June 14, 2023
REVISED PACKAGE: June 20, 2023

*****SENT VIA EMAIL*****

Hydro.GeneralPermit@epa.gov

Re: **Holyoke Gas and Electric Department**
Cobble Mountain Station
Holyoke, Massachusetts
Hydroelectric Generating Facilities General Permit

Dear Sir or Madam:

Holyoke Gas and Electric Department (HG&E) is seeking coverage under the National Pollutant Discharge Elimination System (NPDES) General Permit for Hydroelectric Generating Facilities (HYDRO GP) for Cobble Mountain Station in Westfield, Massachusetts. This facility currently maintains coverage under the 2009 HYDRO GP.

Please note, although the facility is located within a drinking water supply area, the site was specifically designed to discharge Hydro GP wastewaters via a long piping run to below the lower dam and directly into the Litter River outside of the water supply area.

Please find attached the following documents supporting this submittal:

1. Notice of Intent
2. Supplemental Outfall Attachment
3. Site Figures and Flow Diagram
4. Cooling Water Information
5. Endangered Species Submittal (Response Pending)
6. Historic Places Listing (None Present)
7. Impaired Waters Listing (No Impairments)

If you have any questions regarding this facility or the enclosed application package, please contact me at (413) 875-1607. Thank you for your attention to this matter.

Very truly yours,

TIGHE & BOND, INC.

Timothy K. Kucab, CHMM
Project Manager

Copy: Chris Perry, HG&E (via email)

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SECTION 1

Section 1
Notice of Intent

II. Suggested Format for the HYDRO General Permit Notice of Intent (NOI):

Request for General Permit Authorization to Discharge Wastewater Notice of Intent (NOI) to be covered by Hydroelectric Generating Facilities General Permit (HYDROGP) No. MAG360000 or NHG360000

Indicate Applicable General Permit for Discharge(s): ■ MAG360000 ☐ NHG360000

A. Facility Information

1. Facility Location	Name: Cobble Mountain Station - Holyoke Gas and Electric Department	
	Street: Gorge Road	
	City: Westfield	State: MA
	Zip: 01085	SIC Code: 4911
	Latitude: 42° 7'1.49"N	Longitude: 72°51'52.68"W
	Type of Business: Hydroelectric Facility	
2. Facility Mailing Address (if different from Location)	Street: 99 Suffolk Street	
	City: Holyoke	State: MA
	Zip: 01040	
3. Facility Owner	Name: Springfield Water and Sewer Comission	Email: james.laurila@waterandsewer.org
	Street: P.O. Box 995	Telephone: (413) 452-1300

	City: Springfield	State: MA
	Contact Person: James Laurila, P.E.	Zip: 01101-0995
4. Facility Operator (if different from above)	Name: Holyoke Gas and Electric	Email: JLavelle@hged.com
	Street: 99 Suffolk Street	Telephone: (413) 536-9311
	City: Holyoke	State: MA
	Zip: 01040	

5. Current Permit Status	Has prior HYDROGP coverage been granted for the discharge(s) listed in the NOI?	■ Yes ☐ No
	Permit number (if yes): MA0035556	
	Is the facility covered under an Individual Permit?	☐ Yes ■ No
	Is there a pending NPDES application of file with EPA for the discharge(s)?	☐ Yes ■ No
	Date of Submittal (if yes):	Permit Number (if known):
	Attach a topographic map indicating the locations. of the facility and outfall(s) to the receiving water	■ Map Attached
	Number of turbines: 3	
	Combined turbine discharge (installed capacity) at: 1350	Maximum capacity? 1350 cfs Minimum capacity? 250 cfs
	Is this facility operated as a pump storage project?	☐ Yes ■ No

B. Discharge Information

1. Name of Receiving Water(s): Little River		■ Freshwater ☐ Marine
2. Waterbody classification: ☐ Class A ■ Class B ☐ Class SA ☐ Class SB		
3. Is the receiving water is listed in the State's Integrated List of Waters (i.e., CWA Section 303(d))?		■ Yes ☐ No
4. If the applicant answered yes to B.3, has the applicant identified the designated uses that are impaired, any pollutants indicated, and whether a final TMDL is available for any of the indicated pollutants in a separate attachment to the NOI?		■ Yes ☐ No
5. Attach a line drawing or flow schematic showing water flow through the facility including location of intake(s), operations contributing to effluent flow, treatment units, outfalls, and receiving water(s).		■ Line Drawing Attached
6. List each outfall (numbered sequentially) discharging effluent from the following categories and provide an estimate of the average monthly flow (in gallons per day) for each discharge type. See Parts 1.1 through 1.5 (for MA) or Parts 2.1 through 2.5 (for NH) for descriptions and permit conditions for each discharge type.		
Equipment-related cooling water	Outfalls: DSN 001	1464 gpd
Equipment and floor drain water	Outfalls:	gpd
Maintenance-related water	Outfalls:	gpd
Facility maintenance-related water during flood/high water events	Outfalls:	gpd
Equipment-related backwash strainer water	Outfalls:	gpd

7. For each outfall listed above, provide the following information (attach additional sheets if necessary). Outfalls may be eligible for alternative pH effluent limits. See Parts 1.7.l. and 2.7.l of the permit for additional information. Contact MassDEP or NHDES to determine the required information and protocol to request alternative pH effluent limits.		
Outfall No. DSN 001 - Combined Cooling Water, Leakage, Floor Drain and Stormwater	Latitude: 42° 7'6.24"N	Longitude: 72°51'24.16"W
	Discharge is: ■ Continuous ☐ Intermittent ☐ Seasonal	
	Maximum Daily Flow 0.129* MGD	Average Monthly Flow 0.004* MGD
	Maximum Daily Temperature 76.82 °F	Average Monthly Temperature 50.49 °F
	Maximum Daily Oil & Grease 7.4 mg/L	Average Monthly Oil & Grease 2.25 mg/L
	Maximum Monthly pH 8.19 s.u.	Minimum Monthly pH 6.5 s.u.
	Alternative pH limits requested? ☐Yes ■ No	State approval attached? ☐ Yes ☐ No
Outfall No.	Latitude:	Longitude:
	Discharge is: ☐ Continuous ☐ Intermittent ☐ Seasonal	
	Maximum Daily Flow MGD	Average Monthly Flow MGD
	Maximum Daily Temperature °F	Average Monthly Temperature °F
	Maximum Daily Oil & Grease mg/L	Average Monthly Oil & Grease mg/L
	Maximum Monthly pH s.u.	Minimum Monthly pH s.u.
	Alternative pH limits requested? ☐Yes ☐ No	State approval attached? ☐ Yes ☐ No

*Value presented is the theoretical assuming all three units were on-line.

Outfall No.	Latitude:	Longitude:
	Discharge is: ☐ Continuous ☐ Intermittent ☐ Seasonal	
	Maximum Daily Flow MGD	Average Monthly Flow MGD
	Maximum Daily Temperature °F	Average Monthly Temperature °F
	Maximum Daily Oil & Grease mg/L	Average Monthly Oil & Grease mg/L
	Maximum Monthly pH s.u.	Minimum Monthly pH s.u.
	Alternative pH limits requested? ☐Yes ☐ No	State approval attached? ☐ Yes ☐ No

C. Best Technology Available for Cooling Water Intake Structures *See Section 4 of this Package*

Facilities that checked "equipment-related cooling" as one of the discharges in Part B. of this NOI are subject to the following requirements.	
1. Does the facility intake water for cooling purposes subject to the BTA Requirements at Part 4 of the HYDROGP?	■ Yes ☐ No If no, skip to Part D of this NOI.
2. If yes, indicate which technology employed to comply with the general BTA requirements at Part 4.2.b of the HYDROGP:	
☐An existing technology (e.g., a physical or behavioral barrier, spillway, or guidance device) that directs fish towards a downstream passage that minimizes exposure to the CWIS. Has the applicant attached a narrative description of the barrier to demonstrate that the downstream fish passage effectively transports live fish in a manner that minimizes the likelihood of becoming impinged or entrained at the cooling water intake? ☐ Yes ☐ No	
☐An effective intake velocity at the point of cooling water withdrawal, or alternatively, at the point where cooling water enters the penstock (for intakes located within the penstock), not to exceed 0.5 fps. Has the applicant attached a demonstration of compliance with this intake velocity through observation of live fish in the intake or calculation based on the maximum intake volume and minimum bypass flow? ☐ Yes ☐ No	

☐For cooling water withdrawn directly from the source waterbody (*i.e.*, not from within the penstock), a physical screen or other barrier technology with a mesh size no greater than ½-inch that minimizes the potential for adult and juvenile fish to become entrapped in the CWIS. Has the applicant attached a description of the technology? ☐ Yes ☐ No If the mesh size of the screen is greater than ½-inch has the applicant demonstrated that the calculated intake velocity is less than 0.5 fps based on the screen dimensions, maximum intake volume, and source water 7Q10 low flow? ☐ Yes ☐ No
3. If the answer to question C.1 is yes, in addition to complying with one of the criteria above, the applicant must submit the following information:
Maximum daily volume of cooling water withdrawn during previous five (5) years: 43,200 gpd
Maximum monthly average volume of cooling water withdrawn during the previous five (5) years: 1,464 gpd
Maximum daily and average monthly volume of water used exclusively for cooling: Max: 43200 gpd Avg: 1464 gpd Maximum daily and average monthly volume of water used for another process before or after being used for cooling: Max: 0 gpd Avg: gpd Has the applicant attached a narrative description explaining how cooling water is reused? ☐ Yes ■ No
Volume of total intake water withdrawn and used in facility as a percentage of: Installed turbine capacity 0.005 % Average daily flow through penstock 0.381 % Minimum flow through penstock 0.310 %
Source water annual mean flow (*e.g.*, available from USGS, MassDEP, or NHDES): 952 cfs
Source water 7-day mean low flow with 10-year recurrence interval (7Q10): 77.3 cfs
Volume of total intake water withdrawn and used in facility as a percentage of: Source water mean annual flow 0.007% Source water 7Q10 flow 0.087%

During the previous 5 year period, only Unit #1 was operational. However, the facility intends on bringing Units #2 and #3 on-line in the future.

D. Chemical Additives

1. Does the facility use or plan to use non-toxic chemicals for pH adjustment?	☐ Yes ■ No
2. Does the facility use or plan to use chemicals for anti-freeze purposes?	☐ Yes ■ No
3. If the answer to D.2 is yes, provide the following for **EACH** chemical additive used for anti-freeze:	
Chemical Name and Manufacturer:	
Maximum Dosage Concentration Used:	Average Dosage Concentration Used:
Maximum Concentration in Discharge: mg/L	Average Concentration in Discharge: mg/L
Material Safety Data Sheet (MSDS) or other toxicity documentation for each chemical attached? ☐ Yes ☐ No	

E. Endangered Species Act Certification

Appendix 2 to the HYDROGP explains the certification requirements related to threatened and endangered species and designated critical habitat. Indicate under which criteria the discharge is eligible for coverage under the HYDROGP:	
1. ESA eligibility for species under jurisdiction of USFWS	☐ **Criterion A**: No endangered or threatened species or critical habitat are in proximity to the discharges or related activities or come in contact with the "action area." See Appendix 2, Part B for documentation requirements. Documentation attached? ☐ Yes ☐ No
	■ **Criterion B**: Formal or informal consultation with the USFWS under Section 7 of the ESA resulted in either a no jeopardy opinion (formal consultation) or a written concurrence by USFWS on a finding that the discharges and related activities are "not likely to adversely affect" listed species or critical habitat. Has the operator completed consultation with USFWS and attached documentation? ☐ Yes ■ No If no, is consultation underway? ■ Yes ☐ No
	☐ **Criterion C**: Using the best scientific and commercial data available, the effect of the discharges and related activities on listed species and designated critical habitat have been evaluated. Based on those evaluations, a determination is made by EPA, or by the operator and affirmed by EPA, that the

		discharges and related activities will have "no effect" on any federally threatened or endangered species or designated critical habitat under the jurisdiction of the USFWS. Has the applicant attached documentation of the "no effect" finding? ☐ Yes ☐ No
2.	ESA eligibility for species under jurisdiction of NMFS	Is the facility located on: the Connecticut River between the Massachusetts/Connecticut state line and Turners Falls, MA; the Taunton River; the Merrimack River between Lawrence, MA and the Atlantic Ocean; the Piscataqua River including the Salmon Falls and Cocheco Rivers; or a marine water? ☐ Yes ■ No
		If yes, was the applicant authorized to discharge from the facility under the 2009 HYDROGP? ■ Yes ☐ No
		If the discharge is to one of the named rivers above or to a marine water *and* the facility was not previously covered under the 2009 HYDROGP, has there been any previous formal or informal consultation with NMFS? ☐ Yes ☐ No Documentation of consultation attached? ☐ Yes ☐ No

F. National Historic Properties Act Eligibility

1. Indicate under which criterion the discharge(s) is eligible for covered under the HYDROGP:
■ **Criterion A**: No historic properties are present.
☐ **Criterion B**: Historic properties are present. The discharges and related activities do not have the potential to impact historic properties.
☐ **Criterion C**: Historic properties are present. The discharges and related activities have the potential to impact or adversely impact historic properties.
2. Has the applicant attached supporting documentation for NHPA eligibility described in Appendix 3, Part C of the HYDROGP? ■ Yes ☐ No

3.	Does supporting documentation include a written agreement from the State Historic Preservation Officer, Tribal Historic Preservation Officer, or other tribal representative that outlines measures the operation will carry out to mitigate or prevent any adverse effects on historic properties? ☐ Yes ■ No

G. Supplemental Information

Please provide any supplemental information, including antidegradation review information applicable to new or increased discharges. Attach any certifications required by the HYDROGP. Supplemental information attached? ☐ Yes ■ No

H. Signature Requirements

1.	The NOI must be signed by the operator in accordance with the signatory requirements of 40 C.F.R. § 122.22, including the following certification:	
	I certify under penalty of law that no chemical additives are used in the discharges to be authorized under this General Permit except for those used for pH adjustment or anti-freeze purposes and that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	
2.	Notification provided to the appropriate State, including a copy of this NOI, if required?	☐ Yes ■ No
Signature: James Lavelle		Date: 6/20/23
Print Name and Title: James Lavelle - General Manager		

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SECTION 2

Section 2
Supplemental Outfall Information

Additional Outfall Information

Outfall DSN-001

Outfall DSN -001 discharges from the station oil/water separator to the Little River. The station sump receives non-contact cooling water from 3 oil coilers, as well as unit leakage, facility floor drains discharge and infiltrating runoff. Prior to discharge, the water collected in the sump passes through an oil/water separator. The outfall is located several hundred feet from the facility, downstream of the West Parish Filters Water Treatment Plant intake.

Sampling of this outfall will be performed at the outlet of the oil water separator or a manhole in the power plant driveway (depending on the site conditions).

