



The State of New Hampshire FEB 13 '19 PM 12:17 DAS  
**Department of Environmental Services**



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*79*

**Robert R. Scott, Commissioner**

February 7, 2018

His Excellency, Governor Christopher T. Sununu  
and The Honorable Council  
State House  
Concord, NH 03301

**REQUESTED ACTION**

Approve Daniel W. Ayer Revocable Trust's request to perform the following work on Cocheco River in Dover. File # 2018-00515. This project will not have significant impact on or adversely affect the values of Cocheco River.

An amendment request was received by NHDES, dated November 26, 2018, to change the size, location and configuration of the originally approved tidal docking structure, in order to meet the requirements outlined by the US Army Corps of Engineers. The New Hampshire Department of Environmental Services (NHDES) has reviewed and approved the above referenced application to amend NHDES Permit 2018-00515 to impact 984 square feet of tidal wetland to replace an existing tidal docking structure. The new structure will be constructed from an existing 4 foot x 4 foot landing and stairs (located landward of the highest observable tide line) and consist of a 3 foot x 32 foot ramp connected to a 10 foot x 12 foot seasonal landing float connected to six 8 foot x 16 foot seasonal floats configured parallel to the river channel. The overall structure length seaward of the highest observable tide line is 40 feet, providing eight slips on 502.5 feet of frontage on the Cocheco River.

The New Hampshire Department of Environmental Services (NHDES) imposed the following conditions as part of this approval:

1. **AMENDED:** All work shall be in accordance with plans by MJS Engineering dated January 31, 2018, and revised through October 04, 2018, last received by the NHDES on November 26, 2018.
2. No less than 5 state business days prior to starting work authorized by this permit, the permittee shall notify the NHDES Wetlands Bureau Pease office and the local conservation commission in writing of the date on which work under this permit is expected to start.
3. **AMENDED:** This amended permit shall not be effective until recorded at the Strafford County Registry of Deeds office by the permittee. A copy of the recorded permit shall be submitted to the NHDES Wetlands Bureau prior to construction.
4. Any future work in jurisdiction as specified in RSA 482-A on this property will require a new application and approval by the NHDES Wetlands Bureau.
5. No person undertaking any activity shall cause or contribute to, or allow the activity to cause or contribute to, any violations of the surface water quality standards in RSA 485-A and New Hampshire Administrative Rule Env-Wq 1700.
6. **AMENDED:** This tidal docking structure constructed from an existing 4 foot x 4 foot landing and stairs (located landward of the highest observable tide line) and consisting of a 3 foot x 32 foot ramp, a 10 foot x 12 foot seasonal landing float and six 8 foot x 16 foot seasonal floats configured parallel to the river channel with an overall structure length seaward of the highest observable tide line of 40 feet, providing eight slips on 502.5 feet of frontage on the Cocheco River, shall be the only docking structure on this water frontage.
7. There shall be no removal of mature trees along the shoreline of the river on this property associated with the construction of the dock and access way.

8. Construction of the dock shall occur from a barge equipped with a crane, at low tide, to reduce potential impacts to the river bank and the estuarine intertidal and subtidal wetlands.
9. Decking shall have at least 3/4-inch spacing between the decking planks to provide sufficient sunlight penetration and rainfall to underlying vegetation.
10. Appropriate siltation/erosion/turbidity controls shall be in place prior to construction, shall be maintained during construction, and shall remain in place until the area is stabilized.
11. Work shall be conducted in a manner so as to minimize turbidity and sedimentation to surface waters and wetlands.
12. Work shall be conducted in a manner that avoids excessive discharges of sediments to fish spawning areas.
13. The seasonal structures, including but not limited to the gangway and float, shall be removed during the non-boating season and stored on the existing pier or in an upland location.
14. All construction-related debris shall be properly disposed of outside of the areas subject to RSA 482-A.
15. Within three days of final grading or temporary suspension of work in an area that is in or adjacent to wetlands or surface waters, all exposed soil areas shall be stabilized by seeding and mulching during the growing season, or if not within the growing season, by mulching with tack or netting and pinning on slopes steeper than 3:1.?

#### EXPLANATION

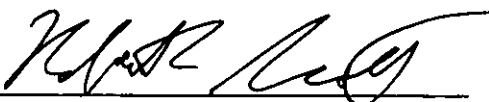
The NHDES approved this project on January 8, 2019. The NHDES supported its decision with the following findings:

