# TOXICS RELEASE INVENTORY

# BASIC PLUS DATA FILES DOCUMENTATION

## FILE TYPE 3A: DETAILS OF OFF-SITE TRANSFERS

## Updated for RY 2019

December 2019

**OVERVIEW OF TRI BASIC PLUS DATA FILES**

The TRI "Basic Plus" data files include 10 file types that collectively contain all the data fields from the TRI Reporting Form R and Form A (except Form R Schedule 1). The 10 file types are tab-delimited text (.txt) files packaged into a .zip file.

| File | Example | Description of Contents | Form R/Form A Reference |
|---|---|---|---|
| Type 1A | CA_1A_2017.txt | Facility data, chemical identification, chemical uses, on-site releases and management, off-site transfers, summary information | Part I (all), Part II (section 1, 3, 4, 5, 6.1.A, 6.2ABC, 7B, 7C, 8.2.B, 8.4.B, 8.6. |

The Basic Plus Data Files are identified (named) by state, file type, and reporting year:

File Name = State + File Type + Reporting Year

For example, the file "CA_1A_2017.txt" contains facility, chemical identification, chemical use, on-site release and waste management, off-site transfer and summary information (File Type 1A) for all facilities located in California (CA) for reporting year 2017.

In addition to the set of data files for each state, there are two other Basic Plus file sets: Federal and National. The Federal files (FED_1A_2017.txt, FED_2A_2017.txt, etc.) contain TRI data for all government-owned-and-operated federal sites. The National files (US_1A_2017.txt, US_2A_2017.txt, etc.) contain TRI data for all U.S. states and territories for a specific year.

**DESCRIPTION OF FILE TYPE 3A CONTENTS**

File Type 3A contains off-site transfer data from Section 6 of the TRI Reporting Form R, as shown in the table below. Each record in File Type 3A represents data from a single chemical reporting form (i.e., Form R) submitted by a facility.

All Type 3A files contain data from the following parts and sections of the Form R:

| Part | Section | Description |
|---|---|---|
| I | 1 | Reporting Year |
| I | 1 | Revision Codes |
| I | 4 | Facility Identification Information |
| I | 5 | Parent Company Information |
| I | 1 | Chemical Identification Data |
| II | 6.2 | Off-site Location Name, Address and RCRA number |
| II | 6.2.A | Transfer Totals |
| II | 6.2.B | Basis of Estimate |
| II | 6.2.C | Type of Waste Treatment/Disposal/Recycling/Energy Recovery |

*Note:* In 2005, the TRI Program stopped collecting underground injection control (UIC) identification numbers from facilities on the TRI reporting forms. UIC IDs identify facilities that received permits from state governments to dispose of or release chemical waste into Class I through Class V underground injection wells.

The TRI Program does have some historical UIC IDs that were collected prior to 2005. Many of these, however, are outdated and inaccurate. The TRI Program is also missing UIC IDs for facilities that began reporting to TRI in or after 2005. EPA does not store nor have access to current UIC IDs. Because of this lack of current, accurate and complete data, the TRI Program removed the UIC ID data fields from the TRI Basic Data Files in 2019.

To learn more about UIC permits and underground injection wells see the "Protecting Underground Source of Drinking Water from Underground Injection (UIC)" website at https://www.epa.gov/uic

## WHAT'S IN THIS DOCUMENT

The rest of this document is organized as a four-column data table. It describes what information you will find when you download and open any of the "TRI Basic Plus Data: File Type 3A" files.

| Column | Description |
|---|---|
| Number (No.) | The sequential number of the data element in the record |
| Field Name | The name of the data element (Note: these names correspond to the various column headings in the data files themselves.) |
| Data Type | 'C' for character data (alphanumeric)<br>'N' for numeric data<br>'D' for date |
| Description | A brief statement of what the data element represents, plus its TRI System Source (in **Table Name**. Field Name format) and where on the TRI Reporting Form R the data element is reported (i.e., *reference*). TRI System Source refers to the data element's physical location within EPA's Envirofacts online data warehouse. |

When you open any of the Basic Plus data files, you'll see that the contents are delimited by tabs, meaning a tab is placed between each data element. The first row of each file contains column headers, which correspond to the "field names" in this document.

| | A | B | C | D |
|---|---|---|---|---|
| 1 | REPORTING YEAR | TRADE SECRET INDICATOR | TRIFID | FACILITY NAME |
| 2 | 2016 | NO | 37087TSHBM1420T | NOVAMET SPECIALTY PRODUCTS |
| 3 | 2016 | NO | 2740WNVRNM837TR | ENVIRONMENTAL AIR SYSTEMS INC-TRIAD |
| 4 | 2016 | NO | 7585WSNDRS485HI | SANDERSON FARMS OAKWOOD FEED MILL |

*Example of the first four rows of a Basic Plus data file*

*REMINDER:* Quantities of dioxin and dioxin-like compounds are in grams. Quantities of all other TRI chemicals are reported in pounds. Facilities cannot use range codes to report quantities for dioxin and dioxin-like compounds and other Persistent Bioaccumulative Toxics (PBTs). For a list of PBT chemicals see Appendix C - Persistent Bioaccumulative Toxics (PBTs).

## HELPFUL RESOURCES FOR USERS OF DOWNLOADABLE DATA FILES

When using any of the downloadable TRI data files, it will be helpful for users to refer to the TRI Reporting Form R, the TRI Reporting Forms & Instructions document, and the Envirofacts TRI data model. The Reporting Forms & Instructions document and sample reporting forms are available online in the GuideME application at www.epa.gov/tri/guideme. The Envirofacts TRI data model is found at https://www.epa.gov/enviro/tri-model. These resources provide useful context and have additional details about certain data elements.

