

Susquehanna River Basin Commission

a water management agency serving the Susquehanna River Watershed



November 18, 2003

TO ALL CONCERNED:

At the October 9, 2003 meeting, the draft minutes of the August 14, 2003 Commission meeting were approved as written. Please attach this notice to your copy of the August 14, 2003 minutes.

- DRAFT -

SUSQUEHANNA RIVER BASIN COMMISSION
1721 N. FRONT ST.
HARRISBURG, PA 17102

**MINUTES OF THE
SUSQUEHANNA RIVER BASIN COMMISSION**

October 9, 2003
#2003-09&10

The meeting was held at the Holiday Inn, Oneonta, N.Y. Chairwoman Cathy Curran Myers called the meeting to order at 8:38 a.m.

ROLL CALL

Commissioners Present

Ms. Cathy Curran Myers, Director, Office of River Basin Cooperation, Pa. Dept. of Environmental Protection

Mr. Matthew G. Pajeroski, Chief, Water Rights Division, Md. Dept. of the Environment

Mr. Kenneth P. Lynch, Director, Region 7, N.Y. Dept. of Environmental Conservation

**Alternate Commissioners
and Advisors Present**

Mr. William A. Gast, Division of Water Use Planning, Pa. DEP

Ms. Stacey E. Brown, U.S. Army Corps of Engineers

Mr. Scott J. Foti, Regional Flood Control Eng., N.Y. DEC, Region 8

Staff Present

Mr. Paul O. Swartz, Executive Director

Mr. Thomas W. Beauduy, Deputy Director

Mr. David W. Heicher, Chief
Watershed Assessment & Protection Division

Mr. Glen R. DeWillie, Chief
Water Resources Management Division

Mr. Duane A. Friends, Chief Admin. Officer

Mr. Richard A. Cairo, Counsel/Secretary

Ms. Deborah J. Dickey, Executive Administrator

Ms. Susan S. Obleski, Director of
Communications

INTRODUCTION/WELCOME

Chairwoman Cathy Myers introduced the members of the Commission and the Executive Director.

MINUTES OF AUGUST 14, 2003 COMMISSION MEETING

On a motion by Commissioner Lynch, seconded by Commissioner Pajerowski, the minutes of the regular business meeting of August 14, 2003, were unanimously adopted as written.

HYDROLOGIC CONDITIONS REPORT

SRBC Water Management Division Chief Glen DeWillie reported on continuing wet conditions in the Susquehanna River Basin. Precipitation for the month of September alone was 3.91 inches above normal. This is in stark contrast to one year ago, when Mr. DeWillie was reporting a 2-inch rainfall deficit for the same period. Surprisingly, the majority of the September surplus was not associated with the Hurricane Isabel event, but with rainfall events occurring on September 2 and September 23.

As would be expected, stream flows are above the seasonal median throughout the basin. Flows remained well above normal for virtually the entire month of September. Similarly, all 18 USGS observation wells in the Pennsylvania portion of the river basin are above the 25th percentile water level for this time of year. All observation wells in New York and Maryland are also at normal or above normal levels.

Mr. DeWillie then added a word about SRBC coordination efforts with the National Weather Service and member state officials prior to and during the Isabel event. The basinwide flood forecast and warning system served as the vehicle for this coordination.

SRBC New York representative Janet Thigpen also mentioned the upcoming 3rd Annual Conference of the New York State Flood Plain and Storm Water Managers to be held on November 5 and 6, 2003 at the Binghamton Regency Hotel and Conference Center.

PRESENTATIONS

a. SRBC Monitoring Activities

SRBC Watershed Assessment and Protection Chief David Heicher highlighted the Commission's water quality monitoring activities, such as interstate stream monitoring, which monitors water quality trends on streams that cross state lines. Data are submitted to the U.S. Environmental Protection Agency (EPA), the Commission's member states and other interested parties. Some other important monitoring programs mentioned include:

1. Subbasin Survey—Water quality conditions in each of the six subbasins of the Susquehanna River Basin are periodically surveyed. Work is underway on the

- Juniata Subbasin Survey, with a report due in July, 2005. Sampling was recently completed for the Middle Susquehanna and a report will be issued in July, 2004. One focus of the Middle Susquehanna Survey was Morgan Run, a stream affected by Abandoned Mine Drainage (AMD). The survey data will be used in a restoration project. The data compiled in the surveys are also used in the 305(b) and 303(d) program listings.
2. State Surface Water Assessment – PA DEP is relying on SRBC to collect data for Section 303(d) impaired stream listings. Work has been completed on 13 sites.
 3. Large River Assessment – The plan is to sample every thirty miles to provide a picture of water quality on the main river.
 4. Chesapeake Bay Nutrient Monitoring – The purpose of this monitoring, which has continued since the early 1980s, is to track trends in nutrient inflows to Chesapeake Bay from the Susquehanna River. A total of six sites are monitored on the river and its major tributaries. Executive Director Paul Swartz noted a statistically significant, long-term downward trend in nutrients entering the Bay from the Susquehanna River.
 5. Tioga River Watershed – The AMD affected Tioga River flows from Pennsylvania into New York. Monitoring is being done to determine where restoration efforts should be focused to achieve the best results.
 6. Public Water Supply Monitoring – The Commission works with public water suppliers to encourage monitoring of intakes and sharing of information on spills. As part of the Commission's efforts to develop an Early Warning Communication Network (EWCN), staff is working with several public water suppliers on the Susquehanna River to install real-time monitoring stations. These stations provide the framework for monitoring source water quality prior to withdrawal into the treatment plant, enhancing protection of public health while also lowering treatment costs.

Possible future directions include reservoir monitoring, wetland monitoring and monitoring related to implementation of the Natural Resource and Conservation Service (NRCS) conservation programs funded by the farm bill.

A member of the audience asked Mr. Heicher about leakage of leachate into the Susquehanna River at a landfill site near Otego. The Commission does not monitor individual sites; however, Commissioner Lynch noted that the NYS DEC has an extensive investigation underway on the site that could result in an enforcement action against the landfill owner and the likely requirement of a remediation plan.

b. Otsego County Watershed Management Activities

Mr. Jason Mulford, Manager of the Otsego County Soil & Water Conservation District, presented an overview of water quality and watershed management projects in the Otsego Lake Watershed and in other areas of Otsego County, New York.

Mr. Mulford began his presentation with a quick overview on the work of conservation districts, which were created during the days of the dust bowl in the 1930s. Conservation districts have become prime implementers of soil and water conservation programs. He estimated that for every dollar invested by the County in the work of the District, \$25 is obtained through various state and federal programs.

He went on to describe some of the programs including:

- Barnyard manure storage.
- Reducing road ditch soil loss.
- Assisting with various farm bill conservation programs, including Environmental Quality Incentives Program (EQIP), Conservation Reserve Program (CRP) and Wetlands Reserve Program (WRP). A particularly noteworthy accomplishment has been the completion of 60 wetland restoration contracts in 7 years.
- Lake Management Plans for Otsego and Goodyear Lakes.
- Ponds for migratory birds in cooperation with Ducks Unlimited.
- Educational efforts like Envirothon and municipal forums.
- Agricultural Environmental Management program under which the district helps farmers identify particular environmental problems, such as excess nutrients.
- Streamside cleanup programs.

ACTION ITEMS

a. Public Hearing – Project Review

The Commission convened a public hearing on applications before the Commission for review and approval.

SRBC Water Management Division Chief Glen DeWillie provided some background information on the Commission's review authority and water use regulations. The main purpose of these regulations is to avoid adverse environmental impacts and conflicts among users, particularly during periods of drought and low flow. Cumulative impacts are also considered. He explained the methods available for compliance with the consumptive use regulation, including discontinuance of use, provision of storage water, and payment into the SRBC Water Management Fund to enable purchase of water storage for release during low flow periods. Unless otherwise noted, projects described have chosen payment as their compliance method.

He listed the standard requirements for each project sponsor, including: 1) notice of application; 2) coordination with member jurisdictions; 3) pumping tests for ground-water withdrawals; 4) metering, monitoring and reporting of water use; 5) mitigation or other special

conditions where there is a potential for adverse impacts; 6) water conservation; and 7) docket reopening authority. He also mentioned that many of the following projects have been processed through the Commission's Compliance Incentive Program that allowed project sponsors a limited opportunity to apply for Commission approval without the imposition of penalties for past non-compliance.

The dockets recommended for action included the following 10 projects:¹

- Town of Conklin (Exhibit A1)
- Village of Cohocton (Exhibit A2)
- Corning, Inc.- Erwin Park Photonics (Exhibit A3)
- Elk Mountain Ski Resort, Inc. (Exhibit A4)
- Liberty Valley Country Club (Exhibit A5)
- Juniata College (Exhibit A6)
- Sportsman's Golf Course (Exhibit A7)
- East Cocalico Township Authority (Exhibit A8)
- Shippensburg University (Exhibit A9)
- Town of Rising Sun (Exhibit A10)

Mr. DeWillie recommended the tabling of an eleventh project, Ski Roundtop Operating Corporation, at the request of the project sponsor. New information was recently submitted to the Commission and the sponsor is also constructing storage ponds. These new factors need to be evaluated to determine their overall effect on the entire water system for the project.

Mr. DeWillie explained that the Sportsman's Golf Course had been removed from the Compliance Incentive Program for failure to provide information that the Commission has been seeking for 2½ years. The proposed docket contains a recommendation for a \$30,000 penalty covering arrearages in water use charges, the economic benefits accruing from the use of the water, and the failure of the sponsor to cooperate with the Commission. The sponsor has been informed of this penalty recommendation but chose not to make a settlement in-lieu-of penalty offer.

Mr. DeWillie then presented specific information on the remaining dockets. All dockets and any accompanying written comments from the public were provided to the commissioners in advance of this meeting.

Commissioner Pajeroski asked whether it was necessary to require wetlands monitoring for the proposed Rising Sun project. Mr. DeWillie explained that staff had observed a hydrologic connection between the groundwater withdrawal and the wetland, and is therefore recommending monitoring for at least one year.

Also, Commissioner Pajeroski wondered why a daily record of well levels is recommended for Rising Sun when most other dockets require a weekly record. After checking with project review staff by telephone, Deputy Director Tom Beauduy reported that the pump test for Rising Sun was performed prior to the adoption of the pump test guidance. Rather than request a new pump test, the sponsor is being asked to keep daily well level records for the one-

¹ Docket decisions are not included with the hard copy of the minutes. However, they are available upon request and at www.srbc.net.

year period that monitoring is underway. Commissioner Pajerowski suggested that language be added to the docket indicating that daily records of well levels would be required during the one-year monitoring period and that, thereafter, weekly records would suffice. The Commission agreed to this amendment.

On a motion by Commissioner Lynch, seconded by Commissioner Pajerowski, the Commission unanimously approved the staff recommendations, as amended, for all of the dockets presented.

b. Emergency Water Withdrawals/Consumptive Use Procedures

Mr. DeWillie presented a resolution (Exhibit B) to adopt a set of procedural guidelines for dealing with Commission Regulation 18 CFR §803.27 applications for emergency certificates for water withdrawals and consumptive uses. These procedures will help ensure that, as intended by the regulation, legitimate public health and safety concerns exist prior to issuance of such certificates. Also, an administrative process is needed to provide the necessary Commission scrutiny while, at the same time, expediting the processing of emergency certificate applications. These guidelines were drafted in consultation with the Commission's Water Resources Management Advisory Committee (WRMAC), and received extensive internal and external review.

On a motion by Commissioner Pajerowski, seconded by Commissioner Lynch, the Commission unanimously adopted the resolution.

c. Grant Approvals

SRBC Watershed Assessment and Protection Chief David Heicher presented the following two grant contracts for ratification by the Commission:

1. **Section 729 of Water Resources Act of 1986** – Signing of a U.S. Army Corps of Engineers grant to investigate the major water resource problems in the basin, including resource protection, environmental needs, and conflicting water issues during low flow conditions. The Corps will provide \$60,000 for the project with no match from the Commission.
2. **USEPA Chesapeake Bay Comprehensive Analysis of Tidal and Nontidal Tributary Water** – Signing of an EPA grant that will be used to provide an update on the status and trends in water quality delivered from the Susquehanna River to the Chesapeake Bay for the period of 1985 to 2003. The EPA will provide \$14,390 for the project with a match of \$4,680 from the Commission.

Commissioner Pajerowski commented that, while it would not be desirable for the Commission to be excessively grant driven in its activities, he believed staff had done a good job of matching grants to the work and mission of the Commission.

On a motion by Commissioner Pajerowski, seconded by Commissioner Lynch, the grant contracts described above were unanimously ratified by the Commission.

d. 2004 Commission Meeting Schedule

Executive Director Paul Swartz presented a tentative Commission meeting schedule for 2004. Under his proposal, there would be a significant departure from current practice. The Commission would formally meet only four times in the months of March, June, September and December. Teleconference meetings to deal only with project applications would be held in February and October, if necessary. The new schedule is designed to better accommodate the increasingly busy work schedules of commissioners and to reduce meeting costs.

Chairwoman Myers noted that she had initiated discussions on modifications to the current meeting schedule and the Executive Director had responded to her concerns with this proposal. The teleconference meetings may also be beneficial for the public, who will be able to participate in meetings nearer to their homes instead of traveling to a more remote location. Communications Director Susan Obleski announced that the schedule would be posted on the Commission's web site after it is finalized.

The Commission agreed to the schedule proposed by the Executive Director.

PUBLIC COMMENT

Mr. Dean Frazier from Delaware County, New York asked what role the Commission plays in the development of nutrient caps. The Executive Director responded that the Commission would play no role unless the member states requested that it play a role. Chairwoman Myers confirmed that the states would establish the caps and decide on strategies for achieving them. She added that public input would be an important part of that process.

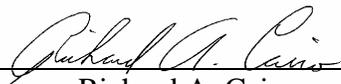
ADJOURNMENT

There being no further business before the Commission, Chairwoman Myers adjourned the meeting at approximately 11:55 a.m.

NEXT MEETING

The next regular meeting of the Commission is tentatively scheduled for December 11, 2003 in Cecil County, Maryland.

Date Adopted


Richard A. Cairo
General Counsel/Secretary to the Commission



SUSQUEHANNA RIVER BASIN COMMISSION

1721 North Front Street • Harrisburg, Pennsylvania 17102-2391

Phone (717) 238-0423 • Fax (717) 238-2436

Web <http://www.srbc.net>

Docket No. 20031001

Approval Date: October 9, 2003

TOWN OF CONKLIN

Ground-Water Withdrawals (30-Day Average) of 0.291 mgd from Well 1A and 0.350 mgd from Well 6, and a Total System Withdrawal Limit (30-Day Average) of 0.50 mgd,
for Public Water Supply,
Town of Conklin, Broome County, New York

Review Authority

This project is subject to review pursuant to Article 3, Section 3.10 of the Susquehanna River Basin Compact, P.L. 91-575, and Commission Regulations §803.4, relating to projects requiring review and approval, and §803.43, relating to ground-water withdrawals. The Commission received the application on November 25, 2002, and supplemental information on September 9, 2003.

Description

Purpose. The purpose of the application is to request approval for the withdrawal of ground water for distribution in a public water supply system.

Location. The project is located in the Upper Susquehanna Subbasin, HUC 02050101, Susquehanna River Watershed, Town of Conklin, Broome County, New York.

Project Features. The project sponsor has requested approval for the withdrawals (30-day average) of 0.291 million gallons per day (mgd) from Well 1A and 0.35 mgd from Well 6. Well 6 will be used as a source for the public water supply system that currently relies on Wells 1A and 4. Well 1A was drilled as a replacement well for Well 1 and, although it has been in regular use since approximately 1996, Well 1A was never permitted. Well 1 was drilled in 1969 prior to the effective date of Commission Regulation §803.43, relating to ground-water withdrawals. The Commission previously approved a 0.500-mgd withdrawal from Well 4 on September 8, 1988, in Commission Docket No. 19880904.