1. This is a Major Project per New Hampshire Administrative Rule Env-Wt 303.02(a), projects in sand dunes, tidal wetlands, or bogs, except for the repair of existing structures pursuant to New Hampshire Administrative Rule Env-Wt 303.04(v).
2. The applicant has provided evidence which demonstrates that this proposal is the alternative with the least adverse impact to areas and environments under the department's jurisdiction per New Hampshire Administrative Rule Env-Wt 302.03.
3. The original parcel, including approximately 42 acres with approximately 2,500 feet of water frontage on the Cocheco River, was subdivided into an open-space subdivision plus a 13 acre conservation parcel with 1,400 feet of water frontage now held by New Hampshire Fish and Game. The remainder of the subdivision (approximately 29 acres with 1,055 feet of water frontage) is dedicated as open-space waterfront parcels, including the proposed tidal docking structure, shared by residents of the inland portion of the subdivision.
4. Pursuant to New Hampshire Administrative Rule Env-Wt 204.05, in correspondence dated February 17, 2018, the applicant requested a waiver to New Hampshire Administrative Rule Env-Wt 402.21, Modification of Existing Structures. The existing tidal docking structure on the subject frontage (depicted as "Pier #2" on the approved plan set) was permitted by the NHDES Wetlands permit #2003-02241.
5. In accordance with New Hampshire Administrative Rule Env-Wt 402.14, Exceptions to Frontage Criteria, the proposed structure will accommodate eight boat slips on 502.5 feet of water frontage, which would otherwise typically qualify for only seven boat slips.
6. A conventional subdivision on this property could have yielded eight waterfront lots, each presumably eligible for individual tidal docking structures and each with multiple slips. Alternatively, the primary lot was subdivided in such a way as to conserve the natural waterfront, reduce the potential number of structures and slips on this reach of the Cocheco River, and reduce the overall environmental impact.
7. In accordance with New Hampshire Administrative Rule Env-Wt 204.04, a waiver will be granted if the project will not have an adverse impact to the environment or natural resources of the state, public health, or public safety, and the strict compliance with the rule will provide no benefit to the public and will cause an operation or economic hardship to the applicant.
8. Consistent with New Hampshire Administrative Rule Env-Wt 204.04, the Department finds that the alternative configuration proposed will minimize adverse environmental impact to the surface water and shoreline and, therefore, waives the standard configuration requirements set forth by New Hampshire Administrative Rules Env-Wt 402.13 and 402.21.

9. The dock is the minimum length necessary to provide full tide access at this location and to a water depth which will prevent the float and vessel from sitting on the mud at low tide.
10. The decking of the dock will have a minimum of have 3/4-inch spacing between the decking planks. Further, the applicant will be utilizing a barge and crane to complete construction of the dock from the water to minimize impacts to the wetland resource.
11. The applicant has demonstrated by plan and example that each factor listed in New Hampshire Administrative Rule Env-Wt 302.04(a) and (c), Requirements for Application Evaluation, has been considered in the design of the project.
12. NH Natural Heritage Bureau (NHB) has record of a sensitive species and an exemplary natural community within the vicinity of the project (NHB18-0468).
13. In correspondence dated February 13, 2018, NHB stated that the project is not expected to adversely impact the sensitive species or the exemplary natural community.
14. In correspondence dated February 08, 2018, the US Fish and Wildlife Service (iPaC Consultation Code: 05E1NE00-2018-SLI-0941) identified the Northern Long Eared Bat and Small Whorled Pogonia, both federally threatened, to be within the vicinity of the project.
15. On June 19 2018, the results of the NHDES staff field inspection found that the site is accurately represented in the application.
16. In accordance with RSA 482-A:8, NHDES finds that the requirements for a public hearing do not apply as the permitted project is not of substantial public interest, and will not have a significant impact on or adversely affect the values of the estuarine resource, as identified under RSA 482-A:1.
17. In correspondence dated June 21, 2018, the Pease Development Authority, Division of Ports and Harbors, determined that the project would have no negative effect on navigation in the channel.
18. In correspondence dated March 23, 2018, the Dover Conservation Commission stated no opposition to the project as proposed.
19. In correspondence dated February 22, 2018, signed authorization was provided by the applicant to allow their agent to act on their behalf throughout the permitting process.
20. No comments of concern were received by the NHDES from local governing organizations.
21. In correspondence dated November 26, 2018, an amendment request was received by NHDES to change the size, location and configuration of the originally approved tidal docking structure, in order to meet the requirements outlined by the US Army Corps of Engineers (subsequent to NHDES' original approval).
22. The float, as amended, will have 4-6 inches of vertical clearance at low tide between the main float and the surface of the substrate. The substrate in this location consists of 3-4 inches of silt above ledge.
23. In correspondence dated December 13, 2018, the applicant's agent stated that it is not possible to install piles for float stops in this location, due to shallow depth to ledge, precluding minimum vertical clearance criteria of 18 inches per the National Marine Fisheries Service.
24. In accordance with RSA 482-A:3 XIV (e), the proposal does not represent a significant amendment and is not expected to have an adverse impact on the environment, it is therefore approved.

Application file documents are being forwarded to the Governor and the Executive Council in connection with their consideration of this matter pursuant to RSA 482-A:3,II.(a) as it is a major project in public waters of the state.

We respectfully submit this request for your consideration.



Robert R. Scott  
Commissioner



# WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau  
Land Resources Management



Check the status of your application: [www.des.nh.gov/onestop](http://www.des.nh.gov/onestop)

RSA 485-A:17 FEB 27 2018  
 COMPLETE FEB 27 2018  
 2018-00515  
 Check No: 15931  
 Amount: \$9,687.00  
 Initial: Pink

**1. REVIEW TIME:** Indicate your Review Time below. To determine review time, refer to Guidance Document A for instructions.

Standard Review (Minimum, Minor or Major Impact)  Expedited Review (Minimum Impact only)

**2. MITIGATION REQUIREMENT:**

If mitigation is required a Mitigation Pre-Application meeting must occur prior to submitting this Wetlands Permit Application. To determine if Mitigation is Required, please refer to the Determine if Mitigation is Required Frequently Asked Questions.

