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SPECIFICATION GUIDE:

HAZARDOUS WASTE

REPORT SUBMISSIONS



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INTRODUCTION

This document describes the file specifications for reporting data for the Hazardous Waste Report (also called the Biennial Report). The material in this guide covers submissions by States and Regions to EPA Headquarters (HQ). The file specifications in this guide are not intended to be used to cover submissions by individual reporting sites. Also, this guide is only intended to specify the file and data formats for the submission and is not intended to cover any procedural or EPA programmatic issues.

This document is designed to be used in conjunction with the *RCRA Subtitle C Reporting, Instructions and Forms*, that is referenced throughout this document. You should have a complete copy of this document in your possession while using this guide. Copies of this document are available at <https://rcrainfo.epa.gov/rcrainfoweb>.

OVERVIEW OF DOCUMENT

The *File Specification Guide for Hazardous Waste Report Submissions* is divided into four sections:

Section 1 (Introduction) defines the intended audience for this guide, offers a brief description of the forms contained in the *RCRA Subtitle C Reporting, Instructions and Forms*, and describes the general purpose and outline of this document.

Section 2 (Changes from Previous Cycles) outlines the major changes to the file specifications from previous Biennial Report cycles.

Section 3 (Data Submission Overview) describes the overall characteristics for a data submission.

Section 4 (Technical Specifications) discusses the technical details of the data files and programs necessary for data submission.

Appendix A also provides the technical details on how to properly construct the flat files and the business rules that must be met.

INTENDED AUDIENCE

The intended audience for this guide is any State or EPA Region that is using its own software and procedures to extract hazardous waste data from a State or Regional system for submission to EPA HQ for inclusion in the RCRAInfo database for the Hazardous Waste Report; or any commercial software vendor who is preparing software for use/purchase by States and Regions for preparation of State or Regional submission of data for the Hazardous Waste Report.

(Note: States or Regions who use a data collection instrument different than the *RCRA Subtitle C Reporting, Instructions and Forms* developed by EPA HQ are called translators. This guide will serve as guidance for both translators and commercial software vendors.)

This document was written assuming the reader 1) is familiar with the *RCRA Subtitle C Reporting, Instructions and Forms* and 2) understands basic computer concepts and terminology.

HAZARDOUS WASTE REPORT FORMS

The *RCRA Subtitle C Reporting, Instructions and Forms* document captures information from the following forms as they relate to the Hazardous Waste Report:

RCRA SUBTITLE C SITE IDENTIFICATION FORM

The Site Identification Form collects information on the site completing the Biennial Report forms package. The form is divided into nineteen items and two addendums. States and Regions submit Site ID form information via the SI1, SI2, SI3, SI4, SI5, SI6, SI7, SI9, SIA, SIB, SID, and SIE flat files.

Note: The SI8 flat file allows implementers to include State-specific activities in their Biennial Report submission. This information is not found on the RCRA Subtitle C Site Identification Form, but rather is implementer-defined to meet the State's regulatory requirements.

GM FORM

The Waste Generation and Management Form (GM Form) is used for reporting on-site hazardous waste generation, management, and off-site shipment. The GM Form is divided into three sections that document 1) the source, characteristics, and quantity of hazardous waste generated; 2) the quantity of hazardous waste managed on-site along with the management method used; and 3) the quantity of hazardous waste shipped off-site for treatment, disposal, or recycling along with the off-site management method used. States and Regions submit GM form information via the GM1, GM2, GM3, GM4, and GM5 flat files.

WR FORM

The Waste Received from Off-site Form (WR Form) identifies hazardous wastes that were received from other hazardous waste sites and the method(s) used to manage them. The WR Form is divided into three identical parts (i.e., waste blocks), labeled Waste 1, Waste 2, and Waste 3, that collect information on the quantities and characteristics of each hazardous waste received from an off-site source and managed on-site. States and Regions submit WR form information via the WR1, WR2, and WR3 flat files.

OI FORM

The Off-site Identification Form (OI Form) captures the names and addresses of off-site installations and transporters. State and Regions submit OI form information via the OI1 flat file.

DATA FILES

Information gathered from the Hazardous Waste Report is submitted to EPA HQ via a series of flat files. Each form contains information that relates to the form in a one-to-one (1:1) relationship (e.g., GM Form, Section 1, Block D, source code). These data elements are captured in the primary flat file for that form (e.g., SI1, GM1, and WR1). Information that relates to the form in a many-to-one ($n:1$) relationship (e.g., GM Form, Section 1, Block B, EPA hazardous waste codes) is captured in secondary flat files (e.g., GM2, GM3, GM4, GM5, WR2, WR3).

The remainder of this document describes in detail the steps necessary to ensure a successful data submission including identifying which sites should be reported, the types of files that must be included with each submission, and technical aspects of the file creation process.

QUESTIONS/COMMENTS

Questions about this document should be directed to the RCRAInfo team via the User Support Issue Tracking System (USITS) utility in RCRAInfo Version 6. Questions submitted must only concern the file specification for submission of data from the States or EPA Regions to the RCRAInfo database. Questions on submissions of data by individual sites should be directed to the appropriate State or EPA Regional personnel. For a list of the appropriate contacts see: <https://rcrainfo.epa.gov/rcrainfoweb>.

CHANGES FROM PREVIOUS CYCLES

PHARMACEUTICAL HAZARDOUS WASTE FINAL RULE (40 CFR 266 SUBPART P)

To capture information required for the new Pharmaceutical Hazardous Waste Final Rule, the following fields have been added to SI1:

- SUBPART_P_HEALTHCARE
- SUBPART_P_REVERSE_DISTRIBUTOR
- SUBPART_P_WITHDRAWAL

The business rules associated with these new fields are as follows:

- SI1-610: If Subpart P – Healthcare Facility, Subpart P – Reverse Distributor, or Subpart P - Withdrawal equals ‘Y’ then Activity location must be opted into Subpart P.
- SI1-620: Subpart P – Healthcare Facility must equal ‘Y’ or ‘N’.
- SI1-630: Subpart P – Reverse Distributor must equal ‘Y’ or ‘N’.
- SI1-640: Subpart P – Withdrawal must equal ‘Y’ or ‘N’.
- SI1-650: If Subpart P - Healthcare Facility equals ‘Y’ then Subpart P – Reverse Distributor must equal ‘N’.
- SI1-660: If Subpart P – Reverse Distributor equals ‘Y’ then Subpart P - Healthcare Facility must equal ‘N’.
- SI1-670: If Subpart P – Withdrawal equals ‘Y’ then Subpart P – Healthcare Facility must equal ‘N’ and Subpart P – Reverse Distributor must equal ‘N’.
- SI1-680: If Subpart P – Reverse Distributor equals ‘Y’ then at least one GM form must exist where Source Code equals ‘G76’ and Form Code equals ‘W005’.
- GM1-200: If Source Code equals ‘G76’ then Subpart P – Reverse Distributor in SI1 must equal ‘Y’.

Edits SI1-520 and SI1-540 were revised to read as follows:

- SI1-520: If Federal Generator Status equals ‘1’, ‘2’, or ‘3’, or TSD Activity equals ‘Y’ or Recycler Activity equals ‘Y’ or Recycler Activity Non-storage equals ‘Y’ or Small Quantity On-Site Burner Exemption equals ‘Y’ or Smelting, Melting, and Refining Furnace Exemption equals ‘Y’ **or Reverse Distributor equals ‘Y’**, then one waste code record must exist in SI4 or SI5.
- SI1-540: If Location Country does not equal ‘US’ or blank then the following activities must equal ‘N’: Federal Generator Status, Importer Activity, Short-Term Generator, Transfer Facility, TSD Activity, Recycler Activity, Non-storage Recycler Activity, On-site Burner Exemption, Furnace Exemption, Underground Injection Activity, Universal Waste Destination Facility, Used Oil Burner, Used Oil Transfer Facility, Used Oil Processor, Used Oil Refiner, Used Oil Specification Marketer, Used Oil Fuel Marketer, Subpart K-College, Subpart K-Hospital, Subpart K-Non-profit, Subpart K-Withdrawal, Recognized Trader – Importer, Recognized Trader – Exporter, Importer of

Spent Lead Acid Batteries, Exporter of Spent Lead Acid Batteries, Subpart P – Healthcare, and Subpart P – Reverse Distributor.

MIXED WASTE GENERATOR

The Mixed Waste Generator field has been removed from SI1 column 824. This field captured if the site was a generator of mixed waste (waste that was both hazardous and radioactive). This column will not be re-used for the 2019 cycle (i.e., the column will be empty for the 2019 cycle). The following business rules that applied to this field have been removed:

- SI1-290: Mixed Waste Generator must equal 'Y' or 'N'
- SI1-295: If Mixed Waste Generator equals 'Y' then Federal Waste Generator Status cannot equal 'N'

The reference to Mixed Waste Generator has been removed from business rule SI1-540.

HAZARDOUS SECONDARY MATERIAL

The SIC file has been removed. This file captured facilities that were notifying under 40 CFR 260.43(a)(4)(iii) that the product of their recycling process had levels of hazardous constituents that were not comparable to or unable to be compared to a legitimate product or intermediate but that the recycling was still legitimate.

HAZARDOUS SECONDARY MATERIAL (HSM) FACILITY CODES

The definitions of HSM Facility Codes have been revised as follows:

- 07 – Reclaimer receiving HSM from off-site. This code applies if you reclaim hazardous secondary material received from an off-site hazardous secondary material generator or other facility and you certify that you have financial assurance per 40 CFR 260.42.
- 08 – Intermediate facility receiving HSM from off-site. This code applies if you receive hazardous secondary material from an off-site hazardous secondary material generator or another facility, you store it for more than ten days, and you certify that you have financial assurance per 40 CFR 260.42. This code does not apply if you generate or reclaim the hazardous secondary material.
- 09 – HSM Generator exporting HSM to a foreign entity for reclamation. This code applies if you generate and plan to send hazardous secondary material for reclamation to a foreign entity for reclamation and will meet the notice and consent procedures in 40 CFR 261.4(a)(25).
- 10 – HSM Generator importing HSM from a foreign entity to send to another U.S. facility for reclamation. This code applies if you import hazardous secondary material from a foreign entity and send the material to a different U.S. reclamation facility.

- 11 – HSM Generator importing HSM from a foreign entity for reclamation. This code applies if you import hazardous secondary material from a foreign entity and reclaim the material at your facility.

The following HSM Facility Codes have been inactivated:

- 17 - Variance for HSM transferred for reclamation and managed at a verified reclamation facility
- 18 - Variance for HSM transferred and managed at a verified intermediate facility
- 19 - Variance for HSM imported and managed at a verified reclamation facility

SOURCE CODES

The source code, G62, has been activated with the following definition:

- G62 – Hazardous Waste Received from a Foreign Country

The following business rule has been added for this source code:

- GM1-210: If Source Code equals 'G62' then Country Code must equal a country code in LU_COUNTRY.

As a result of activating the 'G62' source code, the following source codes are being inactivated:

- G63 – Hazardous Waste Received From Antarctica
- G64 – Hazardous Waste Received From Aruba
- G65 – Hazardous Waste Received From Bahamas
- G66 – Hazardous Waste Received From Belgium
- G67 – Hazardous Waste Received From Brazil
- G68 – Hazardous Waste Received From Canada
- G69 – Hazardous Waste Received From Holland
- G70 = Hazardous Waste Received From Malaysia
- G71 – Hazardous Waste Received From Mexico
- G72 – Hazardous Waste Received From New Zealand
- G73 – Hazardous Waste Received From Taiwan
- G74 – Hazardous Waste Received From Venezuela
- G75 – Hazardous Waste Received From Other Foreign Country

Two new source codes, G76 and G77, have been added with the following definitions:

- G76 – Evaluated hazardous waste pharmaceuticals accumulated by a reverse distributor
- G77 – Airbag waste received from airbag waste handlers exempted under 40 CFR 261.7(j) prior to arrival at the airbag collection facility or designated facility

FORM CODES

One new form code, W006, has been added with the following definition:

- W006 – Airbag waste (airbag modules or airbag inflators managed as hazardous waste)

MIXED WASTE

A field, Mixed Waste, has been added to GM1 to capture if the hazardous waste reported on the GM form is mixed with nuclear sources, special nuclear, or by-product material. The business rule associated with this field is as follows:

- GM1-220: Mixed Waste must equal 'Y' or 'N'.

MANAGEMENT METHOD CODES

Four new management method codes have been added with the following definitions:

- H011 – Mercury recovery (include mercury retorting, bulb/lamp crushing and mercury vapor recovery, thermostat recovery, mercury from medical equipment recovery, mercury car switch recovery, etc.)
- H015 – Deployment/deactivation of airbag waste followed by metals recovery
- H041 – Open burning/open detonation (should be permitted under Subpart X with process code X01)
- H090 – Polymerization (LDR standard as treatment method)

ADDITIONAL BUSINESS RULES

Two new business rules were added to increase the quality of the data being provided:

- GM1-230: If Source Code equals 'G61' then On-site Management of Hazardous Waste (GM5) cannot be provided.
- WR1-058: Off-site Handler EPA ID cannot equal the Handler ID.

DATA SUBMISSION OVERVIEW

DATA REQUIREMENTS

Data collected via the *RCRA Subtitle C Reporting, Instructions and Forms* may or may not be required to be included in the Hazardous Waste Report submission. For the purposes of this document, “required” refers to data elements that must be provided and cannot have a value of blank (null).

States and Regions are encouraged to provide as much data (required or not required) as possible. This information enhances the analytical usefulness of the Hazardous Waste Report data within RCRAInfo.

State, Regional, and commercial software packages must provide data for required data elements. Flat files containing required data elements include:

- Site ID Form data (RCRA Subtitle C Site Identification Form):
Flat Files SI1, SI2, SI3, SI4, SI6, SI7*
- GM Form data (Waste Generation and Management):
Flat Files GM1, GM2, GM4, and GM5
- WR Form data (Waste Received from Off-site):
Flat Files WR1 and WR2

*Note: The SI7 file is not required for industry users that are uploading their Biennial Report data using the RCRAInfo Industry Application.

States that allow facilities to manage hazardous secondary material under 40 CFR 260.30, 40 CFR 261.4(a)(23), (24), (25), or (27) may submit their required re-notification of hazardous secondary material activity using the following flat files:

- Addendum to the Site Identification Form - Notification of Hazardous Secondary Material Activity:
Flat Files SI9, SIA, and SIB

States that allow LQGs to receive and consolidate hazardous wastes from VSQGs if the VSQGs are under the control of the same “person” as defined in 40 CFR 260.10 may submit their required information using the following flat file:

- Addendum to the Site Identification Form - LQG Consolidation of VSQG Hazardous Waste:
Flat File SIE

All data elements must be properly formatted and meet required data quality standards to be loaded into RCRAInfo. The data quality standards for these elements are presented in Appendix A.

