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RCRAINFO FILE

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, SIC, 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. Beginning with the 2017, OI information may be loaded into the RCRAInfo database.

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. 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

VERY SMALL QUANTITY GENERATOR (VSQG)

As a result of the 2016 Hazardous Waste Generator Improvements Final Rule, the term Conditionally Exempt Small Quantity Generator (CESQG) has been replaced with Very Small Quantity Generator (VSQG).

ZIP CODES

Zip Codes associated with US addresses must meet one of the following format rules:

- 99999 where '9' is any numeric value
- 999999999 where '9' is any numeric value (Note: the value will be saved to the database as 99999-9999)
- 99999-9999 where '9' is any numeric value

All other zip code formats associated with US addresses will be marked as an error and will prevent the BR data from being loaded into RCRAInfo. These format rules apply to Location Zip, Mailing Zip, Contact Zip, Owner / Operator Zip, and VSQG Zip.

PHONE NUMBERS

Phone Numbers associated with US addresses must meet one of the following format rules:

- 9999999999 where '9' is any numeric value (Note: the value will be saved to the database as 999-999-9999)
- 999-999-9999 where '9' is any numeric value

All other phone number formats associated with US addresses will be marked as an error and will prevent the BR data from being loaded into RCRAInfo. These format rules apply to Contact Phone, Contact Fax, Owner / Operator Phone, Owner / Operator Fax, and VSQG Contact Phone.

EMAIL ADDRESSES

Email addresses must be formatted as [a@a.a](#) where 'a' is at least one alphanumeric character. This format rule applies to Contact Email, Owner/Operator Email, and VSQG Contact Email.

RECYCLER ACTIVITY

The previous Recycler Activity field has been split into two fields: Recycler Activity (old field) and Recycler Activity Non-storage (new field). The Recycler Activity captures recyclers who store prior to recycling. The Recycler Activity – Non-storage captures recyclers who do not store prior to recycling. A

facility may be both a recycler with storage and a recycler without storage. This new field has been added to the SI1 file. The business rules associated with this new field are as follows:

- SI1-333: Non-storage Recycler Activity must equal 'Y' or 'N'.
- SI1-540: If Location Country does not equal 'US' or blank, then Non-storage Recycler Activity must equal 'N'.

RECOGNIZED TRADER

Two new fields have been added to the SI1 file to capture information related to Recognized Traders: Recognized Trader – Importer and Recognized Trader – Exporter. The business rules associated with these new fields are as follows:

- SI1-540: If Location Country does not equal 'US' or blank, then Recognized Trader Importer must equal 'N' and Recognized Trader Exporter must equal 'N'.
- SI1-560: Recognized Trader Importer must equal 'Y' or 'N'.
- SI1-570: Recognized Trader Exporter must equal 'Y' or 'N'.

IMPORTER/EXPORTER OF SPENT LEAD ACID BATTERIES (SLABS)

Two new fields have been added to the SI1 file to capture information related to Importers/Exporters of Spent Lead Acid Batteries (SLABs): SLAB – Importer and SLAB – Exporter. The business rules associated with these new fields are as follows:

- SI1-540: If Location Country does not equal 'US' or blank, then SLAB Importer must equal 'N' and SLAB Exporter must equal 'N'.
- SI1-580: SLAB Importer must equal 'Y' or 'N'.
- SI1-590: SLAB Exporter must equal 'Y' or 'N'.

SHORT-TERM GENERATOR COMMENTS

A comment field has been created to capture notes / comments as to why a handler is considered a short-term generation. Business Rules associated with this comment field are as follows:

- SI1-277: If Short-term Generator = 'Y' then Short-term Generator Comments must be provided.
- SI1-278: If Short-term Generator = 'N' then Short-term Generator Comments must be null.

COMMENTS / NOTES

The comments / notes provided in SI1, SI2, GM1, and WR1 are now considered public information. They will be stored in the database in the appropriate PUBLIC_NOTES field.