Mitigation Pre-Application Meeting Date: Month: \_\_\_ Day: \_\_\_ Year: \_\_\_

N/A - Mitigation is not required

**3. PROJECT LOCATION:**

Separate wetland permit applications must be submitted for each municipality that wetland impacts occur within.

ADDRESS: **McKone Lane** TOWN/CITY: \_\_\_\_\_

TAX MAP: **N** BLOCK: \_\_\_\_\_ LOT: **18-OPN5** UNIT: \_\_\_\_\_

USGS TOPO MAP WATERBODY NAME: **Cocheco River**  NA STREAM WATERSHED SIZE:  NA

LOCATION COORDINATES (If known): **X:1,202,939 Y:252,516**  Latitude/Longitude

**4. PROJECT DESCRIPTION:**

Provide a brief description of the project (outlining the scope of work). Attach additional sheets as needed to provide a detailed explanation of your project. DO NOT TYPY. See Attached in the space provided below.

Amend existing tidal dock permit 2003-02241 for the purpose of adding additional boat slips. The parcel was recently subdivided and the dock is part of a home owner's association. This application is to add six 8'x16' seasonal floats (768 sf) and to provide a total of 8 boat slips.

**5. SHORELINE FRONTAGE:**

NA This does not have shoreline frontage. SHORELINE FRONTAGE: **(600'+415')/2=1015'**

Shoreline frontage is calculated by determining the average of the distances of the actual natural navigable shoreline frontage and a straight line drawn between the property lines, both of which are measured at the normal high water line.

**6. RELATED NHDES LAND RESOURCES MANAGEMENT PERMIT APPLICATIONS ASSOCIATED WITH THIS PROJECT:**

Please indicate if any of the following permit applications are required and, if required, the status of the application. To determine if other Land Resources Management Permits are required, refer to the Land Resources Management Webpage.

Permit Type	Permit Required	File Number	Permit Application Status
Alteration of Terrain Permit Per RSA 485-A:17	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Individual Sewerage Disposal per RSA 485-A:2	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Subdivision Approval Per RSA 485-A	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Shoreland Permit Per RSA 483-B	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED

**7. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:**

See the Instructions & Required Attachments document for instructions to complete a & b below.

a. Natural Heritage Bureau File ID: **NHB 18 - 0468**

b.  Designated River the project is in ¼ miles of: \_\_\_\_\_; and date a copy of the application was sent to the Local River Management Advisory Committee: Month: \_\_\_ Day: \_\_\_ Year: \_\_\_

N/A

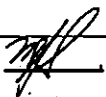
**8. APPLICANT INFORMATION (Desired permit holder)**

LAST NAME, FIRST NAME, M.I.: <b>Ayer, Daniel</b>			
TRUST / COMPANY NAME: <b>Daniel W. Ayer Revocable Trust</b>		MAILING ADDRESS:	
TOWN/CITY: <b>Dover</b>		STATE: <b>NH</b>	ZIP CODE: <b>03820</b>
EMAIL or FAX:		PHONE: <b>(603) 742-3191</b>	
ELECTRONIC COMMUNICATION: By initialing here: _____, I hereby authorize NHDES to communicate all matters relative to this application electronically.			

**9. PROPERTY OWNER INFORMATION (If different than applicant)**

LAST NAME, FIRST NAME, M.I.:			
TRUST / COMPANY NAME:		MAILING ADDRESS:	
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL or FAX:		PHONE:	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically.			

**10. AUTHORIZED AGENT INFORMATION**

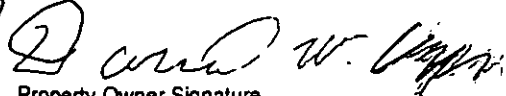
LAST NAME, FIRST NAME, M.I.: <b>Sievert, Michael</b>		COMPANY NAME: <b>MJS Engineering, PC</b>	
MAILING ADDRESS: <b>P.O. Box 359</b>			
TOWN/CITY: <b>Newmarket</b>		STATE: <b>NH</b>	ZIP CODE: <b>03857</b>
EMAIL or FAX: <b>mjs@mjs-engineering.com</b>		PHONE: <b>(603) 659-4979</b>	
ELECTRONIC COMMUNICATION: By initialing here  , I hereby authorize NHDES to communicate all matters relative to this application electronically.			

**11. PROPERTY OWNER SIGNATURE**

See the Instructions & Required Attachments document for clarification of the below statements

By signing the application, I am certifying that:

- I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application.
- I have reviewed and submitted information & attachments outlined in the Instructions and Required Attachment document.
- All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.
- I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.
- I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.
- Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.
- I have submitted a Request for Project Review (RPR) Form ([www.nh.gov/nhdhr/review](http://www.nh.gov/nhdhr/review)) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to identify the presence of historical/ archeological resources while coordinating with the lead federal agency for NHPA 106 compliance.
- I authorize NHDES and the municipal conservation commission to inspect the site of the proposed project.
- I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate.
- I understand that the willful submission of falsified or misrepresented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action.
- I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.
- The mailing addresses I have provided are up to date and appropriate for receipt of NHDES correspondence. NHDES will not forward returned mail.

