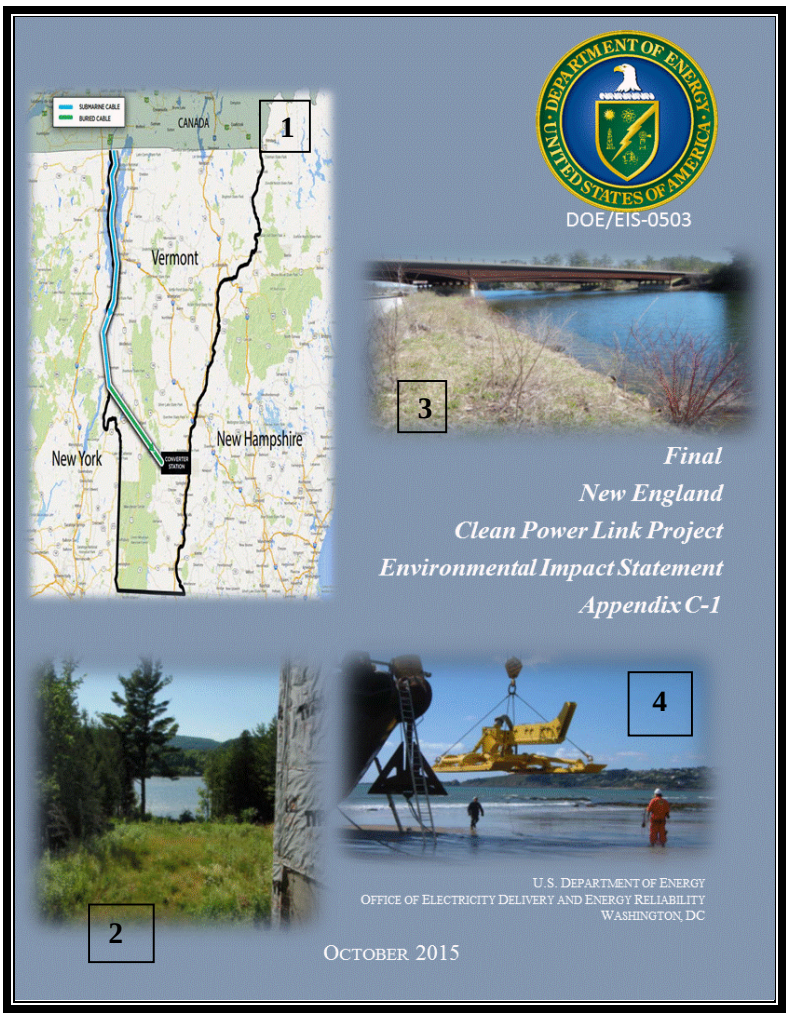
DOE/EIS-0503

Final New England Clean Power Link Project Environmental Impact Statement Appendix C-1

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

This Page Intentionally Left Blank

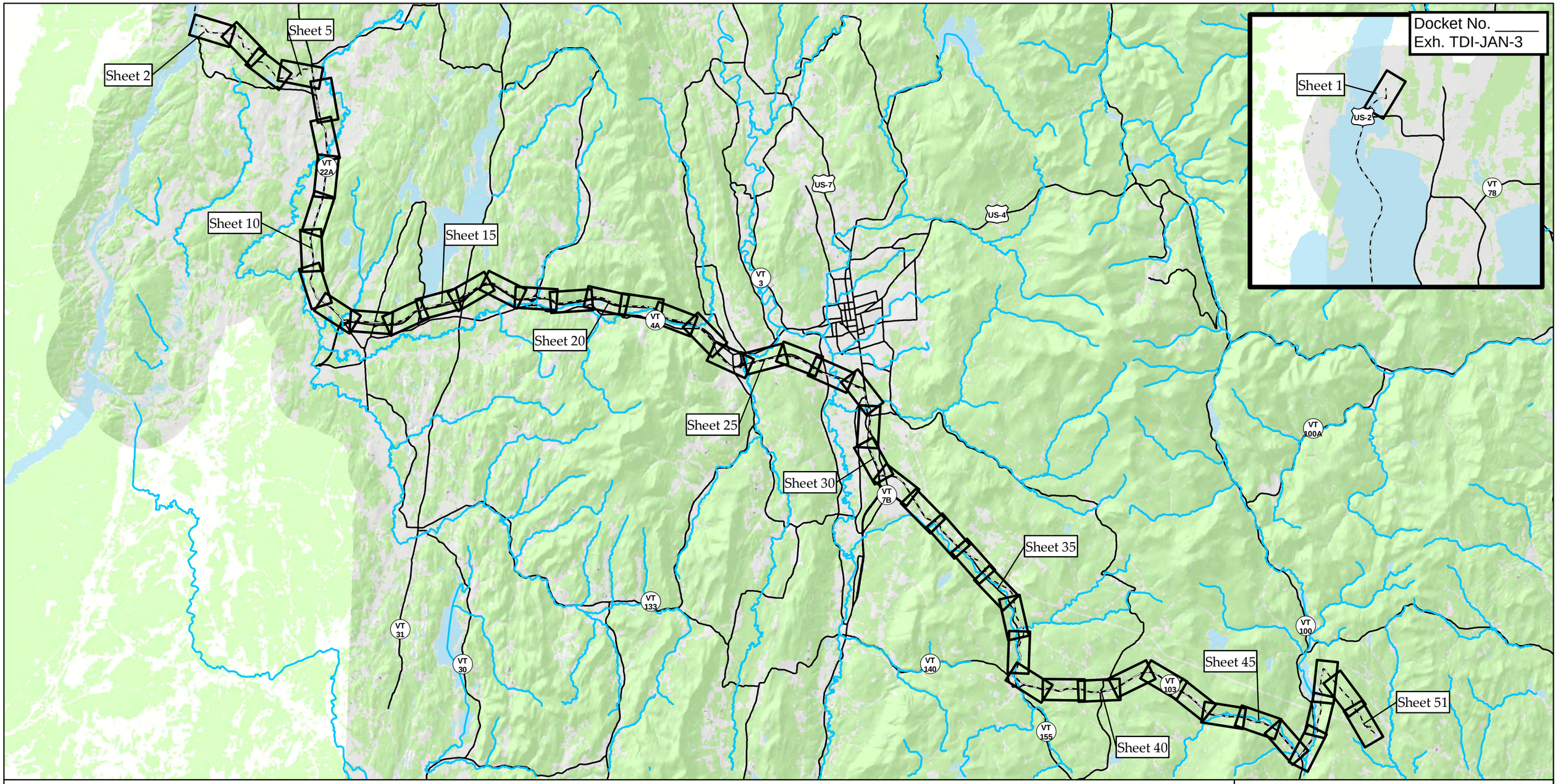
Table of Contents

Appendix A	Appendix A	Scoping Summary Report	A-1
Appendix B	Appendix B	EIS Distribution List	B-1
Appendix C	Appendix C	NECPL Project Transmission System Detailed Maps	C-1
Appendix D	Appendix D	Alternatives Considered but Eliminated From Further Analysis	D-1
Appendix E	Appendix E	CWA Section 404 and Section 10 Permit Application	E-1
Appendix F	Appendix F	Vermont 248 Application Cover Letter	F-1
Appendix G	Appendix G	TDI-NE General Mitigation Strategies	G-1
Appendix H	Appendix H	ESA Section 7 Documentation	H-1
Appendix I	Appendix I	NHPA Section 106 Documentation	I-1
Appendix J	Appendix J	Environmental Justice Analysis Background	J-1
Appendix K	Appendix K	Air Quality Analysis Background	K-1
Appendix L	Appendix L	Contractor Disclosure Statement	L-1
Appendix M	Appendix M	Comment Response Document	M-1

