

**Probo.CI**

CEC\_HOSPITAL — no.3530210

**Partner for Change - 2018: Waste****Introduction**

Practice Greenhealth recommends **comprehensive waste tracking** as a starting point for any healthcare institution looking to improve its environmental footprint. Understanding the breakdown of both cost and weight for different waste categories can be one of the easiest strategies to identify areas of opportunity and low-hanging fruit. Beyond waste data, understanding how waste can be prevented, or shifted from a more environmentally-intensive (and expensive) waste stream to a less environmentally intensive waste stream (e.g., from **regulated medical waste** into **recycling**) is key to truly reducing the facility's waste footprint.

**Baseline Year:** The facility's baseline year is generally the **first year the facility started tracking waste data**. Some facilities use the first year they apply for an award. If 2017 is your first year of waste tracking, please enter data in both the **Baseline Year** and the **Current Year** column (leaving the **Previous Year column blank**), and it will become your baseline for next year's award data.

**1. Baseline Year:**


The waste data in this section requires **12 consecutive months of waste data**. While energy data must be tracked in a calendar year, waste data can utilize a fiscal year if necessary. We ask that you please use the **same 12 months consistently** each year you apply, so we can compare year-to-year totals effectively.

**Solid Waste**

Please indicate the facility's **Solid Waste** totals in Table A below (enter a numerical response). You are required to complete the **Current Year** column at a minimum.

If you are using a vendor that uses a **flat fee for integrated waste removal** (e.g., RMW and **solid waste** go out at the same price per lb), please enter your tonnage but do not include your cost data in Table A below, as it will skew the data set.

**Non-RCRA Pharmaceutical Waste** data will be captured in the category in which it is being treated/disposed. If the facility is segregating and collecting Non-RCRA Pharmaceutical Waste and disposing of it as solid waste (e.g. sent to a municipal waste incinerator), please enter Non-RCRA Pharm Waste data in **Table A. Solid Waste**. If Non-RCRA Pharm Waste is disposed of as **regulated medical waste** (e.g. sent to an RMW incinerator), please enter Non-RCRA Pharm Waste data in **Table C. Regulated Medical Waste**

DO NOT enter Non-RCRA Pharm Waste in both Tables A and C. This will double count this waste stream.

Table A. **Solid Waste**

(Please do not use commas or \$ signs.)

Solid Waste	TONS per Year Baseline	TONS per Year Previous	TONS per Year Current	Annual Costs Baseline	Annual Costs Previous	Annual Costs Current
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<b>Solid Waste</b>	<u>2.</u> <input type="text"/>	<u>3.</u> <input type="text"/>	<u>4.</u> <input type="text"/>	<u>5.</u> <input type="text"/>	<u>6.</u> <input type="text"/>	<u>7.</u> <input type="text"/>
<b>Non-RCRA Pharmaceutical Waste (MSW)</b>	<u>8.</u> <input type="text"/>	<u>9.</u> <input type="text"/>	<u>10.</u> <input type="text"/>	<u>11.</u> <input type="text"/>	<u>12.</u> <input type="text"/>	<u>13.</u> <input type="text"/>
<b>Total Solid Waste</b>	<u>14.</u> 0	<u>15.</u> 0	<u>16.</u> 0	<u>17.</u> 0	<u>18.</u> 0	<u>19.</u> 0

**20.** How does your facility dispose of its regular (non-pharmaceutical) **solid waste**?

- Landfill  
 Municipal Waste Incinerator  
 Waste-to-Energy Incinerator  
 Other

**20.a** Please describe other method to dispose of **solid waste**:

## Recycling

**21.** How did the **recycling** program fare financially in 2017? (Please select one)

Select an option... ▾

**22.** Please explain finances of **recycling** program:

**23.** Does the facility recycle clinical/**medical plastics**?

- Yes  
 No

**23.a** Which clinical plastics are being recycled by the facility (select all that apply):

- Irrigation bottles  
 Skin prep solution bottles  
 Trays  
 Overwraps  
 Rigid inserts  
 Blue wrap  
 Tyvek  
 Basins  
 Urinals/Bedpans  
 Other

**23.a.a** Please describe any other plastic items being recycled:

Please indicate tonnage and cost for the selected items above in **Appendix A**.

