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
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A. Facility Information

1.	Facility Location	Name: Red Bridge Station		
		Street: 5 Red Bridge Road		
		City: Wilbraham	State: MA	
		Zip: 01095	SIC Code: 4911	
		Latitude: 42° 10' 33"	Longitude: -72° 24' 34"	
		Type of Business: ELECTRIC POWER GENE	RATION	
2.	Facility Mailing Address (if different from Location)	Street: 670 N. COMMERCIAL ST SUITE 204		
	,	City: MANCHESTER	State: NH	
		Zip: 03101		
3.	Facility Owner	Name: PATRIOT HYDRO, LLC	Email: BCLAY@PATRIOTHYDRO.COM	
		Street: 670 N. COMMERCIAL ST SUITE 204	Telephone: (603) 343-7991	

	City: MANCHESTER	State: 1	NH	
	Contact Person: BRAD CLAY	Zip: 03	3101	
4. Facility Operator (if differ above)	ent from Name:	Email:		
	Street:	Teleph	ione:	
	City:	State:		
	Zip:			
5. Current Permit Status	1 1	Has prior HYDROGP coverage been granted for the discharge(s) listed in the NOI?		□ No
	Permit number (if yes): MAG	360021		
	Is the facility covered under an	Is the facility covered under an Individual Permit?		☑ No
	Is there a pending NPDES app for the discharge(s)?	lication of file with EPA	☐ Yes	☑ No
	Date of Submittal (if yes): Clic date.	k or tap to enter a P	Permit Number (if kno	wn):
		Attach a topographic map indicating the locations. of the facility and outfall(s) to the receiving water		hed
	Number of turbines: 2			
	Combined turbine discharge (in capacity) at:	Combined turbine discharge (installed capacity) at: Maxim Minim		
	Is this facility operated as a pu	mp storage project?	☐ Yes	☑ No

B. Discharge Information

1.	Name of Receiving Water(s): Chicopee			✓ Freshwate	er Marine
2.	Waterbody classification: Class A	✓Class B	☐ Class SA	☐ Class SE	3
3.	Is the receiving water is listed in the State's Inte 303(d))?	egrated List of Waters	(i.e., CWA Section	✓Yes	□ No
4.	4. If the applicant answered yes to B.2, 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.				∠ Line Dr	rawing Attached
6.	List each outfall (numbered sequentially) dischar monthly flow (in gallons per day) for each disc descriptions and permit conditions for each disc	harge type. See Parts			
	Equipment-related cooling water	Outfalls: 002, 006		6960	gpd
	Equipment and floor drain water	Outfalls: 003, 004,	007	241	gpd
	Maintenance-related water	Outfalls:			gpd
	Facility maintenance-related water during flood/high water events	Outfalls:			gpd
	Equipment-related backwash strainer water	Outfalls:			gpd

alternative pH effluent lii	ove, provide the following information (at mits. See Parts 1.7.l. and 2.7.l of the permit formation and protocol to request alternate	t for addition	onal information. Contact MassDEP or I	
Outfall No. 002	Latitude: 42° 10' 33"		Longitude: -72° 24' 34"	
	Discharge is:	☐ Inte	rmittent Seasonal	
	Maximum Daily Flow 0.00348 MGD		Average Monthly Flow >0<0.00348 MGD	
	Maximum Daily Temperature Varies	°F	Average Monthly Temperature Varies	°F
	Maximum Daily Oil & Grease 15	mg/L	Average Monthly Oil & Grease >0<15	mg/L
	Maximum Monthly pH	8.3 s.u.	Minimum Monthly pH	6.5 s.u.
	Alternative pH limits requested? □Y	es 🗹 No	State approval attached?	s 🗆 No
Outfall No. 003	Latitude: 42° 10' 33"		Longitude: -72° 24' 34"	
	Discharge is: Continuous	☑ Intern	mittent Seasonal	
	Maximum Daily Flow	0.00012 MGD	Average Monthly Flow	>0<0.00012 MGD
	Maximum Daily Temperature Varies	°F	Average Monthly Temperature Varies	°F
	Maximum Daily Oil & Grease 15	mg/L	Average Monthly Oil & Grease >0 <15	mg/L
	Maximum Monthly pH 8.3 s.u.		Minimum Monthly pH 6.5 s.u.	
	Alternative pH limits requested?	es ⊘ No	State approval attached? Yes	□ No

Outfall No. 004	Latitude: 42° 10' 33"	Longitude: -72° 24' 34"
	Discharge is: ☐ Continuous ☑ Inter	mittent Seasonal
	Maximum Daily Flow 0.000001 MGD	Average Monthly Flow >0<0.000001 MGD
		Average Monthly Temperature °F Varies
	Maximum Daily Oil & Grease 15 mg/L	Average Monthly Oil & Grease mg/L >0<15
	Maximum Monthly pH 8.3 s.u.	Minimum Monthly pH 6.5 s.u.
	Alternative pH limits requested? □Yes ✓ No	State approval attached? ☐ Yes ☐ No
Outfall No. 006	Latitude: 42° 10' 33"	Longitude: -72° 24' 34"
	Discharge is: ✓ Continuous ☐ Inte	ermittent Seasonal
	Maximum Daily Flow 0.00348 MGD	Average Monthly Flow >0<0.00348 MGD
	Maximum Daily Temperature °F Varies	Average Monthly Temperature °F Varies
	Maximum Daily Oil & Grease 15 mg/L	Average Monthly Oil & Grease mg/L >0<15
	Maximum Monthly pH 8.3 s.u.	Minimum Monthly pH 6.5 s.u.
	Alternative pH limits requested? □Yes ✓ No	State approval attached? ☐ Yes ☐ No

Outfall No. 007	Latitude: 42° 10' 33"	Longitude: -72° 24' 34"		
	Discharge is: ☐ Continuous ☑ Inte	ermittent		
	Maximum Daily Flow .00025 MGD	Average Monthly Flow .000125 MGD		
	Maximum Daily Temperature °F Varies	Average Monthly Temperature °F Varies		
	Maximum Daily Oil & Grease 15 mg/L	Average Monthly Oil & Grease >0<15 mg/L		
	Maximum Monthly pH 8.3 s.u.	Minimum Monthly pH 6.5 s.u.		
	Alternative pH limits requested? ☐ Yes☑ No	State approval attached? Yes No		
C. Best Technology Available	e for Cooling Water Intake Structures			
Facilities that checked "equipments."	ment-related cooling" as one of the discharges in	Part B. of this NOI are subject to the following		
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.				
·	hnology employed to comply with the general BTA re	-		
□ 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				
\square 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? \square Yes \square No				

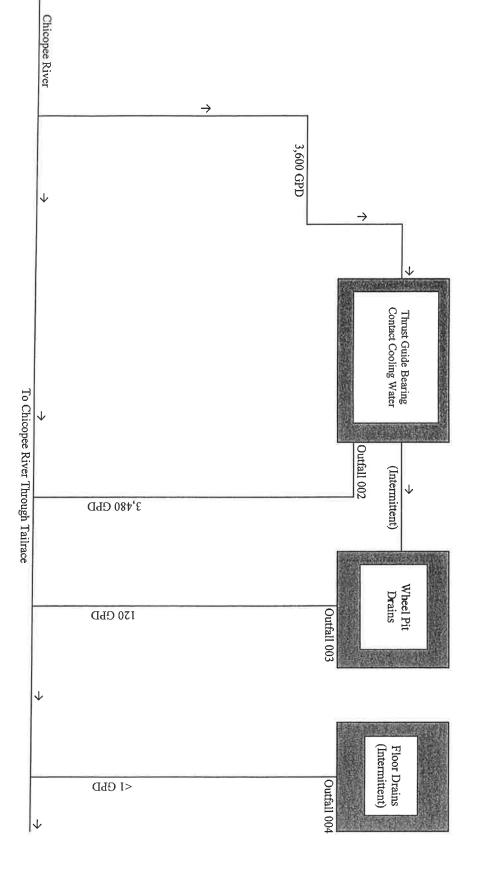
\Box For cooling water withdrawn directly from the source waterbody (i.e., not from within the penstock	x), a physical screen or other			
barrier technology with a mesh size no greater than ½-inch) that minimizes the potential for adult and juvenile fish to become				
entrapped in the CWIS.				
Has the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

D. Chemical Additives			
1. Does the facility use or adjustment?	plan to use non-toxic chemicals for pH	☐ Yes ☑ No	
2. Does the facility use or purposes?	, 1 Les L 140		
3. If the answer to D.2 is y	es, provide the following for EACH chem	ical additive used for anti-freeze:	
Chemical Name and Manufac	eturer:		
Maximum Dosage Concentra	tion Used:	Average Dosage Concentration Used:	
Maximum Concentration in D mg/L	Discharge:	Average Concentration in Discharge: mg/L	
Material Safety Data Sheet (N	MSDS) or other toxicity documentation	for each chemical attached? \square Yes \square 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:			
ESA eligibility for			
species under	discharges or related activities or come in contact with the "action area." See Appendix 2, Part B for		
jurisdiction of USFWS	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? \square Yes \square No			
2.	ESA eligibility for	Is the facility located on: the Connecticut River between the Massachusetts/Connecticut state line			
	species under	and Turners Falls, MA; the Taunton River; the Merrimack River between Lawrence, MA and the			
	jurisdiction of NMFS	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 <i>and</i> 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 Nat	F. National Historic Properties Act Eligibility				
1.		iterion the discharge(s) is eligible for covered under the HYDROGP:			
1.	1. Indicate under which effection the discharge(s) is engione for covered under the 111 DROOT.				
	✓ 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.				
	1 1 1				