Both wells are screened in sand and gravel valley-fill alluvium. Well 1A was constructed with a 12-inch-diameter, gravel-packed screen from a depth of 30 feet to a depth of 40 feet. The well is cased with 12-inch-diameter steel casing to a depth of 30 feet. Well 6 was constructed with a 12-inch-diameter, gravel-packed screen from a depth of 65 feet to a depth of 83 feet. The

well is cased with 18-inch-diameter steel casing to a depth of 65 feet. The outside of this 18-inch outer casing is grouted (18 x 24 inch annulus) to a depth of 28 feet. Well 6 will be pumped intermittently.

The public water supply system has an existing average daily demand of 0.291 mgd, and an existing maximum daily demand of 0.475 mgd. The average and maximum daily demands are projected to grow to 1.500 and 2.000 mgd, respectively, by 2024.

Pumping Test. No testing data was submitted for Well 1A but the well has been in routine operation, pumping at 600 gpm apparently without any adverse impacts since approximately 1996. A 72-hour constant-rate pumping test of Well 6 and nearby Well 5 (a test well located 100 feet from Well 6) was conducted on November 2-5, 1999, with the two wells pumping concurrently throughout the test. Stepped-rate pumping tests of Wells 5 and 6 preceded the constant-rate pumping test. During a 6-hour stepped-rate pumping test, Well 6 was pumped at rates varying from 904 to 1,428 gpm. During an 8-hour stepped-rate pumping test, Well 5 was pumped at rates varying from 278 to 906 gpm.

The testing was not pre-approved by Commission staff. With Wells 5 and 6 pumping at 767 and 1,678 gpm, respectively (2,445 gpm combined rate), 11.58 feet of drawdown occurred at Well 6 after 72 hours of pumping. Drawdown of 1.9 feet occurred after 72-hours of pumping at an observation well located 100 feet from both Wells 5 and 6.

Coordination. Commission staff has coordinated with the New York State Department of Environmental Conservation (NYSDEC) Region 7 Office during review of the project. NYSDEC staff has reviewed this docket for consistency with its requirements. NYSDEC approved the withdrawals from Well 1A on April 2, 2003, and Well 6 on March 27, 2003, and imposed a system limit of 0.500 mgd for all well sources.

Findings

The project is subject to Commission approval and reporting requirements, as per Commission Regulation §803.43.

Commission staff recommends approval of 30-day average withdrawals of 0.291 mgd from Well 1A, 0.35 mgd from Well 6, and a total system 30-day average withdrawal of 0.500 mgd. Commission staff recommends approval of peak instantaneous pumping rates of 600 gpm for Well 1A and 1,500 gpm for Well 6.

The project sponsor did not have any pumping test data to submit for Well 1A. Although this well was never approved, it has been in regular use since approximately 1996 without adverse impacts. The project sponsor submitted records of the well's operation during the last year. Commission staff recommends that the pumping test requirement be waived for this well due to the nature of the hydrogeologic setting and operation records.

The concurrent pumping of Wells 5 and 6 during the 72-hour pumping test made interpretation of aquifer properties and a rigorous interpretation of the impacts from Well 6

difficult. However, the high pumping rates of the pumping test indicated that the valley-fill aquifer at the site of Well 6 likely has a high transmissivity. The project sponsor's consultant provided no interpretation of the pumping test or projection of long-term impacts.

To evaluate potential adverse impacts, Commission staff determined aquifer transmissivity from published reports and available data (analysis of recovery and the stepped-rate pumping tests). Using this transmissivity and a conservatively high pumping rate (0.500 mgd, or 142 percent of the proposed pumping rate) for Well 6, Commission staff projected minimal long-term drawdown (less than 0.6 feet) at distances of more than 100 feet from Well 6. Therefore, Commission staff finds that there is likely minimal impact to any existing nearby water users and the aquifer.

Commission staff also evaluated ground-water availability in the vicinity of the well field using a U.S. Geological Survey (USGS) report (WRI 86-4123), local average annual recharge to the valley-fill aquifer was determined to be more than 7 mgd. The total system withdrawal of 0.500 mgd proposed by the Town of Conklin is less than 10 percent of this average annual recharge. Further, the USGS study documented that high-capacity pumping wells in this valley-fill aquifer induce large quantities of surface water to infiltrate from the nearby Susquehanna River. In the extreme case, if all of the 0.500 mgd withdrawal of the Town of Conklin was induced from the Susquehanna River, it would constitute only 0.4 percent of the River's Q7-10 low flow (192.4 cfs, or 124 mgd) in this area.

The project is subject to the Commission's water conservation requirements, as per Commission Regulation §804.20(a). The water system is 100 percent metered, and system losses are less than 20 percent, which is in compliance with this regulation.

The project sponsor has paid the appropriate application fee in accordance with Commission Regulation §803.28, and in accordance with Commission Resolution 98-19, as amended by Commission Resolution 2000-06. The project sponsor has provided all proofs of notification as required by Commission Regulation §803.25.

The project is physically feasible, does not conflict with or adversely affect the Commission's Comprehensive Plan, and does not adversely influence the present or future use and development of the water resources of the basin.

Decision

The project's ground-water withdrawal of 0.291 mgd (30-day average) from Well 1A, 0.350 mgd (30-day average) from Well 6, and a total system withdrawal limit of 0.500 mgd (30-day average) is approved pursuant to Article 3, Section 3.10 of the Compact, subject to the following conditions:

a. The project sponsor shall comply with all Commission regulations, including ground-water withdrawal reporting requirements, as per commission Regulation §803.43.

b. The project sponsor shall keep daily records of the metered withdrawal and weekly water levels from Wells 1A and 6. The required reporting data shall be submitted to the Commission annually, and as otherwise required. Monitoring reports are due within sixty (60) days after the close of the preceding year. The project sponsor shall maintain the existing meters, accurate to within five (5) percent, on Wells 1A and 6.

c. The maximum instantaneous rates of production from Wells 1A and 6 shall not exceed 600 gpm and 1,500 gpm, respectively.

d. The constant rate pumping test requirement specified in Commission Regulation §803.43 (b) is hereby waived for Well 1A.

e. The project sponsor shall comply with the water conservation requirements specified in Commission Regulation §804.20(a).

f. If the Commission determines that the operation of the project's ground-water withdrawal from Wells 1A or 6 adversely affects any existing ground-water or surface-water withdrawal, the project sponsor shall be required to provide, at its expense, an alternate water supply or other mitigating measure.

g. Commission approval shall not be construed to exempt the project sponsor from obtaining all necessary permits and/or approvals required for the project from other federal, state, or local government agencies having jurisdiction over the project. The Commission reserves the right to modify, suspend, or revoke this action if the project sponsor fails to obtain or maintain such approvals.

h. The Commission reserves the right to inspect or investigate the project facility, and the project sponsor shall allow authorized employees or agents of the Commission, without advance notice or a search warrant, at any reasonable time and upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas where the project is being constructed, operated, or maintained. Such employees or agents shall be authorized to conduct tests or sampling, to take photographs, to perform measurements, surveys, and other tests, to inspect the methods of construction, operation, or maintenance, to inspect all measurement equipment, to audit, examine, and copy books, papers, and records pertinent to any matter under investigation, and to take any other action necessary to assure that the project is constructed, operated, or maintained in accordance with the terms and conditions of this approval or any other rule, regulation, or order of the Commission.

i. If the project sponsor fails to comply with any term or condition of this docket, the Commission may suspend, modify, or revoke its approval of same, and may impose appropriate fines and penalties. Upon written notice by the Commission, the project sponsor shall have thirty (30) days to correct such noncompliance, unless an alternate period is specified in the notice. Nothing herein shall preclude the Commission from exercising its authority to immediately modify, suspend, or revoke this approval where it determines exigent circumstances warrant such action, or from imposing fines and penalties, regardless of the period of noncompliance.

j. The Commission reserves the right to reopen any project docket or issue such additional orders, as may be necessary, to mitigate or avoid adverse impacts or otherwise to protect public health, safety, welfare, or the environment.

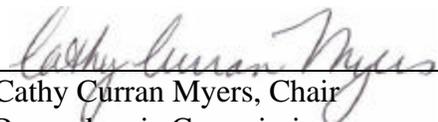
k. Commission approval confers no property rights upon the project sponsor. The securing of all rights necessary and incident to the project sponsor's development and operation of the project shall be the sole and exclusive responsibility of the project sponsor, and this approval shall be subject thereto.

l. This approval is effective until October 9, 2028. The project sponsor shall submit a renewal application by April 9, 2028, and obtain Commission approval prior to continuing operation beyond October 9, 2028.

m. The project sponsor has a period of three (3) years from the date of this approval to initiate the project or such approval will automatically expire, unless an extension is requested by the project sponsor and approved by the Commission. Likewise, if the project is discontinued for such a time and under such circumstances that an abandonment of the project may be reasonably inferred, the Commission may rescind the approval of the project unless a renewal is requested by the project sponsor and approved by the Commission.

By the Commission:

Dated: October 9, 2003



Cathy Curran Myers, Chair
Pennsylvania Commissioner



SUSQUEHANNA RIVER BASIN COMMISSION

1721 North Front Street • Harrisburg, Pennsylvania 17102-2391

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Docket No. 20031004

Approval Date: October 9, 2003

VILLAGE OF COHOCTON

Ground-Water Withdrawal (30-Day Average) of 0.130 mgd from Well 3, and a Total System Withdrawal Limit (30-Day Average) of 0.130 mgd,
for Public Water Supply,
Village of Cohocton, Steuben County, New York

Review Authority

This project is subject to review pursuant to Article 3, Section 3.10 of the Susquehanna River Basin Compact, P.L. 91-575, and Commission Regulations §803.4, relating to projects requiring review and approval, and §803.43, relating to ground-water withdrawals. The Commission received the application May 27, 2003.

Description

Purpose. The purpose of the application is to request approval for the withdrawal of ground water for distribution in a public water supply system.

Location. The project is located in the Chemung Subbasin, HUC 02050105, Cohocton River Watershed, Village of Cohocton, Steuben County, New York.

Project Features. The project sponsor has requested approval for the withdrawal (30-day average) of 0.130 million gallons per day (mgd) from Well 3. Well 3 will be used as a source for the public water supply system that currently relies on Wells 1 (Maple Ave.) and 2 (Erie St.). Well 3 was drilled as a replacement well for Well 2, which will be abandoned due to nitrate contamination. Wells 1 and 2 were drilled in the 1967 and 1977, respectively, which was prior to the effective date of Commission Regulation §803.43, relating to ground-water withdrawals.

Well 3 is located approximately two miles north of the Village of Cohocton along Route 371 and approximately 1,800 feet east of the Cohocton River. Well 3 is screened in sand and gravel valley-fill alluvium. Well 3 was constructed with a 10-inch diameter, gravel-packed stainless steel wire screen from a depth of 90 feet to a depth of 100 feet. The well is cased with 10-inch-diameter steel casing to a depth of 90 feet. Well 3 will be pumped as the primary production well.

The public water supply system has an existing average daily demand of 0.103 mgd, and an existing maximum daily demand of 0.324 mgd. The average and maximum daily demands are projected to grow to 0.130 and 0.390 mgd, respectively, by 2028.

Pumping Test. A 49-hour constant-rate pumping test of Well 3 was conducted on January 28-30, 2003, with prior Commission approval. In addition to the pumping well, three observation wells (MW 1, 2 and 3) and two private domestic wells were monitored during the test. Monitoring points were located at distances of 8 to 2,500 feet from Well 3. A stepped-rate pumping test of Well 3 preceded the constant-rate pumping test. Pumping at an average rate of 420 gallons per minute (gpm), total drawdown at the pumping well was approximately 4.78 feet at the end of the 2-day test. Drawdown at the end of the pumping period was less than one foot at the two domestic wells located within 1,000 feet of Well 3. The distance drawdown graph projects a drawdown of 6 inches at a radius of 2,000 feet from Well 3.

Coordination. Commission staff has coordinated with the New York State Department of Environmental Conservation (NYSDEC) Region 8 Office during review of the project. NYSDEC staff has reviewed this docket for consistency with its requirements.

Findings

The project is subject to Commission approval and reporting requirements, as per Commission Regulation §803.43.

Pumping test results indicate that Well 3 draws water from a highly transmissive valley-fill aquifer. Commission staff recommends approval of a 30-day average withdrawal of 0.130 mgd from Well 3, and a total system 30-day average withdrawal of 0.130 mgd. Commission staff recommends approval of a peak instantaneous pumping rate of 420 gpm for Well 3.

The project sponsor concurs that a 30-day average withdrawal rate from all sources of 0.130 mgd will be adequate to supply the projected increase in maximum daily demand during the term of this approval.

Commission staff recommends that the project sponsor install appropriate metering on Well 3 to monitor and record the ground-water withdrawal.

Commission staff reviewed the ground-water availability analysis and supporting information submitted by the project sponsor. Commission staff has concluded that the ground-water withdrawal will not have a significant impact on private water supply wells in the area. The project sponsor's consultant evaluated ground-water availability in the Cohocton River aquifer and determined local average recharge during a one in ten year drought to be more than 11.000 mgd. The total system withdrawal of 0.130 mgd proposed by the Village of Cohocton is less than 4 percent of this daily recharge.

The project is subject to the Commission's water conservation requirements, as per Commission Regulation §804.20(a). The water system is 95 percent metered, which is not in compliance with this regulation, and the system had an unaccounted-for water loss of 33 percent in 2001, which exceeds the 20 percent maximum set forth in Commission Regulation §804.20(a)(1). Commission staff recommends that the project sponsor be required to comply with Commission Regulation §804.20(a) within 5 years, and to report annually on its actions to install additional metering and reduce unaccounted-for water to the required 20 percent or less standard, including its routine leak detection program.

The project sponsor has paid the appropriate application fee in accordance with Commission Regulation §803.28, and in accordance with Commission Resolution 98-19, as amended by Commission Resolution 2000-06. The project sponsor has provided all proofs of notification as required by Commission Regulation §803.25.

The project is physically feasible, does not conflict with or adversely affect the Commission's Comprehensive Plan, and does not adversely influence the present or future use and development of the water resources of the basin.

Decision

The project's ground-water withdrawal of 0.130 mgd (30-day average) from Well 3, and a total system withdrawal limit of 0.130 mgd (30-day average) is approved pursuant to Article 3, Section 3.10 of the Compact, subject to the following conditions:

- a. The project sponsor shall comply with all Commission regulations, including ground-water withdrawal reporting requirements, as per commission Regulation §803.43.
- b. The project sponsor shall keep daily records of the metered withdrawal and weekly water levels from Well 3. The required reporting data shall be submitted to the Commission annually, and as otherwise required. Monitoring reports are due within sixty (60) days after the close of the preceding year. The project sponsor shall install a meter, accurate to within five (5) percent, on Well 3.
- c. The maximum instantaneous rate of production from Well 3 shall not exceed 420 gpm.
- d. The project sponsor shall comply with the water conservation requirements contained in Commission Regulation §804.20(a). The project sponsor shall have 100 percent of its customers metered and shall have reduced the unaccounted-for water to 20 percent or less by October 9, 2008. The project sponsor shall report to the Commission annually on the progress made pursuant to this requirement. The project sponsor must petition the Commission for an extension should unforeseen events occur that preclude compliance with the October 9, 2008 deadline.

e. If the Commission determines that the operation of the project's ground-water withdrawal from Well 3 adversely affects any existing ground-water or surface-water withdrawal, the project sponsor shall be required to provide, at its expense, an alternate water supply or other mitigating measure.

f. Commission approval shall not be construed to exempt the project sponsor from obtaining all necessary permits and/or approvals required for the project from other federal, state, or local government agencies having jurisdiction over the project. The Commission reserves the right to modify, suspend, or revoke this action if the project sponsor fails to obtain or maintain such approvals.

g. The Commission reserves the right to inspect or investigate the project facility, and the project sponsor shall allow authorized employees or agents of the Commission, without advance notice or a search warrant, at any reasonable time and upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas where the project is being constructed, operated, or maintained. Such employees or agents shall be authorized to conduct tests or sampling, to take photographs, to perform measurements, surveys, and other tests, to inspect the methods of construction, operation, or maintenance, to inspect all measurement equipment, to audit, examine, and copy books, papers, and records pertinent to any matter under investigation, and to take any other action necessary to assure that the project is constructed, operated, or maintained in accordance with the terms and conditions of this approval or any other rule, regulation, or order of the Commission.

h. If the project sponsor fails to comply with any term or condition of this docket, the Commission may suspend, modify, or revoke its approval of same, and may impose appropriate fines and penalties. Upon written notice by the Commission, the project sponsor shall have thirty (30) days to correct such noncompliance, unless an alternate period is specified in the notice. Nothing herein shall preclude the Commission from exercising its authority to immediately modify, suspend, or revoke this approval where it determines exigent circumstances warrant such action, or from imposing fines and penalties, regardless of the period of noncompliance.

i. The Commission reserves the right to reopen any project docket or issue such additional orders, as may be necessary, to mitigate or avoid adverse impacts or otherwise to protect public health, safety, welfare, or the environment.

j. Commission approval confers no property rights upon the project sponsor. The securing of all rights necessary and incident to the project sponsor's development and operation of the project shall be the sole and exclusive responsibility of the project sponsor, and this approval shall be subject thereto.

