

Taking Stock Online

Exploring Pollutant Releases and Transfers (PRTR) in Border Regions

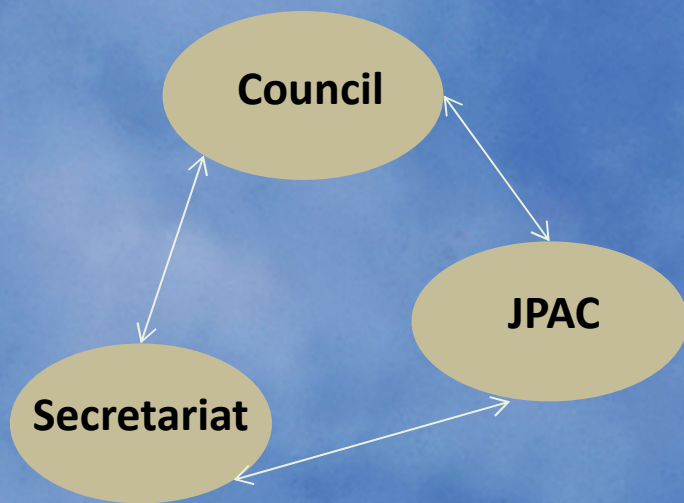
Children's Environmental Health Symposium
27 January 2016



cec.org

Commission for Environmental Cooperation (CEC)

Canada, Mexico and the United States created CEC to better protect our shared environment → **North American Agreement on Environmental Cooperation** (side agreement to NAFTA)



Facilitate collaboration and public participation to foster conservation, protection and enhancement of the North American environment for the benefit of present and future generations, in the context of increasing economic, trade, and social links among Canada, Mexico, and the United States.

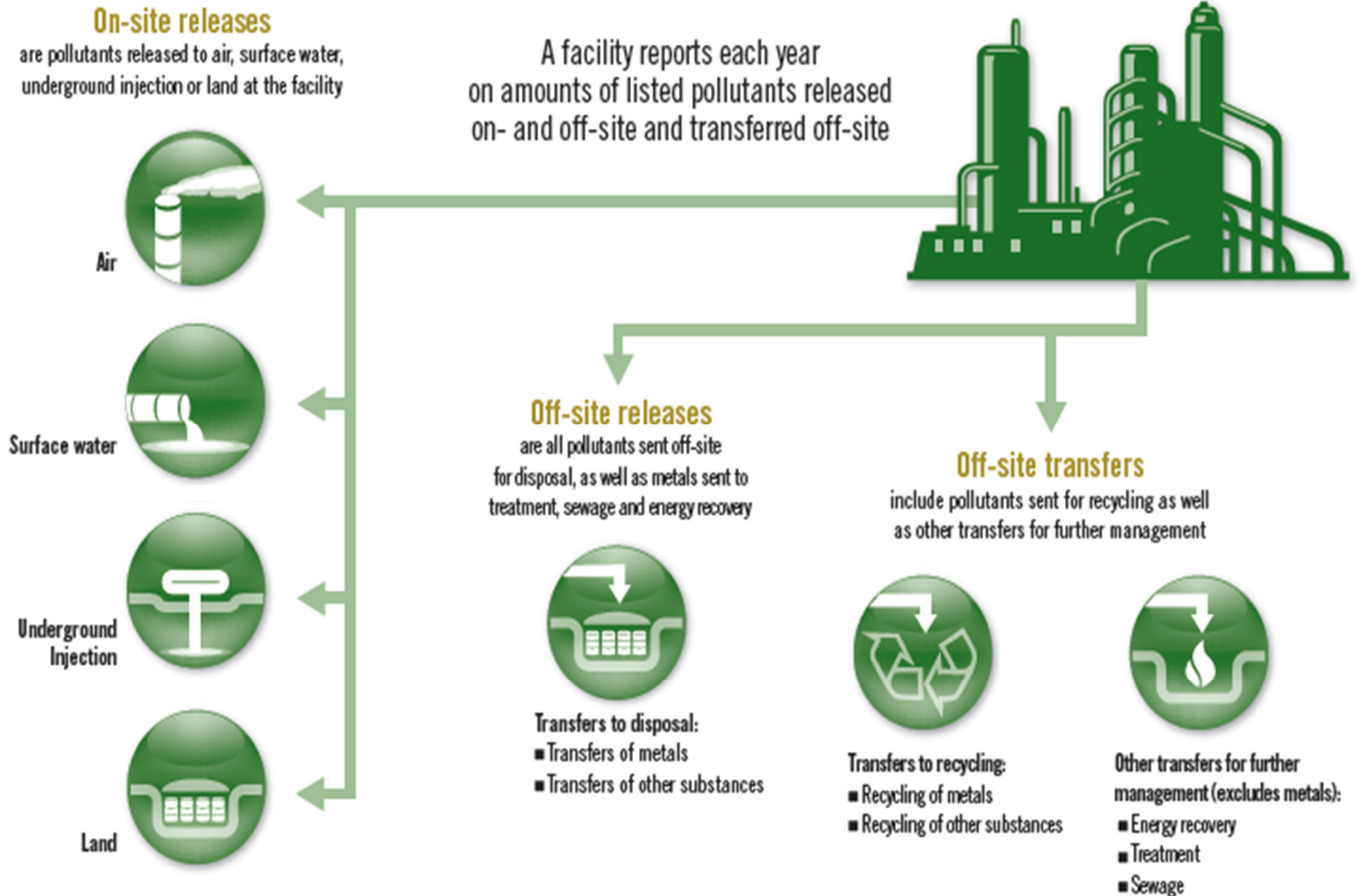
Exploring Industrial Pollutants Releases and Transfers (PRTR) in Border Regions

- **What is a Pollutant Releases and Transfers Register (PRTR)?**
- **What is the CEC's North American PRTR Project?**
- **Other Information Resources and Tools**
- **Using *Taking Stock Online* to explore and understand PRTR data reported by industrial facilities in border areas.**



cec.org

What is a PRTR?



