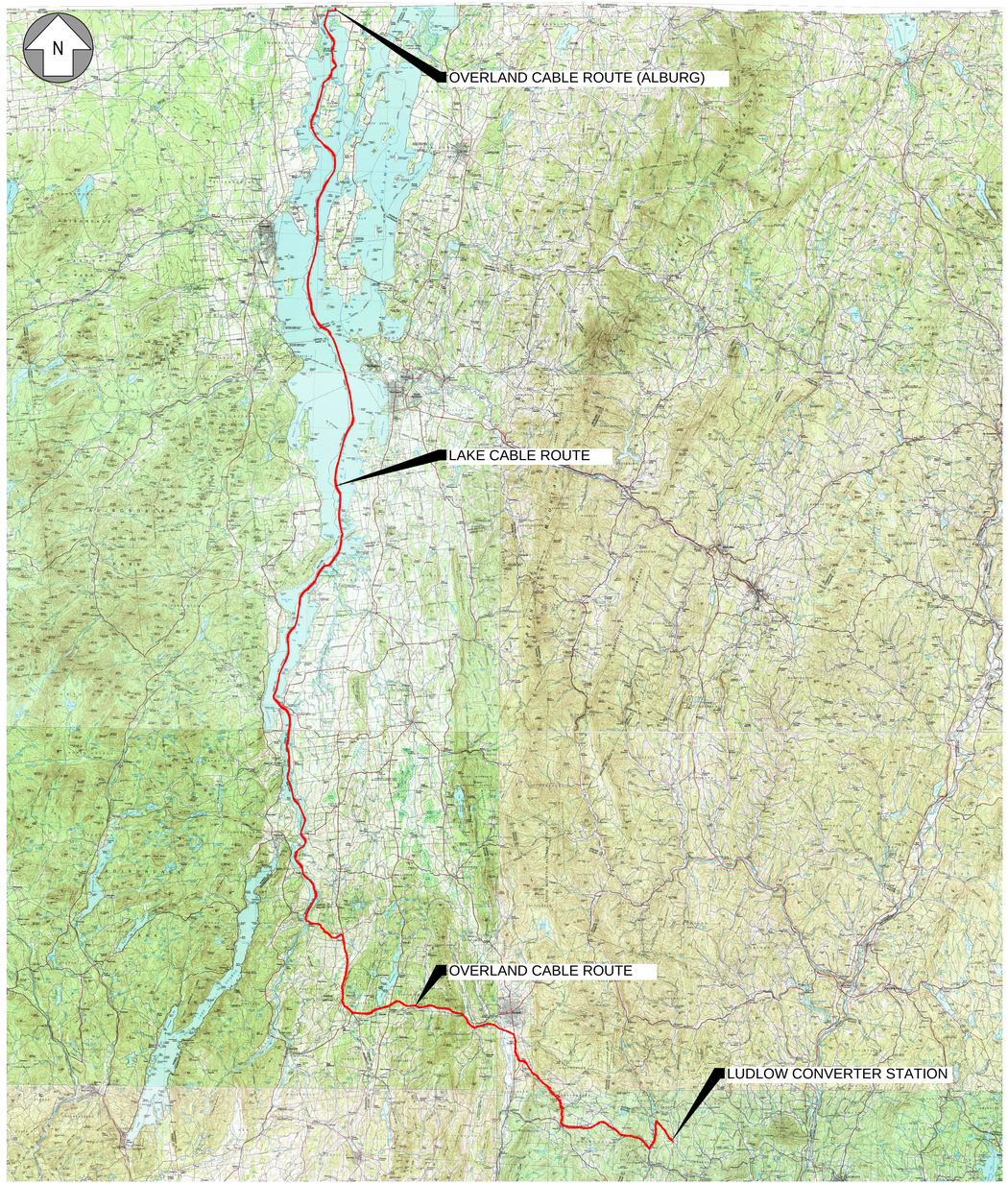
Docket No. _____
Exh. TDI-JMB-4

New England Clean Power Link

TDI New England

LAKE CHAMPLAIN SEGMENT



35,000 0 35,000 70,000 FT

SCALE: 1" = 35,000'

LOCATION MAP
SCALE: 1" = 35,000'

VERMONT COUNTIES

GRAND ISLE
CHITTENDEN
ADDISON
RUTLAND

APPLICANT / DEVELOPER:

TDI New England
A Blackstone Portfolio Company

TDI NEW ENGLAND
PO BOX 155
CHARLOTTE, VT 05445
info@chvtllc.com
(802) 885-3890

PREPARED BY:

TRC

TRC SOLUTIONS
249 WESTERN AVENUE
AUGUSTA, ME 04330
awironen@trcsolutions.com
(207) 430-0710

20% DESIGN
NOT FOR CONSTRUCTION

Designed	TRC
Drawn	TRC
Checked	-
Approved	-
Scale	AS NOTED

No.	Revision	Date	By	Ck	PE	PE #
A	20% ANR Submission	12/5/14	TRC	AMW		

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New England Clean Power Link
TDI New England

