**Department of Energy**

Portsmouth/Paducah Project Office
1017 Majestic Drive, Suite 200
Lexington, Kentucky 40513
(859) 219-4000

June 26, 2024

Ms. Kathryn Caballero
Director
Federal Facility Enforcement Office
U.S. Environmental Protection Agency, Headquarters
1200 Pennsylvania Avenue NW
Mail Code 2261A
Washington, DC 20460

PPPO-02-10028027-24B

Ms. Kathleen Doster, ESQ
Federal Facility Enforcement Office
U.S. Environmental Protection Agency Headquarters
1200 Pennsylvania Avenue NW
Mail Code 2261A
Washington, DC 20460

Ms. Terri Crosby-Vega
Regional PCB Program Coordinator/Team Lead
Resource Conservation and Restoration Division
U.S. Environmental Protection Agency, Region 4
Atlanta Federal Center 9T25
61 Forsyth Street SW
Atlanta, Georgia 30303-8960

Dear Ms. Caballero, Ms. Doster, and Ms. Crosby-Vega:

**TRANSMITTAL OF THE URANIUM ENRICHMENT TOXIC SUBSTANCES CONTROL ACT COMPLIANCE AGREEMENT 2023 ANNUAL COMPLIANCE AGREEMENT REPORT JANUARY 1 THROUGH DECEMBER 31, 2023, FOR THE PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, FRNP-RPT-0352**

Please find enclosed the subject report for the U.S. Department of Energy Paducah Site. This annual report is required under the Toxic Substances Control Act (TSCA) Compliance Agreement (CA), as modified on May 30, 2017. This report documents progress on TSCA CA activities at Paducah, Kentucky, for the period from January 1, 2023, through December 31, 2023.

If you have any questions or require additional information, please contact Ryan Callihan at (740) 897-2835.

Sincerely,

APRIL LADD

Digitally signed by APRIL LADD
Date: 2024.06.26 09:20:53 -05'00'

April Ladd
Paducah Site Lead
Portsmouth/Paducah Project Office

Enclosure:
*Uranium Enrichment Toxic Substances Control Act Compliance Agreement 2023 Annual Compliance Agreement Report January 1 through December 31, 2023, for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, FRNP-RPT-0352

cc w/enclosure:
abigail.parish@pppo.gov, PPPO
april.ladd@pppo.gov, PPPO
brian.bell@pad.pppo.gov, FRNP
caballero.kathryn@epa.gov, EPA
carrie.maxie@pad.pppo.gov, FRNP
crosby-vega.terri@epa.gov, EPA
doster.kathleen@epa.gov, EPA
frnpcorrespondence@pad.pppo.gov
joel.bradburne@pppo.gov, PPPO
myrna.redfield@pad.pppo.gov, FRNP
pad.rmc@pad.pppo.gov, FRNP
reinhard.knerr@pppo.gov, PPPO
ryan.callihan@pppo.gov, PPPO

FRNP-RPT-0352

# Uranium Enrichment Toxic Substances Control Act Compliance Agreement 2023 Annual Compliance Agreement Report January 1 through December 31, 2023, for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky

FOUR RIVERS NUCLEAR PARTNERSHIP, LLC

**CLEARED FOR PUBLIC RELEASE**

**FRNP-RPT-0352**

# Uranium Enrichment Toxic Substances Control Act Compliance Agreement 2023 Annual Compliance Agreement Report, January 1 through December 31, 2023, for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky

Date Issued—June 2024

U.S. DEPARTMENT OF ENERGY
Office of Environmental Management

Prepared by
FOUR RIVERS NUCLEAR PARTNERSHIP, LLC,
Managing the
Deactivation and Remediation Project at the
Paducah Gaseous Diffusion Plant
under Contract No. DE-EM0004895

**CLEARED FOR PUBLIC RELEASE**

# PREFACE

The U.S. Department of Energy (DOE) and the U.S. Environmental Protection Agency entered into the Toxic Substances Control Act (TSCA) Compliance Agreement (CA) to address TSCA compliance at the Paducah, Portsmouth, and Oak Ridge uranium enrichment (UE) facilities. This agreement, signed on February 20, 1992, was intended to bring DOE's UE facilities into full compliance with the TSCA regulations for the management of polychlorinated biphenyls (PCBs). This agreement was modified on September 25, 1997, and modified again on May 30, 2017. At the Paducah facility, the TSCA CA addresses the following:

- Troughing of ventilation duct gaskets;
- Investigation of historic PCB disposal sites;
- Use and removal of leaking potential PCB devices;
- Sampling of air;
- Process lubrication oil;
- Process lubrication oil removal;
- Spill cleanup;
- Storage of PCB waste;
- Building demolition wastes;
- PCB-contaminated slabs;
- Processing of PCB-contaminated demolition material;
- Nonradioactive PCBs and PCB items storage and disposal;
- Co-contaminated, radioactive PCBs and PCB items storage and disposal;
- Ensurance of worker safety measures; and
- Hydraulic systems at the Paducah Gaseous Diffusion Plant.

This Annual CA Report summarizes TSCA CA activities that occurred at the Paducah facility from January 1, 2023, through December 31, 2023.