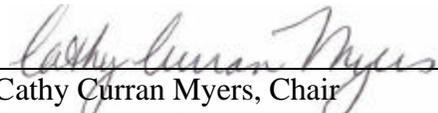
k. This approval is effective until October 9, 2028. The project sponsor shall submit a renewal application by April 9, 2028, and obtain Commission approval prior to continuing operation beyond October 9, 2028.

l. The project sponsor has a period of three (3) years from the date of this approval to initiate the project or such approval will automatically expire, unless an extension is requested by

the project sponsor and approved by the Commission. Likewise, if the project is discontinued for such a time and under such circumstances that an abandonment of the project may be reasonably inferred, the Commission may rescind the approval of the project unless a renewal is requested by the project sponsor and approved by the Commission.

By the Commission:

Dated: October 9, 2003



Cathy Curran Myers, Chair
Pennsylvania Commissioner



SUSQUEHANNA RIVER BASIN COMMISSION

1721 North Front Street • Harrisburg, Pennsylvania 17102-2391
Phone (717) 238-0423 • Fax (717) 238-2436
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Docket No. 20031002

Approval Date: October 9, 2003

CORNING, INC.—ERWIN PARK PHOTONICS

Consumptive Water Use of Up to 0.084 mgd, for Manufacture of Fiber Optic Components,
Town of Erwin, Steuben County, New York

Review Authority

This project is subject to review pursuant to Article 3, Section 3.10 of the Susquehanna River Basin Compact, P.L. 91-575, and Commission Regulations §803.4, relating to projects requiring review and approval, and §803.42, relating to the consumptive use of water. The Commission received the application on July 2, 2001.

Description

Purpose. The purpose of the application is to request approval for the consumptive use of water associated with the manufacture of fiber optic components.

Location. The project is located in the Chemung Subbasin, HUC 02050105, Cohocton River Watershed, Town of Erwin, Steuben County, New York.

Project Features. The project sponsor has requested approval for the consumptive use of water of up to 0.084 million gallons per day (mgd). Based on metered water use data for the years 2001 and 2002 submitted by the project sponsor, Commission staff calculates the project's maximum average 30-day consumptive water use to be 0.044 mgd, and current peak-day consumptive water use to be 0.057 mgd. Operations began at the facility in October 1997.

The Town of Erwin—Morningside Heights Water District water supply system provides water to the facility. The water is metered as it enters the facility through one incoming water line, and is used for boiler makeup, building air conditioning, and sanitary purposes.

Makeup water supplied to the facility's four cooling towers and three steam boilers (humidification) is metered separately. Three separate hot water boilers are configured in a closed loop system and provide heat for the facility. Blowdown water from the cooling towers and boilers is not metered. The blowdown water is discharged to the Town of Erwin sanitary sewer system.

Sanitary wastewater from the facility is not metered and is discharged to the Town of Erwin sanitary sewer system.

Findings

The project is subject to Commission approval and reporting requirements, as per Commission Regulation §803.42.

All water evaporated by the facility's cooling towers, and used for boiler makeup, is considered to be used consumptively. Commission staff recommends that the project's total daily consumptive water use be determined by summing the daily consumptive water use of the facility's cooling towers and boilers.

The facility uses four cooling towers to meet the building air-conditioning demands. Makeup water to the cooling towers is measured by two separate meters that currently are monitored on a daily basis by the project sponsor. One meter measures the makeup water to Cooling Towers 1, 2, and 3, and the second meter measures the makeup water to Cooling Tower 4. The project sponsor has determined that blowdown water from the cooling towers is nominal, and will not be accounted for in determining the evaporation by the cooling towers. Therefore, the metered makeup water to the four cooling towers is considered to be entirely consumptively used.

Three steam boilers are used to provide air humidification at the facility. The project sponsor currently measures and records the makeup water to the boilers on a daily basis. The project sponsor has determined that blowdown water from the boilers is nominal, and therefore, the metered boiler makeup water is considered to be entirely consumptively used.

Commission staff recommends that the project sponsor continue to monitor and record the makeup water to the cooling towers and boilers on a daily basis, and that all measurements be recorded at approximately the same time each day.

The project sponsor has requested a consumptive water use approval of up to 0.084 mgd. Based on an analysis of metered water use records supplied by the project sponsor, Commission staff is recommending approval of the requested quantity. Although the peak-day consumptive water use during 2001 and 2002 was significantly lower than the requested amount, only three of the facility's cooling towers were operating during much of this time period, therefore, the increase should accommodate the peak usage day likely to occur when all four cooling towers are operating. Should the project's future consumptive water use exceed or be expected to exceed 0.084 mgd, the project sponsor must apply for a modification to this docket at that time.

The project's consumptive use of water is subject to water compensation requirements, as per Commission Regulation §803.42. To satisfy these requirements, the project sponsor proposes to make quarterly payments to the Commission in-lieu-of providing actual compensation water.

The project is subject to the Commission's water conservation requirements, as per Commission Regulation §804.20(b).

The project sponsor has paid the appropriate application fee, in accordance with Commission Regulation §803.28, and in accordance with Commission Resolution 98-19, as amended by Commission Resolution 2000-06. The project sponsor has provided all proofs of notification, as required by Commission Regulation §803.25.

The project is physically feasible, does not conflict with or adversely affect the Commission's Comprehensive Plan, and does not adversely influence the present or future use and development of the water resources of the basin.

Compliance Incentive Program

Commission staff has determined that the project sponsor is eligible to participate in the Commission's Compliance Incentive Program (CIP). Therefore, the project sponsor would not be subject to penalties for water consumed in violation of Commission Regulation §803.42 prior to January 1, 2001. In accordance with the CIP, payment to the Commission as a method of compensation for the project's consumptive water use shall be effective and applicable to all consumptive water used by the project beginning January 1, 2001.

Decision

The project's consumptive water use of up to 0.084 mgd is approved pursuant to Article 3, Section 3.10 of the Compact, subject to the following conditions:

- a. The project sponsor shall comply with all Commission regulations, including consumptive water use reporting requirements, as per Commission Regulation §803.42.
- b. The project sponsor shall keep daily records of the project's consumptive water use, and shall report the data to the Commission quarterly, and as otherwise required. Quarterly monitoring reports are due within thirty (30) days after the close of the preceding quarter. The daily quantity of water consumptively used shall be the quantity of makeup water for the four cooling towers and the three steam boilers. The project sponsor shall maintain metering on the makeup water lines, accurate to within five (5) percent.
- c. To satisfy the Commission's current compensation requirements for consumptive water use set forth in Commission Regulation §803.42, the project sponsor shall make quarterly payments to the Commission based on the rate of \$0.14 per 1,000 gallons of water consumptively used by the project. The daily quantity of water consumptively used shall be the quantity of makeup water for the four cooling towers and the three steam boilers. Payment amounts shall be calculated by applying this rate to the daily amount of water used consumptively by the project. Quarterly payments are due and payable within thirty (30) days after the close of the preceding quarter. The rate of payment, after appropriate notice to consumptive users of water using this method of compliance, is subject to change at the Commission's discretion.

d. The project sponsor shall comply with the water conservation requirements specified in Commission Regulation §804.20(b).

e. The project sponsor is eligible to participate in the Commission's Compliance Incentive Program (CIP). Therefore, the project sponsor is not subject to penalties for its prior noncompliance. In accordance with the CIP, payment to the Commission as a method of compensation for the project's consumptive water use shall be effective and applicable to all water consumptively used by the project beginning January 1, 2001. The project sponsor shall provide records of its consumptive water use and make a payment to the Commission based on the rate of \$0.14 per 1,000 gallons of water consumptively used during the period from January 1, 2001, until the effective date of this approval. This payment shall be calculated and included in the first quarterly payment made by the project sponsor in accordance with the requirements of condition (c) above.

f. Commission approval shall not be construed to exempt the project sponsor from obtaining all necessary permits and/or approvals required for the project from other federal, state, or local government agencies having jurisdiction over the project. The Commission reserves the right to modify, suspend, or revoke this action if the project sponsor fails to obtain or maintain such approvals.

g. The Commission reserves the right to inspect or investigate the project facility, and the project sponsor shall allow authorized employees or agents of the Commission, without advance notice or a search warrant, at any reasonable time and upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas where the project is being constructed, operated, or maintained. Such employees or agents shall be authorized to conduct tests or sampling, to take photographs, to perform measurements, surveys, and other tests, to inspect the methods of construction, operation, or maintenance, to inspect all measurement equipment, to audit, examine, and copy books, papers, and records pertinent to any matter under investigation, and to take any other action necessary to assure that the project is constructed, operated, or maintained in accordance with the terms and conditions of this approval or any other rule, regulation, or order of the Commission.

h. If the project sponsor fails to comply with any term or condition of this docket, the Commission may suspend, modify, or revoke its approval of same, and may impose appropriate fines and penalties. Upon written notice by the Commission, the project sponsor shall have thirty (30) days to correct such noncompliance, unless an alternate period is specified in the notice. Nothing herein shall preclude the Commission from exercising its authority to immediately modify, suspend, or revoke this approval where it determines exigent circumstances warrant such action, or from imposing fines and penalties, regardless of the period of noncompliance.

i. The Commission reserves the right to reopen any project docket or issue such additional orders, as may be necessary, to mitigate or avoid adverse impacts or otherwise to protect public health, safety, welfare, or the environment.

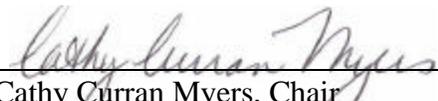
j. Commission approval confers no property rights upon the project sponsor. The securing of all rights necessary and incident to the project sponsor's development and operation of the project shall be the sole and exclusive responsibility of the project sponsor, and this approval shall be subject thereto.

k. This approval is effective until October 9, 2028. The project sponsor shall submit a renewal application by April 9, 2028, and obtain Commission approval prior to continuing operation beyond October 9, 2028.

l. If the project is discontinued for such a period of time and under such circumstances that an abandonment of the project may reasonably be inferred, the Commission may rescind the approval of the project unless a renewal is requested by the project sponsor and approved by the Commission.

By the Commission:

Dated: October 9, 2003



Cathy Curran Myers, Chair
Pennsylvania Commissioner



SUSQUEHANNA RIVER BASIN COMMISSION

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Docket No. 20031003

Approval Date: October 9, 2003

ELK MOUNTAIN SKI RESORT, INC.

Surface-Water Withdrawal of Up to 4.550 mgd, When Available,
from an Unnamed Tributary to the East Branch Tunkhannock Creek, and a
Consumptive Water Use of Up to 1.000 mgd, for Snowmaking,
Herrick Township, Susquehanna County, Pennsylvania

Review Authority

This project is subject to review pursuant to Article 3, Section 3.10 of the Susquehanna River Basin Compact, P.L. 91-575, and Commission Regulations §803.4, relating to projects requiring review and approval, §803.42, relating to the consumptive use of water, and §803.44, relating to surface-water withdrawals. The Commission received the application for the consumptive use of water on June 28, 2001, and the application for the surface-water withdrawal on February 28, 2003.

Description

Purpose. The purpose of the application is to request approval for a surface-water withdrawal and the consumptive use of that water for the production of snow at an existing ski resort.

Location. The project is located in the Middle Susquehanna Subbasin, HUC 02050106, East Branch Tunkhannock Creek Watershed, Herrick Township, Susquehanna County, Pennsylvania.

Project Features. The project sponsor has requested approval for a maximum daily withdrawal of up to 4.550 million gallons per day (mgd) of water, when available, from ponds located in the headwaters of an unnamed tributary to the East Branch Tunkhannock Creek and a consumptive use of that water of up to 1.000 mgd. The project sponsor calculates the project's maximum average 30-day consumptive water use to be 0.254 mgd, and current peak-day consumptive water use to be 0.795 mgd. The current maximum average 30-day surface-water withdrawal is 1.154 mgd, and the peak-day withdrawal is 3.610 mgd.

The primary source of water is an existing withdrawal from a series of ponds located in the headwaters of an unnamed tributary to the East Branch Tunkhannock Creek. Although the

withdrawal predates Commission Regulation §803.44, relating to surface-water withdrawals, the project sponsor has increased its withdrawal by more than 0.100 mgd since November 11, 1995, and, therefore, is subject to the regulation.

The project collects runoff in three off-stream ponds (Ponds 1, 2, and 3) that are connected in series and can be drained into the main storage pond by an underground pipe. The main storage pond was constructed in the 1950s, and is located on an unnamed tributary to the East Branch Tunkhannock Creek. Ponds 1, 2, and 3 were constructed after 1971. The main storage pond is not equipped with a passby device. Commission staff has calculated the surface area of the ponds as follows: Main storage pond, 14.0 acres; Pond 1, 0.41 acres; Pond 2, 0.86 acres; and Pond 3, 1.20 acres.

The project sponsor estimates the current total usable storage capacity of the existing pond system to be approximately 28.0 million gallons, when at full capacity. This should provide approximately 22 days of storage, based on a passby release of 87.3 gallons per minute (gpm) and a maximum 30-day average withdrawal of 1.154 mgd for snowmaking.

Findings

The project is subject to Commission approval and reporting requirements, as per Commission Regulations §803.42 and §803.44.

All water evaporated from storage Ponds 1, 2, and 3, as well as 22 percent of the water withdrawn from the storage ponds and used for snowmaking, is considered to be used consumptively. The snowmaking system is equipped with a meter that measures the quantity of water pumped through the snowmaking system. Water evaporated from the ponds will be calculated by the project sponsor employing a methodology acceptable to the Commission.

The main storage pond (14 acres), as currently configured, predates the Commission's consumptive water use regulation; therefore, the project sponsor is not required to provide compensation for the evaporative losses from this pond.

The project sponsor requested approval for a consumptive water use of up to 1.000 mgd. Based on an analysis of the snowmaking records supplied by the project sponsor and plans for expansion of the ski resort, Commission staff is recommending approval of 1.000 mgd, which is approximately 25 percent above the current peak-day use of 0.795 mgd. This will allow for an anticipated increase in water usage over the 25-year duration of this approval. Should the project's future consumptive water use exceed or be expected to exceed 1.000 mgd, the project sponsor must apply for a modification to this docket at that time.

The project sponsor has requested a surface-water withdrawal of up to 4.550 mgd from the main storage pond that is located on an unnamed tributary to the East Branch Tunkhannock Creek. The current metered pumping system is capable of a maximum withdrawal rate of up to 4,000 gpm.