	<b>Daniel W Ayer</b>	<b>2/20/18</b>
Property Owner Signature	Print name legibly	Date

**MUNICIPAL SIGNATURES**

**12. CONSERVATION COMMISSION SIGNATURE**

- The signature below certifies that the municipal conservation commission has reviewed this application, and
1. Waives its right to intervene per RSA 482-A:11
  2. Believes that the application and submitted plans accurately represent the proposed project, and
  3. Has no objection to permitting the proposed work.

Print name legibly

Date

**DIRECTIONS FOR CONSERVATION COMMISSION**

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
2. Expedited review requires the Conservation Commission signature be obtained prior to the submittal of the original application to the Town/City Clerk for signature.
3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will be reviewed in the standard review time frame.

**13. TOWN/CITY CLERK SIGNATURE**

As required by Chapter 482-A:3 (amended 2014), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

Town/City Clerk Signature

Print name legibly

Town/City

Date

**DIRECTIONS FOR TOWN/CITY CLERK**

Per RSA 482-A:31

1. For applications where Expedited Review is checked on page 1, if the Conservation Commission signature is not present, NHDES will accept the permit application, but it will NOT receive the expedited review time.
2. IMMEDIATELY sign the original application form and four copies in the signature space provided above.
3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
4. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council) and the Planning Board, and
5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

**DIRECTIONS FOR APPLICANT**

1. Submit the single original permit application form bearing the signature of the Town/City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery.

**14. IMPACT AREA:**  
 For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact.  
 Permanent impacts that will remain after the project is complete.  
 Temporary impacts (not intended to remain) (and will be restored to pre-construction conditions) after the project is complete.

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.	TEMPORARY Sq. Ft. / Lin. Ft.
Forested wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Scrub-shrub wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Emergent wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Wet meadow	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Intermittent stream	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Perennial Stream / River	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Lake / Pond	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Intermittent stream	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Perennial stream / River	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Lake / Pond	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Tidal water	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Salt marsh	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Sand dune	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Prime wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Prime wetland buffer	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Undeveloped Tidal Buffer Zone (TBZ)	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Previously-developed upland in TBZ	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - Lake / Pond	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - River	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - Tidal Water	<input type="checkbox"/> ATF	768 <input type="checkbox"/> ATF
Vernal Pool	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
<b>TOTAL</b>	/	768 /

**15. APPLICATION FEE:** See the Instructions & Required Attachments document for further instruction.

Minimum Impact Fee: Flat fee of \$ 200

Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking) \_\_\_\_\_ sq. ft. X \$0.20 = \$ \_\_\_\_\_

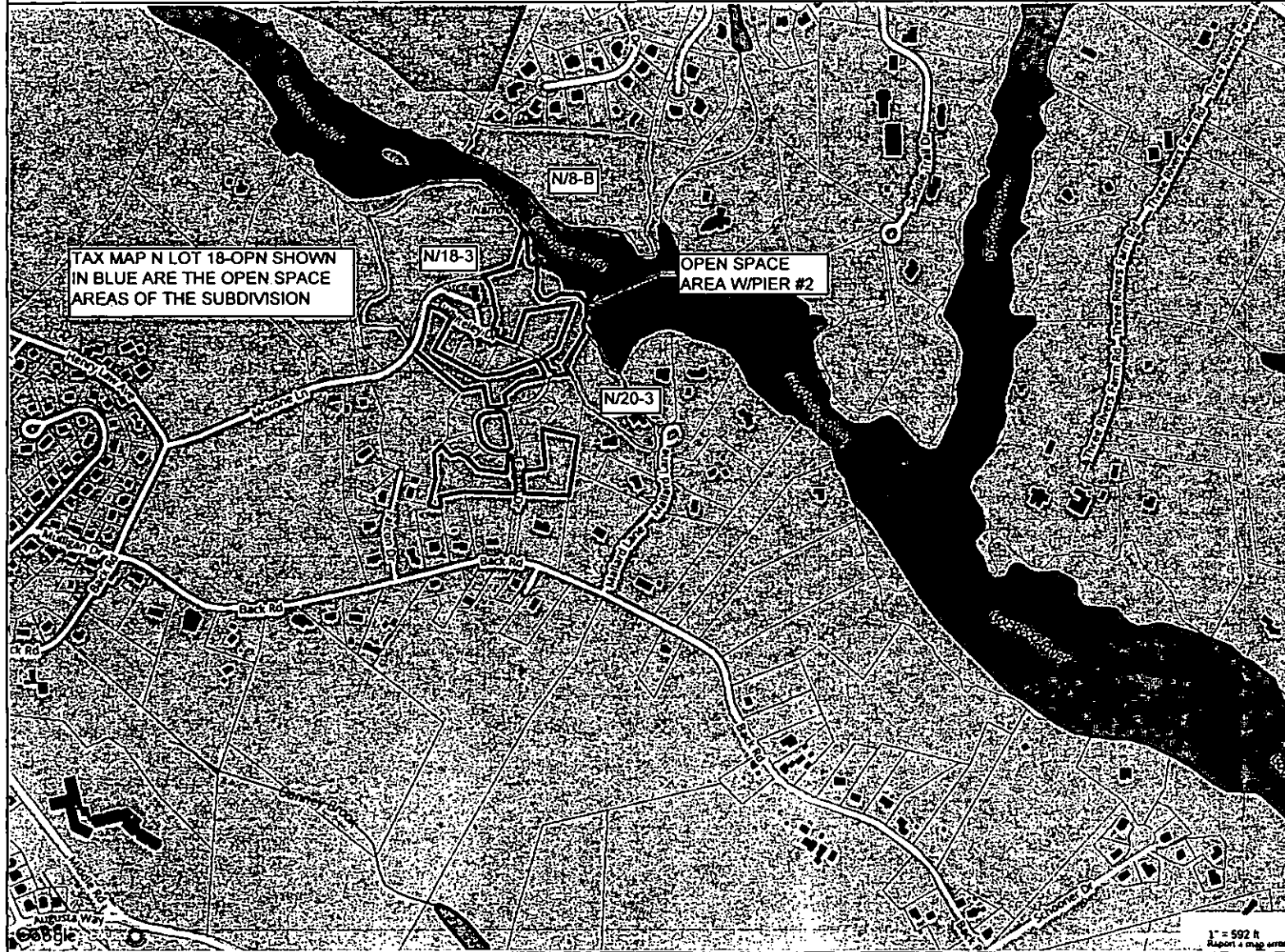
Temporary (seasonal) docking structure: 768 sq. ft. X \$1.00 = \$ 768

