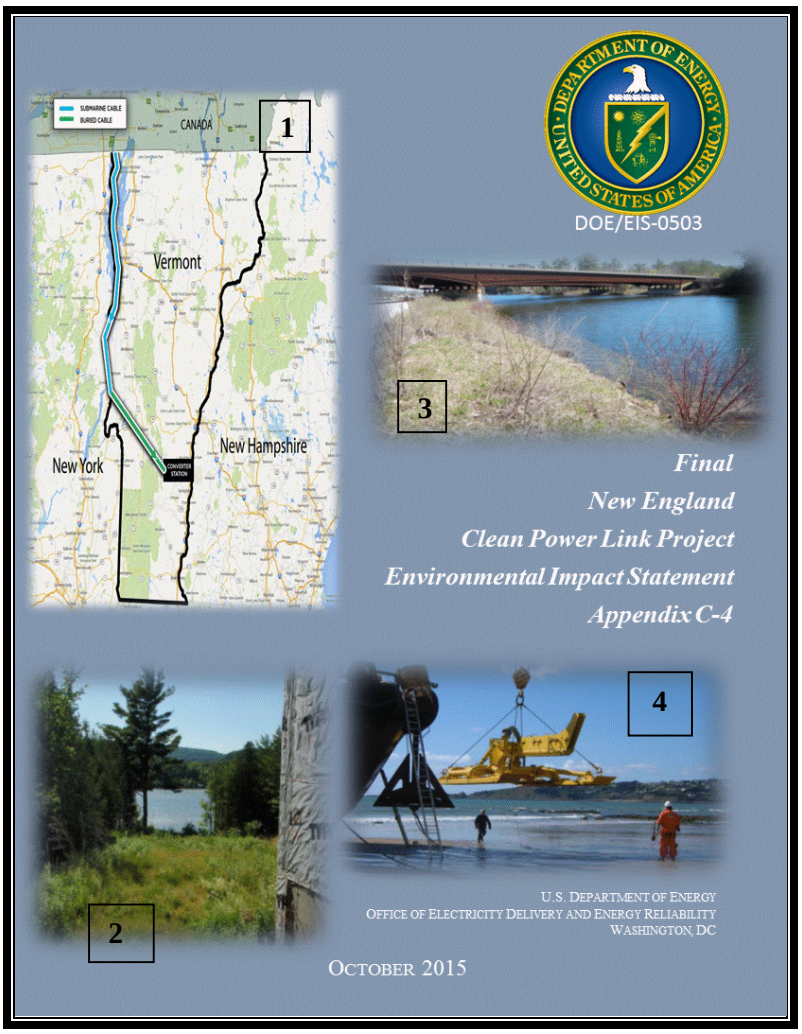
DOE/EIS-0503

# *Final New England Clean Power Link Project Environmental Impact Statement Appendix C-4*

U.S. DEPARTMENT OF ENERGY
OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY
WASHINGTON, DC

OCTOBER 2015




Cover Photo Credits

1. TDI-NE (*http://wamc/files/styles/default/public/201410/new-england-clean-power-link-map-ctsy-tdi-new-england.jpg" alt="">)*
2. NECPL exit from Lake Champlain (Benson, Vermont) courtesy of TDI-NE
3. Lake Bomoseen, Fair Haven, Vermont courtesy of TDI-NE
4. TDI-NE 2014a

FINAL

# NEW ENGLAND CLEAN POWER LINK PROJECT
# ENVIRONMENTAL IMPACT STATEMENT

DOE/EIS-0503

## VOLUME II: APPENDICES

## U.S. DEPARTMENT OF ENERGY
## OFFICE OF ELECTRICITY DELIVERY
## AND ENERGY RELIABILITY

## COOPERATING AGENCIES

## U.S. ENVIRONMENTAL PROTECTION AGENCY
## U.S. ARMY CORPS OF ENGINEERS
## U.S. COAST GUARD

OCTOBER 2015

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# APPENDIX C NECPL PROJECT TRANSMISSION SYSTEM DETAILED MAPS

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WALLINGFORD (WA)

MOUNT HOLLY (MH)

Sheet 37

Sheet 39

ROGER HILL RD

MILLBROOK LN

Unnamed Trib to Mill River

Mill River

VT 103

VT 140

VT 155

V-WA-S-102(JD)

V-WA-AS-101(P)

V-WA-AS-102(JD)

V-WA-AS-101(P)

V-WA-W-101

V-WA-AW-101

V-WA-W-101

V-WA-AW-101

V-WA-W-101

V-WA-W-101

V-WA-S-100(I)

V-WA-AS-100(I)

V-WA-AW-100

V-MH-AS-100(I)

V-MH-AS-101(I)

T-MH-W55

T-MH-W55

T-MH-AW-55

T-MH-AW-55

T-MH-AS-39(E)

V-WA-S-100(I)

T-MH-DITCH18(JD)

T-MH-AW-56

T-MH-W56

T-MH-AS-38(E)

T-MH-AS-40(E)

T-MH-S38(E)

T-MH-W53 NORTH

T-MH-W53 NORTH

T-MH-AW-53

T-MH-AW-53

T-MH-AS-37(P)

T-MH-DITCH17(JD)

T-MH-W54

T-MH-DITCH15(JD)

T-MH-S37(P)

T-MH-AS-36(E)

T-MH-AW-74

T-MH-W50

T-MH-W51

T-MH-AW-51

T-MH-AS-34(E)