**FILE TYPE 3A CONTENTS**

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | |
| 1 | FORM TYPE | C | Indicates whether the Reporting Form R or Form A Certification Statement was submitted.<br>R = Form R<br>A = Form A Certification Statement<br>*Source:* **TRI_REPORTING_FORM.**FORM_TYPE_IND<br>*Reference:* Type of Form Used |
| 2 | TRIFD | C | Facility identification in the format zzzzznnnnnssssss, where usually zzzzz = facility zip code, nnnnn = first five consonants of the name, and sssss = first five non-specific characters in the street address. The three sections of the format were separated by hyphens prior to RY 2006.<br>**NOTE:** *The content of this field is **not** changed to match facility ownership, or zip code changes. Rather, the TRI Facility ID identifies a specific geographical location which is also identified by the latitude and longitude of that location.*<br>*Source:* **TRI_FACILITY.**TRI_FACILITY_ID<br>*Reference:* Part I, Section 4.1 |
| 3 | DOCUMENT CONTROL NUMBER | C | Unique identification number assigned to each submission by EPA. Format: TTYYMMMNNNNNC, where<br>TT = document type<br>YY = reporting year<br>MMM = document type<br>NNNNN= sequential number<br>C = check digit<br>*Source:* **TRI_REPORTING_FORM.**DOC_CTRL_ NUM<br>*Reference:* NA (System-generated) |
| 4 | CAS NUMBER | C | Chemical Abstracts Service (CAS) Registry Number for unique chemical, or category code (for compounds).<br>**NOTE:** *CAS number 999999999 is for sanitized trade secret submissions; CHEM_NAME displays the reported generic chemical name.*<br>*Source:* **TRI_REPORTING_FORM.**TRI_CHEM_ID<br>*Reference:* Part II, Section 1.1 |
| 5 | CHEMICAL NAME | C | Name of the chemical or generic name if the chemical is claimed as a trade secret.<br>*Source:* **TRI_REPORTING_FORM.**CAS_CHEM_NAME<br>*Reference:* Part II, Section 1.2 *or* Part II, Section 1.3 |
| 6 | MIXTURE NAME | C | The generic term used in place of the chemical name when the supplier of the chemical is withholding the name of the TRI chemical or claiming that the chemical is a trade secret. The generic term used in place of the chemical name when the supplier of the chemical is withholding the name of the TRI chemical or claiming |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | that the chemical is a trade secret. This is generally used when the supplier of a chemical formulation wishes to keep the identity of a particular ingredient in the formulation a secret. It is only used when the supplier, not the reporting facility, is claiming the trade secret. The reporting facility will enter the chemical name as "Mixture", then supply this generic name to describe it.<br><br>*Source:* **TRI_REPORTING_FORM.**MIXTURE_NAME<br>*Reference:* Part II, Section 2.1 |
| 7 | ELEMENTAL METAL INCLUDED | C | Indicates whether the facility submitted a combined reporting form for a metal compound and the corresponding elemental metal. This data element collected beginning with RY 2018.<br>VALUES: YES = combined reporting form submitted for both an elemental metal and a metal compound containing the same elemental metal; NO = no combined form submitted.<br>*Source:*<br>**TRI_REPORTING_FORM.**ELEMENTAL_METAL_INCLUDED<br>*Reference:* Part II, Section 1.2 |
| 8 | CLASSIFICATION | C | Indicates the classification of the chemical. Chemicals can be classified as either a Dioxin or Dioxin-like compound, a Persistent, Bioaccumulative and Toxic chemical or a general EPCRA Section 313 chemical.<br>Values: {TRI, PBT, DIOXIN} where:<br>TRI = General EPCRA Section 313 Chem.<br>PBT = Bioaccumulative and Toxic<br>DIOXIN = Dioxin or Dioxin-like compound<br>*Source:* **TRI_CHEM_INFO.**CLASSIFICATION<br>*Reference:* NONE |
| 9 | UNIT OF MEASURE | C | Indicates the unit of measure used to quantify the chemical. Dioxin and dioxin-like compounds are measured in grams, while all other TRI chemicals are measured in pounds. Values: {Pounds, Grams}<br>*Source:* **TRI_CHEM_INFO.**UNIT_OF_MEASURE<br>*Reference:* NONE |
| 10 | METAL_IND | C | Code indicating whether the chemical is a metal or not.<br>Yes = Metal<br>No = Non-Metal<br>See "Appendix B – Chemical Classifications – Metals" for a list metals on the TRI chemical list.<br>*Source:* **TRI_CHEM_INFO**.Metal_Ind |
| 11 | REVISION CODE 1 | C | If the facility revised its original TRI reporting form for this chemical, this code indicates the reason for the revision. Values:<br>RR 1 = New Monitoring Data |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | RR2 = New Emission Factors<br>RR3 = New Chemical Concentration Data<br>RR4 = Recalculation(s)<br>RR5 = Other Reasons(s)<br>*Source:* **TRI_REPORTING_FORM.**Revision_Code_ |
| 12 | REVISION CODE 2 | C | If the facility revised its original TRI reporting form for this chemical, this code indicates the reason for the revision. Values:<br>RR 1 = New Monitoring Data<br>RR2 = New Emission Factors<br>RR3 = New Chemical Concentration Data<br>RR4 = Recalculation(s)<br>RR5 = Other Reasons(s)<br>*Source:* **TRI_REPORTING_FORM.**Revision_Code_ |
| 13 | DIOXIN DISTRIBUTION 1 | N | Indicates the percentage of 1,2,3,4,6,7,8 Heptachlorodibenzofuran (CAS # 67562-39-4) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_1<br>*Reference:* Part II, Section 1.4 |
| 14 | DIOXIN DISTRIBUTION 2 | N | Indicates the percentage of 1,2,3,4,7,8,9 Heptachlorodibenzofuran (CAS # 55673-89-7) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_2<br>*Reference:* Part II, Section 1.4 |
| 15 | DIOXIN DISTRIBUTION 3 | N | Indicates the percentage of 1,2,3,4,7,8 Hexachlorodibenzofuran (CAS # 70648-26-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_3<br>*Reference:* Part II, Section 1.4 |
| 16 | DIOXIN DISTRIBUTION 4 | N | Indicates the percentage of 1,2,3,6,7,8 Hexachlorodibenzofuran (CAS # 57117-44-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | |
| | | | This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_4<br>*Reference:* Part II, Section 1.4 |
| 17 | DIOXIN DISTRIBUTION 5 | N | Indicates the percentage of 1,2,3,7,8,9 Hexachlorodibenzofuran (CAS # 72918-21-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_5<br>*Reference:* Part II, Section 1.4 |
| 18 | DIOXIN DISTRIBUTION 6 | N | Indicates the percentage of 2,3,4,6,7,8 Hexachlorodibenzofuran (CAS # 60851-34-5) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_6<br>*Reference:* Part II, Section 1.4 |
| 19 | DIOXIN DISTRIBUTION 7 | N | Indicates the percentage of 1,2,3,4,7,8 Hexachlorodibenzo-p-dioxin (CAS # 39227-28-6) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_7<br>*Reference:* Part II, Section 1.4 |
| 20 | DIOXIN DISTRIBUTION 8 | N | Indicates the percentage of 1,2,3,6,7,8 Hexachlorodibenzo- p-dioxin (CAS # 5765385-7) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0. and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_8<br>*Reference:* Part II, Section 1.4 |
| 21 | DIOXIN DISTRIBUTION 9 | N | Indicates the percentage of 1,2,3,7,8,9 Hexachlorodibenzo-p-dioxin (CAS # 19408-74-3) in the |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_9<br>*Reference:* Part II, Section 1.4 |
| 22 | DIOXIN DISTRIBUTION 10 | N | Indicates the percentage of 1,2,3,4,6,7,8 Heptachlorodibenzo-p-dioxin (CAS # 35822-46-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_10<br>*Reference:* Part II, Section 1.4 |
| 23 | DIOXIN DISTRIBUTION 11 | N | Indicates the percentage of 1,2,3,4,6,7,8,9 Octachlorodibenzofuran (CAS # 39001-02-0) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_11<br>*Reference:* Part II, Section 1.4 |
| 24 | DIOXIN DISTRIBUTION 12 | N | Indicates the percentage of 1,2,3,4,6,7,8,9 Octachlorodibenzo-p-dioxin (CAS # 03268-87-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_12<br>*Reference:* Part II, Section 1.4 |
| 25 | DIOXIN DISTRIBUTION 13 | N | Indicates the percentage of 1,2,3,7,8 Pentachlorodibenzofuran (CAS # 57117-41-6) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_13<br>*Reference:* Part II, Section 1.4 |
| 26 | DIOXIN DISTRIBUTION 14 | N | Indicates the percentage of 2,3,4,7,8 |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | |
| | | | Pentachlorodibenzofuran (CAS # 57117-31-4) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_14<br>*Reference:* Part II, Section 1.4 |
| 27 | DIOXIN DISTRIBUTION 15 | N | Indicates the percentage of 1,2,3,7,8 Pentachlorodibenzo-p-dioxin (CAS # 40321-76-4) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_15<br>*Reference:* Part II, Section 1.4 |
| 28 | DIOXIN DISTRIBUTION 16 | N | Indicates the percentage of 2,3,7,8 Tetrachlorodibenzofuran (CAS # 51207-31-9) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_16<br>*Reference:* Part II, Section 1.4 |
| 29 | DIOXIN DISTRIBUTION 17 | N | Indicates the percentage of 2,3,78 Tetrachlorodibenzo-p-dioxin (CAS # 01746-01-6) in the reported dioxin or dioxin-like compound. Values are either 0 or a number between 0 and 100 (inclusive). This data element collected from RY 2000 through 2007. See Appendix E - Dioxin and Dioxin-like Compound Data for more information.<br>*Source:*<br>**TRI_REPORTING_FORM.**DIOXIN_DISTRIBUTION_17<br>*Reference:* Part II, Section 1.4 |
| 30 | REPORTING YEAR | | The calendar year in which the reported activities occurred.<br>*Source:* **TRI_REPORTING_FORM.**REPORTING_YEAR<br>*Reference:* Part I, Section 1 |