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SECTION 3

Section 3
Site Figures and Flow Diagrams

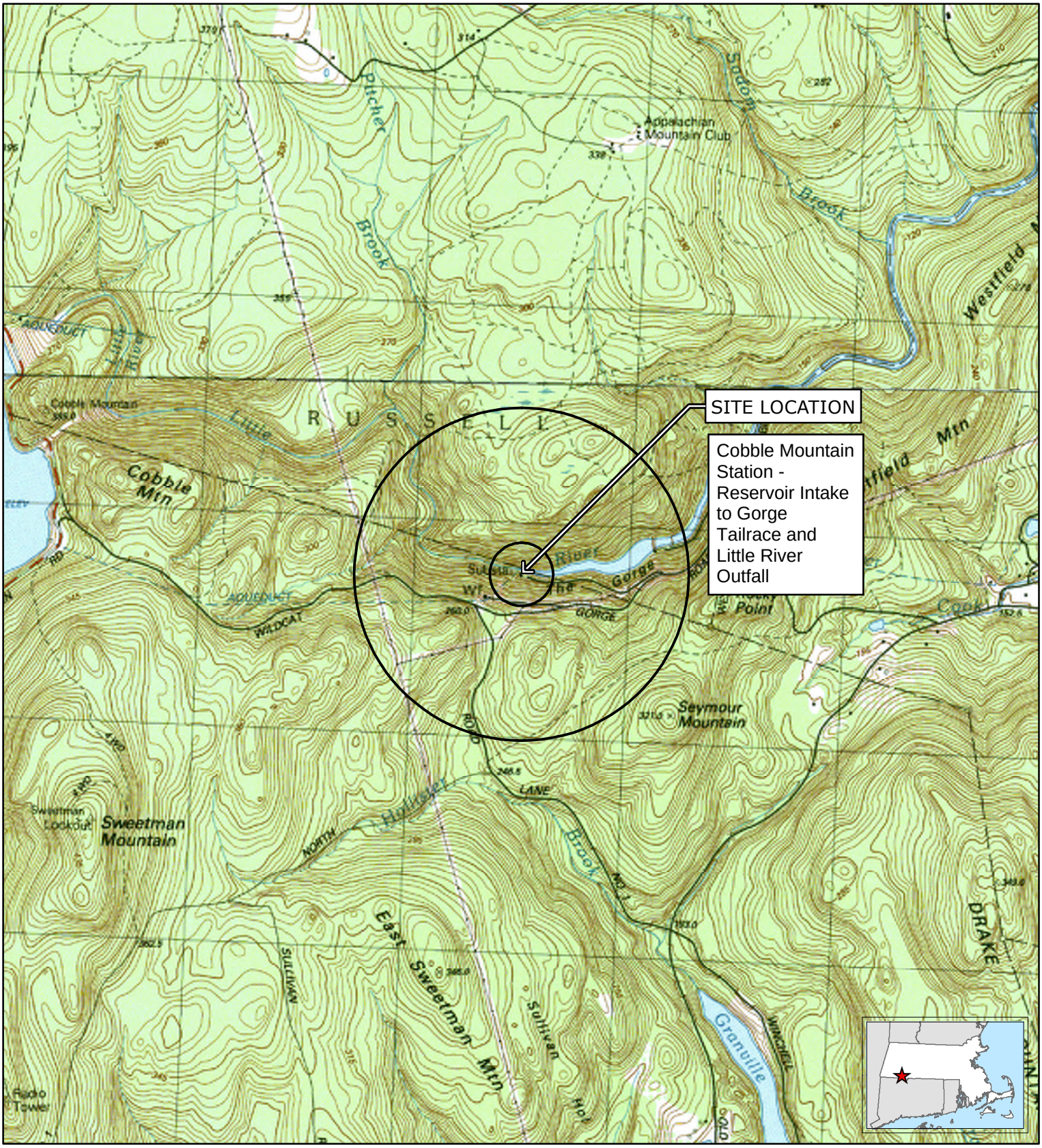

FIGURE 1
SITE LOCATION

Cobble Mountain
Gorge Road
Granville, Massachusetts

May 2023

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Based on USGS Topographic Map for
Southwick, MA Revised 1987. Contour Equals 3-meters. [Site Quad]
West Granville, MA Revised1987. Contour Equals 3-meters.
Blanford, MA Revised 1987. Contour Equals 6-meters.
Woronoco, MA Revised 1987. Contour Equals 6-meters.
Circles indicate 500-foot and half-mile radii

1:24,000
0 1,000 2,000
Feet

N

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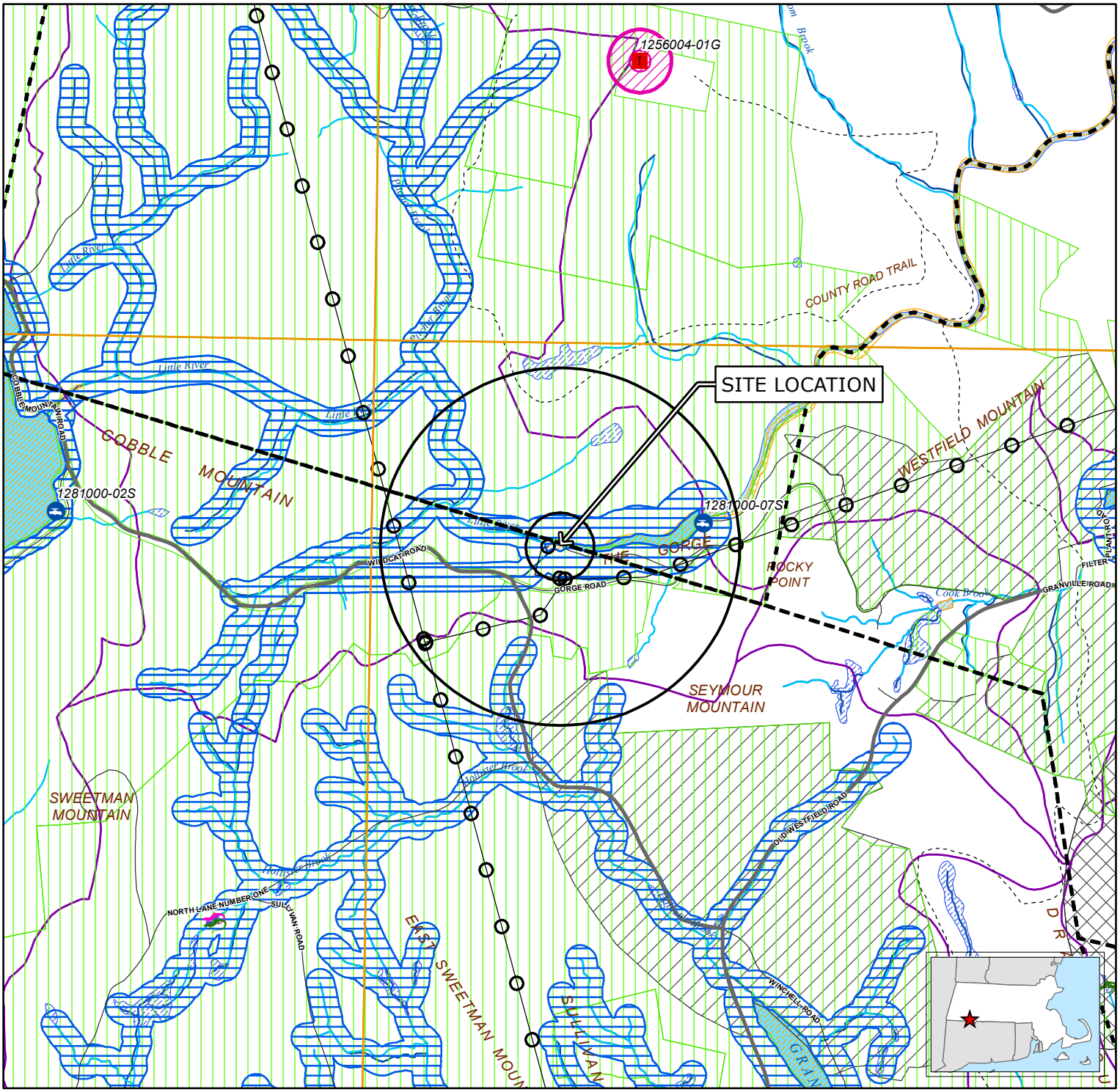

Legend

- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- Non-Landfill Solid Waste Sites
- Proposed Well
- Emergency Surface Water
- Community Public Water Supply - Surface Water
- Community Public Water Supply - Groundwater
- Non-Community Non-Transient Public Water Supply
- Non-Community Transient Public Water Supply
- Limited Access Highway
- Multi-Lane Highway, NOT Limited Access
- Other Numbered Route
- Major Road - Arterials and Collectors
- Minor Street or Road
- Aqueducts
- Hydrologic Connections
- Stream/Intermittent Stream
- Powerline
- Pipeline
- Track or Trail
- Trains
- Public Surface Water Supply Protection Area (Zone A)
- DEP Approved Wellhead Protection Area (Zone I)
- DEP Approved Wellhead Protection Area (Zone II)
- DEP Interim Wellhead Protection Area (IWPA)
- Protected and Recreational Open Space
- Solid Waste Landfill
- Area of Critical Environmental Concern (ACEC)
- NHESP Priority Habitats for Rare Species
- NHESP Estimated Habitats for Rare Wildlife
- EPA Designated Sole Source Aquifer
- Major Drainage Basin
- Sub Drainage Basin
- MassDEP Open Water
- MassDEP Inland Wetlands
- MassDEP Coastal Wetlands
- MassDEP Not Interpreted Wetlands
- Public Surface Water Supply (PSWS)
- Water Bodies
- Non-Potential Drinking Water Source Area - High Yield
- Non-Potential Drinking Water Source Area - Medium Yield
- Potentially Productive Medium Yield Aquifer
- Potentially Productive High Yield Aquifer
- County Boundary
- Municipal Boundary
- USGS Quadrangle Sheet Boundary

1:24,000

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Feet

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FIGURE 2
PRIORITY RESOURCES

Cobble Mountain
Gorge Road
Granville, Massachusetts

Data source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology
Circles indicate 500-foot and half-mile radii.
Data valid as of May 2023.