To successfully load data into RCRAInfo, all data elements for every submitted flat file must meet formatting and data quality standards. See Appendix A for specifications on standards and formats for all flat files.

DATA SUBMISSION

It is the responsibility of the State, Regional, or commercial software package to produce a complete set of correctly formatted files for a given State for inclusion in the RCRAInfo database. The RCRAInfo application can only accommodate submissions containing all data for a given State, that is, data for a single site cannot be loaded into RCRAInfo.

Flat files are submitted to RCRAInfo in accordance with the Memorandum of Understanding between the Region and the State. The data is transferred to RCRAInfo in the form of Windows-compatible ZIP files. The RCRAInfo File Transfer Process extracts the files from these zip files and stores the data in Oracle database “staging” tables for further processing.

FLAT FILE SUBMISSIONS

The RCRAInfo application provides an interface for submitters to upload a ZIP file from their local file location to the RCRAInfo staging tables. The uploaded file must be in the form of a ZIP file. These files must be:

- flat files;
- fixed-column formatted;
- formatted such that each record in the file is followed by a carriage return/line feed;
- formatted per the flat file specification’s documented in this booklet.

A submitter is limited to filing data for one State per ZIP file.

Before the file is uploaded, the RCRAInfo interface will validate the zip file name by the following criteria:

- the first three (3) characters are the program abbreviation: RCR
- the next four (4) characters are program-specific: 2-letter State abbreviation followed by the submission number (e.g., KS01).

An example file name would be RCRKS01.ZIP. Note: The user must have Biennial Report Maintenance permissions for the activity location (state code) embedded in the file name.

If the file name does not pass validation, the RCRAInfo interface will provide the submitter with a message describing the error and prompt the submitter to correct the error in order to complete the file upload process.

AMOUNT OF DATA IN A SINGLE SUBMISSION

Each data submission must contain **ALL** data for the State being submitted. Each data submission will overwrite **ALL** existing Hazardous Waste Report data for the current cycle for the State in the RCRAInfo database.

STATES/REGIONS NOT USING THE RCRA SUBTITLE C REPORTING, INSTRUCTIONS AND FORMS

The information contained in this guide is equally applicable to States and Regions who use a different data collection package than the *RCRA Subtitle C Reporting, Instructions and Forms*. Translators are required to provide data equivalent to that collected by the *RCRA Subtitle C Reporting, Instructions and Forms* (required data elements). The following information is provided to help translators become familiar with the steps necessary to ensure a successful data submission:

- Identify all sites for which information is to be translated.
- Access information that is equivalent to the Hazardous Waste Report data.
- Validate that the equivalent data conforms to the appropriate data quality standards.
- Write translated data to appropriate flat files.

IDENTIFY SITES

The State/Region must submit information for sites required to file the Hazardous Waste Report. The criterion that defines these sites is presented in the *RCRA Subtitle C Reporting, Instructions and Forms* under “Sites Required to File the Hazardous Waste Report.” States and Regions are not precluded from submitting information for sites not required to file.

ACCESS EQUIVALENT DATA

The required data elements for the sites being reported must be provided. The translator State/Region must identify, in their system, the data elements and relationships equivalent to the data elements/relationships represented by the flat file specifications provided in Appendix A.

The GM Form, WR Form, and OI Form allow for multiple form submissions by a handler. Translator States/Regions must also accommodate multiple “forms” by a handler as follows:

GM FORM

The GM Form collects data associated with a single reported waste. Translators must provide records in the GM1 – GM5 files for each waste generated or managed during the reporting cycle. Thus, each page number for the GM flat file records represents a **single** reported waste. All GM flat file records containing data associated with the same waste reported for the same EPA ID will have the same page number. Page number takes the value of "1" for the first reported waste on the GM Form and is incremented by one (1) with each following reported waste. (Note: The instructions on assignment of page number for translators are different than for those States/Regions/commercial software vendors supporting the *RCRA Subtitle C Reporting, Instructions and Forms*. For vendors supporting the *RCRA Subtitle, Instructions and Forms*, page number should be the same as the number assigned by the respondent to the actual form.)

WR FORM

The WR Form collects data associated with each reported waste received from off-site. Translators must provide records in the WR1 – WR3 files for each waste received from off-site. All WR flat file records containing data associated with the same received waste reported for the same handler will have the same page number. Page number takes the value of "1" for the first received waste on the WR Form and is incremented by one (1) with each separate received waste reported. The sub-page number for the WR Form data must always be assigned the value of "1". (Note: The instructions on assignment of page number and sub-page number for translators are different than for those States/Regions/commercial software vendors supporting the *RCRA Subtitle C Reporting, Instructions and Forms*. For vendors supporting the *RCRAI Subtitle C Reporting, Instructions and Forms*, page number and sub-page number should be the same as the number assigned by the respondent to the actual form. Sub-page number is '1' for the waste reported in the "Waste 1" block of the WR form, '2' for the waste reported in the "Waste 2" block of the WR form, and '3' for the waste reported in the "Waste 3" block of the WR form.)

OI FORM

The OI Form collects data identifying 1) handlers from whom waste was received and to whom waste was shipped and 2) all transporters used to ship waste during the reporting cycle. These source, destination, and transporting entities are identified by their EPA ID, name, and address. The page number for the OI flat file records represents a single handler record. Page number takes the value of "1" for the first handler record and is incremented by one (1) with each separate handler record reported.

DATA QUALITY/EQUIVALENCY

The State/Region's translator data must provide an accurate representation of hazardous waste activity for that State. In addition, the translator's data must pass a minimum set of data edits (see Appendix A) in order to provide information comparable to data gathered for the Hazardous Waste Report and to be properly loaded into the RCRAInfo database. Any data failing to conform to the appropriate data quality edits will result in the entire data submission to RCRAInfo being rejected.

WRITE TRANSLATED DATA TO FLAT FILES

Translator States/Regions must extract data from their State/Regional system and re-produce the data in the flat file formats outlined in Appendix A. A complete translation may not necessarily include all flat files. For example, a translator submitting SI Form data is not required to include the "SI8" flat file (state activity) since it is non-required data. However, the State/Region is encouraged to include in the Hazardous Waste Report data submission all data (required and non-required) that the State/Region currently collects.

The flat file specifications for the Hazardous Waste Report data are based on a series of parent-child relationships. A parent file (i.e., SI1, GM1, WR1) may have one or more child relationships with other flat files (i.e., SI2-SI8, GM2-GM5, WR2-WR3). Child records may not exist without the existence of the parent record (e.g., a record for site XYZ cannot exist in the GM2 file if a corresponding record does not exist in the GM1 file).

Data for a site should only be included in the Hazardous Waste Report data submission after all records for that site pass all appropriate edit checks. If a site's data is incomplete, then the site's information must not be included in the State's Hazardous Waste Report data submission. **It is not sufficient to eliminate the data element in error and submit the remainder of the site's data.**

TECHNICAL SPECIFICATIONS

This section contains the standards that must be met when producing flat files for the Hazardous Waste Report data submission. Failure to meet these specifications will result in the rejection of the flat files and failure to load the data into the RCRAInfo database.

INCLUDE IN NATIONAL REPORT FLAGS

SI1, GM1, and WR1 file specifications include a field labeled `INCLUDE_IN_NATIONAL_REPORT`. The purpose of this field is to allow implementers to submit additional Hazardous Waste Report data (for purposes of data sharing) but keep that data from being included in the National Biennial Hazardous Waste Report. The field is defined as follows: If the `INCLUDE_IN_NATIONAL_REPORT` flag in the SI1 file is 'N' (No), then all the `INCLUDE_IN_NATIONAL_REPORT` flags for the site must also equal 'N' (No) else the submission will be in error. If the `INCLUDE_IN_NATIONAL_REPORT` flag in the SI1 file is 'Y' (Yes), implementers may set the flag in the GM1 and WR1 file as either 'Y' (Yes) or 'N' (No) to indicate whether that particular waste should be included in the National Biennial Hazardous Waste Report. It is anticipated that many implementers will default the value for these flags to 'Y' (Yes) in all cases, however the specific implementation of how these flags are populated is determined by the implementer.

STATE GENERATOR STATUS

Implementers are required to furnish both the State-specific generator status and the Federal generator status for each site in their submission. Appropriate fields are included in the SI1 file specification for this purpose. It is anticipated that many States whose regulations closely match the federal regulations, either by reference or by inclusion, will choose for the values of these fields to be the same. The method to populate these fields is determined by the implementer, however both fields must be provided or the submission will be rejected.

RULES AND FORMAT CONVENTIONS REQUIRED FOR DATA FLAT FILES

The following sub-sections detail the correct field formats for the data in the flat files.

ALPHANUMERIC FIELDS

Alphanumeric fields are identified in Appendix A as Data Type "A" fields. Data Type "A" fields must be left-justified with all trailing spaces filled with the space character (i.e., ASCII HEX 0x20 or ASCII Decimal 32).

Valid characters for alphanumeric fields are limited to:

~!@#%&*()_+={}| \; , . ? / 1234567890ABCDEFGHIJKLMNPOQRSTUVWXYZ

Invalid characters for alphanumeric fields include:

<>

If the "<" or ">" symbols are used to indicate less than or greater than, it is recommended that these symbols be replaced with "LT" or "GT".

As part of the RCRAInfo load routines, all lowercase letters (a-z) will be converted to uppercase characters (A-Z). Lowercase letters will not cause a submission to be rejected.

INTEGER FIELDS

Integer fields are identified in Appendix A as Data Type "I" fields.

Allowed values for integer fields are numbers 0-9 and the space character (ASCII Hex 0x20 or ASCII Decimal 32).

Examples of incorrect and correct entries for an integer field defined with a length of five (5) are presented in Exhibit 2 below.

INCORRECT	CORRECT
1A	1
10,000	10000
750.25	750

Exhibit 2. Incorrect and Correct Integer Entries

FIXED DECIMAL FIELDS

Fixed place decimal fields are identified in Appendix A as Data Type "D" fields.

For all "D" field entries, the flat file specifications indicate the number of digits that the data element is allowed before the decimal and after the decimal. For example, D11.6 indicates that the number may have up to 11 digits before the decimal and 6 digits after the decimal (99999999999.999999). The field length includes the decimal character.

Allowed values for fixed decimal fields are numbers 0-9, the decimal character ".", and the space character (ASCII Hex 0x20 or ASCII Decimal 32).

Exhibit 3 shows incorrect and correct entries in a type "D5.2" field.

INCORRECT	CORRECT
10,032.1	10032.10
10,032A	10032

Exhibit 3. Incorrect and Correct Fixed Decimal Entries

SEQUENCE NUMBER FIELDS

Some of the files in Appendix A require a sequence number to be provided for each record. The SI3 file, for example, requires a sequence number (NAICS_SEQ) for the NAICS codes. The sequence number is needed for data elements, such as the NAICS code, which may have more than one value. The sequence number should be assigned the value "1" for the first occurrence of the sequenced data element for the EPA ID and should then be incremented by one with each successive occurrence of that same EPA ID.

NEGATIVE NUMBERS

Negative numbers are not allowed in the data submission.

RECORD TERMINATION

Each flat file record must be terminated by a line feed character (ASCII Hex 0x0A or ASCII Decimal 010), or a carriage return character (ASCII Hex 0x0D or ASCII Decimal 013) followed by a line feed character.

EMPTY FIELDS

For fields that require no response, the field should be filled with the space character (i.e., blanks).

CONFIDENTIAL BUSINESS INFORMATION (CBI)

Under existing RCRA statutes, sites may claim that certain items of information submitted as part of their Hazardous Waste Report contain Confidential Business Information (CBI). The procedures for handling CBI can be found in *Procedures for Handling RCRA Confidential Business Information* (available from the EPA HQ RCRA Document Control Officer). A subset of these procedures is documented in *Procedures for Handling RCRA Confidential Business Information Submitted for the Biennial Report*. (Copies of these documents can be requested using the USITS utility in RCRAInfo). In brief, it is not allowable to mingle CBI data with non-CBI data. In addition, CBI data must be handled on a secure computer (either a computer that is kept in a secure environment or a computer that uses removable media where the media is kept in a secure environment). CBI data must be submitted separately from non-CBI data using data handling methods outlined in the *Procedures for Handling RCRA Confidential Business Information* documentation.

In previous Biennial Report cycles, some States/Regions that have received CBI have masked the CBI data (in other words, changed the CBI data so it no longer is CBI). This practice is not a requirement of EPA HQ, but as long as the masking is acceptable to the site and the implementer, and the data meets the minimum edit standards as detailed in the appendices, this solution is acceptable.

APPENDIX A

Flat File Specifications and Data Edits

KEY FOR FLAT FILE TABLES

Data Type

A	Alphanumeric
I	Integer
D	Fixed Decimal

FLAT FILE NAMING CONVENTION

Flat files names are constructed in the following manner:

SSFFNNN.FIL

Where:

SS	=	State Postal Code
FFF	=	Flat file identifier (for example, GM1 or GM2)
NNN	=	Julian Date when file was created

Note: The three-character file ID distinguishes each flat file produced during the translation. For example, the correct name for the SI3 file, containing KS data, produced on January 4th, is KSSI3004.FIL.

FLAT FILE SPECIFICATIONS AND DATA EDITS

FLAT FILE ID# - SI1

Source Form: Site ID **Description:** Handler Identification, Address, and Hazardous Waste Activities Information

This file must contain one and only one record for each Handler ID reporting. Also, any Handler ID appearing as the key in ANY of the “GM” or “WR” files must also be present in this file.

Key Fields: Handler ID (HANDLER_ID). Each record in the SI1 file must contain a unique Handler ID.