| 31 | TRADE SECRET INDICATOR | C | Indicates whether the reporting facility claims the identity of the chemical or chemical category as a trade secret.<br>Yes = Checked (Trade Secret)<br>No = Not checked |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | |
| | | | Note: Only sanitized trade secret submissions are stored in the TRI database.<br>*Source:* **TRI_REPORTING_FORM.**TRADE_SECRET_IND<br>*Reference*: Part I, Section 2.1 |
| 32 | FACILITY NAME | C | Name of the reporting facility.<br>*Source:* **TRI_FACILITY.**FACILITY_NAME<br>*Reference:* Part I, Section 4.1 |
| 33 | FACILITY STREET | C | Street address of the reporting facility.<br>*Source:* **TRI_FACILITY.**STREET_ADDRESS<br>*Reference:* Part I, Section 4.1 |
| 34 | FACILITY CITY | C | City in which the reporting facility is located.<br>*Source:* **TRI_FACILITY.**CITY_NAME<br>*Reference:* Part I, Section 4.1 |
| 35 | FACILITY COUNTY | C | County in which the reporting facility is located.<br>*Source:* **TRI_FACILITY.**COUNTY_NAME<br>*Reference:* Part I, Section 4.1 |
| 36 | FACILITY STATE | C | Two-letter state code of the reporting facility.<br>*Source:* **TRI_FACILITY.**STATE_ABBR<br>*Reference:* Part I, Section 4.1 |
| 37 | FACILITY ZIP CODE | C | ZIP code of the reporting facility.<br>*Source:* **TRI_FACILITY.**ZIP_CODE<br>*Reference:* Part I, Section 4.1 |
| 38 | BIA CODE | C | Three-letter Bureau of Indian Affairs (BIA) code indicating the tribal land the facility is on.<br>*Source:* **FACILITY.**BIA_TRIBAL_CODE |
| 39 | TRIBE NAME | C | The name of the Tribe.<br>*Source:* **V_INDIAN_COUNTRY.** |
| 40 | ENTIRE FACILITY IND | C | Indicates whether the information covers an entire facility or part of a facility.<br>Yes = entire<br>No = partial<br>*Source:* **TRI_REPORTING_FORM.**ENTIRE_FAC<br>*Reference:* Part I, Section 4.2a |
| 41 | PARTIAL FACILITY IND | C | Indicates whether the information covers an entire facility or part of a facility:<br>Yes = partial<br>No = entire<br>*Source:* **TRI_REPORTING_FORM.**PARTIAL_FAC<br>*Reference:* Part I, Section 4.2b |
| 42 | FEDERAL FACILITY IND | C | Code indicating whether a facility is a federal facility or not. Reported by facility.<br>Yes = Federal<br>No = non-Federal Value<br>*Source:* **TRI_REPORTING_FORM.**FEDERAL_ FAC_IND<br>*Reference:* Part I Section 4.2c |
| 43 | GOCO FACILITY IND | C | Code indicating whether a facility is a GOCO |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | |
| | | | (Government Owned, Contractor-Operated) facility or not:<br>Yes = GOCO<br>No = non-GOCO<br>*Source:* **TRI_REPORTING_FORM.**GOCO_ FLAG<br>*Reference:* Part I Section 4.2d |
| 44 | ASSIGNED FED. FACILITY FLAG | C | Code indicating whether the facility is federally owned or not. Assigned by TRI.<br>Yes = Federal<br>No = Non-Federal<br>Source: **TRI_FACILITY**.ASGN_FEDERAL |
| 45 | ASSIGNED PARTIAL FACILITY FLAG | C | Code indicating whether the facility is a multi-establishment and reports by part. Assigned by TRI. Multi-establishment facilities may have more than one submission for the same chemical in one reporting year.<br>Yes = Partial<br>No = entire<br>*Source:* **TRI_FACILITY**. ASGN_PARTIAL_IND |
| 46 | PUBLIC CONTACT NAME | C | Name of the individual whom the public may contact if clarification of data is needed.<br>*Source:* **TRI_REPORTING_FORM.**PUBLIC_ CONTACT_PERSON<br>*Reference:* Part I, Section 4.4 |
| 47 | PUBLIC CONTACT PHONE | C | Area code and telephone number of the public contact.<br>*Source:* **TRI_REPORTING_FORM.**PUBLIC_ CONTACT_PHONE<br>*Reference:* Part I, Section 4.4 |
| 48 | PUBLIC CONTACT PHONE EXT | C | Phone extension of the public contact<br>*Source:* **TRI_REPORTING_FORM.**PUBLIC_PHONE_EXT<br>*Reference:* Part I, Section 4.4 |
| 49 | PUBLIC CONTACT EMAIL | C | Email address of the designated individual whom the public may contact if clarification of the facility's reported data is needed.<br>*Source:*<br>**TRI_REPORTING_FORM.**PUBLIC_CONTACT_PERSON _EMAIL |
| 50 | PRIMARY SIC CODE | C | Primary four-digit Standard Industrial Classification (SIC) code. SIC codes reported by facilities from RY 1987 through 2005.<br>*Source:* **TRI_SUBMISSION_SIC.**SIC_CODE<br>*Where:* primary_ind = '1'<br>*Reference:* Part I, Section 4.5a |
| 51 | SIC CODE 2 | C | Second four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005.<br>*Source:* **TRI_SUBMISSION_SIC.**SIC_CODE<br>*Where:* sic_sequence_num = '2'<br>*Reference:* Part I, Section 4.5b |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | |
| 52 | SIC CODE 3 | C | Third four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005.<br>*Source:* **TRI_SUBMISSION_SIC.**SIC_CODE<br>*Where:* sic_sequence_num = >3'<br>*Reference:* Part I, Section 4.5c |
| 53 | SIC CODE 4 | C | Fourth four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005.<br>*Source:* **TRI_SUBMISSION_SIC.**SIC_CODE<br>*Where:* sic_sequence_num = >4'<br>*Reference:* Part I, Section 4.5d |
| 54 | SIC CODE 5 | C | Fifth four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005.<br>*Source:* **TRI_SUBMISSION_SIC.** SIC_CODE<br>*Where:* sic_sequence_num = >5'<br>*Reference:* Part I, Section 4.5e |
| 55 | SIC CODE 6 | C | Sixth four-digit Standard Industrial Classification (SIC) code entered by facility. SIC codes reported by facilities from RY 1987 through 2005.<br>*Source:* **TRI_SUBMISSION_SIC.** SIC_CODE<br>*Where:* sic_sequence_num = >6'<br>*Reference:* Part I, Section 4.5f |
| 56 | NAICS ORIGIN | C | Indicates whether North American Industry Classification System (NAICS) codes were reported or assigned.<br>R = Reported<br>A = Assigned |
| 57 | PRIMARY NAICS CODE | C | Primary six-digit North American Standard Industry Classification System (NAICS) code. See Appendix F for more details.<br>*Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE<br>*Where:* primary_ind => 1<br>*Reference:* Part I, Section 4.5a |
| 58 | NAICS CODE 2 | C | Second six-digit North American Standard Industry Classification System (NAICS) code entered by facility<br>*Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE<br>*Where:* naics_sequence_num = 2<br>*Reference:* Part I, Section 4.5b |
| 59 | NAICS CODE 3 | C | Third six-digit North American Standard Industry Classification System (NAICS) code entered by facility.<br>*Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE<br>*Where:* naics_sequence_num = 3<br>*Reference:* Part I, Section 4.5b |
| 60 | NAICS CODE 4 | C | Forth six-digit North American Standard Industry Classification System (NAICS) code entered by facility. |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | *Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE<br>*Where:* naics_sequence_num = 4<br>*Reference:* Part I, Section 4.5b |
| 61 | NAICS CODE 5 | C | Fifth six-digit North American Standard Industry Classification System (NAICS) code entered by facility.<br>*Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE<br>*Where:* naics_sequence_num = 5<br>*Reference:* Part I, Section 4.5b |
| 62 | NAICS CODE 6 | C | Sixth six-digit North American Standard Industry Classification System (NAICS) code entered by facility.<br>*Source:* **TRI_SUBMISSION_NAICS.**NAICS_CODE<br>*Where:* naics_sequence_num = 6<br>*Reference:* Part I, Section 4.5b |
| 63 | LATITUDE | N | The latitude value that best represents the facility according to EPA's Facility Registry System (FRS). In RY 2005, EPA stopped collecting the latitude value and began obtaining it from FRS. Format: signed 2-digit whole number, 6 digit decimal positions (+nn.nnnnnn).<br>*Source:* **EPA's Facility Registry System** |
| 64 | LONGITUDE | N | The longitude value that best represents the facility according to EPA's Facility Registry System (FRS). In 2005, TRI stopped collecting the longitude value and began obtaining it from FRS. Format: signed 3-digit whole number, 6-digit decimal positions (+nnn.nnnnnn).<br>*Source:* **EPA's Facility Registry System** |
| 65 | D&B NR A | C | Unique identification number assigned by Dun and Bradstreet to the reporting facility.<br>*Source:* **TRI_FACILITY_DB.**DB_NUM<br>*Reference:* Part I, Section 4.7a |
| 66 | D&B NR B | C | Unique identification number assigned by Dun and Bradstreet to the reporting facility.<br>*Source:* **TRI_FACILITY_DB.**DB_NUM<br>*Reference:* Part I, Section 4.7b |
| 67 | RCRA NR A | C | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 68 | RCRA NR B | C | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 69 | RCRA NR C | C | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 70 | RCRA NR D | C | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 71 | RCRA NR E | C | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 72 | RCRA NR F | C | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 73 | RCRA NR G | C | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 74 | RCRA NR H | C | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 75 | RCRA NR I | C | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 76 | RCRA NR J | C | Twelve-digit alphanumeric identifier assigned by EPA per the Resource Conservation and Recovery Act (RCRA). In RY 2005, TRI stopped collecting RCRA IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 77 | NPDES NR A | C | Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |

| No. | Field Name | Type | Description |
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| 78 | NPDES NR B | C | Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 79 | NPDES NR C | C | Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 80 | NPDES NR D | C | Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 81 | NPDES NR E | C | Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 82 | NPDES NR F | C | Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 83 | NPDES NR G | C | Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 84 | NPDES NR H | C | Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 85 | NPDES NR I | C | Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs and began obtaining them from EPA's Facility Registry |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 86 | NPDES NR J | C | Nine-digit alphanumeric identifier assigned to a facility in EPA's National Pollutant Discharge Elimination System (NPDES). In RY 2005, TRI stopped collecting NPDES IDs and began obtaining them from EPA's Facility Registry System (FRS).<br>*Source:* **EPA's Facility Registry System** |
| 87 | PARENT COMPANY NAME | C | Name of the corporation or other business entity that controls the reporting facility.<br>*Source:* **TRI_FACILITY.**PARENT_CO_NAME<br>*Reference:* Part I, Section 5.1 |
| 88 | PARENT COMPANY D&B NR | C | Unique identification number assigned by Dun and Bradstreet to the parent company of the reporting facility.<br>*Source:* **TRI_FACILITY.**PARENT_CO_DB_NUM<br>*Reference:* Part I, Section 5.2 |
| 89 | STANDARDIZED PARENT COMPANY NAME | C | Standardized Parent Company Name assigned by TRI.<br>Source:<br>**TRI_FACILITY.**STANDARDIZED_PARENT_COMPANY |
| 90 | FRS FACILITY ID | C | Indicates the Facility Registry Service (FRS) ID for the TRI facility. The FRS is a centrally managed EPA database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. Using the FRS ID, data users can link data from different EPA programs together.<br>*Source:* **TRI_FACILITY.EPA_REGISTRY_ID** |
| 91 | OFF-SITE RCRA ID NR | C | The identification number assigned to the off-site facility that receives waste containing the reported chemical, as assigned under the Resource Conservation and Recovery Act (RCRA) and other regulations of the Superfund Act (CERCLA).<br>*Source:*<br>**TRI_OFF_SITE_TRANSFER_LOCATION.**RCRA_NUM<br>*Reference:* Part II, Section 6.2 |
| 92 | OFF-SITE TRANSFER SEQUENCE NUMBER | C | This field contains a sequence number assigned to the off-site location.<br>*Source:* **TRI_OFF_SITE_TRANSFER_LOCATION.**<br>TRANSFER_LOC_NUM<br>*Reference:* NA (System-generated) |
| 93 | OFF-SITE NAME | C | The name of the off-site facility to which the waste containing the reported chemical is transferred.<br>*Source:*<br>**TRI_OFF_SITE_TRANSFER_LOCATION.**OFF_SITE_NAME<br>*Reference:* Part II, Section 6.2 |
| 94 | OFF-SITE STREET ADDRESS | C | The address of the off-site facility to which the waste |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | containing the reported chemical is transferred.<br>*Source:*<br>**TRI_OFF_SITE_TRANSFER_LOCATION.**OFF_SITE_STREET<br>*Reference:* Part II, Section 6.2 |
| 95 | OFF-SITE CITY | C | The city in which the off-site facility is located.<br>*Source:*<br>**TRI_OFF_SITE_TRANSFER_LOCATION.**CITY_NAME<br>*Reference:* Part II, Section 6.2 |
| 96 | OFF-SITE COUNTY | C | The county in which the off-site facility is located.<br>*Source:*<br>**TRI_OFF_SITE_TRANSFER_LOCATION.**COUNTY_NAME<br>*Reference:* Part II, Section 6.2 |
| 97 | OFF-SITE STATE | C | The two-letter state abbreviation of the off-site facility to which the waste containing the reported chemical is transferred.<br>*Source:*<br>**TRI_OFF_SITE_TRANSFER_LOCATION.**STATE_ABBR<br>*Reference:* Part II, Section 6.2 |
| 98 | OFF-SITE PROVINCE | C | Province of the off-site facility's mailing address.<br>*Source:*<br>**TRI_OFF_SITE_TRANSFER_LOCATION.**PROVINCE<br>*Reference:* Part I, Section 4.1 |
| 99 | OFF-SITE ZIP CODE | C | The ZIP code used in the address of the off-site facility.<br>*Source:*<br>**TRI_OFF_SITE_TRANSFER_LOCATION.**ZIP_CODE<br>*Reference:* Part II, Section 6.2 |
| 100 | OFF-SITE COUNTRY ID | C | If the off-site facility is not in the United States, this field contains the name of the country to which the chemical waste is transferred.<br>*Source*:<br>**TRI_OFF_SITE_TRANSFER_LOCATION.**COUNTRY_CODE<br>*Reference:* Part II, Section 6.2 |
| 101 | OFF-SITE CONTROL | C | Indicator of whether the off-site location to which waste is transferred is owned or controlled by the reporting facility or its parent company.<br>Values: 1 = 'Yes', 0 = 'No', 2 = blank or not entered.<br>*Source:* **TRI_OFF_SITE_TRANSFER_LOCATION.** CONTROLLED_LOC<br>*Reference:* Part II, Section 6.2 |
| 102 | FRS ID – TRANSFER LOCATION | C | Indicates the Facility Registry Service (FRS) ID for the off-site location to which the reported chemical was transferred. The FRS is a centrally managed EPA database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. Using the FRS ID, data users can link data from different EPA programs together. |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | *Source:* **TRI_OFF_SITE_TRANSFER_LOCATION**.EPA_REGISTRY_ID |
| 103 | OFF-SITE – STORAGE ONLY | N | The total quantity of the chemical reported as transferred off site for disposal using code **M10**: "Storage Only." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D** – Range Codes for codes, ranges and mid-points. *Source:* **TRI_TRANSFER_QTY.**TOTAL_TRANSFER *Reference:* Part II, Section 6.2A |
| 104 | OFF-SITE – STORAGE ONLY – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total storage estimate (**M10**) was calculated. See Appendix A for a list of the codes and corresponding methods. *Source:* **TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE *Reference:* Part II, Section 6.2B |
| 105 | OFF-SITE - SOLIDIFICATION/STABILIZATION (METALS) | N | The total quantity of the chemical reported as transferred off site for disposal using code **M41**: "Solidification/Stabilization (Metals and Metal Compounds Category Only." Note that this only applies to metals and metal compounds. This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D** – Range Codes" for codes, ranges and mid-points. *Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER *Reference:* Part II, Section 6.2A |
| 106 | OFF-SITE- SOLIDIFICATION/STABILIZATION (METALS) - BASIS OF ESTIMATE | C | A code indicating the principal method by which the total solidification/stabilization (**M41**) estimate was calculated. See Appendix A for a list of the codes and corresponding methods. *Source:* **TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE *Reference:* Part II, Section 6.2B |
| 107 | OFF-SITE - WASTEWATER TRTMT (METALS) | N | The total quantity of the chemical reported as transferred off site for disposal using the code **M62**: "Wastewater Treatment (Excluding POTWs) – Metals and Metal Compounds Only." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D** – Range Codes" for codes, ranges and mid-points. *Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER *Reference:* Part II, Section 6.2A |
| 108 | OFF-SITE - WASTEWATER TRTMT (METALS) – BASIS OF ESTIMATE | C | A code indicating the principal method by which the |