**24.** Does the facility recycle **precious metals** from clinical devices?

- Yes
- No

**24.a** Please indicate which metals from which devices:

**24.b** Please indicate vendor **recycling precious metals**:

Please indicate tonnage and cost for the selected items above in **Appendix A**.

### Recycling Profile

Please enter the facility's individual **Recycling** Totals in **Appendix A**. The data will self-populate in the **Current Year** column in Table B.

Please enter baseline and previous year **recycling** tonnage and annual costs in Table B below. If this year is your first year of tracking **recycling** data, go ahead and enter the same number as **Current Year** in the **Baseline Year** column, leaving the **Previous Year column blank**. Do not enter zeros. A negative number in cost field denotes a revenue (or rebates from **recycling**). Reuse and diversion are not included in this table but are credited elsewhere in the application. Construction & Demolition (C&D) waste **recycling** is tracked in the **Green Building**, Table C.

**PLEASE NOTE: The tonnage and costs for Current Year will be autopopulated from Appendix A.**

**Table B. Recycling**

Recycling Streams	TONS per Year Baseline	TONS per Year Previous	TONS per Year Current	Annual Costs Baseline	Annual Costs Previous	Annual Costs Current
<b>Recycling</b> (Current Year data will be entered from Appendix A)	<b>25.</b> <input type="text"/>	<b>26.</b> <input type="text"/>	<b>27.</b> <input type="text" value="0"/>	<b>28.</b> <input type="text"/>	<b>29.</b> <input type="text"/>	<b>30.</b> <input type="text" value="0"/>
<b>Universal Waste</b> (Current Year data will be entered from Appendix A)	<b>31.</b> <input type="text"/>	<b>32.</b> <input type="text"/>	<b>33.</b> <input type="text" value="0"/>	<b>34.</b> <input type="text"/>	<b>35.</b> <input type="text"/>	<b>36.</b> <input type="text" value="0"/>
<b>Recycling Total</b>	<b>37.</b> <input type="text" value="0"/>	<b>38.</b> <input type="text" value="0"/>	<b>39.</b> <input type="text" value="0"/>	<b>40.</b> <input type="text" value="0"/>	<b>41.</b> <input type="text" value="0"/>	<b>42.</b> <input type="text" value="0"/>

**43.** This is the value of total annual **recycling** costs that will be used in calculating total waste cost percentages in Table K at the bottom of this page. Costs will be used unchanged, but a revenue will be changed to zero.

**44.** Is your facility participating in the **Recycling Goal** of the **Less Waste Challenge** of the Healthier Hospitals program?

- Yes  
 No

**44.a** Please describe any progress toward the Healthier Hospitals Less Waste **Recycling** Goal:

## Waste Reduction Activities

**45.** Has the facility developed an **internal reuse** program or strategy for office supplies, clinical products and equipment, and furniture before making these materials available for external donation?

- Yes  
 No

**45.a** Please describe reuse program for office supplies, clinical products and equipment, and furniture:

**46.** Does your facility participate in or require through contracting a **Product Take Back Program** for any products after use?

- Yes  
 No

**46.a** Please describe participation in Product Take Back Program:

**47.** Has the facility developed an equipment and supplies **donation** program (domestic or abroad) for materials, equipment and furniture that can no longer be used internally? The Catholic Health Association provides an excellent discussion and resources on **Medical Surplus Recovery**.

- Yes  
 No

**47.a** Please indicate which items are routinely donated:

- Unexpired/unopened consumable clinical supplies  
 Expired/opened consumable clinical supplies  
 Capital medical equipment  
 Electronics  
 Furniture  
 Linens  
 Other supplies

**47.b** Does organization ensure all donated medical supplies, equipment and electronics are **actually needed**, such as working with an organization that ensures the **needs of developing countries are met** with the donated items?

- Yes

No

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**47.b.a** Please outline your quality assurance process:

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**47.b.b** Please attach policy (if applicable):

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**47.b.c** Please indicate donation vendor:

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**48.** Has the facility implemented a **paper reduction** program?

- Yes  
 No

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**48.a** Please indicate which activities the institution has pursued to gain those reductions. Please select all that apply.

- Reduced network printers  
 Made double-sided printing the default on printers/copiers  
 Reduced number of automatically printed reports  
 Implemented EMR/EHR system  
 Other

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**48.a.a** Please describe other paper reduction efforts:

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**49.** How many **cases of white copy paper** did the facility purchase in 2017?

