

New York State Department of Environmental Conservation

Division of Water, Bureau of Water Resources Management
625 Broadway, Albany, NY 12233-3508

Water Withdrawal Reporting Form

Due by March 31st each year

Prior to filling out this form, please read the instructions on the last page

This form not for Agricultural Facilities

Section 1 of 6 - Basic Information

Facility Name	Cayuga Operating Company, LLC	Facility Street Address	228 Cayuga Drive	Reporting Year	2016
City	Lansing	Zip	14882	Town	Lansing
				County	Tompkins
Contact Name	John Marabella	Email	jmarabella@heorotpower.com	Telephone	(607) 533-7913

Source Name	Cayuga Lake	Source Type	L	Well Depth		Max Rate	245	Units	MGD
Source Name		Source Type		Well Depth		Max Rate		Units	
Source Name		Source Type		Well Depth		Max Rate		Units	
Source Name		Source Type		Well Depth		Max Rate		Units	
Source Name		Source Type		Well Depth		Max Rate		Units	
Source Name		Source Type		Well Depth		Max Rate		Units	
Source Name		Source Type		Well Depth		Max Rate		Units	

137.86	MGD	243.36	MGD	245	MGD
Average Day Withdrawal	Units	Maximum Day Withdrawal	Units	Maximum System Capacity or NYSDEC Permitted Withdrawal	Units

Submitted by	John Marabella	Title	Environmental Director	Date	3/13/2017
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Water Withdrawal Category

(Check One)

☒ Agricultural - Must use form at <http://www.dec.ny.gov/lands/86904.html>

☐ Bottled / Bulk Water

☐ Commercial

☐ Environmental

☐ Industrial

☐ Institutional

☐ Mine Dewatering

☐ Oil / Gas Production

Power Production:

☒ Fossil Fuel

☐ Nuclear

☐ Other Pwr

☐ Public Water Supply

Recreational:

☐ Golf Course

☐ Snow Making

☐ Other Rec

☐ Other Category

Water Withdrawal Reporting Form

Section 2 of 6 - Water Use

Calculation Method P

If multiple methods are used, choose the one that measures the greatest percentage of water in your system.
 E = Estimated M = Metered readings W = Flow through a weir
 P = Flow through a pipe or pump run times C = Pump curve calculation

Units: Must be in gallons per month	January	February	March	April	May	June
Withdrawn	3,538,860,000	3,528,720,000	4,334,850,000	3,599,700,000	3,772,080,000	4,740,450,000
Transferred / Imported / Purchased	173,615	153,827	164,436	136,055	116,744	112,978
Consumed	716,636	1,526,476	1,170,876	1,034,234	5,294,755	4,635,043
Returned	3,538,316,979	3,527,347,351	4,333,843,560	3,598,801,821	3,766,901,989	4,735,927,935
Diversions In / Out, if any						

For Transferred water or Diversions Out, use a negative (-) sign

Units: Must be in gallons per month	July	August	September	October	November	December
Withdrawn	7,280,520,000	4,897,620,000	6,365,385,000	3,589,560,000	2,889,900,000	1,918,995,000
Transferred / Imported / Purchased	107,706	99,234	96,033	107,703	111,913	115,643
Consumed	4,757,397	6,104,014	4,266,185	3,326,234	0	492,449
Returned	7,275,870,309	4,891,615,220	6,361,214,848	3,586,341,469	2,890,011,913	1,918,618,195
Diversions In / Out, if any						

Describe location of returned water

Cayuga Lake

Water Withdrawal Reporting Form
Section 3 of 6 - General Map and Interbasin Diversions

General Map Required

Please submit a map showing the location of all withdrawals and any points of return flow. Precise locations will remain confidential.

A map is not necessary if one was submitted in a previous year and no changes have occurred.

A paper copy of a USGS map or other high quality map or an electronically generated map can be faxed, mailed, or emailed. Please ensure that the map scale is sufficient to be able to see specific locations. Designate all water withdrawal locations on the map. Add markers to locate any related dams, weirs, or diversion structures. Label the name of each point.

Submit your map to DEC in one of the following ways:

- Print and mail or fax to 518 402-8290. Include cover letter identifying facility owner.
- Print, scan and email to awqrsdec@dec.ny.gov
- Copy electronically and email to awqrsdec@dec.ny.gov

Interbasin Diversions

Fill out this section only if water is being transferred between major drainage basins. To determine basin ID, go to the [DEC Major Drainage Basins map \(http://www.dec.ny.gov/lands/56800.html\)](http://www.dec.ny.gov/lands/56800.html). Then enter the basin ID by using the drop down menus under Originating and Receiving Major Drainage Basin headings below. Describe the locations of originating and receiving sites in the site description boxes (e.g. Town water intake on Route 12 at northern end of Pleasant Lake to Stony Reservoir near Bear Road).

Originating Major Drainage Basin

Basin Name

Originating Site Description

Receiving Major Drainage Basin

Basin Name

Receiving Site Description

Water Withdrawal Reporting Form

Section 4 of 6 - Water Conservation and Efficiencies

Instructions: Check one of the boxes below for EITHER Section A or Section B, as appropriate for your facility type. A list of questions pertinent to that facility type will appear. Please answer all questions.