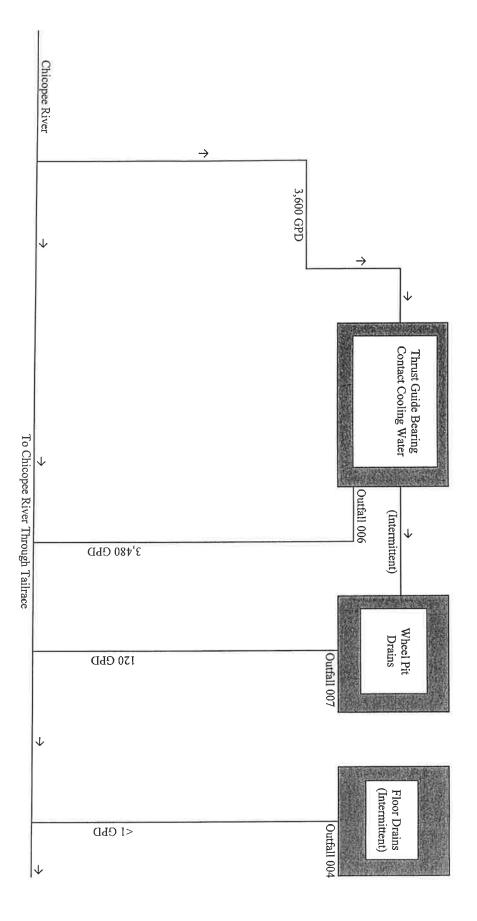
Has the applicant attached supporting documentation for NHPA eligibility described in Appendix 3	3, Part C of the HYDROGP?		
□ Yes ☑ No			
3. Does supporting documentation include a written agreement from the State Historic Preservation C	Officer, Tribal Historic Preservation		
Officer, or other tribal representative that outlines measures the operation will carry out to mitiga	te or prevent any adverse		
effects on historic properties? □ Yes ☑ No			
areason macro properties. El 166 El 176			
G. Supplemental Information			
Please provide any supplemental information, including antidegradation review information applic	cable to new or increased		
discharges. Attach any certifications required by the HYDROGP. Supplemental information attach	ned?□ Yes ☑ No		
H. Signature Requirements			
1. The NOI must be signed by the operator in accordance with the signatory requirements of 40 C.F.F.	8 8 122 22 including the following		
certification:	t. 3 122.22, mordaing the following		
CONTINUEDI.			
I certify under penalty of law that no chemical additives are used in the discharges to be autho	orized under this General		
Permit except for those used for pH adjustment or anti-freeze purposes and that this document			
prepared under my direction or supervision in accordance with a system designed to assure th			
properly gather and evaluate the information submitted. Based on my inquiry of the person or			
system, or those directly responsible for gathering the information, I certify that the information			
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: But the Clause	Date: 6/12/2023		
Signature: Beadley Clary			
Print Name and Title: Bradley Clay Environmental Health and Safety Manager			

Site Locus Map Red Bridge Station Wilbraham, Massachusetts



1 of 1

Essential Power Massachusetts, LLC
NPDES Permit Renewal
Water Flow Schematic
Red Bridge Station-Unit 4
EPA ID # MAG360021





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: April 26, 2023

Project Code: 2023-0074484

Project Name: Red Bridge Hydroelectric

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 4/12/2023 - 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 <u>do not</u> 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 4/12/2023**) The Service published a final rule to reclassify the northern long-eared bat (NLEB) as endangered on November 30, 2022. The final rule went into effect on March 31, 2023. You may utilize the **Northern Long-eared Bat Rangewide Determination Key** available in IPaC. More information about this Determination Key and the Interim Consultation Framework are available on the northern long-eared bat species page:

https://www.fws.gov/species/northern-long-eared-bat-myotis-septentrionalis

For projects that previously utilized the 4(d) Determination Key, 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 was not completed by March 31, 2023, and may result in incidental take of NLEB, please reach out to our office at newengland@fws.gov to see if reinitiation is necessary.

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

04/26/2023

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: 2023-0074484

Project Name: Red Bridge Hydroelectric

Project Type: Power Gen - Hydropower - Non-FERC

Project Description: Npdes General Permit

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.17591555,-72.40961166084537,14z



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 Fisheries¹, 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.

1. <u>NOAA Fisheries</u>, 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

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

INSECTS

NAME STATUS

Monarch Butterfly *Danaus plexippus*

Candidate

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743

CRITICAL HABITATS

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

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: Patriot Hydro, LLc

Name: Brad Clay

Address: 670 N. Commercial Street Suite 204

City: Manchester

State: NH Zip: 03101

Email bclay@patriothydro.com

Phone: 6033437991