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# ACRONYMS

| | |
|---|---|
| CA | compliance agreement |
| CD | certificate of disposal |
| *CFR* | *Code of Federal Regulations* |
| CY | calendar year |
| DOE | U.S. Department of Energy |
| EPA | U.S. Environmental Protection Agency |
| FY | fiscal year |
| MOA | memorandum of agreement |
| OSWDF | on-site waste disposal facility |
| TSCA | Toxic Substances Control Act |
| UE | uranium enrichment |

# EXECUTIVE SUMMARY

This Annual Compliance Agreement (CA) Report summarizes the Toxic Substances Control Act (TSCA) CA activities that occurred at the Paducah facility from January 1, 2023, through December 31, 2023.

During calendar year 2023, the Paducah facility continued to address the ongoing elements identified in the TSCA CA, as required by the modified agreement.

The TSCA CA modification, signed on May 30, 2017, requires annual polychlorinated biphenyl (PCB) air sampling. The annual air sampling event took place during June and July, in accordance with the TSCA CA Attachment I, Section 1, Interim Measures, (D) Air Sampling. Results for the annual event did not exceed the TSCA CA reporting level of 0.5 $\mu g/m^3$.

The TSCA CA also includes the following open compliance measures.

- Section 2 (C)—Spill Cleanup
- Section 2 (D)—Storage for Disposal
- Section 2 (E-1)—Building Demolition Wastes
- Section 2 (E-2)—PCB-contaminated Slabs
- Section 2 (E-3)—Processing for the On-Site Waste Disposal Facility
- Section 2 (F)—Other Wastes
  - Nonradioactive PCBs and PCB items
  - Co-contaminated and Radioactive PCBs and PCB items

One PCB gasket and three PCB non-gasket spills were cleaned and closed in accordance with the standards set forth in the TSCA CA Attachment I, Section 2, Compliance Measures, (C) Spill Cleanup. No non-gasket spills were closed as historic spills, in accordance with measures proposed and accepted at previous TSCA Federal Facility Compliance Act Annual Meetings; however, one gasket PCB spill was closed as a historic spill.

The Paducah facility made zero shipments of TSCA-regulated PCB/nonradioactive waste. The Paducah facility shipped for disposal a net weight of approximately 6,906 kg of TSCA-regulated PCB/radioactive waste on 17 Uniform Hazardous Waste Manifests. Fifteen Certificates of Disposal were received in 2023.

# INTEGRATED SCHEDULE SUMMARY

In accordance with paragraph 36 of the Toxic Substances Control Act (TSCA) Compliance Agreement (CA), an annual update on the status of each item on the Integrated Schedule is provided. The Integrated Schedule for fiscal year (FY) 2023, submitted in July 2022, included four ongoing activities, and six activities are scheduled to begin work in the future.

Section 1 (D), Air Sampling, is an ongoing effort and work scheduled for calendar year (CY) 2023 was completed (see Section 1.1).

Section 2 (C), Spill Cleanups, is an ongoing effort and work scheduled for CY 2023 was completed (see Section 2.1).

Section 2 (E-1), Building Demolition Waste, is an ongoing effort, however, there were no scheduled activities related to this item during CY 2023.

Section 2 (E-2), polychlorinated biphenyl (PCB)-contaminated slab management/demolition, is an ongoing effort at the Paducah Site. Currently, there are two PCB-contaminated slabs managed on-site; scheduled activities regarding these slabs were completed for CY 2023 (see Section 2.2.2).

The following six activities also are included in the Integrated Schedule.

(1) No decision has been made for the Paducah facility regarding the on-site waste disposal facility (OSWDF); therefore, there were no scheduled activities related to the design phase of the potential OSWDF. Currently, work associated with this item is scheduled beyond FY 2025.

(2) No decision has been made for the Paducah facility regarding the OSWDF; therefore, there were no scheduled activities related to the construction phase for the first cell of the potential OSWDF during CY 2023. Currently, work associated with this item is scheduled beyond FY 2025.

(3) The waste staging and processing/resizing operations have not been determined to be necessary for the Paducah facility; therefore, there were no scheduled activities related to the design phase during the CY 2023. Currently, work associated with this item is scheduled beyond FY 2025.

(4) The waste staging and processing/resizing operations have not been determined to be necessary for the Paducah facility; therefore, there were no scheduled activities related to the construction phase during the CY 2023. Currently, work associated with this item is scheduled beyond FY 2025.

(5) None of the buildings listed in paragraph 11 of the TSCA CA had any demolition activities associated with them during CY 2023. The C-400 Complex demolition that was slated to start in November 2018 was delayed due to regulatory disputes under the Federal Facility Agreement. A Memorandum of Agreement (MOA) was issued in August 2019 concerning the C-400 Complex demolition regulatory disputes. The MOA allowed the C-400 Complex Remedial Investigation/Feasibility Study project to begin; however, the current schedule for initiating demolition activities extends beyond FY 2024. Currently, work associated with other buildings related to this item is scheduled beyond FY 2024.

(6) During CY 2023, no PCB-contaminated slab demolition was scheduled. Currently, work associated with this item is scheduled beyond FY 2025.

# 1. INTERIM MEASURES

## AIR SAMPLING

Both the original Uranium Enrichment Toxic Substances Control Act (TSCA) Compliance Agreement (CA) and the TSCA CA modification signed on May 30, 2017, require polychlorinated biphenyl (PCB) air sampling to be conducted in process buildings with motor exhaust duct ventilation systems. These buildings include the C-331, C-333, C-335, and C-337 process buildings at the Paducah facility.

The TSCA CA modification signed on May 30, 2017, requires two samples per process building to be taken once annually anytime during the months of June, July, and August. For each annual air monitoring activity in a building, there will be a best engineering judgment-selected site and a randomly selected site. The results for the 2023 PCB air sampling event are shown in Table 1.