Benefits of PRTRs

- Increase the public's knowledge of, and access to, information on industrial pollutants in their communities
- Support the identification and assessment of possible risks to humans and the environment
 - Children's health, vulnerable populations
- Promote improved corporate decision-making & pollution prevention
- Promote improved government planning & regulation
- Enable planning for emergency response



cec.org

Limitations of PRTRs – Information NOT included:

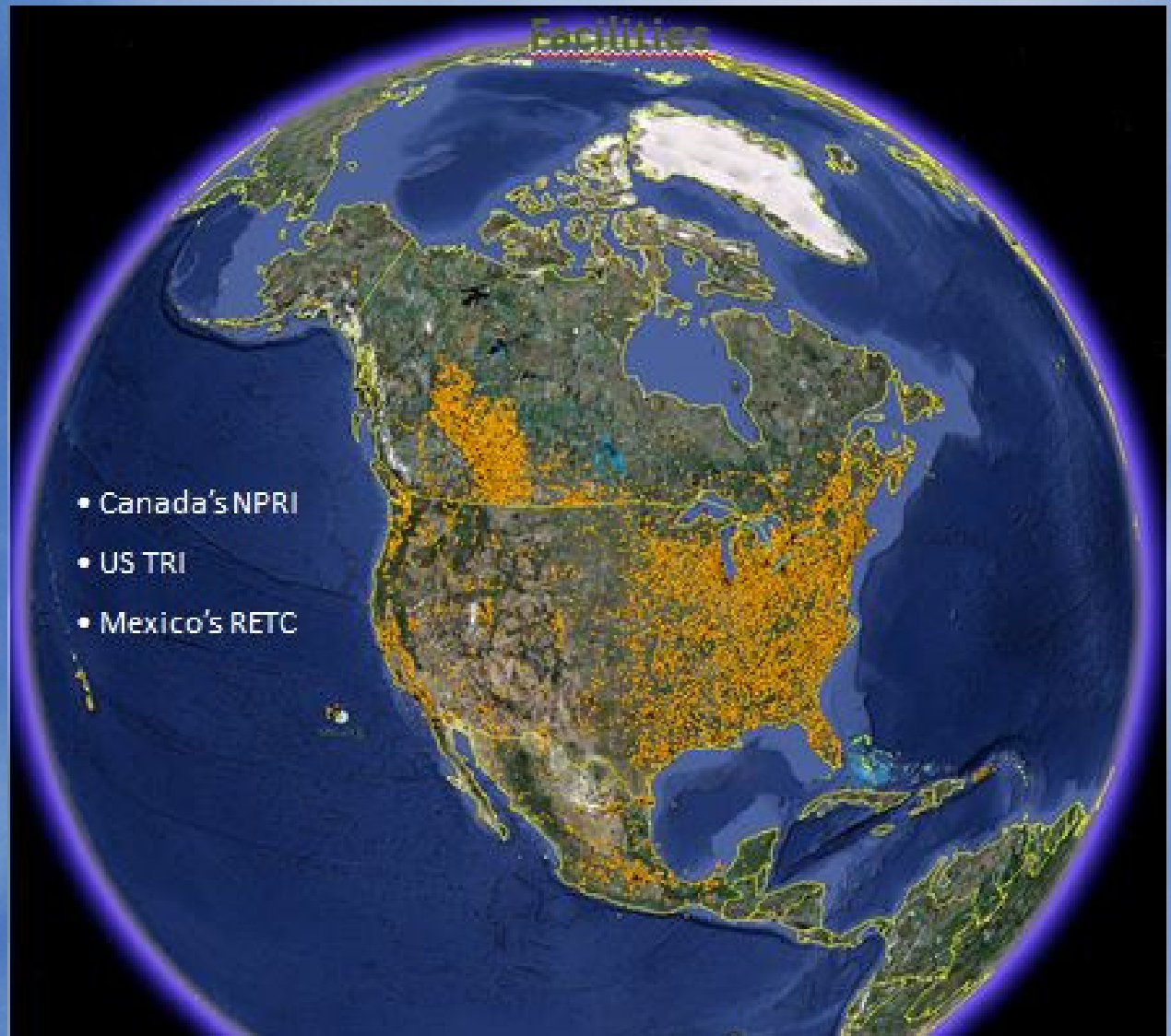
- Pollutants released deliberately (e.g., pesticides)
- All potentially harmful substances (subject to reporting)
- Pollutants released from: mobile sources; natural sources; exempt sources
- Data on the toxicity and potential health effects
- Information on exposures to humans or the environment from pollution.