HAZARDOUS SECONDARY MATERIAL

On January 13, 2015, EPA published the Definition of Solid Waste (DSW) final rule (80 FR 1694), which revised the regulations related to certain exclusions from solid and hazardous waste regulation. Changes made to the Site ID form and Addendum to the Site ID Form which affects the Biennial Report include:

- Removal of the Financial Assurance field from SI9.
- Addition of SIC file (see Appendix A for fields and business rules) to capture facilities that are notifying under 40 CFR 260.43(a)(4)(iii) that the product of their recycling process has levels of hazardous constituents that are not comparable to or unable to be compared to a legitimate product or intermediate but that the recycling is still legitimate.
- New definition for Facility Code 11 – HSM Generator and Permitted Reclaimer of Imported HSM: This code applies if you import hazardous secondary material from a foreign entity and reclaim the material at your facility under a RCRA Part B permit or under interim status standards. (If you do not have a RCRA Part B permit and are not operating under interim status standards and, instead, have obtained a variance to receive hazardous secondary material under this exclusion, use Facility Code 18.)
- New Facility Codes
 - 12 – HSM Generator Transferring HSM Off-site to a Remanufacturer: This code applies if you generate and send hazardous secondary material to a remanufacturer in the pharmaceutical, basic organic chemical, plastics and resins, and/or paint and coatings manufacturing sectors.
 - 13 – Remanufacturer Receiving HSM from Off-site: This code applies if you remanufacture hazardous secondary material received from an off-site domestic hazardous secondary material generator. You must be in the pharmaceutical, basic organic chemical, plastics and resins, and/or paint and coatings manufacturing sectors to use this code.
 - 14 – Variance for Materials that are Accumulated Speculatively: This code applies if you operate under an approved variance from EPA or your State for materials that are accumulated speculatively without sufficient amounts being recycled (see 40 CFR 260.31(a)).
 - 15 – Variance for Materials that are Reclaimed and then Reused within the Original Production Process: This code applies if you operate under an approved variance from EPA or your State for materials that are reclaimed and then reused as feedstock within the original production process in which the materials were generated (see 40 CFR 260.31(b)).
 - 16 – Variance for Materials that are Partially-Reclaimed: This code applies if you operate under an approved variance from EPA or your State for materials that have been partially-reclaimed but must be reclaimed further before recovery is completed if the partial reclamation has produced a commodity-like material (see 40 CFR 260.31(c)).

- 17 – Variance for HSM Transferred for Reclamation and Managed at a Verified Reclamation Facility: This code applies if you operate under an approved variance from EPA or your State for hazardous secondary materials that are transferred to you for reclamation under 40 CFR 261.4(a)(24) (see 40 CFR 260.31(d)). (If you have not obtained a variance to receive hazardous secondary material under this exclusion and, instead, have a RCRA Part B or operate under interim status standards, use Facility Code 7).
- 18 – Variance for HSM Transferred and Managed at a Verified Intermediate Facility: This code applies if you operate under an approved variance from EPA or your State for hazardous secondary materials that are transferred to you for storage greater than 10 days under 40 CFR 261.4(a)(24) (see 40 CFR 260.331(d)). (If you have not obtained a variance to receive hazardous secondary material under this exclusion and, instead, have a RCRA Part B permit or operate under interim status standards as an intermediate facility, use Facility Code 8 above).
- 19 – Variance for HSM Imported and Managed at a Verified Reclamation Facility: This code applies if you operate under an approved variance from EPA or your State for hazardous secondary materials that are imported to you for reclamation at your site under 40 CFR 261.4(a)(24) (see 40 CFR 260.31(d)). (If you have not obtained a variance to receive hazardous secondary material under this exclusion and, instead, have a RCRA Part B permit or operate under interim status standards, use Facility Code 7).
- 20 – Non-waste Determination for HSM Reclaimed in a Continuous Industrial Process: This code applies if you operate under an approved non-waste determination from EPA or your State for hazardous secondary material which is reclaimed in a continuous industrial process (see 40 CFR 260.34(b)).
- 21 – Non-waste Determination for HSM that are Indistinguishable from a Product or Intermediate: This code applies if you operate under an approved non-waste determination from EPA or your State for hazardous secondary materials which is indistinguishable in all relevant aspects from a product or intermediate (see 40 CFR 260.34(c)).

