"fedramp-test-2024-questions-lara_sutherland: jenkins-awards.practicegreenhealth.org - Create Sheets Pull Request for Probo-870"

Water

Introduction

Water is a critical resource for community health and well-being. Because of the artificially low pricing of water in most of the country, it can be challenging to get water efficiency and conservation prioritized. However, water efficiency and conservation remains a vital part of a strong environmental stewardship program. Tracking and measuring the amount of direct water used is the first step a hospital should take to begin its water management and minimization program.

Water Use Demographics

Learn more about Practice Greenhealth's **Water Goal**. See the **Water Toolkit** for more information and guidance on water reduction strategies.

1.* Please enter the facility's **Baseline Year**:

Select an option... ⌄

Baseline Year is the year the facility began actively tracking water use and reduction--and can be no more than **five (5) years ago**.

Water Usage

Please indicate the facility's total **water use** in Table A below. Please **include irrigation water from the local utility**, if applicable, in these totals.

You are required to complete the **Current Year** column at a minimum.

New in 2024: If you already have water data in the platform for baseline or previous year, it will sync automatically once you select a baseline year above. If this is your first year of tracking water data, select the most recent year in the baseline year dropdown, and leave the previous year column blank. After you've filled out the current year column, the data from current year should then appear in the baseline year column as well. Do not enter zero. Please be sure to select units.

Do not include irrigation water from greywater, reclaimed water, retention ponds, or wells in Table A.

For **Gross Floor Area**, please enter the same value for all three years if the facility's **Gross Floor Area** has not changed.

PGH uses **Energy Star Portfolio Manager's** definition of **Gross Floor Area**. If the facility uses Portfolio Manager, you can cut and paste the value for **Gross Floor Area** into the application.

Cleanable Square Feet: Gross square footage refers to all measurable space contained within the walls and under the roof of any individual facility. Cleanable square footage only counts the actual space that the Environmental Services (EVS) staff clean. Consequently, it excludes locations such as electrical or maintenance closets, inner space between walls, courtyards or patios and parking garages. The engineering or facilities department may be a good place to acquire this information, as well as contracts for housekeeping services if your facility outsources EVS. To calculate **Cleanable Square Feet** when a measured value is not available, the facility can estimate that **Cleanable Square Feet** = Gross Square Feet minus walls (1.5% of gross square feet) minus square footage of non-cleanable areas (i.e., electrical closets, mechanical rooms, storage rooms).

Table A. Total Water Consumption

	Baseline Year	Units	Previous Year	Units	Current Year	Units
Gross Floor Area	**2.***	Square Feet	**3.**	Square Feet	**4.***	Square Feet
Cleanable Area	**5.***	Square Feet	**6.***	Square Feet	**7.***	Square Feet
Annual Water Consumption	**8.***	**9.*** Select an op ⌄	**10.**	**11.** Select an op ⌄	**12.***	**13.*** Select an op ⌄
Annual Water Cost, including sewer	**14.**	Dollars	**15.**	Dollars	**16.***	Dollars

Annual Water Gallons	**17.** 0	Gallons	**18.** 0	Gallons	**19.** 0	Gallons
Gallons per square foot	**20.** 0	Gallons / square foot	**21.** 0	Gallons / square foot	**22.** 0	Gallons / square foot

Learn more about calculating **cleanable square feet**.

Table B. Potable Irrigation Water

Table B is measuring the amount of potable water used by the facility for irrigation of grounds and landscaping. Please only enter potable irrigation water from the water authority or district water provider. (Note: Potable irrigation water should be included above in the total in Table A.) **DO NOT INCLUDE IRRIGATION WATER FROM GREYWATER, RECLAIMED WATER, RETENTION PONDS, OR WELL WATER.**

Please estimate irrigation water if irrigation water is not separately metered. Annual irrigation gallons can be estimated by taking the number of sprinkler heads x the flow capacity per head x watering duration x frequency. For example (20 heads) x (2.5 gallons per minute) x (60 minutes per day) x (100 days of watering/ year)= 300,000 gallons annually).

Irrigated area is collected in square feet. There are 43,560 square feet in an acre. To convert acres to square feet, multiply acres by 43,560.

If the facility does not irrigate, or irrigates only with greywater, retention ponds, or well water, enter zero under irrigation gallons.

	Baseline Year	Units	Previous Year	Units	Current Year	Units
Actual or estimated potable water irrigation gallons	**23.**	Gallons	**24.**	Gallons	**25.**	Gallons
Irrigated Area Square Feet	**26.**	Square Feet	**27.**	Square Feet	**28.***	Square Feet
Gallons of Water Use per Irrigated Square Foot	**29.** 0	Gallons per square feet	**30.** 0	Gallons per square feet	**31.** 0	Gallons per square feet
Indoor water gallons (total gallons minus irrigation gallons)	**32.** 0	Gallons	**33.** 0	Gallons	**34.** 0	Gallons

35.* Does your facility irrigate any landscape areas? (Please answer yes if any water was entered in Table B for current year.)

- ● Yes
- ○ No

35.a* Was irrigation water included as part of overall water consumption in Table A above (Total Water Consumption)?

- ○ Yes
- ● No

35.a.a Please add irrigation water into totals in Table A if you can. Otherwise, please explain barriers to providing this data:

35.b* Does your facility **separately meter irrigation water** versus other water used for the facility?