Cover Sheet

L-G-1

Prepared by: TRC 09/19/14

A. GENERAL NOTES

1. ALL COORDINATES AND ELEVATIONS ARE STATED IN FEET UNLESS OTHERWISE NOTED.
2. ALL SURVEY DATA AND GEO-REFERENCED DATA REFERENCES THE VERMONT STATE PLANE COORDINATE SYSTEM.
   - HORIZONTAL DATUM: VERMONT STATE PLANE, NAD83, US SURVEY FEET
   - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD88), FEET
3. INFORMATION CONTAINED WITHIN THIS PACKAGE OF DRAWINGS AND DESIGN DATA IS DEVELOPED TO A 20% LEVEL OF DESIGN. THESE DOCUMENTS HAVE BEEN PREPARED FOR THE PURPOSE OF CONVEYING CONCEPT LEVEL PROJECT ROUTING, DESIGN AND CONSTRUCTION DETAILS NECESSARY FOR PUBLIC AND REGULATORY REVIEW AND PERMITTING. TO THE GREATEST EXTENT POSSIBLE, THESE PROJECT CONCEPTS HAVE BEEN DEVELOPED TO DEPICT LIKELY, FEASIBLE CONSTRUCTION TECHNIQUES, PROJECT ROUTES AND SUITABLE MATERIALS.
4. THE ROUTE AND DETAILS PRESENTED ARE SUBJECT TO REVISION BASED ON PUBLIC AND REGULATORY COMMENT; AS SUCH, CONCEPTS PRESENTED HEREIN MAY BE MODIFIED TO ADDRESS SPECIFIC CONCERNS EXPRESSED BY VARIOUS PARTIES.
5. DETAILED ENGINEERING AND CONSTRUCTION WILL BE PERFORMED BY A DESIGN-BUILD CONTRACTOR AFTER RECEIPT OF APPLICABLE PERMITS. THE DETAILED DESIGN WILL BE DEVELOPED IN ACCORDANCE WITH THE GUIDANCE AND DIRECTION CONTAINED WITHIN THE ISSUED PERMITS, DIRECTIVES AND OWNER'S CONTRACT.
6. NO CONSTRUCTION MAY TAKE PLACE WITHOUT OWNER'S APPROVAL OR PROPER COORDINATION WITH REGULATORY AGENTS AND ENTITIES HAVING A MATERIAL INTEREST IN THE WORK.
7. PERMIT AND REGULATORY REQUIREMENTS THAT ARE IN CONFLICT WITH REQUIREMENTS OF THIS DOCUMENT SHALL TAKE PRECEDENCE OVER DETAILS AND NOTATION PRESENTED HEREIN.
8. PROJECT DRAWINGS, SPECIFICATIONS, CALCULATIONS AND RELATED DESIGN DOCUMENTS SHALL BE DEVELOPED UNDER THE DIRECT OVERSIGHT OF PROFESSIONAL ENGINEERS LICENSED TO PRACTICE IN THE STATE OF VERMONT. FINISHED DESIGN PRODUCTS AND DOCUMENTS SHALL BEAR THE STAMP AND SIGNATURE OF THE ENGINEER IN RESPONSIBLE CHARGE OF THAT PORTION OF THE WORK.
9. THE WORK SEQUENCE PRESENTED HEREIN IS BASED ON THE ROUTE ALIGNMENT DEPICTED ON THE PLAN AND PROFILE SHEETS. OTHER ALTERNATIVES THAT PROVIDE AN EQUAL OR LESSER ENVIRONMENTAL IMPACT ARE ALSO BEING CONSIDERED. THE TYPICAL ROUTE SEGMENT WORK SEQUENCE WILL INCLUDE:
   A. INSTALL ENVIRONMENTAL CONTROLS AS SPECIFIED OR DIRECTED INCLUDING COFFERDAMS, RECEIVER PIPES AND OTHER CONTROLS, PERFORM ROUTE CLEARING AND GEOTECHNICAL INVESTIGATION AS REQUIRED TO SUPPORT WORK
   B. PERFORM HORIZONTAL DIRECTIONAL DRILLS (HDD) FOR CABLE TRANSITION INTO AND OUT OF THE LAKE
   C. CABLE TRANSPORT AND FLOATING TO HDD BORE HOLES AT NORTH END (LUDLOW) OF THE LAKE. PULL CABLE INTO HDD BORE HOLES FOR TRANSITION FROM OVERLAND TO LAKE CABLE. PROVIDE MANUAL CABLE BURIAL IN SHALLOW NORTHERN LAKE SEGMENT. (ALTERNATIVE LAKE ACCESS INSTALLATION METHODS/ROUTES THAT PROVIDE EQUAL OR LESSER ENVIRONMENTAL IMPACTS ARE ALSO BEING CONSIDERED. THESE ALTERNATIVES WILL BE COORDINATED WITH PROJECT STAKEHOLDERS.
   D. CABLE LAYING IN DEEPER LAKE REGIONS USING SHEAR PLOW, JET PLOW OR SURFACE LAID
   E. PULL CABLE INTO HDD BORE HOLES AT SOUTHERN (BENSON) END OF THE LAKE FOR TRANSITION TO OVERLAND ROUTE
10. THE TDI-NE PROPERTY AT THE LISTED LOCATIONS MAY BE USED FOR CONSTRUCTION STAGING AND STORAGE AREAS. LIMITS ON CLEARING, WETLAND DISTURBANCE, AND OTHER PERMIT RESTRICTIONS APPLY TO EACH PROPERTY.

ALBURG, VT	55 BAY RD.	3 ACRES
BENSON, VT	113 STONY POINT RD. 148 STONY POINT RD.	2 ACRES TOTAL

11. THE PLANNED CABLE INSTALLATION ROUTE CROSSES, OR PASSES WITHIN CLOSE PROXIMITY OF, KNOWN UTILITIES, FACILITIES, AND ARCHEOLOGICAL ARTIFACTS ON THE LAKE BOTTOM. KNOWN UTILITIES INCLUDE ELECTRIC TRANSMISSION LINES, CABLE FERRY HOIST LINES, TELEPHONE CABLES, WATERLINES AND OTHERS. BASED ON PUBLICLY AVAILABLE INFORMATION, THE KNOWN UTILITIES AND ARTIFACTS ARE SHOWN ON THE PROJECT MAPS. ADDITIONAL ARTIFACTS AND OTHER LAKE BOTTOM FEATURES WILL BE ADDED TO THE ROUTE MAPS AS INFORMATION BECOMES AVAILABLE.

B. SAFETY NOTES

1. SMOKING IS PROHIBITED ON THE PROJECT SITE EXCEPT WITHIN DESIGNATED SMOKING AREAS.
2. PROVIDE SANITARY FACILITIES AT EACH WORK SITE AND VESSEL AS REQUIRED BY STATE OR UNION REQUIREMENTS.
3. OPEN FLAMES, BURNING AND GRINDING IS PROHIBITED UNLESS PERMITTED BY LOCAL FIRE OFFICIALS.
4. EACH CONSTRUCTION VEHICLE SHALL HAVE AT LEAST ONE A, B, C FIRE EXTINGUISHER AND A SUITABLE CLASS II FIRST AID KIT.
5. EACH WORK SITE SHALL HAVE AT LEAST ONE ANSI COMPLIANT CLASS III UNITIZED FIRST AID KIT.
6. NO EXCAVATION ON LAND SHALL TAKE PLACE PRIOR TO CONTACTING THE APPROPRIATE UTILITY LOCATING SERVICE FOR A DIG-SAFE CLEARANCE.
7. EXISTING UTILITIES ON THE LAKE BOTTOM SHALL NOT BE APPROACHED BY MECHANICAL INSTALLATION (SHEAR PLOW, JET PLOW) CABLE LAYING EQUIPMENT OR ROUTE CLEARING EQUIPMENT. CABLE INSTALLATION AT EXISTING LAKE BOTTOM UTILITIES AND FACILITIES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH CROSSING AGREEMENTS DEVELOPED IN COORDINATION WITH THE UTILITY/FACILITY OWNER. UNDERGROUND UTILITIES ON LAND SHALL BE CROSSED IN ACCORDANCE WITH REQUIREMENTS OUTLINED IN THE OVERLAND ROUTE SEGMENT DESIGN DOCUMENTS.
8. CONSTRUCTION VEHICLES SHALL OBSERVE AND COMPLY WITH ESTABLISHED SAFETY REQUIREMENTS INCLUDING POSTED SPEED LIMITS.

C. ENVIRONMENTAL NOTES

1. ENVIRONMENTAL CONTROLS SHALL BE ESTABLISHED PRIOR TO MOBILIZATION TO EACH WORK SITE.
2. TRANSMISSION CABLES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE PROJECT PERMITS.
3. CONTRACTOR SHALL INSTALL SUPPLEMENTAL EROSION CONTROLS AS DIRECTED AND MAINTAIN SUCH CONTROLS THROUGH THE DURATION OF THE WORK.