The U.S. Department of Energy (DOE) is required to report to the U.S. Environmental Protection Agency (EPA) any PCB concentrations greater than 0.5 $\mu g/m^3$ measured from any air-monitoring sampler at any location.

The sampling was conducted as described in the National Institute for Occupational Safety and Health 5503. The volumes and flow rates, as noted, were necessary to achieve the detection limit required by the TSCA CA.

**Table 1. Annual CY 2023**

| Calendar Year | Sample Numbers | Sample Date | Building | Floor | Sample Location | Method of Selection | Results[a] (µg/m3) | Qualifier | Pump Flow Rate (liters/minute) | Air Volume Sampled (liters) |
|---|---|---|---|---|---|---|---|---|---|---|
| 2023 | PCB23-AIR-01-01 | 7/11/2023 | C-331 | GROUND | NW of K-27 | RANDOM | 0.080 | | 1.01 | 507 |
| 2023 | PCB23-AIR-01-02 | 7/11/2023 | C-331 | CELL | At J-26 | BEJ | 0.060 | | 1.01 | 512 |
| 2023 | PCB23-AIR-01-03R[b] | 7/13/2023 | C-333 | GROUND | E of Y-34 | RANDOM | 0.150 | | 1 | 503 |
| 2023 | PCB23-AIR-01-04 | 7/11/2023 | C-333 | GROUND | At Na-38 | BEJ | 0.060 | | 0.99 | 487 |
| 2023 | PCB23-AIR-01-05 | 7/11/2023 | C-335 | GROUND | At T-26 | RANDOM | 0.050 | | 1 | 482 |
| 2023 | PCB23-AIR-01-06 | 7/11/2023 | C-335 | CELL | NW of FF-12 | BEJ | 0.040 | | 0.99 | 497 |
| 2023 | PCB23-AIR-01-07 | 7/11/2023 | C-337 | GROUND | W of Ub-37 | RANDOM | 0.030 | | 1 | 500 |
| 2023 | PCB23-AIR-01-08 | 7/11/2023 | C-337 | GROUND | S of X-10 | BEJ | 0.040 | | 0.99 | 498 |

[a] The action level for reporting to the EPA is 0.5µg/m3.
[b] Sample was retaken due to the pump not running for sufficient sample duration.

# 2. COMPLIANCE MEASURES

## 2.1 SPILL CLEANUP

The TSCA CA requires that PCB spills and PCB-contaminated oil that may leak onto building floors be cleaned in accordance with the EPA PCB Spill Cleanup Policy in 40 *CFR* Part 761, Subpart G. Reports documenting PCB spills and PCB spill cleanup measures are required to be prepared each quarter and are summarized in this Annual CA Report. Record copies of cleanup documentation are kept on-site and are available for inspection.

The TSCA CA allows historic spills, those that occurred before March 19, 1992, to be left in place until demolition of the facility. PCB high-concentration gasket spills (i.e., from a source of 500 ppm or greater in PCB concentration) that occurred on building floors after March 19, 1992, shall be verified closed, in accordance with the requirements of the TSCA CA.

The following is a summary of PCB gasket spill activities for CY 2023:

- Remaining PCB gasket spill sites awaiting verification of successful cleaning as of December 31, 2022—6
- Number of new PCB gasket spill sites identified during reporting period—9
- Number of total PCB gasket spill sites closed during reporting period—7
- Remaining PCB gasket spill sites awaiting verification of successful cleaning as of December 31, 2023—11
- Number of PCB gasket spill sites closed as a historic spill—0

A quarterly breakdown of PCB gasket spill information can be found in Figure 1.

The following is a summary of PCB non-gasket spill activities for CY 2023:

- Remaining PCB non-gasket spill sites awaiting verification of successful cleaning as of December 31, 2022—8
- Number of new PCB non-gasket spill sites identified during reporting period—0
- Number of total PCB non-gasket spill sites closed during reporting period—0
- Remaining PCB non-gasket spill sites awaiting verification of successful cleaning as of December 31, 2023—8
- Number of PCB non-gasket spill sites closed as a historic spill—0

A quarterly breakdown of PCB non-gasket spill information can be found in Figure 2.

All PCB gasket spills identified were high concentration PCB spills (i.e., from a source of 500 ppm or greater in PCB concentration). Cleanup of each identified spill site was initiated within 24 hours, in accordance with the TSCA CA. Clearly visible signs have been posted at each spill site advising personnel

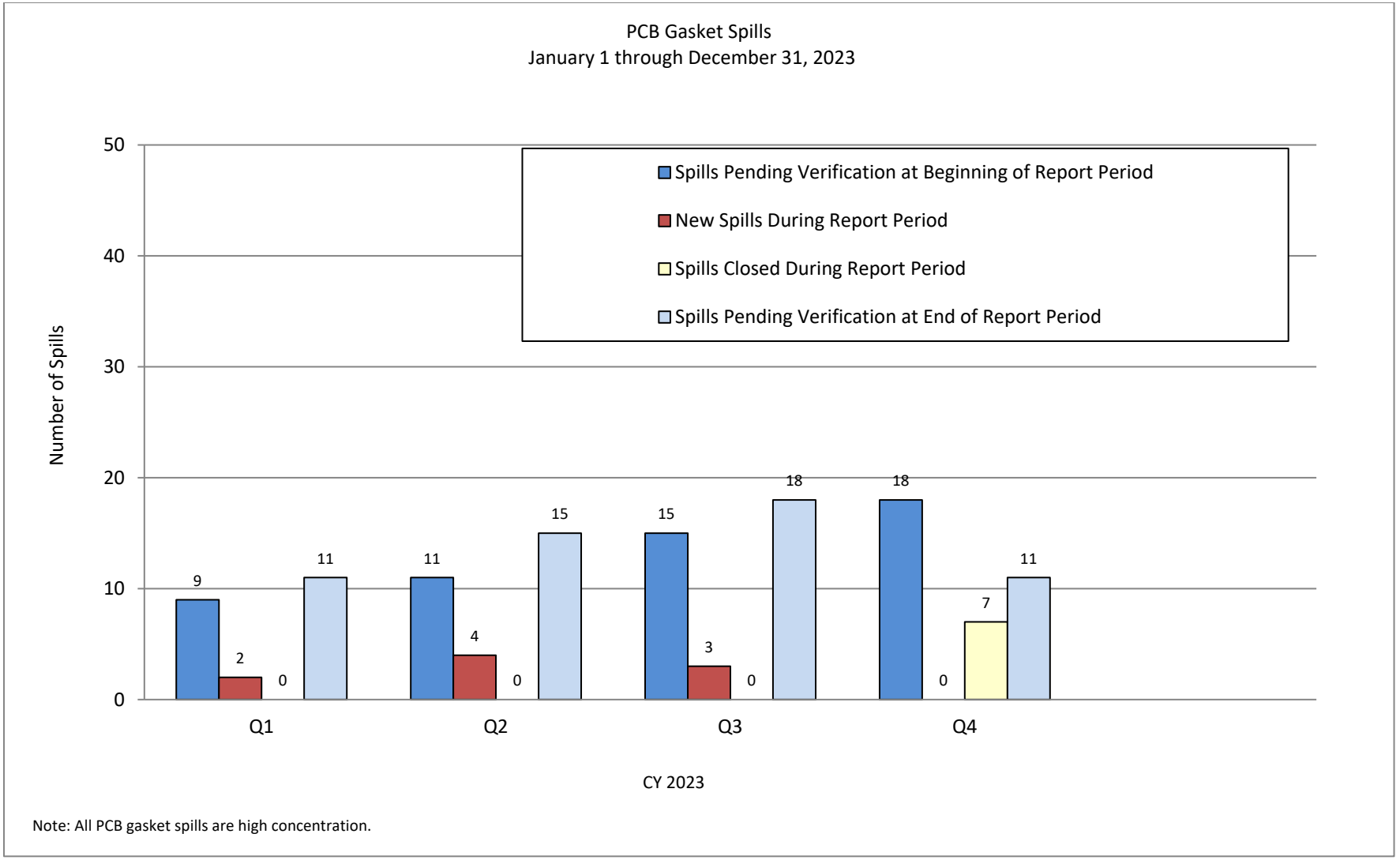


**Figure 1. Quarterly Summary of PCB Gasket Spills**

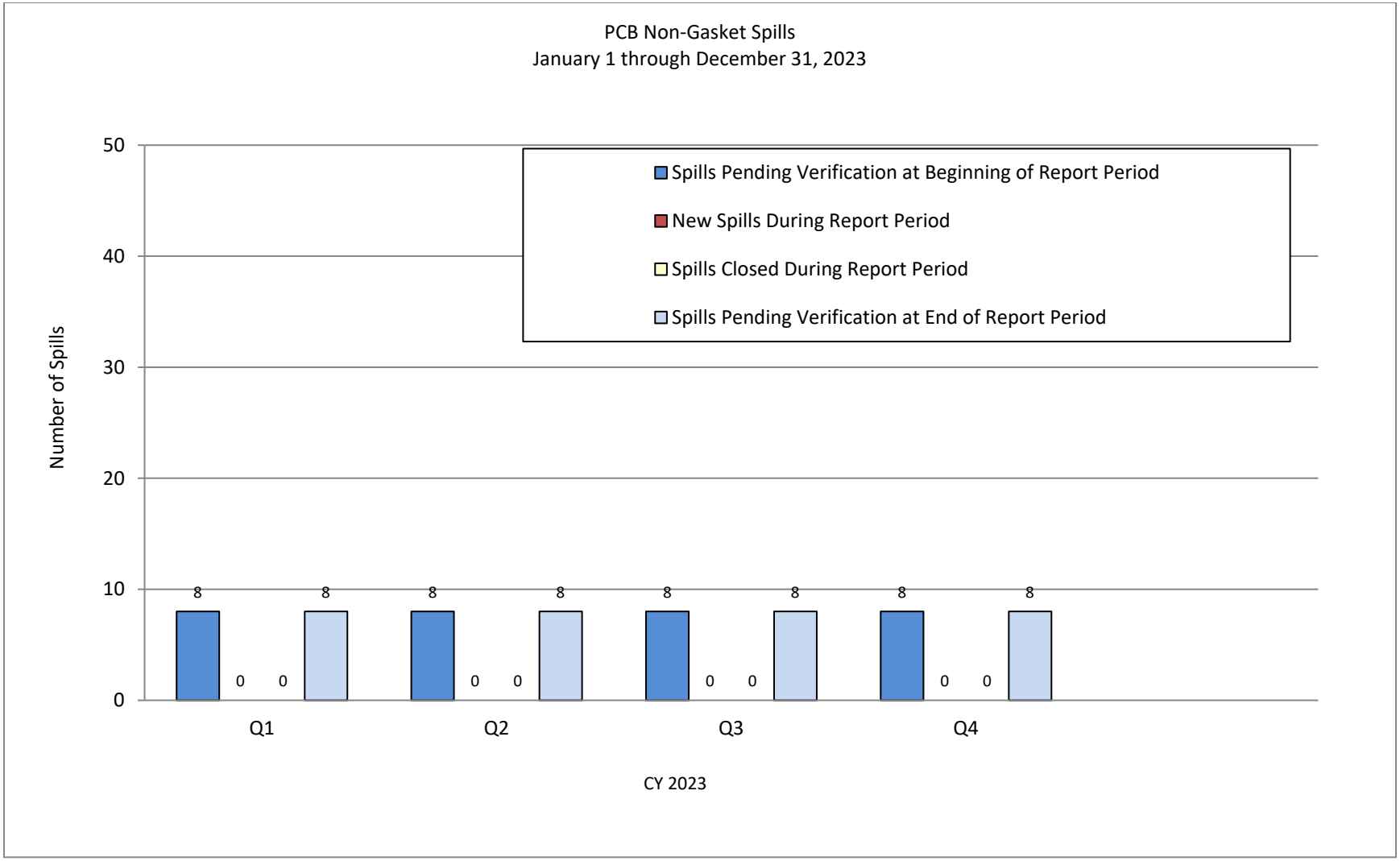


**Figure 2. Quarterly Summary of PCB Non-Gasket Spills**

to avoid the area in order to minimize the spread of contamination and the potential for human exposure. The cleanup documentation and records are available for inspection. Some PCB spills have occurred, which involve equipment, and the cleanup to meet the specified standards and/or CA allowances is not practical due to the configuration of the equipment. Some equipment is still in use and unless the equipment is removed from service and dismantled for disposal, there is no means with which to clean or to meet the intent of the TSCA CA requirements. For these spills, DOE has proposed that the safest and most practical approach to address the equipment is to encapsulate the contaminated surface or otherwise restrict access and remove the equipment as part of the future building demolition and dispose of the equipment at that time. The spills were originally cleaned to the extent practical, and regular inspections are performed to ensure that further leaking materials, if any, are addressed appropriately. A variance was developed in March 2021 and delivered to the EPA in May 2021.

## 2.2 BUILDING DEMOLITION

### 2.2.1 Building Demolition Wastes

The TSCA CA requires building demolition waste comprised of PCBs or PCB items (as defined in 40 *CFR* § 761.3) to be managed and disposed of as directed in 40 *CFR* § 761.50. In particular, building demolition waste comprised of PCB-contaminated ventilation ducts, gaskets, flanges, piping, or other materials containing PCBs as a result of a spill, release, or other unauthorized disposal shall be managed and disposed of as PCB remediation waste in accordance with 40 *CFR* § 761.61. During the CY 2023, no building demolition waste containing PCB waste, PCB items, or PCB remediation waste were generated.