May 2023

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Legend

Municipal Boundary

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Based on MassGIS Color Orthophotography (2021)

1:4,800

0 200 400

Feet

N

FIGURE 3
ORTHOPHOTOGRAPH

Cobble Mountain
Gorge Road
Granville, Massachusetts

May 2023

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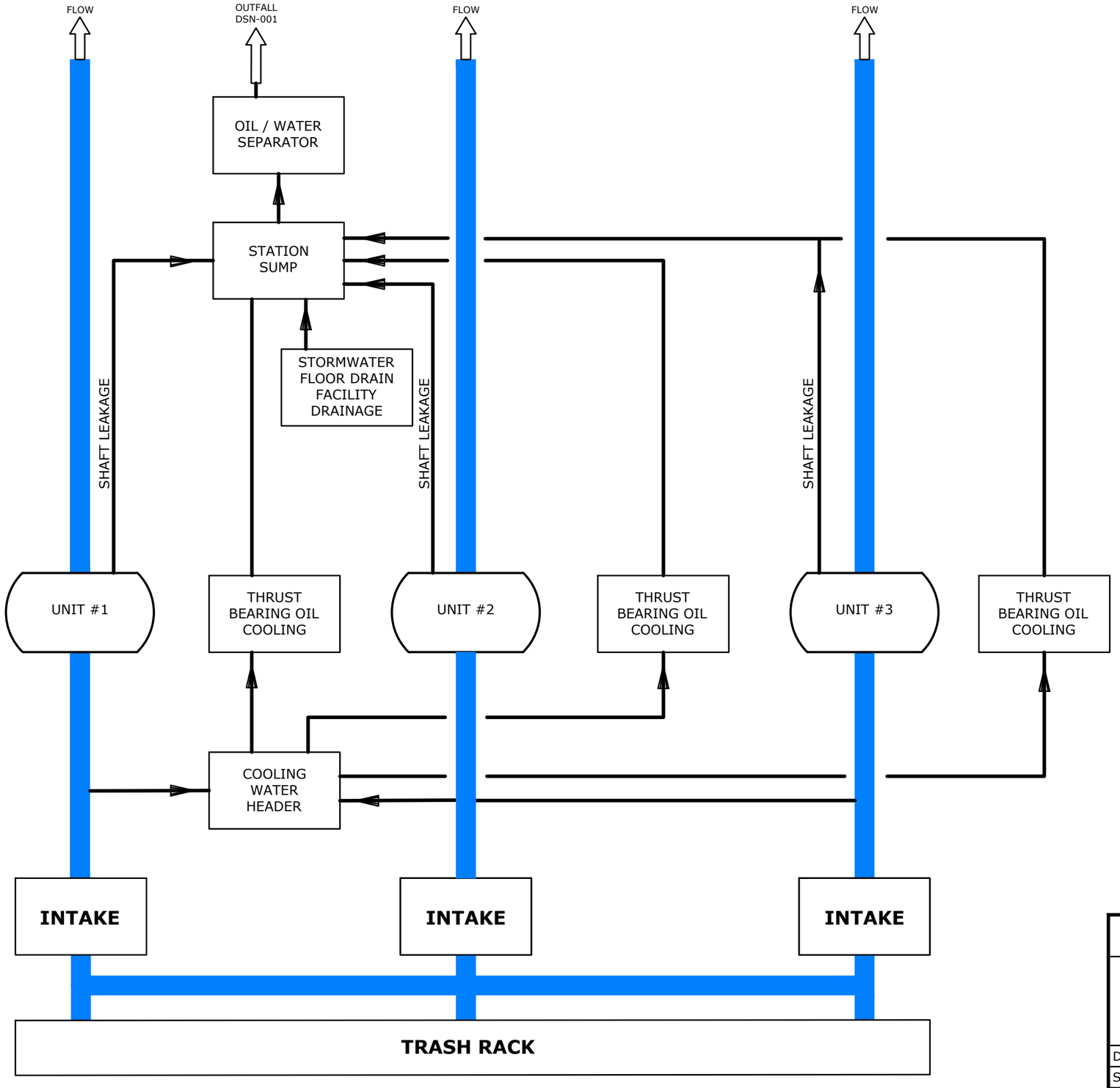

HOLYOKE GAS & ELECTRIC
HOLYOKE, MASSACHUSETTS

Cobble Mountain
Gorge Road
Westfield, Massachusetts

DATE: 6/5/2023
SCALE: NO SCALE

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SECTION 4

Section 4
Cooling Water Information

Cooling Water Intake Structure

Best Technology Available

Cobble Mountain Station complies with the Cooling Water Intake Structure (CWIS) Best Technology Available (BTA) requirements of the HYDRO GP, via of Section 4.2(b)(iv):

> *Other aspects of the location, design, construction, and capacity of the intake that minimize impingement mortality. For example, for an intake located within or after the penstock and which is not already subject to fish passage requirements, a Permittee may demonstrate that the volume of water flowing through the penstock relative to the volume of cooling water withdrawn minimizes the risk of impingement at the CWIS.*

Built in 1929, Cobble Mountain Station is located along the Little River in Westfield, Massachusetts. The dam and Cobble Mountain Reservoir are part of the Little River Water Supply System developed for the City of Springfield. The earthen dam is 240' high and retains 22.5 billion gallons of water. Cobble Mountain Station is a unique hydroelectric facility, as its function is to facilitate the discharge of drinking water to the West Parish Filters Water Treatment Plant, while generating nominal electricity during limited generation periods.

On a coordinated schedule, raw water flows from the Broome gate house through the penstock to the hydroelectric facility. The tailrace from the hydroelectric facility discharges to an impoundment known as The Gorge. Water from this impoundment may either be released back into the Little River streambed or sent by aqueduct to the West Parish Filters Water Treatment Plant.

Cooling water is drawn directly from the three facility penstocks. The Broome gate racking leading to the penstock is provided with 3-inch spacing to limit aquatic life and debris from entering the plant. A total of six, two-inch tap lines draw cooling water from the penstock into a single 3" header. The system is gravity fed.

Holyoke Gas and Electric believes that the volume of water flowing through the penstock relative to the volume of cooling water withdrawn minimizes the risk of impingement at each of the intake taps. With a total hydraulic capacity of 1,250 CFS for power generation, the service water intake capacity of 0.2 CFS represents 0.016% of the total water flow. Additionally, the elevation change between the reservoir and the power plant is over 400 feet. This results in a significant flow velocity and force through the penstock to the turbines, which is likely to prevent entrainment by the 2" intake pipes.

StreamStats Data-Collection Station Report

Gage Information

Name	Value
USGS Station Number	**01183500 (https://waterdata.usgs.gov/monitoring-location/01183500)**
Station Name	WESTFIELD RIVER NEAR WESTFIELD, MA
Station Type	Gaging Station, continuous record
Latitude	42.10676028
Longitude	-72.6989811
NWIS Latitude	42.1067602
NWIS Longitude	-72.698981
Is regulated?	true
Agency	United States Geological Survey
NWIS Discharge Period of Record	06/26/1914 - 06/01/2023

Physical Characteristics

Filter By Statistic Group: 4 Checked ▾ Filter By Citation: Select ▾

Land Cover Characteristics

Characteristic Name	Value	Units	Citation
Area_of_Lakes_and_Ponds	0.64	square miles	**193**

Basin Dimensional Characteristics

Characteristic Name	Value	Units	Citation
Drainage Area	497	square miles	**193**

Topographical Characteristics

Characteristic Name	Value	Units	Citation
Mean Basin Elevation	1200	feet	**193**
Mean Basin Slope ft per mi	28.8	feet per mi	**193**

Stream Channel Properties

Characteristic Name	Value	Units	Citation
Stream Length Total	53.9	miles	**3**

Characteristic Name	Value	Units	Citation

Streamflow Statistics

Filter By Statistic Group: 7 Checked Filter By Citation: Select Show Only Preferred

Peak-Flow Statistics

Statistic Name	Value	Units	Preferred?	Years of Record	Standard Error, percent	Variance	Lower 90% Prediction Interval	Upper 90% Prediction Interval	Citation	Comments
50-percent AEP flood	16130	cubic feet per second	✓	26	10.83	0.0022			**50**	Statistic Date Range 10/1/1915 - 9/30/1940
20-percent AEP flood	26090	cubic feet per second	✓	26	14.07	0.0037			**50**	Statistic Date Range 10/1/1915 - 9/30/1940
10-percent AEP flood	34430	cubic feet per second	✓	26	17.2	0.0055			**50**	Statistic Date Range 10/1/1915 - 9/30/1940
4-percent AEP flood	47250	cubic feet per second	✓	26	21.98	0.0089			**50**	Statistic Date Range 10/1/1915 - 9/30/1940
2-percent AEP flood	58640	cubic feet per second	✓	26	25.96	0.0123			**50**	Statistic Date Range 10/1/1915 - 9/30/1940
1-percent AEP flood	71760	cubic feet per second	✓	26	30.24	0.0165			**50**	Statistic Date Range 10/1/1915 - 9/30/1940

Statistic Name	Value	Units	Preferred?	Years of Record	Standard Error, percent	Variance	Lower 90% Prediction Interval	Upper 90% Prediction Interval	Citation	Comments
0.5-percent AEP flood	86900	cubic feet per second	✓	26	34.66	0.0214			**50**	Statistic Date Range 10/1/1915 - 9/30/1940
0.2-percent AEP flood	110500	cubic feet per second	✓	26	40.84	0.0291			**50**	Statistic Date Range 10/1/1915 - 9/30/1940
Regression est 50-percent AEP flood	8730	cubic feet per second	✓		42.27	0.031			**50**	
Regression est 20-percent AEP flood	14000	cubic feet per second	✓		43.73	0.033			**50**	
Regression est 10-percent AEP flood	18300	cubic feet per second	✓		44.44	0.034			**50**	
Regression est 4-percent AEP flood	24500	cubic feet per second	✓		47.24	0.038			**50**	
Regression est 2-percent AEP flood	29700	cubic feet per second	✓		49.28	0.041			**50**	
Regression est 1-percent AEP flood	35200	cubic feet per second	✓		51.91	0.045			**50**	
Regression est 0.5-percent AEP flood	41300	cubic feet per second	✓		53.83	0.048			**50**	