T-MH-W48 NORTH

T-MH-AW-48

T-MH-AW-48

T-MH-AS-35(E)

T-MH-AW-50

T-MH-AW-49

1150

1200

1250

1300

1350

1400

1500

138.1

138.2

138.3

138.4

138.5

138.6

138.7

138.9

139

139.1

139.2

139.3

139.4

139.5

139.6

VCGI

Sources: Background provided by VCGI (2007-2013); Provided by VCGI: Roads by VTrans (2012); NRCS Soils by NRCS (2008); Streams & Waterbodies by VHD (2010), VSWI Wetlands by ANR (2013), Deer Wintering Area by ANR (2013), County and Town Boundaries by VCGI (2012); Bear Crossing & Feeding Data by VT Fish & Wildlife (2001) Provided by TRC: Contours (2014), Conceptual Project Alignment (2014), VTrans ROW (2014), Parcel Boundaries (2009-2013) 100-year flood & Floodway compiled by TRC from FEMA (2014), Wetland & Stream Delineations by TRC & VHB (2014); Bat tree, Natural Community and RTE data assessments completed by Arrowwood Environmental (2014); River Corridors provided by VTDEC (2014).

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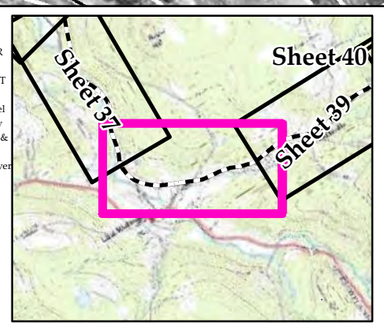


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- Jack and Bore
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- 10 Ft. Contour

# TDI - NECPL Project Overland Component Grand Isle, Rutland, & Windsor Counties, VT Natural Resource Map Series

Sheet Number 38 of 51

December 2, 2014

400 200 0 400 Feet

\\VTNFDATA\projects\57666.00 NE Clean Power Link\GIS\Project\NR_Maps\NRMaps_11x17_400scale.mxd exported by:acoplin On 12/2/2014

MOUNT HOLLY (MH)

1400
1350
1300
1250
1450

T-MH-AW-50
T-MH-AW-48
T-MH-AS-36(E)
T-MH-AS-35(E)
T-MH-AW-49
T-MH-W51
T-MH-AW-51
T-MH-AS-34(E)
T-MH-AS-33(I)
T-MH-W52
T-MH-AW-52
T-MH-DITCH16(JD)
T-MH-AW-73
T-MH-S31(P)
T-MH-AS-DITCH13(JD)
T-MH-S30(I)
T-MH-DITCH14(JD)
T-MH-DITCH13(JD)
T-MH-AS-32(I)
T-MH-S32(I)
T-MH-AS-31(P)
T-MH-AW-45
T-MH-AS-29(I)
T-MH-W41
T-MH-AW-41
T-MH-S28(P)
T-MH-W45
T-MH-W43
T-MH-AW-43
T-MH-AW-44
T-MH-AS-28(P)
T-MH-DITCH12(JD)
T-MH-AW-38
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T-MH-AS-27(E)
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State Rank: S2
Status: Not Listed
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T-MH-DITCH11(JD)
2014-RTE-ML-6
State Rank: S2
Status: Not Listed
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139.4
139.5
139.6
139.7
139.8
139.9
140
140.1
140.3
140.5

Unnamed Trib to Mill River

MILLBROOK LN
PACKER RD
BOWLSVILLE RD N
GATES RD N
GATES RD S
VT 103

Sheet 38
Sheet 40

VCGI

Sources: Background provided by VCGI (2007-2013); Provided by VCGI: Roads by VTrans (2012); NRCS Soils by NRCS (2008); Streams & Waterbodies by VHD (2010), VSWI Wetlands by ANR (2013), Deer Wintering Area by ANR (2013), County and Town Boundaries by VCGI (2012); Bear Crossing & Feeding Data by VT Fish & Wildlife (2001) Provided by TRC: Contours (2014), Conceptual Project Alignment (2014), VTrans ROW (2014), Parcel Boundaries (2009-2013) 100-year flood & Floodway compiled by TRC from FEMA (2014), Wetland & Stream Delineations by TRC & VHB (2014); Bat tree, Natural Community and RTE data assessments completed by Arrowwood Environmental (2014); River Corridors provided by VTDEC (2014).

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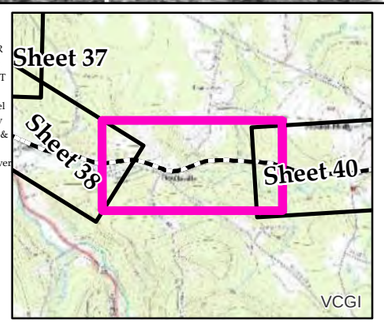


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## Grand Isle, Rutland, & Windsor Counties, VT
## Natural Resource Map Series

Sheet Number 39 of 51

December 2, 2014

N

400 200 0 400 Feet

\\VTNFDATA\projects\57666.00 NE Clean Power Link\GIS\Project\NR_Maps\NRMaps_11x17_400scale.mxd exported by:acoplin On 12/2/2014