| No. | Field Name | Type | Description |
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| | | | |
| | | | total solidification/stabilization (**M62** - Metals) estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 109 | OFF-SITE - SOLIDIFICATION/ STABILIZATION | N | The total quantity of the chemical reported as transferred off site for disposal using the code **M40:** "Solidification/Stabilization." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D** – Range Codes" for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 110 | OFF-SITE - SOLIDIFICATION/STABILIZATION – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total solidification/stabilization (**M40**) estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 111 | OFF-SITE - WASTEWATER TRTMT (EXCLUDING POTWs) – METALS AND METAL COMPOUNDS ONLY | N | The total quantity of the chemical reported as transferred off site for disposal using the code **M61:** "Wastewater Treatment (Excluding POTWs)." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D** – Range Codes" for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A1 |
| 112 | OFF-SITE - WASTEWATER TRTMT (EXCLUDING POTWs) – METAL AND METAL COMPOUNDS ONLY – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total wastewater treatment (**M61** – Metals) estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 113 | OFF-SITE - UGRND INJ | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M71**: Underground Injection." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D** – Range Codes" for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A<br>*Note: Effective for RY 2003, code M71 was deleted and* |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | *replaced with codes M81 (Underground Injection to Class I Wells) and M82 (Underground Injection to Class II-V Wells).* |
| 114 | OFF-SITE – UGRND INJ – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total underground injection **(M71)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B<br>*Note: Effective for RY 2003, code M71 was deleted and replaced with codes M81 (Underground Injection to Class I Wells) and M82 (Underground Injection to Class II-V Wells).* |
| 115 | OFF-SITE - UGRND INJ (CLASS I WELLS) | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M81**: Underground Injection (Class I Wells)." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D** – Range Codes" for codes, ranges and mid-points. This code was added in RY 2003.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 116 | OFF-SITE UGRND INJ (CLASS I WELLS) – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total underground injection into Class I wells **(M81)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 117 | OFF-SITE - UGRND INJ (CLASS II- V WELLS) | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M82**: Underground Injection (Class II-V Wells)." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D – Range Codes"** for codes, ranges and mid-points. This code was added in RY 2003.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 118 | OFF-SITE - UGRND INJ (CLASS II- V WELLS) – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total underground injection into Class II-V wells **(M82**) estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | *Reference:* Part II, Section 6.2B |
| 119 | OFF-SITE - LANDFILLS/DISPOSAL SURFACE IMPOUNDMENT | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M72**: Landfills/Disposal Surface Impoundment." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D – Range Codes"** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A<br>*Note: Effective for RY 2002, code M72 was deleted and replaced with code M63 (Surface Impoundment), M64 (Other Landfills), and M65 (RCRA Subtitle C Landfills).* |
| 120 | OFF-SITE - LANDFILLS/DISPOSAL SURFACE IMPOUNDMENT – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total landfill or surface impoundment disposal **(M72)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B<br>*Note: Effective for RY 2002, code M72 was deleted and replaced with code M63 (Surface Impoundment), M64 (Other Landfills), and M65 (RCRA Subtitle C Landfills).* |
| 121 | OFF-SITE - SURFACE IMPOUNDMENT | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M63**: Surface Impoundment." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D – Range Codes"** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A<br>*Note: Effective for RY 2003, code M63 was deleted and replaced with code M66 (RCRA Subtitle C Surface Impoundment) and code M67 (Other Surface Impoundments).* |
| 122 | OFF-SITE - SURFACE IMPOUNDMENT- BASIS OF ESTIMATE | C | A code indicating the principal method by which the total surface impoundment **(M63)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B<br>*Note: Effective for RY 2003, code M63 was deleted and replaced with code M66 (RCRA Subtitle C Surface Impoundment) and code M67 (Other Surface Impoundments).* |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | |
| 123 | OFF-SITE - RCRA SUBTITLE C SURFACE IMPOUNDMENT | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M66**: RCRA Subtitle C Surface Impoundment." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D – Range Codes"** for codes, ranges and mid-points. This code was added in RY 2003.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 124 | OFF-SITE - RCRA SUBTITLE C SURFACE IMPOUNDMENT – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total RCRA Subtitle C surface impoundment **(M66)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 125 | OFF-SITE - OTHER SURFACE IMPOUNDMENT | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M67**: Other Surface Impoundment." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D – Range Codes"** for codes, ranges and mid-points. This code was added in RY 2003.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 126 | OFF-SITE – OTHER SURFACE IMPOUNDMENT – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total other surface impoundment **(M67)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 127 | OFF-SITE - OTHER LANDFILLS | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M64**: Other Landfills." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D – Range Codes"** for codes, ranges and mid-points. This code was added in RY 2002.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 128 | OFF-SITE - OTHER LANDFILLS – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total other landfills (**M64**) estimate was calculated. See Appendix A for a list of the codes and corresponding methods. |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | |
| | | | *Source:* **TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE *Reference:* Part II, Section 6.2B |
| 129 | OFF-SITE - RCRA SUBTITLE C LANDFILLS | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M65**: RCRA Subtitle C Landfills." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D – Range Codes"** for codes, ranges and mid-points. This code was added in RY 2002. *Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER *Reference:* Part II, Section 6.2A |
| 130 | OFF-SITE – RCRA SUBTITLE C LANDFILLS – BASIS OF ESTIMATE | C | A code indicating the principal method by which the transfers to RCRA subtitle C landfills **(M65**) estimate was calculated. See Appendix A for a list of the codes and corresponding methods. *Source:* **TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE *Reference:* Part II, Section 6.2B |
| 131 | OFF-SITE - LAND TREATMENT | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M73**: Land Treatment." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D – Range Codes"** for codes, ranges and mid-points. *Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER *Reference:* Part II, Section 6.2A |
| 132 | OFF-SITE - LAND TREATMENT – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total land treatment **(M73)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods. *Source:* **TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE *Reference:* Part II, Section 6.2B |
| 133 | OFF-SITE - OTHER LAND DISPOSAL | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M79**: Other Land Disposal This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D – Range Codes"** for codes, ranges and mid-points. *Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER *Reference:* Part II, Section 6.2A |
| 134 | OFF-SITE - OTHER LAND DISPOSAL - BASIS OF ESTIMATE | C | A code indicating the principal method by which the total other land disposal **(M79)** estimate was calculated. See Appendix A for a list of the codes and |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 135 | OFF-SITE - OTHER OFF-SITE MGMT | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M90**: Other Off-Site Management." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D – Range Codes"** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 136 | OFF-SITE - OTHER OFF-SITE MGMT - BASIS OF ESTIMATE | N | A code indicating the principal method by which the total other off-site management **(M90)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:* **TRI_TRANSFER_QTY.**<br>TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 137 | OFF-SITE - TRANSFER TO WASTE BROKER FOR DISPOSAL | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M94**: Transfer to Waste Broker for Disposal." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D – Range Codes"** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 138 | OFF-SITE - TRANSFER TO WASTE BROKER FOR DISPOSAL – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total waste broker disposal **(M94)** estimate was calculated. See **Appendix A f**or a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 139 | OFF-SITE – DISPOSAL - UNKNOWN | N | The total quantity of the chemical reported as transferred off site for disposal using the code "**M99**: Disposal - Unknown." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See "**Appendix D – Range Codes"** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | |
| 140 | OFF-SITE – DISPOSAL -UNKNOWN - BASIS OF ESTIMATE | C | A code indicating the principal method by which the total off-site unknown disposal **(M99)** estimate was calculated. See **Appendix A** for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 141 | TOTAL AMOUNT TRANSFERRED OFF-SITE FOR DISPOSAL | N | Total, in pounds, of the chemical reported transferred off site for disposal. This the sum of rows #103 + #105 + #107 + #109 + #111 + #113 + #115 + #117 + #119 + #121 + #123 + #125 + #127 + #129 + #131 + #133 + #135 + #137 + #139<br>*Source:* **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* None |
| 142 | OFF-SITE - SOLVENTS/ORGANICS RECOVERY | N | The total quantity of the chemical reported as transferred off site for recycling using the code "**M20**: Solvents/Organics Recovery." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D – Range Codes** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 143 | OFF-SITE - SOLVENTS/ORGANICS RECOVERY – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total solvents/organics recovery **(M20)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 144 | OFF-SITE – METALS RECOVERY | N | The total quantity of the chemical reported as transferred off site for recycling using the code "**M24**: Metals Recovery." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D – Range Codes** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 145 | OFF-SITE – METALS RECOVERY – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total metals recovery **(M24)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 146 | OFF-SITE – OTHER REUSE OR RECOVERY | N | The total quantity of the chemical reported as transferred off site for recycling using the code "**M26**: |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | |
| | | | Other Reuse or Recovery." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D – Range Codes** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 147 | OFF-SITE – OTHER REUSE OR RECOVERY – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total other reuse or recovery **(M26)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 148 | OFF-SITE – ACID REGENERATION | N | The total quantity of the chemical reported as transferred off site for recycling using the code "**M28**: Acid Regeneration." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D – Range Codes** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 149 | OFF-SITE – ACID REGENERATION – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total acid regeneration **(M28)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 150 | OFF-SITE – TRANSFER TO WASTE BROKER FOR RECYCLING | N | The total quantity of the chemical reported as transferred off site for recycling using the code "**M93**: Transfer to Waste Broker - Recycling This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D – Range Codes** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 151 | OFF-SITE – TRANSFER TO WASTE BROKER FOR RECYCLING – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total transfer to waste broker for recycling **(M93)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 152 | TOTAL AMOUNT TRANSFERRED OFF SITE FOR RECYCLING | N | Total, in pounds, of the chemical reported as transferred off-site for recycling. Sum of rows #140 + |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | |
| | | | #142 + #144 + #146 + #148.<br>*Source:*<br>**TRI_FORM_TOTALS.TOTAL_RECYCLING_TRANSFER**<br>*Reference:* None |
| 153 | OFF-SITE – ENERGY RECOVERY | N | The total quantity of the chemical reported as transferred off site for energy recovery using the code "**M56**: Energy Recovery This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D – Range Codes** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 154 | OFF-SITE – ENERGY RECOVERY – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total transfer to waste broker for recycling **(M56)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 155 | OFF-SITE – TRANSFER TO WASTE BROKER FOR ENERGY RECOVERY | N | The total quantity of the chemical reported as transferred off site for energy recovery using the code "**M92**: Transfer to Waste Broker – Energy Recovery." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D – Range Codes** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 156 | OFF-SITE – TRANSFER TO WASTE BROKER FOR ENERGY RECOVERY – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total transfer to waste broker for energy recovery **(M92)** estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 157 | TOTAL AMOUNT TRANSFERRED OFF-SITE FOR ENERGY RECOVERY | N | Total, in pounds, of the chemical transferred off-site for energy recovery. Sum of fields #151 + #153.<br>*Source:*<br>**TRI_FORM_TOTALS.TOTAL_RECOVERY_TRANSFER**<br>*Reference:* None |
| 158 | OFF-SITE - SOLIDIFICATION/ STABILIZATION – TREATMENT – NON-METALS | N | The total quantity of the chemical reported as transferred off site for treatment using the code **M40:** "Solidification/Stabilization." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D – Range Codes** for codes, ranges |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 159 | OFF-SITE - SOLIDIFICATION/STABILIZATION – TREATMENT – NON-METALS – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total solidification/stabilization (**M40**) estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 160 | OFF-SITE – INCINERATION/THERMAL TREATMENT | N | The total quantity of the chemical reported as transferred off site for treatment using the code "**M50**: Incineration/Thermal Treatment." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D – Range Codes** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 161 | OFF-SITE – INCINERATION/THERMAL TREATMENT – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total incineration/thermal treatment estimate (**M50**) was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 162 | OFF-SITE – INCINERATION/INSIGNIFICANT FUEL VALUE | N | The total quantity of the chemical reported as transferred off site for treatment using the code "**M54:** Incineration/Insignificant Fuel Value." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D – Range Codes** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 163 | OFF-SITE – INCINERATION/INSIGNIFICANT FUEL VALUE– BASIS OF ESTIMATE | C | A code indicating the principal method by which the total incineration/insignificant fuel value (**M54**) estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 164 | OFF-SITE - WASTEWATER TRTMT (EXCLUDING POTWs) – NON-METALS | N | The total quantity of the chemical reported as transferred off site for treatment using the code **M61:** Wastewater Treatment (Excluding POTWs) for non-Metals only. See "Appendix B – Chemical Classification – Metals" for metals that are excluded from this category/summation. This total includes the sum of all |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | |
| | | | numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D – Range Codes** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 165 | OFF-SITE - WASTEWATER TRTMT (EXCLUDING POTWs) – NON-METALS– BASIS OF ESTIMATE | C | A code indicating the principal method by which the total Wastewater Treatment (Excluding POTWs) for non-Metals (**M61**) estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 166 | OFF-SITE – OTHER WASTE TREATMENT | N | The total quantity of the chemical reported as transferred off site for treatment using the code "**M69:** Other Waste Treatment." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D – Range Codes** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 167 | OFF-SITE – OTHER WASTE TREATMENT – TOTAL – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total other waste treatment (**M69**) estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 168 | OFF-SITE – TRANSFER TO WASTE BROKER FOR WASTE TREATMENT | N | The total quantity of the chemical reported as transferred off site to a waste broker for waste treatment using the code "**M95:** Transfer to Broker - Waste Treatment." This total includes the sum of all numeric estimates and range codes reported under this code. For range codes, the mid-points of the ranges are used in the calculation. See **Appendix D – Range Codes** for codes, ranges and mid-points.<br>*Source*: **TRI_TRANSFER_QTY.**TOTAL_TRANSFER<br>*Reference:* Part II, Section 6.2A |
| 169 | OFF-SITE – TRANSFER TO WASTE BROKER FOR WASTE TREATMENT – TOTAL – BASIS OF ESTIMATE | C | A code indicating the principal method by which the total "transfer to waste broker for waste treatment" (**M95**) estimate was calculated. See Appendix A for a list of the codes and corresponding methods.<br>*Source:*<br>**TRI_TRANSFER_QTY.**TRANSFER_BASIS_EST_CODE<br>*Reference:* Part II, Section 6.2B |
| 170 | TOTAL AMOUNT TRANSFERRED OFF- | N | Total, in pounds, of the chemical transferred off-site |