Permanent docking structure: \_\_\_\_\_ sq. ft. X \$2.00 = \$ \_\_\_\_\_

Projects proposing shoreline structures (including docks) add \$200 = \$ 200

Total = \$ 968

The Application Fee is the above calculated Total or \$200, whichever is greater = \$ 968



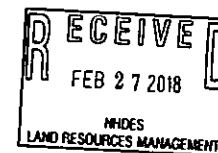
Property Information  
 Property ID N0018-0000PN  
 Location MCKONE LN  
 Owner AYER DANIEL & JACQUELINE REV TRUSTS



MAP FOR REFERENCE ONLY  
 NOT A LEGAL DOCUMENT

City of Dover, NH makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Parcels updated 02/16/2018  
 Properties updated 02/17/2018





# Map by NH GRANIT



## Legend

- State
- County
- City/Town
- Interstates
- Turnpikes
- US Routes
- State Routes
- Local Roads

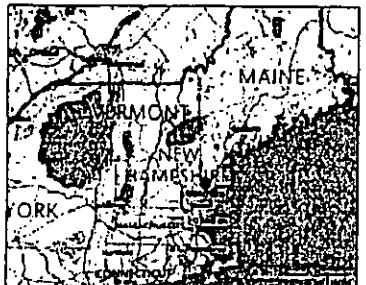
RECEIVED  
FEB 27 2013  
NHDES  
LAND RESOURCES MANAGEMENT

Map Scale  
1: 24,000



© NH GRANIT, [www.granit.unh.edu](http://www.granit.unh.edu)  
Map Generated 2/21/2017

Notes



**Memo**



NH NATURAL HERITAGE BUREAU  
NHB DATACHECK RESULTS LETTER

To: Mike Schlosser, MJS Engineering, PC  
5 Railroad Street  
Newmarket, NH 03857

From: Amy Lamb, NH Natural Heritage Bureau  
Date: 2/12/2018 (valid for one year from this date)  
Re: Review by NH Natural Heritage Bureau

NHB File ID: NHB18-0468 Town: Dover Location: Tax Maps: Tax Map N Lot 18-OPN5  
Description: Amend existing tidal dock permit 2003-02241 for the purpose of adding additional boat slips. The proposed temporary impact is for adding seasonal floats only. There are ~~no proposed permanent dock structures.~~

As requested, I have searched our database for records of rare species and exemplary natural communities, with the following results:

Comments: Recent aerial photography does not show an existing dock within the mapped area. Please clarify the location of the proposed work; there is an existing dock to the northwest of the mapped area (see map below).

**Natural Community**

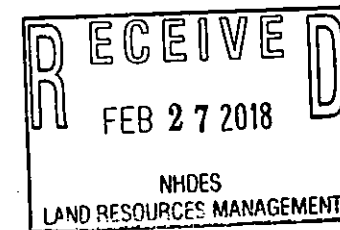
Low brackish riverbank marsh

State Federal Notes

Threats to these communities are primarily alterations to the hydrology of the wetland (such as ditching or tidal restrictions that might affect the sheet flow of tidal waters across the intertidal flat) and increased input of nutrients and pollutants in storm runoff.

Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "\*" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list. An asterisk (\*) indicates that the most recent report for that occurrence was more than 20 years ago.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.



## New Hampshire Natural Heritage Bureau - Community Record

## Low brackish riverbank marsh

Legal Status

Federal: Not listed  
State: Not listed

Conservation Status

Global: Not ranked (need more information)  
State: Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Fair quality, condition and/or landscape context ('C' on a scale of A-D).  
Comments on Rank:

Detailed Description: 2004: Dominant species are *Spartina alterniflora* (smooth cord-grass), *Amaranthus cannabinus* (water hemp), and *Typha angustifolia* (narrow-leaved cattail). Less frequent are *Lemna minor* (lesser duckweed), *Polygonum hydropiper* (water-pepper), *Argentina egedii* (coastal silverweed), *Eleocharis parvula* (small spike-rush), *Ranunculus cymbalaria* (seaside crowfoot), *Lilaeopsis chinensis* (eastern lilaeopsis), and *Samolus parviflorus* (false water pimpernel). 1988: Forms a narrow zone along the river, dominated by *Spartina alterniflora* (smooth cord-grass). A few stands of *Typha angustifolia* (narrow-leaved cattail) exist, mostly less than an acre in size. Rare plant species present are *Samolus parviflorus* (false water pimpernel), *Lilaeopsis chinensis* (eastern lilaeopsis), and *Eleocharis parvula* (small spike-rush). *Spartina alterniflora* (smooth cord-grass) is dominant. A few stands of *Typha angustifolia* (narrow-leaved cat-tail) exist. Many exotic species are present. The bases of steep, rocky slopes support virtually no emergent vegetation.