COLE RD
LITTLE LN
MOUNT HOLLY (MH)
HORTONVILLE RD
SCHOOL ST
BELMONT RD
Unnamed Trib to Mill River
Sheet 39
Sheet 41
T-MH-AS-11(JD)
T-MH-W38
T-MH-AW-38
T-MH-S27(E)
T-MH-AW-37
T-MH-W37
T-MH-AW-36
T-MH-DITCH12(JD)
T-MH-DITCH11(JD)
T-MH-AS-27(E)
T-MH-W36
T-MH-DITCH10(JD)
T-MH-W34
T-MH-AW-39
T-MH-AW-35
T-MH-AW-34
T-MH-AW-33
T-MH-S26(E)
T-MH-DITCH9(JD)
T-MH-S25(I)
T-MH-AW-32
T-MH-W31
T-MH-W32
T-MH-AS-25(I)
T-MH-AW-29
T-MH-W30
T-MH-AW-30
T-MH-AS-24(I)
T-MH-S24(I)
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T-MH-AW-27
T-MH-AW-26
T-MH-AS-23(P)
T-MH-AW-70
T-MH-AW-69
1450
1500
1400
VCGI

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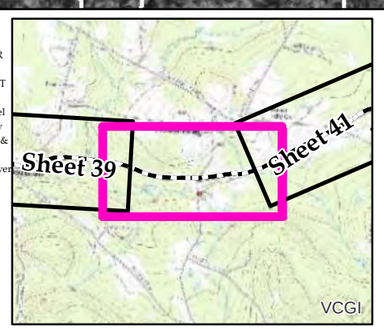


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HORTONVILLE RD
OLD TURNPIKE RD
MOUNT HOLLY (MH)
Unnamed Trib to Mill River
Sheet 40
Sheet 42
SUMMIT RD
VT 103
Type = A
State Rank = S1B
State Listed = N
Federal Rank =
T-MH-W28
T-MH-AW-28
T-MH-W27
T-MH-AW-27
T-MH-AW-26
T-MH-W26
T-MH-W25
T-MH-AW-25
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T-MH-AW-69
T-MH-AW-70
2014-RTE-ML-8
State Rank: S2
Status: Not Listed
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T-MH-AW-24
T-MH-AS-41(I)
T-MH-AW-23
T-MH-W23
T-MH-S21(I)
T-MH-AS-21(I)
T-MH-AW-21
T-MH-W21
T-MH-AW-22
T-MH-AW-20
T-MH-W20
2014-RTE-ML-11
State Rank: S2
Status: Not Listed
2014-RTE-ML-10
State Rank: S2
Status: Not Listed
1450
1500
141.6
141.8
141.9
142
142.1
142.2
142.3
142.4
142.5
142.6
142.7
142.8
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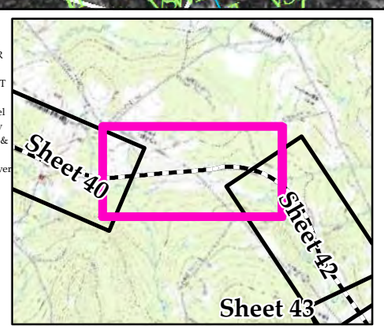


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Sheet Number 41 of 51

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400 200 0 400 Feet

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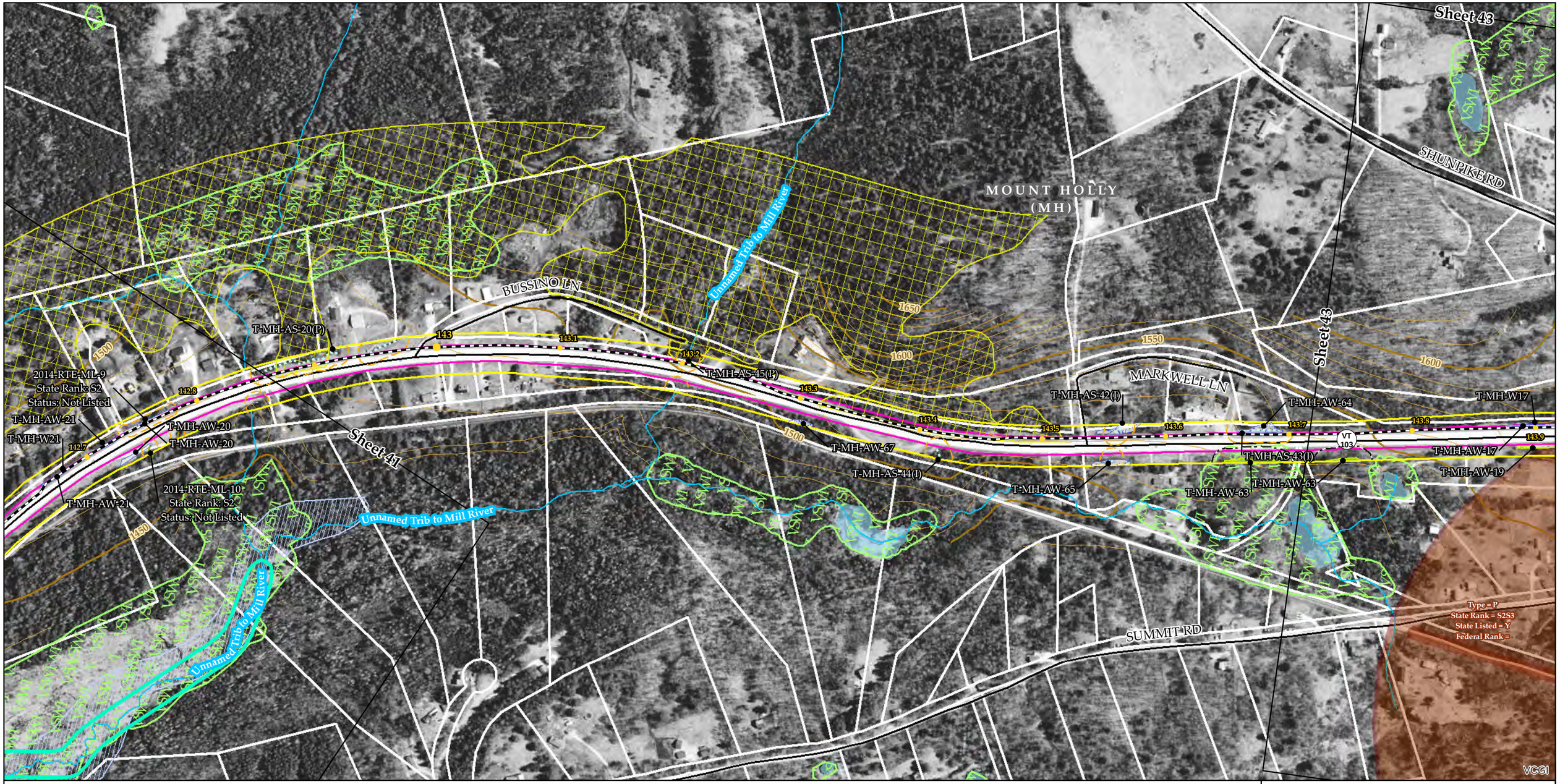