Overflow from the main storage pond discharges to an unnamed tributary to the East Branch of Tunkhannock Creek, a cold-water fishery (CWF) (Title 25, Chapter 93, Pennsylvania Code). Based on the stream's classification, its geographic location in the watershed, and the anticipated associated fishery of trout and combined species of fish, Commission staff has determined a minimum flow of 25 percent of the annual average daily flow (ADF), or 87.3 gpm, is required at the point of the main pond overflow, during snowmaking operations and during pond refilling periods, to prevent loss of aquatic habitat. According to Commission staff's analysis, pond storage will not be sufficient to meet the project sponsor's snowmaking needs while allowing for the release of water from the dam.

Commission staff recommends, as an interim measure, that the project sponsor allow a release of water equal to the calculated 7-day, 10-year low flow (Q7-10 flow) at the dam outfall of 11.2 gpm from the commencement of annual snowmaking operations until the pond naturally overtops from the spring thaw, pending the results of the water supply study. This interim protective measure shall expire two years from the date of this approval.

The project sponsor should submit its design and a proposed construction schedule for the passby flow device within 60 days following Commission action for review and approval by Commission staff prior to any construction.

Further, Commission staff recommends that the project sponsor investigate alternative water supply options for the site to allow for a passby of at least 25 percent of ADF (87.3 gpm) at all times. In this regard, the project sponsor should prepare a plan to develop alternate sources of water supply and/or develop an adequate amount of storage to meet the snowmaking demands at the site. The plan should be submitted to the Commission for staff's review and approval within six months.

The project sponsor has agreed to Commission staff's calculated pre-1971 consumptive water use of 0.165 mgd for snowmaking and, for purposes of this docket, this quantity of water used for snowmaking is considered "grandfathered" and is exempt from water compensation requirements.

The project's consumptive use of water for snowmaking, in excess of the grandfathered quantity, is subject to water compensation requirements, as per Commission Regulation §803.42. The project's consumptive water use from the evaporative loss resulting from ponds constructed since 1971 also is subject to water compensation requirements, as per Commission Regulation §803.42. To satisfy these requirements, the project sponsor proposes to make quarterly payments to the Commission in-lieu-of providing actual compensation water. The payment will be based on 22 percent of the daily quantity of water used for snowmaking, minus the pre-1971 consumptive use of 0.165 mgd, plus the evaporative loss from Ponds 1, 2, and 3. If the daily grandfathered quantity exceeds the project's calculated daily consumptive water use, that day's consumptive water use is considered to be zero.

The project is subject to water conservation requirements, as per Commission Regulation §804.20(b).

The project sponsor has paid the appropriate application fee in accordance with Commission Regulation §803.28 and in accordance with Commission Resolution 98-19, as amended by Commission Resolution 2000-06. The project sponsor has provided all proofs of notification, as called for in Commission Regulation §803.25.

The project is physically feasible, does not conflict with, or adversely affect, the Commission's Comprehensive Plan, and does not adversely influence the present or future use and development of the water resources of the basin.

Compliance Incentive Program

Commission staff has determined that the project sponsor is eligible to participate in the Commission's Compliance Incentive Program (CIP). Therefore, the project sponsor would not be subject to penalties for water withdrawn and consumed in violation of Commission Regulations §803.42 and §803.44 prior to January 1, 2001. In accordance with the CIP, payment to the Commission as a method of compensation for the project's consumptive water use shall be effective and applicable to all consumptive water used by the project beginning January 1, 2001.

Decision

The project's surface-water withdrawal from the main storage pond on an unnamed tributary to the East Branch Tunkhannock Creek of up to 4.550 mgd, when available, and the consumptive use of water of up to 1.000 mgd are approved pursuant to Article 3, Section 3.10 of the Compact subject to the following conditions:

a. The project sponsor shall comply with all Commission regulations, including consumptive water use reporting requirements, as per Commission Regulation §803.42, and surface-water withdrawal reporting requirements, as per Commission Regulation §803.44.

b. The project sponsor shall keep daily records of the project's consumptive water use, and shall report the data to the Commission quarterly, and as otherwise required. Quarterly monitoring reports are due within thirty (30) days after the close of the preceding quarter. The daily quantity of water consumptively used shall be the quantity of evaporative loss from storage ponds 1, 2, and 3, plus 22 percent of the water pumped to the snowmaking system. The project sponsor shall install and maintain metering on the snowmaking system, accurate to within five (5) percent. Commission staff shall review and approve the method of calculation of evaporative loss from the pond system.

c. The project sponsor shall maintain metering on the surface-water withdrawal, accurate to within five (5) percent, and keep daily records of the project's surface-water withdrawal. The project sponsor shall report the data to the Commission quarterly, and as otherwise required. Quarterly monitoring reports are due within thirty (30) days after the close of the preceding quarter. The project sponsor may propose alternative monitoring to the Commission for staff review and approval.

d. The maximum instantaneous rate of withdrawal from the Main Storage Pond shall not exceed 4,000 gpm.

e. The project sponsor shall immediately initiate a study to investigate alternative water supply options for the site to allow for a passby flow of at least twenty-five (25) percent of ADF to be maintained during snowmaking operations and during pond refill periods. In this regard, the project sponsor shall prepare a plan to develop alternate sources of water supply and/or develop an adequate amount of storage to meet the snowmaking demands at the site. The plan shall be submitted to the Commission within six (6) months from the date of this approval for staff's review and approval. The plan shall be accompanied by the appropriate application(s) needed for the approval of any supplemental sources identified in the plan.

f. The project sponsor shall modify its withdrawal to allow a downstream release of water from the Main Storage Pond of the calculated Q7-10 flow at the dam outfall of 11.2 gpm from the commencement of annual snowmaking operations until the pond naturally overtops from the spring thaw, pending the results of the water supply study. This interim protective measure shall expire two (2) years from the date of this approval.

g. Upon termination of the interim protective measure described in condition (f), the project sponsor shall allow a passby flow at the main pond overflow of not less than twenty-five (25) percent of annual average daily flow, which equals 87.3 gpm. The passby system shall be kept fully functional and free of debris. The Commission reserves the right to inspect the passby flow device structure at any time. The project sponsor may propose an alternative to a passive passby flow device to the Commission for staff review and approval.

h. The project sponsor shall submit its design and a proposed construction schedule for the passby flow measurement device within sixty (60) days of the date of this approval for review and approval by Commission staff prior to any construction. Following approval, the project sponsor shall complete construction in accordance with the approved schedule and shall certify to the Commission that construction has been completed in accordance with the approved design. The passby system shall be kept fully functional and free of debris.

i. To satisfy the Commission's current compensation requirements for consumptive water use set forth in Commission Regulation §803.42, the project sponsor shall make quarterly payments to the Commission based on the rate of \$0.14 per 1,000 gallons of water consumptively used by the project in excess of the grandfathered quantity. The daily quantity of water consumptively used shall be the quantity of evaporative loss from Ponds 1, 2, and 3, plus 22 percent of the quantity pumped to the snowmaking system. Payment amounts shall be calculated by applying this rate to the daily amount of water used consumptively by the project, less the grandfathered quantity of 0.165 mgd. If the daily grandfathered quantity exceeds the project's daily consumptive water use, that day's consumptive water use is considered to be zero. Quarterly payments are due and payable within thirty (30) days after the close of the preceding quarter. The rate of payment, after appropriate notice to consumptive users of water using this method of compliance, is subject to change at the Commission's discretion.

j. The project sponsor shall comply with the water conservation requirements specified in Commission Regulation §804.20(b).

k. The project sponsor is eligible to participate in the Commission's Compliance Incentive Program (CIP). Therefore, the project sponsor is not subject to penalties for its prior noncompliance. In accordance with the CIP, payment to the Commission as a method of compensation for the project's consumptive water use shall be effective and applicable to all water consumptively used by the project beginning January 1, 2001. The project sponsor shall provide records of its consumptive water use and make a payment to the Commission based on the rate of \$0.14 per 1,000 gallons of water consumptively used in excess of the grandfathered quantity of 0.165 mgd during the period from January 1, 2001, until the effective date of this approval. This payment shall be calculated and included in the first quarterly payment made by the project sponsor in accordance with the requirements of condition (i) above.

l. Commission approval shall not be construed to exempt the project sponsor from obtaining all necessary permits and/or approvals required for the project from other federal, state, or local government agencies having jurisdiction over the project. The Commission reserves the right to modify, suspend, or revoke this action if the project sponsor fails to obtain or maintain such approvals.

m. The Commission reserves the right to inspect or investigate the project facility, and the project sponsor shall allow authorized employees or agents of the Commission, without advance notice or a search warrant, at any reasonable time and upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas where the project is being constructed, operated, or maintained. Such employees or agents shall be authorized to conduct tests or sampling, to take photographs, to perform measurements, surveys, and other tests, to inspect the methods of construction, operation, or maintenance, to inspect all measurement equipment, to audit, examine, and copy books, papers, and records pertinent to any matter under investigation, and to take any other action necessary to assure that the project is constructed, operated, or maintained in accordance with the terms and conditions of this approval or any other rule, regulation, or order of the Commission.

n. If the project sponsor fails to comply with any term or condition of this docket, the Commission may suspend, modify, or revoke its approval of same, and may impose appropriate fines and penalties. Upon written notice by the Commission, the project sponsor shall have thirty (30) days to correct such noncompliance, unless an alternate period is specified in the notice. Nothing herein shall preclude the Commission from exercising its authority to immediately modify, suspend, or revoke this approval where it determines exigent circumstances warrant such action, or from imposing fines and penalties, regardless of the period of noncompliance.

o. The Commission reserves the right to reopen any project docket or issue such additional orders, as may be necessary, to mitigate or avoid adverse impacts or otherwise to protect public health, safety, welfare, or the environment.

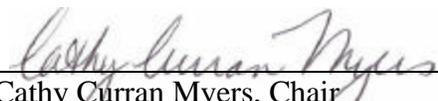
p. Commission approval confers no property rights upon the project sponsor. The securing of all rights necessary and incident to the project sponsor's development and operation of the project shall be the sole and exclusive responsibility of the project sponsor, and this approval shall be subject thereto.

q. This approval is effective until October 9, 2028. The project sponsor shall submit a renewal application by April 9, 2028, and obtain Commission approval prior to continuing operation beyond October 9, 2028.

r. If the project is discontinued for such a period of time and under such circumstances that an abandonment of the project may reasonably be inferred, the Commission may rescind the approval of the project unless a renewal is requested by the project sponsor and approved by the Commission.

By the Commission:

Dated: October 9, 2003



Cathy Curran Myers, Chair
Pennsylvania Commissioner



SUSQUEHANNA RIVER BASIN COMMISSION

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Docket No. 20020404

Approval Date: April 11, 2002

Modification Date: October 9, 2003

LIBERTY VALLEY COUNTRY CLUB

Consumptive Water Use of Up to 0.150 mgd, for Golf Course Irrigation,
Liberty Township, Montour County, Pennsylvania

Review Authority

This project is subject to review pursuant to Article 3, Section 3.10 of the Susquehanna River Basin Compact, P.L. 91-575, and Commission Regulations §803.4, relating to projects requiring review and approval, and §803.42, relating to the consumptive use of water. The current modification request was received on November 6, 2002.

Description

Purpose. The Commission originally approved the project on April 11, 2002, as Docket No. 20020404 (docket). As approved, the project sponsor was authorized to consumptively use up to 0.098 million gallons per day (mgd) of water for the irrigation of greens, tees, and fairways at the 18-hole golf course, subject to conditions enumerated in the docket. The project sponsor has requested approval for an increase in the consumptive use of water from 0.098 mgd to a maximum daily use of 0.150 mgd. This docket modification approves the requested increase.

Project Features. The maximum daily consumptive water use approved in the docket was based on limited, estimated water use data, and did not accurately account for the water use by the irrigation system. A meter was installed on the irrigation system in July 2002. During the 2002 irrigation season, the project sponsor exceeded the approved maximum daily consumptive water use on 5 days. When notified of the exceedences of its approved quantity of consumptive water use, the project sponsor submitted this modification request.

There are two on-site wells and two separate pumping stations that can be used for irrigation at the golf course. Ground water withdrawn from the project's primary well is discharged into an unnamed tributary to Mauses Creek, immediately upstream from Pond 15, and then flows into Pond 15. Outfall from this on-stream pond returns to the unnamed tributary to Mauses Creek and flows downstream to the project's primary irrigation pond (Pond 13), which also is an on-stream pond. The primary pumping station pumps water from Pond 13 to the entire irrigation system.

Ground water can be withdrawn from the secondary well to fill an off-stream pond, Pond 3. When the project was originally approved, surface water also was being withdrawn from the unnamed tributary to Mauses Creek and conveyed to this off-stream pond. The project's second pumping station can be used to pump water from Pond 3 to irrigate the front 9 holes of the golf course. Since the date of the original approval, the surface-water intake has been disconnected, and the project sponsor reports that the secondary well and pumping station are no longer being used. The entire golf course currently is being irrigated using only the primary pumping station, which draws water from Pond 13.

Based on irrigation data for the years 2002 and 2003 submitted by the project sponsor, Commission staff calculates the project's maximum average 30-day consumptive water use to be 0.070 mgd, and current peak-day consumptive water use to be 0.100 mgd. The single peak-day use during 2002 was significantly lower than the design demand of the irrigation system.

Findings

The project sponsor has requested approval for a consumptive water use of up to 0.150 mgd. Based on an analysis of irrigation records supplied by the project sponsor and design data for the irrigation system installed at the course, Commission staff is recommending approval of the requested quantity. Although the single peak-day use during 2002 was significantly lower than the design demand of the irrigation system, the requested amount is consistent with the approved quantities of similar golf courses in the Susquehanna River Basin. The increase should accommodate the peak usage days likely to occur over the 25-year duration of this approval. Should the project's future consumptive water use exceed or be expected to exceed 0.150 mgd, the project sponsor must apply for a modification to this docket at that time.

Since Pond 3 reportedly is no longer used as an irrigation pond, the project sponsor is not required to provide compensation for evaporative losses from this pond. As such, the project sponsor is required to provide compensation for evaporative losses from only Pond 13 and Pond 15, which Commission staff calculates have a total surface area of 0.30 acres.

While the project's recent consumptive water use has been in noncompliance with Commission regulations, there have been no adverse impacts associated with the consumptive use, and the project sponsor has cooperated with Commission staff during its review. The project sponsor has paid the consumptive water use fees for the water used in excess of the original approval amount. Commission staff recommends a waiver of fines and penalties associated with this noncompliance.

The original Commission approval required the project sponsor to install and maintain metering on the irrigation system and on the two on-site wells within 60 days of the date of the approval. The project sponsor has installed a meter on the primary well and also on the primary pumping station to measure the quantity of water pumped to the irrigation system. Meters have not been installed on the project's secondary pumping station or well, and their use has been reportedly discontinued. Due to these circumstances, Commission staff recommends that the project sponsor not be subject to penalty for its failure to install the required meters. However,

because the secondary well remains equipped with a pump, piping and electricity, and could potentially be utilized, Commission staff recommends that the well and secondary pumping station be either abandoned employing a methodology acceptable to the Commission or each be equipped with a meter within 60 days of this approval. Additionally, Commission staff recommends that the project sponsor apply for Commission approval prior to resuming use of either the secondary pumping station or well.

The original Commission approval also required that the project sponsor maintain a passby flow at the intake structure for Pond 3 on the unnamed tributary to Mouses Creek. The project sponsor has not installed a passby flow device at the intake structure, but has disconnected the pipe intake and no longer maintains a surface-water withdrawal at this location. Commission staff finds that the project sponsor has abandoned its surface water withdrawal from the unnamed tributary to Mouses Creek and that it is no longer required to maintain a passby flow at the intake structure for Pond 3 on the unnamed tributary to Mouses Creek. Further, Commission staff recommends that the project sponsor obtain Commission approval prior to resuming a surface-water withdrawal from this or any new location on the stream.