### 2.2.2 PCB-Contaminated Slabs

The TSCA CA requires that PCB-contaminated slabs from buildings listed in paragraph 11 of the agreement shall be maintained according to the requirements of 40 *CFR* § 761.30, except that historical spills, as defined in Section 2 (C), shall be maintained in accordance with Section 2 (C). The previous demolition of the buildings associated with the C-340-A Powder Building, C-340-B Metals Building, C-340-C Slag Building, C-410 Feed Plant, C-410-A Hydrogen Holder (slab only), C-410-C HF Neutralization Building, C-410-F HF Storage Building (north), C-410-G HF Storage Building (center), C-410-H HF Storage (south), C-410-I Ash Receiver Shelter, C-410-J HF Storage Building (east), C-411 Cell Maintenance Building, and C-420 Green Salt Building did result in PCB-contaminated slabs. The slabs were double washed and rinsed, and two contrasting colors of epoxy fixative were applied. The documentation of these actions can be found in the documents DOE/LX/07-1286&D1, *Removal Action Report for the C-340 Metals Reduction Plant at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, for C-340 and DOE/LX/07-2182&D1, *Removal Action Report for the C-410 Complex Infrastructure Decontamination and Decommissioning Project at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, for the C-410 complex. During CY 2020 routine inspections/radiological surveys of the C-340 and C-410 slabs, loose fixative was discovered. Maintenance activities for the C-340 and C-410 slabs commenced in CY 2021 and the efforts continued into CY 2022 with the removal of loose fixative and resealing of the slabs. The resealing efforts began in CY 2021 and continued into CY 2022. The areas were resealed with two contrasting colors of epoxy fixative. The loose fixative material was containerized as radioactively-contaminated PCB waste following removal. No discharges or releases of PCB-contaminated material were detected or reported for the associated slabs for CY 2023.

### 2.2.3 Processing of PCB-Contaminated Demolition Material for On-Site Waste Disposal

The TSCA CA requires the processing of any PCB-contaminated demolition material before disposal in the on-site waste disposal facility (OSWDF) must be in compliance with 40 *CFR* § 761.20(c). The requirements of this section are not applicable at this time because the OSWDF has not been constructed.