STREET ADDRESSES

The Street Address fields (both Street Address 1 and Street Address 2) have been increased to a length of 50 characters each. This applies to the Location Address, Mailing Address, Contact Address, Owner / Operator Address, and VSQG Address.

FIRST NAME / LAST NAME

The First Name and Last Name fields have been increased to a length of 38 characters each. This applies to the Contact First and Last Name, Certifier First and Last Name, and VSQG Contact First and Last Name.

OWNER / OPERATOR NAME

The Owner / Operator Name field has been increased to a length of 80 characters.

OWNER / OPERATOR BUSINESS RULES

The following fields in the SI2 file are now required: STREET1, CITY, ZIP, EMAIL, and PHONE. Additionally, if the address is a US address (i.e., COUNTRY = 'US' or ' '), then STATE is also required. See the business rules in Appendix A for additional details.

STATES OPTED INTO SUBPART K, HAZARDOUS SECONDARY MATERIAL, AND/OR LQG CONSOLIDATION OF VSQG HAZARDOUS WASTE

States will not be allowed to submit Subpart K, Hazardous Secondary Material, and/or LQG Consolidation of VSQG Hazardous Waste information via the Biennial Report Load Process if they have not first opted into these activities via RCRAInfo. The following validations have been added to enforce these rules:

- SI1-550: If Subpart K – College, Subpart K – Hospital, Subpart K – Non-profit, or Subpart K – Withdrawal equals 'Y' then Activity Location must be opted into Subpart K.
- SI9-070: Activity Location must be opted into HSM.
- SIE-030: Activity Location must be opted into LQG Consolidation of VSQG Hazardous Waste.

NOTIFICATION OF LQG SITE CLOSURE FOR A CENTRAL ACCUMULATION AREA OR ENTIRE FACILITY

Effective June 1, 2017, Large Quantity Generators must notify if they are closing their facility or optionally notify if they are closing a central accumulation area. A new flat file (SID) has been created to capture this information. See Appendix A for the flat file specification and business rules associated with this file.

LQG CONSOLIDATION OF VSQG HAZARDOUS WASTE

Effective June 1, 2017, Large Quantity Generators may notify of VSQG hazardous waste under the control of the same person pursuant to 40 CFR 262.17(f). These LQGs must complete the LQG Consolidation of VSQG Hazardous Waste Addendum. **Note: The State must adopt this rule in order for an LQG to provide this addendum.** A new flat file (SIE) has been created to capture this information. See Appendix A for the flat file specification and business rules associated with this file.

ELECTRONIC MANIFEST BROKER

A new field, Manifest Broker, has been created in the SI1 file to capture handlers notifying as a person, as defined in 40 CFR 260.10, electing to use the EPA electronic manifest system to obtain, complete, and transmit an electronic manifest under a contractual relationship with a hazardous waste generator. The business rule associated with this field is as follows:

- SI1-600: Manifest Broker must equal 'Y' or 'N'.

INVALID OFF-SITE EPA HANDLER IDS

TSD Facilities are allowed to aggregate wastes across generating sites in accordance with the special instructions outlined in the *RCRA Subtitle C Reporting, Instructions and Forms*. To prevent entries in this field that may cause waste to be associated with an erroneous State, a validation has been added (see GM4-035 and WR1-055) that no longer permits the words 'VARIOUS', 'MISC', or 'MANY' as valid values for this field.

