



Identifying Industrial Users - Tools Available to POTWs

A review of TPDES permit application requirements for POTWs & overview of tools for identifying industrial users

TCEQ Environmental Trade Fair & Conference

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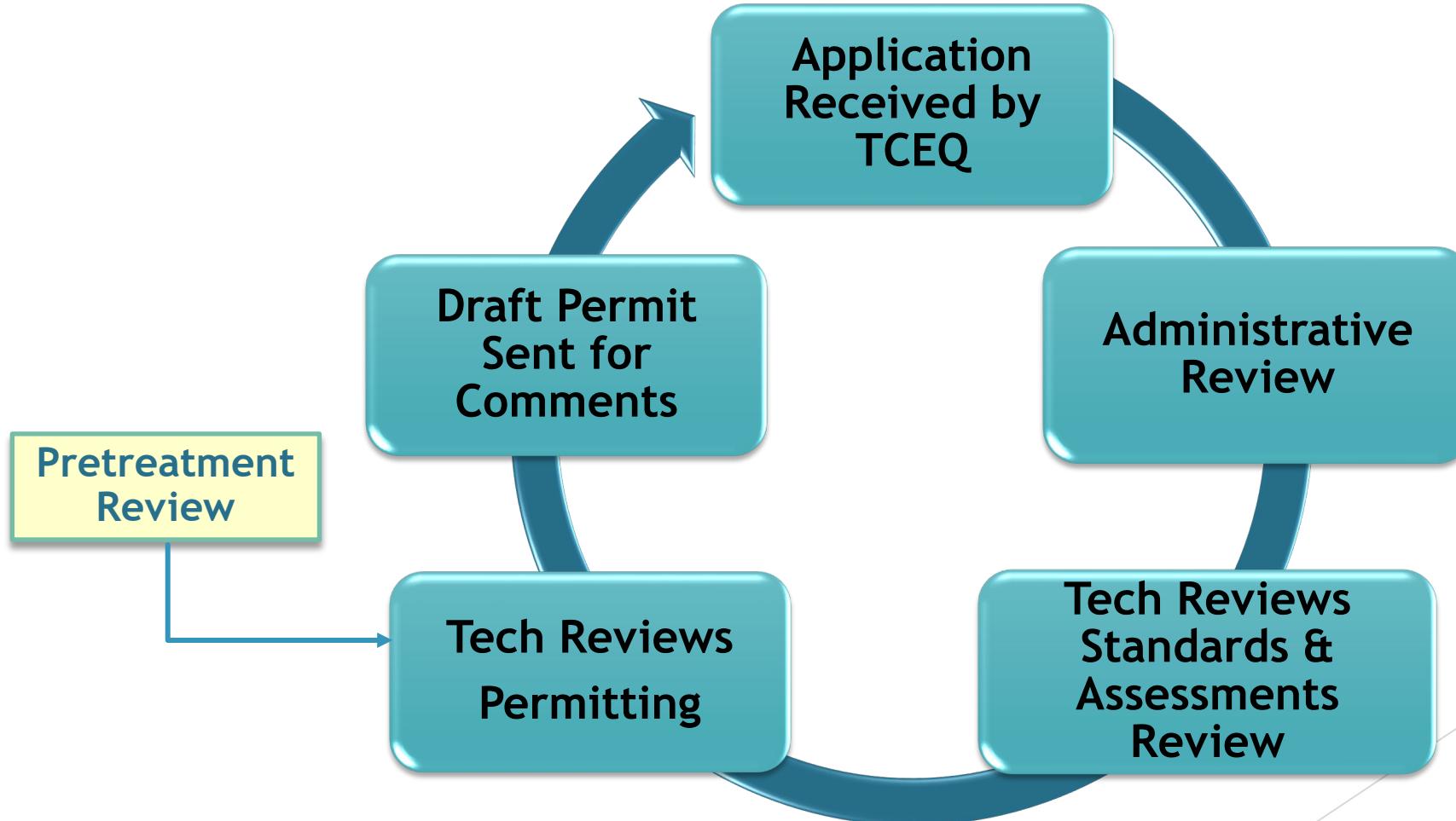
Introduction

All publicly owned treatment works (POTWs) that discharge to a waterbody of Texas, must apply for a Texas Pollutant Discharge Elimination System (TPDES) permit.

The application to discharge wastewater goes through a series of administrative and technical reviews before a permit is written and issued.



TPDES Permitting Process





Pretreatment Review - Domestic Worksheet 6.0

- All POTWs must complete Worksheet 6.0 as part of their TPDES permit application
- Include Significant Industrial Users (SIUs), Categorical Industrial Users (CIUs), and other IUs discharging to the POTW
- Permit requirements based on total number of SIUs/CIUs, average process flow, and other information

Worksheet 6.0 - Industrial Users & Interference

Section 1.A:

Use results from water billing records or IU surveys

CIUs, SIUs, or Other IUs:

Enter “0” or “None” if none are discharging.