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**50.** This was the number of cases of **white copy paper** purchased in 2016:

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**51.** This is the facility's **Percent Change in Paper Use from Previous Year** (based on the number of cases of white copy paper purchased):

A positive number indicates a decrease in organizational paper use; a negative number indicates an increase in organizational paper use.

## Less Food Waste

It is estimated that **10% to 15%** of an average hospital's waste is comprised of food waste. The US EPA and the USDA announced a partnership, calling on businesses to commit to food waste reduction by 50% by 2030. As a result, Practice Greenhealth developed the **Less Food to Landfill** goal intended to mobilize the health care community around the opportunity to reduce food waste, reduce methane gas associated with food breakdown in landfills, and feed hungry people.

Applicants may answer the questions in this section on the Food page and relevant answers will be copied to the Waste page. (If no data has yet been provided on the Food page, the response box on Waste will show a 0). Because food waste is a major component of the total waste stream, the few key questions and data points below have been included on both application pages--to ensure Environmental Services and Food Services are connected around the management and reduction of this important waste stream.

**52.** Is the facility working on the **reduction of food waste**?

Yes

**53.** Does the facility have a **food waste reduction plan/policy** that is implemented and tracked?

Yes

Based on the Food Waste Prevention table on the Food page, this is how the facility is performing on the prevention of food waste and reduction from baseline.

### Food Waste Prevention Metrics

Food Waste Prevention Metrics	
Pounds of Food Waste per Meal Served (Current year)	<b>54.</b> 0
Percent Reduction in Food Waste from Baseline Year	<b>55.</b> 0
Percent Reduction in Food Waste from Previous Year	<b>56.</b> 0

**57.** Has the facility undertaken any efforts to **divert food waste** from the landfill or incinerator?

Yes

### Food Waste Diversion from Landfill

Food Waste Diversion Metrics	
This is the facility's tonnage for food waste compost:	<b>58.</b> 0 <small>Mixed compost includes food waste, paper products, biodegradable food serviceware, etc.</small>
This is the facility's tonnage for digestion:	<b>59.</b> 0
This is the facility's tonnage for food donation:	<b>60.</b> 

	0
This is the facility's tonnage for animal feed:	<b>61.</b> 0
This is the facility's tonnage for "other" diversion from landfill:	<b>62.</b> 0

**Food Waste Diversion from Landfill Metrics**

Total Tons of Food Waste Diverted from Landfill	Pounds of Food Waste Diverted from Landfill per Meal Served	Percent of Total Food Waste Diverted from Landfill
<b>63.</b> 0	<b>64.</b> 0	<b>65.</b> 0

**Regulated Medical Waste**

Please indicate the facility's **Regulated Medical Waste** totals in **Table C** below (enter a numerical response). If you cannot break out one of the waste types, please leave it blank and use the comments box to indicate which waste stream it is combined with; do not enter zero. If you are using a vendor that uses a **flat fee for integrated waste removal** (e.g., RMW and **solid waste** go out at the same price per lb), please enter your **tonnage**, but **DO NOT** include your cost data in **Table C** below, as it will skew the data set. All applicants must fill out **Current Year** tonnage and costs. If this year is your baseline year (e.g. first year of collecting accurate RMW data), please enter your **Current Year** totals in the **Baseline Year** column as well, but leave the **Previous Year** column **blank**.

**RMW Treated Onsite or Offsite:**

Please include **all general RMW** in this number, including any RMW that is treated onsite and landfilled. If the facility normally combines treated RMW with its **solid waste**, please estimate weight or contact Awards Technical Assistance for guidance at [awards@practicegreenhealth](mailto:awards@practicegreenhealth) or 888-378-2259.

**Incinerated RMW**

Please include any RMW that is incinerated, such as pathology waste, trace chemotherapeutic waste, or any waste that is segregated and removed by a licensed hauler for **medical waste incineration**. This category may be very small.

**Sharps**

Sharps waste is typically tracked as a separate waste stream by **regulated medical waste** haulers and should be entered in the Sharps category. If sharps are incinerated, they can be included in the **Incinerated RMW** category, but it should be noted in the comments field that the waste streams are combined. If the facility uses a reusable sharps container service, make sure the sharps disposal data does not include the **weight of the containers**.

**Non-RCRA Pharmaceutical Waste**

Non-RCRA pharmaceutical waste does not meet the EPA or state agencies' definition of hazardous waste but may still be dangerous to human health and the environment. Many health care institutions choose to use a vendor to manage this waste stream as incinerate-only to protect health. This waste stream is typically managed in a blue or white pharm waste container.

