HEOROT
POWER

Cayuga Operating Company, LLC
228 Cayuga Drive
Lansing, NY 14882
Tel: 607-533-7913
Fax: 607-533-8744

March 22, 2021

New York State Department of
Environmental Conservation
Division of Water
Bureau of Water Resources Management
625 Broadway
Albany, N.Y. 12233-3508

Subject: Cayuga Operating Company, LLC
Cayuga Water Withdrawal Permit ID 7-5032-00019/00024 (WWA No. 11753)
2020 Annual Water Withdrawal Report

Dear Sir or Madam:

In accordance with Item No. 6 of the referenced Water Withdrawal Permit, enclosed is the original document of the file that was submitted via email on March 22, 2021 regarding the subject 2020 Annual Water Withdrawal Report. The received confirmation email is also attached.

If you have any questions concerning the attached documents, please feel free to contact me at (607) 533-7913 ext. 2 or jmarabella@heorotpower.com

Sincerely,

John C. Marabella
Environmental Director

New York State Department of Environmental Conservation
Division of Water, Bureau of Water Resources Management
625 Broadway, Albany, NY 12233-3508

March 2020

Water Withdrawal Reporting Form

Due by **March 31st** of each year

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

Section **1** of **6** – Basic Information

Facility Name: Cayuga Operating Company, LLC | Facility Street Address: 228 Cayuga Drive | Reporting Year: 2020

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	S	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	
Source Name		Source Type		Well Depth		Max Rate		Units	

1.008	MGD	243.36	MGD	245	MGD
Average Day Withdrawal	Units	Maximum Day Withdrawal	Units	NYSDEC Permitted Withdrawal	Units

Submitted By: John Marabella | Title: Environmental Director | Date: 3/22/2021

Water Withdrawal Category (Check One)

- ☐ Agricultural
- ☐ 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	31,248,000	29,232,000	31,248,000	30,240,000	31,248,000	30,240,000
Transferred / Imported / Purchased	31,396	13,671	14,614	10,582	7,256	7,022
Consumed						
Returned	31,279,396	29,245,671	31,262,614	30,250,582	31,255,256	30,247,022
Diversions In / Out (If Applicable)						

For transferred water or diversions out use a negative (-) sign

***Units**: Must be in gallons per month	July	August	September	October	November	December
Withdrawn	31,248,000	31,248,000	30,240,000	31,248,000	30,240,000	31,248,000
Transferred / Imported / Purchased	8,937	10,513	10,174	14,739	18,098	18,701
Consumed						
Returned	31,256,937	31,258,513	30,250,174	31,262,739	30,258,098	30,266,701
Diversions In / Out (If Applicable)						

Describe location of returned water: Cayuga Lake

Water Withdrawal Reporting Form

Section **3** of **6** – Interbasin Diversions & General Maps

Interbasin Diversions

Fill out this section only if water is being transferred between major drainage basins. To determine basin name, go to the DEC Major Drainage Basins map (http://www.dec.ny.gov/lands/56800.html). Then, enter the basin names 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

General Map

*** Note** – A map is required only for Interbasin Diversions (6 NYCRR Part 601.18(e)(2)) and Agricultural Water Withdrawals (6 NYCRR Part 601.17(b)(2))

Please submit a map showing the location of all withdrawals and any points of return flow.

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, wetlands, weirs, or diversion structures. Label the name of each point.

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

- Print and mail to the address in Section 6 of this Form 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

Water Withdrawal Reporting Form

Section **4A** of **6** – Public Water Supplies

Public Water Suppliers must answer **all** questions in this section. If not a Public Water Supply – skip to Section 4B

1. Are all sources of supply including major interconnections equipped with master meters? ☐ Yes ☐ No
2. What percentage of your system is metered? _____ % Average age of meters, years: _____ Range of age of meters, years: _____
3. How often were customer meters read this past year? _____
4. Number of water service connections: _____ Total population served: _____
5. How many customer meters were recalibrated and/or replaced in the past year? _____
6. Miles of pipe in water distribution system: _____ Length of pipe replaced in the past year: _____ Units: _____
7. Miles of pipe on which leak detection was performed using sonic listening equipment: _____ Type of equipment used: _____
8. How many system-wide water audits were performed in the past year? _____
9. Residential charge per 1,000 gallons of water: $ _____
10. What percentage of the water withdrawn was not billed to customers? _____ % Lost to distribution system leakage? _____ %
11. Was information about household water saving devices and ways to reduce water use distributed to residential customers?