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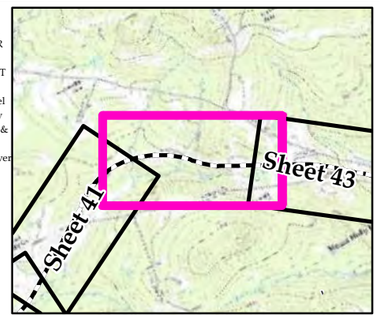


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# Grand Isle, Rutland, & Windsor Counties, VT
# Natural Resource Map Series

Sheet Number 42 of 51

December 2, 2014

400 200 0 400 Feet

\\VTNFDATA\projects\57666.00 NE Clean Power Link\GIS\Project\NR_Maps\NRMaps_11x17_400scale.mxd exported by:acoplin On 12/2/2014

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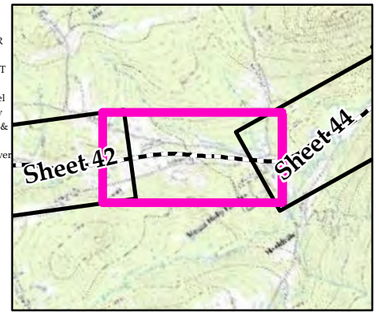


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400 200 0 400 Feet

\\VTNFDATA\projects\57666.00 NE Clean Power Link\GIS\Project\NR_Maps\NRMaps_11x17_400scale.mxd exported by:acoplin On 12/2/2014

MOUNT HOLLY (MH)

SAWYER HILL RD

Sheet 43

Sheet 45

CHALET DR

GREENSTAND RD

STATION RD

HEALDVILLE RD

Branch Brook

Unnamed Trib to Branch Brook

VT 103

T-MH-AS-15(I)
T-MH-S14(P)
T-MH-AS-14(P)
T-MH-AW-7
T-MH-W6
T-MH-AW-6
T-MH-AS-13(E)
T-MH-AW-6
T-MH-AS-12(E)
T-MH-AS-10(P)
T-MH-S10(P)
T-MH-AW-5
T-MH-AW-5
T-MH-AS-10(P)
T-MH-AW-4
T-MH-W4
T-MH-AW-60
T-MH-AS-4(E)
T-MH-AS-4(I)
T-MH-AS-4(I)
T-MH-S4(I)
T-MH-AS-8(E)
2014-RTE-CS-6
State Rank: S2
Status: Not Listed
T-MH-AS-6(E)
T-MH-S5(I)
T-MH-AS-5(I)

144.8
144.9
145
145.1
145.2
145.3
145.4
145.5
145.6
145.7
145.8
145.9
146

1350
1400
1450
1500
1300

VSWI
SWI

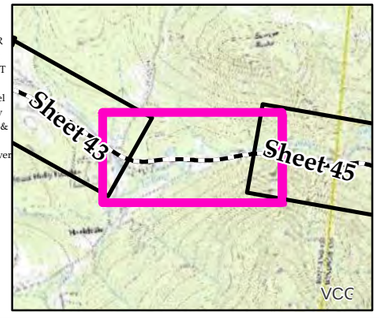
Type = C
State Rank = S5
State Listed = N/A
Federal Rank =

VCGI

Sources: Background provided by VCGI (2007-2013); Provided by VCGI: Roads by VTrans (2012); NRCS Soils by NRCS (2008); Streams & Waterbodies by VHD (2010), VSWI Wetlands by ANR (2013), Deer Wintering Area by ANR (2013), County and Town Boundaries by VCGI (2012); Bear Crossing & Feeding Data by VT Fish & Wildlife (2001) Provided by TRC: Contours (2014), Conceptual Project Alignment (2014), VTrans ROW (2014), Parcel Boundaries (2009-2013) 100-year flood & Floodway compiled by TRC from FEMA (2014), Wetland & Stream Delineations by TRC & VHB (2014); Bat tree, Natural Community and RTE data assessments completed by Arrowwood Environmental (2014); River Corridors provided by VTDEC (2014).