This waste stream can be incinerated as **municipal solid waste** (if so please track in **Table A**) or as **RMW** (please track in **Table C**). Please do not enter non-RCRA pharmaceutical waste in both tables **or it will be double-counted**.

**All Non-RCRA pharmaceutical waste data entered in either Table A or Table C will be autopopulated in Table E. Pharmaceutical Waste below.**

**Table C. Regulated Medical Waste**

Regulated Medical	TONS per Year	TONS per Year	TONS per Year	Annual Costs	Annual Costs	Annual Costs
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Waste Stream	Baseline	Previous	Current	Baseline	Previous	Current
RMW (treated onsite or offsite)	66. <input type="text"/>	67. <input type="text"/>	68. <input type="text"/>	69. <input type="text"/>	70. <input type="text"/>	71. <input type="text"/>
Sharps	72. <input type="text"/>	73. <input type="text"/>	74. <input type="text"/>	75. <input type="text"/>	76. <input type="text"/>	77. <input type="text"/>
Non-RCRA Pharmaceutical Waste	78. <input type="text"/>	79. <input type="text"/>	80. <input type="text"/>	81. <input type="text"/>	82. <input type="text"/>	83. <input type="text"/>
Incinerated RMW	84. <input type="text"/>	85. <input type="text"/>	86. <input type="text"/>	87. <input type="text"/>	88. <input type="text"/>	89. <input type="text"/>
RMW total waste	90. <input type="text" value="0"/>	91. <input type="text" value="0"/>	92. <input type="text" value="0"/>	93. <input type="text" value="0"/>	94. <input type="text" value="0"/>	95. <input type="text" value="0"/>

**RMW Waste Metrics Table**

<p><b>96.</b> Staffed Beds:</p> <input type="text" value="0"/>	<p><b>97.</b> Operating Rooms:</p> <input type="text" value="0"/>	<p><b>98.</b> Patient Days:</p> <input type="text" value="0"/>
<p><b>99.</b> Pounds of RMW per Staffed Bed per Day (The 2017 median value was 1.78; data generally ranged from 0.6 to 4.3)</p> <input type="text" value="0"/>	<p><b>100.</b> Tons of RMW per OR (The 2017 median value was 6.1; data generally ranged from 2.4 to 14.8)</p> <input type="text" value="0"/>	<p><b>101.</b> Pounds of RMW per Patient Day (The 2017 median value was 2.95, values generally ranged from 1.5 to 6.9)</p> <input type="text" value="0"/>

For hospitals and systems that use Adjusted Patient Day (APD), the 2017 median for **Pounds of RMW per Adjusted Patient Day** was 1.36 (values generally ranged from 0.65 to 3.0). 2017 refers to the year the data was submitted but reflects 2016 calendar/fiscal year data. The correlation for APD in 2017 was very high, indicating that this is a good predictor of RMW generation this year.

**102.** Does the facility incinerate any portion of its **regulated medical waste** (RMW)?

- Yes
- No

**102.a** Please indicate which medical waste streams are incinerated:(Please select all that apply)

- General RMW
- Path/Chemo
- Sharps
- Non-RCRA Pharm
- Other

**103.** Does the facility disinfect/treat any portion of its RMW using **onsite technology**?

- Yes
- No

Please **do not include** fluid management systems that empty to the sanitary sewer in this question.

**103.a** Which of the following **technologies** does the facility use to treat RMW onsite? (Select one).

- Autoclave
- Rotoclave
- Chemical disinfection

- Incineration  
 Other

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**103.b** If the facility treats its RMW onsite, this treated waste is disposed to:

- Landfill  
 Municipal waste incineration  
 Waste-to-energy incineration  
 Other

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**103.b.a** Please describe how treated waste is disposed of:

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**103.c** How does the facility **track its RMW volume or weight** if it treats RMW onsite?

- The waste is weighed manually.  
 The equipment weighs the material and the facility tracks this weight.  
 It is estimated and tracked.  
 The treated RMW is considered part of solid waste volume.  
 The facility does not track this weight.  
 Other

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**103.c.a** Please describe other method to track waste:

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**103.d** Does the facility track the cost of treating RMW in-house?