This Page Intentionally Left Blank

APPENDIX C NECPL PROJECT TRANSMISSION SYSTEM DETAILED MAPS

This Page Intentionally Left Blank



Sources: Land Use Land Cover & Hillshade provided by VCGI (2002); Statewide datasets provided by VCGI: Roads by VTrans (2013); NRCS Soils by NRCS (2008); Streams & Waterbodies by VHD (2010), County and Town Boundaries by VCGI (2012), Provided by TRC: Conceptual Project Alignment (2014)

- NECPL Proposed Alignment (TRC)
- Streams (VHD)
- Sheet Outline
- Waterbody (VHD)
- Roads
- Town Boundary (VCGI)
- County Boundary (VCGI)

N

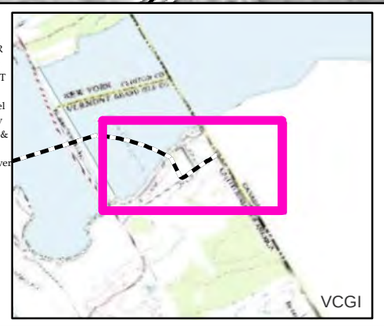
2 1 0 2 Miles

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

December 2, 2014

\\VTNFDATA\projects\57666.00 NE Clean Power Link\GIS\Project\NR_Maps\NRMaps_11x17_INDEX.mxd exported by:acoplin On 12/2/2014

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).



NECPL Proposed Overland Alignment (TRC)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

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

Sheet Number 1 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

Unnamed Trib to Lake Champlain

Unnamed Trib to Lake Champlain

Unnamed Trib to Lake Champlain

FRAZIER HILL RD

100 ft Lake Buffer

Lake Champlain

V-BE-LC(L)

2014-RTE-CES-1
State Rank: S3

STONY POINT RD

BENSON
(BE)

V-BE-S-1(I)

V-BE-W-1

V-BE-W-2

V-BE-S-2(E)

Type = A
State Rank = S2
State Listed =
Federal Rank =

2014-RTE-AN-1
State Rank: S3

2014-RTE-CES-2
State Rank: S3

2014-RTE-CES-3
State Rank: S3

2014-RTE-CES-4
State Rank: S3

Type = A
State Rank = S2
State Listed = Y
Federal Rank =

N LAKE RD

Sheet 3

N LAKE RD

Type = P
State Rank = S3
State Listed =
Federal Rank =

NEW YORK

VERMONT

Type = A
State Rank = S3
State Listed = N
Federal Rank =

Type = A
State Rank = S2
State Listed = N
Federal Rank =

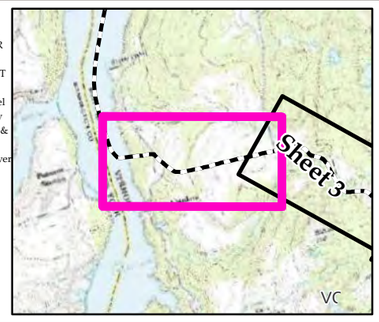
Type = P
State Rank = S2
State Listed = N
Federal Rank =

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)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

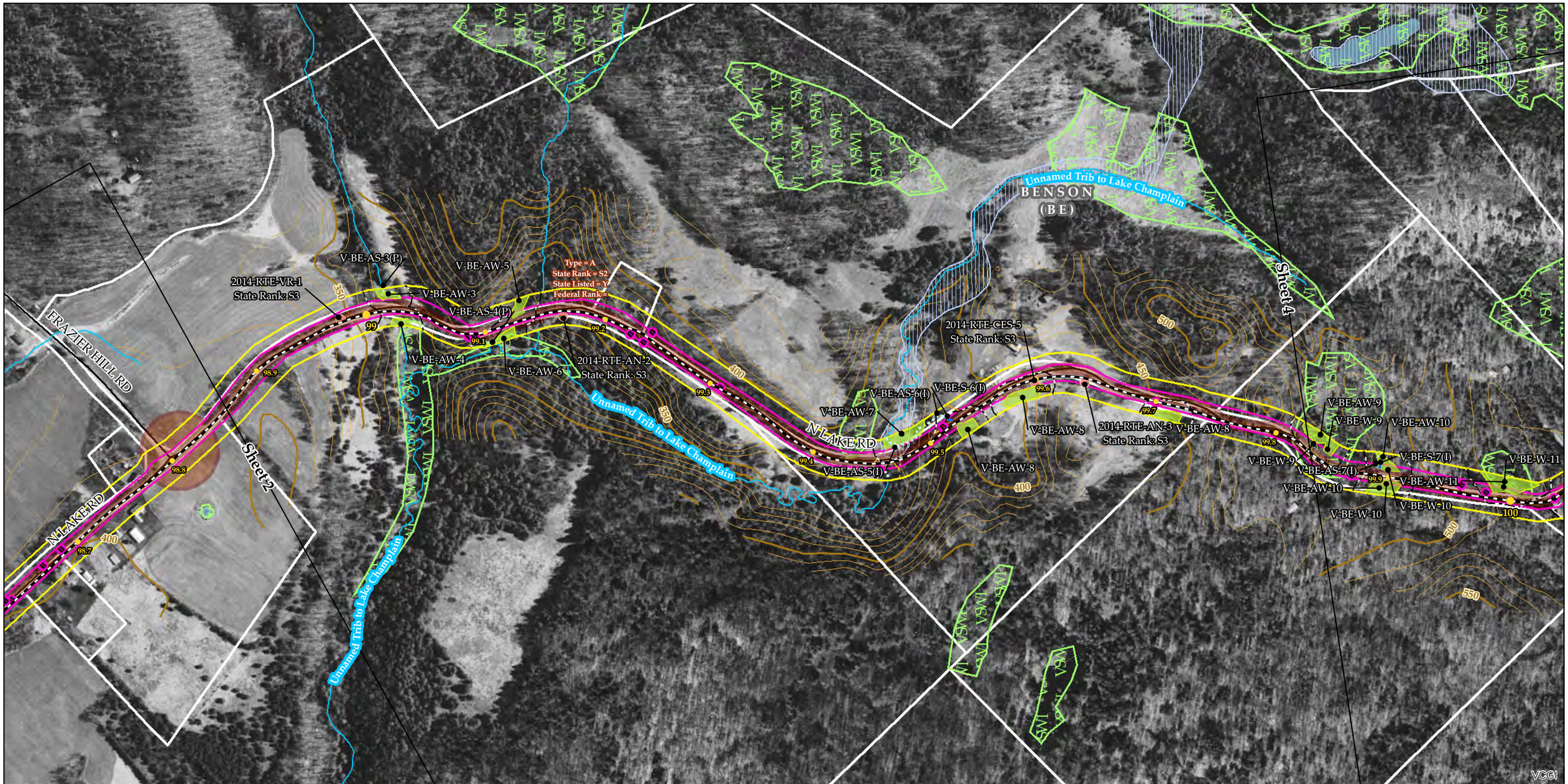
TDI - NECPL Project
Overland Component
Grand Isle, Rutland, & Windsor Counties, VT
Natural Resource Map Series

Sheet Number 2 of 51

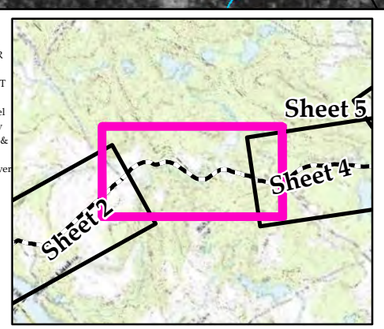
December 2, 2014

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



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).