☐ Section 4A: Public Water Supply Facilities

☒ Section 4B: Non-Public Water Supply Facilities

If the incorrect box is selected, just scroll back up a page and change selection

NOTE: All permitted water withdrawal systems must have a [Water Conservation Program](#).

Water Withdrawal Reporting Form

Section 4B: Non-Public Water Supply Facilities

(see permitting schedule [based on NYCRR Part 601.7](#))

Please answer all the questions in this section

1. Are all sources of supply including major interconnections equipped with master meters? ☐ Yes ☒ No
2. How many times were master meters read in the past year?
3. How many times were master meters calibrated in the past year?
4. Are there secondary meters located within the facility or system? ☐ Yes ☒ No
5. Identify other water conservation and efficiency measures currently used in your system (e.g. Best Management Practices such as recycling process and cooling waters, use of drip irrigation and moisture probes, utilizing storm water runoff and reclaimed wastewater or conducting facility water audits):

Regular inspections are conducted for leakage and maintenance as required. Primarily once through cooling. Withdrawal rates estimates based on pump curves. Water recycling and reuse utilized in various plant processes. Variable Speed Drives were installed on 1B and 2A Circulating Water Pumps in November 2016 as part of the 316b biological requirements contained in the facility SPDES permit for impingement and entrainment reductions.

Water Withdrawal Reporting Form
Section 5 of 6 - Outside Sales to Other Water Systems or Facilities

Instructions:

Permittees must record any sales to outside water systems or facilities. If this applies to your facility, please check the box titled, "Section 5 - Outside Sales" and fill in the information requested.

If your facility does not sell water to systems or facilities other than your own, skip the section by clicking the box for "No Outside Sales".

☐ Section 5 - Outside Sales

☒ No Outside Sales

If the incorrect box is selected, just scroll back up a page and change selection

Water Withdrawal Reporting Form

Section 6 of 6 - Forward Form To NYSDEC

Unless required fields have not been filled in, the form can now be sent to NYSDEC. To send the form electronically, simply click the green box titled, "Click here to submit by email after filling out all sections of this form". Alternatively, the form can be printed and then mailed or faxed to NYSDEC at the address found on the first page.

When the form is sent by clicking the "submit by email" button, an automatic confirmation is returned. If this does not arrive within 10 minutes, please contact awqrsdec@dec.ny.gov

Click here to submit by email
after filling out all sections
of this form

Print Form

Print Blank Form For
Handwritten Submission

Clear Entire
Form

Water Withdrawal Reporting Form

Instructions & Definitions

Agricultural Purpose	The practice of farming for crops, plants, vines and trees, and the keeping, grazing or feeding of livestock, for sale of livestock or livestock products. Agricultural facilities must use the form titled "Registration and Water Withdrawal Reporting Form for Agricultural Facilities".
Public Water Supply	Supply water to the public. Examples include: municipality, hotel, apartment, restaurant, church, campground, etc.
Source Name	Name of well or surface water body (e.g., Well No. 1, Alcove Reservoir, etc.). List all sources including unused or back-up wells.
Source Type	S = Stream or River. L = Pond or Lake. R = Reservoir. BW = Bedrock Well. UW = Unconsolidated Well (e.g., sand and gravel). SP = Spring. P = Purchased.
Well Depth	Total depth in feet below ground surface. Leave blank for surface sources.
Max Rate	Maximum potential withdrawal rate of the water source. Will be equal to or greater than Permitted Rate.
Units (Max Rate)	Gallons per minute (gpm), gallons per day (gpd), or million gallons per day (mgd). Use drop down menu.
Average Day Withdrawal	Total amount withdrawn during reporting year divided by total days withdrawn.
Maximum Day Withdrawal	Largest single day withdrawal rate of the source during the reporting year.
Maximum Sys Capacity or Permitted Withdrawal	If permit information is unknown, contact NYSDEC at awqrsdec@dec.ny.gov or 518-402-8182. Maximum system capacity is the sum of all sources simultaneously pumping at full rate.
Calculation Method	If multiple methods are used, choose the one that measures the greatest percentage of water in your system E = estimated. M = metered readings. W = flow through a weir or flume. P = flow through a pump or pump run time. C = Pump curve calculation.
Withdrawn	Amount of water removed from all sources. This includes groundwater and/or surface water.
Transferred/Imported	Amount of water brought in from or sent to another facility, includes bulk sales. For transferred water use a negative (-) sign.
Consumed	Amount of water not returned (e.g. water incorporated into a product or lost through evaporation). Public water suppliers must use metered sales to customers. Irrigation is considered "consumed water".
Returned	Amount of water discharged to a water treatment system or discharged back to the environment. Irrigation is not returned water.
Diversions In/Out	Amount of water, if any, diverted from/to another major drainage basin. For Diversions Out, use a negative (-) sign.
Location of Returned Water	State the general area where returned water is discharged. Example: "Hudson River near Poughkeepsie", "Groundwater near Auburn".
Major Drainage Basins	Report only "Major Basin" transfers. Use the internet link available on the form and enter Basin ID into the box indicated (use drop down menu). Describe the location of originating withdrawal and receiving discharge. Be as specific as possible.
Water Audit	A water audit is a thorough examination of the accuracy of water records and system control equipment to determine water system efficiency and to identify, quantify, and verify water and revenue losses. Water audits are beneficial in identifying the amount of unaccounted-for water.