Note: The SI1 file is REQUIRED. One record must be provided for each handler.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number	SI-2	Required	SI1-010, SI1-015, SI1-490, SI1-500, SI1-510, SI1-520, SI1-530
RECEIVE_DATE	13	8	Date	Received Date		Required	SI1-016
HANDLER_NAME	21	80	A	Handler Name	SI-3	Required	SI1-020
LOCATION_STREET_NO	101	12	A	Location Street Number	SI-4		
LOCATION_STREET1	113	50	A	Location Street 1	SI-4	Required	SI1-030
LOCATION_STREET2	163	50	A	Location Street 2	SI-4		
LOCATION_CITY	213	25	A	Location City	SI-4	Required	SI1-040
LOCATION_STATE	238	2	A	Location State	SI-4	Cond. Required	SI1-050, SI1-060
LOCATION_ZIP	240	14	A	Location Zip	SI-4	Required	SI1-070, SI1-075

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
COUNTY_CODE	254	5	A	Location County Code	SI-4	Cond. Required	SI1-080, SI1-085
LOCATION_COUNTRY	259	2	A	Location Country Code	SI-4		SI1-050, SI1-060, SI1-075, SI1-080, SI1-085, SI1-090, SI1-530, SI1-540
STATE_DISTRICT	261	10	A	State District			SI1-095
MAIL_STREET_NO	271	12	A	Mailing Street Number	SI-5		
MAIL_STREET1	283	50	A	Mailing Street 1	SI-5	Required	SI1-100
MAIL_STREET2	333	50	A	Mailing Street 2	SI-5		
MAIL_CITY	383	25	A	Mailing City	SI-5	Required	SI1-110
MAIL_STATE	408	2	A	Mailing State	SI-5	Cond. Required	SI1-120, SI1-130
MAIL_ZIP	410	14	A	Mailing Zip	SI-5	Required	SI1-140, SI1-145
MAIL_COUNTRY	424	2	A	Mailing Country Code	SI-5		SI1-120, SI1-130, SI1-145, SI1-150
LAND_TYPE	426	1	A	Site Land Type	SI-6	Required	SI1-160
CONTACT_FIRST_NAME	427	38	A	Contact First Name	SI-8	Required	SI1-170
CONTACT_MIDDLE_INITIAL	465	1	A	Contact Middle Initial	SI-8		
CONTACT_LAST_NAME	466	38	A	Contact Last Name	SI-8	Required	SI1-180
CONTACT_STREET_NO	504	12	A	Contact Street Number	SI-8		
CONTACT_STREET1	516	50	A	Contact Street 1	SI-8		
CONTACT_STREET2	566	50	A	Contact Street 2	SI-8		
CONTACT_CITY	616	25	A	Contact City	SI-8		

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
CONTACT_STATE	641	2	A	Contact State	SI-8		SI1-190, SI1-200
CONTACT_ZIP	643	14	A	Contact Zip	SI-8		SI1-215
CONTACT_COUNTRY	657	2	A	Contact Country	SI-8		SI1-190, SI1-200, SI1-210, SI1-215, SI1-225, SI1-226
CONTACT_PHONE	659	15	A	Contact Phone Number	SI-8	Required	SI1-220, SI1-225
CONTACT_PHONE_EXT	674	6	A	Contact Phone Number Extension	SI-8		
CONTACT_FAX	680	15	A	Contact Fax Number	SI-8		SI1-226
CONTACT_TITLE	695	45	A	Contact Title	SI-8		
CONTACT_EMAIL	740	80	A	Contact E-mail Address	SI-8		SI1-230
FED_WASTE_GENERATOR	820	1	A	Federal Generator Status	SI-10-A-1	Required	SI1-240, SI1-275, SI1-295, SI1-520, SI1-540
STATE_WASTE_GENERATOR	821	1	A	State Generator Status		Required	SI1-260
SHORT_TERM_GENERATOR	822	1	A	Short Term or Temporary Generator	SI-10-A-2	Required	SI1-270, SI1-275, SI1-277, SI1-278, SI1-540
IMPORTER_ACTIVITY	823	1	A	U.S. Importer of Hazardous Waste	SI-11-A-3	Required	SI1-280, SI1-540
COLUMN NO LONGER USED	824	1					
TRANSPORTER	825	1	A	Transporter of Hazardous Waste	SI-11-A-1-a	Required	SI1-300
TRANSFER_FACILITY	826	1	A	Transfer Facility of Hazardous Waste	SI-11-A-1-b	Required	SI1-310, SI1-540

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
TSD_ACTIVITY	827	1	A	Treater, Storer, or Disposer of Hazardous Waste in a Permitted Unit	SI-10-A-3	Required	SI1-320, SI1-520, SI1-540
RECYCLER_ACTIVITY	828	1	A	Recycler of Hazardous Waste Who Stores Prior to Recycling	SI-10-A-5-a	Required	SI1-330, SI1-334, SI1-335, SI1-520, SI1-540
ONSITE_BURNER_EXEMPTION	829	1	A	Small Quantity On-Site Burner Exemption	SI-10-A-6-a	Required	SI1-340, SI1-520, SI1-540
FURNACE_EXEMPTION	830	1	A	Smelting, Melting, and Refining Furnace Exemption	SI-10-A-6-b	Required	SI1-350, SI1-520, SI1-540
UNDERGROUND_INJECTION_ACTIVITY	831	1	A	Underground Injection Control	SI-11-A-2	Required	SI1-360, SI1-540
OFF_SITE_RECEIPT	832	1	A	Received Hazardous Waste from Off-site	SI-10-A-4	Required	SI1-362
UNIVERSAL_WASTE_DEST_FACILITY	833	1	A	Destination Facility for Universal Waste	SI-11-B-2	Required	SI1-365, SI1-540
USED_OIL_TRANSPORTER	834	1	A	Used Oil Transporter	SI-11-C-1-a	Required	SI1-370
USED_OIL_TRANSFER_FACILITY	835	1	A	Used Oil Transfer Facility	SI-11-C-1-b	Required	SI1-380, SI1-540
USED_OIL_PROCESSOR	836	1	A	Used Oil Processor	SI-11-C-2-a	Required	SI1-390, SI1-540
USED_OIL_REFINER	837	1	A	Used Oil Re-refiner	SI-11-C-2-b	Required	SI1-400, SI1-540
USED_OIL_BURNER	838	1	A	Off-Specification Used Oil Burner	SI-11-C-3	Required	SI1-410, SI1-540
USED_OIL_MARKET_BURNER	839	1	A	Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner	SI-11-C-4-a	Required	SI1-420, SI1-540

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
USED_OIL_SPEC_MARKETER	840	1	A	Marketer Who First Claims the Used Oil Meets the Specifications	SI-11-C-4-b	Required	SI1-430, SI1-540
SUBPART_K_COLLEGE	841	1	A	Opting into or Currently Operating under 40 CFR Part 262 Subpart K as a College or University	SI-12-A-1	Required	SI1-440, SI1-475, SI1-540, SI1-550
SUBPART_K_HOSPITAL	842	1	A	Opting into or Currently Operating under 40 CFR Part 262 Subpart K as a Teaching Hospital	SI-12-A-2	Required	SI1-450, SI1-475, SI1-540, SI1-550
SUBPART_K_NONPROFIT	843	1	A	Opting into or Currently Operating under 40 CFR Part 262 Subpart K as a Non-profit Research Institute	SI-12-A-3	Required	SI1-460, SI1-475, SI1-540, SI1-550
SUBPART_K_WITHDRAWAL	844	1	A	Withdrawing from 40 CFR Part 262 Subpart K	SI-12-B	Required	SI1-470, SI1-475, SI1-540, SI1-550
INCLUDE_IN_NATIONAL_REPORT	845	1	A	Include this Information in the National Hazardous Waste Report		Required	SI1-480
RECYCLER_ACTIVITY_NONSTORAGE	846	1	A	Recycler of Hazardous Waste Who does not Store Prior to Recycling	SI-10-A-5-b	Required	SI1-333, SI1-334, SI1-335, SI1-520, SI1-540
RECOGNIZED_TRADER_IMPORTER	847	1	A	Recognized Trader – Importer	SI-11-A-4-a	Required	SI1-540, SI1-560
RECOGNIZED_TRADER_EXPORTER	848	1	A	Recognized Trader – Exporter	SI-11-A-4-b	Required	SI1-540, SI1-570
SLAB_IMPORTER	849	1	A	Importer of Spent Lead Acid Batteries	SI-11-A-5-a	Required	SI1-540, SI1-580

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
SLAB_EXPORTER	850	1	A	Exporter of Spent Lead Acid Batteries	SI-11-A-5-b	Required	SI1-540, SI1-590
MANIFEST_BROKER	851	1	A	Electronic Manifest Broker	SI-17	Required	SI1-600
INTERNAL_NOTES	852	1000	A	Internal Comments / Notes			
PUBLIC_NOTES	1852	1000	A	Public Comments / Notes	SI-18		
SHORT_TERM_GENERATOR_NOTES	2852	240	A	Short-term Generator Comments / Notes	SI-18	Cond. Required	SI1-277, SI1-278
SUBPART_P_HEALTHCARE	3092	1	A	Operating under 40 CFR 266 Subpart P as a Healthcare Facility	SI-11-D-1-a	Required	SI1-540, SI1-610, SI1-620, SI1-650, SI1-660, SI1-670
SUBPART_P_REVERSE_DISTRIBUTOR	3093	1	A	Operating under 40 CFR 266 Subpart P as a Reverse Distributor	SI-11-D-1-b	Required	SI1-520, SI1-540, SI1-610, SI1-630, SI1-650, SI1-660, SI1-670, SI1-680,
SUBPART_P_WITHDRAWAL	3094	1	A	Withdrawing from operating under 40 CFR 266 Subpart P as a Healthcare Facility	SI-11-D-2	Required	SI1-610, SI1-640, SI1-670
Total Record Length:		3094					

S11 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
SI1-010	The first two characters of the EPA ID must match the state code for which data is being submitted.	SUBSTR(HANDLER_ID,1,2) = state postal code of submission
SI1-015	Handler ID must be at least four characters and no more than twelve characters.	LENGTH(HANDLER_ID) >= 4 and LENGTH(HANDLER_ID) <= 12
SI1-016	Receive Date must be greater than January 1 of the reporting cycle and no later than today.	RECEIVE_DATE >= '20??0101' and RECEIVE_DATE <= today
SI1-020	Handler Name must be provided.	HANDLER_NAME <> ''
SI1-030	Location Street1 must be provided.	LOCATION_STREET1 <> ''
SI1-040	Location City must be provided.	LOCATION_CITY <> ''
SI1-050	If Location Country equals 'US' or blank and Handler ID does not begin with 'NN' then Location State must equal the first two characters of the Handler ID.	If LOCATION_COUNTRY = 'US' or '' and SUBSTR(HANDLER_ID,1,2) <> 'NN' Then LOCATION_STATE = SUBSTR(HANDLER_ID,1,2)
	If Location Country equals 'US' or blank and Handler ID begins with 'NN' then Location State must equal a state postal code in LU_STATE.	If LOCATION_COUNTRY = 'US' or '' and SUBSTR(HANDLER_ID,1,2) = 'NN' Then LOCATION_STATE = state postal code in LU_STATE
SI1-060	If Location Country does not equal 'US' or blank, then Location State must equal a foreign state in LU_FOREIGN_STATE or blank.	If LOCATION_COUNTRY <> 'US' or '' Then LOCATION_STATE = foreign state in LU_FOREIGN_STATE or ''
SI1-070	Location Zip must be provided.	LOCATION_ZIP <> ''
SI1-075	If Location Country equals 'US' or blank, then Location Zip must be one of the following formats: 99999 or 99999-9999 or 999999999 where '9' is any numeric value.	If LOCATION_COUNTRY = 'US' or '' Then LOCATION_ZIP is formatted as 99999 or 99999-9999 or 999999999.
SI1-080	If Location Country equals 'US' or blank, then Location County must equal a county code in LU_COUNTY.	If LOCATION_COUNTRY = 'US' or '' Then COUNTY_CODE = county code in LU_COUNTY
SI1-085	If Location Country does not equal 'US' or blank, then Location County must be blank.	If LOCATION_COUNTRY <> 'US' or '' Then LOCATION_COUNTY = ''
SI1-090	Location Country must equal a country code in LU_COUNTRY or blank. If Location Country is blank, a value of 'US' will be assumed.	LOCATION_COUNTRY = country code in LU_COUNTRY or ''
SI1-095	State District must equal an implementer-defined value in LU_STATE_DISTRICT or blank.	STATE_DISTRICT = implementer-defined value in LU_STATE_DISTRICT or STATE_DISTRICT = ''.

S11 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
S11-100	Mail Street1 must be provided.	MAIL_STREET1 <> ''
S11-110	Mail City must be provided.	MAIL_CITY <> ''
S11-120	If Mail Country equals 'US' or blank, then Mail State must equal a state postal code in LU_STATE.	If MAIL_COUNTRY = 'US' or '' Then MAIL_STATE = state postal code in LU_STATE
S11-130	If Mail Country does not equal 'US' or blank, then Mail State must equal a foreign state in LU_FOREIGN_STATE or blank.	If MAIL_COUNTRY <> 'US' or '' Then MAIL_STATE = foreign state in LU_FOREIGN_STATE or ''
S11-140	Mail Zip must be provided.	MAIL_ZIP <> ''
S11-145	If Mail Country equals 'US' or blank, then Mail Zip must be one of the following formats: 99999 or 99999-9999 or 999999999 where '9' is any numeric value.	If MAIL_COUNTRY = 'US' or '' Then MAIL_ZIP is formatted as 99999 or 99999-9999 or 999999999.
S11-150	Mail Country must equal a country code in LU_COUNTRY or blank. If Mail Country is blank, a value of 'US' will be assumed.	MAIL_COUNTRY = country code in LU_COUNTRY or ''
S11-160	Land Type must equal 'P', 'C', 'D', 'F', 'I', 'M', 'S', or 'O'.	LAND_TYPE = 'P' or 'C' or 'D' or 'F' or 'I' or 'M' or 'S' or 'O'
S11-170	Contact First Name must be provided.	CONTACT_FIRST_NAME <> ''
S11-180	Contact Last Name must be provided.	CONTACT_LAST_NAME <> ''
S11-190	If Contact Country equals 'US' or blank, then Contact State must equal a state post code in LU_STATE or blank.	If CONTACT_COUNTRY = 'US' or '' Then CONTACT_STATE = state postal code in LU_STATE or ''
S11-200	If Contact Country does not equal 'US' or blank, then Contact State must equal a foreign state in LU_FOREIGN_STATE or blank.	If CONTACT_COUNTRY <> 'US' or '' Then CONTACT_STATE = foreign state in LU_FOREIGN_STATE or ''
S11-210	Contact Country must equal a country code in LU_COUNTRY or blank. If Contact Country is blank, a value of 'US' will be assumed.	CONTACT_COUNTRY = country code in LU_COUNTRY or ''
S11-215	If Contact Country equals 'US' or blank and Contact Zip is provided, then Contact Zip must be one of the following formats: 99999 or 99999-9999 or 999999999 where '9' is any numeric value.	If (CONTACT_COUNTRY = 'US' or '') and CONTACT_ZIP <> '' Then CONTACT_ZIP is formatted as 99999 or 99999-9999 or 999999999.
S11-220	Contact Phone must be provided.	CONTACT_PHONE <> ''

