



LEED 2009 for Existing Buildings: Operations & Maintenance

WE CREDIT 1: WATER PERFORMANCE MEASUREMENT

All fields and uploads are required unless otherwise noted.

ALL OPTIONS

This static sample form has been modified for offline access. All sections of the form are visible. Sample forms are for reference only.

Performance period start:

Performance period end:

Select one of the following:

- ☐ **Option 1.** Whole building metering
- ☐ **Option 2.** Whole building and subsystem metering

WHOLE BUILDING METERING

- ☐ The project building has a permanently-installed water meter or collection of water meters that measures the total potable water use for the entire building and associated grounds.

Total number of water meters: meters

- ☐ This number includes any subsystem water meters installed at the project building or associated grounds.

Of the total above :

Meters owned by a third party entity (utility, government, or similar): meters

Meters owned by the project building owner, tenant or property manager: meters

Total measured water use for the entire building and associated grounds during the performance period: kGal

Estimated annual water use for the entire building and associated grounds: kGal

Note: The estimated annual water use value is extrapolated based on the total measured water use during the performance period. However, due mainly to seasonal variations, the project team may wish to do additional calculations to provide a more accurate estimated annual water use.

For each meter (and submeter, if the project team is pursuing WE Credit 1, Option 2), describe the following:

- Meter type & installed location
- Portions of water systems measured
- Meter data recording process including intervals and schedule

- ☐ Operations staff has performed continuous logging of meter readings, either through automatic electronic data logging or through manual recordings, at an interval of no less than 1 week or less for all meters.
- ☐ The project team has compiled monthly and annual summaries of the total water consumption for the project building and associated grounds (and any subsystem meters contributing to WE Credit 1, Option 2) during the performance period. (If the performance period is less than one year, the annual number may be projected.)

Select one of the following options:

- ☐ **Upload WEc1-2.** Provide water use summary report(s) from the ENERGY STAR Portfolio Manager tool.
- ☐ **Upload WEc1-3.** Provide a table generated from an internal data tracking program documenting the summaries declared above.
- ☐ Complete the Table. Total Water Consumption.

Table WEc1-1. Total Water Consumption

Please complete the table below with data for whole building metering only. If the building includes a collection of water meters for the entire building, please indicate which subsystems or parts of the building are covered by each meter under the Water User Type column. The start/end dates should encompass the entire performance period.

Unique Meter ID	Water Use Type	Start Date	End Date	Water Use Volume (kGal)	Water Cost
Total					

End date cannot be earlier than Start date. Please revise .

SUBSYSTEM METERING

To document compliance with WE Credit 1, Option 2, permanently installed metering must be in place for at least one of the following subsystems:

- ☐ Irrigation subsystem metering
- ☐ Indoor plumbing fixtures & fittings subsystem metering
- ☐ Cooling towers subsystem metering
- ☐ Domestic hot water subsystem metering
- ☐ Process water subsystem metering

IRRIGATION SUBSYSTEM METERING

Total irrigated landscaped area: sf

Total metered landscaped irrigation area: sf

Irrigation area meter coverage (must be at least 80%): %

Table WEc1-2. Irrigation Subsystem Meter Data

Unique Irrigation Meter ID	Potable or Nonpotable	Meter Coverage (% of Total Irrigation)	Water Use During Performance Period (kGal)
	<input type="checkbox"/> Potable		
	<input type="checkbox"/> Nonpotable		
Total irrigation meter coverage (must be at least 80%) (%)			
Total estimated irrigation water use during performance period (kGal)			
Total estimated annual irrigation water use (kGal)			

INDOOR PLUMBING FIXTURES & FITTINGS SUBSYSTEM METERING

Select one of the following:

- ☐ **Fixture count:** Coverage is determined based on the total number of indoor fixtures and fittings declared in WE Prerequisite 1.
- ☐ **Deduction method:** Coverage is determined based on water use for the entire project building and associated grounds.