The project sponsor operates one well and captures stormwater runoff in two on-stream storage ponds (Ponds 13 and 15) in the headwaters of an unnamed tributary to Mouses Creek with no passby flow currently maintained at the site. Commission staff has recalculated the required passby flow to address the recent modification to the irrigation system (sources and quantities). Commission staff recommends a passby flow from the primary irrigation pond (Pond 13) on the unnamed tributary to Mouses Creek of 37 percent of annual average daily flow (ADF), which equals 0.088 cubic feet per second (cfs), or 40 gallons per minute (gpm). Because the project is using an on-stream pond as its source of water, the passby criteria must be modified to accommodate conditions when natural streamflow is less than 37 percent ADF. Therefore, Commission staff recommends that the project sponsor allow a downstream passby of water from the primary irrigation pond (Pond 13) of 40 gpm, or an amount equal to the inflow of the stream to the upstream on-stream pond (Pond 15), when streamflow is less than 40 gpm. Inflow into Pond 15 should be measured upstream from the primary well's discharge location in the stream. The project sponsor should submit its design and a proposed construction schedule within 60 days for review and approval by Commission staff prior to any construction.

While the project has been in noncompliance with the passby requirements established by the original Commission approval, there have been no known adverse impacts associated with the required passby flow not being properly maintained. Additionally, the project sponsor has cooperated with Commission staff during its review of the modification request. Due to these circumstances, Commission staff recommends that the project sponsor not be subject to penalty for its prior noncompliance.

Adherence to the revised passby flow criteria will necessitate that the project sponsor rely on its wells during periods of low flow. Based on water use data submitted by the project sponsor, Commission staff finds that the wells currently are utilized at less than 100,000 gpd on a 30-day average and, thus, the project's ground-water withdrawal is not subject to review and approval under Commission Regulation §803.43 as a result of this modification. If the ground-water withdrawal exceeds or is expected to exceed 100,000 gpd on a 30-day average (3,000,000

gallons in any consecutive 30-day period), the project sponsor must submit a ground-water withdrawal application to the Commission.

The project sponsor has paid the appropriate application fee pursuant to Commission Regulation §803.28 and in accordance with Commission Resolution 98-19, as amended by Commission Resolution 2000-06. The project sponsor has provided all proofs of notification, as required by Commission Regulation §803.25.

Based on Commission Regulation §803.30(a), the prior docket approval is effective until April 11, 2027. Commission staff recommends the duration of this docket modification be consistent with the term of the prior docket approval.

Decision

Commission Docket No. 20020404, as approved April 11, 2002, is hereby amended and the project's consumptive water use of up to 0.150 mgd is approved pursuant to Article 3, Section 3.10 of the Compact subject to the following conditions:

a. The project sponsor shall comply with all Commission regulations, including consumptive water use reporting requirements, as per Commission Regulation §803.42.

b. The project sponsor shall keep daily records of the project's consumptive water use, and shall report the data to the Commission quarterly, and as otherwise required. Quarterly monitoring reports are due within thirty (30) days after the close of the preceding quarter. The daily quantity of water consumptively used shall be the quantity of evaporative loss from Pond 13 and Pond 15, plus the quantity used for golf course irrigation. The project sponsor shall maintain metering on the irrigation system, accurate to within five (5) percent. Commission staff shall review and approve the method of calculation of evaporative loss from the storage ponds.

c. The project sponsor shall maintain metering on the primary well, accurate to within five (5) percent, to measure its ground-water withdrawal. The project sponsor shall keep daily records of the project's ground-water withdrawal, and shall report the data to the Commission quarterly, and as otherwise required. Quarterly monitoring reports are due within thirty (30) days after the close of the preceding quarter. If the ground-water withdrawal exceeds the threshold specified in Commission Regulation §803.43, the project sponsor shall submit the appropriate application for review and approval by the Commission.

d. Within sixty (60) days from the date of this approval, the project sponsor shall either abandon the pumping station and secondary well employing a methodology acceptable to the Commission, or install and maintain a meter on the well and on the pumping station, accurate to within five (5) percent, to measure the ground-water withdrawal and the water pumped to the irrigation system. Additionally, the project sponsor shall apply for Commission approval prior to resuming use of either the secondary pumping station or well.

e. The project sponsor shall allow a downstream passby of water from Pond 13, located on the unnamed tributary to Mauses Creek, of 0.088 cfs (40 gpm), or when streamflow into

Pond 15 is less than 40 gpm, an amount equal to the total inflow of the stream to Pond 15. The project sponsor shall install flow measurement devices that measure the inflow to Pond 15 and the outflow of Pond 13. The project sponsor shall keep daily records of the inflow and outflow of the pond, and shall report the data to the Commission quarterly, and as otherwise required. Quarterly monitoring reports are due within thirty (30) days after the close of the preceding quarter.

f. The project sponsor shall submit its design and a proposed construction schedule for the flow measurement devices cited in condition (e) above within sixty (60) days of the date of this approval for review and approval by Commission staff prior to any construction. Following approval, the project sponsor shall complete construction in accordance with the approved schedule, and shall provide to the Commission documentation that construction has been completed. The passby system shall be kept fully functional and free of debris.

g. The project sponsor shall obtain Commission approval prior to initiating a surface-water withdrawal from the former location or any new location on the unnamed tributary to Mauses Creek.

h. The Commission waives fines and penalties associated with the project sponsor's consumptive water use, metering, and minimum flows found to be in noncompliance with Commission Regulation §803.42.

i. The Commission reserves the right to inspect or investigate the project facility, and the project sponsor shall allow authorized employees or agents of the Commission, without advance notice or a search warrant, at any reasonable time and upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas where the project is being constructed, operated, or maintained. Such employees or agents shall be authorized to conduct tests or sampling, to take photographs, to perform measurements, surveys, and other tests, to inspect the methods of construction, operation, or maintenance, to inspect all measurement equipment, to audit, examine, and copy books, papers, and records pertinent to any matter under investigation, and to take any other action necessary to assure that the project is constructed, operated, or maintained in accordance with the terms and conditions of this approval or any other rule, regulation, or order of the Commission.

j. If the project sponsor fails to comply with any term or condition of this docket, the Commission may suspend, modify, or revoke its approval of same, and may impose appropriate fines and penalties. Upon written notice by the Commission, the project sponsor shall have thirty (30) days to correct such noncompliance, unless an alternate period is specified in the notice. Nothing herein shall preclude the Commission from exercising its authority to immediately modify, suspend, or revoke this approval where it determines exigent circumstances warrant such action, or from imposing fines and penalties, regardless of the period of noncompliance. This condition hereby rescinds and replaces condition (j) of the original docket.

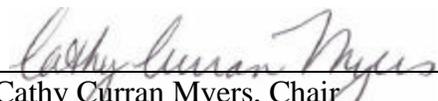
k. All other conditions in Commission Docket No. 20020404 not inconsistent herewith shall remain effective.

l. Based on Commission Regulation §803.30(a), this approval is effective until April 11, 2027. The duration of this docket modification is in accordance with the term of the prior docket approval. The project sponsor shall submit a renewal application by October 11, 2026, and obtain Commission approval prior to continuing operation beyond April 11, 2027.

m. If the project is discontinued for such a period of time and under such circumstances that an abandonment of the project may reasonably be inferred, the Commission may rescind the approval of the project unless a renewal is requested by the project sponsor and approved by the Commission.

By the Commission:

Dated: October 9, 2003



Cathy Curran Myers, Chair
Pennsylvania Commissioner



SUSQUEHANNA RIVER BASIN COMMISSION

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Docket No. 20031005

Approval Date: October 9, 2003

JUNIATA COLLEGE

Consumptive Water Use of up to 0.060 mgd,
for Institutional Use,
Huntingdon Borough, Huntingdon County, Pennsylvania

Review Authority

This project is subject to review pursuant to Article 3, Section 3.10 of the Susquehanna River Basin Compact, P.L. 91-575, and Commission Regulations §803.4, relating to projects requiring review and approval, and §803.42, relating to the consumptive use of water. The Commission received the application on July 2, 2001.

Description

Purpose. The purpose of the application is to request approval for the consumptive use of water at Juniata College (the College) associated with the irrigation of athletic fields and lawn areas, evaporative cooling for facility air conditioning, and steam losses from facility heating.

Location. The project is located in the Juniata Subbasin, HUC 02050304, Juniata River Watershed, Huntingdon Borough, Huntingdon County, Pennsylvania.

Project Features. The project sponsor has requested approval for the consumptive water use of up to 0.060 million gallons per day (mgd). Huntingdon Borough Water Department (HBWD) provides water to the College for the campus potable water system, a portion of which is consumed for the irrigation of athletic fields, campus lawn areas and ornamental plantings, for building air-conditioning (via chiller cooling towers), and for building heating (via steam losses). The College was founded in 1876.

During 2001, a central air conditioning system for core campus buildings was installed at Brumbaugh Science Center that utilizes two chiller cooling towers.

Prior to 1971, a central steam plant consisting of three boilers was installed in the Facilities Services Building that continues to provide steam heat to most campus buildings. Additionally, prior to 1971, the central steam plant furnished hot water to campus buildings and was operated on a year round basis. This use was discontinued in 2000 when gas and electric hot

water heaters were installed in campus buildings, and at present, the central steam plant operates only during the heating season.

Currently, water supplied by HBWD averages 0.095 mgd on a yearly basis, and is metered at 35 locations as it enters the campus system. A recently-constructed biological research pond along Muddy Run is supplied water solely from local drainage and stormwater runoff.

Presently, the College's peak-day consumptive water use is estimated to be 0.050 mgd. The maximum 30-day average consumptive water use is estimated to be 0.035 mgd. During these peak periods, cooling tower makeup and athletic field turf and campus lawn irrigation comprise almost all of the College's consumptive water use.

All of the wastewater generated from the College is discharged to the sanitary sewer system at 32 unmetered outfalls and is treated in the Huntingdon Borough Sewer Department wastewater treatment facility. Sewer flow and sewer billing is estimated based on metered water supplied to individual buildings.

Findings

The project is subject to Commission approval and reporting requirements as per Commission Regulation §803.42.

The College obtains the water for its campus potable system from a public supplier. This water is metered at 35 locations on a monthly basis as it enters the campus system. Wastewater generated on the campus leaves the campus through 32 unmetered outfalls.

Current maximum daily consumptive water use is estimated to be 0.050 mgd during peak summer days, based on design calculations of makeup water requirements for the chiller cooling towers and estimated application rates times hours irrigated for irrigation of athletic fields and central (core) campus lawn areas. Steam plant boiler feed makeup occurs only during the heating season. Consumptive water use resulting from the irrigation of athletic fields and lawn areas, and from chiller cooling tower makeup commonly occurs during the period from May 16 through September 15 annually. Commission staff has determined that consumptive water use resulting from the irrigation of ornamental plantings is of a nominal amount.

The three categories that comprise the College's consumptive water use are boiler makeup water at the steam plant, makeup water for chiller cooling towers, and athletic field and campus lawn irrigation. All of these water uses are considered to be entirely consumptively used.

The project sponsor has agreed to continue daily monitoring of the metered use of makeup water to the two chiller cooling towers for the central air-conditioning system, and to continue daily monitoring of the metered use of boiler feed makeup water to the steam plant. Additionally, beginning with the 2004 irrigation season, the project sponsor has agreed to meter

and monitor all use of water for irrigating athletic fields and lawn areas in the core campus area on a daily basis.

The project sponsor was consumptively using water at the College before January 23, 1971, the effective date of the Commission's consumptive water use regulation (Commission Regulation §803.42.) The project sponsor has agreed to Commission staff's calculated pre-1971 consumptive water use for the project of 0.0225 mgd, and for purposes of this docket, this quantity of water is considered "grandfathered" and is exempt from water compensation requirements.

The project's consumptive use of water in excess of the grandfathered quantity is subject to water compensation requirements, as per Commission Regulation §803.42. To satisfy these requirements, the project sponsor proposes to make quarterly payments to the Commission in lieu of providing actual compensation water or discontinuing usage.

The project sponsor has proposed a spreadsheet accounting procedure quantifying the three categories of consumptive water use for quarterly reporting to the Commission. First, daily metered usage of irrigation at all athletic fields and the core campus lawn area will be summed to obtain the total daily irrigation usage.

Second, the metered makeup water requirement for the two chiller cooling towers will be monitored daily to obtain the daily quantity of water consumptively used for building air conditioning. Third, boiler makeup water at the steam plant, when in use, will be metered and reported daily.

After summing the daily consumptive water use from these three categories, the project's daily grandfathered consumptive water use of 0.0225 mgd is subtracted from the total daily consumptive water use. If the daily grandfathered amount exceeds the project's calculated daily consumptive water use, that day's consumptive water use is considered to be zero. Staff recommends approval of the project sponsor's proposed spreadsheet accounting procedure for use in calculating daily consumptive water use for the project. The quantities of all three categories of consumptive water use will be based on daily-metered amounts.

The project sponsor has requested an approval of up to 0.060 mgd of consumptive water use based on an expected 25 percent increase in the project's future irrigation and chiller cooling tower makeup water requirements. Other project consumptive water uses are expected to remain at present usage rates. Currently, maximum daily consumptive water use reaches 0.050 mgd during peak summer days. Should the project's future consumptive water use exceed 0.060 mgd, the project sponsor must apply for a modification to this docket at that time.

The project is subject to water conservation requirements as per Commission Regulation §804.20 (a) and (c).

The project sponsor has paid the appropriate application fee, pursuant to Commission Regulation §803.28 and in accordance with Commission Resolution 98-19, as amended by

Commission Resolution 2000-06. The project sponsor has provided all other proofs of notification as called for in Commission Regulation §803.25.

The project is physically feasible, does not conflict with or adversely affect the Commission's Comprehensive Plan, and does not adversely influence the present or future use and development of the water resources of the basin.

Compliance Incentive Program

Commission staff has determined that the project sponsor is eligible to participate in the Commission's Compliance Incentive Program (CIP). Therefore, the project sponsor would not be subject to penalties for water consumed in violation of Commission Regulation §803.42 prior to January 1, 2001. In accordance with the CIP, payment to the Commission as a method of compensation for the project's consumptive water use shall be effective and applicable to all consumptive water used by the project beginning January 1, 2001.