Additionally, the id must be at least four characters and no more than twelve characters in length (see GM4-037 and WR1-057).

MANAGEMENT METHOD CODES

The management method code "H132" currently defined as landfill or surface impoundment that will be closed as landfill (to include treatment and/or stabilization) is being separated into two management method codes:

- H130 – Surface impoundment that will be closed as a landfill (with prior treatment and/or stabilization)
- H132 – Landfill (with prior treatment and/or stabilization)

The definitions of management method codes "H135" and "H141" have been revised as follows:

- H135 – Discharge to sewer/POTW or NPDES with prior management (e.g., storage or transported prior to discharge to POTW or NPDES)
- H141 – The site receiving this waste stored/bulked and transferred the waste with no reclamation, recovery, destruction, treatment, or disposal at that site. Do not use in Item 1.D for Source Code G25 nor in Item 2 (on-site management) of the GM Form. If reported on a WR Form, you should report a matching waste stream with a G61 source code and a generation quantity of 0 on the GM Form.

SOURCE CODES

A new source code, G51, has been added with a definition as follows:

- G51 – Received hazardous waste from a VSQG that is under the control of the same person, as defined in 40 CFR 260.10.

The definitions of source codes “G25” and “G61” have been revised as follows:

- G25 – Treatment, disposal or recycling of hazardous wastes – report the management method code that produced the residuals (e.g., the management method indicated in Item G of the WR Form). This cannot be management method code H141.
- G61 – Received from off-site for storage/bulking and transfer off-site for treatment or disposal (to match received waste quantities from the WR Form with a management method code of H141). Generation quantity should be reported as 0 to avoid double counting of the waste.

FOREIGN SITE IDENTIFICATION NUMBERS

EPA is implementing site-specific identification numbers for foreign sites for use in reporting hazardous waste import and export shipments. See the *RCRA Subtitle C Reporting, Instructions and Forms* for a sample list and additional details.

OI FORM

Beginning with the 2017 BR Cycle, States may optionally load information collected on the OI Form into the RCRAInfo database. The flat file specification for this form has been revised to be consistent with the other flat files. Additionally, business rules are now provided for this flat file.

ZIP FILE NAME

The ZIP file name associated with the submission no longer requires that the three-character TSSMS ID be included. See Flat File Submissions below for additional details.

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.

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

States that allow facilities to manage hazardous secondary material under 40 CFR 260.30, 40 CFR 261.4(a)(23), (24), 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, SIB, and SIC

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 *RCRA 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-SIE, 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 |

Files must be named using all **uppercase** characters.

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 |
| MIXED_WASTE_GENERATOR | 824 | 1 | A | Mixed Waste (hazardous and radioactive) Generator | SI-10-A-3 | Required | SI1-290, SI1-295, SI1-540 |
| TRANSPORTER | 825 | 1 | A | Transporter of Hazardous Waste | SI-11-A-1-a | Required | SI1-300 |

| Field Name | Starting Column | Field Length | Data Type | Description | Location on Form | Required / Cond. Required | Edit Number(s) |
|--------------------------------|-----------------|--------------|-----------|--|------------------|---------------------------|---------------------------|
| TRANSFER_FACILITY | 826 | 1 | A | Transfer Facility of Hazardous Waste | SI-11-A-1-b | Required | SI1-310, SI1-540 |
| TSD_ACTIVITY | 827 | 1 | A | Treater, Storer, or Disposer of Hazardous Waste in a Permitted Unit | SI-10-A-4 | Required | SI1-320, SI1-520, SI1-540 |
| RECYCLER_ACTIVITY | 828 | 1 | A | Recycler of Hazardous Waste Who Stores Prior to Recycling | SI-10-A-6-a | Required | SI1-330, SI1-520, SI1-540 |
| ONSITE_BURNER_EXEMPTION | 829 | 1 | A | Small Quantity On-Site Burner Exemption | SI-10-A-7-a | Required | SI1-340, SI1-520, SI1-540 |
| FURNACE_EXEMPTION | 830 | 1 | A | Smelting, Melting, and Refining Furnace Exemption | SI-10-A-7-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-5 | 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-6-b | Required | SI1-333, 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 |
| 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 |