D. GENERAL WORK REQUIREMENTS

1. INDICATED UNDERGROUND/UNDERWATER UTILITIES, FACILITIES AND ARTIFACTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED ON RECORD DOCUMENTS PROVIDED BY THE UTILITY OWNER OR INFORMATION AVAILABLE IN THE PUBLIC DOMAIN. NOT ALL UTILITIES, FACILITIES OR ARTIFACTS IN THE VICINITY OF THE WORK HAVE BEEN IDENTIFIED. CARE SHALL BE TAKEN TO POSITIVELY IDENTIFY AND LOCATE KNOWN UTILITIES, FACILITIES AND ARTIFACTS PRIOR TO ROUTE CLEARING OR CABLE LAYING.
2. PRIOR TO THE START OF THE WORK, THE CONTRACTOR SHALL ESTABLISH SAFETY AND ENVIRONMENTAL CONTROLS AS REQUIRED BY FEDERAL, STATE, AND LOCAL REGULATIONS AND PERMITS. CONTROLS SHALL BE MAINTAINED THROUGHOUT THE PROJECT AND REMOVED AT THE COMPLETION OF THE WORK .
3. NO WORK SHALL TAKE PLACE ON, EQUIPMENT OR PERSONNEL ACCESS, PROPERTY OUTSIDE THE ESTABLISHED WORK ZONES OR RIGHTS-OF-WAY.

ABBREVIATIONS

J&B	JACK & BORE
HDD	HORIZONTAL DIRECTIONAL DRILL
PCE	PERMANENT CABLE EASEMENT
R.O.W.	RIGHT-OF-WAY

20% DESIGN
NOT FOR CONSTRUCTION

Designed	TRC
Drawn	TRC
Checked	-
Approved	-
Scale	N/A

No.	Revision	Date	By	Ck	PE	PE #
A	20% ANR Submission	12/5/14	TRC	AMW		

TDI New England
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New England Clean Power Link

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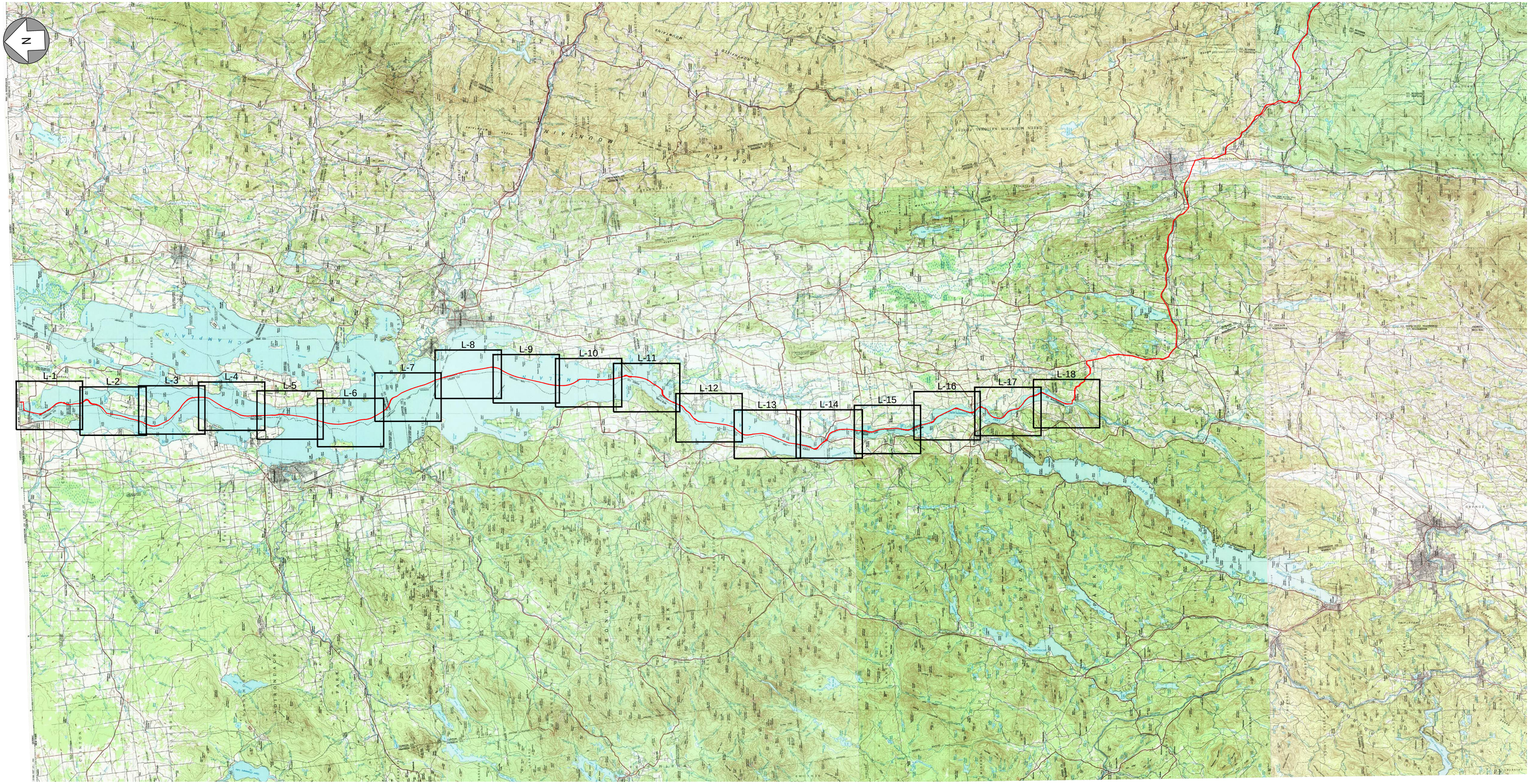
Lake Segment General Notes

L-G-2

Prepared by: TRC 09/19/14



20000 0 20000 20000 FT

SCALE: 1" = 20000'

NOTE: REFER TO THE PROJECT OVERLAND SEGMENT MAPS FOR INFORMATION ON THE OVERLAND ROUTE AND INSTALLATION DETAILS.

SHEET INDEX - MAP

SCALE: 1" = 20,000'

SHEET INDEX - DRAWING LIST

SHEET INDEX - CONTINUED

20% DESIGN
NOT FOR CONSTRUCTION

Designed	TRC
Drawn	TRC
Checked	-
Approved	-
Scale	AS NOTED

No.	Revision	Date	By	Ck	PE	PE #
A	20% ANR Submittal	12/05/14	TRC	AMW		

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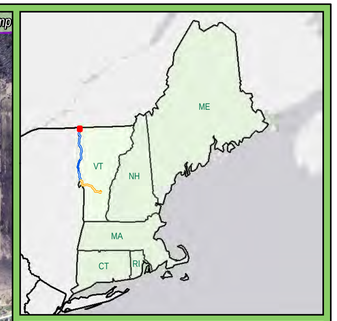
Plan Profile Sheet Index - Lake Route

L-G-1

Prepared by: TRC 09/19/14



Legend

- Mile Post - Whole
- Utility Crossing (Approximate)
- Proposed Overland Cable
- Proposed Lake HDD

Proposed Lake Cable Construction Method

- Diver Lay Installation
- Install on Bottom
- Jet Plow Installation
- Shear Plow Installation
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- NY State Boundary (NY GIS Program Office)
- Wildlife Management Areas
- Public & Conserved Lands
- Natural Areas (ANR)

NHI Element Occurrence (VTFW)

- RTE's
- Natural Community

Sources: ESRI, TRC, HDR, VHB, TDI New England, VCGI

0 1,000 2,000
Feet

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A Blackstone Portfolio Company

New England Clean Power Link

Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-1

Created: 12/2/2014

TRC
14 Gabriel Drive
Augusta, ME 04330

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Sources: ESRI, TRC, HDR, VHB, TDI New England, VCGI

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Feet

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Lake Segment

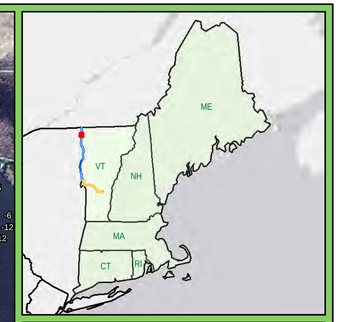
Grand Isle, Chittenden, Addison, and Rutland Counties

L-2

Created: 12/2/2014

TRC

14 Gabriel Drive
Augusta, ME 04330



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Sources: ESRI, TRC, HDR, VHB, TDI New England, VCGI

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Feet

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Lake Segment

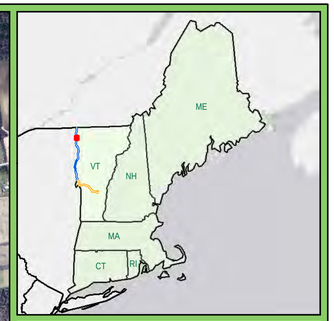
Grand Isle, Chittenden, Addison, and Rutland Counties

L-3

Created: 12/2/2014

TRC
14 Gabriel Drive
Augusta, ME 04330

9296-Vertebrate Animal
7603-Vertebrate Animal Special Concern
3437-Vertebrate Animal Special Concern
9223-Vascular Plant
4257-Lakeside Floodplain Forest S3
8196-Vascular Plant
2045-Vascular Plant
1847-Vascular Plant
3831-Vertebrate Animal Special Concern
BOW ARROW POINT STATE PARK
BOW ARROW POINT STATE PARK
BOW ARROW POINT STATE PARK
BOW ARROW POINT STATE PARK
5955-Lakeside Floodplain Forest S3
9225-Vascular Plant
4140-Vascular Plant
7478-Vascular Plant
NORTH HERO
5955-Lakeside Floodplain Forest S3
GRAND ISLE
NORTH HERO TOWN FOREST
140-Lakeside Floodplain Forest S3
10232-Vascular Plant
17
18
19
20
21
22
10358-Vertebrate Animal Special Concern
VANTINES ACCESS AREA
8691-Vascular Plant State-Threatened
213-Vertebrate Animal Special Concern
SOUTH SISTER ISLAND
1525-Vertebrate Animal



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Sources: ESRI, TRC, HDR, VHB, TDI New England, VCGI

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Feet

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New England Clean Power Link

Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-4

Created: 12/2/2014

TRC
14 Gabriel Drive
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KEELER BAY ACCESS AREA

6801-Red or Silver Maple-Green Ash Swamp
S3

6822-Red or Silver Maple-Green Ash Swamp
S3

8258-Vascular Plant
State-Threatened

10358-Vertebrate Animal
Special Concern

GRAND ISLE

8468-Invertebrate Animal

9199-Vertebrate Animal

9550-Vascular Plant

VANTINES ACCESS AREA

SOUTH HERO

6253-Vertebrate Animal
State-Endangered

5299-Red or Silver Maple-Green Ash Swamp
S6

7750-Invertebrate Animal
Special Concern

8185-Vascular Plant

8211-Vascular Plant

8191-Vascular Plant

23

24

25

26

27

Legend

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N

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Feet

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New England Clean Power Link

Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-5

Created: 12/2/2014

TRC
14 Gabriel Drive
Augusta, ME 04330

5187-Lake Sand Beach
S2
2440-Vascular Plant
State-Threatened
1332-Vascular Plant
State-Threatened
9183-Vascular Plant
6258-Vertebrate Animal
State-Endangered
7750-Invertebrate Animal
Special Concern
SOUTH HERO
7137-Vascular Plant
5013-Vascular Plant
7309-Vascular Plant
7519-Vascular Plant
3689-Vascular Plant
4859-Vertebrate Animal
3665-Vascular Plant
State-Threatened
5449-Vascular Plant
State-Threatened
2038-Vascular Plant
8063-Vascular Plant
6944-Limestone Bluff Cedar-Pine Forest
S2
44-Vascular Plant
8706-Vascular Plant
6945-Vascular Plant
734-Vascular Plant
5514-Vascular Plant
State-Threatened
8211-Vascular Plant
8708-Vascular Plant
3003-Vascular Plant
State-Threatened
3950-Vascular Plant
5610-Vascular Plant
State-Threatened
5078-Vascular Plant
6944-Limestone Bluff Cedar-Pine Forest
State-Threatened
S2
28
29
30
31
32
33

Legend

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Sources: ESRI, TRC, HDR, VHB, TDI New England, VCGI

N

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Feet

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New England Clean Power Link

Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-6

Created: 12/2/2014

TRC
14 Gabriel Drive
Augusta, ME 04330

PORTER NATURAL AREA
PORTER NATURAL AREA
1063-Deep Bulrush Marsh S4
COLCHESTER
PORTER NATURAL AREA
1250-Vascular Plant 9224-Vascular Plant
1063-Deep Bulrush Marsh S4
4009-Vascular Plant
9914-Vascular Plant
987-Vascular Plant
6050-Vascular Plant
LAW ISLAND STATE PARK
7281-Vascular Plant
1064-Vascular Plant
1-State-Threatened
39
38
37
36
35
34
33

Legend

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Sources: ESRI, TRC, HDR, VHB, TDI New England, VCGI

N

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Feet

TDI New England
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New England Clean Power Link

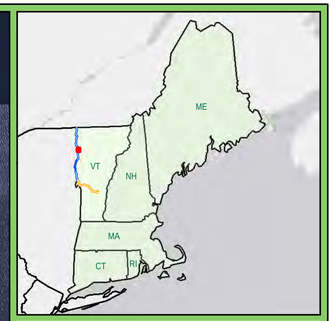
Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-7

Created: 12/2/2014

TRC
14 Gabriel Drive
Augusta, ME 04330



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Sources: ESRI, TRC, HDR, VHB, TDI New England, VCGI

0 1,000 2,000
Feet

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Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-8

Created: 12/2/2014

TRC
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SHELBURNE

44

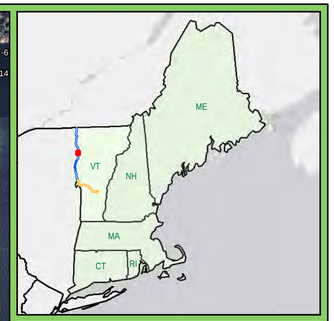
45

46

47

48

49



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Sources: ESRI, TRC, HDR, VHB, TDI New England, VCGI

N

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Feet

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New England Clean Power Link

Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-9

Created: 12/2/2014

TRC

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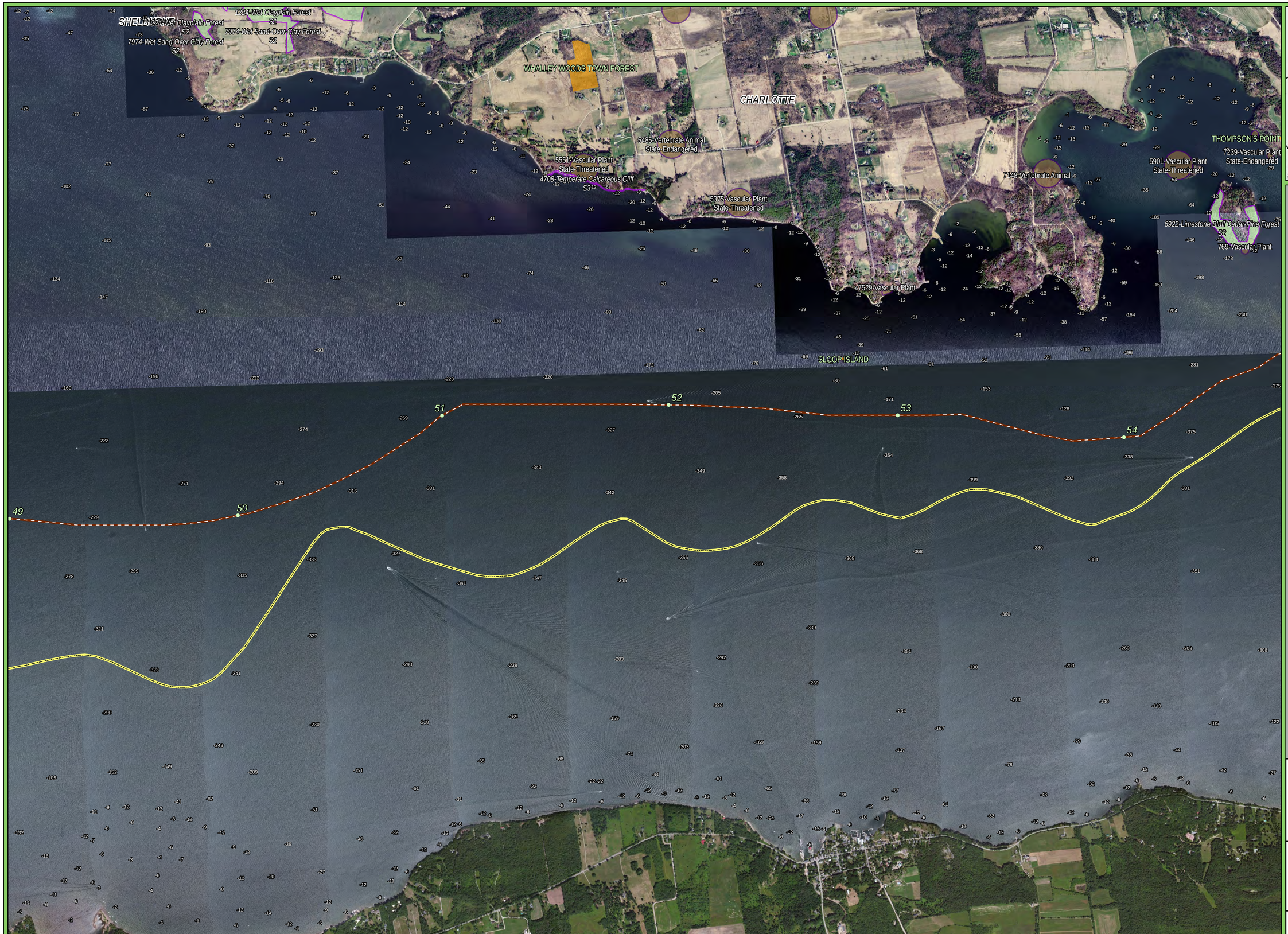
Augusta, ME 04330



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0 1,000 2,000

Feet

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Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-10

Created: 12/2/2014

TRC
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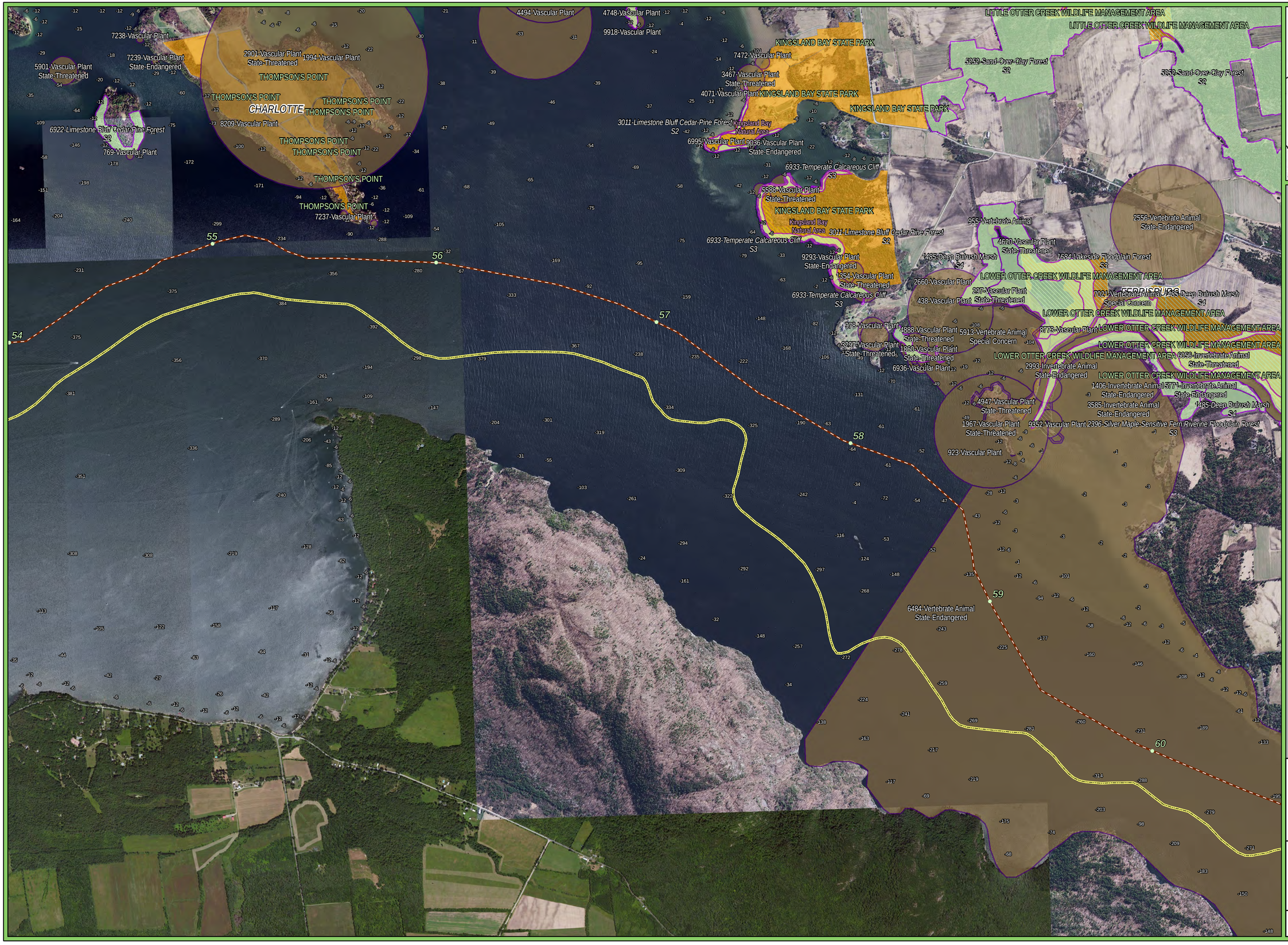
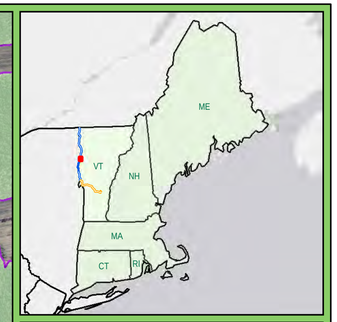
Augusta, ME 04330