## 2.3 OTHER WASTES

### 2.3.1 Nonradioactive PCBs and PCB Items

The TSCA CA requires an annual progress update on the storage and disposal of nonradioactive PCBs and PCB items. At the Paducah facility, PCB waste generated on-site is assumed to contain a radioactive component. After radiological characterization for disposal, Paducah nonradiological PCB waste is stored in accordance with the requirements of the TSCA CA, Attachment I, Section 2(D), Storage; 40 *CFR* § 761.65, *Storage for Disposal*; and associated concurrences. There were no nonradioactive PCBs or PCB items in the inventory, as of December 31, 2023. Nonradioactively contaminated PCBs and PCB items are shipped for disposal to commercial facilities. During CY 2023, no non-radioactive PCBs or PCB items were shipped off-site for disposal.

### 2.3.2 Co-contaminated, Radioactive PCBs and PCB Items

The TSCA CA requires an annual progress update on the storage and disposal of co-contaminated, radioactive PCB and PCB items. At the Paducah facility, all PCB waste generated on-site is assumed to contain a radioactive component. Pending radiological characterization for disposal, Paducah radiological PCB waste is stored in accordance with the requirements of the TSCA CA, Attachment I, Section 2(D), Storage; 40 *CFR* § 761.65, *Storage for Disposal*; and associated concurrences. The inventory, as of December 31, 2023, of radiologically contaminated PCBs and PCB items is reflected in Table 2. Radioactive PCBs and PCB items stored in TSCA-compliant storage areas may be stored for more than one year prior to disposal, pursuant to 40 *CFR* § 761.65(a)(1).

Radioactively contaminated PCBs and PCB items are shipped for disposal to DOE-owned facilities, Nuclear Regulatory Commission-licensed facilities, or facilities that have received authorized limits approval from DOE and the facility's host state. During CY 2023, 30 co-contaminated, radioactive PCBs or PCB items with a net weight of approximately 6,906 kg were shipped off-site for disposal on 17 hazardous waste manifests.

During CY 2023, no Certificates of Disposal (CDs) were received for nonradioactive PCBs or PCB waste items. Also, during CY 2023, 15 CDs were received for PCB/radioactive waste that had been disposed of, representing a total net weight of 6,474 kg of radiologically contaminated PCBs and PCB items. The PCB waste off-site shipping and disposal information for this reporting period is shown in Table 3. Waste generated as a result of site cleanup and operations is included in this report, including Comprehensive, Environmental Response, Compensation, and Liability Act waste, which is provided for information only and is intended to show progress toward the removal of PCBs at the Paducah facility.

## Table 2. PCB Waste Inventory as of December 31, 2023

| Waste ID | Description | Earliest Date Removed from Service | Physical | Gross Wt (lbs) | Gross Wt (kg) | Net Wt (lbs) | Net Wt (kg) | Gross Vol (ft3) | Current Facility | Source | Waste Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 122193-11[a] | EPOXY PAINT CHIPS, VEGETATION AND PPE | 3/29/2023 | SOLID (S) | 878 | 398 | 112 | 51 | 90 | C-333 | C-410 | TSCA Mixed (TM) |
| 130116-02 | PCB SOLIDS WITH CADMIUM, CHROMIUM, AND LEAD | 5/9/2023 | S | 150 | 68 | 90 | 41 | 7.4 | C-333 | C-333 | RCRA/TSCA Mixed (RTM) |
| 122623-13 | PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE | 5/11/2023 | S | 130 | 59 | 80 | 36 | 7.4 | C-752-A | Proc Bldgs | TM |
| 122622-04 | VENTILATION DUCT OIL AND WATER | 7/21/2023 | LIQUID (L) | 197 | 89 | 157 | 71 | 7.4 | C-337 | Proc Bldgs | TM |
| 130225-01 | PCB LIGHT BALLAST/CAPACITORS/TRANSFORMERS/ETC | 7/25/2023 | S | 201 | 91 | 171 | 78 | 4 | C-757 | PlantWide | TM |
| 130116-03 | PCB SOLIDS WITH CADMIUM, CHROMIUM, AND LEAD | 7/31/2023 | S | 84 | 38 | 24 | 11 | 7.4 | C-333 | C-333 | RTM |
| 122621-02[a] | LUBE OIL/PCB RINSATE COLLECTED FROM SITE GLASSES FROM TRANSFORMER DRAINING | 8/24/2023 | L | 223 | 101 | 183 | 83 | 7.4 | C-337 | C-337 | RTM |
| 130228-04 | MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED. | 9/14/2023 | S | 15,700 | 7,121 | 7,740 | 3,511 | 1173 | C-752-A | C-300 | RTM |
| 130228-03 | MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED. | 9/15/2023 | S | 10,660 | 4,835 | 3,160 | 1,433 | 686 | C-752-A | C-300 | RTM |
| 130228-25 | MATERIALS GENERATED FROM REMOVAL OF HVAC SYSTEM. METAL, INSULATION, PLASTIC, CONCRETE, ASBESTOS. PCB GASKET, LEAD AND PCB CONTAMINATED. | 10/2/2023 | S | 13,700 | 6,214 | 6,200 | 2,812 | 686 | C-752-A | C-300 | RTM |
| 122623-14 | PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE | 10/12/2023 | S | 140 | 64 | 80 | 36 | 7.4 | C-752-A | Proc Bldgs | TM |
| 122623-15[a] | PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE | 11/13/2023 | S | 86 | 39 | 26 | 12 | 7.4 | C-337 | Proc Bldgs | TM |
| **12** | **Total Containers** | | **Totals[b]** | **42,148** | **19,117** | **18,023** | **8,175** | **2,691** | | | |

[a] Indicates a collection container that remains in use unless otherwise noted. Weights are estimated.