| Field Name | Starting Column | Field Length | Data Type | Description | Location on Form | Required / Cond. Required | Edit Number(s) |
|-----------------------------|-----------------|--------------|-----------|---------------------------------------|------------------|---------------------------|------------------|
| PUBLIC_NOTES | 852 | 1000 | A | Comments / Notes | SI-18 | | |
| SHORT_TERM_GENERATOR_NOTES | 1852 | 240 | A | Short-term Generator Comments / Notes | SI-18 | Cond. Required | SI1-277, SI1-278 |
| Total Record Length: | | 2091 | | | | | |

| 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 | <p>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.</p> <p>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.</p> | <p>If LOCATION_COUNTRY = 'US' or '' and SUBSTR(HANDLER_ID,1,2) <> 'NN' Then LOCATION_STATE = SUBSTR(HANDLER_ID,1,2)</p> <p>If LOCATION_COUNTRY = 'US' or '' and SUBSTR(HANDLER_ID,1,2) = 'NN' Then LOCATION_STATE = state postal code in LU_STATE</p> |
| 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 '' |

| S11 Flat File Edit Specifications | | |
|-----------------------------------|--|--|
| Edit Number | Edit Description | Select Logic |
| S11-095 | 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 = ''. |
| S11-100 | 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 <> '' |

| S11 Flat File Edit Specifications | | |
|-----------------------------------|--|--|
| Edit Number | Edit Description | Select Logic |
| S11-225 | 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. |
| S11-226 | 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. |
| S11-230 | 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. |
| S11-240 | 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 |
| S11-260 | 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 |
| S11-270 | Short Term Generator must equal 'Y' or 'N'. | SHORT_TERM_GENERATOR = 'Y' or 'N' |
| S11-275 | If Short Term Generator equals 'Y', then Federal Waste Generator Status cannot equal 'N'. | If SHORT_TERM_GENERATOR = 'Y' Then FED_WASTE_GENERATOR <> 'N' |
| S11-277 | If Short Term Generator equals 'Y', then Short-term Generator Notes must be provided. | If SHORT_TERM_GENERATOR = 'Y' Then SHORT_TERM_GENERATOR_NOTES <> '' |
| S11-278 | If Short Term Generator equals 'N', then Short-term Generator Notes cannot be provided. | If SHORT_TERM_GENERATOR = 'N' Then SHORT_TERM_GENERATOR_NOTES = '' |
| S11-280 | Importer Activity must equal 'Y' or 'N'. | IMPORTER_ACTIVITY = 'Y' or 'N' |
| S11-290 | Mixed Waste Generator must equal 'Y' or 'N' | MIXED_WASTE_GENERATOR = 'Y' or 'N' |
| S11-295 | If Mixed Waste Generator equal 'Y' Then Federal Waste Generator Status cannot equal 'N'. | If MIXED_WASTE_GENERATOR = 'Y' Then FED_WASTE_GENERATOR <> 'N' |
| S11-300 | Transporter Activity must equal 'Y' or 'N' | TRANSPORTER_ACTIVITY = 'Y' or 'N' |
| S11-310 | Transfer Facility must equal 'Y' or 'N' | TRANSFER_FACILITY = 'Y' or 'N' |
| S11-320 | TSD Activity must equal 'Y' or 'N' | TSD_ACTIVITY = 'Y' or 'N' |
| S11-330 | Recycler Activity must equal 'Y' or 'N' | RECYCLER_ACTIVITY = 'Y' or 'N' |
| S11-333 | Non-storage Recycler Activity must equal 'Y' or 'N' | RECYCLER_ACTIVITY_NONSTORAGE = 'Y' or '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' |