NECPL Proposed Overland Alignment (TRC)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

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

Sheet Number 3 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

BENSON (BE)

OLD NORTH LAKE RD

N LAKE RD

LAKE RD

Sheet 3

Sheet 5

Unnamed Trib to Hubbardton River

2014-RTE-VR-4
State Rank: S3

2014-RTE-VR-5
State Rank: S3

2014-RTE-VR-3
State Rank: S3

2014-RTE-VR-2
State Rank: S3

2014-RTE-SC-1
State Rank: S2S3
Status: Not Listed

Type = A
State Rank = S2
State Listed = N
Federal Rank =

Type = A
State Rank = S2
State Listed = Y
Federal Rank =

Type = P
State Rank = S3
State Listed =
Federal Rank =

V-BE-AW-9
V-BE-W-9
V-BE-AS-7(I)
V-BE-S-7(I)
V-BE-W-10
V-BE-AW-10
V-BE-W-11
V-BE-AW-11
V-BE-AW-12
V-BE-W-12
V-BE-W-13
V-BE-AW-14
V-BE-W-14
V-BE-S-8(P)
V-BE-AS-8(P)
V-BE-AW-15
V-BE-W-15
V-BE-AW-16
V-BE-S-9(JD)
V-BE-AS-9(JD)
V-BE-AW-17
V-BE-AS-10(P)

100 100.1 100.2 100.4 100.5 100.6 100.8 100.9 101 101.1

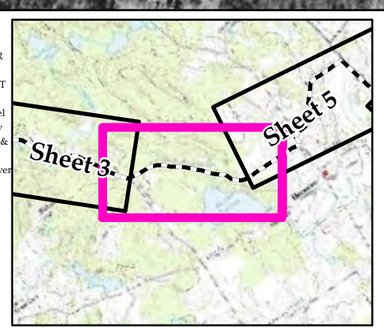
450 500 550

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)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

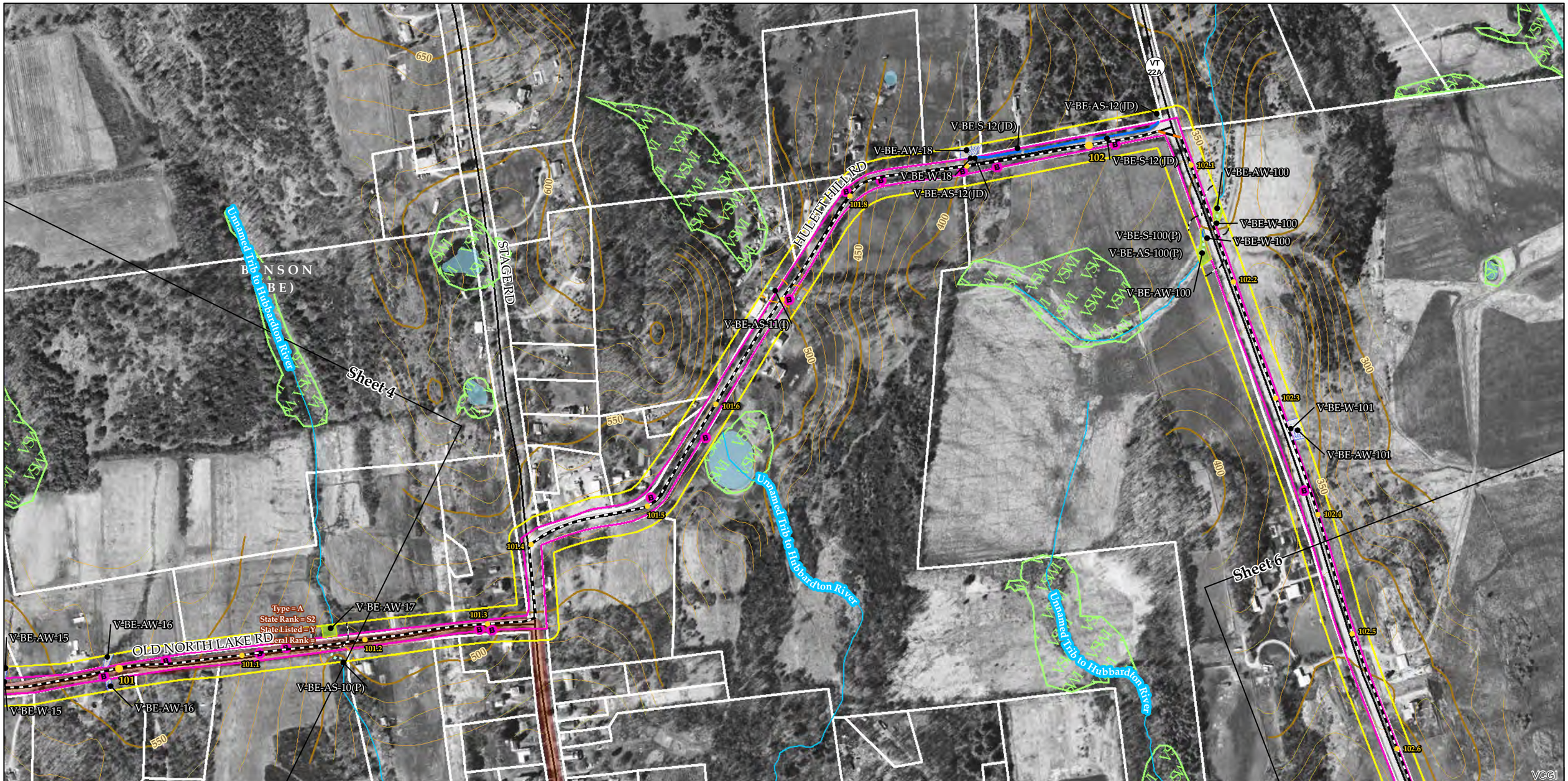
TDI - NECPL Project
Overland Component
Grand Isle, Rutland, & Windsor Counties, VT
Natural Resource Map Series

Sheet Number 4 of 51

December 2, 2014

400 200 0 400 Feet

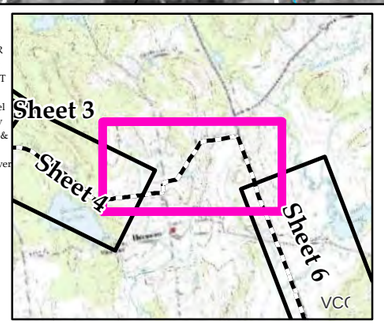
\\VTNFDATA\projects\57666.00 NE Clean Power Link\GIS\Project\NR_Maps\NRMaps_11x17_400scale.mxd exported by:acoplin On 12/2/2014



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)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

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

Sheet Number 5 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

Type = A
State Rank = S2?
State Listed = N
Federal Rank =

Type = A
State Rank = S2
State Listed = Y
Federal Rank =

Type = P
State Rank = S1
State Listed = N
Federal Rank =

Type = P
State Rank = S1
State Listed = Y
Federal Rank =

Type = C
State Rank = S3
State Listed = N/A
Federal Rank =

Type = P
State Rank = S3
State Listed =
Federal Rank =

Type = P
State Rank = S2
State Listed = N
Federal Rank =

Type = A
State Rank = S2B
State Listed = Y
Federal Rank =

MILL POND RD

LAKE RD

Unnamed Trib to Hubbardton River

Unnamed Trib to Hubbardton River

V-BE-W-400

V-BE-W-400

Proposed Project Storage Area

Proposed Project Laydown Yard

BENSON (BE)