Decision

The project's consumptive water use of up to 0.060 mgd is approved pursuant to Article 3, Section 3.10 of the Compact subject to the following conditions:

a. The project sponsor shall comply with all Commission regulations, including consumptive water use reporting requirements as per Commission Regulation §803.42.

b. Prior to May 2004, the project sponsor shall install and then maintain meters, accurate to within five (5) percent, on all athletic field and core campus lawn irrigation systems. The project sponsor may propose alternative irrigation monitoring to the Commission for staff review and approval.

c. The project sponsor shall keep daily records of the project's consumptive water use, and shall report the data to the Commission quarterly, and as otherwise required. Quarterly monitoring reports are due within thirty (30) days after the close of the preceding quarter. The daily quantity of water consumptively used shall be the quantity used for irrigation at the athletic fields and core campus lawn, plus makeup water to the chiller cooling towers and boilers at the steam plant. The project sponsor shall maintain metering on the makeup water to the chiller cooling towers and the boilers at the steam plant, accurate to within five (5) percent.

d. To satisfy the Commission's current compensation requirements for consumptive water use set forth in Commission Regulation §803.42, the project sponsor shall make quarterly payments to the Commission based on the rate of \$0.14 per 1,000 gallons of water consumptively used by the project in excess of the grandfathered quantity. The daily quantity of water consumptively used shall be the quantity used for irrigation at the athletic fields and core campus lawn, plus makeup water to the chiller cooling towers and boilers at the steam plant. Payment amounts shall be calculated by applying this rate to the daily amount of water used consumptively by the project, less the grandfathered quantity of 0.0225 mgd. If the daily grandfathered quantity exceeds the project's daily consumptive water use, that day's

consumptive water use is considered to be zero. Quarterly payments are due and payable within thirty (30) days after the close of the preceding quarter. The rate of payment, after appropriate notice to consumptive users of water using this method of compliance, is subject to change at the Commission's discretion.

e. The project sponsor shall comply with the water conservation requirements specified in Commission Regulation §804.20(a) and (c).

f. The project sponsor is eligible to participate in the Commission's Compliance Incentive Program (CIP). Therefore, the project sponsor is not subject to penalties for its prior noncompliance. In accordance with the CIP, payment to the Commission as a method of compensation for the project's consumptive water use shall be effective and applicable to all water consumptively used by the project beginning January 1, 2001. The project sponsor shall provide records of its consumptive water use and make a payment to the Commission based on the rate of \$0.14 per 1,000 gallons of water consumptively used in excess of the grandfathered quantity of 0.0225 mgd during the period from January 1, 2001, until the effective date of this approval. This payment shall be calculated and included in the first quarterly payment made by the project sponsor in accordance with the requirements of condition (d) above.

g. Commission approval shall not be construed to exempt the project sponsor from obtaining all necessary permits and/or approvals required for the project from other federal, state, or local government agencies having jurisdiction over the project. The Commission reserves the right to modify, suspend, or revoke this action if the project sponsor fails to obtain or maintain such approvals.

h. The Commission reserves the right to inspect or investigate the project facility, and the project sponsor shall allow authorized employees or agents of the Commission, without advance notice or a search warrant, at any reasonable time and upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas where the project is being constructed, operated, or maintained. Such employees or agents shall be authorized to conduct tests or sampling, to take photographs, to perform measurements, surveys, and other tests, to inspect the methods of construction, operation, or maintenance, to inspect all measurement equipment, to audit, examine, and copy books, papers, and records pertinent to any matter under investigation, and to take any other action necessary to assure that the project is constructed, operated, or maintained in accordance with the terms and conditions of this approval or any other rule, regulation, or order of the Commission.

i. If the project sponsor fails to comply with any term or condition of this docket, the Commission may suspend, modify, or revoke its approval of same, and may impose appropriate fines and penalties. Upon written notice by the Commission, the project sponsor shall have thirty (30) days to correct such noncompliance, unless an alternate period is specified in the notice. Nothing herein shall preclude the Commission from exercising its authority to immediately modify, suspend, or revoke this approval where it determines exigent circumstances warrant such action, or from imposing fines and penalties, regardless of the period of noncompliance.

j. The Commission reserves the right to reopen any project docket or issue such additional orders, as may be necessary, to mitigate or avoid adverse impacts or otherwise to protect public health, safety, welfare, or the environment.

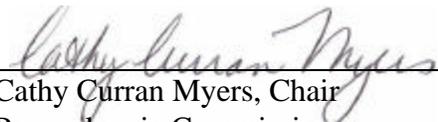
k. Commission approval confers no property rights upon the project sponsor. The securing of all rights necessary and incident to the project sponsor's development and operation of the project shall be the sole and exclusive responsibility of the project sponsor, and this approval shall be subject thereto.

l. This approval is effective until October 9, 2028. The project sponsor shall submit a renewal application by April 9, 2028, and obtain Commission approval prior to continuing operation beyond October 9, 2028.

m. If the project is discontinued for such a period of time and under such circumstances that an abandonment of the project may reasonably be inferred, the Commission may rescind the approval of the project unless a renewal is requested by the project sponsor and approved by the Commission.

By the Commission:

Dated: October 9, 2003



Cathy Curran Myers, Chair
Pennsylvania Commissioner



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Docket No. 20031006

Approval Date: October 9, 2003

SPORTSMAN'S GOLF CLUB

Consumptive Water Use of Up to 0.300 mgd, for Golf Course Irrigation,
Lower Paxton Township, Dauphin County, Pennsylvania

Review Authority

This project is subject to review pursuant to Article 3, Section 3.10 of the Susquehanna River Basin Compact, P.L. 91-575, and Commission Regulations §803.4, relating to projects requiring review and approval, and §803.42, relating to the consumptive use of water. The Commission received the application on August 14, 2000.

Description

Purpose. The purpose of the application is to request approval for the consumptive use of water for irrigation of greens, tees, and fairways at an existing 18-hole golf course.

Location. The project is located in the Lower Susquehanna Subbasin, HUC 02050305, Paxton Creek Watershed, Lower Paxton Township, Dauphin County, Pennsylvania.

Project Features. The project sponsor has requested approval for the consumptive use of water of up to 0.300 million gallons per day (mgd) for golf course irrigation. Based on irrigation data submitted by the project sponsor for part of the year 2002, the project has a maximum average 30-day consumptive use of water of 0.144 mgd, and a current peak-day consumptive water use of 0.250 mgd.

The project's primary sources of water are three ponds (Ponds 1, 2, and 3) and irrigation water is withdrawn from Pond 3 (an off-stream storage pond) that is interconnected to Ponds 1 and 2 (also off-stream ponds) by 24-inch piping. The ponds drain by gravity west to east, beginning at the eighteenth green and crossing the first and sixteenth fairways of the golf course. The ponds receive water from Wells 1 and 2 and some surface drainage.

The project began operating in 1965, and has been in continuous operation since that time. The irrigation of greens, tees, and fairways began in 1965. Water is withdrawn from Pond 3 by two 50-horsepower electric pumps (840 gallons per minute (gpm) combined) and is pumped

to the irrigation system. The project sponsor has withdrawn water from the storage pond over the life of the project.

The three storage ponds have a total surface area of approximately 1.75 acres. The ponds were constructed in the 1960s. Water is withdrawn from Wells 1 and 2, and discharged to the ponds, as needed, for the irrigation system. The total pumping capacity of the two wells, as reported by the project sponsor, is 120 gpm. The ground-water withdrawal for the irrigation system is not metered.

Well 1 was drilled in January 1999 as an 8-inch diameter, open rock well to a total depth of 140 feet. The installed pump has a rated capacity of 85 gpm (0.122 mgd). Well 2 was drilled in the 1960s as a 6-inch diameter, open rock well to a total depth of 80 feet. The installed pump has a rated capacity of 30 gpm (0.043 mgd). There are two additional wells on the property. Well 3 was drilled in the early to mid 1970s as a 6-inch diameter, open rock well to a total depth of 60 feet. Information from the project sponsor indicates the well was operated at 30 gpm (0.043 mgd). A new 60 gpm pump was installed in 2001; however, the project sponsor indicates that Well 3 currently is not used as a source of supply. Well 4 is located on the property east of the ponds. Well 4 was drilled in 2000 as an 8-inch diameter, open rock well to a depth of 300 feet. Well 4 has no pump installed, and had a reported yield of 20 gpm.

The project sponsor has calculated a maximum storage capacity for the storage ponds to be approximately 3.8 million gallons, which is sufficient storage for approximately 26 days of irrigation, based on the maximum average 30-day use of 0.144 mgd.

Findings

The project is subject to Commission approval and reporting requirements, as per Commission Regulation §803.42.

All water withdrawn from the storage ponds and used for golf course irrigation is considered to be used consumptively. The irrigation system is equipped with a meter that measures the quantity of water withdrawn from Pond 3. In accordance with the Commission's consumptive water use reporting requirements, Commission staff recommends that the project sponsor maintain the meter on the pumping station to measure the quantity of water pumped from the pond to the irrigation system. The storage ponds predate the Commission's consumptive use regulation; therefore, the project sponsor is not required to provide compensation for the evaporative losses from the ponds.

The project sponsor has requested a consumptive water use approval of up to 0.300 mgd. Based on an analysis of irrigation records supplied by the project sponsor, Commission staff is recommending approval of up to 0.300 mgd. Should the project's future consumptive water use exceed or be expected to exceed 0.300 mgd, the project sponsor must apply for a modification to this docket at that time.

Commission staff has determined the pre-1971 consumptive water use by the project sponsor to be 0.065 mgd and, for purposes of this docket, this quantity of water is considered "grandfathered" and is exempt from water compensation requirements.

The project's consumptive use of water in excess of the grandfathered quantity is subject to water compensation requirements, as per Commission Regulation §803.42. To satisfy these requirements, the project sponsor proposes to make quarterly payments to the Commission in-lieu-of providing actual compensation water. The payment will be based on the daily quantity of water used for irrigation minus the pre-1971 consumptive use of 0.065 mgd. If the daily grandfathered quantity exceeds the project's daily consumptive water use, that day's consumptive water use is considered to be zero.

The project's primary sources of water for the three storage ponds (Ponds 1, 2, and 3) are two wells (Wells 1 and 2). A third well is available but is not used, according to the project sponsor. A fourth well is not presently equipped with a pump. The project's ground-water withdrawal is not metered. Since the project sponsor currently does not meter the actual quantity of ground water withdrawn, and the wells are capable of producing more than 100,000 gpd, Commission staff recommends that the project sponsor install metering to provide to the Commission documentation of the well usage.

Commission staff has calculated a maximum storage capacity for the storage ponds to be approximately 3.8 million gallons, which is sufficient storage for approximately 26 days of irrigation, based on the maximum average 30-day use of 0.144 mgd.

The project is subject to water conservation requirements, as per Commission Regulation §804.20(c).

The project sponsor has paid the appropriate application fee in accordance with Commission Regulation §803.28 and in accordance with Commission Resolution 98-19, as amended by Commission Resolution 2000-06. The project sponsor has provided all proofs of notification, as required by Commission Regulation §803.25.

The project is physically feasible, does not conflict with or adversely affect the Commission's Comprehensive Plan, and does not adversely influence the present or future use and development of the water resources of the basin.

Compliance Incentive Program

The project sponsor submitted the necessary application to participate in the Commission's Compliance Incentive Program (CIP). However, the project sponsor failed to comply with application procedures and to cooperate with the repeated requests by Commission staff to provide information required to complete a review of the project. Based on the failure to comply with Commission directives, the Commission acted on April 10, 2003, to revoke the project sponsor's eligibility to participate in the Compliance Incentive Program. Accordingly, based on both the present and prior noncompliance, the project will be subject to such payments, and to such orders and civil penalty assessments, as the Commission deems appropriate.

Commission staff, therefore, recommends that the Commission levy a civil penalty upon Sportsman's Golf Club in the amount of \$30,000 for the violations of the Commission's regulations. Further, Commission staff recommends that the Commission reserve the right to assess additional penalties in the event it is determined that Sportsman's Golf Club's noncompliant water use has caused environmental harm.

Decision

The project's consumptive water use of up to 0.300 mgd is approved pursuant to Article 3, Section 3.10 of the Compact subject to the following conditions:

a. The project sponsor shall comply with all Commission regulations, including consumptive water use reporting requirements, as per Commission Regulation §803.42.

b. The project sponsor shall keep daily records of the project's consumptive water use, and shall report the data to the Commission quarterly, and as otherwise required. Quarterly monitoring reports are due within thirty (30) days after the close of the preceding quarter. The daily quantity of water consumptively used shall be the quantity pumped to the irrigation system. The project sponsor shall maintain metering on the irrigation system, accurate to within five (5) percent.

c. Within sixty (60) days from the date of this approval, the project sponsor shall install and maintain metering on the on-site wells, accurate to within five (5) percent, to measure its ground-water withdrawal. The project sponsor shall keep daily records of the project's ground-water withdrawal and shall report the data to the Commission quarterly, and as otherwise required. Quarterly monitoring reports are due within thirty (30) days after the close of the preceding quarter. The project sponsor may propose alternative monitoring to the Commission for staff review and approval. If the ground-water withdrawal exceeds the threshold contained in Commission Regulation §803.43, the project sponsor shall submit the appropriate application for review and approval by the Commission. The Commission reserves the right to inspect all measurement equipment and audit all measurement records.

d. To satisfy the Commission's current compensation requirements for consumptive water use set forth in Commission Regulation §803.42, the project sponsor shall make quarterly payments to the Commission based on the rate of \$0.14 per 1,000 gallons of water consumptively used by the project in excess of the grandfathered quantity of 0.065 mgd. The daily quantity of water consumptively used shall be the quantity pumped to the irrigation system. Payments shall be made quarterly and shall be calculated by applying this rate to the daily amount of water consumptively used by the project during the preceding calendar quarter. Quarterly payments are due and payable within thirty (30) days after the close of the preceding quarter. The rate of payment, after appropriate notice to consumptive users of water using this method of compliance, is subject to change at the Commission's discretion.

e. The project sponsor shall comply with Commission water conservation requirements, as per Commission Regulation §804.20(c).

f. The project sponsor is not eligible to participate in the CIP. Pursuant to Section 15.17 of the Compact and its implementing regulations, the Commission levies a civil penalty upon Sportsman's Golf Club in the amount of \$30,000 for the violations of Commission regulations, which shall be tendered to the Commission within 45 days from the date hereof. Further, the Commission reserves the right to assess additional penalties in the event it is determined that Sportsman's Golf Club's noncompliant water use has caused environmental harm. Failure to make such payment to the Commission within 45 days hereof shall constitute a separate offense, and shall subject the project sponsor to such additional enforcement actions as the Executive Director shall deem appropriate.

g. The Commission reserves the right to inspect or investigate the project facility, and the project sponsor shall allow authorized employees or agents of the Commission, without advance notice or a search warrant, at any reasonable time and upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas where the project is being constructed, operated, or maintained. Such employees or agents shall be authorized to conduct tests or sampling, to take photographs, to perform measurements, surveys, and other tests, to inspect the methods of construction, operation, or maintenance, to inspect all measurement equipment, to audit, examine, and copy books, papers, and records pertinent to any matter under investigation, and to take any other action necessary to assure that the project is constructed, operated, or maintained in accordance with the terms and conditions of this approval or any other rule, regulation, or order of the Commission.

h. Commission approval shall not be construed to exempt the project sponsor from obtaining all necessary permits and/or approvals required for the project from other federal, state, or local government agencies having jurisdiction over the project. The Commission reserves the right to modify, suspend, or revoke this action if the project sponsor fails to obtain or maintain such approvals.

i. If the project sponsor fails to comply with any term or condition of this docket, the Commission may suspend, modify, or revoke its approval of same, and may impose appropriate fines and penalties. Upon written notice by the Commission, the project sponsor shall have thirty (30) days to correct such noncompliance, unless an alternate period is specified in the notice. Nothing herein shall preclude the Commission from exercising its authority to immediately modify, suspend, or revoke this approval where it determines exigent circumstances warrant such action, or from imposing fines and penalties, regardless of the period of noncompliance.

j. The Commission reserves the right to reopen any project docket and make additional orders that may be necessary to mitigate or avoid adverse impacts or otherwise to protect the public health, safety, welfare or the environment.

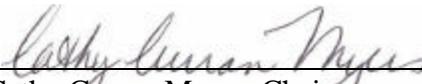
k. Commission approval confers no property rights upon the project sponsor. The securing of all rights necessary and incident to the project sponsor's development and operation of the project shall be the sole and exclusive responsibility of the project sponsor, and this approval shall be subject thereto.

l. This approval is effective until October 9, 2028. The project sponsor shall submit a renewal application by February 9, 2028, and obtain Commission approval prior to continuing operation beyond February 9, 2028.

m. If the project is discontinued for such a period of time and under such circumstances that an abandonment of the project may reasonably be inferred, the Commission may rescind the approval of the project unless a renewal is requested by the project sponsor and approved by the Commission.