[b] Totals may vary due to rounding.

## Table 3. Waste Shipped Off-Site and/or Disposed of January 1, 2023, through December 31, 2023

| Waste ID | Description | Gross Wt (lbs) | Gross Wt (kgs) | Net Wt (lbs) | Net Wt (kgs) | Earliest Date Removed from Service | Date Shipped | Manifest | Shipment No. | Disposal Location | Disposal Method | Disposal Date | CoD Rec'd |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 122622-02 | VENTILATION DUCT OIL AND WATER | 460 | 209 | 404 | 183 | 2/21/2022 | 1/12/2023 | 02368220JJK | 9750-04-0014 | Energy*Solutions*, Clive, UT | Landfill | 11/13/2023 | 12/14/2023 |
| 122623-08 | PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE | 179 | 81 | 123 | 56 | 8/2/2022 | 1/12/2023 | 023682199JJK | 7340-08-0027 | Energy*Solutions*, Clive, UT | Landfill | 3/31/2023 | 4/26/2023 |
| 122623-09 | PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE | 187 | 85 | 127 | 58 | 9/27/2022 | 1/12/2023 | 023682199JJK | 7340-08-0027 | Energy*Solutions*, Clive, UT | Landfill | 3/31/2023 | 4/26/2023 |
| 122667-01 | POTHEAD WITH ELECTRICAL CABLE. POTHEAD CONTAINS PETROLATUM. CABLE IS PAPER AND LEAD INSULATED. PAPER IS IMPREGNATED WITH OIL | 1,258 | 571 | 465 | 211 | 3/7/2022 | 2/7/2023 | 023682223JJK | 9750-01-0098 | Energy*Solutions*, Clive, UT | Landfill | 3/27/2023 | 4/4/2023 |
| 130083-01 | CAPACITORS FROM CHARGERS IN BATTERY ROOMS AND ASSOCIATED BCS | 11 | 5 | 2 | 1 | 9/7/2022 | 2/7/2023 | 023682222JJK | 9750-90-0003 | Energy*Solutions*, Clive, UT | Landfill | 3/16/2023 | 4/4/2023 |
| 122668-01 | PCB LIGHT BALLASTS/CAPACITORS/TRANSFORMERS/ETC. | 183 | 83 | 153 | 69 | 3/10/2022 | 2/23/2023 | 023682259JJK | 9750-90-0004 | Energy*Solutions*, Clive, UT | Landfill | 3/16/2023 | 4/4/2023 |
| 122623-10 | PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE | 216 | 98 | 156 | 71 | 10/7/2022 | 3/23/2023 | 023682277JJK | 7340-08-0028 | Energy*Solutions*, Clive, UT | Landfill | 5/22/2023 | 6/26/2023 |
| 122193-10 | EPOXY PAINT CHIPS, VEGETATION AND PPE | 1,612 | 731 | 820 | 372 | 6/24/2022 | 4/27/2023 | 023682312JJK | 7340-08-0029 | Energy*Solutions*, Clive, UT | Landfill | 5/22/2023 | 6/26/2023 |
| 122235-05 | EPOXY PAINT CHIPS, VEGETATION, PPE, BERYLLIUM | 1,000 | 454 | 211 | 96 | 5/18/2022 | 4/27/2023 | 023682312JJK | 7340-08-0029 | Energy*Solutions*, Clive, UT | Landfill | 5/22/2023 | 6/26/2023 |
| 122623-12 | PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE | 84 | 38 | 34 | 15 | 2/20/2023 | 4/27/2023 | 023682312JJK | 7340-08-0029 | Energy*Solutions*, Clive, UT | Landfill | 5/22/2023 | 6/26/2023 |
| 130162-01 | PCB LIGHT BALLASTS AND/OR CAPACITORS | 12 | 5 | 7 | 3 | 2/16/2023 | 6/20/2023 | 9750-90-0005 | 9750-90-0005 | Energy*Solutions*, Clive, UT | Landfill | 7/31/2023 | 8/2/2023 |
| 130163-01 | PCB CONTAMINATED ASBESTOS | 106 | 48 | 56 | 25 | 2/20/2023 | 6/20/2023 | 023682338JJK | 9750-01-0101 | Energy*Solutions*, Clive, UT | Landfill | 6/29/2023 | 7/24/2023 |
| 122621-01 | LUBE OIL/PCB RINSEATES COLLECTED FROM SITE GLASSES FROM TRANSFORMER DRAINING | 208 | 94 | 152 | 69 | 8/23/2022 | 8/17/2023 | 023682410JJK | 9750-09-0036 | Energy*Solutions*, Clive, UT | | | |
| 122623-11 | PCB SPILL CLEANUP DEBRIS/ENCAPSULATION WASTE | 154 | 70 | 104 | 47 | 11/17/2022 | 8/17/2023 | 023682405JJK | 7340-08-0031 | Energy*Solutions*, Clive, UT | Landfill | 9/7/2023 | 9/20/2023 |
| 130116-01 | PCB SOLIDS WITH CADMIUM, CHROMIUM, AND LEAD | 176 | 80 | 126 | 57 | 2/8/2023 | 8/17/2023 | 023682407JJK | 9750-01-0102 | Energy*Solutions*, Clive, UT | Landfill | 9/25/2023 | 10/3/2023 |
| 130123-01 | PCB LIGHT BALLASTS, CAPACITORS, TRANSFORMERS, ETC. | 252 | 114 | 222 | 101 | 10/27/2022 | 8/17/2023 | 02368218JJK | 9750-90-0006 | Energy*Solutions*, Clive, UT | Landfill | 9/25/2023 | 10/3/2023 |
| 130188-01 | PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS | 1,282 | 582 | 514 | 233 | 7/14/2023 | 9/18/2023 | 023682433JJK | 7340-08-0032 | Energy*Solutions*, Clive, UT | Landfill | 9/28/2023 | 10/3/2023 |
| 130188-02 | PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS | 1,282 | 582 | 514 | 233 | 7/21/2023 | 9/18/2023 | 023682433JJK | 7340-08-0032 | Energy*Solutions*, Clive, UT | Landfill | 9/28/2023 | 10/3/2023 |
| 130188-03 | PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS | 910 | 413 | 142 | 64 | 7/21/2023 | 9/18/2023 | 023682433JJK | 7340-08-0032 | Energy*Solutions*, Clive, UT | Landfill | 9/28/2023 | 10/3/2023 |