Do not enter “N/A”

Section 1.B:

Interference in the sanitary sewer system or WWTP?

Include dates, duration, description of interference, and causes/sources

https://www.tceq.texas.gov/publications/search_forms.html

DOMESTIC WORKSHEET 6.0

INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works (POTWs)

Section 1. All POTWs (Instructions Page 99)

A. Industrial users

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs - non-categorical, and Other IUs.

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs:

Average Daily Flows, in MGD:

Significant IUs - non-categorical:

Number of IUs:

Average Daily Flows, in MGD:

Other IUs:

Number of IUs:

Average Daily Flows, in MGD:

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

Yes No

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

Worksheet 6.0 - Pass Through & Program

Section 1.C:

Pollutant pass through at the WWTP?

Include dates, duration, description of pollutants, and causes/sources

Section 1.D:

Does POTW have approved pretreatment program?

Yes - Move to Section 2 & skip Section 3

No - Answer next question

Is POTW required to develop approved pretreatment program?

Yes - Complete only Sections 2.C-2.D & skip Section 3

No - Skip Section 2 & complete Section 3

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

Yes No

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

Yes No

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 100)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18?

Yes No

If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

Worksheet 6.0 - Significant Industrial Users

Section 3:

SIUs and CIUs

Include required information for all SIUs and CIUs. Do not include Other IUs.

Section 3.B: Process Information

Provide as much detail as possible.



D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

Yes No

If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

[Redacted text area for industry and episode details.]

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 100)

A. General information

Company Name: [Redacted text area]

SIC Code: [Redacted text area]

Telephone number: [Redacted text area] Fax number: [Redacted text area]

Contact name: [Redacted text area]

Address: [Redacted text area]

City, State, and Zip Code: [Redacted text area]

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

[Redacted text area for process information description.]

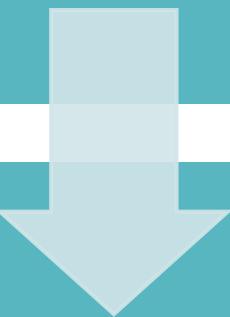
Worksheet 6.0 - Significant Industrial Users

Sections 3.C through 3.E:

Describe the product/
service, provide flow rates,
and applicable pretreatment
standards

Section 3.F: Industrial Interruptions

Describe any problems
caused by IUs in the last
three years, including
interference or pass through



C. Product and service information

Provide a description of the principal product(s) or services performed.

[Click here to enter text](#)

D. Flow rate information

See the Instructions for definitions of "process" and "non-process wastewater."

Process Wastewater:

Discharge, in gallons/day:

Discharge Type: Continuous Batch Intermittent

Non-Process Wastewater:

Discharge, in gallons/day:

Discharge Type: Continuous Batch Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the instructions?

Yes No

Is the SIU or CIU subject to categorical pretreatment standards found in 40 CFR Parts 405-471?

Yes No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category:

Subcategories:

Category:

Subcategories:

Category:

Subcategories:

Category:

Subcategories:

F. Industrial user interruptions

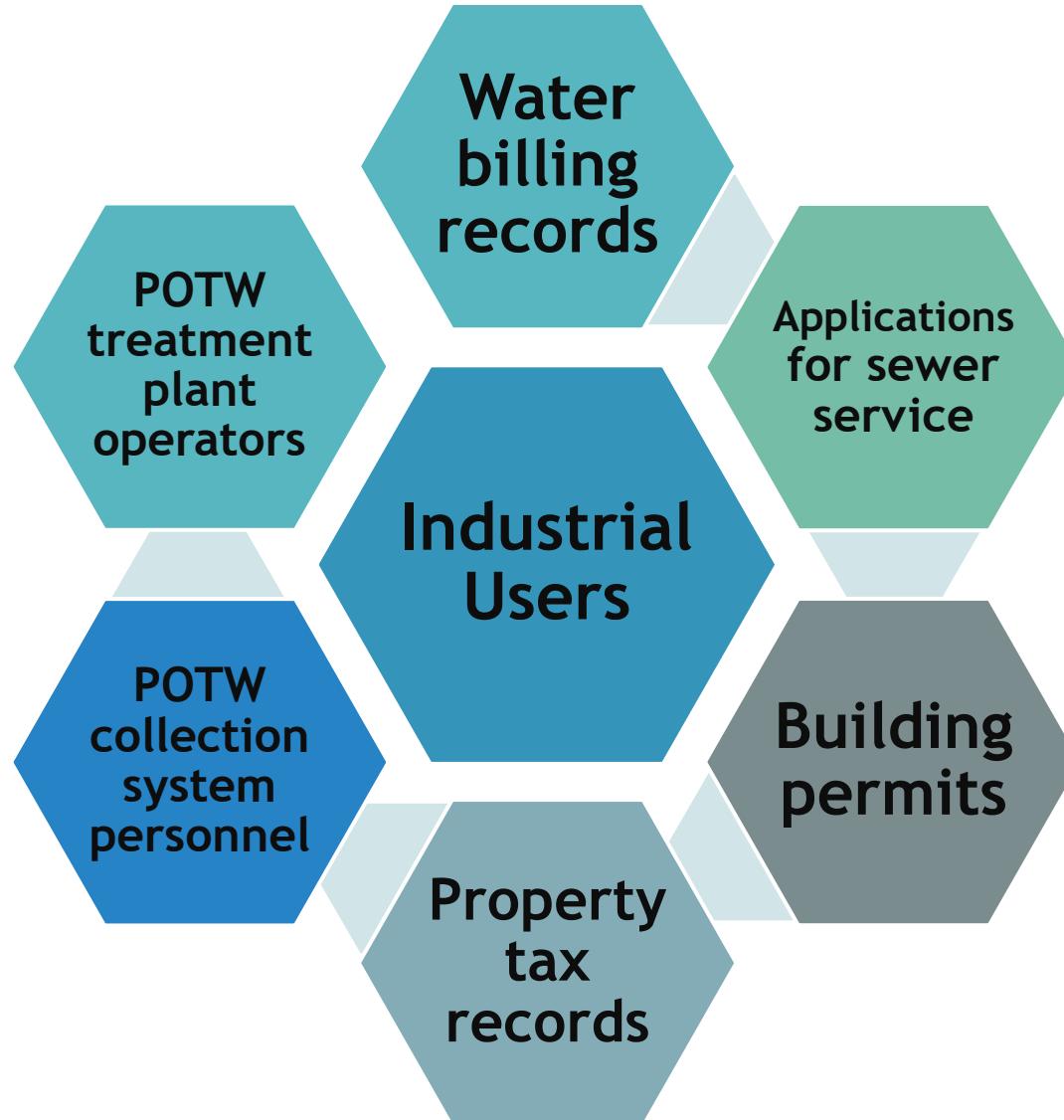
Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

Yes No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.



Industrial Users: Identification and Survey



How to Identify Industrial Users

How to Identify Industrial Users (cont.)

- Business and telephone directories
 - Texas Manufacturer's Directory
 - Chamber of Commerce records
- Economic Development organizations
- Direct observation (drive-by)
- Internet searches
 - ▶ Toxic Release Inventory (TRI)
www.epa.gov/ TRI/
 - ▶ EPA Envirofacts
www.epa.gov/ enviro/



Facility Types - Commonly Missed



Small metal plating facilities

- Metal Finishing (40 CFR Part 433)

Truck washing facilities

- Transportation & Equipment Cleaning (40 CFR Part 442)

Grease & Grit Processing facilities

- Centralized Waste Treatment (40 CFR Part 437)

Facilities with no categorical pretreatment standards

- Hospitals (40 CFR Part 460)
- Meat and Poultry Products (40 CFR Part 432)
- Industrial laundries & several others

Industrial User Survey

COMPILE MASTER LIST OF POTENTIAL IUs IN SERVICE AREA -
CONSIDER...



- IUs with high water usage
- IUs that might impact the POTW
- Standard Industrial Classification (SIC) code
- North American Industry Classification System (NAICS) code
- Compare SIC or NAICS codes to categories:
40 CFR Parts 405-471