vhb

TRC Results you can rely on




NECPL Proposed Overland Alignment (TRC)
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- 50 Ft. Contour
- 10 Ft. Contour

# TDI - NECPL Project
# Overland Component
# Grand Isle, Rutland, & Windsor Counties, VT
# Natural Resource Map Series

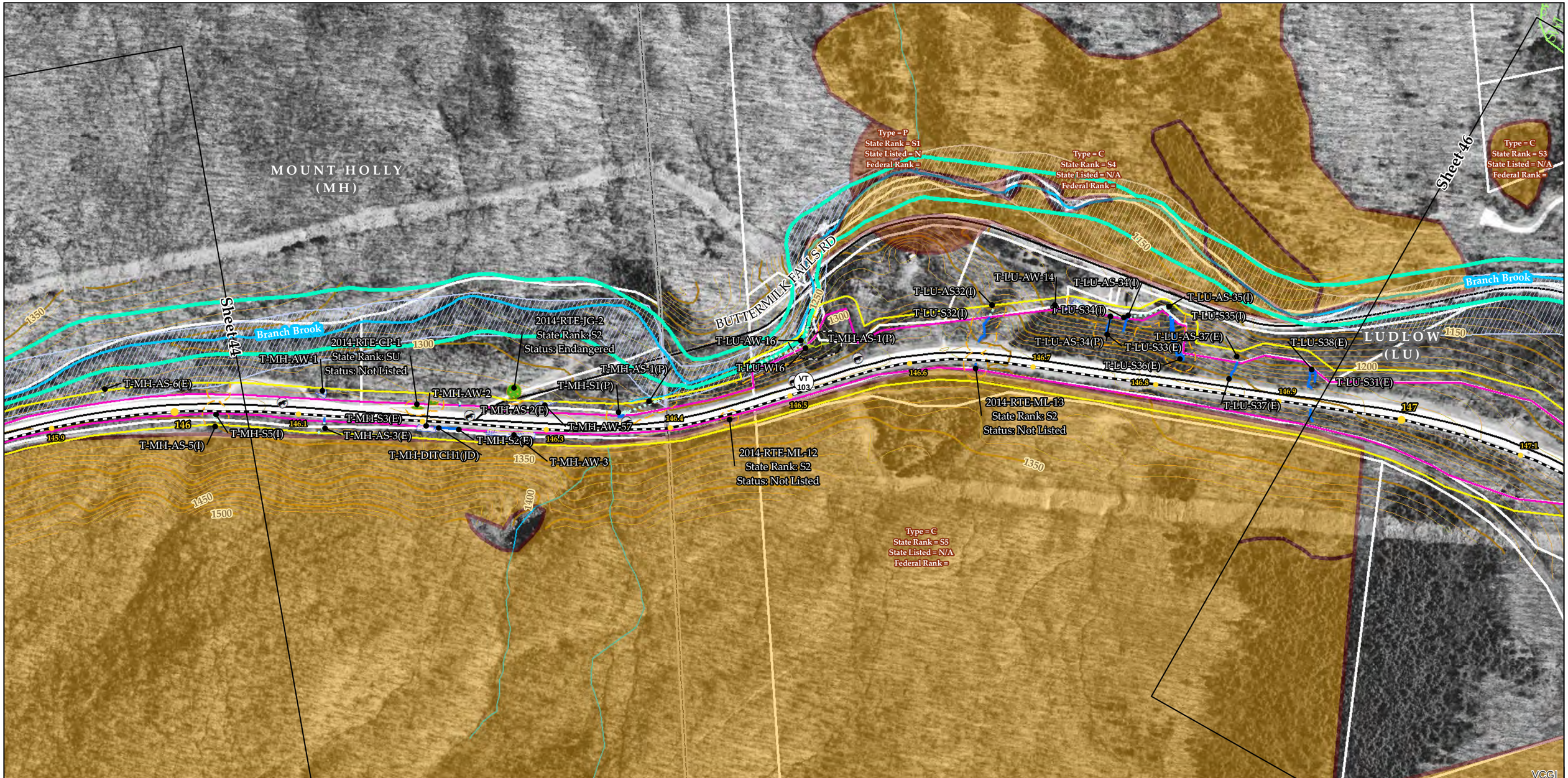
Sheet Number 44 of 51

December 2, 2014

N

400 200 0 400 Feet

\\VTNFDATA\projects\57666.00 NE Clean Power Link\GIS\Project\NR_Maps\NRMaps_11x17_400scale.mxd exported by:acoplin On 12/2/2014

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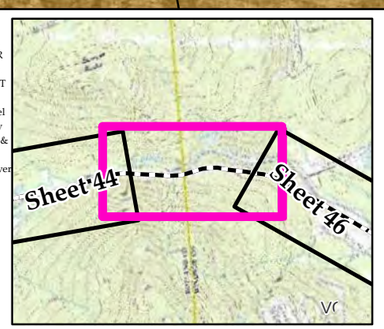