General Area: 2004: This low marsh lies adjacent to a sparsely or narrowly vegetated **high brackish tidal riverbank marsh**. The high tidal riverbank is often an unvegetated zone grading into the adjacent upland. Some characteristic species are *Solidago sempervirens* (seaside goldenrod) and *Spartina pectinata* (fresh-water cord-grass). Along most of the riverbank community, moderate residential and commercial development occurs on adjacent lands. High levels of development occur along the west end of the riverbank in downtown Dover. 1988: A narrow zone along the river. Bordered by steep forested slopes and heavily impacted areas.

## General Comments:

Management  
Comments:

2004: Several invasive species occur on the higher margins of the riverbank community, especially at the west end nearest downtown Dover. They include *Lythrum salicaria* (purple loosestrife), *Phalaris arundinacea* (reed canary-grass), *Rorippa nasturtium-aquaticum* (true watercress), *Polygonum cuspidatum* (Japanese knotweed), and *Solanum dulcamara* (nightshade). These plants should be monitored. 1988: Guard against future development. Current disturbance includes impacts by rock fill, dams, clearing, and power plant construction.

Location

Survey Site Name: Cocheco River Narrows  
Managed By: Great Bay Megasite

County: Strafford  
Town(s): Dover  
Size: 94.2 acres

Elevation: 20 feet

Precision: Within (but not necessarily restricted to) the area indicated on the map.

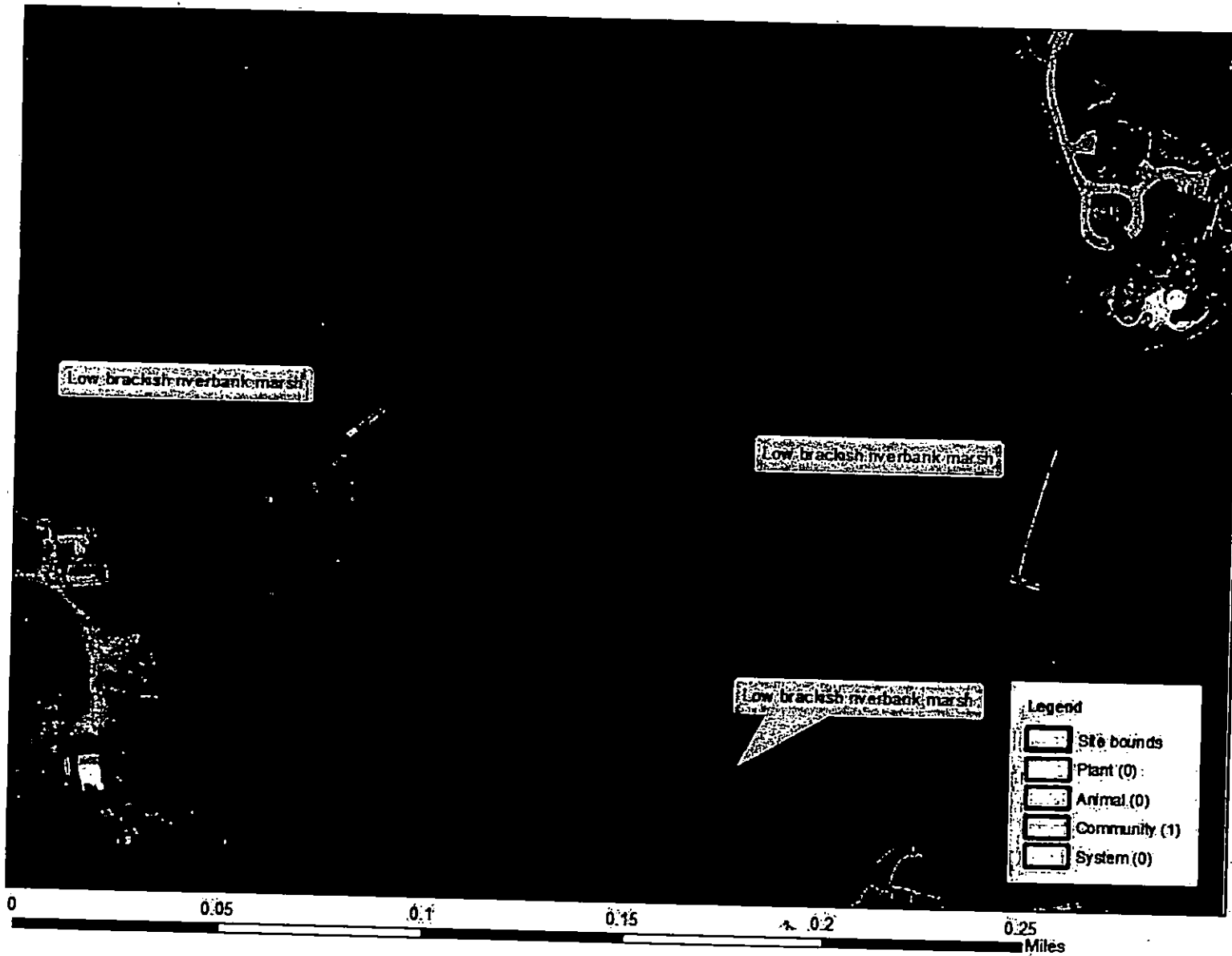
Directions: Cocheco River downstream of downtown Dover. 2004: The tidal riverbank marsh extends from downtown Dover (beginning downstream of Washington Street) to the mouth of the Cocheco. For the tidal marsh nearest downtown Dover, park at Henry Law Park. For the tidal marsh 0.75 miles eastward, from Henry Law Avenue, turn north onto access road to baseball fields. Park in lot for baseball fields and walk NE, across power line corridor, to Cocheco River. 1988: Tidal wetlands and shores along Cocheco River between upper and lower narrows, due east and just downstream of downtown Dover.

