



DTSC's Redesigned Hazardous Waste Tracking System March 11, 2021



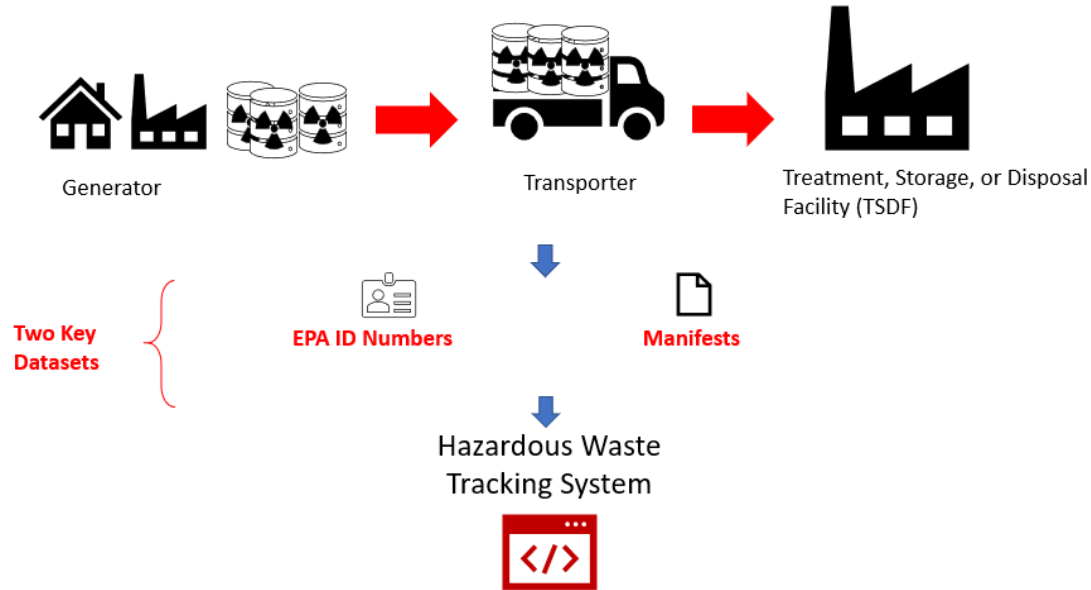
23rd California Unified Program Annual
Training Conference
February 2 – March 18, 2021

Overview

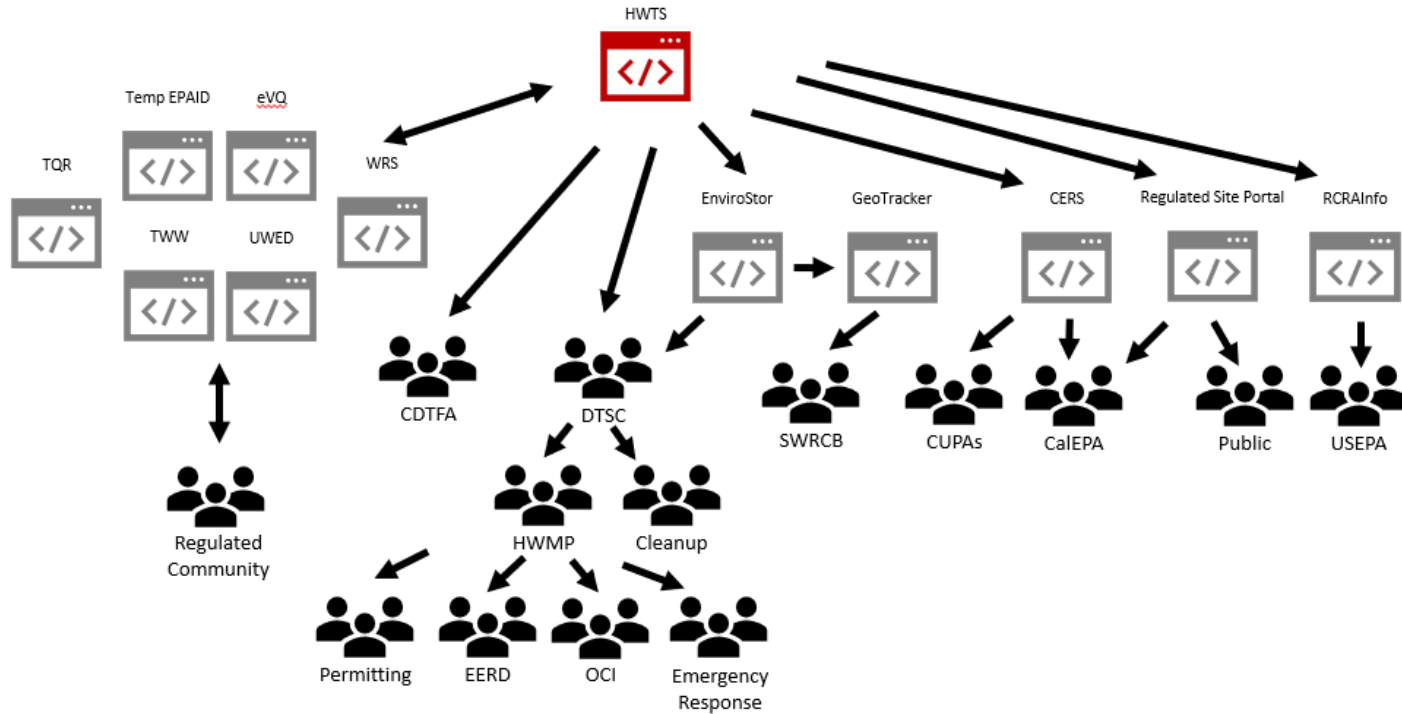
- Hazardous Waste Tracking System (HWTS)
 - What is HWTS?
 - HWTS Impact
- HWTS Redesign
- Data Quality
- HWTS Account Registration
- Demonstration