SI1 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
SI1-225	If Contact Country is equal 'US' or blank then Contact Phone must be formatted as 999-999-9999 or 9999999999 where "9" is any numeric value.	If CONTACT_COUNTRY = 'US' or '' Then CONTACT_PHONE is formatted as 9999999999 or 999-999-9999.
SI1-226	If Contact Country is equal 'US' or blank and Contact Fax is provided then Contact Fax must be formatted as 999-999-9999 or 9999999999 where "9" is any numeric value.	If (CONTACT_COUNTRY = 'US' or '') and CONTACT_FAX <> '' Then CONTACT_FAX is formatted as 9999999999 or 999-999-9999.
SI1-230	If Contact Email is provided, then Contact Email must be formatted as a@a.a where "a" is at least one alphanumeric value.	If CONTACT_EMAIL <> '' Then CONTACT_EMAIL is formatted as a@a.a.
SI1-240	Federal Waste Generator Status must equal a headquarter-defined generator status in LU_GENERATOR_STATUS.	FED_WASTE_GENERATOR = headquarter-defined generator status in LU_GENERATOR_STATUS
SI1-260	State Waste Generator Status must equal a implementer-defined generator status in LU_GENERATOR_STATUS.	STATE_WASTE_GENERATOR = implementer-defined generator status in LU_GENERATOR_STATUS
SI1-270	Short Term Generator must equal 'Y' or 'N'.	SHORT_TERM_GENERATOR = 'Y' or 'N'
SI1-275	If Short Term Generator equals 'Y', then Federal Waste Generator Status cannot equal 'N'.	If SHORT_TERM_GENERATOR = 'Y' Then FED_WASTE_GENERATOR <> 'N'
SI1-277	If Short Term Generator equals 'Y', then Short-term Generator Notes must be provided.	If SHORT_TERM_GENERATOR = 'Y' Then SHORT_TERM_GENERATOR_NOTES <> ''
SI1-278	If Short Term Generator equals 'N', then Short-term Generator Notes cannot be provided.	If SHORT_TERM_GENERATOR = 'N' Then SHORT_TERM_GENERATOR_NOTES = ''
SI1-280	Importer Activity must equal 'Y' or 'N'.	IMPORTER_ACTIVITY = 'Y' or 'N'
SI1-300	Transporter Activity must equal 'Y' or 'N'	TRANSPORTER_ACTIVITY = 'Y' or 'N'
SI1-310	Transfer Facility must equal 'Y' or 'N'	TRANSFER_FACILITY = 'Y' or 'N'
SI1-320	TSD Activity must equal 'Y' or 'N'	TSD_ACTIVITY = 'Y' or 'N'
SI1-330	Recycler Activity must equal 'Y' or 'N'	RECYCLER_ACTIVITY = 'Y' or 'N'
SI1-333	Non-storage Recycler Activity must equal 'Y' or 'N'	RECYCLER_ACTIVITY_NONSTORAGE = 'Y' or 'N'
SI1-334	If Recycler Activity equals 'Y' then Non-storage Recycler Activity must equal 'N'	If RECYCLER_ACTIVITY = 'Y' Then RECYCLER_ACTIVITY_NONSTORAGE = 'N'
SI1-335	If Recycler Activity Non-storage equals 'Y' then Recycler Activity must equal 'N'	If RECYCLER_ACTIVITY_NONSTORAGE = 'Y' Then RECYCLER_ACTIVITY = 'N'

S11 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
S11-340	Small Quantity On-Site Burner Exemption must equal 'Y' or 'N'	ONSITE_BURNER_EXEMPTION = 'Y' or 'N'
S11-350	Smelting, Melting, and Refining Furnace Exemption must equal 'Y' or 'N'	FURNACE_EXEMPTION = 'Y' or 'N'
S11-360	Underground Injection Control must equal 'Y' or 'N'	UNDERGROUND_INJECTION_ACTIVITY = 'Y' or 'N'
S11-362	Received Hazardous Waste from Off-site must equal 'Y' or 'N'	OFF_SITE_RECEIPT = 'Y' or 'N'
S11-365	Destination Facility for Universal Waste must equal 'Y' or 'N'	UNIVERSAL_WASTE_DEST_FACILITY = 'Y' or 'N'
S11-370	Used Oil Transporter must equal 'Y' or 'N'	USED_OIL_TRANSPORTER = 'Y' or 'N'
S11-380	Used Oil Transfer Facility must equal 'Y' or 'N'	USED_OIL_TRANSFER_FACILITY = 'Y' or 'N'
S11-390	Used Oil Processor must equal 'Y' or 'N'	USED_OIL_PROCESSOR = 'Y' or 'N'
S11-400	Used Oil Re-refiner must equal 'Y' or 'N'	USED_OIL_REFINER = 'Y' or 'N'
S11-410	Off-Specification Used Oil Burner must equal 'Y' or 'N'	USED_OIL_BURNER = 'Y' or 'N'
S11-420	Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner must equal 'Y' or 'N'	USED_OIL_MARKET_BURNER = 'Y' or 'N'
S11-430	Marketer Who First Claims the Used Oil Meets the Specifications must equal 'Y' or 'N'	USED_OIL_SPEC_MARKETER = 'Y' or 'N'
S11-440	Opting into or currently operating under 40 CFR Part 262 Subpart K as a College or University must equal 'Y' or 'N'	SUBPART_K_COLLEGE = 'Y' or 'N'
S11-450	Opting into or currently operating under 40 CFR Part 262 Subpart K as a Teaching Hospital must equal 'Y' or 'N'	SUBPART_K_HOSPITAL = 'Y' or 'N'
S11-460	Opting into or currently operating under 40 CFR Part 262 Subpart K as a Non-profit Research Institute must equal 'Y' or 'N'	SUBPART_K_NONPROFIT = 'Y' or 'N'
S11-470	Withdrawing from 40 CFR Part 262 Subpart K must equal 'Y' or 'N'	SUBPART_K_WITHDRAWAL = 'Y' or 'N'

SI1 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
SI1-475	If Withdrawing from 40 CFR Part 262 Subpart K equals 'Y' then Opting into or currently operating under 40 CFR Part 262 Subpart K as a College or University must equal 'N' and Opting into or currently operating under 40 CFR Part 262 Subpart K as a Teaching Hospital must equal 'N' and Opting into or currently operating under 40 CFR Part 262 Subpart K as a Non-profit Research Institute must equal 'N'	If SUBPART_K_WITHDRAWAL = 'Y' Then SUBPART_K_COLLEGE = 'N' and SUBPART_K_HOSPITAL = 'N' and SUBPART_K_NONPROFIT = 'N'
SI1-480	Include this Information in the National Hazardous Waste Report must equal 'Y' or 'N'	INCLUDE_IN_NATIONAL_REPORT = 'Y' or 'N'
SI1-490	For each handler in SI1, one NAICS record must exist in SI3 where the NAICS Sequence equals 1.	For each HANDLER_ID in SI1 there must be a record in SI3 where NAICS_SEQ = 1.
SI1-500	For each handler in SI1, one certification record must exist in SI7 where the Certification Sequence equals 1.	For each HANDLER_ID in SI1 there must be a record in SI7 where CERT_SEQ = 1.
SI1-510	For each handler in SI1, at least one owner record must exist in SI2 where the Owner / Operator Indicator equals 'CO' and at least one operator record must exist in SI2 where the Owner / Operator Indicator equals 'CP'.	For each HANDLER_ID in SI1 there must be a record in SI2 where OWNER_OPERATOR_INDICATOR = 'CO' and a record in SI2 where OWNER_OPERATOR_INDICATOR = 'CP'
SI1-520	If Federal Generator Status equals '1', '2', or '3', or TSD Activity equals 'Y' or Recycler Activity equals 'Y' or Recycler Activity Non-storage equals 'Y' or Small Quantity On-Site Burner Exemption equals 'Y' or Smelting, Melting, and Refining Furnace Exemption equals 'Y' or Reverse Distributor equals 'Y', then one waste code record must exist in SI4 or SI5.	If FED_WASTE_GENERATOR = '1' or '2' or '3' or TSD_ACTIVITY = 'Y' or RECYCLER_ACTIVITY = 'Y' or RECYCLER_ACTIVITY_NONSTORAGE = 'Y' or ONSITE_BURNER_EXEMPTION = 'Y' or FURNACE_EXEMPTION = 'Y' or REVERSE_DISTRIBUTOR = 'Y' Then there must be a record in SI4 or SI5 where HANDLER_ID in SI4 or SI5 = HANDLER_ID in SI1.
SI1-530	If Location Country does not equal 'US' or blank Then HSM data cannot be provided.	If LOCATION_COUNTRY <> 'US' or '' Then there cannot be a record in SI9 where HANDLER_ID in SI1 = HANDLER_ID in SI9.

S11 Flat File Edit Specifications

Edit Number	Edit Description	Select Logic
S11-540	If Location Country does not equal 'US' or blank then the following activities must equal 'N': Federal Generator Status, Importer Activity, Short-Term Generator, Transfer Facility, TSD Activity, Recycler Activity, Non-storage Recycler Activity, On-site Burner Exemption, Furnace Exemption, Underground Injection Activity, Universal Waste Destination Facility, Used Oil Burner, Used Oil Transfer Facility, Used Oil Processor, Used Oil Refiner, Used Oil Specification Marketer, Used Oil Fuel Marketer, Subpart K-College, Subpart K-Hospital, Subpart K-Non-profit, Subpart K-Withdrawal, Recognized Trader – Importer, Recognized Trader – Exporter, Importer of Spent Lead Acid Batteries, Exporter of Spent Lead Acid Batteries, Subpart P – Healthcare, and Subpart P – Reverse Distributor.	If LOCATION_COUNTRY <> 'US' or ' ' Then FED_WASTE_GENERATOR = 'N' and IMPORTER_ACTIVITY = 'N' and SHORT_TERM_GENERATOR = 'N' and TRANSFER_FACILITY = 'N' and TSD_ACTIVITY = 'N' and RECYCLER_ACTIVITY = 'N' and RECYCLER_ACTIVITY_NONSTORAGE = 'N' and ONSITE_BURNER_EXEMPTION = 'N' and FURNACE_EXEMPTION = 'N' and UNDERGROUND_INJECTION_ACTIVITY = 'N' and UNIVERSAL_WASTE_DEST_FACILITY = 'N' and USED_OIL_BURNER = 'N' and USED_OIL_TRANSFER_FACILITY = 'N' and USED_OIL_PROCESSOR = 'N' and USED_OIL_REFINER = 'N' and USED_OIL_SPEC_MARKETER = 'N' and SUBPART_K_COLLEGE = 'N' and SUBPART_K_HOSPITAL = 'N' and SUBPART_K_NONPROFIT = 'N' and SUBPART_K_WITHDRAWAL = 'N' and RECOGNIZED_TRADER_IMPORTER = 'N' and RECOGNIZED_TRADER_EXPORTER = 'N' and SLAB_IMPORTER = 'N' and SLAB_EXPORTER = 'N' and SUBPART_P_HEALTHCARE = 'N' and SUBPART_P_REVERSE_DISTRIBUTOR = 'N'
S11-550	If Subpart K – College, Subpart K-Hospital, Subpart K – Non-profit, or Subpart K – Withdrawal = 'Y' Then Activity Location must be opted in to Subpart K	If SUBPART_K_COLLEGE = 'Y' or SUBPART_K_HOSPITAL = 'Y' or SUBPART_K_NONPROFIT = 'Y' or SUBPART_K_WITHDRAWAL = 'Y' Then RCRA_LU_ACTIVITY_LOC_SETTINGS.SUBPART_K = 'Y'
S11-560	Recognized Trader – Importer must equal 'Y' or 'N'	RECOGNIZED_TRADER_IMPORTER = 'Y' or 'N'
S11-570	Recognized Trader – Exporter must equal 'Y' or 'N'	RECOGNIZED_TRADER_EXPORTER = 'Y' or 'N'
S11-580	Importer of Spent Lead Acid Batteries must equal 'Y' or 'N'	SLAB_IMPORTER = 'Y' or 'N'
S11-590	Exporter of Spent Lead Acid Batteries must equal 'Y' or 'N'	SLAB_EXPORTER = 'Y' or 'N'
S11-600	Electronic Manifest Broker must equal 'Y' or 'N'	MANIFEST_BROKER = 'Y' or 'N'
S11-610	If Subpart P – Healthcare, Subpart P – Reverse Distributor, or Subpart P - Withdrawal equals 'Y' then Activity Location must be opted into Subpart P.	If SUBPART_P_HEALTHCARE = 'Y' or SUBPART_P_REVERSE_DISTRIBUTOR = 'Y' or SUBPART_P_WITHDRAWAL = 'Y' Then RCRA_LU_ACTIVITY_LOC_SETTINGS.SUBPART_P = 'Y'
S11-620	Subpart P – Healthcare must equal 'Y' or 'N'	SUBPART_P_HEALTHCARE = 'Y' or 'N'
S11-630	Subpart P – Reverse Distributor must equal 'Y' or 'N'	SUBPART_P_REVERSE_DISTRIBUTOR = 'Y' or 'N'

S11 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
S11-640	Subpart P – Withdrawal must equal 'Y' or 'N'	SUBPART_P_WITHDRAWAL = 'Y' or 'N'
S11-650	If Subpart P – Healthcare equals 'Y' then Subpart P – Reverse Distributor must equal 'N'	If SUBPART_P_HEALTHCARE = 'Y' Then SUBPART_P_REVERSE_DISTRIBUTOR = 'N'
S11-660	If Subpart P – Reverse Distributor equals 'Y' then Subpart P – Healthcare must equal 'N'	If SUBPART_P_REVERSE_DISTRIBUTOR = 'Y' Then SUBPART_P_HEALTHCARE = 'N'
S11-670	If Subpart P – Withdrawal equals 'Y' then Subpart P – Healthcare must equal 'N' and Subpart P – Reverse Distributor must equal 'N'	If SUBPART_P_WITHDRAWAL = 'Y' Then SUBPART_P_HEALTHCARE = 'N' and SUBPART_P_REVERSE_DISTRIBUTOR = 'N'
S11-680	If Subpart P – Reverse Distributor equals 'Y' then at least one GM form must exist where Source Code equals 'G76' and Form Code equals 'W005'.	If SUBPART_P_REVERSE_DISTRIBUTOR = 'Y' Then there must be a record in GM1 where HANDLER_ID in GM1 = HANDLER_ID in S11 and SOURCE_CODE = 'G76' and FORM_CODE = 'W005'

FLAT FILE ID# - SI2

Source Form: Site ID **Description:** Owner/Operator Name and Address

This file reports the owner and operator name and address for each site. The relationship of these data records to the reported site is *n:1*, that is, there can be multiple owner and operator names and addresses for each site.