- Yes  
 No

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**103.d.a** The facility includes these costs of treating RMW in-house

- Power/utilities  
 Water/sewer  
 Staff time  
 Other

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**103.d.a.a** Please describe tracking of costs of treating RMW in-house:

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## RMW Reduction/Minimization Strategies

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**104.** Has the facility **eliminated** the standard use of red bag waste (RMW) containers **in regular patient rooms**?

- Yes

No

**105.** Has the facility implemented a **Reusable Sharps Container** program?

Yes

**105.a** How many **tons of plastic** were diverted from the landfill (or other disposal) as a result of the reusable sharps container program?

**106.** Has your facility implemented a single-use device (SUD) reprocessing program with an FDA-approved third party reprocessor?

Yes

No

A successful reprocessing program includes many patient care areas as well as the **operating room**. To simplify the application process, Practice Greenhealth is collecting all data pertaining to SUD reprocessing on the **Greening the OR section** of the Partner for Change application. Please enter all data pertaining to your facility's reprocessing collection and purchasing program - inside and outside the **operating room** - on that page.

**107.** Is your facility participating in the **Regulated Medical Waste Reduction Goal** of the **Less Waste Challenge** of the Healthier Hospitals program?

Yes

No

**107.a** Please describe any progress toward the Healthier Hospitals Less Waste RMW Reduction Goal:

### Pharmaceutical Waste

#### Non-RCRA Pharmaceutical Waste

Segregating non-RCRA regulated pharmaceutical waste for incineration is currently considered a best management approach. For facilities using a pharmaceutical waste vendor (not Reverse Distribution), this is typically the blue or white container. **Non-RCRA Pharmaceutical Waste** data is entered in **Table A** (if disposed of through municipal waste incineration) or **Table C** (if disposed of through RMW incineration). Data from Tables A or C will autopopulate **Table E. Pharmaceutical Waste** below. Pharmacy, Environmental Services, EH&S or your pharmaceutical waste vendor are good resources to identify the waste pharmaceutical tonnage.

#### RCRA-Regulated Hazardous Pharmaceutical Waste

RCRA hazardous pharmaceutical waste is comprised of waste that is either listed as hazardous or meets the characteristics of hazardous waste in **EPA's Resource Conservation and Recovery Act (RCRA)** or via state agency. This waste stream should not be confused with red bag or "biohazardous" waste. For facilities using a pharmaceutical waste vendor (not Reverse Distribution), this is typically the black container.

Please enter the facility's RCRA Hazardous Pharmaceutical Waste totals in **tons** in Table E below. Entering RCRA Hazardous Pharm Waste data in this table will auto-populate Table G. Hazardous Waste below. **Recently 34 drugs** have been added to the **2016 NIOSH list of hazardous drugs**. Please see the CDC's 2016 publication **NIOSH List of Antineoplastic and Other Hazardous Drugs in Healthcare Settings, 2016**.

All applicants must enter **Current Year** tonnage and costs. If this is the first year for which you have accurate pharmaceutical waste data, please enter your **Current Year** totals in the **Baseline Year** column as well (but leave the **Previous Year** column **blank**). If the facility does not break out a waste type, leave that space blank and identify any combined waste streams in the comments box. **Do not enter zeros.**

Enter data in tons. Pounds can be easily converted to tons by dividing poundage by 2000.

**Table E. Pharmaceutical Waste**

Pharmaceutical Waste Stream	TONS per Year Baseline	TONS per Year Previous	TONS per Year Current	Annual Costs Baseline	Annual Costs Previous	Annual Costs Current
RCRA-Hazardous Pharmaceutical Waste	<u>108.</u> <input type="text"/>	<u>109.</u> <input type="text"/>	<u>110.</u> <input type="text"/>	<u>111.</u> <input type="text"/>	<u>112.</u> <input type="text"/>	<u>113.</u> <input type="text"/>
Non-RCRA Pharmaceutical Waste (MSW)	<u>114.</u> <input type="text" value="0"/>	<u>115.</u> <input type="text" value="0"/>	<u>116.</u> <input type="text" value="0"/>	<u>117.</u> <input type="text" value="0"/>	<u>118.</u> <input type="text" value="0"/>	<u>119.</u> <input type="text" value="0"/>
Non-RCRA Pharmaceutical Waste (RMW)	<u>120.</u> <input type="text" value="0"/>	<u>121.</u> <input type="text" value="0"/>	<u>122.</u> <input type="text" value="0"/>	<u>123.</u> <input type="text" value="0"/>	<u>124.</u> <input type="text" value="0"/>	<u>125.</u> <input type="text" value="0"/>
Total Pharmaceutical Waste	<u>126.</u> <input type="text" value="0"/>	<u>127.</u> <input type="text" value="0"/>	<u>128.</u> <input type="text" value="0"/>	<u>129.</u> <input type="text" value="0"/>	<u>130.</u> <input type="text" value="0"/>	<u>131.</u> <input type="text" value="0"/>