What is HWTS?

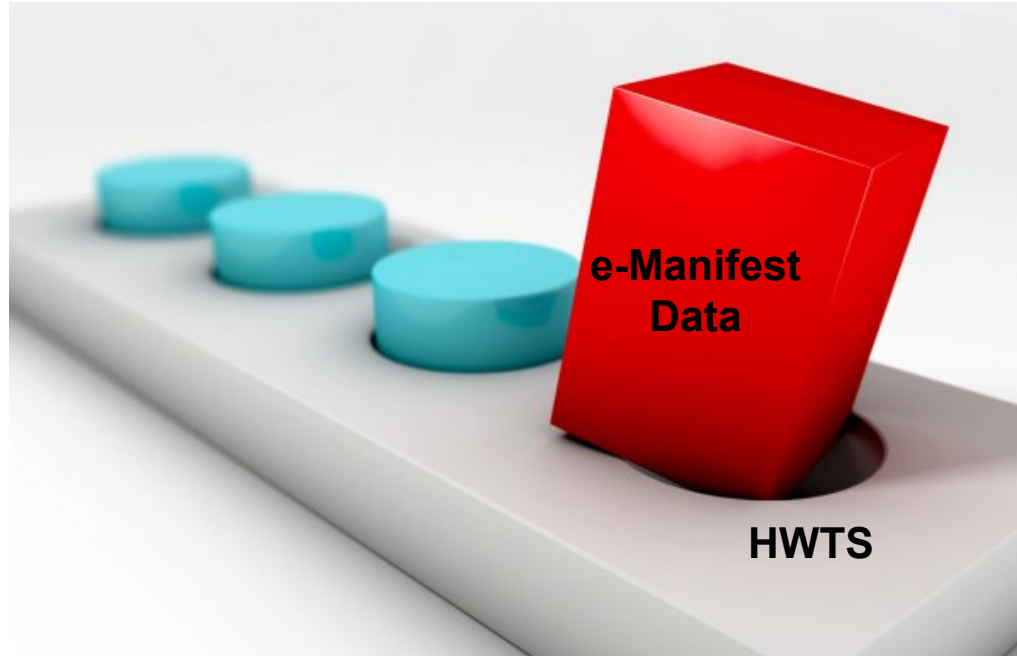
- Department of Toxic Substances Control's (DTSC) Data Repository for Hazardous Waste Manifest and ID Number Information



HWTS Impact



Why Redesign?



Why Redesign?

- HWTS created in 2001 – Minimal Updates
- System Maintenance Difficult
- Technical Debt
- E-Manifest Data Structure

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Hazardous Waste Tracking System

The Hazardous Waste Tracking System (HWTS) is the Department of Toxic Substances Control's data repository for hazardous waste Identification (ID) numbers and manifest information. HWTS generates reports on hazardous waste shipments for generators, transporters, and TSDFs. Reports from 1993 to the present are available by clicking on the Reports tab located at the top of this page. You can retrieve information from 10 public reports. These reports are subject to the limitations contained in the official Disclaimer and Data Limitations Statement.

Check the Status of your ID Number

By ID Number | View

By Company | View

Please make sure your internet browser pop-up blocker is disabled.