Key Fields: Handler ID (HANDLER_ID); Owner/Operator Sequence Number (OWNER_OPERATOR_SEQ). Each record in the SI2 file must contain a unique combination of the Handler ID and Owner/Operator Sequence Number.

Note: The SI2 file is REQUIRED. At least two records must be provided for each handler – one record for the current owner and one record for the current operator.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number	SI-2	Required	SI2-010
OWNER_OPERATOR_SEQ	13	6	I	Owner/Operator Sequence Number		Required	SI2-020
OWNER_OPERATOR_INDICATOR	19	2	A	Owner/Operator Indicator		Required	SI2-030
OWNER_OPERATOR_NAME	21	80	A	Owner/Operator Name	SI-9	Required	SI2-040
DATE_BECAME_CURRENT	101	8	Date	Date the Owner/Operator Became Current	SI-9		SI2-050
OWNER_OPERATOR_TYPE	109	1	A	Owner/Operator Type	SI-9	Required	SI2-060
STREET_NO	110	12	A	Owner/Operator Street Number	SI-9		
STREET1	122	50	A	Owner/Operator Street 1	SI-9	Required	SI2-140
STREET2	172	50	A	Owner/Operator Street 2	SI-9		
CITY	222	25	A	Owner/Operator City	SI-9	Required	SI2-150
STATE	247	2	A	Owner/Operator State	SI-9	Cond. Required	SI2-070, SI2-080
ZIP	249	14	A	Owner/Operator Zip	SI-9	Required	SI2-095, SI2-100

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
COUNTRY	263	2	A	Owner/Operator Country	SI-9		SI2-070, SI2-080, SI2-090, SI2-100, SI2-110, SI2-130
PHONE	265	15	A	Owner/Operator Phone Number	SI-9		SI2-110
PHONE_EXT	280	6	A	Owner/Operator Phone Number Extension	SI-9		
FAX	286	15	A	Owner/Operator Fax	SI-9		SI2-130
EMAIL	301	80	A	Owner/Operator Email	SI-9		SI2-120
PUBLIC_NOTES	381	1000	A	Comments / Notes	SI-9		
Total Record Length:		1380					

SI2 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
SI2-010	Handler ID must exist in SI1	HANDLER_ID must exist in SI1
SI2-020	Owner / Operator Sequence must be greater than zero.	OWNER_OPERATOR_SEQ > 0
SI2-030	Owner / Operator Indicator must equal 'CO' or 'CP'.	OWNER_OPERATOR_INDICATOR = 'CO' or 'CP'
SI2-040	Owner / Operator Name must be provided.	OWNER_OPERATOR_NAME <> ' '
SI2-050	Date the Owner / Operator Became Current must be a valid date greater than or equal to January 1, 1600 or blank.	DATE_BECAME_CURRENT >= '16000101' or ' '
SI2-060	Owner / Operator Type must equal 'P', 'C', 'D', 'F', 'I', 'M', 'S', or 'O'.	OWNER_OPERATOR_TYPE = 'P' or 'C' or 'D' or 'F' or 'I' or 'M' or 'S' or 'O'
SI2-070	If Owner / Operator Country equals 'US' or blank, then Owner / Operator State must equal a state postal code in LU_STATE.	If COUNTRY = 'US' or ' ' Then STATE = state postal code in LU_STATE
SI2-080	If Owner / Operator Country does not equal 'US' or blank, then Owner / Operator State must equal a foreign state in LU_FOREIGN_STATE or blank.	If COUNTRY <> 'US' or ' ' Then STATE = foreign state in LU_FOREIGN_STATE or ' '
SI2-090	Owner / Operator Country must equal a country code in LU_COUNTRY or blank. If Owner / Operator Country is blank, a value of 'US' will be assumed.	COUNTRY = country code in LU_COUNTRY or ' '
SI2-095	Owner / Operator Zip must be provided.	ZIP <> ' '
SI2-100	If Owner / Operator Country equals 'US' or blank, then Owner / Operator Zip must be one of the following formats: 99999 or 99999-9999 or 999999999 where '9' is any numeric value.	If COUNTRY = 'US' or ' ' Then ZIP is formatted as 99999 or 99999-9999 or 999999999.
SI2-110	If Owner / Operator Country is equal 'US' or blank and Owner / Operator Phone is provided, then Owner / Operator Phone must be formatted as 999-999-9999 or 9999999999 where "9" is any numeric value.	If (COUNTRY = 'US' or ' ') and PHONE <> ' ' Then PHONE is formatted as 9999999999 or 999-999-9999.
SI2-120	If Owner / Operator Email is provided, Owner / Operator Email must be formatted as a@a.a where "a" is any alphanumeric value.	If EMAIL <> ' ' Then EMAIL is formatted as a@a.a.

S12 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
S12-130	If Owner / Operator Country is equal 'US' or blank and Owner / Operator Fax is provided, then Owner / Operator Fax must be formatted as 999-999-9999 or 9999999999 where "9" is any numeric value.	If COUNTRY = 'US' or '' Then FAX is formatted as 9999999999 or 999-999-9999.
S12-140	Owner / Operator Street 1 must be provided.	STREET1 <> ''
S12-150	Owner / Operator City must be provided.	CITY <> ''

FLAT FILE ID# - S13

Source Form: Site ID **Description:** North American Industry Classification System Codes for the Site

This file captures the information contained in Item 7 of the Site ID form. The relationship of these data records to the reported site is *n:1*, that is, there can be multiple NAICS for each site.

Key Fields: Handler ID (HANDLER_ID); NAICS Sequence Number (NAICS_SEQ). Each record in the S13 file must contain a unique combination of the Handler ID and NAICS Sequence Number.

Note: The S13 file is REQUIRED. At least one record with a sequence number of 1 (indicating the primary NAICS) must be provided for each handler.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number	SI-2	Required	S13-010
NAICS_SEQ	13	4	I	NAICS Sequence Number		Required	S13-020
NAICS_CODE	17	6	A	NAICS Code	SI-7	Required	S13-030
Total Record Length:		22					

S13 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
S13-010	Handler ID must exist in S11.	HANDLER_ID must exist in S11
S13-020	NAICS Sequence must be greater than zero.	NAICS_SEQ > 0
S13-030	NAICS Code must equal a headquarters-defined NAICS code in LU_NAICS.	NAICS_CODE = headquarters-defined NAICS code in LU_NAICS.

FLAT FILE ID# - SI4

Source Form: Site ID **Description:** EPA Hazardous Waste Codes

This file captures the information contained in Item 10-B of the Site ID form. The relationship of these data records to the reported site is *n:1*, that is, there can be multiple waste codes for each site.

Key Fields: Handler ID (HANDLER_ID); EPA Waste Code (EPA_WASTE_CODE). Each record in the SI4 file must contain a unique combination of the Handler ID and EPA Waste Code.

Note: The SI4 file is REQUIRED for handlers that have generation (LQG, SQG, or VSQG), TSD, Recycler, or Exempt Boiler and/or Industrial Furnace activities.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number	SI-2	Required	SI4-010
EPA_WASTE_CODE	13	4	A	Waste Code for Federally-Regulated Hazardous Wastes	SI-10-B	Required	SI4-020
Total Record Length:		16					

S14 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
SI4-010	Handler ID must exist in SI1.	HANDLER_ID must exist in SI1
SI4-020	EPA Waste Code must equal a headquarters-defined waste code in LU_WASTE_CODE.	EPA_WASTE_CODE = headquarters-defined waste code in LU_WASTE_CODE.

FLAT FILE ID# - SI5

Source Form: Site ID **Description:** State Hazardous Waste Codes

This file captures the information contained in Item 10-C of the Site ID form. The relationship of these data records to the reported site is *n:1*, that is, there can be multiple waste codes for each site.

Key Fields: Handler ID (HANDLER_ID); State Waste Code (STATE_WASTE_CODE). Each record in the SI5 file must contain a unique combination of the Handler ID and State Waste Code.

Note: The SI5 file is NOT REQUIRED. The edits for this file apply only if you provide data for this file.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number	SI-2	Required	SI5-010
STATE_WASTE_CODE	13	6	A	Waste Code for State-Regulated Hazardous Waste	SI-10-C	Required	SI5-020
Total Record Length:		18					

S15 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
S15-010	Handler ID must exist in S11.	HANDLER_ID must exist in S11
S15-020	State Waste Code must equal an implementer-defined waste code in LU_WASTE_CODE.	STATE_WASTE_CODE = implementer-defined waste code in LU_WASTE_CODE.

FLAT FILE ID# - SI6

Source Form: Site ID **Description:** Universal Waste Activities

This file captures the information contained in Item 11-B-1 of the Site ID form. The relationship of these data records to the reported site is *n:1*, that is, there can be multiple universal wastes for each site.

Key Fields: Handler ID (HANDLER_ID); Universal Waste Owner (UNIVERSAL_WASTE_OWNER); Universal Waste (UNIVERSAL_WASTE). Each record in the SI6 file must contain a unique combination of the Handler ID, Universal Waste Owner, and Universal Waste.

If the Universal Waste is a headquarters-defined universal waste (i.e., lamps, batteries, pesticides, or mercury containing equipment), the Universal Waste Owner will be equal to 'HQ'.

If the Universal Waste is an implementer-defined universal waste, the Universal Waste Owner will be equal to the State of submission.

Note: The SI6 file is REQUIRED for handlers that accumulated / managed lamps, batteries, pesticides, or mercury containing equipment.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number	SI-2	Required	SI6-010
UNIVERSAL_WASTE_OWNER	13	2	A	Universal Waste Owner		Required	SI6-020, SI6-040, SI6-050, SI6-060, SI6-070
UNIVERSAL_WASTE	15	1	A	Universal Waste	SI-11-B-1	Required	SI6-030
GENERATED	16	1	A	Generated			SI6-060
ACCUMULATED	17	1	A	Accumulated / Managed	SI-11-B-1	Required	SI6-040, SI6-050, SI6-070
Total Record Length:		17					

SI6 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
SI6-010	Handler ID must exist in SI1.	HANDLER_ID must exist in SI1
SI6-020	Universal Waste Owner must equal 'HQ' or the State of submission.	UNIVERSAL_WASTE_OWNER = 'HQ' or State of submission
SI6-030	Universal Waste Type must equal a headquarters or implementer-defined universal waste type in LU_UNIVERSAL_WASTE.	UNIVERSAL_WASTE_TYPE = headquarter or implementer-defined universal waste type in LU_UNIVERSAL_WASTE
SI6-040	If Universal Waste Owner equals 'HQ' then Accumulated / Managed must equal 'Y'	If UNIVERSAL_WASTE_OWNER = 'HQ' Then ACCUMULATED = 'Y'
SI6-050	If Universal Waste Owner equals State of submission then Accumulated / Managed must equal 'Y' or 'N'	If UNIVERSAL_WASTE_OWNER = State of submission Then ACCUMULATED = 'Y' or 'N'
SI6-060	If Universal Waste Owner equals state of submission then Generated must equal 'Y' or 'N'	If UNIVERSAL_WASTE_OWNER = State of submission Then GENERATED = 'Y' or 'N'
SI6-070	If Universal Waste Owner equals State of submission then Accumulated / Managed must equal 'Y' or Generated must equal 'Y'	If UNIVERSAL_WASTE_OWNER = state of submission Then ACCUMULATED = 'Y' or GENERATED = 'Y'

Note: If the Universal Waste Type is headquarters-defined, then the Generated field will be set to null, regardless of the value provided by the submitter.

FLAT FILE ID# - SI7

Source Form: Site ID **Description:** Site Identification Form Certification

This file captures the information contained in Item 19 of the Site ID form. The relationship of these data records to the reported site is *n:1*, that is, there can be multiple certifications for each site.

Key Fields: Handler ID (HANDLER_ID); Certification Sequence Number (CERT_SEQ). Each record in the SI7 file must contain a unique combination of the Handler ID and Certification Sequence Number.

Note: The SI7 file is REQUIRED for regulators uploading data for their State. At least one record must be provided for each handler. The SI7 is NOT REQUIRED for industry users uploading data via the RCRAInfo Industry Application.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number	SI-2	Required	SI7-010
CERT_SEQ	13	6	I	Certification Sequence Number		Required	SI7-020
CERT_FIRST_NAME	19	38	A	Certification First Name	SI-19	Required	SI7-030
CERT_MIDDLE_INITIAL	57	1	A	Certification Middle Initial	SI-19		
CERT_LAST_NAME	58	38	A	Certification Last Name	SI-19	Required	SI7-040
CERT_TITLE	96	45	A	Certification Title	SI-19	Required	SI7-050
CERT_SIGNED_DATE	141	8	Date	Date Certification was Signed	SI-19	Required	SI7-060
CERT_EMAIL	149	80	A	Certification Email	SI-19		SI7-070
Total Record Length:		228					

S17 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
S17-010	Handler ID must exist in S11.	HANDLER_ID must exist in S11
S17-020	Certification Sequence must be greater than zero.	CERT_SEQ > 0
S17-030	Certification First Name must be provided.	CERT_FIRST_NAME <> ''
S17-040	Certification Last Name must be provided.	CERT_LAST_NAME <> ''
S17-050	Certification Title must be provided.	CERT_TITLE <> ''
S17-060	Date Certification was Signed must be a valid date greater than or equal to January 1 of the reporting cycle and less than or equal to Received Date.	CERT_SIGNED_DATE >= '20??0101' and CERT_SIGNED_DATE <= RECEIVED_DATE
S17-070	If Certification Email is provided, then Certification Email must be formatted as a@a.a where "a" is any alphanumeric value.	If CERT_EMAIL <> Then CERT_EMAIL is formatted as a@a.a.

FLAT FILE ID# - SI8

Source Form: Site ID **Description:** State-Specific Activities

This file reports the state-specific activities for each site. Although not on the EPA Form 8700-13A/B, this file available for States who wish to report this information. The relationship of these data records to the reported site is *n:1*, that is, there can be state activities for each site.

