

Central Park Commerce Center Estimated Water Usage
DRAFT

Phase

Warehouse - Phase 1 (1 x 1.2 million sqft)(toilets, sinks, etc)

Warehouse - Phase 2 (3 x 232,500 sqft)(toilets, sinks, etc)

Warehouse - Phase 3 (1 x 233,604 sqft & 1 x 215,460 sqft)
(toilets, sinks, etc)

Warehouse Subtotal

Data Center - Phase 1 (2 x 306,000 sqft / 150 MW)

Continuous Water Usage (toilets, sinks, etc.)
Closed Loop Cooling System

Data Center - Phase 2 (1 x 212,000sqft / 100 MW)

Continuous Water Usage (toilets, sinks, etc.)
Closed Loop Cooling System

Data Center - Phase 3 (1 x 212,000sqft / 100 MW)

Continuous Water Usage (toilets, sinks, etc.)
Closed Loop Cooling System

Data Center - Phase 4 (1 x 212,000sqft / 100 MW)

Continuous Water Usage (toilets, sinks, etc.)
Closed Loop Cooling System

Data Center Subtotal

Total Daily Water Usage

Total Cooling System Water Usage

Average Daily Water Usage - Arden Community (WGI Estimate)
Average Daily Water Usage - Arden Community (PBC Water Director Estimate)

Containment system will be incorporated in system for potential leaks
Any flushing of closed loop system or empty for repairs will be contained and disposed

Water Usage Unit

43,188 GPD

38,211 GPD

12,390 GPD

93,789 GPD

2542 GPD
2.024 MG
1.01

848 GPD
0.65 MG

848 GPD
0.65 MG

848 GPD
0.65 MG

5086 GPD
9.42 GPD per persc

98,875 GPD
3.97 MG

852,000 GPD
500,000 GPD

sed of properly (not in canals, storm dr

Notes

160 gpm
720 minutes per day
115200 gpd

Per the Department of Energy water use is 8 – 12 gallons per day, 8 gallons per day water-efficient fixtures, 12 gallons per day for higher water consuming fixtures

Estimating Methods for Determining End-Use Water Consumption |
Department of Energy

Jacobs assumed water efficient fixtures, guessed at population that's probably low during the day but overstated at night, estimated the use based on that population, and water efficient fixtures, and checked it against the DOE guidance. Jacobs came in between 9 and 10 gallons per person per day so it seemed reasonable.

<https://www.energy.gov>

1,271 gallons per day per 150 MW data center based on 45 people per shift and 3 shifts per day

2542

One-time fill, no refill needed, only minimal top-up.

848 gallons per day per 100 MW data center based on 30 people per shift and 3 shifts day

848

One-time fill, no refill needed, only minimal top-up.

848 gallons per day per 100 MW data center based on 30 people per shift and 3 shifts day

848

One-time fill, no refill needed, only minimal top-up.

848 gallons per day per 100 MW data center based on 30 people per shift
and 3 shifts day
One-time fill, no refill needed, only minimal top-up.

848

540

on

Per the Water Distril

11 gpd per person

15 gpd per person

10 gpd per person

rains, or wastewater system)

gov/cmei/femp/estimating-methods-determining-end-use-water-consumption

gallons per day

gallons per day

gallons per day

gallons per day

people at full buildout

Contributions Handbook by Larry W. Mays

5940 gpd

8100 gpd

5400 gpd