Statistic Name	Value	Units	Preferred?	Years of Record	Standard Error, percent	Variance	Lower 90% Prediction Interval	Upper 90% Prediction Interval	Citation	Comments
Regression est 0.2-percent AEP flood	50100	cubic feet per second	✓		57.58	0.054			**50**	
Weighted 20-percent AEP flood	24500	cubic feet per second	✓		13.34	0.00333			**50**	
Weighted 10-percent AEP flood	31500	cubic feet per second	✓		13.35	0.00473			**50**	
Weighted 4-percent AEP flood	41700	cubic feet per second	✓		19.74	0.00721			**50**	
Weighted 2-percent AEP flood	50100	cubic feet per second	✓		22.68	0.00946			**50**	
Weighted 1-percent AEP flood	59300	cubic feet per second	✓		25.71	0.01207			**50**	
Weighted 0.5-percent AEP flood	69100	cubic feet per second	✓		28.57	0.0148			**50**	
Weighted 0.2-percent AEP flood	83800	cubic feet per second	✓		32.47	0.01891			**50**	
Systematic peak years	26	years							**50**	
Peak years with historic adjustment	26	years							**50**	
Weighted 50-percent AEP flood	15500	cubic feet per second	✓		10.46	0.00205			**50**	

Statistic Name	Value	Units	Preferred?	Years of Record	Standard Error, percent	Variance	Lower 90% Prediction Interval	Upper 90% Prediction Interval	Citation	Comments
Mean square error WRC skew	0.2624	Log base 10 squared							**50**	
Weighted Skew	0.497	Log base 10							**50**	
EMA_Skew_of_Logs_of_Annual_Peaks	0.74	Log base 10							**50**	

Low-Flow Statistics

Statistic Name	Value	Units	Preferred?	Years of Record	Standard Error, percent	Citation	Comments
7 Day 2 Year Low Flow	116	cubic feet per second	✓			**24**	
7 Day 10 Year Low Flow	77.3	cubic feet per second	✓			**24**	

Flow-Duration Statistics

Statistic Name	Value	Units	Preferred?	Years of Record	Standard Error, percent	Citation	Comments
1 Percent Duration	5580	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
2 Percent Duration	4660	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
3 Percent Duration	4060	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
5 Percent Duration	3230	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
10 Percent Duration	2180	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015

Statistic Name	Value	Units	Preferred?	Years of Record	Standard Error, percent	Citation	Comments
15 Percent Duration	1660	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
20 Percent Duration	1330	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
25 Percent Duration	1120	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
30 Percent Duration	952	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
35 Percent Duration	829	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
40 Percent Duration	730	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
45 Percent Duration	640	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
50 Percent Duration	569	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
55 Percent Duration	499	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
60 Percent Duration	439	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
65 Percent Duration	380	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
70 Percent Duration	330	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
75 Percent Duration	280	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
80 Percent Duration	237	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
85 Percent Duration	200	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015

Statistic Name	Value	Units	Preferred?	Years of Record	Standard Error, percent	Citation	Comments
90 Percent Duration	164	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
95 Percent Duration	128	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
97 Percent Duration	109	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
98 Percent Duration	99	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
99 Percent Duration	87	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015

Annual Flow Statistics

Statistic Name	Value	Units	Preferred?	Years of Record	Standard Error, percent	Citation	Comments
Mean Annual Flow	952	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
Stand Dev of Mean Annual Flow	246	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
Maximum Annual Mean Flow	1590	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
Minimum Annual Mean Flow	368	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015

General Flow Statistics

Statistic Name	Value	Units	Preferred?	Years of Record	Standard Error, percent	Citation	Comments
Minimum daily flow	40	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015

Statistic Name	Value	Units	Preferred?	Years of Record	Standard Error, percent	Citation	Comments
Maximum daily flow	37400	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
Std Dev of daily flows	1200	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
Average daily streamflow	929.916	cubic feet per second	✓	90		**86**	
Harmonic Mean Streamflow	379	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
Mean_of_Logs_of_Daily_Values	2.764376	Log base 10	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
Std_Dev_of_Logs_of_Daily_Values	0.423142	Log base 10	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
Skew_of_Logs_of_Daily_Values	0.226689	Log base 10	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015
Non_Zero_Adjusted_Harmonic_Mean_Flow	379	cubic feet per second	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015

Base Flow Statistics

Statistic Name	Value	Units	Preferred?	Years of Record	Standard Error, percent	Citation	Comments
Number of years to compute BFI	89	years	✓	90		**87**	
Average BFI value	0.506	dimensionless	✓	90		**87**	
Std dev of annual BFI values	0.05	dimensionless	✓	90		**87**	

Probability Statistics

Statistic Name	Value	Units	Preferred?	Years of Record	Standard Error, percent	Citation	Comments
Probability zero flow durations	0	dimensionless	✓	101		**52**	Statistic Date Range 10/1/1914 - 9/30/2015

Citations

ID	Citation
193	**Imported from NWIS file (http://waterdata.usgs.gov/nwis/si)**
3	**Anderson, B.T., 2020, Magnitude and frequency of floods in Alabama, 2015: U.S. Geological Survey Scientific Investigations Report 2020–5032, 148 p. (https://doi.org/10.3133/sir20205032)**
50	**Zarriello, P.J., 2017, Magnitude of flood flows at selected annual exceedance probabilities for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2016–5156, 99 p. (https://dx.doi.org/10.3133/sir20165156)**
24	**Wandle, S.W., Jr. 1984, Gazetteer of Hydrologic Characteristics of Streams in Massachusetts--Connecticut River Basin: U.S. Geological Survey Water-Resources Investigations Report 84-4282. (http://pubs.er.usgs.gov/usgspubs/wri/wri844282)**
52	**Granato G.E., Ries, K.G., III, and Steeves, P.A., 2017, Compilation of streamflow statistics calculated from daily mean streamflow data collected during water years 1901–2015 for selected U.S. Geological Survey streamgages: U.S. Geological Survey Open-File Report 2017-1108, 17 p. (https://pubs.er.usgs.gov/publication/ofr20171108)**
86	**Wolock, D.M., 2003, Flow characteristics at U.S. Geological Survey streamgages in the conterminous United States: U.S. Geological Survey Open-File Report 03-146, digital data set (http://water.usgs.gov/GIS/metadata/usgswrd/XML/qsitesdd.xml)**
87	**Wolock, D.M., 2003, Base-flow index grid for the conterminous United States: U.S. Geological Survey Open-File Report 03-263, digital data set (https://water.usgs.gov/GIS/metadata/usgswrd/XML/bfi48grd.xml)**

Tighe&Bond

SECTION 5

Section 5
Endangered Species Submittal (Response Pending)

April 26, 2023

*****SENT VIA EMAIL*****

Melissa Grader
Fish and Wildlife Biologist
Migratory Fish/Hydropower Program
U.S. Fish and Wildlife Service/New England Field Office
103 East Plumtree Road, Sunderland, MA 01375
melissa_grader@fws.gov

Re: **Holyoke Gas and Electric Department (HG&E)**
Cobble Mountain Station
Westfield, Massachusetts
Hydroelectric Generating Facilities General Permit

Dear Ms. Grader:

Holyoke Gas and Electric is seeking coverage under the NPDES General Permit for Hydroelectric Generating Facilities (HYDROGP) for the Cobble Mountain Station in Westfield, Massachusetts. The three generating units in the main powerhouse generate 33 megawatts of power.

Built in 1929, Cobble Mountain Station is located along the Little River in Westfield, Massachusetts. The dam and Cobble Mountain Reservoir are part of the Little River Water Supply System developed for the City of Springfield. The earthen dam is 240' high and retains 22.5 billion gallons of water.

On a coordinated schedule, raw water flows from the Broome gate house through the penstock to the hydroelectric facility. The Broome gate racking is provided with 3-inch spacing to limit aquatic life and debris from entering the plant. The tailrace from the hydroelectric facility discharges to the Little River, which flows to the intake of the drinking water treatment plant. Discharges of wastewater from the treatment plant is conveyed via underground piping downstream of the intake to the treatment plant.

Wastewater at the treatment plant includes thrust bearing oil cooling water, as well as infiltrating stormwater, floor drains and general facility drainage. All discharges at the facility collect in the station sump prior to discharge into the Little River.