**Dates documented**

First reported: 1988-09-13

Last reported: 2004-09-23

NHB18-0468

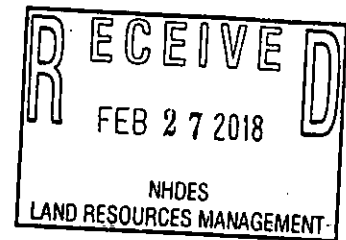


**LIST OF OWNERS OF ABUTTING PROPERTY**

(This includes property directly across the street or streams from the land under consideration. List must also include any and all preparers of plans, studies, etc...)

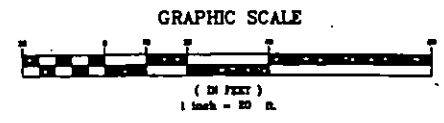
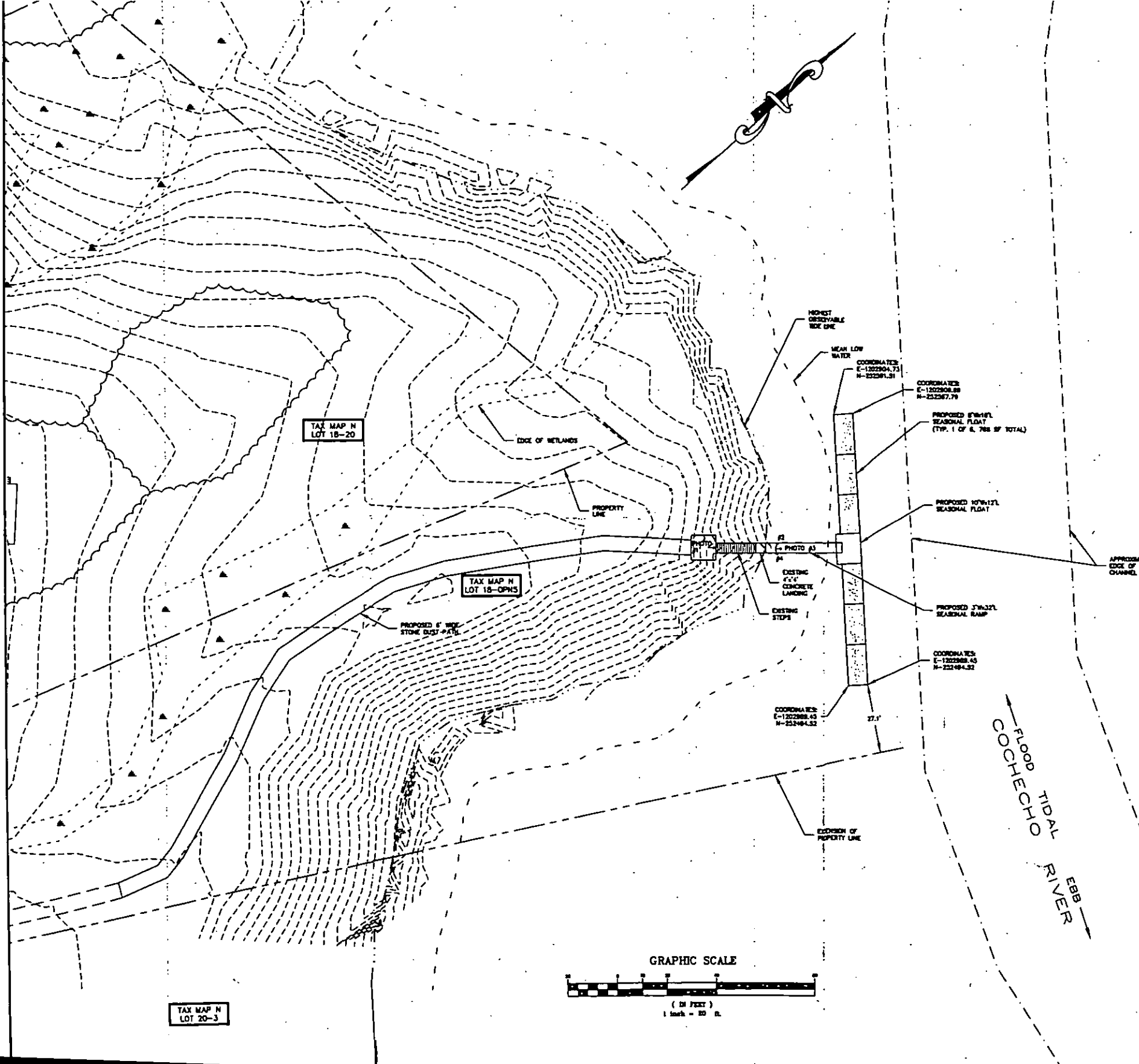
**PLEASE PROVIDE NAME & MAILING ADDRESS**