By the Commission:

Dated: October 9, 2003



Cathy Curran Myers, Chair
Pennsylvania Commissioner



SUSQUEHANNA RIVER BASIN COMMISSION

1721 North Front Street • Harrisburg, Pennsylvania 17102-2391

Phone (717) 238-0423 • Fax (717) 238-2436

Web <http://www.srbc.net>

Docket No. 20031007

Approval Date: October 9, 2003

EAST COCALICO TOWNSHIP AUTHORITY

Ground-Water Withdrawal (30-Day Average) of 0.072 mgd from Well 8A, and a Total System Withdrawal Limit (30-Day Average) of 0.741 mgd, for Public Water Supply, East Cocalico Township, Lancaster County, Pennsylvania

Review Authority

This project is subject to review pursuant to Article 3, Section 3.10 of the Susquehanna River Basin Compact, P.L. 91-575, and Commission Regulations §803.4, relating to projects requiring review and approval, and §803.43, relating to ground-water withdrawals. The Commission received the application on February 21, 2002.

Description

Purpose. The purpose of the application is to request approval for the withdrawal of ground water for distribution in a public water supply system.

Location. The project is located in the Lower Susquehanna Subbasin, HUC 02050306, Cocalico Creek Watershed, East Cocalico Township, Lancaster County, Pennsylvania.

Project Features. The project sponsor has requested approval for the withdrawal (30-day average) of 0.072 million gallons per day (mgd) from Well 8A, which was drilled beside and replaces Well 8. Well 8A will be used as a source for the public water supply system that currently relies on a total of 12 wells, including Well 8A. The Commission approved East Cocalico Township Authority's (ECTA's) other wells in Docket Nos. 19990901, 19981202, 19920702, 19830904, and 19790105.

Well 8A is constructed as a 10-inch diameter, open-rock borehole from a depth of 135 feet to a total depth of 435 feet. The well is cased with 10-inch-diameter steel casing, grouted in place to a depth of 135 feet. An 8-inch steel inner liner is installed in the well without a filter pack from a depth of 7 feet to a depth of 426 feet. The liner includes screened intervals opposite broken or fractured water-bearing zones at 243-253 feet, 316-346 feet, and 382-392 feet. The well penetrates siltstone and sandstone of the Hammer Creek Formation.

Well 8A is located approximately 600 feet southeast of Pa. Route 272, 1,900 feet northwest of U.S. Route 222, and 1,900 feet southwest of the Pennsylvania Turnpike (I-76).

The public water supply system has an existing average daily demand of 0.615 mgd, and an existing maximum daily demand of 0.883 mgd. The average and maximum daily demands are projected to grow to 0.741 and 1.060 mgd, respectively, by 2028.

Pumping Test. A 49-hour constant-rate pumping test of Well 8A was conducted on October 4-6, 2001 without prior Commission approval. In addition to the pumping well, ten observation wells, located at distances of 30 to 2,500 feet from Well 8A, were monitored during the test. Pumping at an average rate of 321 gallons per minute (gpm), total drawdown at the pumping well was approximately 160 feet at the end of the 2-day test. The cone of depression from the pumping well was elliptical, with the greatest axis along bedding strike, as is the typical case in this aquifer. Drawdown at the end of the pumping period was greater than 38 feet at a domestic well, located approximately 500 feet along strike from Well 8A. Drawdown at a domestic well, located approximately 700 feet across strike from Well 8A, was less than 2 feet.

A severe barrier-boundary-type response (steepening of the time-drawdown trend) was apparent at the pumping well and at the responding observation wells, indicating that the 321 gpm pumping rate was not sustainable.

Coordination. Commission staff has coordinated with the Pennsylvania Department of Environmental Protection (Pa. DEP) during review of the project. Pa. DEP staff has reviewed this docket for consistency with its requirements and provided no negative comments.

Findings

The project is subject to Commission approval and reporting requirements, as per Commission Regulation §803.43.

Subsequent to the 2-day pumping test, Well 8A was placed into service under a Pa. DEP permit modification (Well 8A replacing Well 8) at a maximum pumping rate of 0.072 mgd. Over the first year of Well 8A's operation, during which time it was pumped at rates (30-day averages) varying from 35,000 to 65,000 gpd, surrounding private wells were monitored to refine the extent of the impact from the well. During this monitoring period, the cone of depression was determined to extend at least 1,200 feet across strike and more than 1,500 feet along strike from Well 8A. ECTA mitigated impacts to two domestic wells (one by deepening, one through connection to the public water supply system).

Although Well 8A was initially subjected to a 2-day pumping test at a rate of 321 gpm, a severe barrier boundary effect observed during that test indicates that that pumping rate is not sustainable. Commission staff recommends approval of a 30-day average withdrawal of 0.072 mgd (50 gpm) from Well 8A, which is the pumping rate of previously-approved Well 8, and a rate that, apparently, is sustainable from Well 8A, given its proximity to Well 8. Commission staff also recommends a total 30-day average system withdrawal of 0.741 mgd.

The project is subject to the Commission's water conservation requirements, as per Commission Regulation §804.20(a). The water system is 100 percent metered, and system losses are less than 20 percent, which is in compliance with this regulation.

The project sponsor has paid the appropriate application fee in accordance with Commission Regulation §803.28, and in accordance with Commission Resolution 98-19, as amended by Commission Resolution 2000-06. The project sponsor has provided all proofs of notification as required by Commission Regulation §803.25.

The project is physically feasible, does not conflict with or adversely affect the Commission's Comprehensive Plan, and does not adversely influence the present or future use and development of the water resources of the basin.

Decision

The project is approved for a 30-day average withdrawal of 0.072 mgd from Well 8A, and a total system 30-day average withdrawal limit of 0.741 mgd, pursuant to Article 3, Section 3.10 of the Compact subject to the following conditions:

- a. The project sponsor shall comply with all Commission regulations, including ground-water withdrawal reporting requirements, as per Commission Regulation §803.43.
- b. The project sponsor shall keep daily records of the metered withdrawal and weekly water levels from Well 8A. The required reporting data shall be submitted to the Commission annually, and as otherwise required. Monitoring reports are due within sixty (60) days after the close of the preceding year. The project sponsor shall maintain the existing meter, accurate to within five (5) percent, on Well 8A.
- c. The maximum rate of production from Well 8A shall not exceed 0.072 mgd.
- d. The project sponsor shall comply with the water conservation requirements specified in Commission Regulation §804.20(a).
- e. If the Commission determines that the operation of the project's ground-water withdrawal from Well 8A adversely affects any existing ground-water or surface-water withdrawal, the project sponsor shall be required to provide, at its expense, an alternate water supply or other mitigating measure.
- f. Commission approval shall not be construed to exempt the project sponsor from obtaining all necessary permits and/or approvals required for the project from other federal, state, or local government agencies having jurisdiction over the project. The Commission reserves the right to modify, suspend, or revoke this action if the project sponsor fails to obtain or maintain such approvals.
- g. The Commission reserves the right to inspect or investigate the project facility, and the project sponsor shall allow authorized employees or agents of the Commission, without

advance notice or a search warrant, at any reasonable time and upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas where the project is being constructed, operated, or maintained. Such employees or agents shall be authorized to conduct tests or sampling, to take photographs, to perform measurements, surveys, and other tests, to inspect the methods of construction, operation, or maintenance, to inspect all measurement equipment, to audit, examine, and copy books, papers, and records pertinent to any matter under investigation, and to take any other action necessary to assure that the project is constructed, operated, or maintained in accordance with the terms and conditions of this approval or any other rule, regulation, or order of the Commission.

h. If the project sponsor fails to comply with any term or condition of this docket, the Commission may suspend, modify, or revoke its approval of same, and may impose appropriate fines and penalties. Upon written notice by the Commission, the project sponsor shall have thirty (30) days to correct such noncompliance, unless an alternate period is specified in the notice. Nothing herein shall preclude the Commission from exercising its authority to immediately modify, suspend, or revoke this approval where it determines exigent circumstances warrant such action, or from imposing fines and penalties, regardless of the period of noncompliance.

i. The Commission reserves the right to reopen any project docket or issue such additional orders, as may be necessary, to mitigate or avoid adverse impacts or otherwise to protect public health, safety, welfare, or the environment.

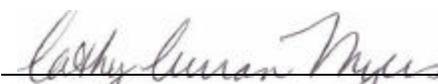
j. Commission approval confers no property rights upon the project sponsor. The securing of all rights necessary and incident to the project sponsor's development and operation of the project shall be the sole and exclusive responsibility of the project sponsor, and this approval shall be subject thereto.

k. This approval is effective until October 9, 2028. The project sponsor shall submit a renewal application by April 9, 2028, and obtain Commission approval prior to continuing operation beyond October 9, 2028.

l. The project sponsor has a period of three (3) years from the date of this approval to initiate the project or such approval will automatically expire, unless an extension is requested by the project sponsor and approved by the Commission. Likewise, if the project is discontinued for such a time and under such circumstances that an abandonment of the project may be reasonably inferred, the Commission may rescind the approval of the project unless a renewal is requested by the project sponsor and approved by the Commission.

By the Commission:

Dated: October 9, 2003



 Cathy Curran Myers, Chair
 Pennsylvania Commissioner



SUSQUEHANNA RIVER BASIN COMMISSION

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Docket No. 20020408

Approval Date: April 11, 2002

Modification Date: October 9, 2003

SHIPPENSBURG UNIVERSITY

Consumptive Water Use of up to 0.140 mgd, for Institutional Use,
Shippensburg Township, Cumberland County, Pennsylvania

Review Authority

This project is subject to review pursuant to Article 3, Section 3.10 of the Susquehanna River Basin Compact, P.L. 91-575, and Commission Regulations §803.4, relating to projects requiring review and approval, and §803.42, relating to the consumptive use of water.

Description

Purpose. The Commission originally approved the project on April 11, 2002, as Docket No. 20020408 (docket). In the docket, Shippensburg University (University) was approved for the consumptive use of water of up to 0.140 mgd for the irrigation of athletic fields, for evaporation from a biological research pond, for evaporation from chiller cooling towers for facility air conditioning and for steam losses from facility heating, subject to conditions enumerated in the docket. This docket modification rescinds certain provisions, and establishes new procedures for computing the project's consumptive water use.

Findings

The project's consumptive water use specified in the docket includes four categories of consumptive water use; athletic field irrigation, makeup water to the chiller cooling towers, makeup water to the boilers at the central steam plant, and evaporation from the biological research pond. The University is currently supplied water from the Shippensburg Borough Water System and from three wells on campus. The well water is used exclusively for the irrigation of the athletic fields.

Since the date of the docket approval, Commission staff has determined that the 1.15-acre biological research pond is not supplied any water from the University's sources of water supply. The biological research pond, located along Burd Run, is supplied water solely from local drainage and stormwater runoff through a 4-inch pipe collection system. Therefore, Commission staff has determined that it is not appropriate to include evaporation from the biological research

pond as a part of the project's consumptive water use. The project's consumptive water use accounting procedure should be modified accordingly.

Additionally, the project's consumptive water use accounting procedure allows for the weekly monitoring and recording of the metered athletic field irrigation, prorated to a daily basis, to obtain that portion of the project's daily consumptive water use. The project sponsor replaced a natural turf field with an artificial turf field and eliminated other playing fields this summer. The natural turf fields no longer in use include the soccer field, the soccer practice field (both now parking lots), the field hockey field (now artificial turf) and the field hockey practice field (now a tennis court). The University also installed in-ground irrigation systems for the baseball, softball, and football practice turf fields that will provide more control over the use of irrigation water. Commission staff has requested that the University monitor athletic field irrigation daily. Beginning with the 2004 irrigation season, the project sponsor has agreed to the daily monitoring of athletic field irrigation using data from the electronic irrigation controllers, backed up with metered readings from the wells.

The project sponsor will compute the project's daily consumptive water use by summing daily irrigation for the athletic fields, daily metered makeup water to the boilers, and weekly metered makeup water to the chiller cooling towers, prorated to a daily basis.

Commission staff recommends that the accounting procedure specified in the original docket be modified accordingly.

Decision

Commission Docket No. 20020408, as approved April 11, 2002, is hereby modified as follows:

- a. Condition (b) is hereby rescinded and replaced by the following condition (b).
- b. The project sponsor shall keep daily records of the project's consumptive water use, and shall report the data to the Commission quarterly, and as otherwise required. Quarterly monitoring reports are due within thirty (30) days after the close of the preceding quarter. The daily quantity of water consumptively used shall be the quantity pumped to the irrigation systems at the athletic fields and the quantity used for makeup water to the chiller cooling towers and to the boilers at the central steam plant. The project sponsor shall maintain the existing meters, accurate to within five (5) percent, to calculate the consumptive water use.
- c. The Commission reserves the right to inspect or investigate the project facility, and the project sponsor shall allow authorized employees or agents of the Commission, without advance notice or a search warrant, at any reasonable time and upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas where the project is being constructed, operated, or maintained. Such employees or agents shall be authorized to conduct tests or sampling, to take photographs, to perform measurements, surveys, and other tests, to inspect the methods of construction, operation, or maintenance, to inspect all measurement equipment, to audit, examine, and copy books, papers, and records pertinent to any

matter under investigation, and to take any other action necessary to assure that the project is constructed, operated, or maintained in accordance with the terms and conditions of this approval or any other rule, regulation, or order of the Commission.

d. If the project sponsor fails to comply with any term or condition of this docket, the Commission may suspend, modify, or revoke its approval of same, and may impose appropriate fines and penalties. Upon written notice by the Commission, the project sponsor shall have thirty (30) days to correct such noncompliance, unless an alternate period is specified in the notice. Nothing herein shall preclude the Commission from exercising its authority to immediately modify, suspend, or revoke this approval where it determines exigent circumstances warrant such action, or from imposing fines and penalties, regardless of the period of noncompliance. This condition hereby rescinds and replaces condition (g) of the original docket.

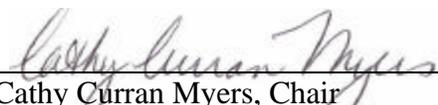
e. All other conditions in Commission Docket No. 20020408 not inconsistent herewith shall remain effective.

f. Based on Commission Regulation §803.30(a), this approval is effective until April 11, 2027. The duration of this docket modification is in accordance with the term of the prior docket approval. The project sponsor shall submit a renewal application by October 11, 2026, and obtain Commission approval prior to continuing operation beyond April 11, 2027.

g. If the project is discontinued for such a period of time and under such circumstances that an abandonment of the project may reasonably be inferred, the Commission may rescind the approval of the project unless a renewal is requested by the project sponsor and approved by the Commission.

By the Commission:

Dated: October 9, 2003



Cathy Curran Myers, Chair
Pennsylvania Commissioner



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Docket No. 20031009

Approval Date: October 9, 2003

TOWN OF RISING SUN

Ground-Water Withdrawal (30-Day Average) of 0.090 mgd from Well 2001-12,
and a Total System Withdrawal Limit (30-Day Average) of 0.256 mgd,
for Public Water Supply,
Town of Rising Sun, Cecil County, Maryland

Review Authority

This project is subject to review pursuant to Article 3, Section 3.10 of the Susquehanna River Basin Compact, P.L. 91-575, and Commission Regulations §803.4, relating to projects requiring review and approval, and §803.43, relating to ground-water withdrawals. The Commission received the application on August 2, 2002.

Description

Purpose. The purpose of the application is to request approval for the withdrawal of ground water for distribution in a public water supply system.

Location. The project is located in the Lower Susquehanna Subbasin, HUC 02050306, Octoraro Creek Watershed, Town of Rising Sun, Cecil County, Maryland.

Project Features. The project sponsor has requested approval for the withdrawal (30-day average) of 0.090 million gallons per day (mgd) from Well 2001-12 (also known as the Dairy Street Well). The well will be used as a source for the public water supply system that currently relies on Wells 1, 3, 5, and 8. The Commission previously approved a 0.72-mgd withdrawal from Well 9 in Commission Docket No. 19890303, in addition to a 0.126-mgd withdrawal from other sources for the town water supply system. The "Well 9" of this previous approval is still active and has been redesignated "Well 8" by the Town of Rising Sun. Well 2001-12 was drilled in August 2001 to supplement the existing water sources.