| S11 Flat File Edit Specifications | | |
|-----------------------------------|--|---|
| Edit Number | Edit Description | Select Logic |
| S11-475 | 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' |
| S11-480 | Include this Information in the National Hazardous Waste Report must equal 'Y' or 'N' | INCLUDE_IN_NATIONAL_REPORT = 'Y' or 'N' |
| S11-490 | For each handler in S11, one NAICS record must exist in S13 where the NAICS Sequence equals 1. | For each HANDLER_ID in S11 there must be a record in S13 where NAICS_SEQ = 1. |
| S11-500 | For each handler in S11, one certification record must exist in S17 where the Certification Sequence equals 1. | For each HANDLER_ID in S11 there must be a record in S17 where CERT_SEQ = 1. |
| S11-510 | For each handler in S11, at least one owner record must exist in S12 where the Owner / Operator Indicator equals 'CO' and at least one operator record must exist in S12 where the Owner / Operator Indicator equals 'CP'. | For each HANDLER_ID in S11 there must be a record in S12 where OWNER_OPERATOR_INDICATOR = 'CO' and a record in S12 where OWNER_OPERATOR_INDICATOR = 'CP' |
| S11-520 | If Federal Generator Status equals '1', '2', or '3', or TSD Activity equals 'Y' or Recycler Activity equals 'Y' or Small Quantity On-Site Burner Exemption equals 'Y' or Smelting, Melting, and Refining Furnace Exemption equals 'Y', then one waste code record must exist in S14 or S15. | If FED_WASTE_GENERATOR = '1' or '2' or '3' or TSD_ACTIVITY = 'Y' or RECYCLER_ACTIVITY = 'Y' or ONSITE_BURNER_EXEMPTION = 'Y' or FURNACE_EXEMPTION = 'Y' Then there must be a record in S14 or S15 where HANDLER_ID in S14 or S15 = HANDLER_ID in S11. |
| S11-530 | 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 S19 where HANDLER_ID in S11 = HANDLER_ID in S19. |

| 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, Mixed Waste 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, and Exporter of Spent Lead Acid Batteries. | If LOCATION_COUNTRY <> 'US' or ' ' Then FED_WASTE_GENERATOR = 'N' and IMPORTER_ACTIVITY = 'N' and SHORT_TERM_GENERATOR = 'N' and MIXED_WASTE_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' |
| 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' |

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 | Required | SI2-105, 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 | Required | SI2-115, 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. |
| SI2-105 | Owner / Operator Phone must be provided. | PHONE <> '' |
| SI2-110 | If Owner / Operator Country is equal 'US' or blank, then Owner / Operator Phone must be formatted as 999-999-9999 or 9999999999 where "9" is any numeric value. | If (COUNTRY = 'US' or '') Then PHONE is formatted as 9999999999 or 999-999-9999. |
| SI2-115 | Owner / Operator Email must be provided. | EMAIL <> '' |
| SI2-120 | Owner / Operator Email must be formatted as a@a.a where "a" is any alphanumeric value. | 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 CESQG), 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 | | | | | |

| S16 Flat File Edit Specifications | | |
|-----------------------------------|---|--|
| Edit Number | Edit Description | Select Logic |
| S16-010 | Handler ID must exist in S11. | HANDLER_ID must exist in S11 |
| S16-020 | Universal Waste Owner must equal 'HQ' or the State of submission. | UNIVERSAL_WASTE_OWNER = 'HQ' or State of submission |
| S16-030 | 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 |
| S16-040 | If Universal Waste Owner equals 'HQ' then Accumulated / Managed must equal 'Y' | If UNIVERSAL_WASTE_OWNER = 'HQ' Then ACCUMULATED = 'Y' |
| S16-050 | 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' |
| S16-060 | 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' |
| S16-070 | 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. At least 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 | 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), 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), 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), 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

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

This file captures the information contained in Item 16.B 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 SIC file must contain a unique Handler ID.