Key Fields: Handler ID (HANDLER_ID); State Activity (STATE_ACTIVITY). Each record in the SI8 file must contain a unique combination of the Handler ID and State Activity.

Note: The SI8 file is NOT REQUIRED. The edits for this file apply only if you provide data for this file.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number	SI-2	Required	SI8-010
STATE_ACTIVITY	13	5	A	State Activity		Required	SI8-020
Total Record Length:		17					

S18 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
S18-010	Handler ID must exist in S11.	HANDLER_ID must exist in S11
S18-020	State Activity must equal an implementer-defined state activity in LU_STATE_ACTIVITY.	STATE_ACTIVITY = implementer-defined state activity in LU_STATE_ACTIVITY.

FLAT FILE ID# - SI9

Source Form: Site ID **Description:** Hazardous Secondary Material Basic Information

This file captures the information contained in Items 1 of the Notification of Hazardous Secondary Material Activity Addendum to the Site ID form. The relationship of these data records to the reported site is 1:1, that is, there can only be one record for each site.

Key Fields: Handler ID (HANDLER_ID. Each record in the SI9 file must contain a unique Handler ID.

Note: The SI9 file is REQUIRED for handlers that will manage, are managing, or have stopped managing hazardous secondary material under 40 CFR 260.30, 261.4(a)(23), (24), (25), or (27).

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number	SI-2	Required	SI9-010, SI9-050
REASON_FOR_NOTIFICATION	13	1	A	Reason for Notification	ADD1-1	Required	SI9-020, SI9-030, SI9-060
HSM_EFFECTIVE_DATE	14	8	Date	Hazardous Secondary Material Effective Date	ADD1-1	Cond. Required	SI9-030
Total Record Length:		21					

S19 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
S19-010	Handler ID must exist in SI1.	HANDLER_ID must exist in SI1
S19-020	Reason for Notification must equal 'I', 'R', or 'S'	REASON_FOR_NOTIFICATION = 'I' or 'R' or 'S'
	If Reason for Notification equals 'I' or 'S' then Hazardous Secondary Material Effective Date must be greater than December 29, 2008	If REASON_FOR_NOTIFICATION = 'I' or 'S' Then HSM_EFFECTIVE_DATE >= '20081229'
S19-030	If Reason for Notification equals 'R' then Hazardous Secondary Material Effective Date must be blank	If REASON_FOR_NOTIFICATION = 'R' Then HSM_EFFECTIVE_DATE = blank
S19-050	For each handler in S19, one HSM activity record must exist in SIA.	For each HANDLER_ID in S19 there must be a record in SIA.
S19-060	If Reason for Notification equals 'R' or 'S' then there must be a record in HHSM_BASIC5 where Reason for Notification equals 'I'.	If REASON_FOR_NOTIFICATION = 'R' or 'S' Then there must be a record in HHSM_BASIC5 where REASON_FOR_NOTIFICATION = 'I' for this facility.
S19-070	Activity Location must be opted into HSM.	RCRA_LU_ACTIVITY_LOC_SETTINGS.HSM = 'Y'

FLAT FILE ID# - SIA

Source Form: Site ID **Description:** Hazardous Secondary Material Activity

This file captures the information contained in Item 2 of the Notification of Hazardous Secondary Material Activity Addendum to the Site ID form. The relationship of these data records to the reported site is *n:1*, that is, there can be multiple HSM activities for each site.

Key Fields: Handler ID (HANDLER_ID); HSM Sequence Number (HSM_SEQ_NUMBER). Each record in the SIA file must contain a unique combination of the Handler ID and HSM Sequence Number.

Note: The SIA file is REQUIRED for handlers that will manage, are managing, or have stopped managing hazardous secondary material under 40 CFR 260.30, 261.4(a)(23), (24), (25), or (27).

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number	SI-2	Required	SIA-010, SIA-100
HSM_SEQ_NUMBER	13	2	I	Hazardous Secondary Material Sequence Number		Required	SIA-020, SIA-100
FACILITY_CODE	15	2	A	Facility Code	ADD1-2-A	Required	SIA-030
ESTIMATE_SHORT_TONS	17	10	I	Estimated Tons of HSM Managed Annually	ADD1-2-C	Required	SIA-040, SIA-050
ACTUAL_SHORT_TONS	27	10	I	Actual Tons of HSM Managed Annually	ADD1-2-D	Required	SIA-060, SIA-070, SIA-080
LAND_BASED_UNIT	37	2	A	Land-based Unit Code	ADD1-2-E	Required	SIA-090
Total Record Length:		38					

SIA Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
SIA-010	Handler ID must exist in S19.	HANDLER_ID must exist in S19
SIA-020	HSM Sequence Number must be greater than zero.	HSM_SEQUENCE_NUMBER > 0
SIA-030	Facility Code must equal a headquarters-defined facility code in LU_HSM_FACILITY_CODE.	FACILITY_CODE = headquarters-defined facility code in LU_HSM_FACILITY_CODE.
SIA-040	If Reason For Notification equals 'I' or 'R' then Estimated Tons of HSM Managed Annually must be greater than zero.	If REASON_FOR_NOTIFICATION = 'N' or 'R' Then ESTIMATE_SHORT_TONS > 0
SIA-050	If Reason for Notification equals 'S' then Estimated Tons of HSM Managed Annually must equal zero.	If REASON_FOR_NOTIFICATION = 'S' Then ESTIMATE_SHORT_TONS = 0
SIA-060	If Reason for Notification equals 'R' then Actual Tons of HSM Managed Annually must be greater than or equal to zero.	If REASON_FOR_NOTIFICATION = 'R' Then ACTUAL_SHORT_TONS >= 0
SIA-070	If Reason for Notification equals 'I' then Actual Tons of HSM Managed Annually must equal zero.	If REASON_FOR_NOTIFICATION = 'I' Then ACTUAL_SHORT_TONS = 0
SIA-080	If Reason for Notification equals 'S' then Actual Tons of HSM Managed Annually must be greater than or equal to zero.	If REASON_FOR_NOTIFICATION = 'S' Then ACTUAL_SHORT_TONS >= 0
SIA-090	Land-based Unit Code must equal 'NA', 'SI', 'PL', or 'OT'	LAND_BASED_UNIT = 'NA' or 'SI' or 'PL' or 'OT'
SIA-100	For each handler/HSM sequence number in SIA, one HSM waste code record must exist in SIB.	For each HANDLER_ID and HSM_SEQ_NUMBER in SIA there must be a record in SIB.

FLAT FILE ID# - SIB

Source Form: Site ID **Description:** Hazardous Secondary Material Waste Codes

This file captures the information contained in Item 2.C of the Notification of Hazardous Secondary Material Activity Addendum to the Site ID form. The relationship of these data records to the reported site is *n:1*, that is, there can be multiple waste codes for each site / HSM sequence number.

Key Fields: Handler ID (HANDLER_ID); HSM Sequence Number (HSM_SEQUENCE_NUMBER), Waste Code (WASTE_CODE). Each record in the SIB file must contain a unique combination of the Handler ID, HSM Sequence Number, and Waste Code.

Note: The SIB file is REQUIRED for handlers that will manage, are managing, or have stopped managing hazardous secondary material under 40 CFR 260.30, 261.4(a)(23), (24), (25), or (27).

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number	SI-2	Required	SIB-010
HSM_SEQ_NUMBER	13	2	I	Hazardous Secondary Material Sequence Number		Required	SIB-010
WASTE_CODE	15	4	A	EPA Hazardous Waste Code	ADD1-2-B	Required	SIB-020
Total Record Length:		18					

SIB Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
SIB-010	Handler ID and HSM Sequence Number must exist in SIA.	HANDLER_ID and HSM_SEQ_NUMBER must exist in SIA
SIB-020	Waste Code must equal a headquarters-defined waste code in LU_WASTE_CODE.	WASTE_CODE = headquarters-defined waste code in LU_WASTE_CODE.

FLAT FILE ID# - SIC

The SIC File has been removed for the 2019 Biennial Report Cycle.

FLAT FILE ID# - SID

Source Form: Site ID **Description:** Notification of LQG Site Closure for a Central Accumulation Area and Entire Facility

This file captures the information contained in Item 15 of the Site ID form. The relationship of these data records to the reported site is 1:1, that is, there can only be one record for each site.

Key Fields: Handler ID (HANDLER_ID). Each record in the SID file must contain a unique Handler ID.

Note: The SID file is REQUIRED for LQGs that are closing a central accumulation area (CAA) or entire facility.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number	SI-2	Required	SID-010, SID-040
CLOSURE_TYPE	13	1	A	Closure Type (CAA or Entire Facility)	SI-15-1	Required	SID-020
EXPECTED_CLOSURE_DATE	14	8	Date	Expected Closure Date	SI-15-2	Cond. Required	SID-030, SID-050
NEW_CLOSURE_DATE	22	8	Date	New Closure Date	SI-15-3		SID-050
DATE_CLOSED	30	8	Date	Date Closed	SI-15-4	Cond. Required	SID-060, SID-070
IN_COMPLIANCE	38	1	A	In Compliance with the Closure Performance Standards	SI-15-4	Cond. Required	SID-060, SID-070
Total Record Length:		38					

SID Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
SID-010	Handler ID must exist in SI1.	HANDLER_ID must exist in SI1
SID-020	Closure Type must equal 'A' or 'F'.	CLOSURE_TYPE = 'A' or 'F'
SID-030	Expected Date, New Closure Date, and/or Closure Date must be provided.	EXPECTED_CLOSURE_DATE IS NOT NULL or DATE_CLOSED IS NOT NULL or NEW_CLOSURE_DATE IS NOT NULL
SID-040	The Handler ID must exist in HHANDLER5.	HANDLER_ID must exist in HHANDLER5 where REPORT_CYCLE <> the current reporting cycle
SID-050	If New Closure Date is provided, it must be after the Expected Closure Date (either in the current record or an existing record)	If NEW_CLOSURE_DATE <> '' Then NEW_CLOSURE_DATE > EXPECTED_CLOSURE_DATE (either in the current record or an existing record)
SID-060	If Closure Date is provided, then In Compliance must equal 'Y' or 'N'.	If DATE_CLOSED <> '' Then IN_COMPLIANCE = 'Y' or 'N'
SID-070	If Closure Date is not provided, then In Compliance cannot be provided.	If DATE_CLOSED = '' Then IN_COMPLIANCE = ''
SID-080	Activity Location must be opted into Notification of LQG Site Closure for a Central Accumulation Area or Entire Facility.	RCRA_LU_ACTIVITY_LOC_SETTINGS.LQG_CLOSURE = 'Y'

FLAT FILE ID# - SIE

Source Form: Site ID **Description:** LQG Consolidation of VSQG Hazardous Waste

This file captures the information contained in LQG Consolidation of VSQG Hazardous Waste Addendum of the Site ID form. The relationship of these data records to the reported site is *n:1*, that is, there can be multiple certifications for each site.

Key Fields: Handler ID (HANDLER_ID); Consolidation Sequence Number (CONSOLIDATION_SEQ_NUMBER). Each record in the SIE file must contain a unique combination of the Handler ID and Consolidation Sequence Number.

Note: The SIE file is REQUIRED for LQGs notifying of VSQG hazardous waste under the control of the same person pursuant to 40 CFR 262.17(f).

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number	SI-2	Required	SIE-010, SIE-170
CONSOLIDATION_SEQ_NUMBER	13	6	I	LQG Consolidation of VSQG Hazardous Waste Sequence Number		Required	SIE-040
VSQG_HANDLER_ID	19	12	A	VSQG Handler ID	ADD2-A		SIE-150, SIE-160, SIE-170
VSQG_HANDLER_NAME	31	80	A	VSQG Handler Name	ADD2-A	Required	SIE-050
VSQG_STREET_NO	111	12	A	VSQG Street Number	ADD2-A		
VSQG_STREET1	123	50	A	VSQG Street 1	ADD2-A	Required	SIE-060
VSQG_STREET2	173	50	A	VSQG Street 2	ADD2-A		
VSQG_CITY	223	25	A	VSQG City	ADD2-A	Required	SIE-070
VSQG_STATE	248	2	A	VSQG State	ADD2-A	Required	SIE-080
VSQG_ZIP	250	14	A	VSQG Zip	ADD2-A	Required	SIE-090, SIE-100
VSQG_PHONE	264	15	A	VSQG Contact Phone	ADD2-A	Required	SIE-110, SIE-120
VSQG_PHONE_EXT	279	6	A	VSQG Contact Phone Extension	ADD2-A		
VSQG_CONTACT_FIRST_NAME	285	38	A	VSQG Contact First Name	ADD2-A	Required	SIE-130

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
VSQG_CONTACT_MIDDLE_INITIAL	323	1	A	VSQG Contact Middle Initial	ADD2-A		
VSQG_CONTACT_LAST_NAME	324	38	A	VSQG Contact Last Name	ADD2-A	Required	SIE-140
VSQG_EMAIL_ADDRESS	362	80	A	VSQG Email Address	ADD2-A	Required	SIE-180
Total Record Length:		441					

SIE Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
SIE-010	Handler ID must exist in SI1.	HANDLER_ID must exist in SI1
SIE-020	Federal Generator Status for the Handler ID must equal '1'.	FED_WASTE_GENERATOR in SI1 = '1'
SIE-030	Activity Location must be opted into LQG Consolidation of VSQG Hazardous Waste.	RCRA_LU_ACTIVITY_LOC_SETTINGS.LQG_CON = 'Y'
SIE-040	Consolidation Sequence Number must be greater than zero.	CONSOLIDATION_SEQ_NUMBER > 0
SIE-050	VSQG Handler Name must be provided.	VSQG_HANDLER_NAME <> ''
SIE-060	VSQG Street1 must be provided.	VSQG_STREET1 <> ''
SIE-070	VSQG City must be provided.	VSQG_CITY <> ''
SIE-080	VSQG State must equal a state postal code in LU_STATE.	VSQG_STATE = state postal code in LU_STATE
SIE-090	VSQG Zip must be provided.	VSQG_ZIP <> ''
SIE-100	VSQG Zip must be one of the following formats: 99999 or 99999-9999 or 999999999 where '9' is any numeric value.	VSQG_ZIP is formatted as 99999 or 99999-9999 or 999999999.
SIE-110	VSQG Contact Phone must be provided.	VSQG_PHONE <> ''
SIE-120	VSQG Phone must be formatted as 999-999-9999 or 9999999999 where "9" is any numeric value.	VSQG_PHONE is formatted as 9999999999 or 999-999-9999.
SIE-130	VSQG Contact First Name must be provided.	VSQG_FIRST_NAME <> ''
SIE-140	VSQG Contact Last Name must be provided.	VSQG_LAST_NAME <> ''
SIE-150	If VSQG Handler ID is provided, then the first two characters of the VSQG Handler ID must match a state postal code in LU_STATE.	If VSQG_HANDLER_ID <> '' Then SUBSTR(VSQG_HANDLER_ID,1,2) = state postal code in LU_STATE
SIE-160	If VSQG Handler ID is provided, then VSQG Handler ID must be at least four characters and no more than twelve characters.	If VSQG_HANDLER_ID <> '' Then LENGTH(VSQG_HANDLER_ID) >= 4 and LENGTH(VSQG_HANDLER_ID) <= 12
SIE-170	If VSQG Handler ID is provided, then VSQG Handler ID must be unique for this Handler ID.	COUNT(*) = 1 for this VSQG_HANDLER_ID and HANDLER_ID combination
SIE-180	VSQG Email must be formatted as a@a.a where "a" is at least one alphanumeric value.	VSQG_EMAIL_ADDRESS is formatted as a@a.a.