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- Natural Areas (ANR)

NHI Element Occurrence (VTFW)

- RTE's
- Natural Community

Sources: ESRI, TRC, HDR, VHB, TDI New England, VCGI

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Feet

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New England Clean Power Link

Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-11

Created: 12/2/2014

TRC

14 Gabriel Drive
Augusta, ME 04330

BUTTON BAY STATE PARK

BUTTON BAY STATE PARK
931-Vertebrate Animal
State-Threatened
5459-Vascular Plant

FERRISBURG

7958-Vascular Plant

4992-Vascular Plant
State-Threatened

BUTTON BAY STATE PARK
1509-Vascular Plant
State-Threatened

9089-Vascular Plant

Button Point
Natural Area

BUTTON BAY STATE PARK
7960-Vascular Plant
1905-Vascular Plant
State-Endangered

6484-Vertebrate Animal
State-Endangered

5734-Limestone Bluff Cedar-Pine Forest
S2
320-Mesic Maple-Ash-Hickory-Oak Forest
S3
4459-Mesic Clayplain Forest
S2

9703-Mesic Clayplain Forest
S2

PANTON

7141-Vertebrate Animal
Special Concern

4526-Vascular Plant
State-Threatened

61
62
63
64
65
66

Legend

- Mile Post - Whole
- Utility Crossing (Approximate)
- Proposed Overland Cable
- Proposed Lake HDD

Proposed Lake Cable Construction Method

- Diver Lay Installation
- Install on Bottom
- Jet Plow Installation
- Shear Plow Installation
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Sources: ESRI, TRC, HDR, VHB, TDI New England, VCGI

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Feet

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New England Clean Power Link

Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-12

Created: 12/2/2014

TRC
14 Gabriel Drive
Augusta, ME 04330

4526-Vascular Plant
State-Threatened

PANTON

7962-Mesic Clayplain Forest
S2

7970-Wet Clayplain Forest
S2

7962-Mesic Clayplain Forest 7970-Wet Clayplain Forest
S2 S2

7753-Vertebrate Animal

6998-Vertebrate Animal
State-Endangered

ADDISON

66

67

68

69

70

71

Legend

- Mile Post - Whole
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Sources: ESRI, TRC, HDR, VHB, TDI New England, VCGI

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Feet

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New England Clean Power Link

Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-13

Created: 12/2/2014

TRC
14 Gabriel Drive
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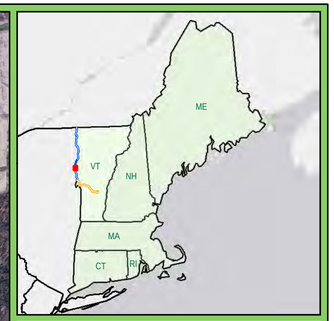

Legend

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Sources: ESRI, TRC, HDR, VHB, TDI New England, VCGI

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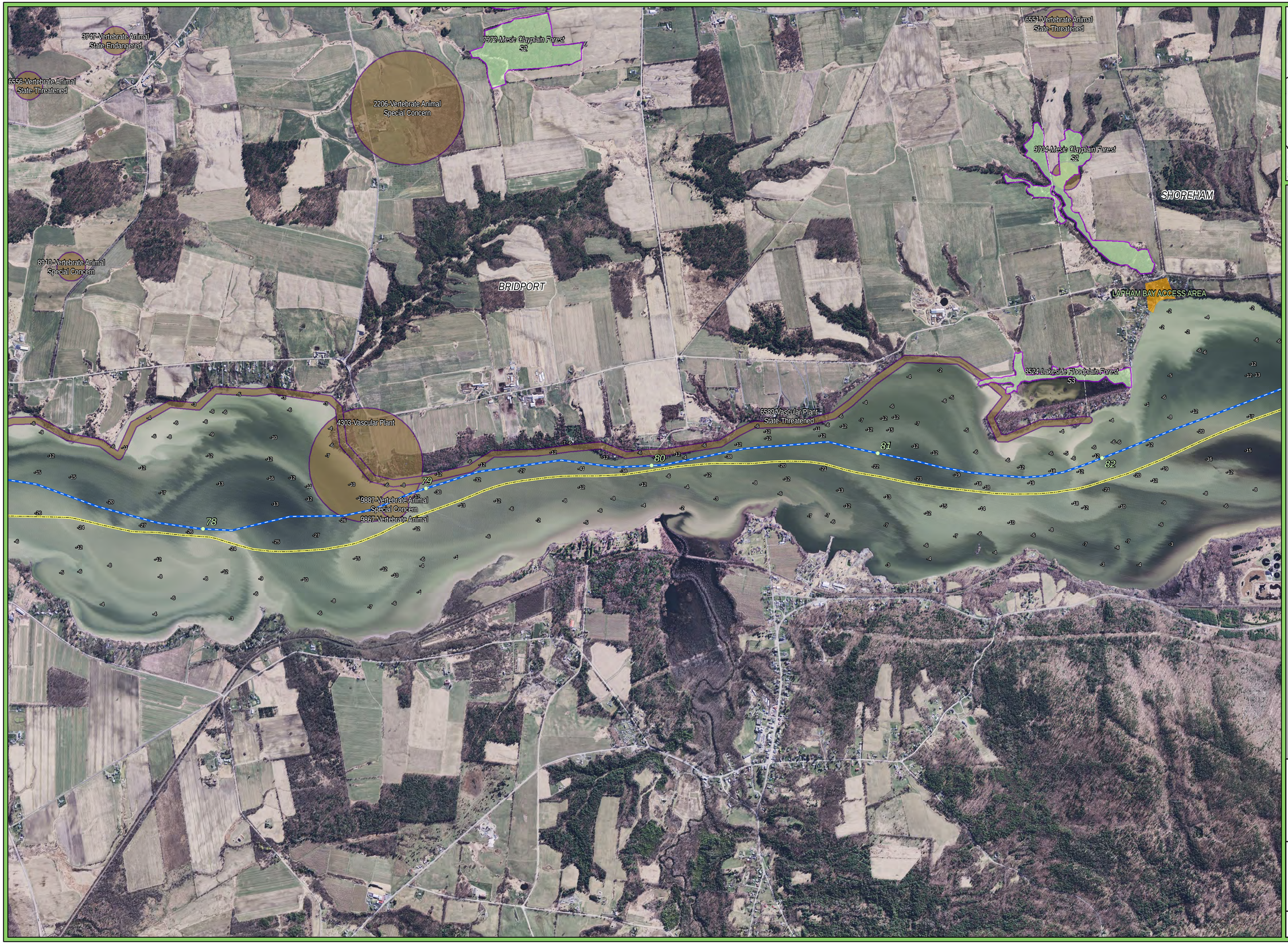
Lake Segment