**Table F. Pharmaceutical Waste Metrics** (These numbers are only a rough guideline)

Total Pounds of Pharmaceutical Waste per Patient Day	Total Pounds of Pharmaceutical Waste per Adjusted Patient Day	Total Pounds of Pharmaceutical Waste per Staffed Bed/Day
<u>132.</u> (The 2017 median value was 0.21 pounds per patient day; values generally ranged from 0.01 to 0.95) <input type="text" value="0"/>	<u>133.</u> (The 2017 median value was 0.10 pounds/APD; values generally ranged from 0.01 to 0.50) <input type="text" value="0"/>	<u>134.</u> (The 2017 median value was 0.12 pounds per bed per day; values generally ranged from 0.01 to 0.62) <input type="text" value="0"/>

**135.** If the facility has not provided data for Non-RCRA Pharmaceutical Waste, how is the facility currently handling waste pharmaceuticals that are not regulated as Hazardous Waste (such as antidepressants, statins, antibiotics, etc.): Please select all that apply.

- We treat all pharm waste as RCRA-hazardous to better protect human health and the environment
- Pharm waste is being disposed of in red bags or sharps containers
- Pharm waste is going down the drain
- Pharm waste is going into clear trash bags (solid waste)
- Other
- I don't know

**135.a** Please explain other methods for disposing of non-RCRA pharmaceuticals:

**136.** Has the facility taken any measures to **reduce the generation** of pharmaceutical waste in 2017?

- Yes
- No

**136.a** Please describe measures taken to reduce pharmaceutical waste:

**137.** What **mechanism(s)** is the facility currently using for the **disposal of controlled substances**? Select all that apply.

- Wasting to drain
- Containment with reverse distribution
- Other

**137.a** Please describe other method of rendering controlled substances irretrievable:

**Hazardous Waste**

Please enter the facility's Hazardous Waste total in tons in **Table G. Hazardous Waste** below. All applicants must enter **Current Year** tonnage and costs. If this is the facility's first year of tracking comprehensive waste data, please enter the hazardous waste tonnage from **Current Year** into the **Baseline Year** column as well (but leave the **Previous Year** column blank).

**Do not enter zeros for any year. All health care facilities generate some amount of hazardous waste.**

**Converting to Tons**

If your hazardous waste is in gallons or a mix of gallons and pounds, please convert to tons. It is most accurate to convert gallons to tons using the specific gravity of the waste liquid. However, if this is unavailable, convert gallons to tons using a general conversion factor of 8.35 lbs=1 gallon (e.g., there are approximately 8.35 pounds in a gallon of liquid). Pounds can be easily converted to tons by dividing poundage by 2000.

**RCRA-Regulated Hazardous Waste**

Please note that your facility's hazardous waste tonnage **should not be zero**.

**Hazardous waste includes** waste solvents, lab fixatives and stains, spill clean-up residue, lab packs, refrigerants, or any "listed" or "characteristic waste" per RCRA regulations. Check with your Laboratory Manager, Pharmacy Director, Safety Director, Hazardous Materials Coordinator, hazardous waste hauler, Accounts Payable, or review waste removal manifests to identify hazardous waste removal documentation that will provide you with the data needed for this section. **Examples of hazardous waste** from the clinical laboratory can be found at: **Clinical Laboratory Waste**