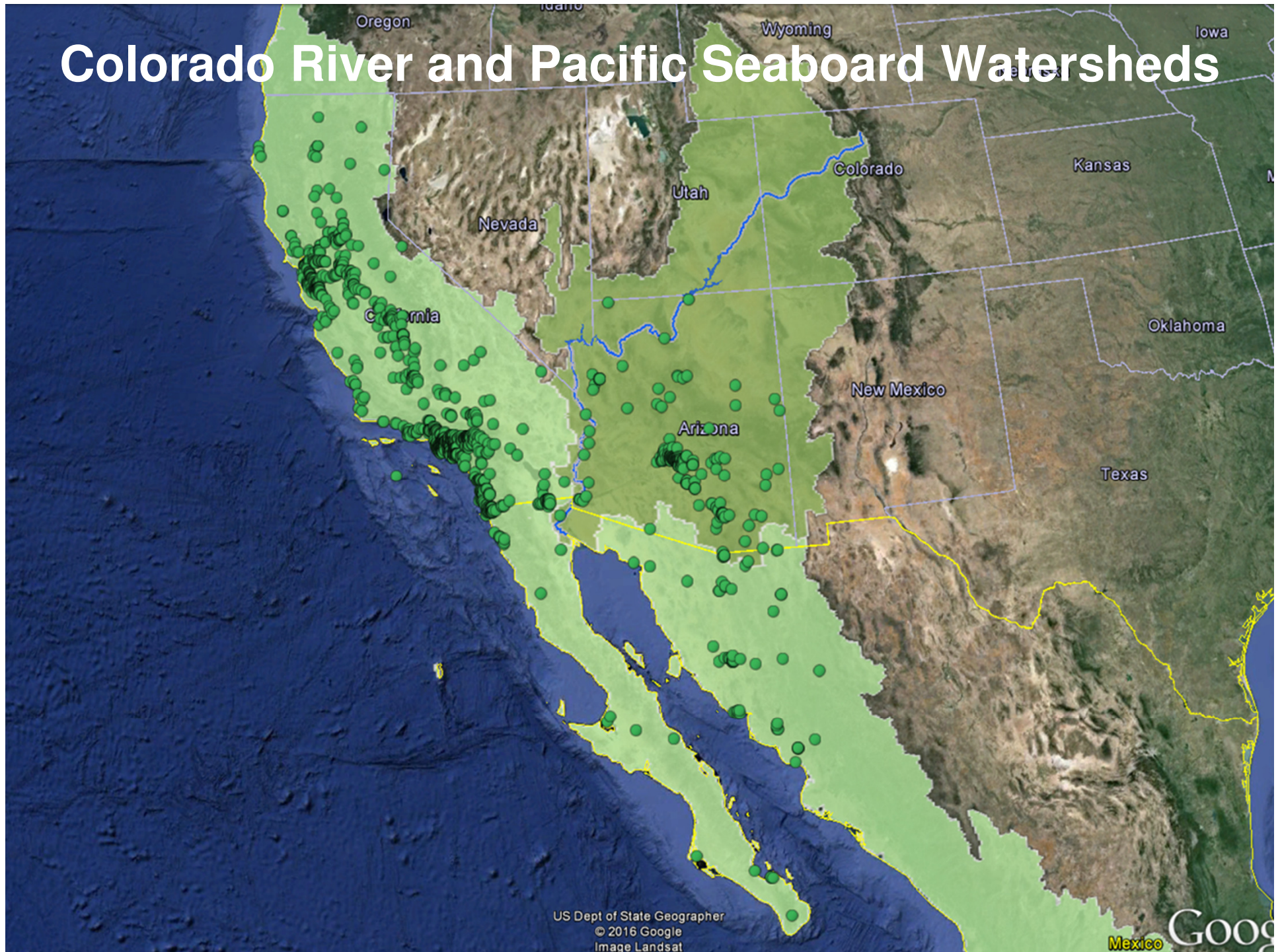
cec.org

North American PRTR Project

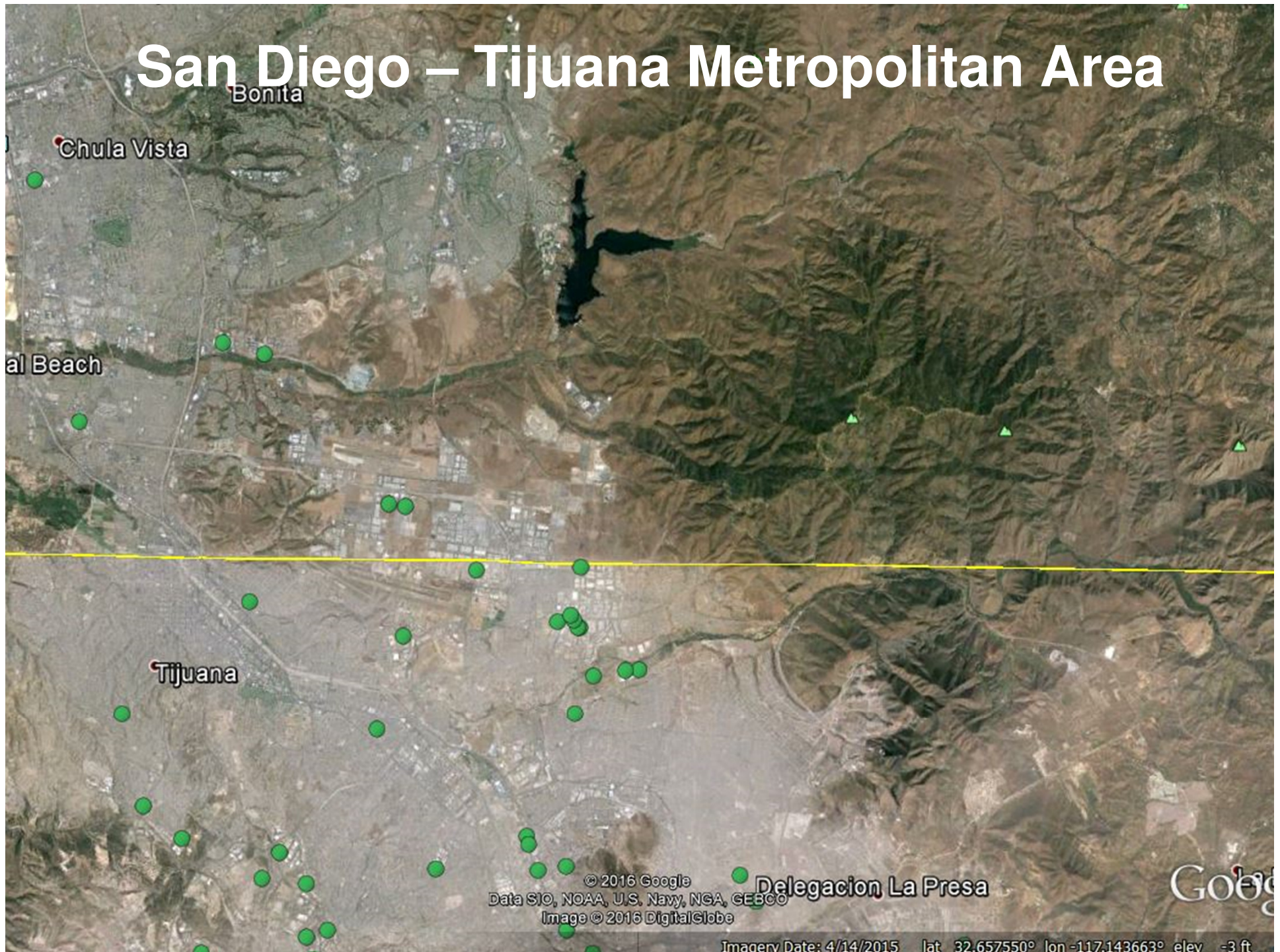
- ✓ Increase access to information, awareness and understanding of the sources and handling of pollutants of common concern across North America
- ✓ Improve the comparability of PRTRs in North America
- ✓ Support decision-making at all levels (communities, industry, governments) relative to pollution prevention and reduction



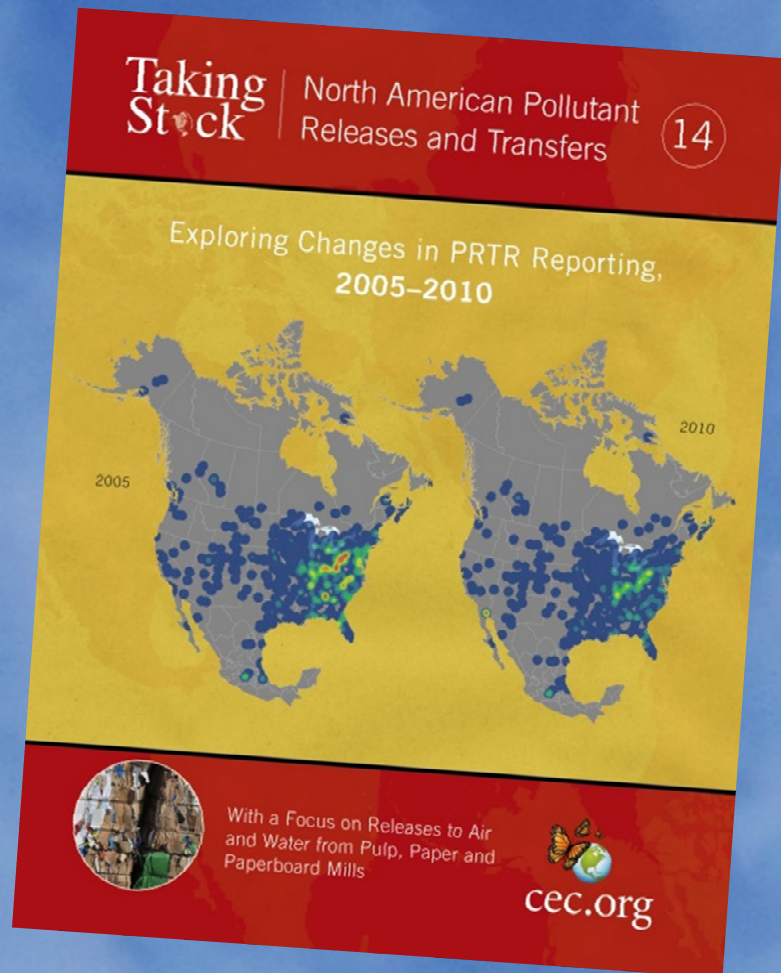
Colorado River and Pacific Seaboard Watersheds



San Diego – Tijuana Metropolitan Area



Access to Complete and Comparable Information for North America



TAKING STOCK ONLINE NORTH AMERICAN INDUSTRIAL POLLUTION

Taking Stock Online is a portal for users to explore North American Pollutant Release and Transfer Register (PRTR) data through several interactive tools, or through comprehensive reports.

New: Industrial pollution data for 2012

Taking Stock Online Tools



SEARCH THE DATABASE

Query industrial facility data by year, location, pollutant, sector, or type of release or transfer.



CROSS-BORDER TRANSFERS

View transfers of PRTR substances across North American borders.