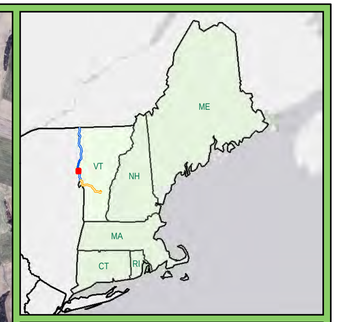
Grand Isle, Chittenden, Addison, and Rutland Counties

L-14

Created: 12/2/2014

TRC 14 Gabriel Drive Augusta, ME 04330





Legend

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Feet

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New England Clean Power Link

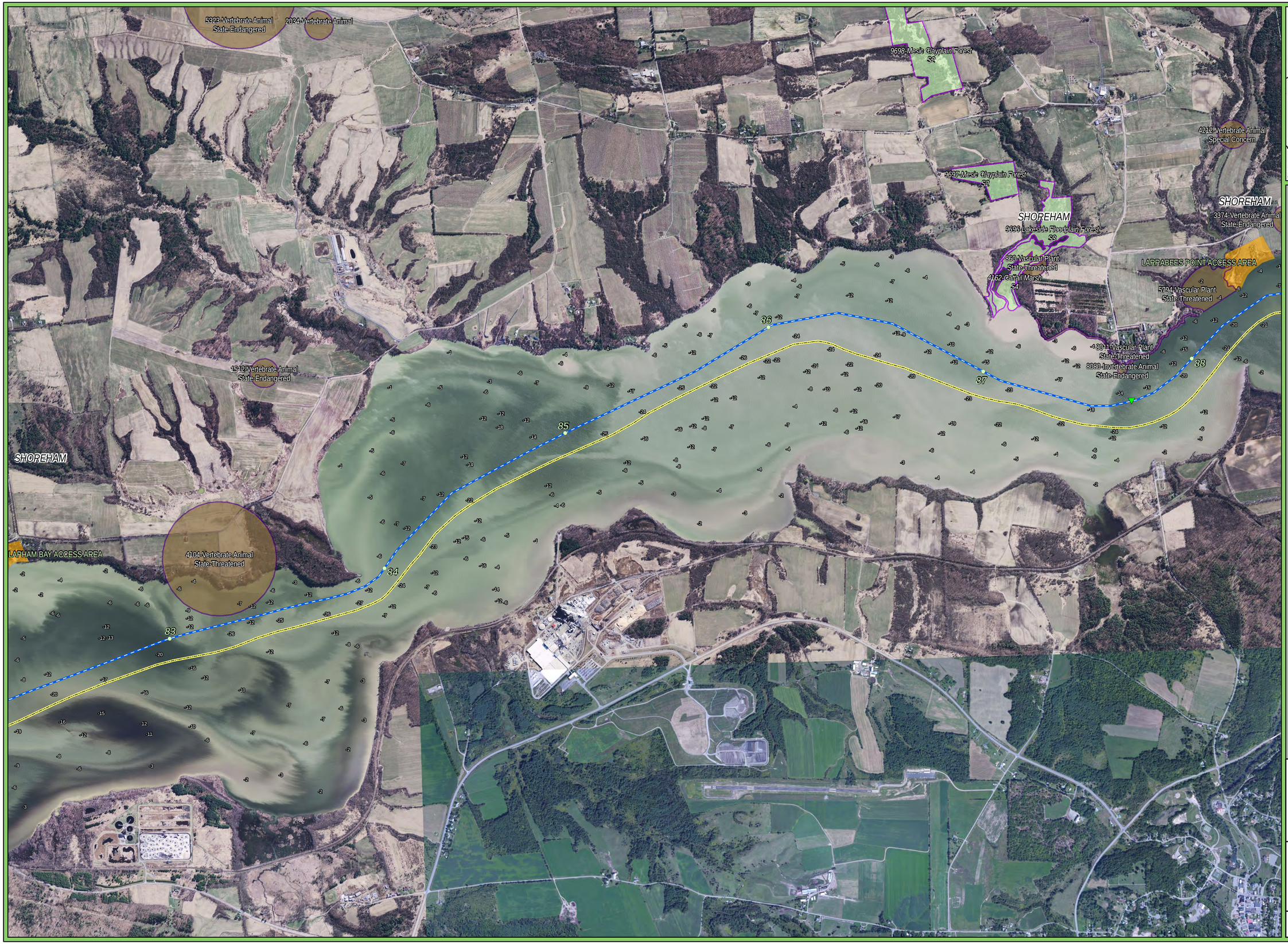
Lake Segment

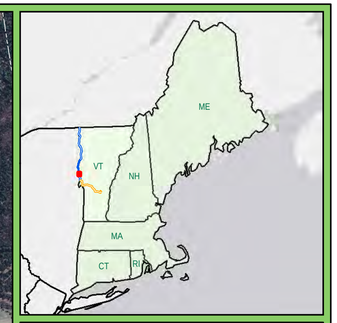
Grand Isle, Chittenden, Addison, and Rutland Counties

L-15

Created: 12/2/2014

TRC
14 Gabriel Drive
Augusta, ME 04330





Legend

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Feet

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New England Clean Power Link