**Table G. Hazardous Waste Table**

Hazardous Waste Stream	TONS per Year Baseline	TONS per Year Previous	TONS per Year Current	Annual Costs Baseline	Annual Costs Previous	Annual Costs Current
RCRA-Regulated Hazardous Waste	<b>138.</b> <input type="text"/>	<b>139.</b> <input type="text"/>	<b>140.</b> <input type="text"/>	<b>141.</b> <input type="text"/>	<b>142.</b> <input type="text"/>	<b>143.</b> <input type="text"/>
RCRA-Regulated Hazardous Pharmaceutical Waste	<b>144.</b> <input type="text" value="0"/>	<b>145.</b> <input type="text" value="0"/>	<b>146.</b> <input type="text" value="0"/>	<b>147.</b> <input type="text" value="0"/>	<b>148.</b> <input type="text" value="0"/>	<b>149.</b> <input type="text" value="0"/>
Total Hazardous Waste	<b>150.</b> <input type="text" value="0"/>	<b>151.</b> <input type="text" value="0"/>	<b>152.</b> <input type="text" value="0"/>	<b>153.</b> <input type="text" value="0"/>	<b>154.</b> <input type="text" value="0"/>	<b>155.</b> <input type="text" value="0"/>

**Hazardous Waste Minimization Activities**

**156.** Has the facility established a contract with a **certified electronics waste/recycling vendor** that is **certified to e-Stewards** (or subcontractors that use e-Stewards certified vendors) for legal and environmentally responsible electronics (or e-waste) management and **recycling**?

Yes

**156.a** Please provide name of electronic waste **recycling** vendor:

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Please enter tonnage and cost for **electronics recycling** in **Appendix A**

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**157.** Does the facility use **digital x-rays**--which reduce the use and disposal costs of fixer solutions?

- Yes  
 No

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**157.a** Does the facility **recycle silver** (from x-ray films) in Radiology or wherever films are processed?

- Yes  
 No

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Please enter tonnage and cost for silver **recycling** in **Appendix A**

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**158.** How does the facility handle its fluorescent lamps?

Other ▾

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**158.a** Please describe process to handle fluorescent lamps:

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**Important Note:** The act of crushing fluorescent lamps releases mercury vapor into the atmosphere and is not recommended by the EPA or Practice Greenhealth. Crushed lamps must be removed as hazardous waste by a licensed hazardous waste hauler and cannot be counted toward **recycling** or **Universal Waste** totals. Learn more at [EPA's Mercury Lamp Drum Top Crusher Study \(2006\)](#).

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**159.** Does the facility recycle batteries?

- Yes  
 No

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**159.a** Please indicate which of the following types of batteries you recycle:

- Ni-Cd  
 Lead-acid  
 Lithium ion  
 Alkaline  
 Mercuric oxide  
 Ni-MH  
 Other

Please indicate tonnage and cost for the selected batteries in **Appendix A**.

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**160.** Does your facility have an **onsite laboratory**?

- Yes  
 No

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**160.a** Has your facility done any work to green its laboratory?

- Yes

No

**160.a.a** Please describe green laboratory work in 2017:

Please only describe green laboratory work if completed in 2017--unless this is the first year your facility has filled out an award application.

**160.b** Does the facility **recycle, reprocess or distill solvents, alcohols or other chemicals** from the lab (such as xylene, alcohols or formalin)?

Yes  
 No

Please enter **solvent distillation** data in Table H. In this table, please enter savings as a positive number. If you do not have one of the numbers, leave it blank, do not enter zero.

**Table H. Solvent Distillation**

Solvent	Gallons distilled annually	Annual savings from avoided virgin solvent purchase	Annual savings from reduced disposal costs
Xylene	<b>160.b.a</b> <div style="border: 1px solid black; height: 20px;"></div>	<b>160.b.b</b> <div style="border: 1px solid black; height: 20px;"></div>	<b>160.b.c</b> <div style="border: 1px solid black; height: 20px;"></div>
Alcohols	<b>160.b.d</b> <div style="border: 1px solid black; height: 20px;"></div>	<b>160.b.e</b> <div style="border: 1px solid black; height: 20px;"></div>	<b>160.b.f</b> <div style="border: 1px solid black; height: 20px;"></div>
Formalin	<b>160.b.g</b> <div style="border: 1px solid black; height: 20px;"></div>	<b>160.b.h</b> <div style="border: 1px solid black; height: 20px;"></div>	<b>160.b.i</b> <div style="border: 1px solid black; height: 20px;"></div>
Other	<b>160.b.j</b> <div style="border: 1px solid black; height: 20px;"></div>	<b>160.b.k</b> <div style="border: 1px solid black; height: 20px;"></div>	<b>160.b.l</b> <div style="border: 1px solid black; height: 20px;"></div>
Total gallons and costs	<b>160.b.m</b> 0	<b>160.b.n</b> 0	<b>160.b.o</b> 0

**Waste Summary**

The following tonnages and costs have been **automatically calculated** based on the information that was provided in Tables A, B,C, and G. If the numbers do not look accurate, check the tonnage and costs entered in those Tables.