SUMMARY CHARTS

Create your own charts and graphs displaying release and transfer data.

www.cec.org/takingstock



CEC Information Tools

- ✓ North American Environmental Atlas
- ✓ CEC Virtual Library

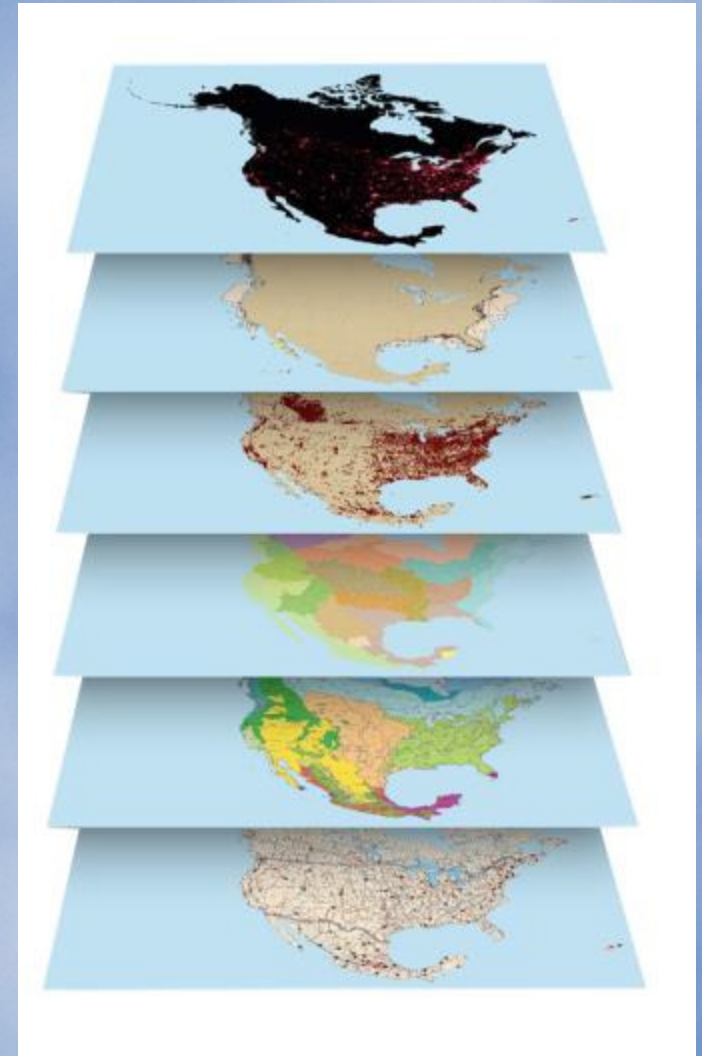


Climate change Pollutants Ecosystems Green economy Enforcement

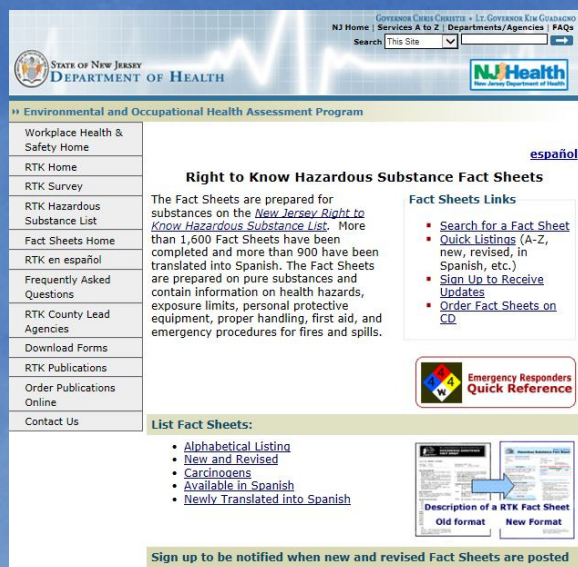
Toxic Chemicals and Children's Health in North America
A Call for Efforts to Determine the Sources, Levels of Exposure, and Risks That Industrial Chemicals Pose to Children's Health
Project publication - May 17, 2006 - Commission for Environmental Cooperation
Details

Children's Health and the Environment in North America
A First Report on Available Indicators and Measures
Project publication - Jan 26, 2006 - Commission for Environmental Cooperation
Details

Download PDF: (5.29 MB)
A Framework Document: Factors to Consider in Characterizing Vulnerability to Environmental Contamination Across North America
Project publication - Apr 17, 2014 - Commission for Environmental Cooperation
Details



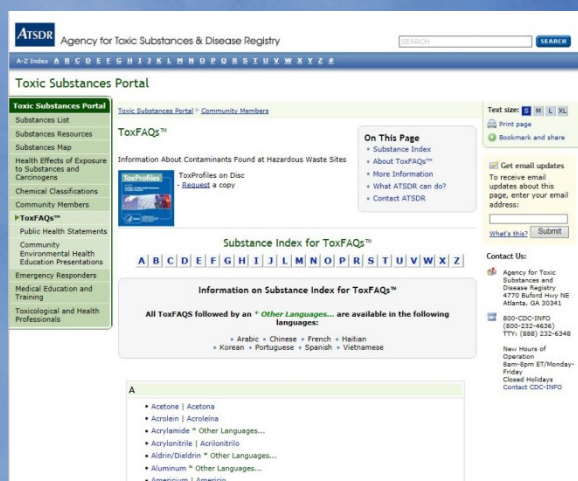
Information Sources about Toxic Substances