    ☐ Yes ☐ No
12. Was water conservation information about promoting recycling and reuse distributed to industrial and commercial customers?

    ☐ Yes ☐ No
13. Do you have lawn sprinkling time restrictions (e.g., odd/even days) during periods of peak demand? ☐ Yes ☐ No
14. Do you have a plan that takes progressive steps to further reduce outdoor water use during drought conditions with an ordinance to assure compliance? ☐ Yes ☐ No If yes, please forward a copy to the address shown in Section 1 of this form.
15. Please review your permit(s) for any specific water conservation conditions and report below on progress made in the past year:

Water Withdrawal Reporting Form

Section **4B** of **6** – Non-Public Water Supplies

Non-Public Water Suppliers must answer **all** questions in this section. For Public Water Supplies – return to Section 4A

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? 0
3. How many times were master meters calibrated in the past year? 0
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 based estimates based on pump curves. Water recycling and reuse utilized in various plant processes.

Water Withdrawal Reporting Form

Section **5** of **6** – Outside Sales to Other Water Systems or Facilities

Permittees must record any sales occurring outside of their water service area or facility and include the information requested below.
If this does not apply to your facility, please proceed to the next section.

Purchaser Name	Facility Type	Type of Sale	Contracted Amount (gallons per day)	Water Sold in Year (gallons per year)	Average Amount (gallons per day)	Maximum Amount (gallons per day)

Facility Type:
PWS = Public Water Supply; **IND** = Industrial; **COM** = Commercial; **INS** = Institutional; **O/G** = Oil or Gas; **REC** = Recreational; **BOT** = Bottled or Bulk

Type of Sale:
C = Continuous; **I** = Intermittent; **E** = Emergency

Average Amount:
To calculate Average Amount, divide total water (gallons) used in a year by number of days of purchase. Total is in gallons per day.

Maximum Amount:
Maximum Amount is the one day greatest use in the year of record, shown in gallons per day.

Water Withdrawal Reporting Form

Section **6** of **6** – Legally Responsible Party Information & Submittal Instructions

Legally Responsible Party Information:

Name of Company/Legally Responsible Party for the Facility: Cayuga Operating Company LLC

Legally Responsible Party Address: 228 Cayuga Drive Lansing, NY 14882

Printed Name of Representative*: John Marabella

Title of Representative*: Environmental Director

Certification Statement: I hereby certify that the information provided on this reporting form is true to the best of my knowledge and belief. I understand that false statements made in this reporting form are made under penalty of perjury and that they are punishable under section 210.45 of the New York State Penal Law.

Representative* Signature: 

Date: 3/22/2021

***Legally Responsible Party Representative** - The legally responsible party representative is: 1) For a corporation - the president, secretary, treasurer, or vice president of the corporation in charge of a principal business function; or other responsible corporate officer as specified in 6 NYCRR 601.22(a)(1)(i) or (ii); 2) For a partnership or sole proprietorship - general partner or proprietor, respectively; 3) For a municipality, State, Federal or other public agency - the principal executive officer or ranking elected official. For a Federal agency, the principal executive officer includes the chief executive officer of the agency; or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrators of EPA).

Submittal Instructions: When all required fields have been filled in, submit the form to NYSDEC in one of the following ways:

Mail: New York State Department of Environmental Conservation
Attn: Water Withdrawal Reporting Program
4th Floor
625 Broadway
Albany, NY 12233-3508

Email (Scan Form): awqrsdec@dec.ny.gov

Fax: (518) 402-8290

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 should complete this form for annual registration.
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). Write in or use the 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.
NYSDEC Permitted Withdrawal	If permit information is unknown, contact NYSDEC at awqrsdec@dec.ny.gov or (518) 402-8182. Note - If you do not currently have a permit, report 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 name into the box indicated. 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.