**Table I. Total Waste Tonnage and Cost** (comprised of **Solid Waste, Recycling**, RMW and Hazardous Waste)

	Total Tonnage (Baseline)	Total Tonnage (Previous)	Total Tonnage (Current)	Total Cost (Baseline)	Total Cost (Previous)	Total Cost (Current)
<b>Total Waste</b>	<b>161.</b> <div style="border: 1px solid black; height: 20px; text-align: center;">0</div>	<b>162.</b> <div style="border: 1px solid black; height: 20px; text-align: center;">0</div>	<b>163.</b> <div style="border: 1px solid black; height: 20px; text-align: center;">0</div>	<b>164.</b> <div style="border: 1px solid black; height: 20px; text-align: center;">0</div>	<b>165.</b> <div style="border: 1px solid black; height: 20px; text-align: center;">0</div>	<b>166.</b> <div style="border: 1px solid black; height: 20px; text-align: center;">0</div>

**Table J. Total Waste Metrics**

Based on the information above, the facility's <b>total pounds of waste per patient day</b> is:	Based on the information above, the facility's <b>total pounds of waste per adjusted patient day</b> is:	Based on the information above, the facility's <b>total tons of waste per OR</b> is:
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**167.**  
(2017 median value was 44.3 pounds per patient day; values ranged from 29 to 99)

**168.**  
(The 2017 median value was 21.1 pounds per APD; values generally ranged from 13 to 37)

**169.**  
(2017 median value was 101 tons per OR; values generally ranged from 54 to 235)

**Table K. Total Waste Percentages**

	% Waste (Baseline)	% Waste (Previous)	% Waste (Current)	% Cost (Baseline)	% Cost (Previous)	% Cost (Current)
<b>Solid Waste [from Table A]</b>	<b>170.</b> <input type="text" value="0"/>	<b>171.</b> <input type="text" value="0"/>	<b>172.</b> <input type="text" value="0"/>	<b>173.</b> <input type="text" value="0"/>	<b>174.</b> <input type="text" value="0"/>	<b>175.</b> <input type="text" value="0"/>
<b>Recycling [from Table B]</b>	<b>176.</b> <input type="text" value="0"/>	<b>177.</b> <input type="text" value="0"/>	<b>178.</b> <input type="text" value="0"/>	<b>179.</b> <input type="text" value="0"/>	<b>180.</b> <input type="text" value="0"/>	<b>181.</b> <input type="text" value="0"/>
<b>RMW [from Table C]</b>	<b>182.</b> <input type="text" value="0"/>	<b>183.</b> <input type="text" value="0"/>	<b>184.</b> <input type="text" value="0"/>	<b>185.</b> <input type="text" value="0"/>	<b>186.</b> <input type="text" value="0"/>	<b>187.</b> <input type="text" value="0"/>
<b>Hazardous Waste [from Table F]</b>	<b>188.</b> <input type="text" value="0"/>	<b>189.</b> <input type="text" value="0"/>	<b>190.</b> <input type="text" value="0"/>	<b>191.</b> <input type="text" value="0"/>	<b>192.</b> <input type="text" value="0"/>	<b>193.</b> <input type="text" value="0"/>

**Waste Successes**

**Share your stories!** Practice Greenhealth has condensed the waste success stories into one section.

Please use the space below to describe your **most successful and/or innovative waste minimization, reduction, recycling, medical waste or hazardous waste management program(s)** in 2017. Practice Greenhealth not only scores these questions but also uses them to **identify great case studies** to share with the sector. Environmental benefit and cost-savings data appreciated. Please use complete sentences.

**194.** Waste Success 1:

**195.** Please attach any additional documentation (optional) for Waste Success 1:

**196.** Waste Success 2:

**197.** Please attach any additional documentation (optional) for Waste Success 2:

**198.** Waste Success 3:

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**199.** Please attach any additional documentation (optional) for Waste Success 3:

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**200.** Waste Success 4:

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**201.** Please attach any additional documentation (optional) for Waste Success 4:

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**202.** Waste Success 5:

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**203.** Please attach any additional documentation (optional) for Waste Success 5:

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**204.** Additional documentation (optional):

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