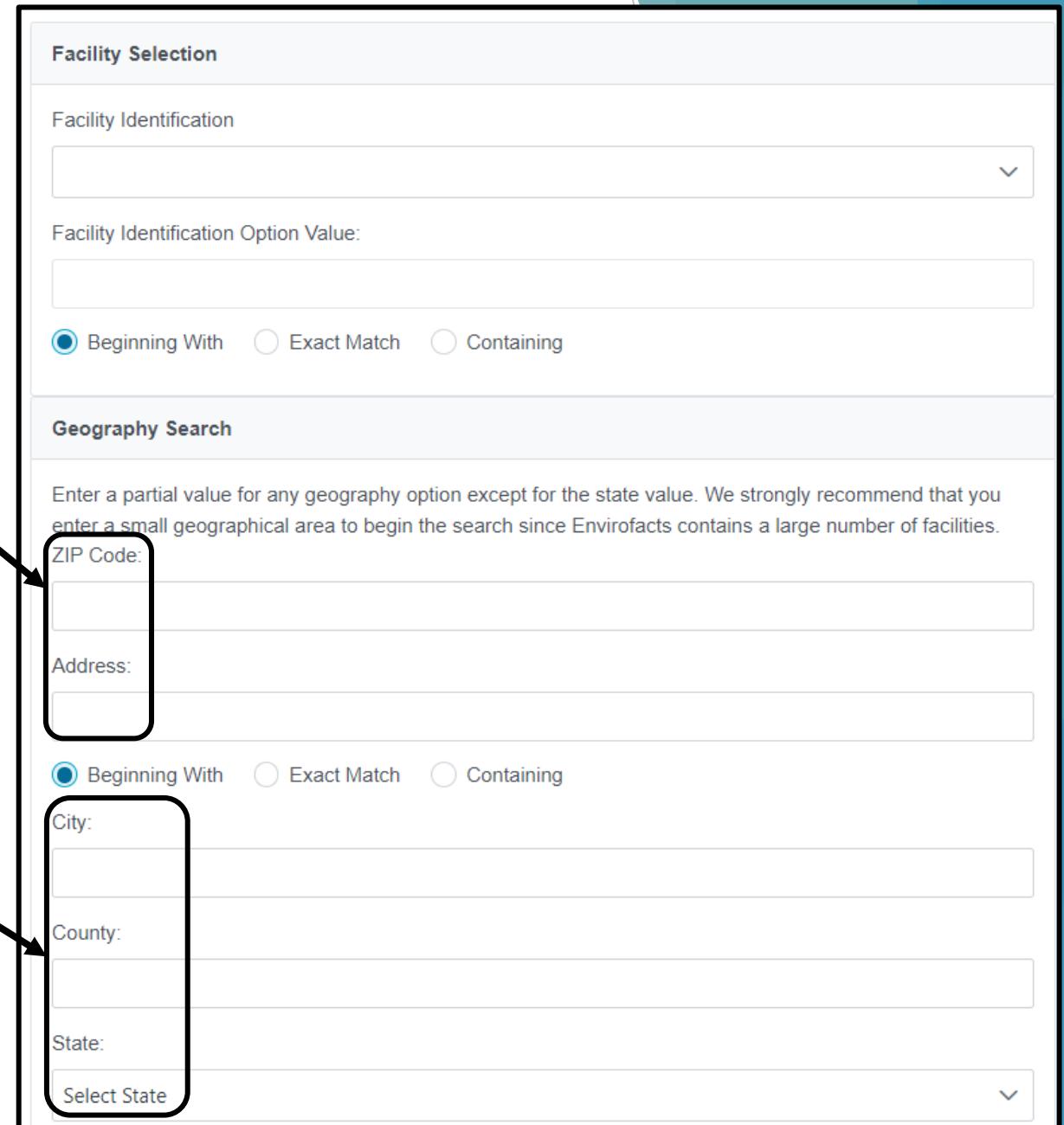
Industrial User Survey (cont.)

- ▶ Survey each IU to collect information
- ▶ Conduct follow-up inspections & calls
- ▶ Summarize data
- ▶ Maintain and update IU list

Identifying Hazardous Waste Generators in Your Area

<https://enviro.epa.gov/facts/rcriinfo/search.html>

1. Select Geography Search and enter information for: Zip Code, Address, City, County, and/or State.



Facility Selection

Facility Identification

Facility Identification Option Value:

Beginning With Exact Match Containing

Geography Search

Enter a partial value for any geography option except for the state value. We strongly recommend that you enter a small geographical area to begin the search since Envirofacts contains a large number of facilities.

ZIP Code:

Address:

Beginning With Exact Match Containing

City:

County:

State:

Select State

Hazardous Waste Generator Search

<https://enviro.epa.gov/facts/rcriinfo/search.html>

Active/Inactive Site Option

Active Sites Only
 Inactive Sites Only
 Both Active and Inactive Sites

Search Values

Use Multisystem facility information to perform facility search
 Use RCRAInfo facility information only to perform facility search