## Table 3. Waste Shipped Off-Site and/or Disposed of January 1, 2023, through December 31, 2023 (Continued)

| Waste ID | Description | Gross Wt (lbs) | Gross Wt (kgs) | Net Wt (lbs) | Net Wt (kgs) | Earliest Date Removed from Service | Date Shipped | Manifest | Shipment No | Disposal Location | Disposal Method | Disposal Date | CoD Rec'd |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 130188-04 | PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS | 1,154 | 523 | 388 | 176 | 7/22/2023 | 9/18/2023 | 023682433JJK | 7340-08-0032 | Energy*Solutions*, Clive, UT | Landfill | 9/28/2023 | 10/3/2023 |
| 130188-05 | PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS | 2,256 | 1,023 | 1,468 | 666 | 7/22/2023 | 9/18/2023 | 023682433JJK | 7340-08-0032 | Energy*Solutions*, Clive, UT | Landfill | 9/28/2023 | 10/3/2023 |
| 130188-06 | PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS | 1,306 | 592 | 540 | 245 | 7/22/2023 | 9/18/2023 | 023682433JJK | 7340-08-0032 | Energy*Solutions*, Clive, UT | Landfill | 9/28/2023 | 10/3/2023 |
| 130188-07 | PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS | 2,160 | 980 | 1,166 | 529 | 8/4/2023 | 9/18/2023 | 023682433JJK | 7340-08-0032 | Energy*Solutions*, Clive, UT | Landfill | 9/28/2023 | 10/3/2023 |
| 130188-17 | PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS | 926 | 420 | 926 | 420 | 8/11/2023 | 9/18/2023 | 023682433JJK | 7340-08-0032 | Energy*Solutions*, Clive, UT | Landfill | 9/28/2023 | 10/3/2023 |
| 130188-19 | PCB CONTAMINATED MISCELLANEOUS EQUIPMENT AND CONTAINERS | 10,400 | 4,717 | 5,420 | 2,458 | 8/8/2023 | 9/18/2023 | 023682433JJK | 7340-08-0032 | Energy*Solutions*, Clive, UT | Landfill | 9/28/2023 | 10/3/2023 |
| 122622-03 | VENTILATION DUCT OIL AND WATER | 412 | 187 | 372 | 169 | 11/17/2022 | 11/2/2023 | 023682469JJK | 9750-04-0015 | Energy*Solutions*, Clive, UT | | | |
| 130099-01 | PCB LIQUIDS WITH CADMIUM, CHROMIUM, AND LEAD | 436 | 198 | 396 | 180 | 12/28/2022 | 11/2/2023 | 023682464JJK | 9750-09-0037 | Energy*Solutions*, Clive, UT | | | |
| 130135-01 | LLW PCB OIL FROM C-337 | 68 | 31 | 35 | 16 | 12/12/2022 | 11/2/2023 | 023682469JJK | 9750-04-0015 | Energy*Solutions*, Clive, UT | | | |
| 130233-01 | PCB CONTAMINATED MISCELLANEOUS EQUIPMENT CONTAINER CIRCUIT BOARDS, CAPACITORS, ETC. | 158 | 72 | 108 | 49 | 7/21/2023 | 11/2/2023 | 023682462JJK | 9750-01-0103 | Energy*Solutions*, Clive, UT | Landfill | 12/14/2023 | 12/28/2023 |
| 130233-02 | PCB CONTAMINATED MISCELLANEOUS EQUIPMENT CONTAINER CIRCUIT BOARDS, CAPACITORS, ETC | 126 | 57 | 76 | 34 | 7/21/2023 | 11/2/2023 | 023682462JJK | 9750-01-0103 | Energy*Solutions*, Clive, UT | Landfill | 12/14/2023 | 12/28/2023 |
| **30** | **Total Weight Shipped for CY 2023*** | **28,974** | **13,142** | **15,227** | **6,907** | | | | | | | | |
| 130060-01 | GLASS APPARATUS CONTAINING ELEMENTAL MERCURY/AMALGUM FROM LAB | 38 | 17 | 1 | 1 | 8/2/2022 | 8/16/2022 | 023531984JJK | 023531984JJK | Energy*Solutions*, Clive, UT | Disposal | 8/16/2023 | 9/11/2023 |
| **13** | **Total Weight for Certificate of Disposal Received CY 2023*** | **27,888** | **12,650** | **14,273** | **6,474** | | | | | | | | |

*Totals may vary due to rounding.