Sheet 5

Sheet 7

2014-RTE-EF-1
State Rank: S3

2014-RTE-EF-2
State Rank: S3

V-BE-AS-101(D)

V-BE-S-101(JD)

V-BE-AS-102(I)

V-BE-W-102

V-BE-AW-102

V-BE-S-102(P)

V-BE-W-102

V-BE-AW-102

V-BE-S-103(JD)

V-BE-S-103(JD)

V-BE-AS-103(D)

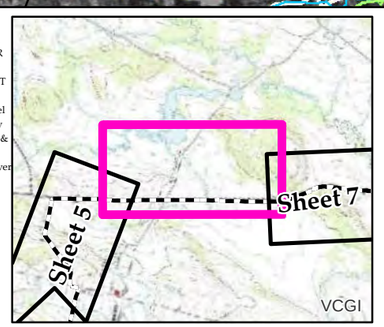
VT 22A

102.5 102.6 102.7 102.8 102.9 103 103.2 103.3 103.5 103.6

300 250 350

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).



NECPL Proposed Overland Alignment (TRC)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

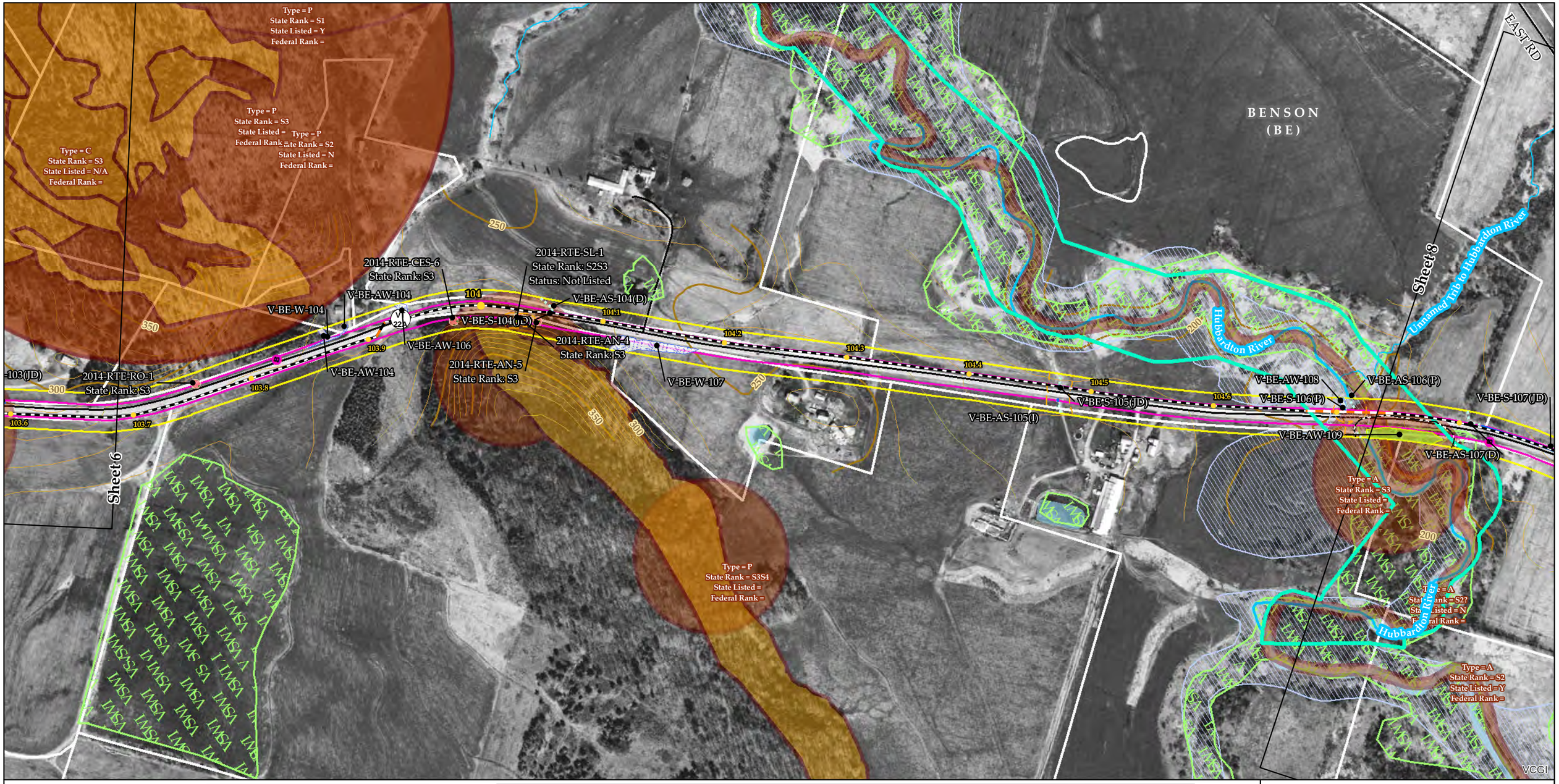
TDI - NECPL Project
Overland Component
Grand Isle, Rutland, & Windsor Counties, VT
Natural Resource Map Series

Sheet Number 6 of 51

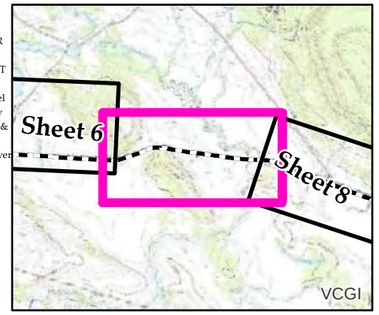
December 2, 2014

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



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).



NECPL Proposed Overland Alignment (TRC)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