Search **Clear**

3. Click Search to generate the report.

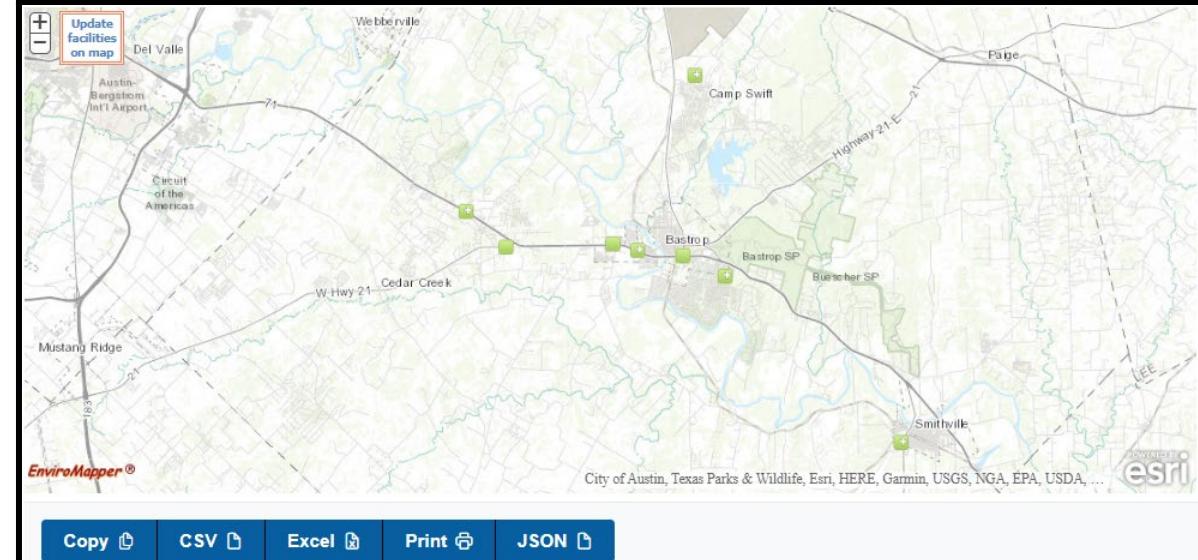
2. Select Search Value to use RCRAInfo only.

Only RCRAInfo facility information was searched to select facilities

County: bastrop

State: TX

Sites: Only Active



Copy **CSV** **Excel** **Print** **JSON**

HANDLER ID	NAME	STREET	CITY	COUNTY	STATE	ZIP CODE	LATITUDE/LONGITUDE
TXR000043794	AGILENT TECHNOLOGIES	1834 STATE HIGHWAY 71 W	CEDAR CREEK	BASTROP	TX	78612-3412	Latitude: 30.13523 Longitude: -97.45742
TXR000080375	ECORUN	332 TAHITIAN DR	BASTROP	BASTROP	TX	78602	Latitude: 30.08642 Longitude: -97.28367
TXR000082371	FAMILY DOLLAR #2466	242 HWY 290 W	ELGIN	BASTROP	TX	78621-3214	Latitude: 30.337778 Longitude: -97.37192

Waste Transfers to POTWs using the Toxic Release Inventory Explorer

<https://enviro.epa.gov/>

Envirofacts
Your one-stop source for Environmental Information

Data Update **Envirofacts Model** **Contact Us**

Get the EnviroFACTS!

Retrieve information from multiple sources of Envirofacts' System Data for your area of interest.

Enter a location such as address, zip, city, county, waterbody, park name, etc.

Topic Searches

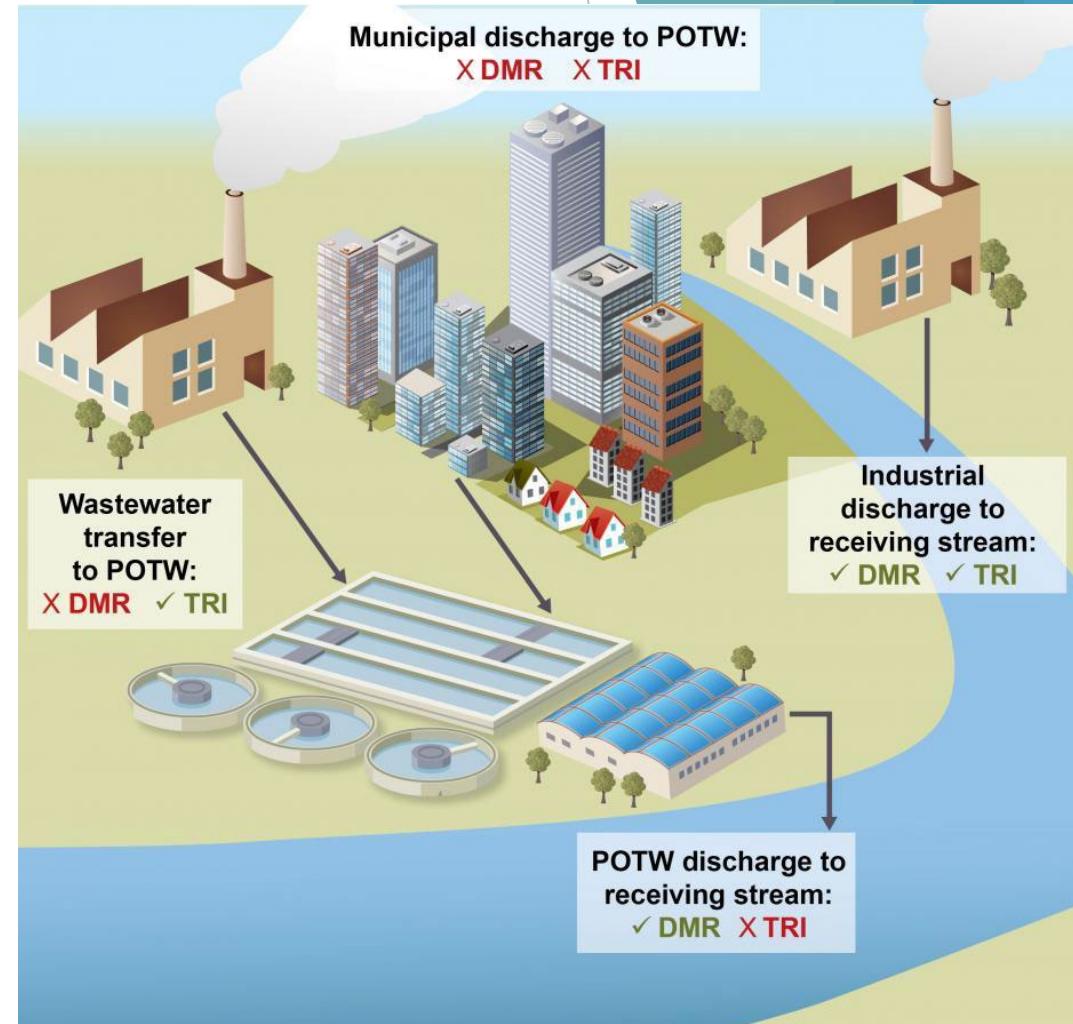
- Air
- Waste
- Facility
- Land
- Toxics
- Compliance
- Water
- Radiation
- Other