Based upon the age of the facility, the site is exempt from FERC permitting.

As part of this process, the USFW IPaC System, as well as the NMFS EFH Mapper were reviewed. A summary of the species in the action area of the facility are presented in the list below:

USFWS
- Northern Long Eared Bat (Endangered)
- Monarch Butterfly (Candidate)

NMFS
- None

In addition to the mapping tools mentioned, attached is a NE Consistency Letter for the Northern Long Eared Bat identifying our No Effect Determination. Furthermore, we don't

believe the facility discharges directly into the Little River will pose a risk to the Monarch Butterfly, with a typical habitat of prairies, meadows, grasslands and along roadsides.

We are reaching out to you in an effort to seek written concurrence on our finding that the discharges and related activities are "not likely to adversely affect" listed species or critical habitat. We have arrived at this conclusion based upon the information provided in this letter.

Lastly, as noted in the HYDRO GP, there is the potential for discharges of oil and grease, slightly elevated temperatures, or pH levels different from ambient associated with the wastewaters authorized by this permit. However, relative to the overall flow of water through this facility, the HYDROGP wastewater flows make up less than 1% of the total flow discharged from the plant. Therefore, there are not expected to be any adverse effects associated with the HYDROGP wastewaters specifically.

If you have any questions regarding this facility or the enclosed report, please contact me at (413) 875-1607. Thank you for your attention in this matter.

Very truly yours,

TIGHE & BOND, INC.

Timothy Kucab, CHMM
Project Manager

Enclosures

- USFW IPaC System Endangered Species Package
- USFW IPaC System NE Consistency Letter
- NMFS EFH Mapper

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104

In Reply Refer To: March 23, 2023
Project Code: 2023-0059336
Project Name: Holyoke Gas & Electric - Cobble Mountain

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Updated 3/8/2023 - Please review this letter each time you request an Official Species List, we will continue to update it with additional information and links to websites may change.

About Official Species Lists

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Federal and non-Federal project proponents have responsibilities under the Act to consider effects on listed species.

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested by returning to an existing project's page in IPaC.

Endangered Species Act Project Review

Please visit the "**New England Field Office Endangered Species Project Review and Consultation**" website for step-by-step instructions on how to consider effects on listed

species and prepare and submit a project review package if necessary:

https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review

NOTE Please do not use the **Consultation Package Builder** tool in IPaC except in specific situations following coordination with our office. Please follow the project review guidance on our website instead and reference your **Project Code** in all correspondence.

Northern Long-eared Bat - (Updated 3/8/2023) The Service published a final rule to reclassify the northern long-eared bat (NLEB) as endangered on November 30, 2022. The final rule will go into effect on **March 31, 2023**. After that date, the current 4(d) rule for NLEB will be invalid, and the 4(d) determination key will no longer be available. New compliance tools will be available in March 2023, and information will be posted in this section on our website and on the northern long-eared bat species page, so please check this site often for updates.

Depending on the type of effects a project has on NLEB, the change in the species' status may trigger the need to re-initiate consultation for any actions that are not completed and for which the Federal action agency retains discretion once the new listing determination becomes effective. If your project may result in incidental take of NLEB after the new listing goes into effect, this will need to be addressed in an updated consultation that includes an Incidental Take Statement. Many of these situations will be addressed through the new compliance tools. If your project may require re-initiation of consultation, please wait for information on the new tools to appear on this site or contact our office for additional guidance.

Additional Info About Section 7 of the Act
Under section 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to determine whether projects may affect threatened and endangered species and/or designated critical habitat. If a Federal agency, or its non-Federal representative, determines that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Federal agency also may need to consider proposed species and proposed critical habitat in the consultation. 50 CFR 402.14(c)(1) specifies the information required for consultation under the Act regardless of the format of the evaluation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/service/section-7-consultations

In addition to consultation requirements under Section 7(a)(2) of the ESA, please note that under sections 7(a)(1) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species. Please contact NEFO if you would like more information.

Candidate species that appear on the enclosed species list have no current protections under the ESA. The species' occurrence on an official species list does not convey a requirement to

consider impacts to this species as you would a proposed, threatened, or endangered species. The ESA does not provide for interagency consultations on candidate species under section 7, however, the Service recommends that all project proponents incorporate measures into projects to benefit candidate species and their habitats wherever possible.

Migratory Birds

In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see:

https://www.fws.gov/program/migratory-bird-permit

https://www.fws.gov/library/collections/bald-and-golden-eagle-management

Please feel free to contact us at **newengland@fws.gov** with your **Project Code** in the subject line if you need more information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat.

Attachment(s): Official Species List

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
(603) 223-2541

PROJECT SUMMARY

Project Code: 2023-0059336
Project Name: Holyoke Gas & Electric - Cobble Mountain
Project Type: Wastewater Discharge
Project Description: NOI NPDES GP Hydroelectric Generating Facility
Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.120904499999995,-72.85392579290888,14z

Counties: Hampden County, Massachusetts

ENDANGERED SPECIES ACT SPECIES

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

IPAC USER CONTACT INFORMATION

Agency:	Tighe & Bond, Inc.
Name:	Christopher Astephen
Address:	300 West Exchange Street
Address Line 2:	Suite 300
City:	Providence
State:	RI
Zip:	02903
Email	castephen@tighebond.com
Phone:	7748081791

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104

In Reply Refer To: March 23, 2023
Project code: 2023-0059336
Project Name: Holyoke Gas & Electric - Cobble Mountain
IPaC Record Locator: 134-124050079

Federal Nexus: yes
Federal Action Agency (if applicable): Environmental Protection Agency

Subject: Record of project representative's no effect determination for 'Holyoke Gas & Electric - Cobble Mountain'

Dear Christopher Astephen:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on March 23, 2023, for 'Holyoke Gas & Electric - Cobble Mountain' (here forward, Project). This project has been assigned Project Code 2023-0059336 and all future correspondence should clearly reference this number. **Please carefully review this letter.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into the IPaC must accurately represent the full scope and details of the Project. Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat Rangewide Determination Key (Dkey), invalidates this letter.

Determination for the Northern Long-Eared Bat

Based upon your IPaC submission and a standing analysis, your project has reached the determination of "No Effect" on the northern long-eared bat. To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action

and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17).

Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no consultation with the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13].

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination for the northern long-eared bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Monarch Butterfly *Danaus plexippus* Candidate

You may coordinate with our Office to determine whether the Action may affect the animal species listed above and, if so, how they may be affected.

Next Steps

Based upon your IPaC submission, your project has reached the determination of “No Effect” on the northern long-eared bat. If there are no updates on listed species, no further consultation/ coordination for this project is required with respect to the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place to ensure compliance with the Act.

If you have any questions regarding this letter or need further assistance, please contact the New England Ecological Services Field Office and reference Project Code 2023-0059336 associated with this Project.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

Holyoke Gas & Electric - Cobble Mountain

2. Description

The following description was provided for the project 'Holyoke Gas & Electric - Cobble Mountain':

> NOI NPDES GP Hydroelectric Generating Facility

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.120904499999995,-72.85392579290888,14z

DETERMINATION KEY RESULT

Based on the information you provided, you have determined that the Proposed Action will have no effect on the Endangered northern long-eared bat (Myotis septentrionalis). Therefore, no consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required for those species.

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of the northern long-eared bat or any other listed species?

   Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

   No

2. Does any component of the action involve construction or operation of wind turbines?

   Note: For federal actions, answer ‘yes’ if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

   No

3. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

   Yes

4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

   No

5. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

   Note: This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

   Yes

6. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

   Yes

7. Have you determined that your proposed action will have no effect on the northern long-eared bat? Remember to consider the effects of any activities that would not occur but for the proposed action.

   If you think that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, answer “No” below and continue through the key. If you have determined that the northern long-eared bat does not occur in your project’s action area and/or that your project will have no effects whatsoever on the species despite the potential for it to occur in the action area, you may make a “no effect” determination for the northern long-eared bat.

   Note: Federal agencies (or their designated non-federal representatives) must consult with USFWS on federal agency actions that may affect listed species [50 CFR 402.14(a)]. Consultation is not required for actions that will not affect listed species or critical habitat. Therefore, this determination key will not provide a consistency or verification letter for actions that will not affect listed species. If you believe that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, please answer “No” and continue through the key. Remember that this key addresses only effects to the northern long-eared bat. Consultation with USFWS would be required if your action may affect another listed species or critical habitat. The definition of Effects of the Action can be found here: https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions

   Yes

PROJECT QUESTIONNAIRE

Will all project activities by completed by April 1, 2024?