The screenshot shows the New Jersey Department of Health website. The main heading is "Right to Know Hazardous Substance Fact Sheets". Below this, it states: "The Fact Sheets are prepared for substances on the [New Jersey Right to Know Hazardous Substance List](#). More than 1,600 Fact Sheets have been completed and more than 900 have been translated into Spanish. The Fact Sheets are prepared on pure substances and contain information on health hazards, exposure limits, personal protective equipment, proper handling, first aid, and emergency procedures for fires and spills." To the right, under "Fact Sheets Links", there are links for "Search for a Fact Sheet", "Quick Listings (A-Z, new, revised, in Spanish, etc.)", "Sign Up to Receive Updates", and "Order Fact Sheets on CD". Below this is a section for "List Fact Sheets:" with links for "Alphabetical Listing", "New and Revised", "Carcinogens", "Available in Spanish", and "Newly Translated into Spanish". At the bottom, there is a sign-up box: "Sign up to be notified when new and revised Fact Sheets are posted".

ToxFAQs, US Agency for Toxic Substances and Disease Registry

www.atsdr.cdc.gov/toxfaq/index.asp



The screenshot shows the ATSDR website's "Toxic Substances Portal". It features a search bar at the top. Below the search bar, there is a "ToxFAQs™" section with a link to "Information About Contaminants Found at Hazardous Waste Sites". To the right of this is a "Substance Index for ToxFAQs™" with a grid of letters A through Z. Below the index, it states: "All ToxFAQs followed by an * Other Languages... are available in the following languages: Arabic • Chinese • French • Italian • Korean • Portuguese • Spanish • Vietnamese". At the bottom, there is a list of substances under the letter 'A', including Acetone, Acetone, Acrolein, Acrolein, Acrylamide, Acrylamide, Acrylonitrile, Aldrin/Dieldrin, Aluminum, and Americium.

Right-to-Know Hazardous Substances Fact Sheets, State of New Jersey's Department of Health

<http://web.doh.state.nj.us/rtkhsfs/indexFs.aspx>



Exploring PRTR Data in Border Regions

- ✓ How much pollution is emitted (reported)?
- ✓ What are the current sources of pollutants nearby?
- ✓ What pollutants are emitted (reported)?
- ✓ What are their associated health risks?

TAKING STOCK ONLINE
NORTH AMERICAN INDUSTRIAL POLLUTION
Taking Stock Online is a portal for users to explore North American Pollutant Release and Transfer Register (PRTR) data through several interactive tools, or through comprehensive reports.

New: Industrial pollution data for 2012

Taking Stock Online Tools


SEARCH THE DATABASE
Query industrial facility data by year, location, pollutant, sector, or type of release or transfer.

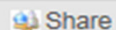

CROSS-BORDER TRANSFERS
View transfers of PRTR substances across North American borders.


SUMMARY CHARTS
Create your own charts and graphs displaying release and transfer data.

www.cec.org/takingstock



Search the Database

[Full Page](#)[Wizard](#)

REPORT TYPE

- ☐ **Facility Report:** Names and locations of facilities that reported releases and transfers. [Learn more](#)
- ☐ **Industry Report:** Releases and transfers reported by a particular industry or industries. [Learn more](#)
- ☐ **Country Report:** Reported releases and transfers in the selected country(ies). [Learn more](#)
- ☒ **State/Province/Territory Report:** Reported releases and transfers by state, province or territory in the country(ies) selected. [Learn more](#)
- ☐ **Pollutant Report:** Pollutants reported released and transferred. [Learn more](#)

* For air and water releases, check the "TEP values" box to see the risk scores available for certain pollutants.

Ungroup results based on: ☒ Pollutant

YEAR

☒ 2012 ☐ 2011 ☐ 2010 ☐ 2009 ☐ 2008 ☐ 2007 ☐ 2006 ☐ 2005

LOCATION

COUNTRY

☐ All Countries ☐ Canada ☒ Mexico ☒ United States

STATE/PROVINCE/TERRITORY (88)

☒ Arizona
☐ Arkansas
☒ Baja California
☒ Baja California Sur
☒ California
☐ Campeche
☐ Chiapas

POLLUTANT

[Search the Database](#)[Cross-border Transfers](#)[Summary Charts](#)[Using and Understanding Taking Stock](#)

QUERY SUMMARY

Report Type

- State/Province/Territory
- Ungroup by: Pollutant

Year

- 2012

Location

- Country
 - Mexico
 - United States
- State/Province/Territory
 - Arizona
 - Baja California
 - Baja California Sur
 - California
 - Sonora

Pollutant

- Common: False
- Pollutant Type
 - Known or Suspected Carcinogens **C**
- Pollutant
 - All Pollutants
- Units of Measurement
 - Kilograms (kg)

Industry

- NAICS: NAICS-4
- Industry
 - All Industries

Release and Transfer Types

- On-site air emissions
- On-site surface water discharges

REPORT TYPE

- ☐ **Facility Report:** Names and locations of facilities that reported releases and transfers. [Learn more](#)
- ☐ **Industry Report:** Releases and transfers reported by a particular industry or industries. [Learn more](#)
- ☐ **Country Report:** Reported releases and transfers in the selected country(ies). [Learn more](#)
- ☒ **State/Province/Territory Report:** Reported releases and transfers by state, province or territory in the country(ies) selected. [Learn more](#)
- ☐ **Pollutant Report:** Pollutants reported released and transferred. [Learn more](#)

For air and water releases, check the "TEP values" box to see the risk scores available for certain pollutants.