Envirofacts System Data Searches

- BR Brownfields-Cleanups
- FRS EZ Search
- Locational Information Locational Search
- RadNet Customized Search
- NEI
- NGGS
- PCS Customized Search
- ICIS-AIR
- ICIS EZ Search
- ICR Customized Search
- MyEnvironment
- MyProperty

Other Sites of Interest

- Geospatial Download
- EnviroMapper
- MyEnvironment
- MyProperty



TRI Waste Transfer Facility Search

https://enviro.epa.gov/triexplorer/tri_transfer.chemical

TRI Explorer
You are here: EPA Home » TRI » TRI Explorer » Waste Transfer Reports – Waste Transfer Facility Report

Waste Transfer Reports

Fact Sheets | Release Reports | **Waste Transfer Reports** | Waste Quantity Reports

Chemical | Facility | Federal Facility | Trends | Geography | Industry

Waste Transfer Facility Report i

This site uses pop-up windows. Click here to learn how to allow pop-ups from this site [Go To New Report](#)

Year of Data i
2020 ▼

Report Columns To Include i

Geographic Location i
All of United States ▼

Chemical i
All chemicals ▼

Industry i
All Industries ▼

Data Set i
The default is Data Source: 2020 National Analysis Dataset (October 2021, released October 2021)
 Select 2019 National Analysis Dataset (released October 2020)
 Select 2018 National Analysis Dataset (released November 12, 2019)

Landfills
 POTW Transfers – Other Releases
 POTW Transfers – Treatment
 Other Off-site Transfers (reported without a valid code)
 Transfers Off-site for Disposal or other Releases, not including transfers to POTWs Metals and Metal Compounds
 Total Transfers Off-site for further Waste Management

Generate Report

1. Select “Waste Transfer Reports” then “Facility” tabs.
2. Click on the Geographic Location drop-down, then select ZIP Code, State or a County.
3. Only select the last two “POTW Transfers”. Click on each box to select or deselect.
Note that “Total Transfers Off-site for further Waste Management” always remains selected.
4. Click Generate Report.

TRI Waste Transfer Facility Results

This particular facility transferred more than 238,000 pounds of Ammonia to a POTW in 2022.