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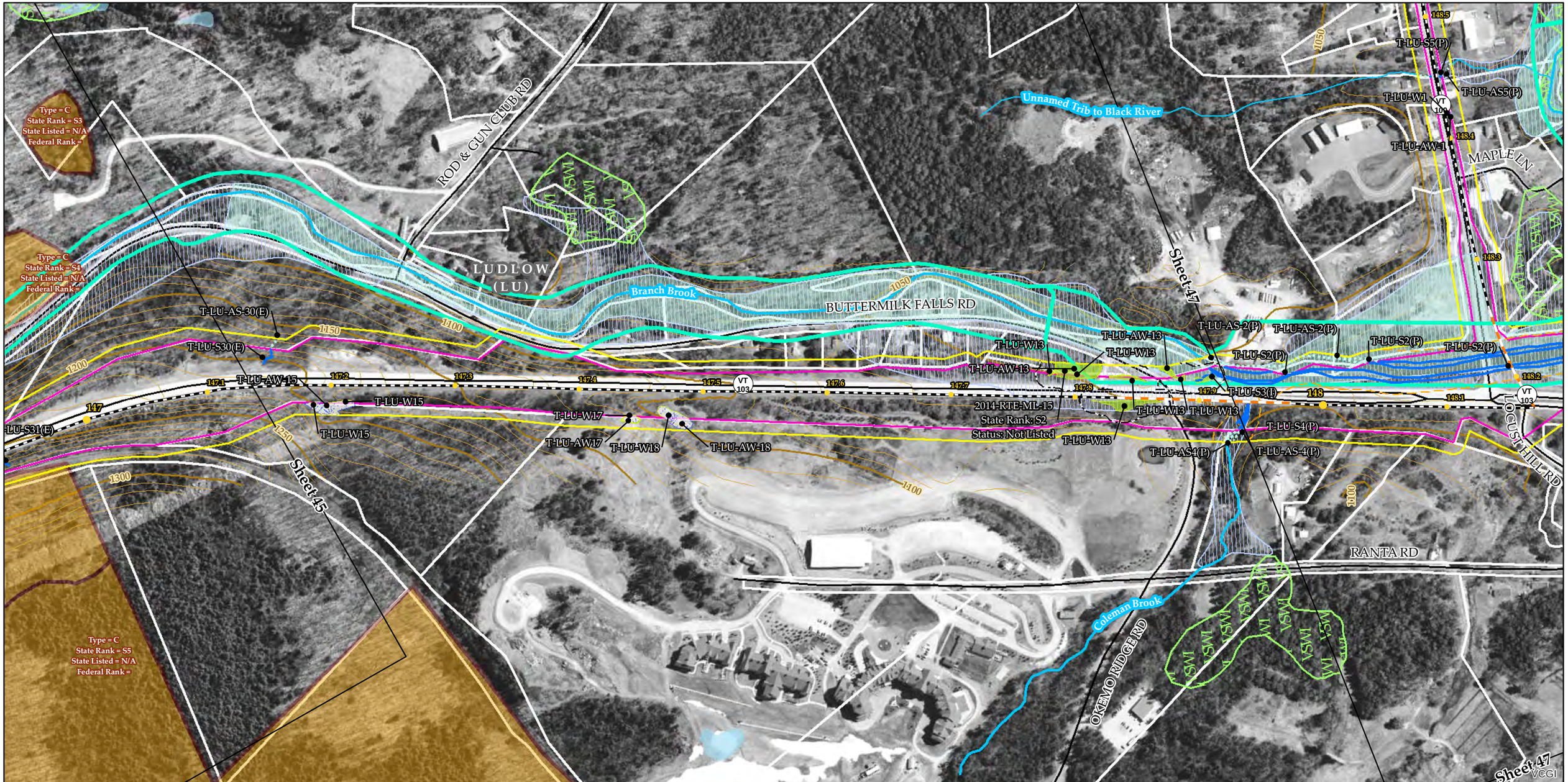
# Grand Isle, Rutland, & Windsor Counties, VT
# Natural Resource Map Series

Sheet Number 45 of 51

December 2, 2014

400 200 0 400 Feet

\\VTNFDATA\projects\57666.00 NE Clean Power Link\GIS\Project\NR_Maps\NRMaps_11x17_400scale.mxd exported by:acoplin On 12/2/2014

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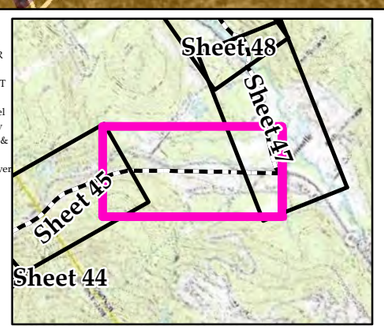


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# TDI - NECPL Project
# Overland Component
# Grand Isle, Rutland, & Windsor Counties, VT
# Natural Resource Map Series

Sheet Number 46 of 51

December 2, 2014

400 200 0 400 Feet

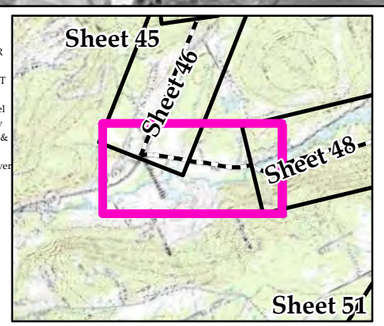
\\VTNFDATA\projects\57666.00 NE Clean Power Link\GIS\Project\NR_Maps\NRMaps_11x17_400scale.mxd exported by:acoplin On 12/2/2014