FLAT FILE ID# - GM1

Source Form: GM **Description:** Waste Generation and Management Information

This file captures data elements that have 1:1 relationship to the reported waste. These data elements are as follows: GM Items 1.A, and 1.D through 1.G.

Key Fields: Handler ID (HANDLER_ID); Page Number (HZ_PG). Each record in the GM1 file must contain a unique combination of the Handler ID and Page Number.

Note: The GM1 file is REQUIRED for handlers that generated RCRA hazardous waste that, during the reporting cycle, was accumulated on-site; managed on-site in a treatment, storage, or disposal unit; and/or shipped off-site for management.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number		Required	GM1-010, GM1-190
HZ_PG	13	5	I	Page Number		Required	GM1-020, GM1-190
FORM_CODE	18	4	A	Waste Form Code	GM-1-E	Required	GM1-060
UNIT_OF_MEASURE	22	1	A	Unit of Measure	GM-1-H	Required	GM1-080, GM1-090, GM1-100
WST_DENSITY	23	6	D3.2	Density	GM-1-H	Cond. Required	GM1-090
DENSITY_UNIT_OF_MEASURE	29	1	A	Density Unit of Measure (1 = lbs/gal; 2 = specific gravity)	GM-1-H	Cond. Required	GM1-100
MANAGEMENT_METHOD	30	4	A	Management Method (for source code 'G25' only)	GM-1-D	Cond. Required	GM1-050
WASTE_MIN_CODE	34	1	A	Waste Minimization Indicator	GM-1-F	Required	GM1-110

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
SOURCE CODE	35	3	A	Source Code	GM-1-D	Required	GM1-040, GM1-050, GM1-055, GM1-056, GM1-200, GM1-210, GM1-230
GEN_QTY	38	18	D11.6	Quantity Generated in Reporting Year	GM-1-H	Required	GM1-055, GM1-070
INCLUDE_IN_NATIONAL_REPORT	56	1	A	Include Information in the National Hazardous Waste Report		Required	GM1-180
DESCRIPTION	57	240	A	Waste Stream Description	GM-1-A	Required	GM1-030
PUBLIC_NOTES	297	240	A	Comments/Notes	GM-4		
ON_SITE_MANAGEMENT	537	1	A	Was this Waste Stream Managed On-Site	GM-2	Required	GM1-120, GM1-130, GM1-140
OFF_SITE_SHIPMENT	538	1	A	Was this Waste Stream Shipped Off-Site	GM-3-A	Required	GM1-150, GM1-160, GM1-170
MIXED_WASTE	539	1	A	Hazardous and Radioactive Waste Mixture	GM-1-G	Required	GM1-220
COUNTRY_CODE	540	2	A	Country Code (for source code 'G62' only)	GM-1-D	Cond. Required	GM1-210
Total Record Length:		541					

GM1 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
GM1-010	Handler ID must exist in SI1.	HANDLER_ID must exist in SI1
GM1-020	Page Number must be greater than zero.	HZ_PG > 0
GM1-030	Waste Stream Description must be provided.	DESCRIPTION <> ''
GM1-040	Source Code must equal a headquarter-defined source code in LU_SOURCE_CODE.	SOURCE_CODE = headquarter-defined source code in LU_SOURCE_CODE
GM1-050	If Source Code equals 'G25' then Management Method must equal a headquarter-defined management method in LU_MANAGEMENT_METHOD other than 'H141' else Management Method must equal ''	If SOURCE_CODE = 'G25' Then MANAGEMENT_METHOD = headquarter-defined management method in LU_MANAGEMENT_METHOD AND MANAGEMENT_METHOD <> 'H141' Else MANAGEMENT_METHOD = ''
GM1-055	If Source Code equals 'G17' then Quantity Generated must equal zero.	If SOURCE_CODE = 'G17' Then GEN_QTY = 0.
GM1-056	If Source Code equals 'G17' then handler must have opted into the Subpart K rule.	If SOURCE_CODE = 'G17' Then SUBPART_K_COLLEGE in SI1 = 'Y' or SUBPART_K_HOSPITAL in SI1 = 'Y' or SUBPART_K_NONPROFIT in SI1 = 'Y' or SUBPART_K_WITHDRAWAL in SI1 = 'Y'.
GM1-060	Form Code must equal a headquarter-defined form code in LU_FORM_CODE.	FORM_CODE = headquarter-defined form code in LU_FORM_CODE
GM1-070	Quantity Generated must be greater than or equal to zero.	GEN_QTY >= 0
GM1-080	Unit of Measure must equal a headquarter-defined unit of measure in LU_BR_UOM.	UNIT_OF_MEASURE = headquarter-defined unit of measure in LU_BR_UOM
GM1-090	If Unit of Measure equals '5', '6', or '7', then Density must be greater than zero else Density must equal 0.	If UNIT_OF_MEASURE = '5' or '6' or '7' Then WST_DENSITY > 0 Else WST_DENSITY = 0
GM1-100	If Unit of Measure equals '5', '6', or '7', then Density Unit of Measure must equal a headquarter-defined unit of measure in LU_DENSITY_UOM else Density Unit of Measure must equal blank.	If UNIT_OF_MEASURE = '5' or '6' or '7' Then DENSITY_UNIT_OF_MEASURE = headquarter-defined density unit of measure in LU_DENSITY_UOM Else DENSITY_UNIT_OF_MEASURE = ''
GM1-110	Waste Minimization must equal a headquarter-defined waste minimization code in LU_WASTE_MINIMIZATION.	WASTE_MIN_CODE = headquarter-defined waste minimization code in LU_WASTE_MINIMIZATION
GM1-120	On-Site Management Indicator must equal 'Y' or 'N'	ON_SITE_MANAGEMENT = 'Y' or 'N'
GM1-130	If On-Site Management Indicator equals 'Y' then at least one corresponding record must exist in GM5.	If ON_SITE_MANAGEMENT = 'Y' Then HANDLER_ID and HZ_PG in GM1 must exist in GM5

GM1 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
GM1-140	If On-Site Management Indicator equals 'N' then no corresponding record may exist in GM5.	If ON_SITE_MANAGEMENT = 'N' Then HANDLER_ID and HZPG in GM1 cannot exist in GM5
GM1-150	Off-Site Management Indicator must equal 'Y' or 'N'	OFF_SITE_MANAGEMENT = 'Y' or 'N'
GM1-160	If Off-Site Management Indicator equals 'Y' then at least one corresponding record must exist in GM4.	If OFF_SITE_MANAGEMENT = 'Y' Then HANDLER_ID and HZ_PG in GM1 must exist in GM4
GM1-170	If Off-Site Management Indicator equals 'N' then no corresponding record may exist in GM4.	If OFF_SITE_MANAGEMENT = 'N' Then HANDLER_ID and HZ_PG in GM1 must exist in GM4
GM1-180	If Include in National Report in the SI1 file equals 'N' then Include in National Report must equal 'N' else Include in National Report must equal 'N' or 'Y'.	If INCLUDE_IN_NATIONAL_REPORT in SI1= 'N' Then INCLUDE_IN_NATIONAL_REPORT = 'N' Else INCLUDE_IN_NATIONAL_REPORT = 'N' or 'Y'
GM1-190	For each handler and page number in GM1, one record must exist in GM2 or GM3.	For each HANDLER_ID and HZ_PG in GM1 there must be a record in GM2 or GM3
GM1-200	If Source Code equals 'G76' then Subpart P – Reverse Distributor in SI1 must equal 'Y'.	If SOURCE_CODE = 'G76' Then SUBPART_P_REVERSE_DISTRIBUTOR in SI1 = 'Y'
GM1-210	If Source Code equals 'G62' then Country Code must equal a country code in LU_COUNTRY.	If SOURCE_CODE = 'G62' Then COUNTRY_CODE = country code in LU_COUNTRY
GM1-220	Mixed Waste must equal 'Y' or 'N'	MIXED_WASTE = 'Y' or 'N'
GM1-230	If Source Code equals 'G61' then On-site Management of Hazardous Waste cannot be provided.	If SOURCE_CODE = 'G61' Then there cannot be a record in GM5 for this HANDLER_ID and HZ_PG

FLAT FILE ID# - GM2

Source Form: GM **Description:** EPA Hazardous Waste Codes

This file captures the information contained in Item 1.B of the GM form. The relationship of these data records to the reported waste is *n:1*, that is, there can be multiple waste codes for each reported waste.

Key Fields: Handler ID (HANDLER_ID); Page Number (HZ_PG); EPA Waste Code (EPA_WASTE_CODE). Each record in the GM2 file must contain a unique combination of the Handler ID, Page Number, and EPA Waste Code.

Note: For each waste stream, either EPA Hazardous Waste Code information (GM2) is REQUIRED or State Hazardous Waste Code information (GM3) is REQUIRED.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number		Required	GM2-010
HZ_PG	13	5	I	Page Number		Required	GM2-010
EPA_WASTE_CODE	18	4	A	EPA Hazardous Waste Code	GM-1-B	Required	GM2-020
Total Record Length:		21					

GM2 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
GM2-010	Handler ID and Page Number must exist in GM1.	HANDLER_ID and HZ_PG must exist in GM1
GM2-020	EPA Waste Code must equal a headquarters-defined waste code in LU_WASTE_CODE.	EPA_WASTE_CODE = headquarters-defined waste code in LU_WASTE_CODE.

FLAT FILE ID# - GM3

Source Form: GM **Description:** State Hazardous Waste Codes

This file captures the information contained in Item 1.C of the GM form. The relationship of these data records to the reported waste is *n:1*, that is, there can be multiple waste codes for each reported waste.

Key Fields: Handler ID (HANDLER_ID); Page Number (HZ_PG); State Waste Code (STATE_WASTE_CODE). Each record in the GM3 file must contain a unique combination of the Handler ID, Page Number, and State Waste Code.

Note: For each waste stream, either EPA Hazardous Waste Code information (GM2) is REQUIRED or State Hazardous Waste Code information (GM3) is REQUIRED.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number		Required	GM3-010
HZ_PG	13	5	I	Page Number		Required	GM3-010
STATE_WASTE_CODE	18	6	A	State Hazardous Waste Code	GM-1-C	Required	GM3-020
Total Record Length:		23					

GM3 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
GM3-010	Handler ID and Page Number must exist in GM1.	HANDLER_ID and HZ_PG must exist in GM1
GM3-020	State Waste Code must equal an implementer-defined waste code in LU_WASTE_CODE.	STATE_WASTE_CODE = implementer-defined waste code in LU_WASTE_CODE.

FLAT FILE ID# - GM4

Source Form: GM **Description:** Off-Site Management Information for the Reported Waste

This file captures off-site treatment information for the reported waste as represented in GM Items 3.B through 3.D. The relationship of these data records to the reported waste is *n:1*, that is, there can be multiple off-site information for each reported waste.

Key Fields: Handler ID (HANDLER_ID); Page Number (HZ_PG); Off-Site Sequence Number (IO_PG_NUM_SEQ). Each record in the GM4 file must contain a unique combination of the Handler ID, Page Number, and Off-Site Sequence Number.

Note: The GM4 file is REQUIRED for handlers that generated RCRA hazardous waste that, during the reporting cycle, was shipped off-site for management.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number		Required	GM4-010
HZ_PG	13	5	I	Page Number		Required	GM4-010
IO_PG_NUM_SEQ	18	5	I	Off-Site Sequence Number		Required	GM4-020
MANAGEMENT_METHOD	23	4	A	Management Method	GM-3-C	Required	GM4-040
IO_TDR_ID	27	12	A	EPA ID Number of the Facility to which Waste was Shipped	GM-3-B	Required	GM4-030
IO_TDR_QTY	39	18	D11.6	Total Quantity Shipped to EPA ID in Current Reporting Year	GM-3-D	Required	GM4-050
Total Record Length:		56					

GM4 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
GM4-010	Handler ID and Page Number must exist in GM1.	HANDLER_ID and HZ_PG must exist in GM1
GM4-020	Off-Site Sequence must be greater than zero.	IO_PG_NUM_SEQ > 0
GM4-030	EPA ID Number of the Facility to which Waste was Shipped must begin with a state postal code in LU_STATE.	SUBSTR(IO_TDR_ID,1,2) = state postal code in LU_STATE
GM4-035	EPA ID Number of the Facility to which Waste was Shipped cannot equal 'VARIOUS', 'MISC', or 'MANY'.	IO_TDR_ID <> 'VARIOUS' or 'MISC' or 'MANY'
GM4-037	EPA ID Number of the Facility to which Waste was Shipped must be at least four characters and no more than twelve characters.	LENGTH(IO_TDR_ID) >= 4 and LENGTH(IO_TDR_ID) <= 12
GM4-040	Management Method must equal a headquarter-defined management method in LU_MANAGEMENT_METHOD.	MANAGEMENT_METHOD = headquarter-defined management method in LU_MANAGEMENT_METHOD
GM4-050	Total Quantity Shipped to EPA ID in Current Reporting Year must be greater than zero and less than 99,999,999,999.999999.	IO_TDR_QTY > 0 and <= 99999999999.999999

FLAT FILE ID# - GM5

Source Form: GM

Description: On-Site Management Information for the Reported Waste

This file captures on-site treatment information for the reported waste as represented in GM Item 2. The relationship of these data records to the reported waste is *n:1*, that is, there can be multiple off-site information for each reported waste.

