Show Facilities with LEAD (TSP) LC Emissions

Monitor Information
AMA Site Code: 270370485
State: MN
Monitor Latitude: 44.83430882
Monitor Longitude: -93.11821857
Location Type: Metropolitan Statistical Area
Programs: MINNESOTA_AIR_TOXICS

Weather Station Information
Nearest Weather Station: MINNEAPOLIS-ST PAUL INTERNATIONAL AP (14922)
Station Location: MN
Station Latitude: 44.8831
Station Longitude: -93.2289

Pollutants Monitored (select one to view details)

Pollutant Name	Trend	Cancer Risk from Monitor Measurements (LAST10)
ANTIMONY (TSP) STP		0
COBALT (TSP) LC		0
LEAD (TSP) LC		0
LEAD (TSP) STP		0
MANGANESE (TSP) LC		0
MANGANESE (TSP) STP		0
SELENIUM (TSP) LC		0
CHROMIUM (TSP) LC		

Define Year as: Best Rolling 12-Months of Data Calendar Year

Choose a Timeframe for Cancer Risk from Monitor Measurements: Last 10 Years

Ambient Conditions

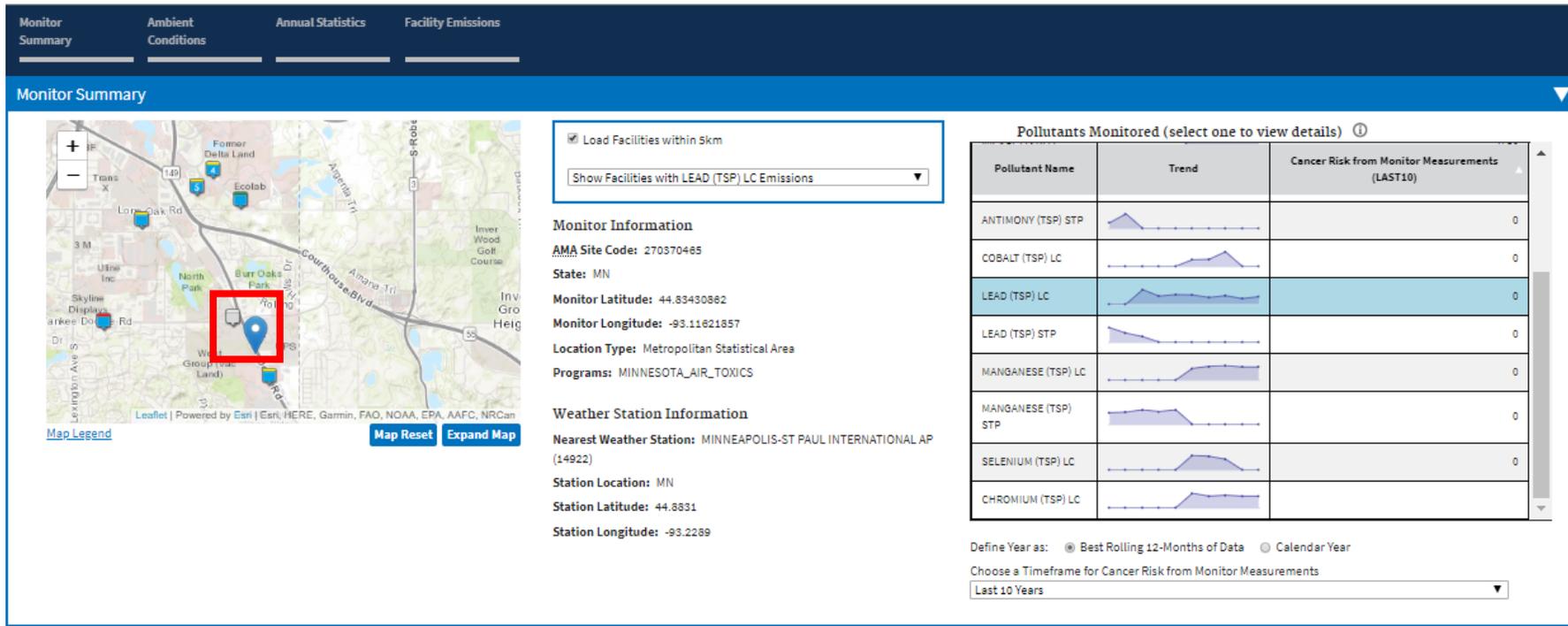
Pollution Rose for Lead (Tsp) Lc Frm / Fem

Highcharts.com

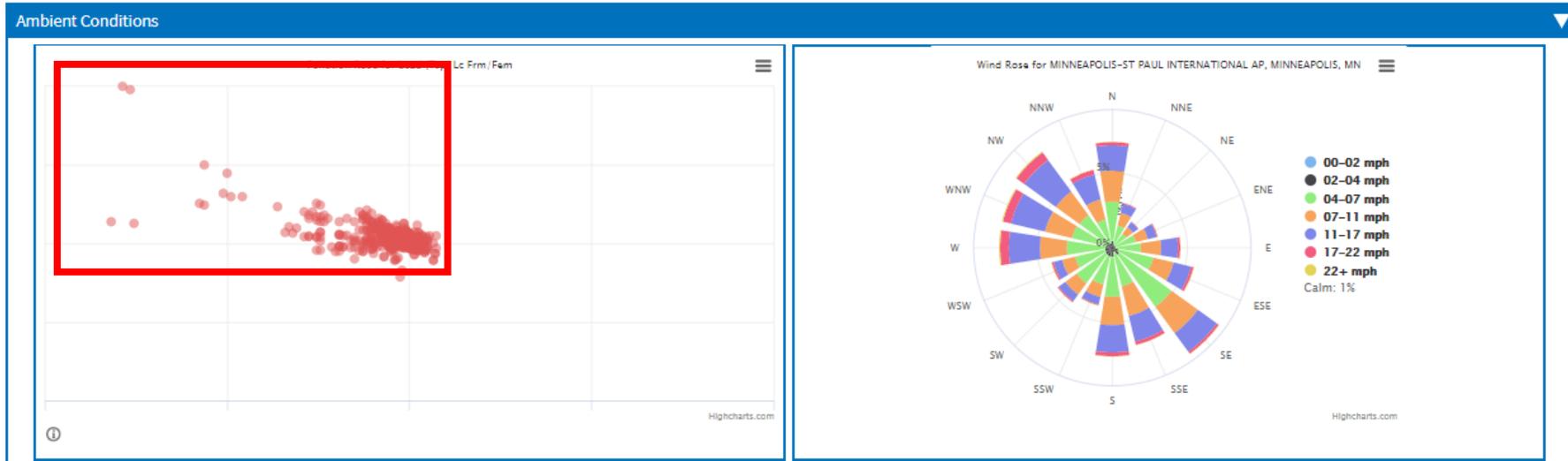
Wind Rose for MINNEAPOLIS-ST PAUL INTERNATIONAL AP, MINNEAPOLIS, MN

Highcharts.com

Air Monitoring Station Report Example



The pollution rose shows that all of the worst readings come on days when the wind is blowing from the NW. Note that there is one facility directly to the NW of the monitor.



Air Monitoring Station Report Continued

Annual Statistics

Annual Statistics Summary for LEAD (TSP) LC – (View Trends Plot) Download Data

Year	Monitoring Program	Number of Daily Measurements Per Year	Average Concentration (µg/m ³)	Maximum Concentration (µg/m ³)	Median Concentration (µg/m ³)	Variance (µg/m ³)	Reference Concentration (µg/m ³)	2014 NATA Modeled Concentration (µg/m ³)	Percent of Daily Measurements over 2014 NATA Modeled Concentration	Selected Timeframe
2010	MINNESOTA_AIR_TOXICS	58	0.13	2.5	0.050	0.11	0.0048	0.0015	100	01-JAN-10 - 31-DEC-10
2011	MINNESOTA_AIR_TOXICS	54	0.072	0.83	0.050	0.014	0.0054	0.0015	100	01-JAN-11 - 31-DEC-11
2012	MINNESOTA_AIR_TOXICS	60	0.086	0.56	0.045	0.010	0.0064	0.0015	100	01-JAN-12 - 31-DEC-12
2013	MINNESOTA_AIR_TOXICS	57	0.083	0.78	0.040	0.015	0.0075	0.0015	100	01-JAN-13 - 31-DEC-13
2014	MINNESOTA_AIR_TOXICS	61	0.060	0.71	0.029	0.010	0.0075	0.0015	100	01-JAN-14 - 31-DEC-14
2015	MINNESOTA_AIR_TOXICS	60	0.076	1.2	0.028	0.026	0.0075	0.0015	100	01-JAN-15 - 31-DEC-15
2016	MINNESOTA_AIR_TOXICS	61	0.050	0.41	0.016	0.0054	0.0075	0.0015	100	01-JAN-16 - 31-DEC-16
2017	MINNESOTA_AIR_TOXICS	58	0.067	0.59	0.035	0.0078	0.0075	0.0015	100	01-JAN-17 - 31-DEC-17

Note that 100 percent of daily lead measurements are over the NATA Modeled Concentration and that the highest lead emitter within 5km is the same facility highlighted in the previous slide.

Facility Emissions

Facility Name	Reports	Pollutant Name	2017 TRI Emissions (lb/yr)	2014 NEI Emissions (lb/yr)
GOPHER RESOURCE CORPORATION	C A	Lead compounds	213 pounds	0 pounds
GREAT LAKES COCA-COLA DISTRIBUTION LLC	C A	Lead	0 pounds	0.070 pounds
THOMSON LEGAL & REGULATORY EAGAN MFG	C A	Lead	0 pounds	0.032 pounds
ECOLAB - ALLEN L SCHUMAN CAMPUS	C A	Lead	0 pounds	0.019 pounds
ECOLAB - ENGINEERING CENTER	C A	Lead	0 pounds	0.012 pounds
3M MENDOTA HEIGHTS - BLDG 60	C A	Lead	0 pounds	0.010 pounds
DELTA AIR LINES INC - BLDG J	C A	Lead	0 pounds	0.0056 pounds
US POSTAL SERVICE MANAGEMENT SUPPORT SERVICE CTR	C A	Lead	0 pounds	0.0041 pounds
SKYLINE DISPLAYS, LLC - EAGAN FACILITY	C A	Lead	0 pounds	0.0034 pounds