No

IPAC USER CONTACT INFORMATION

Agency: Tighe & Bond, Inc.
Name: Christopher Astephen
Address: 300 West Exchange Street
Address Line 2: Suite 300
City: Providence
State: RI
Zip: 02903
Email castephen@tighebond.com
Phone: 7748081791

LEAD AGENCY CONTACT INFORMATION

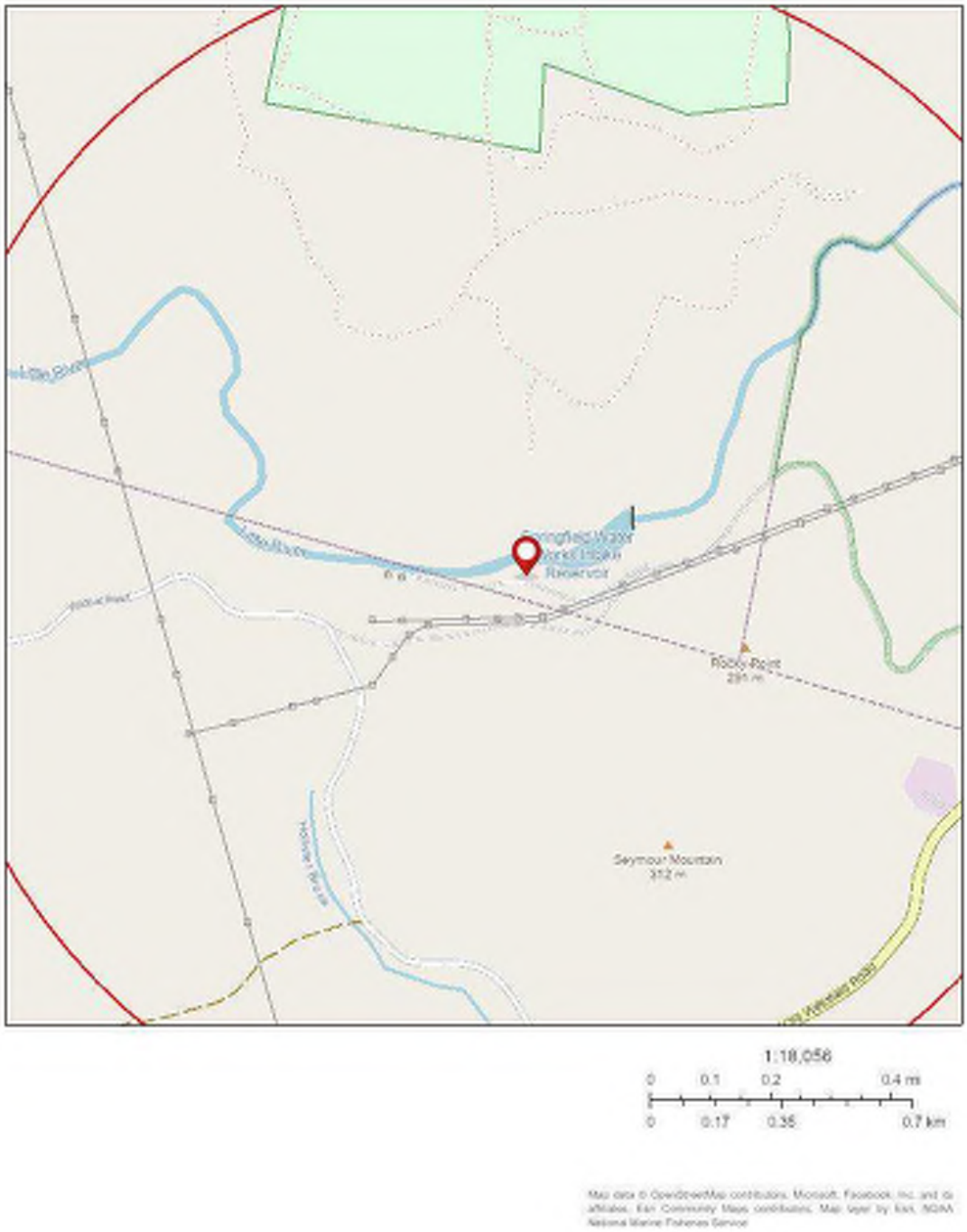
Lead Agency: Environmental Protection Agency

Holyoke Gas & Electric - Cobble Mountain

Area of Interest (AOI) Information

Area : 2,009.02 acres

Mar 23 2023 12:20:49 Eastern Daylight Time



Summary

Name	Count	Area(acres)	Length(mi)
All Critical Habitat Polyline	0	N/A	0
All Critical Habitat Polygon	0	0	N/A

Tighe&Bond

SECTION 6

Section 6
Historic Places Listings (None Present)

National Register of Historic Places
(01.19.2023)

Reference num	Property Name	Status	Request Ty	Restricted	Category of Pr	State	County	City	Street & Number
_85003371	First Congregational Church of Blandford	Listed	Single	FALSE	BUILDING	MASSACHUSETTS	Hampden	Blandford	North St.
_91001587	Granville Center Historic District	Listed	Single	FALSE	DISTRICT	MASSACHUSETTS	Hampden	Granville	Main Rd.
_91001588	Granville Village Historic District	Listed	Single	FALSE	DISTRICT	MASSACHUSETTS	Hampden	Granville	Roughly, area around jct. of Maple St. and Main and Granby Rds., including part of Water St.
_100002772	Rose, John and Ruth, House	Listed	Single	FALSE	building	MASSACHUSETTS	Hampden	Granville	944 Main Rd.
_91001589	West Granville Historic District	Listed	Single	FALSE	DISTRICT	MASSACHUSETTS	Hampden	Granville	Roughly, Main Rd. from W of Beach Hill Rd. to South Ln. No. 2
_96001524	Russell Center Historic District	Listed	Single	FALSE	DISTRICT	MASSACHUSETTS	Hampden	Russell	Jct. of Main and Lincoln Ave.
_01000746	Dewey, Joseph, House	Listed	Single	FALSE	BUILDING	MASSACHUSETTS	Hampden	Westfield	87 S. Maple St.
_82001914	Landlord Fowler Tavern	Listed	Single	FALSE	BUILDING	MASSACHUSETTS	Hampden	Westfield	171 Main St.
_02000632	Mechanic Street Cemetery	Listed	Single	FALSE	SITE	MASSACHUSETTS	Hampden	Westfield	Mechanic St.
_100005525	Moseley School	Listed	Single	FALSE	building	MASSACHUSETTS	Hampden	Westfield	25 Dartmouth St.
_82004967	Octagon House	Listed	Single	FALSE	BUILDING	MASSACHUSETTS	Hampden	Westfield	28 King St.
_08001069	Prospect Hill School	Listed	Single	FALSE	BUILDING	MASSACHUSETTS	Hampden	Westfield	33 Montgomery St.
_08001176	Sanford Whip Factory	Listed	Single	FALSE	BUILDING	MASSACHUSETTS	Hampden	Westfield	330 Elm St.
_83000769	State Normal Training School	Listed	Single	FALSE	BUILDING	MASSACHUSETTS	Hampden	Westfield	Washington St.
_83003983	United States Whip Company Complex	Listed	Single	FALSE	BUILDING	MASSACHUSETTS	Hampden	Westfield	24 Main St.
_87000037	Van Deusen, H. M., Whip Company	Listed	Single	FALSE	BUILDING	MASSACHUSETTS	Hampden	Westfield	42 Arnold St.
_08000506	Westfield Center Commercial Historic District	Listed	Single	FALSE	DISTRICT	MASSACHUSETTS	Hampden	Westfield	91-115, 100-174 Elm St.
_13000441	Westfield Center Historic District	Listed	Single	FALSE	DISTRICT	MASSACHUSETTS	Hampden	Westfield	0-362 Elm, 2-86 Broad, 0-83 Court, 2-24 Main, 0-71 N. Elm, Chestnut, W. Silver & Union Sts.
_78000449	Westfield Municipal Building	Listed	Single	FALSE	BUILDING	MASSACHUSETTS	Hampden	Westfield	59 Court St.
_85003233	Westfield Whip Manufacturing Company	Listed	Single	FALSE	BUILDING	MASSACHUSETTS	Hampden	Westfield	360 Elm St.