<p><b><u>ABUTTER:</u></b> MAP N/LOT 18-3 &amp; 8-B</p> <p>STATE OF NEW HAMPSHIRE FISH &amp; GAME DEPARTMENT 11 HAZEN DRIVE CONCORD, NH 03301</p>	
<p><b><u>ABUTTER:</u></b> MAP N/LOT 20-3</p> <p>PAUL &amp; LUANN MAROLD</p> <p>DOVER, NH 03820</p>	





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 2018-11-26 11:28am



- GENERAL NOTES:**
- OWNER/APPLICANT: DANIEL & JACQUELINE AYER REVOCABLE TRUST & DANIEL W. AYER REV. AGREEMENT OF TRUST  
DOWD, NH 03820
  - REFERENCES:
    - THE NARROWS AN OPEN SPACE SUBDIVISION PREPARED FOR DANIEL & JACQUELINE AYER REVOCABLE TRUST AND DANIEL W. AYER REV. AGREEMENT OF TRUST, TAX MAP N LOT NO. 18, MCKONE LANE, FALCON DRIVE & BACK ROAD, CITY OF DOWD, COUNTY OF STRAFFORD, STATE OF NH, PREPARED BY MCKONEY SURVEY ASSOCIATES, INC. DATED 8/22/17.
    - COCHECHO RIVER, DOWD, NH CONDITION SURVEY, 7-FOOT CHANNEL, PREPARED BY U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DIVISION, WALTHAM, MA, DATED JUNE 1985.
  - SURVEY COMPLETED BY MCKONEY SURVEY ASSOCIATES, INC.
  - HIGHEST OBSERVABLE TIDE DELINEATED BY DAVID J. ALLAN MCHWS #16 IN DECEMBER 2016 IN ACCORDANCE WITH 1987 CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT 7-87-1.
  - JURISDICTIONAL WETLANDS/BOILS WERE ORIGINALLY DELINEATED AND FLAGGED IN 2011 AND REEXAMINED BY DAVID J. ALLAN MCHWS #16 IN DECEMBER 2016 AND FOUND TO BE IN COMPLIANCE WITH THE STANDARDS SET FORTH IN THE CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL AND THE REGIONAL SUPPLEMENT TO THE MANUAL, FIELD "NORTH-CENTRAL AND NORTHEAST REGIONS, U.S. ARMY CORPS OF ENGINEERS, OCTOBER 2008". HYDRIC SOILS WERE DETERMINED USING "FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, A GUIDE FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 7.0, 2014" AND "FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 5.1" WITH LOCATIONS CONFIRMED BY THIS OFFICE.
  - VERTICAL DATUM IS BASED ON NAVD83.
  - TAX MAP N, LOT 18-OPNS IS DESIGNATED AS COMMON LAND FOR PIER #2 HOMEOWNERS ASSOCIATION.
  - FLOATS WILL BE HELD IN PLACE BY CONCRETE BLOCK AND CHAIN ANCHORS AT EACH END OF THE DOCK, IN ADDITION TO TWO ANCHORS AT THE FLOAT.
  - NO OTHER ADDITIONAL WORK IS REQUIRED FOR THIS AMENDMENT. THE PERMANENT STAIRS, LANDING, AND FLOAT WERE PREVIOUSLY PERMITTED.

NO.	DATE	REVISIONS
10/1		
10/2		
10/3		
10/4		
10/5		
10/6		
10/7		
10/8		
10/9		
10/10		

DATE:	1/21/18
SCALE:	1" = 20'
DESIGNED BY:	MS
DRAWN BY:	MS
APPROVED BY:	MS
DWG FILE:	16-055 C12-Docks.dwg

TIDAL DOCK AMENDMENT PLAN  
 prepared for  
 DANIEL & JACQUELINE AYER REVOCABLE TRUST &  
 DANIEL W. AYER REV. AGREEMENT OF TRUST  
 "THE NARROWS" OPEN SPACE SUBDIVISION  
 TAX MAP N LOT 18, 18-1, 18-2 & 18-3 & 18-4, MCKONE LANE, FALCON DRIVE & BACK ROAD DOWD, NH

**MJS ENGINEERING, P.C.**  
 CIVIL • STRUCTURAL • ENVIRONMENTAL  
 5 Parkside Dr., P.O. Box 248  
 Dover, NH 03820  
 Phone: (603) 864-8170, FAX: (603) 864-8427  
 E-mail: mjs@engr.com

JOB: 16-055  
 SHEET 1 OF 2  
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Received By NHDES  
 11.26.2018