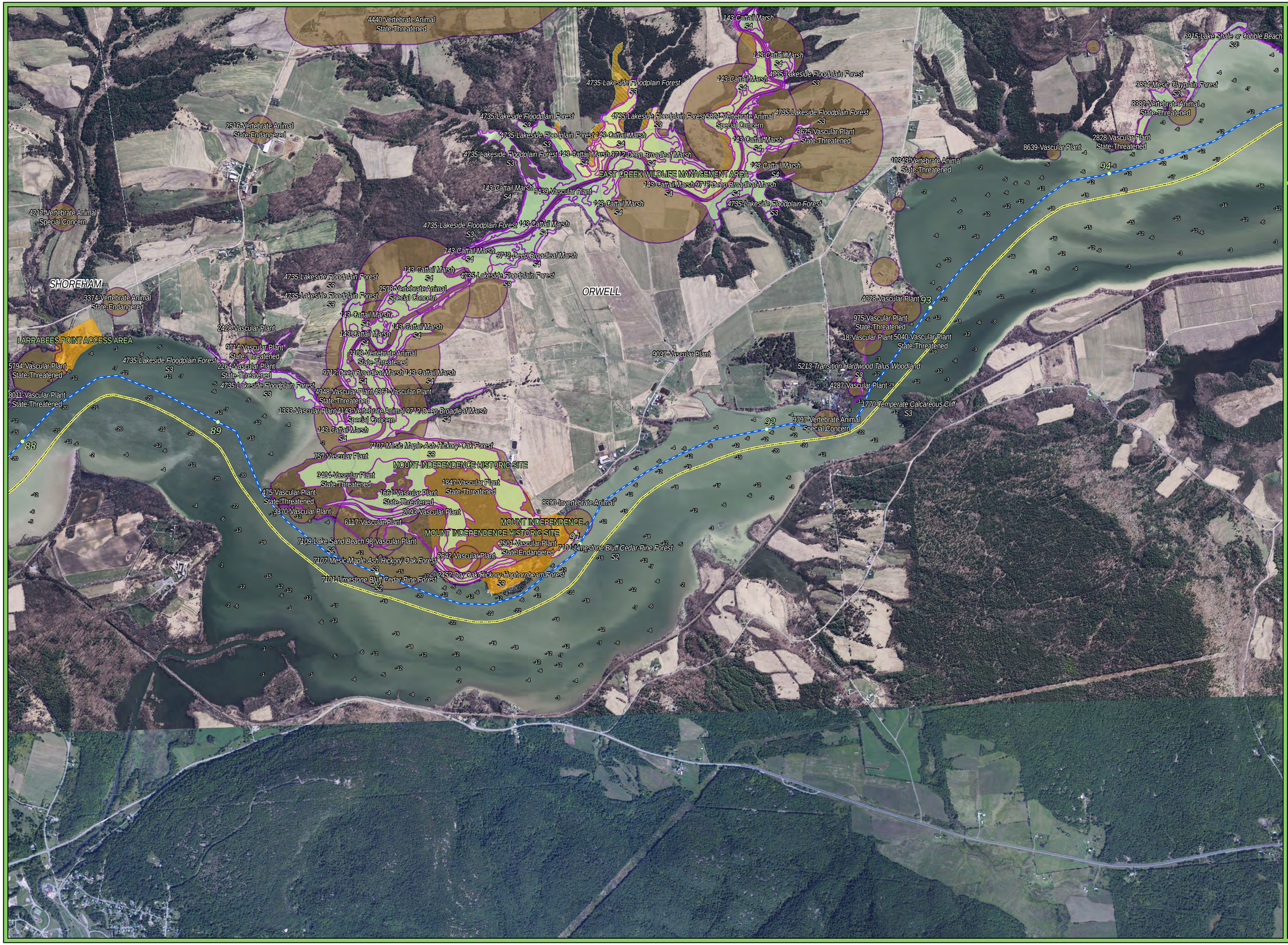
Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-16

Created: 12/2/2014

TRC 14 Gabriel Drive Augusta, ME 04330



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- Natural Community

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Feet

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New England Clean Power Link

Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-17

Created: 12/2/2014

TRC
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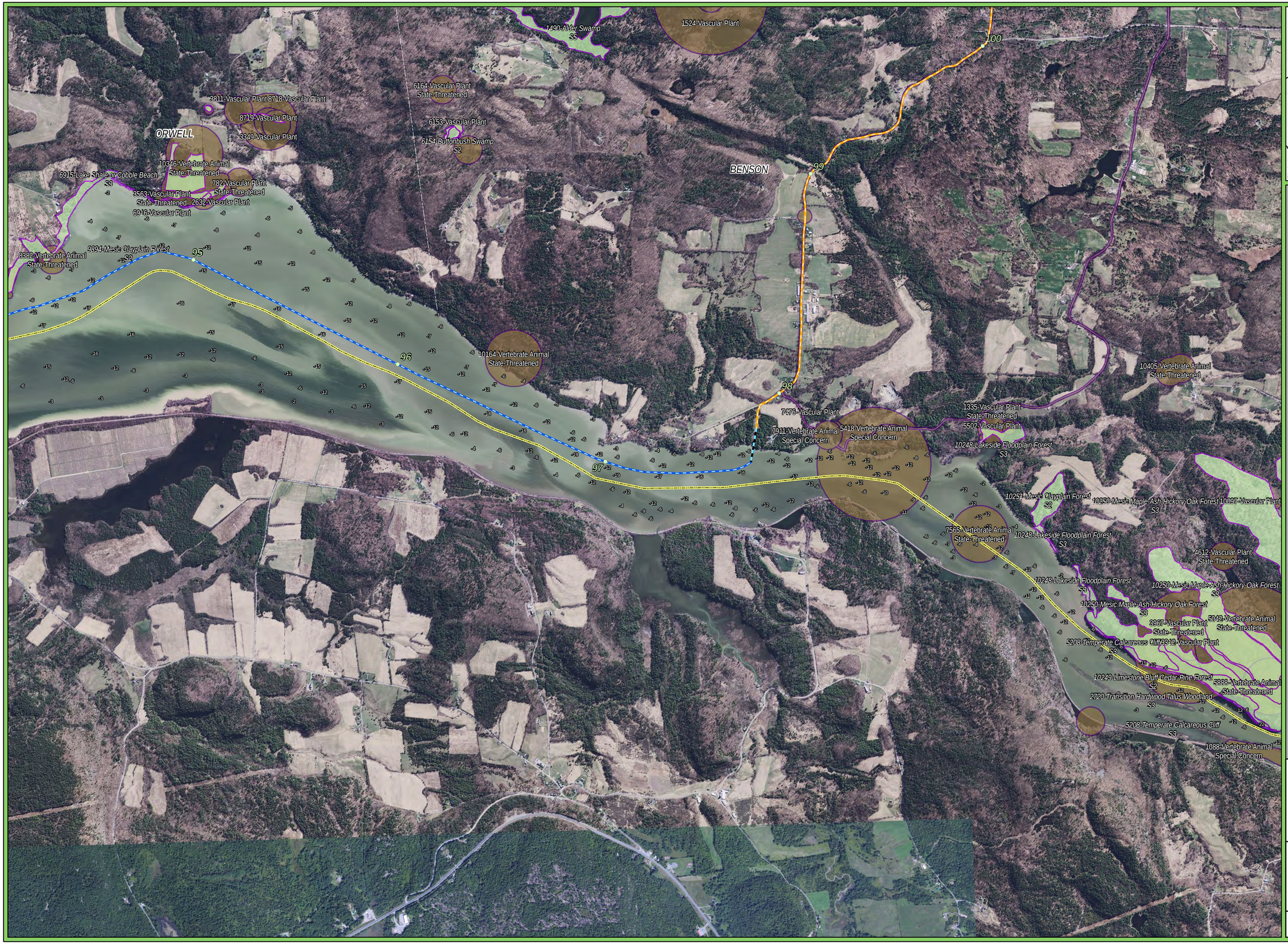
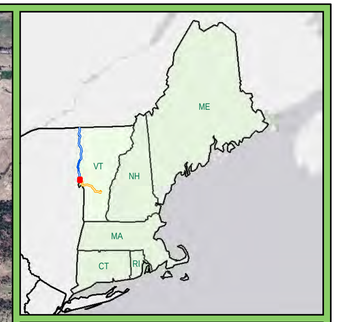
Augusta, ME 04330





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Feet

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New England Clean Power Link

Lake Segment

Grand Isle, Chittenden, Addison, and Rutland Counties

L-18

Created: 12/2/2014

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