Note: The SIC file is REQUIRED for handlers that are notifying under 40 CFR 260.43(a)(4)(iii) that the product of their recycling process has levels of hazardous constituents that are not comparable to or unable to be compared to a legitimate product or intermediate but that the recycling is still legitimate.

| 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 |
| RECYCLER_INDICATOR | 13 | 1 | A | Recycler Indicator | SI-16-B | Required | SI9-020 |
| RECYCLER_NOTES | 14 | 1000 | A | Recycler Notes / Comments | SI-19 | | |
| Total Record Length: | | 1013 | | | | | |

| SIC Flat File Edit Specifications | | |
|-----------------------------------|---|---|
| Edit Number | Edit Description | Select Logic |
| SIC-010 | Handler ID must exist in SI1. | HANDLER_ID must exist in SI1 |
| SIC-020 | Recycler Indicator must equal 'Y' or 'N' | RECYCLER_INDICATOR = 'Y' or 'N' |
| SIC-030 | Activity Location must be opted into HSM. | RCRA_LU_ACTIVITY_LOC_SETTINGS.HSM = 'Y' |

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 = '' |

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-F | Required | GM1-080, GM1-090, GM1-100 |
| WST_DENSITY | 23 | 6 | D3.2 | Density | GM-1-F | Cond. Required | GM1-090 |
| DENSITY_UNIT_OF_MEASURE | 29 | 1 | A | Density Unit of Measure (1 = lbs/gal; 2 = specific gravity) | GM-1-F | 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-G | Required | GM1-110 |
| SOURCE CODE | 35 | 3 | A | Source Code | GM-1-D | Required | GM1-040, GM1-050, GM1-055, GM1-056 |

| Field Name | Starting Column | Field Length | Data Type | Description | Location on Form | Required / Cond. Required | Edit Number(s) |
|-----------------------------|-----------------|--------------|-----------|--|------------------|---------------------------|---------------------------|
| GEN_QTY | 38 | 18 | D11.6 | Quantity Generated in Reporting Year | GM-1-F | 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 |
| Total Record Length: | | 538 | | | | | |

| 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. |

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, WR1-130 |
| 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 |
| IO_TDR_ID | 36 | 12 | A | Off-Site Source EPA ID Number | WR-D | Required | WR1-050, WR1-055 |
| IO_TDR_QTY | 48 | 18 | D11.6 | Quantity Received in Current Reporting Year | WR-E | Required | WR1-060 |

| Field Name | Starting Column | Field Length | Data Type | Description | Location on Form | Required / Cond. Required | Edit Number(s) |
|-----------------------------|-----------------|--------------|-----------|--------------------------|------------------|---------------------------|----------------|
| 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 |
| WR1-060 | Total Quantity Received in Current Reporting Year must be greater than zero and less than 99,999,999,999.999999. | IO_TDR_QTY > 0 and <= 99999999999.999999 |
| 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 | Required | OI1-090 |
| OI_STREET2 | 175 | 50 | | Installation or Transporter Street Address2 | | | |
| OI_CITY | 225 | 25 | A | Installation or Transporter City | OI-D | 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 | 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. | SUBSTR(OFFSITE_INSTALLATION_ID,1,2) = state postal code in LU_STATE |
| 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 | Installation or Transporter Street1 must be provided. | OI_STREET1 <> '' |
| O11-100 | Installation or Transporter City must be provided. | OI_CITY <> '' |
| O11-110 | If Installation or Transporter Country equals 'US' or blank, then Installation or Transporter State must equal a state postal code in LU_STATE. | If OI_COUNTRY = 'US' or '' 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 | Installation or Transporter Zip must be provided. | OI_ZIP <> '' |
| O11-140 | If Installation or Transporter Country equals 'US' or blank, 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 '' 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.