Related Links

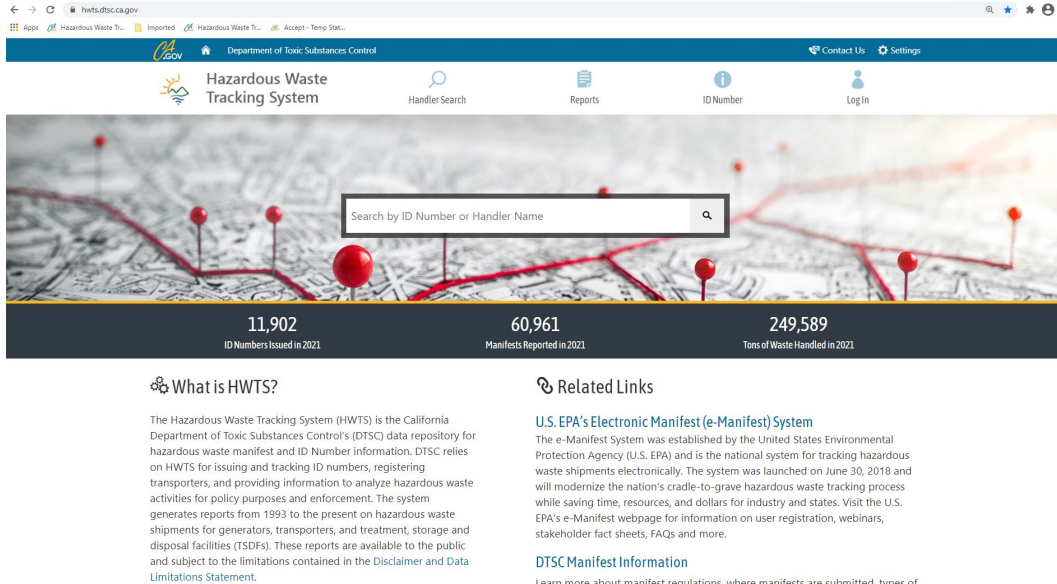
Hazardous Waste Manifest Information | View

e-Manifest System | View

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HWTS Redesign Project



The screenshot shows the HWTS website interface. At the top, there's a navigation bar with the California Department of Toxic Substances Control logo and the text "Department of Toxic Substances Control". Below this is the "Hazardous Waste Tracking System" header with navigation links for "Handler Search", "Reports", "ID Number", and "Log In". The main content area features a search bar with the placeholder text "Search by ID Number or Handler Name" and a magnifying glass icon. Below the search bar, there are three statistics for 2021: "11,902 ID Numbers Issued in 2021", "60,961 Manifests Reported in 2021", and "249,589 Tons of Waste Handled in 2021". The background of the main content area is a map with red location pins. Below the statistics, there are two sections: "What is HWTS?" and "Related Links".

What is HWTS?

The Hazardous Waste Tracking System (HWTS) is the California Department of Toxic Substances Control's (DTSC) data repository for hazardous waste manifest and ID Number information. DTSC relies on HWTS for issuing and tracking ID numbers, registering transporters, and providing information to analyze hazardous waste activities for policy purposes and enforcement. The system generates reports from 1993 to the present on hazardous waste shipments for generators, transporters, and treatment, storage and disposal facilities (TSDFs). These reports are available to the public and subject to the limitations contained in the Disclaimer and Data Limitations Statement.

Related Links

[U.S. EPA's Electronic Manifest \(e-Manifest\) System](#)

The e-Manifest System was established by the United States Environmental Protection Agency (U.S. EPA) and is the national system for tracking hazardous waste shipments electronically. The system was launched on June 30, 2018 and will modernize the nation's cradle-to-grave hazardous waste tracking process while saving time, resources, and dollars for industry and states. Visit the U.S. EPA's e-Manifest webpage for information on user registration, webinars, stakeholder fact sheets, FAQs and more.

[DTSC Manifest Information](#)

Learn more about manifest regulations, where manifests are submitted, types of

HWTS Required Modernization and Redesign

Project Impacts

- Modern Framework (ReactJS)
- Rebuild Database Table Structure
- Rebuild all ETLs
- Rebuild Website

Data Quality

e-Manifest is full of data, but is it accurate?

- 957 receiving facilities have processed almost 5 million manifests from about 350,000 generators since July 2018.
- Data quality issues have been observed over all three types of paper manifests, including mailed paper, image upload, and data plus image upload.