Well 2001-12 is constructed as a 6-inch-diameter open-rock borehole from a depth of 50 feet to a total depth of 400 feet. The well is cased with 6-inch-diameter steel casing to a depth of 50 feet. The well penetrates gneiss of the Conowingo Diamictite. Well 2001-12 is located on the south side of the Town of Rising Sun, approximately 1,400 feet south of the intersection of

Maryland Routes 273 and 274; and 4,900 feet east-south east of the intersection of Maryland Routes 276 and 273.

The public water supply system has an existing average daily demand of 0.158 mgd, and an existing maximum daily demand of 0.226 mgd. The average and maximum daily demands are projected to grow to 0.256 and 0.366 mgd, respectively, by 2028.

Pumping Test. A 72-hour constant-rate pumping test of Well 2001-12 was conducted on October 8-11, 2001. The testing was not preapproved by the Commission. Pumping at an average rate of 55 gallons per minute (gpm), total drawdown at the pumping well was 88.6 feet at the end of the 3-day test. Drawdown at the single observation well used for the pumping test, located approximately 150 feet northwest of Well 2001-12, was 35.1 feet at the end of the testing. During the pumping test, flow in an adjacent unnamed tributary to Stone Run and shallow ground-water levels in an adjacent wetland along the Stone-Run corridor were not monitored. A stepped-rate pumping test of increasing rates up to 75 gpm also was conducted.

Coordination. Commission staff has coordinated with the Water Rights Division of the Water Management Administration of the Maryland Department of the Environment (MDE) during the review of the project, and MDE staff has reviewed this docket for consistency with its requirements.

Findings

The project is subject to Commission approval and reporting requirements, as per Commission Regulation §803.43.

Commission staff recommends approval of a 30-day average withdrawal of 0.090 mgd from Well 2001-12 and a total system 30-day average withdrawal of 0.256 mgd. The maximum pumping rate should not exceed 63 gpm.

Well 2001-12 is located approximately 300 feet northeast of an unnamed tributary to Stone Run, which is classified as “Natural Trout Waters and Public Water Supply” (Use III-P) (Code of Maryland Regulations, Title 26, Subtitle 08, Chapter 02, Water Quality). Wetlands occur along the corridor of this tributary stream to within 100 feet of the well.

The pumping test of Well 2001-12 showed a “recharge-type” boundary response (flattening of time-drawdown trend) at both the pumping well and the observation well. At the site of Well 2001-12, this non-unique response could represent, among other factors: (a) delayed drainage from the saprolite (soil) or (b) induced infiltration (recharge) from the adjacent tributary to Stone Run or from the adjacent wetlands. Recovery data following the pumping test also suggested the possibility of recharge or induced infiltration.

Because of the potential for induced infiltration from the adjacent unnamed tributary to Stone Run and/or from wetlands along the stream corridor, Commission staff recommends that the project sponsor monitor, for a period of one year, shallow ground-water levels with piezometers installed to different depths in the area of the adjacent wetlands and the unnamed

tributary to Stone Run. The monitoring should determine if pumping of Well 2001-12 causes a reversal in the vertical ground-water gradient immediately beneath the stream and wetlands such that surface water could be induced to infiltrate from the unnamed tributary or from the wetlands by pumping of the well.

The project sponsor should submit its plan for the monitoring to the Commission for staff review and approval. At the end of the one-year monitoring period, Commission staff will determine whether the ground-water withdrawal is inducing infiltration from the nearby unnamed tributary to Stone Run or from the nearby wetlands, and recommend appropriate modification to this approval, if necessary. Commission staff may recommend additional monitoring, as necessary.

The project is subject to the Commission's water conservation requirements, as per Commission Regulation §804.20(a). The water system is 100 percent metered, and system losses are less than 20 percent, which is in compliance with this regulation.

The project sponsor has paid the appropriate application fee in accordance with Commission Regulation §803.28, and in accordance with Commission Resolution 98-19, as amended by Commission Resolution 2000-06. The project sponsor has provided all proofs of notification, as required by Commission Regulation §803.25.

The project is physically feasible, does not conflict with or adversely affect the Commission's Comprehensive Plan, and does not adversely influence the present or future use and development of the water resources of the basin.

Decision

The project's ground-water withdrawal of 0.090 mgd (30-day average) from Well 2001-12, and a total system withdrawal limit of 0.256 mgd (30-day average), are approved pursuant to Article 3, Section 3.10 of the Compact subject to the following conditions:

- a. The project sponsor shall comply with all Commission regulations, including ground-water withdrawal reporting requirements, as per Commission Regulation §803.43.
- b. The project sponsor shall keep daily records of the metered withdrawal and daily water levels from Well 2001-12 during the monitoring period in condition "d" below. Upon review by Commission staff, water level monitoring will revert to weekly, as specified in Commission Regulation §803.43. The required reporting data shall be submitted to the Commission annually, and as otherwise required. Monitoring reports are due within sixty (60) days after the close of the preceding year. The project sponsor shall maintain the existing meter, accurate to within five (5) percent, on Well 2001-12.
- c. The maximum instantaneous rate of production from Well 2001-12 shall not exceed 63 gpm.

d. The project sponsor shall monitor shallow ground-water levels in the area of the adjacent wetlands and the unnamed tributary to Stone Run, and otherwise assess the impact to the adjacent wetlands for a period of at least one (1) year. A monitoring plan, including any additional data, calculations, or interpretations pertinent to the monitoring plan or to the issue of impact to flow in the adjacent tributary or to the wetlands, shall be submitted to the Commission within sixty (60) days of docket approval. This plan shall include a schedule for implementation of the plan; and the plan shall be executed upon Commission approval. The monitoring results shall be documented in an interpretive report due sixty (60) days after the one-year monitoring period, or otherwise as directed by Commission staff.

e. The project sponsor shall comply with the water conservation requirements specified in Commission Regulation §804.20(a).

f. If the Commission determines that the operation of the project's ground-water withdrawal from Well 2001-12 adversely affects any existing ground-water or surface-water withdrawal, the project sponsor shall be required to provide, at its expense, an alternate water supply or other mitigating measure.

g. Commission approval shall not be construed to exempt the project sponsor from obtaining all necessary permits and/or approvals required for the project from other federal, state, or local government agencies having jurisdiction over the project. The Commission reserves the right to modify, suspend, or revoke this action if the project sponsor fails to obtain or maintain such approvals.

h. The Commission reserves the right to inspect or investigate the project facility, and the project sponsor shall allow authorized employees or agents of the Commission, without advance notice or a search warrant, at any reasonable time and upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas where the project is being constructed, operated, or maintained. Such employees or agents shall be authorized to conduct tests or sampling, to take photographs, to perform measurements, surveys, and other tests, to inspect the methods of construction, operation, or maintenance, to inspect all measurement equipment, to audit, examine, and copy books, papers, and records pertinent to any matter under investigation, and to take any other action necessary to assure that the project is constructed, operated, or maintained in accordance with the terms and conditions of this approval or any other rule, regulation, or order of the Commission.

i. If the project sponsor fails to comply with any term or condition of this docket, the Commission may suspend, modify, or revoke its approval of same, and may impose appropriate fines and penalties. Upon written notice by the Commission, the project sponsor shall have thirty (30) days to correct such noncompliance, unless an alternate period is specified in the notice. Nothing herein shall preclude the Commission from exercising its authority to immediately modify, suspend, or revoke this approval where it determines exigent circumstances warrant such action, or from imposing fines and penalties, regardless of the period of noncompliance.

j. The Commission reserves the right to reopen any project docket or issue such additional orders, as may be necessary, to mitigate or avoid adverse impacts or otherwise to protect public health, safety, welfare, or the environment.

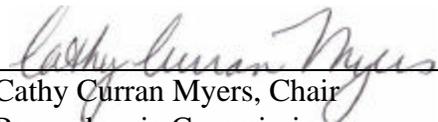
k. Commission approval confers no property rights upon the project sponsor. The securing of all rights necessary and incident to the project sponsor's development and operation of the project shall be the sole and exclusive responsibility of the project sponsor, and this approval shall be subject thereto.

l. This approval is effective until October 9, 2028. The project sponsor shall submit a renewal application by April 9, 2028, and obtain Commission approval prior to continuing operation beyond October 9, 2028.

m. If the project is discontinued for such a period of time and under such circumstances that an abandonment of the project may reasonably be inferred, the Commission may rescind the approval of the project unless a renewal is requested by the project sponsor and approved by the Commission.

By the Commission:

Dated: October 9, 2003



Cathy Curran Myers, Chair
Pennsylvania Commissioner

RESOLUTION NO. 2003-08

A RESOLUTION of the Susquehanna River Basin Commission adopting procedural guidelines for processing applications for emergency water withdrawal and/or emergency consumptive use certificates under Commission Regulation 18 CFR §803.27.

WHEREAS, Commission Regulation 18 CFR §803.27 authorizes the Executive Director, in consultation with the Chair and member from the affected state, to issue an emergency certificate authorizing immediate action to protect the public health, safety and welfare or to avoid substantial and irreparable injury to any person, property or natural resource; and

WHEREAS, in the experience of the Commission, these actions most often involve water withdrawals or consumptive uses of water; and

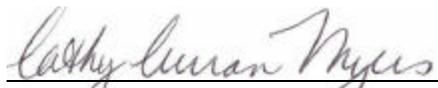
WHEREAS, in issuing such certificates, there is a need to ensure that the action requested is indeed of an emergency nature as intended by Regulation 18 CFR §803.27; and

WHEREAS, there is a further need to establish an administrative process that will provide the necessary Commission scrutiny while, at the same time, expediting the processing of emergency certificate applications.

NOW THEREFORE BE IT RESOLVED THAT:

1. The Commission hereby adopts procedural guidelines for issuance of emergency certificates for water withdrawals and/or consumptive uses as set forth in a document entitled "Emergency Water Withdrawal/Consumptive Use Procedures" dated October 9, 2003, a copy of which is attached hereto and made a part of this Resolution.
2. In consultation with the Commission, the staff is encouraged to periodically review and, if appropriate, amend these guidelines.
3. This Resolution shall be effective immediately.

Date: October 9, 2003



Cathy Curran Myers, Chair

Susquehanna River Basin Commission

a water management agency serving the Susquehanna River Watershed



Policy No. 2003-03
October 9, 2003

EMERGENCY WATER WITHDRAWAL/CONSUMPTIVE USE PROCEDURES

Background. The Susquehanna River Basin Commission (Commission) regulates the emergency withdrawal and/or the consumptive use of water within its geographical boundaries under 18 CFR §803.27. Historically, the Commission has approved few emergency water uses, and those approved, have been closely examined to ensure conformance with 18 CFR §803.27, applying strict interpretation of the request with the term “emergency” as cited in the regulations. While the Commission encourages conservation and proper planning for water use, it also realizes that exigent circumstances, such as water quality constraints, persistent low water, or drought conditions may exist on a temporary basis that require some immediate action for which the normal project review process is inadequate.

Purpose. To provide guidelines for processing applications for temporary certificates authorizing emergency water withdrawals or emergency consumptive uses in the Susquehanna River Basin.

Scope. These procedures apply to any project sponsor (applicant) who requests a certificate authorizing emergency withdrawal or consumptive use from surface or ground water source(s) within the boundaries of the Susquehanna River Basin. Consumptive uses or withdrawals could be in addition to those already approved in a Commission issued docket, or could be for “new” projects not previously acted upon by the Commission. 18 CFR §803.27 specifies an emergency exists when “immediate action [is required] to protect the public health, safety and welfare, or to avoid substantial and irreparable injury to any person, property, or natural resources.”

Procedures. The following procedures shall apply to emergency withdrawals or consumptive uses (“projects”), subject to Commission approval:

1. Notification and application. An applicant shall notify the Commission, prior to commencement of the project, that an emergency certificate is needed. If immediate action, as defined by 18 CFR §803.27, is required by an applicant and prior notice to the Commission is not possible, then the applicant must contact the Commission within one (1) business day of the action. Notification may be by certified mail, facsimile, telegram, mailgram, or other form of written communication. This notification must be followed within one (1) business day by submission of the following information:

- (a) An emergency application form (SRBC Form 78) or copy of state or federal emergency water use application if the applicant also is requesting emergency approval from either a state or federal agency.
 - (b) As a minimum, the application information must contain:
 - i. Contact information
 - ii. Justification for emergency action (purpose)
 - iii. Location map and schematic of proposed project
 - iv. Desired term of emergency use
 - v. Source(s) of the water
 - vi. Quantity of water
 - vii. Flow measurement system (such as metering)
 - viii. Use restrictions in effect (or planned)
 - ix. Description of potential adverse impacts and mitigating measures
2. Staff review. Prior to recommending issuance of an emergency approval, Commission staff must:
- (a) Confirm that a valid emergency exists requiring immediate action; if the applicant does not demonstrate an immediate action is needed, the applicant will be advised to submit an application under the usual procedures for project review; and
 - (b) Confirm from available information that the applicant selected actions to respond to the emergency are designed to minimize adverse impact to life, health, property or natural resources; and
 - (c) Coordinate with all necessary resource agencies and applicable member jurisdictions in accordance with CFR 18 §803.27.
3. Emergency Certificate Issuance. The Executive Director will:
- (a) Review and act on the emergency request as expeditiously as possible upon receipt of all necessary information stipulated in paragraph 1 above.
 - (b) With the concurrence of the chairperson of the Commission and the member from the affected signatory state, issue an emergency certificate for a term not to extend beyond the next Commission meeting.
 - (c) Include conditions in the emergency certificate which may include, without limitation, monitoring of withdrawal and/or consumptive use amounts, measurement devices, public notification, and reporting, to assure minimal adverse impacts to the environment and other users.
4. Post Approval. Actions following emergency approvals will vary depending upon project circumstances.
- (a) At the next Commission meeting, Commissioners may, by resolution, extend the term of the emergency certificate, upon presentation of a request from the

applicant accompanied by appropriate evidence that the conditions causing the emergency persist.

- (b) If the condition is expected to persist longer than the specified extended term, the applicant must submit application to the Commission for applicable water withdrawal or consumptive use, or the project will be terminated. If the applicant already has a Commission approval for the project, the applicant must submit an application to modify the existing docket accordingly or face suspension or revocation of the docket.
5. With the concurrence of the chairperson of the Commission and the member from the affected signatory state, the Executive Director may terminate an emergency certificate earlier than the specified duration if it is determined that an emergency no longer exists under provisions of 18 CFR §803.27, and/or the certificate holder has not complied with one or more special conditions for the emergency withdrawal or consumptive water use.
 6. Project applicants are responsible for any necessary restoration or mitigation of environmental damage that may occur as a result of the emergency action.
 7. Point of contact for these procedures is the Chief, Water Resources Management Division.

Susquehanna River Basin Commission

a water management agency serving the Susquehanna River Watershed



APPLICATION FOR EMERGENCY WATER CERTIFICATE

1. Administrative contact information:

Name of applicant/business: _____

Address: _____

Responsible contact person: _____ Phone: (____) _____

E-mail address: _____

2. Project Purpose (brief statement of proposed emergency use, and justification)

3. Project location (Attach a site map using 1:24,000 scale USGS topographic quadrangle map, or equivalent, and show expanded detail, as necessary. Public water suppliers must also delineate the service area that will use the water.)
Desired duration of use (number of days or ending date)

4. Desired duration of use (number of days or ending date). _____

5. Source(s) of water/location (specify ground or surface water source name(s) and clearly designate point(s) of withdrawal).

6. Amount of water proposed to be withdrawn/consumptively used (gallons per day)

7. Flow measurement system (metering plan to account for water during emergency use/withdrawal).

8. Use restrictions or conservation measures employed (planned or currently in effect).

9. Describe any anticipated adverse effects on the environment or on other water users, and measures designed to minimize or mitigate such effects.