National Register of Historic Places
(01.19.2023)

External Link	Level of Sig	Level of Sig	Level of Sig	Level of Sig	Level of Sig	Listed Date	Other Names	Status Date	Area of Significance
https://catalog.archives.gov/id/63795289	False	False	False	False	True	10/24/1985	Old White Church	10/24/1985	ARCHITECTURE
https://catalog.archives.gov/id/63795259	False	True	False	False	False	11/5/1991		11/5/1991	COMMUNITY PLANNING AND DEVELOPMENT; POLITICS/GOVERNMENT; ARCHITECTURE
https://catalog.archives.gov/id/63795261	False	True	False	False	False	11/5/1991		11/5/1991	INDUSTRY; COMMUNITY PLANNING AND DEVELOPMENT; ARCHITECTURE
	False	True	False	False	False	8/10/2018		8/10/2018	AGRICULTURE; ARCHITECTURE
https://catalog.archives.gov/id/63795159	False	True	False	False	False	11/5/1991		11/5/1991	COMMUNITY PLANNING AND DEVELOPMENT; AGRICULTURE; ARCHITECTURE
https://catalog.archives.gov/id/63795329	False	True	False	False	False	12/27/1996		12/27/1996	ARCHITECTURE; TRANSPORTATION; INDUSTRY
https://catalog.archives.gov/id/63795321	False	True	False	False	False	7/27/2001		7/27/2001	ARCHITECTURE; SOCIAL HISTORY; EXPLORATION/SETTLEMENT
https://catalog.archives.gov/id/63795305	False	True	False	False	False	8/11/1982		8/11/1982	MILITARY; TRANSPORTATION; ARCHITECTURE
https://catalog.archives.gov/id/63795355	False	True	False	False	False	6/26/2002		6/26/2002	SOCIAL HISTORY; ART; RELIGION
	False	True	False	False	False	9/4/2020		9/4/2020	ARCHITECTURE; EDUCATION
https://catalog.archives.gov/id/63795199	False	True	False	False	False	4/1/1982	Watson-Steiger-Loomis House	4/1/1982	COMMERCE; ARCHITECTURE
https://catalog.archives.gov/id/63795347	False	True	False	False	False	11/19/2008		11/19/2008	ARCHITECTURE; EDUCATION
https://catalog.archives.gov/id/63795349	False	True	False	False	False	12/10/2008	Advance Whip and Novelty Company	12/10/2008	ARCHITECTURE; COMMUNITY PLANNING AND DEVELOPMENT; INDUSTRY
https://catalog.archives.gov/id/63795281	False	False	False	False	True	7/7/1983	Washington Street School	7/7/1983	EDUCATION; ARCHITECTURE
https://catalog.archives.gov/id/63795295	False	False	True	False	False	11/29/1983	United States Line Company Complex	11/29/1983	INDUSTRY; TRANSPORTATION; ARCHITECTURE; INVENTION
https://catalog.archives.gov/id/63795301	False	True	False	False	False	2/18/1987	Stanley Home Products Company	2/18/1987	INDUSTRY; TRANSPORTATION; ARCHITECTURE
https://catalog.archives.gov/id/63795211	False	True	False	False	False	6/10/2008		6/10/2008	ARCHITECTURE; COMMERCE; COMMUNITY PLANNING AND DEVELOPMENT
	False	True	False	False	False	6/25/2013		6/25/2013	ARCHITECTURE; COMMUNITY PLANNING AND DEVELOPMENT; COMMERCE
https://catalog.archives.gov/id/63795283	False	False	False	False	True	3/8/1978	State Normal School	3/8/1978	EDUCATION; ARCHITECTURE
https://catalog.archives.gov/id/63795297	False	True	False	False	False	10/17/1985		10/17/1985	INDUSTRY; ARCHITECTURE

Tighe&Bond

SECTION 7

Section 7
Impaired Waters Listing (No Impairments)

Final Massachusetts Integrated List of Waters for the Clean Water Act 2018/2020 Reporting Cycle

CN 505.1

Commonwealth of Massachusetts
Executive Office of Energy and Environmental Affairs
Kathleen A. Theoharides, Secretary
Massachusetts Department of Environmental Protection
Martin Suuberg, Commissioner
Bureau of Water Resources
Kathleen Baskin, Assistant Commissioner

Category 3 waters listed alphabetically by major watershed
"No uses assessed"

Waterbody	AU_ID	Description	Size	Units
Queset Brook	MA62-68	From outlet Longwater Pond, Easton to mouth at confluence with Coweeset Brook, West Bridgewater (formerly part of 2014 segment: Queset Brook MA62-21).	3.30	Miles
Robbins Pond	MA62162	East Bridgewater.	124.00	Acres
Route One Pond, West	MA62165	Wrentham.	10.00	Acres
Snake River	MA62-28	Headwaters, outlet Winnecunnet Pond, Norton to mouth at inlet of Lake Sabbatia, Taunton.	3.30	Miles
Sunset Lake	MA62184	Foxborough.	13.00	Acres
The Reservoir	MA62189	Lakeville.	23.00	Acres
Thurston Street Pond	MA62192	Wrentham.	7.00	Acres
Tispaquin Pond	MA62195	Middleborough.	195.00	Acres
Upper Leach Pond	MA62123	(Mountain Street Pond) Sharon.	28.00	Acres
Weir Village South Pond	MA62207	northeast of the railroad tracks west of Linden Street, Taunton.	14.00	Acres
Whiteville Pond	MA62211	Mansfield.	14.00	Acres
Winnetuxet River	MA62-24	Headwaters, confluence of Muddy Pond Brook and Doten Brook, Carver to mouth at confluence with the Taunton River, Halifax.	12.10	Miles
Wolomolopoag Pond	MA62216	Sharon.	13.00	Acres
Ten Mile				
Greenwood Lake	MA52017	Mansfield/North Attleborough.	96.00	Acres
Hoppin Hill Reservoir	MA52021	North Attleborough.	22.00	Acres
Manchester Pond Reservoir	MA52026	Attleboro.	238.00	Acres
Westfield				
Abbott Brook	MA32-62	Headwaters (perennial portion), north of Abbott Hill Road, Chester to mouth at confluence with West Branch Westfield River, Chester.	2.50	Miles
Arm Brook	MA32-58	Headwaters (perennial portion), south of Summit Lock Road, Westfield to inlet unnamed pond west of Barbara Street, Westfield.	1.70	Miles
Ashley Cutoff	MA32001	Holyoke.	31.00	Acres
Ashley Pond	MA32002	Holyoke.	133.00	Acres
Barry Brook	MA32-57	Headwaters, outlet Snake Pond, Holyoke to mouth at confluence with Trask Brook (forming headwaters Bush Brook), Westfield.	2.60	Miles
Borden Brook Reservoir	MA32011	Granville/Blandford.	211.00	Acres
Bush Brook	MA32-56	Headwaters, confluence of Barry and Trask brooks, east of Sherwood Avenue, Westfield to mouth at confluence with Pond Brook, Westfield.	0.70	Miles
Clear Pond	MA32077	Holyoke.	10.00	Acres
Cobble Mountain Reservoir	MA32018	Blandford/Granville/Russell.	1,034.00	Acres
Connor Reservoir	MA32024	Holyoke.	17.00	Acres
Cook Brook	MA32-38	Headwaters, outlet small unnamed pond west of the intersection of Gorge and Granville roads, Westfield to mouth at confluence with Little River, Westfield.	2.00	Miles
Cooley Lake	MA32026	Granville.	66.00	Acres
Crooked Pond	MA32028	Plainfield.	34.00	Acres
Damon Pond	MA32029	Chesterfield/Goshen.	77.00	Acres
Garnet Lake	MA32037	Peru.	17.00	Acres

Category 3 waters listed alphabetically by major watershed
"No uses assessed"

Waterbody	AU_ID	Description	Size	Units
Geer Brook	MA32-43	Headwaters, outlet Garnet Lake, Peru to mouth at confluence with Factory Brook, Middlefield.	1.80	Miles
Granville Reservoir	MA32038	Granville.	74.00	Acres
Hammond Pond	MA32040	Goshen.	38.00	Acres
Kellog Brook	MA32-55	Headwaters (perennial portion), east of College Highway (Route 202), Southwick to mouth at confluence with Great Brook, Westfield.	2.80	Miles
Little River	MA32-35	Source, outlet of Cobble Mountain Reservoir, Russell to Springfield Water Works Intake Dam (NATID: MA00708) northwest of Gorge Road, Russell (formerly part of segment MA32-26).	2.60	Miles
Littleville Lake	MA32046	Chester/Huntington.	252.00	Acres
Mclean Reservoir	MA32050	Holyoke.	55.00	Acres
North Railroad Pond	MA32053	Holyoke.	9.00	Acres
Norwich Pond	MA32054	Huntington.	116.00	Acres
Robin Hood Lake	MA32057	Becket.	63.00	Acres
Rudd Pond	MA32060	Becket.	72.00	Acres
Russell Pond	MA32061	Russell.	82.00	Acres
Scout Pond	MA32063	Chesterfield.	37.00	Acres
Steep Bank Brook	MA32-53	Headwaters (perennial portion), northeast of Bates Road, Windsor to mouth at confluence with Westfield River, Windsor.	1.00	Miles
Westfield Reservoir	MA32074	Montgomery.	40.00	Acres
Wright Pond	MA32078	Holyoke.	28.00	Acres
Yokum Pond	MA32079	Becket.	98.00	Acres