Sheet 46
RANTA RD
MEGA WATT LN
LOCUST HILL RD
FOX LN
MAPLE LN
LUDLOW (LU)
ROD & GUN CLUB RD
EAST LAKE RD
Black River
Unnamed Trib to Black River
Sheet 48
VT 103
VT 100
T-LU-S4(P)
T-LU-S2(P)
T-LU-S2(P)
T-LU-AS-2(P)
T-LU-W1
T-LU-AW-1
T-LU-S5(P)
T-LU-AS5(P)
T-LU-AS-2(P)
T-LU-S1(P)
T-LU-S29(P)
T-LU-AS-1(P)
T-LU-AS-1(P)
T-LU-AS-29(P)
2014-RTE-AT-2
State Rank: S1
Status: Threatened
1100
1050
148
148.1
148.2
148.3
148.5
148.6
148.7
148.8
148.9
149.1
VSWI

Sources: Background provided by VCGI (2007-2013); Provided by VCGI: Roads by VTrans (2012); NRCS Soils by NRCS (2008); Streams & Waterbodies by VHD (2010), VSWI Wetlands by ANR (2013), Deer Wintering Area by ANR (2013), County and Town Boundaries by VCGI (2012); Bear Crossing & Feeding Data by VT Fish & Wildlife (2001) Provided by TRC: Contours (2014), Conceptual Project Alignment (2014), VTrans ROW (2014), Parcel Boundaries (2009-2013) 100-year flood & Floodway compiled by TRC from FEMA (2014), Wetland & Stream Delineations by TRC & VHB (2014); Bat tree, Natural Community and RTE data assessments completed by Arrowwood Environmental (2014); River Corridors provided by VTDEC (2014).

vhb

TRC Results you can rely on

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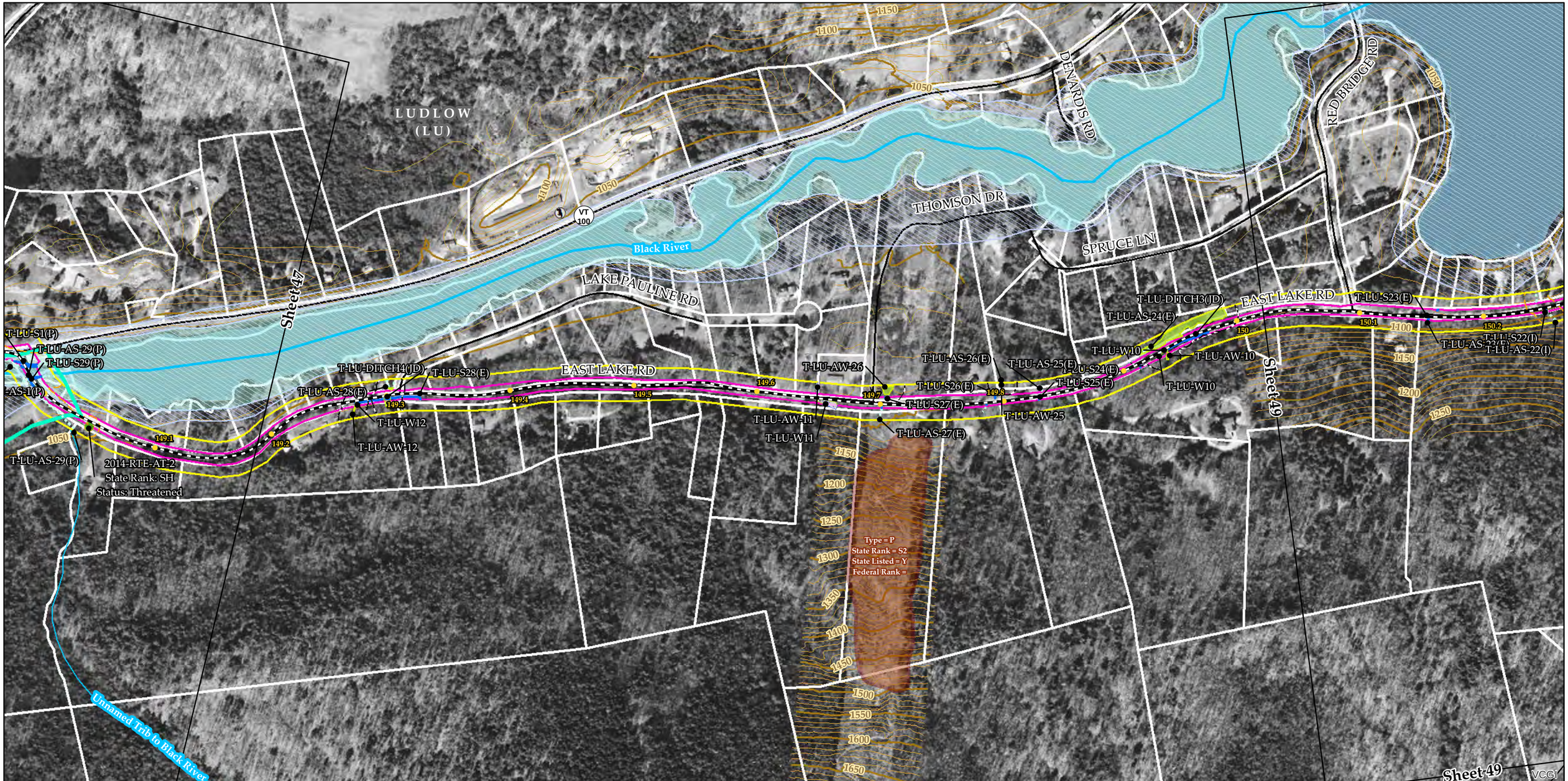
# Grand Isle, Rutland, & Windsor Counties, VT
# Natural Resource Map Series