E-Manifest Data Quality

- EPA estimates that about 10% of image upload manifests present errors that require corrections before the manifest can be properly submitted to e-Manifest. Several states taking random samples from manifest data have found a much higher error rate of more than 30%. Common problems include:

Manifest Tracking Number	Is not valid or does not match submitted image (may be upwards of 10% of all manifests)
Generator ID	Missing or invalid
Data mismatch	Any other data where the data does not match image (waste codes, volumes, units)
Data omission	Long term value of data is diminished when all data is not reported, such as transporter IDs.

E-Manifest Data Quality

Errors and omissions have consequences

- Generators may not be able to retrieve their manifests from RCRAInfo, or if they do, they might be erroneous
- Regulators cannot trust e-Manifest data for inspection reconnaissance, setting permit limits, estimating financial responsibility
- e-Manifest data will not reliably assist LQG and TSDFs prepare their Biennial Reports (or annual reports for states that require them)

E-Manifest Data Quality

Recommendations

- ✓ More use of the system will have more chances for correction. Regulators should encourage generators to obtain myRCRA ID accounts to see their manifests.
- ✓ System developers need to build more front-end validations and application-facing tools for flagging bad data.
- ✓ Standards for receiving facilities should be transparent and achievable.
- ✓ Receiving facilities should be alerted to data quality concerns and held accountable if they fail to attempt correction

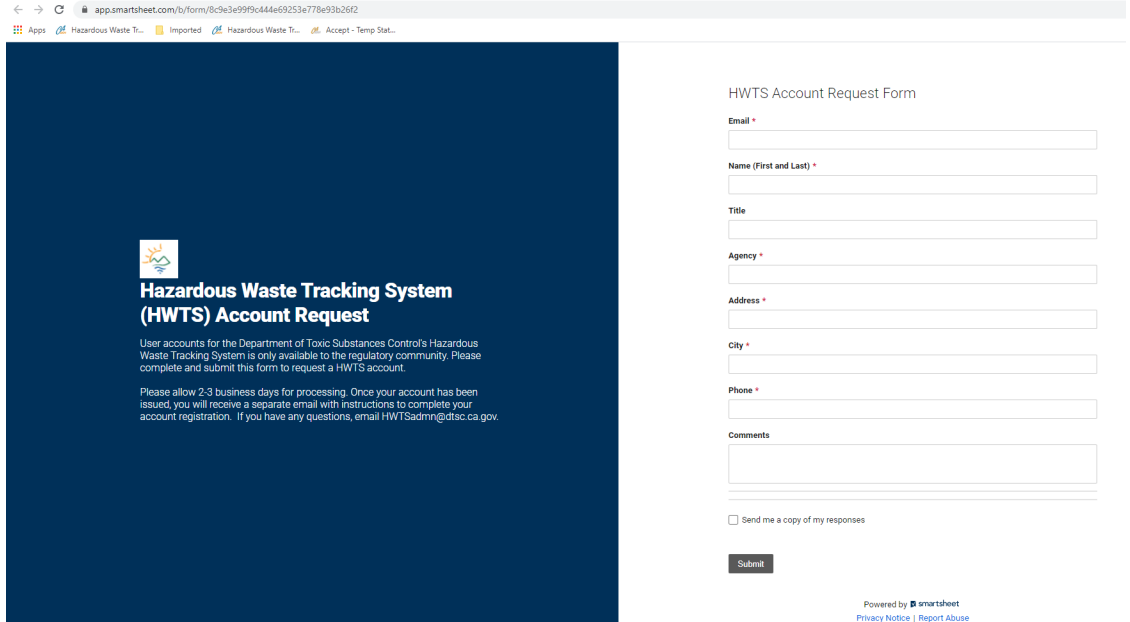


Questions?



HWTS Account

- Only Available to the Regulatory Community
- No Training Requirement
- [HWTS Account Request Form](#)
- Email Account Request to HWTSadmin@dtsc.ca.gov
- New User Agreement



The screenshot shows a web browser window displaying a SmartSheet form titled "HWTS Account Request Form". The form is set against a dark blue background with white text. The form fields include:

- Email ***: A text input field.
- Name (First and Last) ***: A text input field.
- Title**: A text input field.
- Agency ***: A text input field.
- Address ***: A text input field.
- City ***: A text input field.
- Phone ***: A text input field.
- Comments**: A larger text input area.

Below the form fields, there is a checkbox labeled "Send me a copy of my responses". At the bottom right of the form area is a "Submit" button. The footer of the page indicates it is "Powered by smartsheet" with links for "Privacy Notice" and "Report Abuse".



HWTS Demonstration





Questions?

HWTS

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E-Manifest Data

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