SUSQUEHANNA RIVER BASIN COMMISSION
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Groundwater Withdrawal Application Summary

Source Name: CISC Carpenter Road Well #1 **SRBC Pending No.:** 2018-092

This summary is only a portion of the application materials and is meant to provide general information about the proposed project.

1.1 Project Sponsor

Company Name:	Corning Incorporated
Mailing Address Line 1:	One Riverfront Plaza
Mailing Address Line 2:	MP-HQ-01-E35
City:	Corning
State:	NY
ZIP Code:	14831

Contact Person:

First Name:	Colleen
Last Name:	Krysiak
Title:	EHS Engineer
Telephone:	607.974.0246
Fax:	
Mobile:	
E-mail:	krysiakcd@corning.com

1.3 Existing and Projected Facility Water Use

The usage should be entered in million gallons per day (mgd) and rounded off to the nearest one thousand gallons (three decimal places).

Projected Design Year:
2018

Total Project Water Usage	**Existing Usage (mgd)**	**Projected Usage For Design Year (mgd):**
Maximum 30-day Average Water Demand :	0.045	0.54
Maximum Daily Water Demand :	0.1	0.65
System Capacity :	0.7	0.7

1.4 Requested Withdrawal Amount:

Estimated Daily Hours of Operation per Day (Ex. = 5):	24
Maximum Instantaneous Withdrawal Rate (gpm):	450
Maximum 24-Hour Day (mgd):	0.65
Maximum 30-Day Average (mgd):	0.54

2.2 Facility Location

Please enter the address of the parcel where the Project Facility is located.

Street Address:	673 County Rt. 64
State:	NY
County:	Chemung
Municipality:	Big Flats Town
Zip Code:	14814
Subbasin:	Chemung

Section 2.1 Project Facility Description:

Corning Incorporated (Corning) owns and occupies the Corning Innovation Support Center (CISC) (aka Big Flats) in Big Flats, New York as a pilot scale manufacturing research and development (R&D) facility. The site is primarily occupied for early manufacturing of Valor Glass products (CPT Division) along with other R&D operations. This facility is used to scale up promising R&D operations from the Corning Sullivan Park complex to determine if mass production can be successful.

The current water system is comprised of two (2) production wells piped into a common manifold supplying the facility. CISC Carpenter Road Well No.1 and CISC Carpenter Road Well No.2 are equipped with 30 HP pumps rated at 450gpm at 50 PSI. Separate potable water is provided by the Town of Big Flats. Within the incoming well and Town of Big Flats water lines are valves that can be exercised to transition the facility to Town of Big Flats water only. The Town of Big Flats has verbally indicated that they could provide the CISC facility with 500,000 gallons of water per day. However, the piping infrastructure is too small to accommodate that amount of water from the Town of Big Flats. Significant infrastructure upgrades would be needed to support the facility on only Town of Big Flats water. All wastewater created in the facility is currently discharged to the Chemung County Sewer District. Noncontact cooling water and storm water discharge into Cuthrie Creek under a New York State Pollution Discharge Elimination System (SPDES) permit (Permit No. NY 008 4468).

The CPT Division is planning an expansion of their pilot line which will use increased quantities of high-purity water. It is anticipated that the peak water supply for new facility equipment (water softeners and carbon filters) is estimated to be 0.345 MGD. The peak daily water demand is anticipated to be transient and tied to production shifts (e.g. 8 hrs, 16 hrs, etc.). The potential future demand could increase peak water usage by 25% above the initial increase in demand; the long term predicted water use at the facility is estimated to be approximately 0.54 MGD. This expansion of the existing well system is being sought to fill this demand. The expectation is that this growth trend will continue in phases over the next 3 to 5 years.

Corning is proposing to increase its groundwater withdrawal from the two (2) production wells (CISC Carpenter Road Wells No. 1 and No. 2) that serves the CISC facility to support the expansion of the CPT Division pilot line. Currently the maximum average 30-day withdrawal is approximately 0.045 million gallons per day (MGD) and the withdrawal from the combined wells is expected to increase in the next 3 to 5 years to 0.54 MGD. Corning is requesting approval from SRBC to increase its groundwater withdrawal from the two production wells to meet the CISC facility water demand.