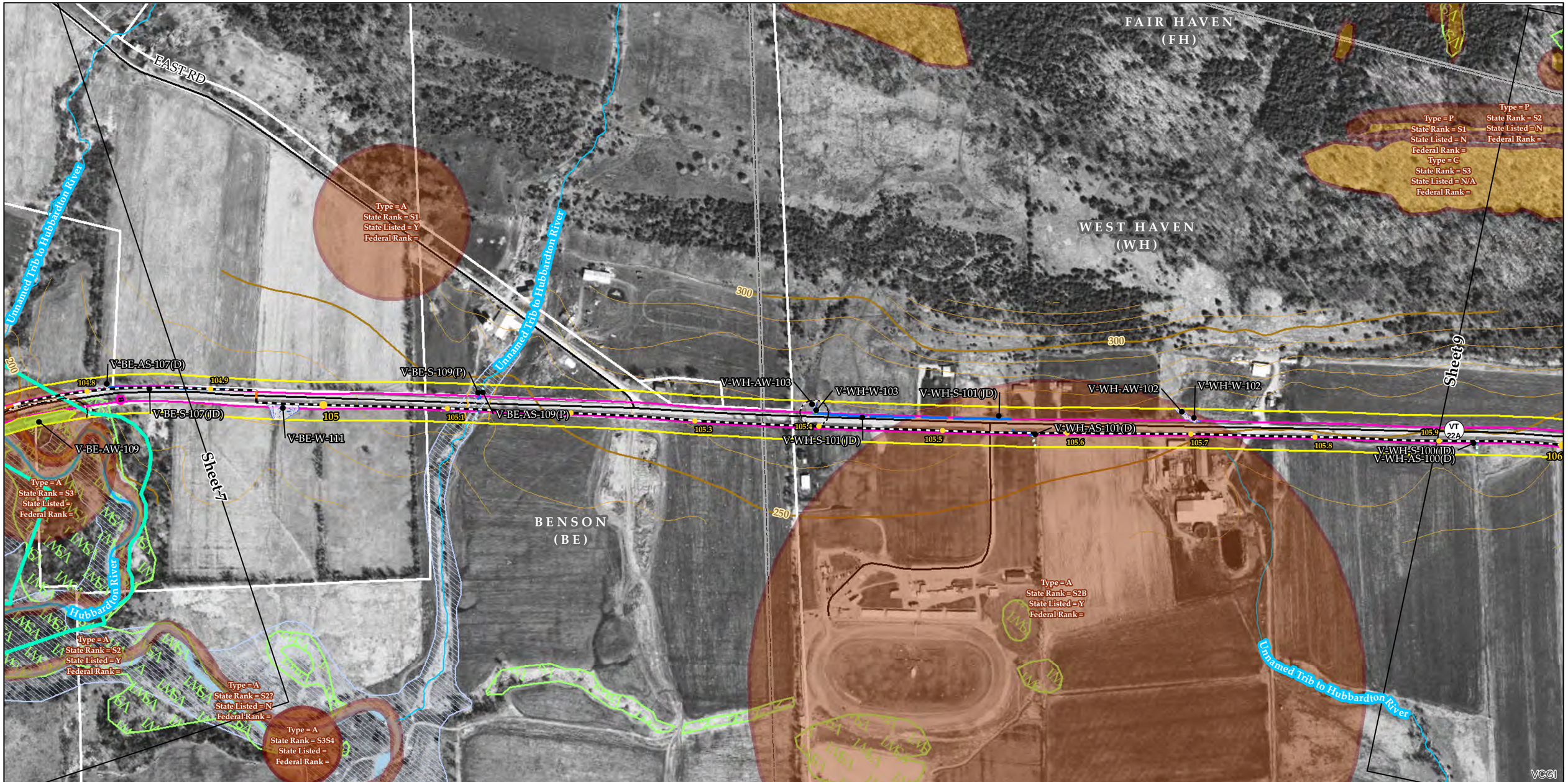
TDI - NECPL Project
Overland Component
Grand Isle, Rutland, & Windsor Counties, VT
Natural Resource Map Series

Sheet Number 7 of 51

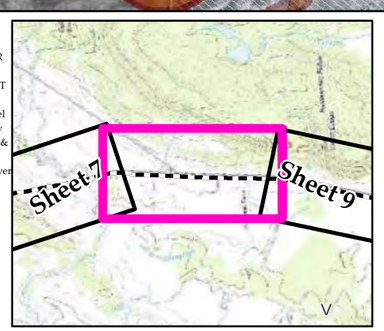
December 2, 2014

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



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).



NECPL Proposed Overland Alignment (TRC)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

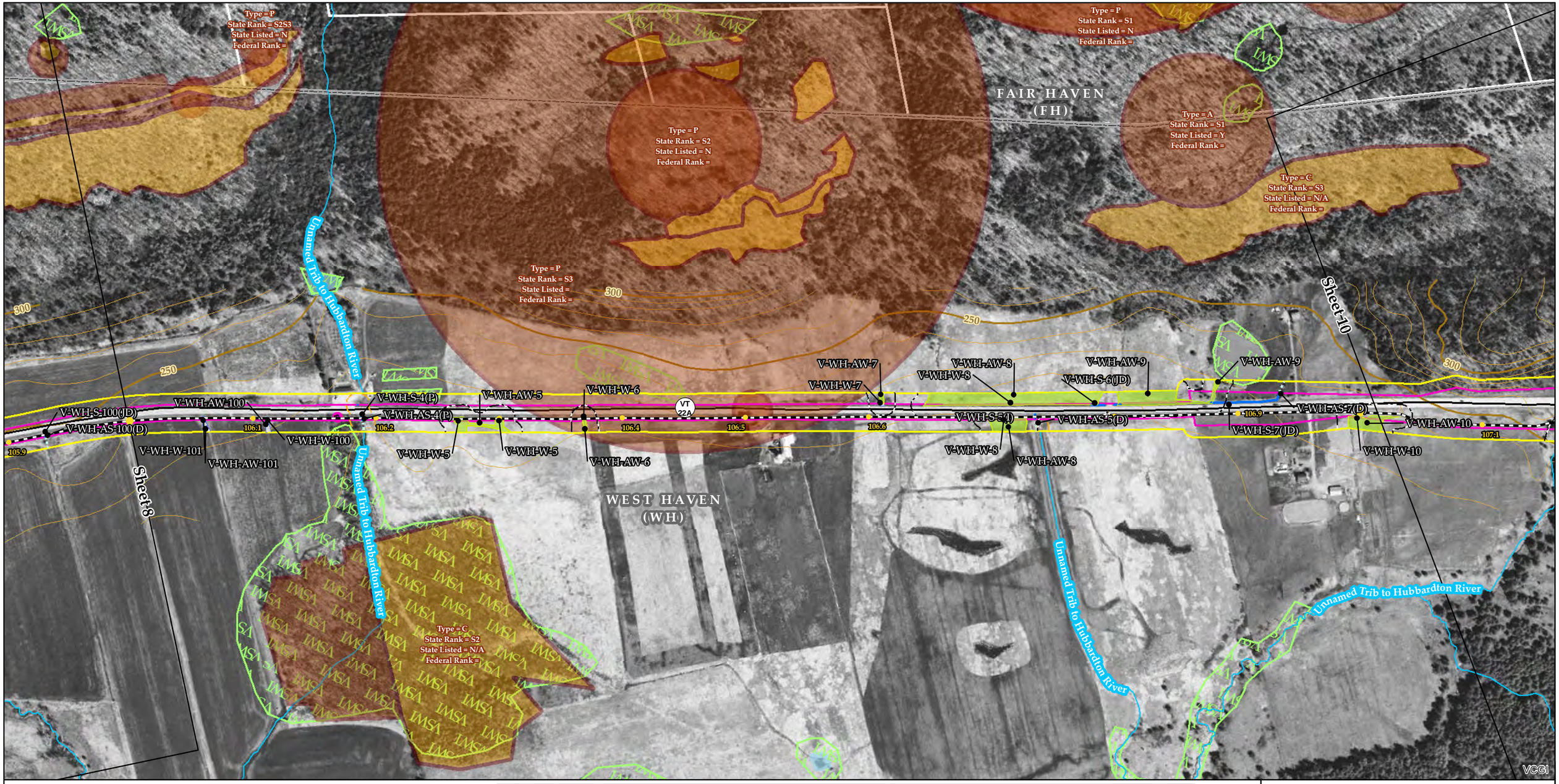
TDI - NECPL Project
Overland Component
Grand Isle, Rutland, & Windsor Counties, VT
Natural Resource Map Series

Sheet Number 8 of 51

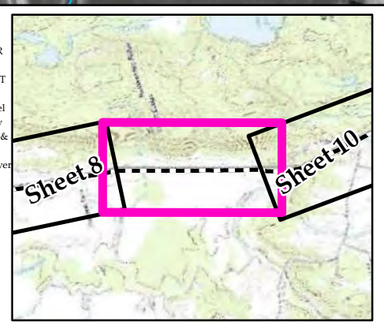
December 2, 2014

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



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).