Key Fields: Handler ID (HANDLER_ID); Page Number (HZ_PG); On-Site Sequence Number (SYS_PG_NUM_SEQ). Each record in the GM5 file must contain a unique combination of the Handler ID, Page Number, and On-Site Sequence Number.

Note: The GM5 file is REQUIRED for handlers that generated RCRA hazardous waste that, during the reporting cycle, was accumulated on-site or managed on-site in a treatment, storage, or disposal unit.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number		Required	GM5-010
HZ_PG	13	5	I	Page Number		Required	GM5-010
SYS_PG_NUM_SEQ	18	5	I	On-Site Sequence Number		Required	GM5-020
MANAGEMENT_METHOD	23	4	A	Management Method	GM-2	Required	GM5-030
SYS_TDR_QTY	27	18	D11.6	Total Quantity Treated, Disposed, or Recycled On-Site in Current Reporting Year	GM-2	Required	GM5-040
Total Record Length:		44					

GM5 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
GM5-010	Handler ID and Page Number must exist in GM1.	HANDLER_ID and HZ_PG must exist in GM1
GM5-020	On-Site Sequence must be greater than zero.	SYS_PG_NUM_SEQ > 0
GM5-030	Management Method must equal a headquarter-defined management method in LU_MANAGEMENT_METHOD other than 'H141'.	MANAGEMENT_METHOD = headquarter-defined management method in LU_MANAGEMENT_METHOD AND MANAGEMENT_METHOD <> 'H141'
GM5-040	Total Quantity Treated, Disposed, or Recycled On-Site in Current Reporting Year must be greater than zero and less than 99,999,999,999.999999.	SYS_TDR_QTY > 0 and <= 99999999999.999999

FLAT FILE ID# - WR1

Source Form: WR **Description:** Waste Received From Off-Site

This file captures the information contained in Item A and Items D through H of the WR form. The relationship of these data records to the reported site is *n:1*, that is, there can be multiple received waste for each site.

Key Fields: Handler ID (HANDLER_ID); Page Number (HZ_PG); Waste Number (SUB_PG_NUM). Each record in the WR1 file must contain a unique combination of the Handler ID, Page Number and Waste Number.

Note: The WR1 file is REQUIRED for handlers who, during the reporting cycle, received RCRA hazardous waste from off-site.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number		Required	WR1-010, WR1-058, WR1-130
HZ_PG	13	5	I	Page Number		Required	WR1-020, WR1-130
SUB_PG_NUM	18	1	I	Waste Number		Required	WR1-030, WR1-130
FORM_CODE	19	4	A	Form Code	WR-G	Required	WR1-100
UNIT_OF_MEASURE	23	1	A	Unit of Measure	WR-F	Required	WR1-070, WR1-080, WR1-090
WST_DENSITY	24	6	D3.2	Density	WR-F	Cond. Required	WR1-080
DENSITY_UNIT_OF_MEASURE	30	1	A	Density Unit of Measure (1 = lbs/gal; 2 = specific gravity)	WR-F	Cond. Required	WR1-090
INCLUDE_IN_NATIONAL_REPORT	31	1	A	Include Information in the National Hazardous Waste Report		Required	WR1-120
MANAGEMENT_METHOD	32	4	A	Management Method	WR-H	Required	WR1-110

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
IO_TDR_ID	36	12	A	Off-Site Source EPA ID Number	WR-D	Required	WR1-050, WR1-055, WR1-057, WR1-058
IO_TDR_QTY	48	18	D11.6	Quantity Received in Current Reporting Year	WR-E	Required	WR1-060
DESCRIPTION	66	240	A	Waste Stream Description	WR-A	Required	WR1-040
PUBLIC_NOTES	306	240	A	Comments / Notes	Bottom of Form		
Total Record Length:		545					

WR1 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
WR1-010	Handler ID must exist in SI1.	HANDLER_ID must exist in SI1
WR1-020	Page Number must be greater than zero.	HZ_PG > 0
WR1-030	Waste Number must equal '1', '2', or '3'	SUB_PG_NUM = '1' or '2' or '3'
WR1-040	Waste Stream Description must be provided.	DESCRIPTION <> ''
WR1-050	The first two characters of the Off-Site Handler EPA ID Number must be a state postal code in LU_STATE or 'FC' (foreign country)	SUBSTR(IO_TDR_ID,1,2) = state postal code in LU_STATE or 'FC'
WR1-055	Off-Site Handler EPA ID Number cannot equal 'VARIOUS', 'MISC', or 'MANY'.	IO_TDR_ID <> 'VARIOUS' or 'MISC' or 'MANY'
WR1-057	Off-site Handler EPA ID must be at least four characters and no more than twelve characters.	LENGTH(IO_TDR_ID) >= 4 and LENGTH(IO_TDR_ID) <= 12
WR1-058	Off-site Handler EPA ID cannot equal the Handler ID.	IO_TDR_ID <> HANDLER_ID
WR1-070	Unit of Measure must equal a headquarter-defined unit of measure in LU_BR_UOM.	UNIT_OF_MEASURE = headquarter-defined unit of measure in LU_BR_UOM
WR1-080	If Unit of Measure equals '5', '6', or '7', then Density must be greater than zero else Density must equal 0.	If UNIT_OF_MEASURE = '5' or '6' or '7' Then WST_DENSITY > 0 Else WST_DENSITY = 0
WR1-090	If Unit of Measure equals '5', '6', or '7', then Density Unit of Measure must equal a headquarter-defined unit of measure in LU_DENSITY_UOM else Density Unit of Measure must equal blank.	If UNIT_OF_MEASURE = '5' or '6' or '7' Then DENSITY_UNIT_OF_MEASURE = headquarter-defined density unit of measure in LU_DENSITY_UOM Else DENSITY_UNIT_OF_MEASURE = ''
WR1-100	Form Code must equal a headquarter-defined form code in LU_FORM_CODE.	FORM_CODE = headquarter-defined form code in LU_FORM_CODE
WR1-110	Management Method must equal a headquarter-defined management method in LU_MANAGEMENT_METHOD.	MANAGEMENT_METHOD = headquarter-defined management method in LU_MANAGEMENT_METHOD
WR1-120	If Include in National Report in the SI1 file equals 'N' then Include in National Report must equal 'N' else Include in National Report must equal 'N' or 'Y'.	If INCLUDE_IN_NATIONAL_REPORT in SI1 = 'N' Then INCLUDE_IN_NATIONAL_REPORT = 'N' Else INCLUDE_IN_NATIONAL_REPORT = 'N' or 'Y'
WR1-130	For each handler, page number, and waste number in WR1, one record must exist in WR2 or WR3.	For each HANDLER_ID, HZ_PG, and SUB_PG_NUM in WR1 there must be a record in WR2 or WR3.

FLAT FILE ID# - WR2

Source Form: WR **Description:** EPA Hazardous Waste Codes

This file captures the information contained in Item B of the WR form. The relationship of these data records to the reported waste is *n:1*, that is, there can be multiple waste codes for each reported waste.

Key Fields: Handler ID (HANDLER_ID); Page Number (HZ_PG); Waste Number (SUB_PG_NUM); EPA Waste Code (EPA_WASTE_CODE). Each record in the WR2 file must contain a unique combination of the Handler ID, Page Number, Waste Number, and EPA Waste Code.

Note: For each waste stream, either EPA Hazardous Waste Code information (WR2) is REQUIRED or State Hazardous Waste Code information (WR3) is REQUIRED.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number		Required	WR2-010
HZ_PG	13	5	I	Page Number		Required	WR2-010
SUB_PG_NUM	18	1	I	Waste Number		Required	WR2-010
EPA_WASTE_CODE	19	4	A	EPA Hazardous Waste Code	WR-B	Required	WR2-020
Total Record Length:		22					

WR2 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
WR2-010	Handler ID, Page Number and Waste Number must exist in WR1.	HANDLER_ID, HZ_PG, and SUB_PG_NUM must exist in WR1
WR2-020	EPA Waste Code must equal a headquarters-defined waste code in LU_WASTE_CODE.	EPA_WASTE_CODE = headquarters-defined waste code in LU_WASTE_CODE.

FLAT FILE ID# - WR3

Source Form: WR **Description:** State Hazardous Waste Codes

This file captures the information contained in Item C of the WR form. The relationship of these data records to the reported waste is *n:1*, that is, there can be multiple waste codes for each reported waste.

Key Fields: Handler ID (HANDLER_ID); Page Number (HZ_PG); Waste Number (SUB_PG_NUM); State Waste Code (STATE_WASTE_CODE). Each record in the WR3 file must contain a unique combination of the Handler ID, Page Number, Waste Number, and State Waste Code.

Note: For each waste stream, either EPA Hazardous Waste Code information (WR2) is REQUIRED or State Hazardous Waste Code information (WR3) is REQUIRED.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number		Required	WR3-010
HZ_PG	13	5	I	Page Number		Required	WR3-010
SUB_PG_NUM	18	1	I	Waste Number		Required	WR3-010
STATE_WASTE_CODE	19	6	A	State Hazardous Waste Code	WR-C	Required	WR3-020
Total Record Length:		24					

WR3 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
WR3-010	Handler ID, Page Number and Waste Number must exist in WR1.	HANDLER_ID, HZ_PG, and SUB_PG_NUM must exist in WR1
WR3-020	State Waste Code must equal an implementer-defined waste code in LU_WASTE_CODE.	STATE_WASTE_CODE = implementer-defined waste code in LU_WASTE_CODE.

FLAT FILE ID# - OI1

Source Form: OI **Description:** Identification of All Handlers to Whom or From Whom Waste was Shipped, and Transporters

This file captures information from the OI form.

Key Fields: Handler ID (HANDLER_ID); Page Number (OSITE_PGNUM). Each record in the OI1 file must contain a unique combination of the Handler ID and Page Number.

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
HANDLER_ID	1	12	A	EPA Identification Number		Required	OI1-010
OI_PG	13	5	I	Page Number		Required	OI1-020
OFFSITE_INSTALLATION_ID	18	12	A	Off-Site Installation or Transporter EPA ID Number	OI-A	Required	OI1-030, OI1-040
GENERATOR_FLAG	30	1	A	Handler Type = Generator	OI-C	Required	OI1-050
TRANSPORTER_FLAG	31	1	A	Handler Type = Transporter	OI-C	Required	OI1-060
TSDR_FLAG	32	1	A	Handler Type = Receiving Facility	OI-C	Required	OI1-070
OI_NAME	33	80	A	Name of Off-Site Installation or Transporter	OI-B	Required	OI1-080
OI_STREET_NO	113	12	A	Installation or Transporter Street Number	OI-D		
OI_STREET1	125	50	A	Installation or Transporter Street Address1	OI-D	Cond. Required	OI1-090
OI_STREET2	175	50		Installation or Transporter Street Address2			
OI_CITY	225	25	A	Installation or Transporter City	OI-D	Cond. Required	OI1-100
OI_STATE	250	2	A	Installation or Transporter State	OI-D	Cond. Required	OI1-110, OI1-120
OI_ZIP	252	14	A	Installation or Transporter Zip Code	OI-D	Cond. Required	OI1-130, OI1-140
OI_COUNTRY	266	2	A	Installation or Transporter Country	OI-D	Required	OI1-110, OI1-120, OI1-140, OI1-150

Field Name	Starting Column	Field Length	Data Type	Description	Location on Form	Required / Cond. Required	Edit Number(s)
NOTES	268	1000	A	Comments / Notes	Bottom of OI Form		
Total Record Length:		1267					

O11 Flat File Edit Specifications		
Edit Number	Edit Description	Select Logic
O11-010	Handler ID must exist in SI1.	HANDLER_ID must exist in OI1
O11-020	Page Number must be greater than zero.	OI_PG > 0
O11-030	Off-site Installation Number must begin with a state postal code in LU_STATE or 'FC'.	SUBSTR(OFFSITE_INSTALLATION_ID,1,2) = state postal code in LU_STATE or 'FC'
O11-040	Off-site Installation ID must be at least four characters and no more than twelve characters.	LENGTH(OFFSITE_INSTALLATION_ID) >= 4 and LENGTH(OFFSITE_INSTALLATION_ID) <= 12
O11-050	Generator Flag must equal 'Y' or 'N'.	GENERATOR_FLAG = 'Y' or 'N'
O11-060	Transporter Flag must equal 'Y' or 'N'.	TRANSPORTER_FLAG = 'Y' or 'N'
O11-070	Receiving Facility Flag must equal 'Y' or 'N'.	TSDR_FLAG = 'Y' or 'N'
O11-080	Handler Name must be provided.	OI_NAME <> ''
O11-090	If Generator Flag = 'Y' or TSDR Flag equals 'Y' then Installation or Transporter Street1 must be provided.	If GENERATOR_FLAG = 'Y' or TSDR_FLAG = 'Y' Then OI_STREET1 <> ''
O11-100	If Generator Flag = 'Y' or TSDR Flag equals 'Y' then Installation or Transporter City must be provided.	If GENERATOR_FLAG = 'Y' or TSDR_FLAG = 'Y' Then OI_CITY <> ''
O11-110	If Installation or Transporter Country equals 'US' or blank and Generator Flag = 'Y' or TSDR Flag equals 'Y', then Installation or Transporter State must equal a state postal code in LU_STATE.	If (OI_COUNTRY = 'US' or '') and (GENERATOR_FLAG = 'Y' or TSDR_FLAG = 'Y') Then OI_STATE = state postal code in LU_STATE
O11-120	If Installation or Transporter Country does not equal 'US' or blank, then Installation or Transporter State must equal a foreign state in LU_FOREIGN_STATE or blank.	If OI_COUNTRY <> 'US' or '' Then OI_STATE = foreign state in LU_FOREIGN_STATE or ''
O11-130	If Generator Flag = 'Y' or TSDR Flag equals 'Y' then Installation or Transporter Zip must be provided.	If GENERATOR_FLAG = 'Y' or TSDR_FLAG = 'Y' Then OI_ZIP <> ''
O11-140	If Installation or Transporter Country equals 'US' or blank and Installation or Transporter Zip is provided, then Installation or Transporter Zip must be one of the following formats: 99999 or 99999-9999 or 999999999 where '9' is any numeric value.	If (OI_COUNTRY = 'US' or '') and OI_ZIP <> '' Then OI_ZIP is formatted as 99999 or 99999-9999 or 999999999.
O11-150	Installation or Transporter Country must equal a country code in LU_COUNTRY or blank. If Installation or Transporter Country is blank, a value of 'US' will be assumed.	OI_COUNTRY = country code in LU_COUNTRY or ''

End of document.