Waste Transfer: Facility Report [i](#)

Data Source: 2022 Dataset (released October 2023)

TRI Transfers Off-site for Further Waste Management (in pounds), for all 1 facilities, for facilities in All Industries, for All chemicals, ZIP code 78754, 2022

Row #	Facility	POTW Transfers – Other Releases	POTW Transfers – Treatment	Total Transfers Off-site for Further Waste Management
1	SAMSUNG AUSTIN SEMICONDUCTOR.12100 SAMSUNG BLVD, AUSTIN TEXAS 78754 (TRAVIS)	198,588	594,025	1,462,793
	Ethylene glycol (334 Computers/Electronics Products)	68	776	285,655
	Propylene (334 Computers/Electronics Products)	.	.	3,310
	Hydrochloric acid (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size) (334 Computers/Electronics Products)	.	.	15,817
	Hydrogen fluoride (334 Computers/Electronics Products)	.	.	41,391
	Ammonia (334 Computers/Electronics Products)	159,054	238,582	415,604
	Sulfuric acid (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size) (334 Computers/Electronics Products)	.	.	0
	Nitric acid (334 Computers/Electronics Products)	.	.	15,319
	Fluorine (334 Computers/Electronics Products)	.	.	4,055
	Chlorine (334 Computers/Electronics Products)	.	.	2,588
	Ozone (334 Computers/Electronics Products)	.	.	0
	Boron trichloride (334 Computers/Electronics Products)	.	.	1,422
	Copper compounds (334 Computers/Electronics Products)	59	.	283,474
	Nitrate compounds (water dissociable; reportable only when in aqueous solution) (334 Computers/Electronics Products)	39,407	354,667	394,158
	Total	198,588	594,025	1,462,793

TRI Waste Transfer Facility Profile Report

Facility Profile Report

Data Source: 2022 Dataset (released October 2023)

See
Note

[Go To New Report](#)

TRI Facility Name: SAMSUNG AUSTIN SEMICONDUCTOR
Address: 12100 SAMSUNG BLVD, AUSTIN TEXAS 78754 (TRAVIS)
(Map by [Google](#), [Yahoo](#))
County: TRAVIS
Public Contact: NICHOLE EVE JAY
Phone Number: 346-257-7722
Public email: NICHOLE.JAY@SAMSUNG.COM

Forms Submitted to TRI in 2022 Reporting Year:

Form R (regular form): 13

Form A (certification form): 0

[Click here for TRI Reporting Forms in EPA Envirofacts database](#)

[Click here for the facility's TRI Pollution Prevention \(P2\) Report](#)

[Click here for the facility's Risk Screening Report](#)

North American Industry Classification System (NAICS) Code(s) in 2022 Reporting Year:

334413 – Semiconductor And Related Device Manufacturing (Primary)

Industry sector used in TRI Explorer analysis in 2022 Reporting Year:

334 – Computers/Electronics Products

Reported TRI Chemical Data

(in pounds, for all chemicals reported in 2022)

Total On-site Releases: 76,790

Total Off-site Releases: 284,246

Total Transfers Off-site for Further Waste Management: 1,462,793

Total Waste Managed: 7,299,227

Section 6. Transfers of the Toxic Chemical in Wastes to Off-Site Locations

6.1 [Discharges to Publicly Owned Treatment Works \(POTWs\)](#)

1 - <u>NAME</u> : WALNUT CREEK WWTP	<u>ADDRESS</u> : 7113 EAST FM 969
<u>CITY</u> : AUSTIN	<u>STATE</u> : TX
<u>COUNTY</u> : JEFFERSON	<u>ZIP CODE</u> : 78724



TPDES Permit: Pretreatment Options

TPDES Pretreatment Permit Language

Option 1

POTWs *not required* to have an approved pretreatment program

Option 2

POTWs are required to conduct an industrial user survey (IUS) and *may be required* to develop a pretreatment program

TPDES Pretreatment Permit Conditions

Option 1

- No approved pretreatment program
- No development of a pretreatment program
- No SIUs/CIUs (most POTWs)

Permit Language Requirements

- General and Specific Prohibitions
 - 40 CFR §403.5
- POTW notification requirements
 - New introduction of pollutants
 - Substantial changes in volume or character of wastewater to POTW
- Require any indirect discharger to:
 - Comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The following pollutants may not be introduced into the treatment facility:
 - a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit (60 degrees Celsius) using the test methods specified in 40 CFR §261.21;
 - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case shall there be discharges with pH lower than 5.0 standard units, unless the works are specifically designed to accommodate such discharges;
 - c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;
 - d. Any pollutant, including oxygen demanding pollutants (e.g., BOD), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;
 - e. Heat in amounts which will inhibit biological activity in the POTW resulting in Interference but in no case shall there be heat in such quantities that the temperature at the POTW treatment plant exceeds 104 degrees Fahrenheit (40 degrees Celsius) unless the Executive Director, upon request of the POTW, approves alternate temperature limits;
 - f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;
 - g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and
 - h. Any trucked or hauled pollutants, except at discharge points designated by the POTW.