NECPL Proposed Overland Alignment (TRC)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

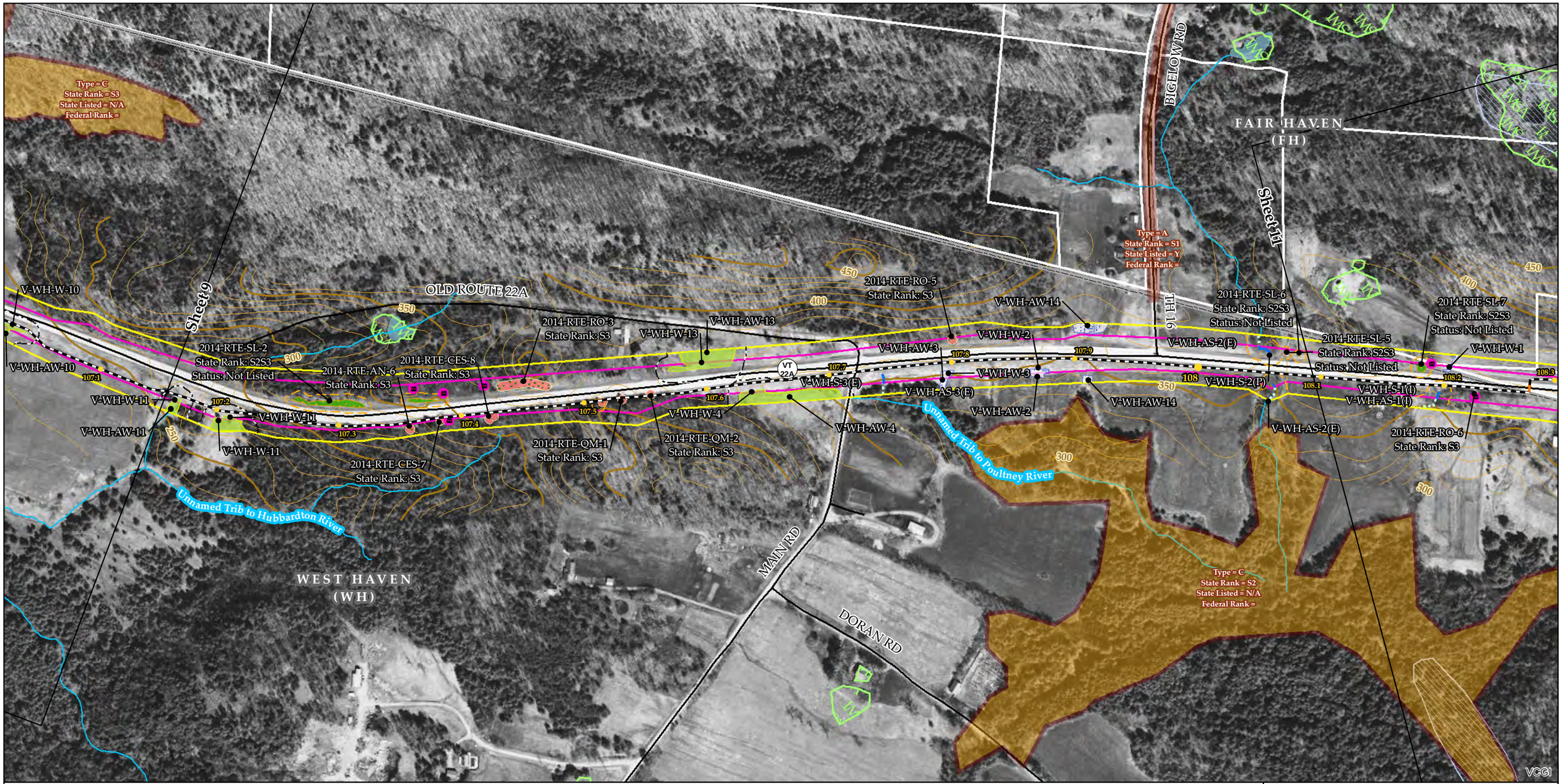
TDI - NECPL Project
Overland Component
Grand Isle, Rutland, & Windsor Counties, VT
Natural Resource Map Series

Sheet Number 9 of 51

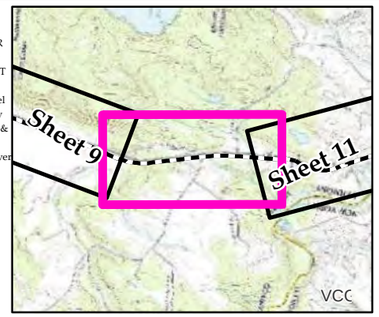
December 2, 2014

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



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).



NECPL Proposed Overland Alignment (TRC)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

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

Sheet Number 10 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

FAIR HAVEN
(FH)

WEST HAVEN
(WH)

SHELDON RD

Unnamed Trib to Poultney River

Sheet 10

Sheet 12

VT 22A

TH 20

2014-RTE-SL-7
State Rank: S2S3
Status: Not Listed

V-WH-W-1

V-WH-S-1(I)

V-WH-AW-1

V-WH-AS-1(I)

2014-RTE-RO-6
State Rank: S3

V-FH-AS-25(P)

V-FH-S-25(P)

V-FH-AW-27

V-FH-W-27

2014-RTE-SL-8
State Rank: S2S3
Status: Not Listed

2014-RTE-HL-1
State Rank: S2
Status: Not Listed

2014-RTE-SL-9
State Rank: S2S3
Status: Not Listed

2014-RTE-HL-2
State Rank: S2
Status: Not Listed

2014-RTE-HL-3
State Rank: S2
Status: Not Listed

2014-RTE-SL-10
State Rank: S2S3
Status: Not Listed

2014-RTE-SL-11
State Rank: S2S3
Status: Not Listed

2014-RTE-AN-7
State Rank: S3

V-FH-W-26

V-FH-AW-26

V-FH-AW-25

V-FH-W-25

V-FH-AS-24(I)

V-FH-S-24(I)

V-FH-AW-24

V-FH-W-24

V-FH-AS-23(I)

V-FH-S-23(I)

V-FH-S-22(E)

V-SH-AS-22(E)

V-FH-W-23

V-FH-AW-23

V-FH-W-22

V-FH-AS-19(D)

V-FH-AS-18(I)

V-FH-S-18(I)

V-FH-W-21

V-FH-AW-21

Type = C
State Rank = S2
State Listed = N/A
Federal Rank =

Type = A
State Rank = S2?
State Listed = N
Federal Rank =

108.1 108.2 108.4 108.5 108.6 108.7 108.8 108.9 109 109.2 109.3 109.4 109.5

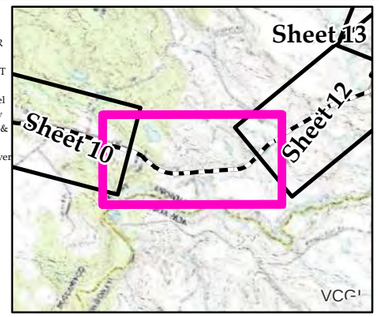
300 350 400 450 800

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)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

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

Sheet Number 11 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

FAIR HAVEN (FH)