| No. | Field Name | Type | Description |
|---|---|---|---|
| | | | |
| | SITE FOR TREATMENT | | for treatment. Sum of fields #156 + #158 + #160 + #162 + #164 + #166.<br>*Source:*<br>**TRI_FORM_TOTALS.TOTAL_TREATMENT_TRANSFER**<br>*Reference:* None |

## APPENDIX A – Basis of Estimate Codes

**Form R, Section 6.2: Transfers to Other Off-Site Locations, Basis of Estimate Codes (Column B)**

| Basis of Estimate Code | Definition | Notes |
|---|---|---|
| C | Mass balance calculations | |
| E | Published emission factors | This code was retired in RY 2007. It may still appear on some paper submissions submitted after RY 2007. |
| E1 | Published emission factors | This code was added in RY 2007 to replace code 'E' and provide more detail on basis of estimates. |
| E2 | Onsite specific emission factors | This code was added in RY 2007 to replace code 'E' and provide more detail on basis of estimates. |
| M | Monitoring data | This code was retired in RY 2007. It may still appear on some paper submissions submitted after RY 2007. |
| M1 | Continuous monitoring data | This code was added in RY 2007 to replace code 'M' and provide more detail on basis of estimates. |
| M2 | Periodic/random monitoring data | This code was added in RY 2007 to replace code 'M' and provide more detail on basis of estimates. |
| NA | Not applicable | |
| O | Other | |

| | | |
|---|---|---|
| X | Invalid Data | This code represents when Basis of Estimate codes not within the defined set of legal codes were reported. |
| Z | Multiple Basis of Estimate Codes reported. A facility can report several transfer amounts or range codes under the same POTW transfer code (P Code) to indicate all the transfers made to the POTW. The quantity listed for any P Code is the sum of those amounts. For each of the amounts, the facility can list a different BOE codes. If there is more than one BOE code listed for all transfers under a P Code, then 'Z' is displayed indicating multiple BOE Codes reported. | |

## APPENDIX B – Chemical Classification - Metals

### Category 1 Metals (Metal_Ind = '1')

| Chemical | CAS# | TRI Chemical ID |
|---|---|---|
| ANTIMONY | 7440-36-0 | 007440360 |
| ANTIMONY COMPOUNDS | N010 | N010 |
| ARSENIC | 7440-38-2 | 007440382 |
| ARSENIC COMPOUNDS | N020 | N020 |
| BERYLLIUM | 7440-41-7 | 007440417 |
| BERYLLIUM COMPOUNDS | N050 | N050 |
| CADMIUM | 7440-43-9 | 007440439 |
| CADMIUM COMPOUNDS | N078 | N078 |
| CHROMIUM | 7440-47-3 | 007440473 |
| CHROMIUM COMPOUNDS (EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION) | N090 | N090 |
| COBALT | 7440-48-4 | 007440484 |
| COBALT COMPOUNDS | N096 | N096 |
| COPPER | 7440-50-8 | 007440508 |
| COPPER COMPOUNDS | N100 | N100 |
| LEAD | 7439-92-1 | 007439921 |
| LEAD COMPOUNDS | N420 | N420 |
| MANGANESE | 7439-96-5 | 007439965 |
| MANGANESE COMPOUNDS | N450 | N450 |
| MERCURY | 7439-97-6 | 007439976 |
| MERCURY COMPOUNDS | N458 | N458 |
| NICKEL | 7440-02-0 | 007440020 |
| NICKEL COMPOUNDS | N495 | N495 |
| SELENIUM | 7782-49-2 | 007782492 |
| SELENIUM COMPOUNDS | N725 | N725 |
| SILVER | 7440-22-4 | 007440224 |
| SILVER COMPOUNDS | N740 | N740 |
| THALLIUM | 7440-28-0 | 007440280 |
| THALLIUM COMPOUNDS | N760 | N760 |
| VANADIUM COMPOUNDS | N770 | N770 |
| ZINC COMPOUNDS | N982 | N982 |

## APPENDIX B – Chemical Classification - Metals (cont.)

### Category 2 Metals (Metal_Ind = '2')

| Chemical | CAS# | TRI Chemical ID |
|---|---|---|
| ALUMINUM OXIDE (FIBROUS FORMS) | 1344-28-1 | 001344281 |
| ALUMINUM PHOSPHIDE | 20859-73-8 | 020859738 |
| ASBESTOS (FRIABLE) | 1332-21-4 | 001332214 |
| BIS(TRIBUTYLTIN) OXIDE | 56-35-9 | 000056359 |
| BORON TRICHLORIDE | 10294-34-5 | 010294345 |
| BORON TRIFLUORIDE | 7637-07-2 | 007637072 |
| C.I. DIRECT BLUE 218 | 28407-37-6 | 028407376 |
| C.I. DIRECT BROWN 95 | 16071-86-6 | 016071866 |
| FENBUTATIN OXIDE | 13356-08-6 | 013356086 |
| FERBAM | 14484-64-1 | 014484641 |
| IRON PENTACARBONYL | 13463-40-6 | 013463406 |

| | | |
|---|---|---|
| LITHIUM CARBONATE | 554-13-2 | 000554132 |
| MANEB | 12427-38-2 | 012427382 |
| METIRAM | 9006-42-2 | 009006422 |
| MOLYBDENUM TRIOXIDE | 1313-27-5 | 001313275 |
| OSMIUM TETROXIDE | 20816-12-0 | 020816120 |
| POTASSIUM BROMATE | 7758-01-2 | 007758012 |
| SODIUM NITRITE | 7632-00-0 | 007632000 |
| THORIUM DIOXIDE | 1314-20-1 | 001314201 |
| TITANIUM TETRACHLORIDE | 7550-45-0 | 007550450 |
| TRIBUTYLTIN FLUORIDE | 1983-10-4 | 001983104 |
| TRIBUTYLTIN METHACRYLATE | 2155-70-6 | 002155706 |
| TRIPHENYLTIN CHLORIDE | 639-58-7 | 000639587 |
| TRIPHENYLTIN HYDROXIDE | 76-87-9 | 000076879 |
| ZINEB | 12122-67-7 | 012122677 |