Option 1 Permit Example

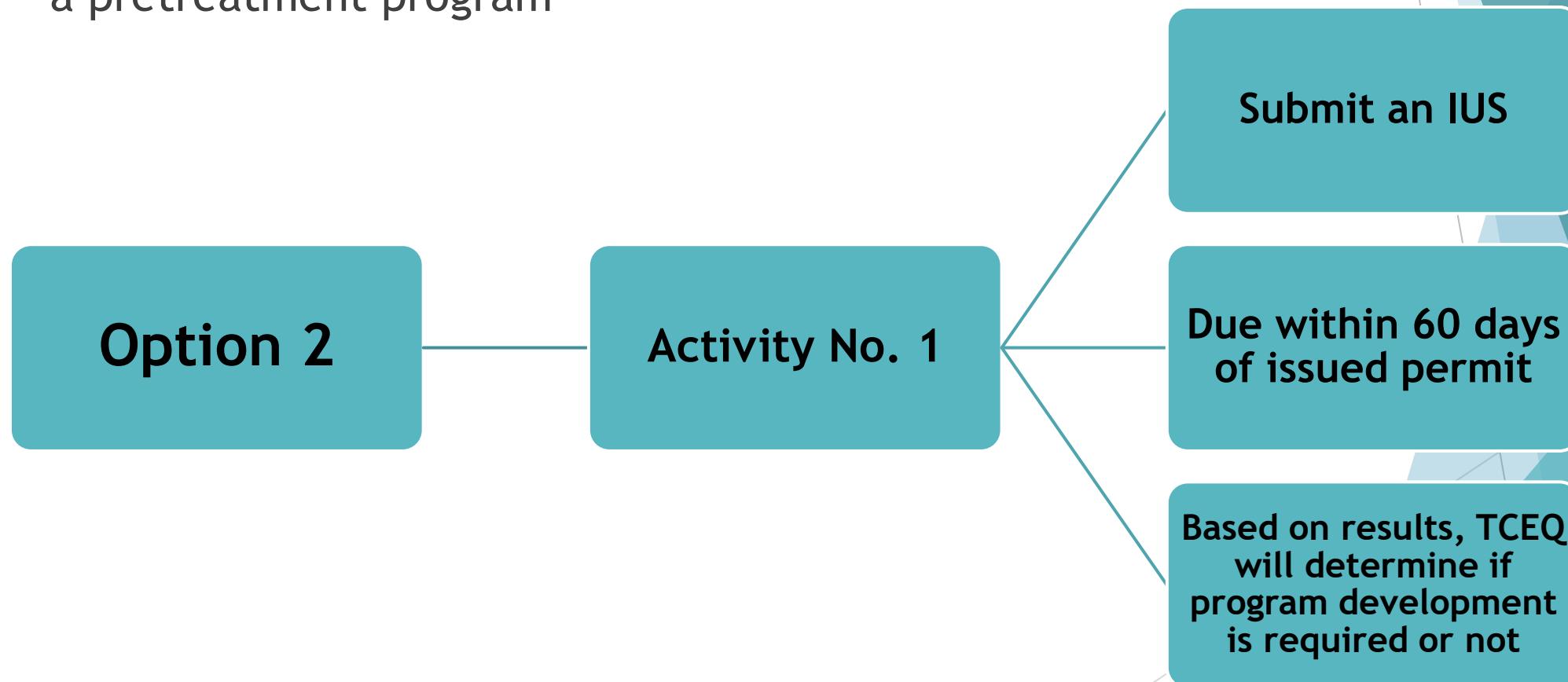
2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under 40 CFR Part 403 [rev. *Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798*].
3. The permittee shall provide adequate notification to the Executive Director care of the Wastewater Permitting Section (MC 148) of the Water Quality Division within 30 days subsequent to the permittee's knowledge of either of the following:
 - a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Any notice shall include information on the quality and quantity of effluent to be introduced into the treatment works, and any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Revised July 2007

TPDES Pretreatment Permit Language

- ▶ POTWs that are (or may be) required to develop a pretreatment program



TPDES Pretreatment Permit Language

Option 3

POTWs within an approved pretreatment program

SIUs are discharging to the specific WWTP

Option 4

POTWs within an approved pretreatment program

No SIUs are discharging to the specific WWTP

TPDES Pretreatment Permit Language: Options 3 & 4 WWTPs

Option 3

- POTW has an approved TPDES pretreatment program
- 40 CFR Part 403 requirements
- Technically Based Local Limits (TBLLs)
- Annual Report
- Notification requirements

Option 4

- Covered under approved TPDES pretreatment program
- No SIUs in the service area of the plant
- WWTP influent/effluent sampling not required
- Notification requirements still apply

QUESTIONS?

TPDES Pretreatment Program Contacts:

Water Quality Division
(512) 239 - 4671

Email us at WOPRET@tceq.texas.gov

- Bridget Malone
- Jessica Alcoser
- Erin Darling
- Amy Golden-Leddy
- Devon Thomas
- Sarah O'Neill
- Nathan Rothschild