SHELDON RD

Sheet 11

Sheet 13

Mud Brook

AIRPORT RD

LEWIS LN

VCGI

V-FH-AS-18(I)
V-FH-AS-19(D)
V-FH-S-18(I)
V-FH-AW-21
V-FH-AW-21
V-FH-AW-20
V-FH-AS-17(P)
V-FH-W-19
V-FH-W-20
V-FH-S-17(P)
V-FH-AW-20
V-FH-W-20
V-FH-AS-17(P)
V-FH-AW-20
2014-RTE-CD-1
State Rank: SH
Status: Not Listed
V-FH-AW-19
2014-RTE-CD-2
State Rank: SH
Status: Not Listed
2014-RTE-CD-3
State Rank: SH
Status: Not Listed
V-FH-AW-18
V-FH-W-15
2014-RTE-SL-12
State Rank: S2S3
Status: Not Listed
V-FH-S-16(E)
V-FH-AW-15
V-FH-W-15
V-FH-AS-16(P)
V-FH-S-13(P)
V-FH-AW-17
V-FH-W-17
V-FH-W-16
V-FH-S-15(JD)
V-FH-AW-16
V-FH-AS-13(P)
V-FH-S-12(JD)
V-FH-W-29
V-FH-AS-3(JD)
V-FH-S-3(JD)
V-FH-W-2
V-FH-AW-1
V-FH-W-1
V-FH-W-12

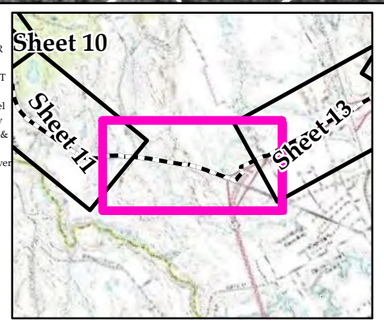
109.3
109.4
109.5
109.6
109.7
109.8
109.9
110.2
110.3
110.4
110.5
400
850

VT 22A
US-4

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)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

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

Sheet Number 12 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

Type = A
State Rank = S1?
State Listed = N
Federal Rank =

FAIR HAVEN (FH)

Unnamed Trib to Mud Brook

SCOTCH HILL EXT

SCOTCH HILL RD

AIRPORT RD

MECHANIC ST

PINE ST

APPLETREE LN

Unnamed Trib to Castleton River

Sheet 12

Sheet 14

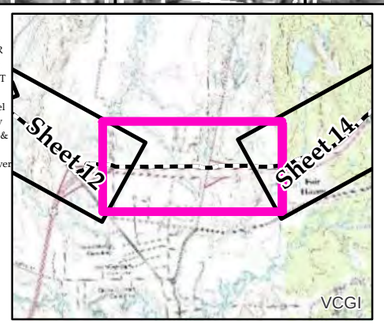
V-FH-AS-3(JD)
V-FH-AS-4(P)
V-FH-W-3
V-FH-AW-5
V-FH-W-4
V-FH-AS-5(P)
V-FH-W-5
V-FH-S-5(P)
V-FH-AW-4
V-FH-W-7
V-FH-AW-8
V-FH-W-8
V-FH-S-26(JD)
V-FH-W-9
V-FH-AW-9
V-FH-AS-6(I)
V-FH-S-6(I)
V-FH-W-13
V-FH-S-4(E)
V-FH-S-5a(E)
2014-RTE-NT-1
State Rank: S3
V-FH-W-6
V-FH-W-3
V-FH-S-3(JD)
V-FH-W-1
V-FH-AW-1
V-FH-W-2
V-FH-AS-4(P)
V-FH-S-4(E)
V-FH-W-3
V-FH-AW-3
V-FH-AW-4
V-FH-W-4
V-FH-S-9(I)
V-FH-W-28
V-FH-AW-28
US-4
500
450
400
110.5
110.6
110.7
110.8
110.9
111
111.1
111.2
111.3
111.4
111.5
111.6
111.7

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)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

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

Sheet Number 13 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

FAIR HAVEN (FH)

CASTLETON (CN)

Sheet 13

Sheet 15

Dry Oak-Hickory-Hophornbeam Forest

Type = C
State Rank = S3
State Listed = N/A
Federal Rank =

Type = P
State Rank = S2S3
State Listed = N
Federal Rank =

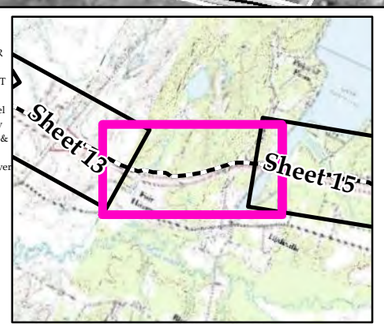
Type = P
State Rank = S1
State Listed = Y
Federal Rank =

V-FH-W-9
V-FH-S-6(I)
V-FH-AW-9
V-FH-W-9
V-FH-W-9
V-FH-AW-9
V-FH-W-10
2014-RTE-PH-1
State Rank: S3
V-FH-W-14
V-FH-W-13
V-FH-W-10
V-FH-S-10(P)
V-FH-AW-10
V-FH-S-11(E)
V-FH-AS-7(E)
V-FH-S-7(E)
2014-RTE-LH-1
State Rank: S1
Status: Threatened
2014-RTE-LV-1
State Rank: S2S3
Status: Not Listed
2014-RTE-LH-2
State Rank: S1
Status: Threatened
2014-RTE-HL-6
State Rank: S2
Status: Not Listed
2014-RTE-CS-1
State Rank: S2
Status: Threatened
2014-RTE-CS-2
State Rank: S2
Status: Not Listed
2014-RTE-HL-7
State Rank: S2
Status: Not Listed
2014-RTE-HL-8
State Rank: S2
Status: Not Listed
V-FH-W-11
2014-RTE-LH-5
State Rank: S1
Status: Threatened
2014-RTE-LH-3
State Rank: S1
Status: Threatened
V-FH-S-8(I)
2014-RTE-LH-4
State Rank: S1
Status: Threatened
V-CN-AW-1a
V-CN-W-1a
V-CN-L-1(L)
V-CN-AL-1(L)
V-CN-W-105
V-CN-L-1 (L)
V-CN-S-100(E)
V-CN-W-101
V-CN-AL-1(L)
V-CN-AW-101
V-FH-S-8(I)
Unnamed Trib to Castleton River
Lake Bomoseen
POINT OF PINES RD
PINE ST
PINE ST LP
CREEK RD
E CREEK DR
TAGGART LN
US-4
VT 4A
111.6
111.7
111.8
111.9
112
112.1
112.2
112.3
112.4
112.5
112.6
112.7
112.8
450
500
550
600

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)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

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

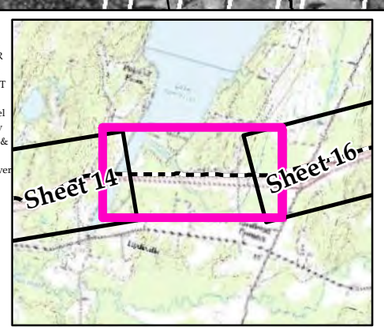
Sheet Number 14 of 51

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

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).



NECPL Proposed Overland Alignment (TRC)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

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

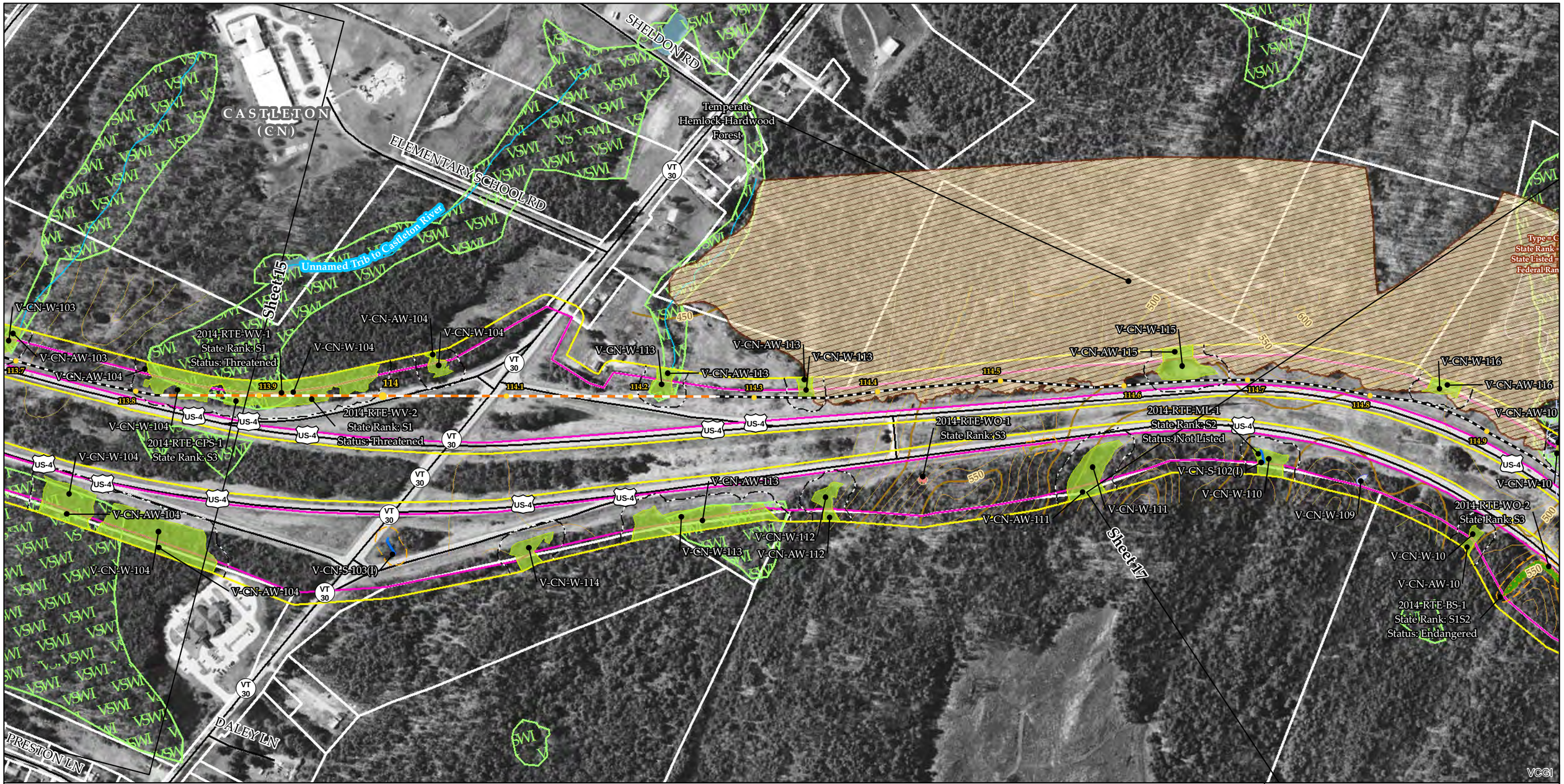
Sheet Number 15 of 51

December 2, 2014

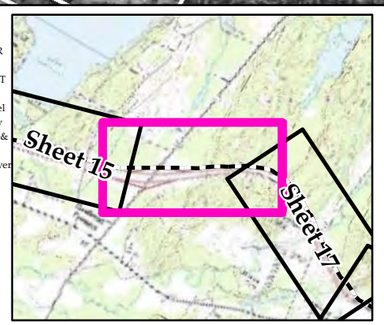
N

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



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).



NECPL Proposed Overland Alignment (TRC)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

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

Sheet Number 16 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

Type = C
State Rank = S4
State Listed = N/A
Federal Rank =

Temperate Hemlock-Hardwood Forest

Temperate Hemlock Forest

CASTLETON (CN)

Unnamed Trib to Castleton River

Sheet 18

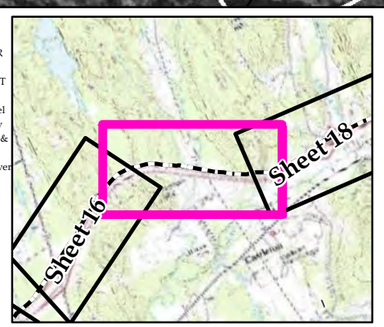
Sheet 16

V-CN-W-11
V-CN-AW-12
V-CN-W-12
V-CN-W-13
V-CN-AS-12(P)
V-CN-AS-12a(E)
V-CN-AW-11
V-CN-AS-11(I)
V-CN-W-10
V-CN-W-10
V-CN-AW-10
US-4
115.1
115.2
115
114.9
114.8
2014-RTE-CO-2
State Rank: S3
2014-RTE-CO-1
State Rank: S3
V-CN-S-12(P)
115.4
V-CN-AW-13
V-CN-S-12a(E)
V-CN-AW-15
115.5
115.6
V-CN-W-15
V-CN-AS-13(I)
115.7
115.8
115.9
V-CN-AW-17
V-CN-W-17
116
V-CN-W-16
V-CN-S-15(E)
V-CN-AW-116
V-CN-W-116
V-CN-AS-1a(I)
2014-RTE-ML-2
State Rank: S2
Status: Not Listed
V-CN-S-11(I)
V-CN-AS-11(I)
V-CN-W-14
V-CN-AW-12
V-CN-W-12
V-CN-W-15
V-CN-AW-15
V-CN-W-21
V-CN-S-13(I)
V-CN-W-20
V-CN-AW-20
V-CN-S-12(P)
V-CN-AW-12
V-CN-W-12
V-CN-AW-12
V-CN-AS-12(P)
V-CN-AW-12
2014-RTE-BS-1
State Rank: S1S2
Status: Endangered
V-CN-AW-10
V-CN-W-109
V-CN-S-102(I)
2014-RTE-ML-1
State Rank: S2
Status: Not Listed
V-CN-W-110
V-CN-AW-111
NORTH RD
2014-RTE-CB-1
State Rank: S3
V-CN-S-14(E)
V-CN-AS-14(E)
V-CN-AW-17
V-CN-W-17
BROWN FARM RD
Unnamed Trib to Castleton River
MILL ST
Castleton River
Sheet 16

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)
- Horizontal Directional Drilling (HDD)
- Jack and Bore
- Terrestrial Cable (Trenching)
- Project Parcel
- Parcel Boundary
- Study Area
- Approximate Study Area
- Sheet Outline

- Proposed Class II Wetland (TRC/VHB)
- Proposed Class III Wetland (TRC/VHB)
- Proposed 50' Class II Wetland Buffer (VHB)
- Approximate Stream (TRC/VHB)
- Delineated Stream (TRC/VHB)
- RTE Plants (AE)
- Natural Resource Buffer (VHB)
- Potential Bat Tree (AE)
- Natural Community (AE)
- Uncommon (S3) Plants (AE)
- Deer Wintering Area (AE)

NHI Element Occurrence (VTFW)
- RTEs
- Significant Natural Community
- Bear Crossing (VTFW)
- Bear Feeding (VTFW)
- Deer Wintering Area (ANR)
- VSWI Wetland (ANR)
- Named VHD Stream (VCGI)
- Unnamed VHD Stream (VCGI)

- Floodway (FEMA)
- 100 year floodplain (FEMA)
- River Corridor (VTDEC)
- Waterbody (VHD)
- Town Boundary (VCGI)
- Country Boundary (VCGI)
- Road (VTrans)
- 50 Ft. Contour
- 10 Ft. Contour

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

Sheet Number 17 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