**Category 3 Metals (Metal_Ind = '3')**

| Chemical | CAS# | TRI Chemical ID |
|---|---|---|
| BARIUM | 7440-39-3 | 007440393 |
| BARIUM COMPOUNDS | N040 | N040 |

**Category 4 Metals (Metal_Ind = '4')**

| Chemical | CAS# | TRI Chemical ID |
|---|---|---|
| ALUMINUM ( FUME OR DUST ) | 7429-90-5 | 007429905 |
| VANADIUM ( EXCEPT WHEN CONTAINED IN AN ALLOY ) | 7440-62-2 | 007440622 |
| ZINC ( FUME OR DUST ) | 7440-66-6 | 007440666 |

## APPENDIX C - Persistent Bio-accumulative Toxics (PBTs)

| Chemical | CAS# | TRI Chemical ID |
|---|---|---|
| ALDRIN | 309-00-2 | 000309002 |
| BENZO(G H I)PERYLENE | 191-24-2 | 000191242 |
| CHLORDANE | 57-74-9 | 000057749 |
| DIOXIN AND DIOXIN-LIKE COMPOUNDS | N150 | N150 |
| HEPTACHLOR | 76-44-8 | 000076448 |
| HEXABROMOCYCLODODECANE | N270 | N270 |
| HEXACHLOROBENZENE | 118-74-1 | 000118741 |
| ISODRIN | 465-73-6 | 000465736 |
| LEAD | 7439-92-1 | 007439921 |
| LEAD COMPOUNDS | N420 | N420 |
| MERCURY | 7439-97-6 | 007439976 |
| MERCURY COMPOUNDS | N458 | N458 |
| METHOXYCHLOR | 72-43-5 | 000072435 |
| OCTACHLOROSTYRENE | 29082-74-4 | 029082744 |
| PENDIMETHALIN | 40487-42-1 | 040487421 |
| PENTACHLOROBENZENE | 608-93-5 | 000608935 |
| POLYCHLORINATED BIPHENYLS | 1336-36-3 | 001336363 |
| POLYCYCLIC AROMATIC COMPOUNDS | N590 | N590 |
| TETRABROMOBISPHENOL A | 79-94-7 | 000079947 |
| TOXAPHENE | 8001-35-2 | 008001352 |
| TRIFLURALIN | 1582-09-8 | 001582098 |

## APPENDIX D – Range Codes

For transfers of Non-Persistent Bio-accumulative chemicals (see Appendix C - Persistent Bio-accumulative Toxics (PBTs)) under 1,000 pounds, facilities can report the amount of the transfer as either a numeric amount or a range code. Midpoints of the ranges are used when displaying or calculating totals. The range codes are defined as follows:

| Code | Range (Pounds) | Mid-Point (Pounds) |
|---|---|---|
| A | 0 – 10 | 5 |
| B | 11-499 | 250 |
| C | 500-999 | 750 |

## APPENDIX E - Dioxin and Dioxin-like Compound Data

In reporting year (RY) 2000, the Toxics Release Inventory Program began collecting congener data for dioxin and dioxin-like compounds to better convey the relative toxicity of these chemicals being released or managed at facilities. From RY 2000 through 2007, Part II, Section 1.4 of the Reporting Form R asked facilities to specify the percentages of the 17 individual chemicals that make up a dioxin or dioxin-like compound for all media (air, water and land). Fields #12-#28 of this file should contain those reported percentages.

In RY 2008, the TRI Program improved collection of dioxin and dioxin-like compounds data by introducing the Form R Schedule One. This new supplemental form allows facilities to report quantities of each of the 17 dioxin congeners.

Although useful, total releases are not the best measure of the actual toxicity of dioxin and dioxin-like compounds because each compound has its own level of toxicity. Both the original reporting of dioxin and dioxin-like congeners and the Form R Schedule One reporting allowed the TRI Program to calculate Toxic Equivalency (TEQ) values for each facility's dioxin releases. TEQs are a weighted quantity measure based on the toxicity of each member of the dioxin and dioxin-like compounds category relative to the most toxic members of the category. The values allow for comparison of the toxicity of different combinations of dioxins and dioxin-like compounds, and help explain the relative toxicity of the TRI chemical release information.

For more information about dioxin and dioxin-like chemical reporting and the calculation of TEQs, see https://www.epa.gov/toxics-release-inventory-tri-program/dioxin-and-dioxin-compounds-toxic-equivalency-information. To download dioxin data from the Form R Schedule One, visit https://www.epa.gov/toxics-release-inventory-tri-program/tri-dioxin-and-dioxin-compounds-and-teq-data-files-calendar.

## APPENDIX F – NAICS Code Assignments

Until RY 2006, the TRI Program used Standard Industrial Codes (SIC) to identify each reporting facility's industry sector. In RY 2006, the TRI Program began using North American Industry Classification System (NAICS) codes.

To allow for analysis of data across years, the TRI Program assigned NAICS codes to each TRI submission from 1987 through 2005. The six methods used to assign NAICS codes and the number and percentages of assignments per method are shown in the table below. The "Order of Precedence" column indicates the order in which the methods were used to make an assignment.

| Method | Order of Precedence | Number of NAICS codes Assigned via Method (in Thousands) | Percentage Per Method |
|---|---|---|---|
| Reported Data Used | 1 | 821K | 50% |
| SIC to NAICS Crosswalk | 2 | 478K | 29% |
| EPA Facility Registry System (FRS) | 3 | 190K | 11% |
| Commercial Sources | 4 | 113K | 7% |
| Statistics | 5 | 51K | 3% |
| Other Methods | 6 | 2K | Less than 1 % |

**Reported Data Used** – In this method, the primary NAICS code reported by each facility in RY 2006 was used to make an assignment to chemical submissions (Form Rs and Form As) for years 1987 to 2005. This method was only used under the following conditions:

1. The RY 2006 chemical submitted had only one primary NAICS code reported
2. The prior year submission(s) for the same chemical had only one primary SIC code consistently reported
3. The SIC to NAICS Crosswalk (obtained for the U.S. Census Bureau) showed a one-to-one match between the reported SIC and NAICS codes

This method was used to assign 50% of all NAICS codes.

**SIC to NAICS Crosswalk** – In this method, the TRI Program used a crosswalk or lookup table that translated SIC codes into NAICS codes to assign a primary NAICS code to a pre-2006 TRI chemical submission. The primary SIC code reported on the TRI form was used to lookup the corresponding NAICS code. Not all SIC codes translated into only one NAICS code, so it was not possible to use this method to assign a NAICS code to each chemical submission. However, it was used to make 29% of all the assignments.

**EPA Facility Registry System (FRS)** – In this method, the TRI Program used NAICS codes found in EPA's Facility Registry System (FRS) to assign a primary NAICS code to each TRI chemical submission. This method was only used if FRS listed only one primary NAICS code for a facility. 11% of all assignments were made using this method.

**Commercial Sources** - This method involved using various commercial services to verify NAICS code assignments. 7% of all assignments were made using this method.

**Statistics –** For 3% of NAICS code assignments, the TRI Program used various statistical methods based on past and present data.

**Other Methods** – Manual research (e.g., using Internet searches and other government agencies' data) and personally contacting facilities helped the TRI Program assign NAICS codes to approximately 2,000 TRI submissions.