FIXTURE COUNT

Total number of indoor fixtures and fittings:

Total number of metered indoor fixtures & fittings:

Indoor fixtures and fittings meter coverage (must be at least 80%): %

Table WEc1-3. Indoor Fixtures & Fittings Subsystem Meter Data

Unique Fixtures and Fittings Meter ID	Potable or Nonpotable	Meter Coverage (% of Total Fixtures and Fittings)	Water Use During Performance Period (kGal)
	<input type="checkbox"/> Potable		
	<input type="checkbox"/> Nonpotable		
Total fixtures and fittings meter coverage (must be at least 80%) (%)			
Total estimated fixtures and fittings water use during performance period (kGal)			
Total estimated annual fixtures and fittings water use (kGal)			

DEDUCTION METHOD

Total measured water use for the entire building and associated grounds during the performance period:

 kGal

Total measured water use of all other subsystems during the performance period (exclude indoor fixture and fittings):

 kGal

Calculated water use of indoor fixtures and fittings:

 kGal
COOLING TOWERS SUBSYSTEM METERING

Total number of cooling towers (within LEED project boundary):

 towers

Total number of cooling towers (within LEED project boundary) that meter replacement water use:

 towers

Cooling tower meter coverage (must be 100%):

 %
Table WEc1-4. Cooling Tower Subsystem Meter Data

Unique Cooling Tower Meter ID	Potable or Nonpotable	Meter Coverage (% of Total Cooling Towers)	Water Use During Performance Period (kGal)
	<input type="checkbox"/> Potable		
	<input type="checkbox"/> Nonpotable		
Total cooling tower meter coverage (must be 100%) (%)			
Total cooling tower potable water use during performance period (kGal)			
Total cooling tower Nonpotable water use during performance period (kGal)			

Total cooling tower water use during performance period (kGal)

Total estimated annual cooling tower water use (kGal)

DOMESTIC HOT WATER SUBSYSTEM METERING

Note: For storage heaters, use the first-hour rating to determine capacity in gallons per hour (GPH). For on-demand (tankless) heaters, convert the rated capacity in gallons per minute (gpm) to an hourly capacity.

Total heating capacity of all domestic water heating units (nameplate rated): gph

Heating capacity of metered domestic water heating units (nameplate rated): gph

Domestic hot water meter coverage (must be at least 80%): %

Table WEc1-5. Domestic Hot Water Subsystem Meter Data

Unique Domestic Hot Water Meter ID	Potable or Nonpotable	Meter Coverage (% of Total Domestic Hot Water)	Water Use During Performance Period (kGal)
	<input type="checkbox"/> Potable		
	<input type="checkbox"/> Nonpotable		
Total domestic hot water meter coverage (must be at least 80%) (%)			
Total estimated domestic hot water use during performance period (kGal)			
Total estimated annual domestic hot water use (kGal)			

PROCESS WATER SUBSYSTEM METERING

Total expected daily water consumption for process-type end uses: kGal

Total daily metered water consumption for process-type end uses: kGal

Process water meter coverage (must be at least 80%): %

Table WEc1-6. Process Water Subsystem Meter Data

Unique Process Water Meter ID	Potable or Nonpotable	Meter Coverage (% of Total Process Water)	Water Use During Performance Period (kGal)
	<input type="checkbox"/> Potable		
	<input type="checkbox"/> Nonpotable		
Total process water meter coverage (must be at least 80%) (%)			
Total estimated process water use during performance period (kGal)			
Total estimated annual process water use (kGal)			

ADDITIONAL DETAILS

- ☐ Special circumstances preclude documentation of credit compliance with the submittal requirements outlined in this form.

SPECIAL CIRCUMSTANCES

Describe the circumstances limiting the project team's ability to provide the submittals required in this form. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

Upload WEc1-SC. Provide any additional documentation that supports the claim to special circumstances. (Optional)

- ☐ The project team is using an alternative compliance approach in lieu of standard submittal paths.

ALTERNATIVE COMPLIANCE PATH

Describe the alternative compliance path used by the project team. Include justification that this path meets the credit intent and requirements. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

Upload WEc1-ACP. Provide any additional documents that support the alternative compliance path approach. (Optional)

- ☐ The project team is using the above alternative compliance path to document exemplary performance of WE Credit 1.

SUMMARY

WE Credit 1: Water Performance Measurement Points Documented:

WE Credit 1: Water Performance Measurement Exemplary Performance Documented:

- ☐ The project team reserves one point in the Innovation in Operations credit category for exemplary performance in WE credit 1.