Ungroup results

YEAR

☒ 2012 ☐ 2013

LOCATION

COUNTRY

☐ All Countries

STATE/PROVINCE

- ☒ Arizona
- ☐ Arkansas
- ☒ Baja California
- ☒ Baja California Sur
- ☒ California
- ☐ Campeche
- ☐ Chiapas

Toxic Equivalency Potentials (TEP) for Air and Water Releases

Toxic Equivalency Potentials (TEPs) indicate the relative human health risk associated with a release of one unit of a pollutant, compared to the risk posed by the release of one unit of a reference substance. TEPs are calculated using the CalTOX model, developed by California regulatory agencies. TEPs are one of many different screening tools, each of which is based on a series of assumptions, thus yielding different results.

Readers should note that the TEP analysis is limited in that a release does not directly correlate to actual exposures or levels of risk. In addition, not all of the substances have an assigned TEP (information on their toxicity or exposure potential may be missing). While these pollutants are not ranked by TEP, they should not be assumed to be without risk. Other types of releases not ranked by TEP (e.g., land) should also not be assumed to be without risk.

TEPs are available only for air and water releases. The reference chemical for carcinogens is benzene and the reference chemical for non-carcinogens is toluene. In the Taking Stock report and database, the TEP weight is multiplied by the amount of release to provide a score for each pollutant. The TEPs for Taking Stock have been taken from the [Scorecard website](#)

Search the Database

Cross-border Transfers

Summary Charts

Using and Understanding Taking Stock

Search Taking Stock

QUERY SUMMARY

Report Type

- State/Province/Territory
- Ungroup by: Pollutant

Year

- 2012

- Units of Measurement
 - Kilograms (kg)

Industry

- NAICS: NAICS-4
- Industry
 - All Industries

Carcinogens C

▶ Report Type: State/Province/Territory
 ▶ Ungroup by: Pollutant
 ▶ Year: 2012
 ▶ Country: Mexico, United States
 ▶ State/Province/Territory: Arizona, Baja California, Baja California Sur, California, Sonora
 ▶ Common Dataset: False
 ▶ Pollutant Type: Known or Suspected Carcinogens **c**
 ▶ Pollutant: All Pollutants
 ▶ Units of Measurement: Kilograms (kg)
 ▶ NAICS: NAICS-4
 ▶ Industry: All Industries

Apply

- The tool also allows you to 'drill down' to view additional information. For example, click on the name of a facility and you will get an overview of that facility's data.
- Click on column headers to sort data accordingly.
- Click and drag column headers to resize columns.



Show/Hide Columns

Breakdown By State/Province/Territory

	State/Province/Territory	Country	Pollutant	CAS Number	On-site air emissions 2012 (kg)	On-site surface water discharges 2012 (kg)
1	California	United States	Styrene	100-42-5	370,249.76	0.00
2	Baja California	Mexico	Styrene	100-42-5	331,896.19	—
3	Arizona	United States	Styrene	100-42-5	86,036.39	0.00
4	Sonora	Mexico	Formaldehyde	50-00-0	39,941.91	—
5	California	United States	Tetrachloroethylene	127-18-4	35,166.26	1.36
6	Baja California	Mexico	Trichloroethylene	79-01-6	34,022.00	1,410.00
7	California	United States	Ethylbenzene	100-41-4	28,764.10	10.36
8	California	United States	Dichloromethane	75-09-2	27,629.95	0.45
9	Baja California	Mexico	Dichloromethane	75-09-2	26,182.96	—
10	California	United States	Benzene	71-43-2	21,925.60	1,331.75
Total for this page					1,001,815.12	2,753.93

Show/Hide Columns Export

Page 1 of 14

View 1 - 10 of 134

Share

Ungroup by: None

► Year: 2012

Country: Mexico, United States

State/Province/Territory: Baja California

Common Dataset: False

Pollutant Type: Known or Suspected Carcinogens **C**

Pollutant: All Pollutants

► Units of Measurement: Kilograms (kg)

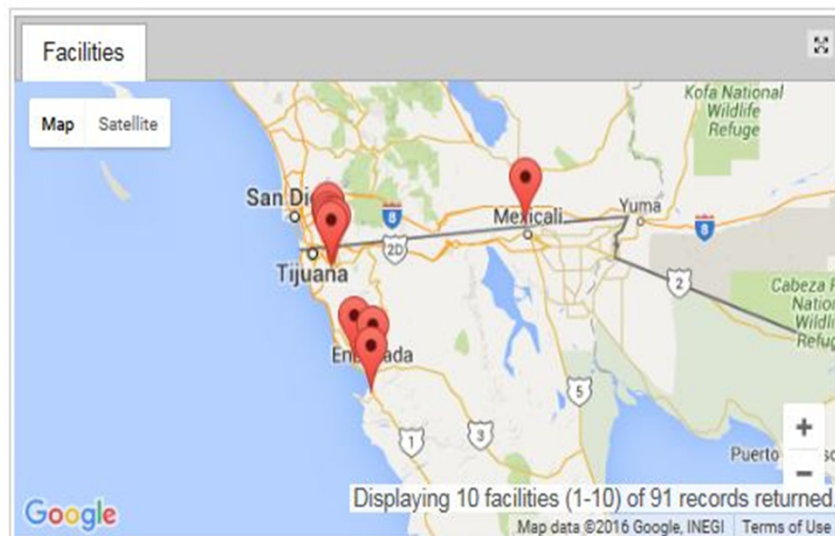
► NAICS: NAICS-4

Industry: All Industries

[Back to Results](#)

Apply

- The tool also allows you to 'drill down' to view additional information. For example, click on the name of a facility and you will get an overview of that facility's data.
- Click on column headers to sort data accordingly.
- Click and drag column headers to resize columns.



Show/Hide Columns

Breakdown By Facility

	Facility	PRTR ID	City	State/Province/Territory	Country	On-site air emissions	On-site surface water discharges
						2012 (kg) ↕	2012 (kg)
1	Rsi Home Products , S De R.L De C.V.. 	RHPMQ0200411	El Florido	Baja California	Mexico	159,481.43	--
2	Kenfabrica S.A De C.V 	KEN9G0200211	Mexicali	Baja California	Mexico	158,486.75	0.00
3	Pulidos Industriales S.A. De C.V. 	PIN8A0200412	Cd. Ind. Nueva Tijuana	Baja California	Mexico	27,330.00	--
4	Continental Structural Plastics De Tijuana S. De R. L. De C. 	CSP520200411	Tijuana	Baja California	Mexico	16,300.00	--
5	Jeld Wen De Mexico, S.A. De C.V. 	JWM6Y0200411	El Florido	Baja California	Mexico	15,434.81	--
6	Platinadora Baja Sa De Cv 	PBA8A0200411	Tijuana	Baja California	Mexico	6,692.00	--
7	Augen Opticos, Sa De Cv 	AOP9X0200111	El Sauzal	Baja California	Mexico	5,800.00	--
8	Icu Medical De Mexico S.A. De C.V. 	IMM1C0200111	Rancho Santa Clara	Baja California	Mexico	4,408.96	--
9	Cemex Mexico Sa De Cv Planta Ensenada 	CMEK90200111	Carlos Pacheco	Baja California	Mexico	2,868.66	--
10	Carl Zeiss Vision Manufactura De Mexico S De R.L De C.V. 	CZV6E0200411	Padre Kino	Baja California	Mexico	2,081.00	--
	Total for this page					308,883.61	0.00

Report Type: State/Province/Territory (drilldown)

Ungroup by: None

Year: 2012

Country: Mexico, United States

State/Province/Territory: Baja California

Common Dataset: False

Pollutant Type: Known or Suspected Carcinogens c

Pollutant: All Pollutants

Units of Measurement: Kilograms (kg)

NAICS: NAICS-4

Industry: All Industries

Back to Results

Apply

- The tool also allows you to 'drill down' to view additional information. For example, click on the name of a facility and you will get an overview of that facility's data.
- Click on column headers to sort data accordingly.
- Click and drag column headers to resize columns.

Show/Hide Columns

Breakdown By Facility

	Facility	PRTR ID	City				On-site air emissions 2012 (kg)	On-site surface water discharges 2012 (kg)
1	Rsi Home Products , S De R.L De C.V..	RHPMQ0200411	El Florido				159,481.43	--
2	Kenfabrica S.A De C.V.	KEN9G0200211	Mexicali				158,486.75	0.00
3	Pulidos Industriales S.A. De C.V.	PIN8A0200412	Cd. Ind. Nueva Tiju				27,330.00	--
4	Continental Structural Plastics De Tijuana S. De R. L. De C.	CSP520200411	Tijuana				16,300.00	--
5	Jeld Wen De Mexico, S.A. De C.V.	JWM6Y0200411	El Florido	Baja California	Mexico		15,434.81	--
6	Platinadora Baja Sa De Cv	PBA8A0200411	Tijuana	Baja California	Mexico		6,692.00	--
7	Augen Opticos, Sa De Cv	AOP9X0200111	El Sauzal	Baja California	Mexico		5,800.00	--
8	Icu Medical De Mexico S.A. De C.V.	IMM1C0200111	Rancho Santa Clara	Baja California	Mexico		4,408.96	--
9	Cemex Mexico Sa De Cv Planta Ensenada	CMEK90200111	Carlos Pacheco	Baja California	Mexico		2,868.66	--
10	Carl Zeiss Vision Manufactura De Mexico S De R.L De C.V.	CZV6E0200411	Padre Kino	Baja California	Mexico		2,081.00	--
Total for this page							398,883.61	0.00

Show/Hide Columns Export

Page 1 of 10

View 1 - 10 of 91

Facilities

Map Satellite

Google

Excel
Tab Delimited
Comma Delimited
KML
KMZ

Release and Transfer Types

- ☐ Total Releases and Transfers
☐ Total - On-site Releases
☒ On-site air emissions
☐ On-site surface water discharges
☐ On-site underground injection
☐ On-site land releases
☐ Total - Off-site Releases to disposal
☐ Off-site releases to disposal (except

☐ Include values of zero?

OK

Cancel



Commission for Environmental Cooperation
Comisión para la Cooperación Ambiental
Commission de coopération environnementale

**Rsi Home Products , S De R.L De
C.V..**

Blvd. Heroes De La Independencia,
11402
El Florido, Baja California
Mexico



PRTR ID: RHPMQ0200411
[Taking Stock Online Facility Data Report](#)
On-site air emissions:
2012: 159481.43 kg

[RETC 2012 Facility Data](#)

[About this Map](#)

© 2016 INEGI
© 2016 Google

Image © 2016 DigitalGlobe

Go

For more information:

Orlando Cabrera-Rivera
Program Manager,
Environmental Quality and Climate Change

Telephone: (514) 350-4300

Fax: (514) 350-4314

Email: ocabrera@cec.org

www.cec.org

Three Countries. One Environment



cec.org