Sheet Number 47 of 51

December 2, 2014

400 200 0 400 Feet

\\VTNFDATA\projects\57666.00 NE Clean Power Link\GIS\Project\NR_Maps\NRMaps_11x17_400scale.mxd exported by:acoplin On 12/2/2014

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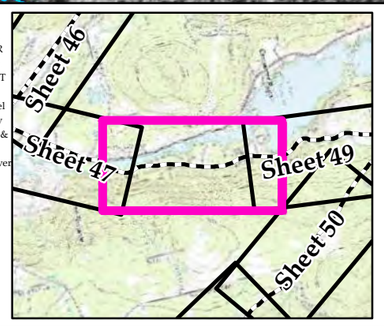


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- Road (VTrans)
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- 10 Ft. Contour

# TDI - NECPL Project Overland Component Grand Isle, Rutland, & Windsor Counties, VT Natural Resource Map Series

Sheet Number 48 of 51

December 2, 2014

400 200 0 400 Feet

\\VTNFDATA\projects\57666.00 NE Clean Power Link\GIS\Project\NR_Maps\NRMaps_11x17_400scale.mxd exported by:acoplin On 12/2/2014

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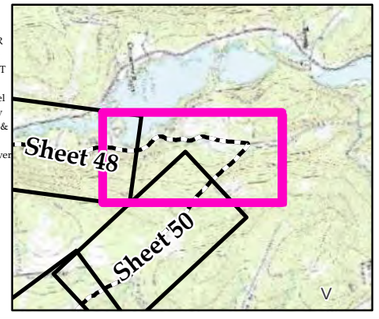


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# TDI - NECPL Project
## Overland Component
## Grand Isle, Rutland, & Windsor Counties, VT
## Natural Resource Map Series

Sheet Number 49 of 51

December 2, 2014

400 200 0 400 Feet

LUDLOW
(LU)

Unnamed Trib to Black River

Unnamed Trib to Twentymile Stream

PETTINER HILL RD

NELSON RD

NORTH HILL PENT RD

NORTH HILL CROSS RD

Sheet 49

Sheet 51

T-LU-AW-7
T-LU-S14(I)
T-LU-AS-12(P)
T-LU-S13(I)
T-LU-AS-13(I)
T-LU-W6
T-LU-S12(P)
T-LU-AS-15(P)
T-LU-S15(P)
T-LU-AS-12(P)
T-LU-AS-14(I)
T-LU-AW-5
T-LU-W5
T-LU-AW-4
T-LU-W4
T-LU-S11(I)
T-LU-AS-11(I)
T-LU-AS-10(I)
T-LU-AW-24
T-LU-S10(I)

1650
1600
1550
1500
1450
1400
1350

151.5
151.6
151.7
151.8
151.9
152
152.1
152.2
152.4
152.5
152.6
152.7

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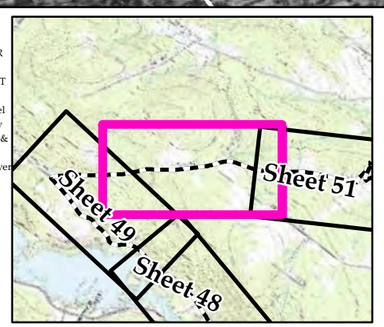
vhb

TRC
Results you can rely on

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Sheet Number 50 of 51

December 2, 2014

400 200 0 400 Feet

\\VTNFDATA\projects\57666.00 NE Clean Power Link\GIS\Project\NR_Maps\NRMaps_11x17_400scale.mxd exported by:acoplin On 12/2/2014

Proposed Stormwater Basin

AC Transmission Cable

Proposed Converter Station

CAVENDISH (CA)

NELSON RD

LUDLOW (LU)

BARKER RD

NORTH HILL CROSS RD

Unnamed Trib to Twentymile Stream

T-LU-AW-24 T-LU-AS-9(E) T-LU-S9(E) T-LU-W3 T-LU-AW-3 T-LU-AS-7(E) T-LU-AS-6(I) T-LU-AW-2 T-LU-DITCH1(JD) T-LU-AW-23 T-LU-AW-20 T-LU-W19

152.6 152.7 152.8 152.9 153 153.1 153.2 153.3 153.4 153.5 153.6 153.7 153.8 153.9 154 154.1

1300 1350 1400 1450 1500 1550 1600

Sheet 50

VCGI

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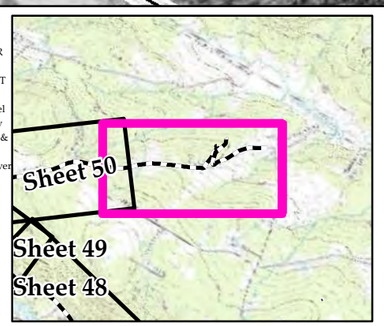


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Sheet Number 51 of 51

December 2, 2014

400 200 0 400 Feet

\\VTNFDATA\projects\57666.00 NE Clean Power Link\GIS\Project\NR_Maps\NRMaps_11x17_400scale.mxd exported by:acoplin On 12/2/2014