- ○ Yes
- ○ No

35.c What water is used to irrigate?

- ☐ Potable water (from water authority)
- ☐ Greywater or reclaimed water
- ☐ Well water
- ☐ Other

Given the data provided in Table A, your facility's normalized **water use metrics** for Total Water Use are presented in Table B1 below.

Table B2 highlights the facility's normalized **water use reduction metrics**.

For total gallons per square foot, median values are around 42; values generally range from 15 to 100.
For total gallons per cleanable square foot, media values are around 52, values generally range from 15 to 150.
For total gallons per FTE, median values are around 16,000; values generally range from 5,400 to 40,000.

Table B1. Total Water Use Metrics (Current Year)

Total Gallons per Square Foot	Total Gallons per Cleanable Square Foot	Total Gallons per FTE
36. 0	**37.** 0	**38.** 0

Table B2. Water Use Reduction Metrics

Percent Total Water Use Reduction from Baseline Year	Percent Total Water Use Reduction from Previous Year
39.* 0	**40.*** 0
This is the percent change between total gallons per square foot in Current Year and Baseline Year. A negative number indicates an increase in consumption.	This is the percent change between total gallons per square foot in Current Year and Previous Year. A negative number indicates an increase in consumption.

Based on the data above, your facility's normalized **water use metrics** for Indoor Water Use are presented in Table C. below.

For indoor gallons per square foot, median values are around 40 gal/ sq foot; values generally range from 20 to 90.

For indoor gallons per cleanable square foot, median values are around 50, values generally range from 20 to 110.

For indoor gallons per FTE, median values are around 13,500 gal/FTE; values generally range from 5,000 to 40,000.

Table C. Indoor Water Use Metrics

Indoor Gallons per Square Foot	Indoor Gallons per Cleanable Square Foot	Indoor Gallons per FTE
41. 0	**42.** 0	**43.** 0

44.* Is the facility actively working to reduce water use in alignment with Practice Greenhealth's **Water Goal**?

○ Yes
○ No

45.* Has the facility set **measurable goals** for the reduction of water use?

● Yes
○ No

    45.a* What is the facility's water reduction goal?

Water Conservation

46.* Does the facility **submeter** any departments and/or individual pieces of equipment?

● Yes
○ No

    46.a* Please indicate which of the following departments or equipment are submetered for water use:

    ☐ Boilers
    ☐ Chillers
    ☐ Compressed air systems
    ☐ Cooling towers
    ☐ Dialysis
    ☐ Irrigation
    ☐ Laundry
    ☐ Operating rooms
    ☐ Therapy pools
    ☑ Other

        46.a.a* Please describe other submetered equipment or areas:

47.* Does the facility have a **written plan** to **reduce water use** over time?

● Yes

○ No

47.a*   Please attach written plan to reduce water use:

48.*   Has the facility conducted a **water audit**?

○ Yes
○ No

49.*   Does the facility **benchmark water usage**?

● Yes
○ No

49.a*   What **tool or company** does the organization utilize to benchmark water usage?

50.*   Has the facility purchased any of the following **US EPA WaterSense-labeled** devices and equipment? (Please select all that apply.)

☐ Bathroom sink faucets/accessories
☐ Flushing urinals
☐ Flushometer valve toilets
☐ Irrigation controllers
☐ Pre-rinse spray valves
☐ Showerheads
☐ Spray sprinkler bodies
☐ Toilets

51.*   Has the facility implemented any of the following strategies or technologies for the **reuse of non-potable water**?

☐ Boiler blow-down collection for reuse
☐ Condensate collection for reuse
☐ Gray water reuse system
☐ Rainwater harvesting system
☐ Use of non-potable water for laundry
☑ Other

51.a*   Please describe any other efforts to reuse non-potable water:

52.*   Does the facility use any alternative landscaping methods that **reduce the need for irrigation**?

● Yes
○ No

52.a*   If yes, please describe alternative landscaping for irrigation reduction:

52.b*   Include **water savings** realized from alternative landscaping methods in 2023 (in gallons):

Please list the biggest **water-saving projects** implemented in 2023 in Table E. A minimum of three projects is suggested if possible.

Consider using the following guidance from Energy Star Portfolio Manager to calculate water savings projects: **Water Toolkit**

Note: Your overall water use reduction is calculated above through percent water reduction from baseline, where you will get 'credit' for older water reduction projects. This table is ONLY for **projects completed in the past year.**

Table E: Water Reduction Projects

Project Description	Category	Water Savings (in gallons/year)	Annual Savings in USD $ (real or calculated)
53.*	**54.*** Select an option... ⌄	**55.***	**56.***
57.*	**58.***	**59.***	**60.***

	Select an option... ▼		
61.*	**62.***	**63.***	**64.***
	Select an option... ▼		
65.*	**66.***	**67.***	**68.***
	Select an option... ▼		
69.*	**70.***	**71.***	**72.***
	Select an option... ▼		
Total		**73.** 0	**74.** 0

Other Water Program Successes

Please describe any additional **projects, savings, successes or innovations** in the water program or projects at your facility that you would like to share in the space provided below. Please feel free to provide commentary and/or attach a file.

75.* Water Success 1: Please describe or attach any additional documentation.

76.* Optional Attachment:

77.* Water Success 2: Please describe or attach any additional documentation.

78.* Optional Attachment: