

TDI-NE - New England Clean Power Link Project (NECPL)
Grand Isle, Rutland and Windsor Counties, VT
Table 3: Section 12 of the Vermont Wetland Permit Application/Determination Petition (Vermont Wetland Rules
Proposed Class II Wetland and Buffer - Impact Analysis)
Prepared by VHB & TRC
March 6, 2015
Revised: July 31, 2015

VHB Impact Exhibit #	Wetland Complex ID ¹	Wetland ID	Mile Post	NR Sheet #	Town	Delineated Area (Sq Ft)	VWR Section 4.6 Presumption(s) ²	VWR Section 5 Function(s) ³	VHB Proposed VWR Classification ⁴	Proposed Class II Wetland Impacts ⁵					Proposed Class II Wetland Buffer Impacts ⁶			Abutter ⁷
										Wetland Fill (Sq Ft)	Temporary Impacts (Sq Ft)	Temporary Clearing Impacts (Sq Ft)	Permanent Clearing Impacts (Sq Ft)	TOTAL IMPACTS (Sq Ft)	Temporary Impacts (Sq Ft)	Permanent Impact (Sq Ft)	TOTAL IMPACTS (Sq Ft)	
1	1	V-BE-W-14	100.6	4	Benson	1480	a	1P, 2H, 3P, 4H	II	0	405	0	0	405	2,169	323	2,492	12.00, 33.00, 38.00, 39.00
2	2	V-BE-W-100	102.1	5	Benson	740	a,c	1P, 2P, 10P	II	0	90	0	0	90	2,918	0	2,918	63.00, 64.00, 84.00
3	4	V-WH-W-5	106.2	9	West Haven	1450	a	1H, 2P	II	0	1,168	0	0	1,168	2,736	0	2,736	84.00
4	5	V-WH-W-6	106.3	9	West Haven	120	a	1H, 2P	II	0	106	0	0	106	1,212	0	1,212	84.00
5, 6, 7	6	V-WH-W-8	106.6	9	West Haven	6360	a	1H, 2P	II	0	1,898	0	0	1,898	3,536	0	3,536	84.00
7, 8	7	V-WH-W-9	106.8	9	West Haven	4790	a	1H, 2P	II	0	0	0	0	0	3,573	0	3,573	84.00
9	8	V-WH-W-10	106.9	9	West Haven	1800	a	1P, 2P	II	0	0	0	0	0	3,879	0	3,879	84.00
10, 11	8	V-WH-W-11	107.1	10	West Haven	1220	a	1P, 2P, 4P	II	0	680	0	0	680	14,945	346	15,291	84.00, 101.00, 102.00
12, 13	9	V-WH-W-4	107.6	10	West Haven	740	a	1P, 2P	II	0	0	0	0	0	3,541	0	3,541	84.00, 105.00
14, 15	10	V-FH-W-21	109.4	11	Fair Haven	8780	a	1H,2H,4P	II	0	654	1,580	947	3,181	12,826	720	13,546	84.00, 121.00, 122.00
16, 17	11	V-FH-W-20	109.6	12	Fair Haven	10700	a, b	1H, 2H, 4P, 10P	II	0	0	0	0	0	10,884	2,267	13,151	84.00, 121.00, 124.00
17, 18	11	V-FH-W-19	109.7	12	Fair Haven	9070	a	1H, 2H, 4P	II	0	0	0	0	0	7,969	0	7,969	84.00, 124.00
19	12	V-FH-AW-18	109.9	12	Fair Haven	2060	a	1P, 2P	II	0	0	0	0	0	1,277	0	1,277	84.00, 124.00
20, 21	13	V-FH-W-15	110.2	12	Fair Haven	10710	a,b	1H,2H,4P,9P,10P	II	0	0	0	0	0	1,708	0	1,708	84.00, 124.00, 127.00, 252.00
22	14	V-FH-W-3	110.8	13	Fair Haven	2170	a	1P, 2P, 3P	II	0	0	0	0	0	2,405	137	2,542	252.00
23	15	V-FH-W-5	110.8	13	Fair Haven	6290	a	1L, 2L	II	0	0	275	0	275	2,746	1,755	4,501	252.00
24, 25	13	V-FH-W-4	111	13	Fair Haven	85510	a	1P, 2P, 4P	II	0	15	1,579	707	2,301	20,756	2,842	23,598	252.00
26	13	V-FH-W-6	111.1	13	Fair Haven	5320	NA	1P, 2L	II	0	1,092	138	0	1,230	2,896	362	3,258	252.00
27, 28	16	V-FH-W-9	111.6	13	Fair Haven	41640	a	1H, 2H, 4H, 9P	II	0	0	0	0	0	2,398	397	2,795	144.00, 252.00
29	17	V-CN-W-106	113	15	Castleton	5080	a	1P, 2P	II	0	0	0	0	0	34	0	34	252.00
30	18	V-CN-W-102	113.1	15	Castleton	10400	a	1P, 2P, 10P	II	0	0	0	0	0	3,838	275	4,113	172.00, 252.00

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										Wetland Fill (Sq Ft)	Temporary Impacts (Sq Ft)	Temporary Clearing Impacts (Sq Ft)	Permanent Clearing Impacts (Sq Ft)	TOTAL IMPACTS (Sq Ft)	Temporary Impacts (Sq Ft)	Permanent Impact (Sq Ft)	TOTAL IMPACTS (Sq Ft)	
31, 32	18	V-CN-W-103	113.6	15	Castleton	25930	a	1P, 2P	II	0	27	733	0	760	4,014	0	4,014	182.00, 252.00
33	18	V-CN-W-104	113.8	15	Castleton	119100	a	1P, 2P, 4P, 6P, 9P	II	0	0	1,007	0	1,007	7,136	1,017	8,153	182.00, 252.00
34	19	V-CN-W-113	114.3	16	Castleton	30220	a	1P, 2P	II	0	155	1,271	28	1,454	3,510	887	4,397	188.00, 252.00
35	20	V-CN-W-115	114.6	16	Castleton	17290	a	1P, 2P	II	0	0	0	0	0	3,875	0	3,875	192.00, 252.00
36	21	V-CN-W-116	114.8	16	Castleton	1580	a	1P, 2P	II	0	0	0	0	0	185	0	185	252.00
37	21	V-CN-W-10	114.9	16	Castleton	6750	a	1H, 2H, 4P	II	0	0	0	0	0	278	0	278	252.00
38	22	V-CN-W-11	115.2	17	Castleton	5940	a	1P, 2P	II	0	0	192	0	192	5,324	87	5,411	252.00
39	22	V-CN-W-12	115.2	17	Castleton	12060	a,b	1H, 2H, 10P	II	0	352	424	0	776	1,849	0	1,849	252.00
40, 41, 42	22	V-CN-W-15	115.6	17	Castleton	21510	a	1P, 2P	II	0	3,136	11,667	397	15,200	24,788	1,351	26,139	201.00, 252.00
43	23	V-CN-W-16	115.9	17	Castleton	1510	a	1L, 2L	II	0	0	0	0	0	1,455	320	1,775	252.00
44, 45	23	V-CN-W-17	116	17	Castleton	44000	a,b	1H, 2H, 4P, 9P, 10P	II	0	0	0	0	0	4,471	338	4,809	204.00, 207.00, 252.00
46, 47	23	V-CN-W-18	116.2	18	Castleton	16470	a,b	1P, 2P, 4P	II	0	0	0	0	0	20,478	0	20,478	207.00, 208.00, 252.00
48, 49	24	V-CN-W-3/6	116.6	18	Castleton	9900	a	1H, 2H	II	0	817	1,428	0	2,245	17,615	0	17,615	252.00
50	25	T-WR-AW-12	121	22	West Rutland	2690	b	1H, 2P, 3P, 4P, 10P	II	0	0	0	0	0	25	0	25	252.00, 261.00
51, 52, 53, 54, 55, 56, 57	26	T-RU-W4	127.1	27	Rutland	223760	g	1H, 2H, 4H, 9P	II	0	737	14,542	3,325	18,604	16,835	4,535	21,370	252.00, 378.00, 379.00, 382.00
58, 59	27	T-CL-W7	129	29	Clarendon	11020	NA	1P, 2P, 4P	II	0	604	896	962	2,462	11,755	648	12,403	388.00, 413.00, 414.00, 416.00
60	28	T-CL-W6	129.2	29	Clarendon	1010	NA	2P	II	0	0	0	0	0	825	0	825	388.00, 417.00
61	29	T-CL-W1	130	30	Clarendon	2550	NA	1L, 2L, 6P	II	0	0	0	0	0	3,748	0	3,748	388.00, 427.00
62	30	T-CL-W15	130.4	30	Clarendon	280	NA	2H, 4P	II	0	0	0	0	0	1,591	0	1,591	469.00
62	30	T-CL-AW-15	130.4	30	Clarendon	8780	NA	2H, 4P	II	0	0	0	0	0	38	0	38	469.00
63	30	T-CL-AW-25	130.5	31	Clarendon	3370	NA	1P, 2H, 4P	II	0	0	0	0	0	3,528	0	3,528	430.00, 469.00
63, 64	31	T-CL-AW-24	130.6	31	Clarendon	8660	NA	1P, 2H, 3P, 4P, 10P	II	0	0	0	0	0	6,933	0	6,933	430.00, 431.00, 469.00

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										Wetland Fill (Sq Ft)	Temporary Impacts (Sq Ft)	Temporary Clearing Impacts (Sq Ft)	Permanent Clearing Impacts (Sq Ft)	TOTAL IMPACTS (Sq Ft)	Temporary Impacts (Sq Ft)	Permanent Impact (Sq Ft)	TOTAL IMPACTS (Sq Ft)	
65, 66	32	T-CL-W17	130.7	31	Clarendon	1950	NA	2H, 4H	II	0	0	0	0	0	9,058	1	9,059	430.00, 431.00, 469.00
67, 68	32	T-CL-W18	130.8	31	Clarendon	910	b	2H, 4H	II	0	0	210	0	210	8,105	4,053	12,158	431.00, 432.00, 433.00, 469.00
67, 68	32	T-CL-AW-18	130.8	31	Clarendon	19410	b	2H, 4H	II	0	0	0	0	0	253	0	253	431.00, 432.00, 433.00, 469.00
69	33	T-CL-W20	131.3	31	Clarendon	2420	NA	4P, 9P	II	0	0	27	0	27	7,200	486	7,686	432.00, 433.00, 469.00
70, 71, 72, 73	34	T-CL-W22	131.6	32	Clarendon	34150	NA	2P, 4H, 9P	II	0	3,394	7,566	284	11,244	15,129	195	15,324	447.00, 448.00, 469.00
74	35	V-SH-W-7	133.9	34	Shrewsbury	1690	a	2P	II	0	104	480	1,108	1,692	3,479	1,626	5,105	469.00, 481.00, 482.00
75, 76	36	V-SH-W-201	134.3	34	Shrewsbury	5410	b	1L, 2P,	II	0	0	37	0	37	5,173	4,140	9,313	491.00, 520.00
77	37	T-SH-AW8	135.8	35	Shrewsbury	4510	b	1P, 2P, 3L, 10P	II	0	0	0	0	0	1,188	1,421	2,609	503.00, 504.00, 520.00
78, 79	38	T-SH-W9	136	35	Shrewsbury	9180	a,b	4P	II	0	414	5,117	3,648	9,179	8,633	3,224	11,857	514.00, 520.00
80	39	T-SH-W10	136.1	36	Shrewsbury	4000	a,b	1L, 2P, 4L	II	0	0	1,951	2,050	4,001	5,074	1,487	6,561	514.00, 520.00
81, 82	40	T-SH-W13	136.7	36	Wallingford	11760	a	1P, 2P, 4P	II	0	6,406	906	4,292	11,604	1,419	677	2,096	517.00, 518.00, 519.00, 520.00
83	41a	T-WA-W3	137	36	Wallingford	6638	a, b	1P, 2P, 4L	II	0	0	878	1,097	1,975	738	1,699	2,437	520.00, 530.00
84, 85	41	T-WA-W4	137.3	37	Wallingford	8620	a, b	1L, 2P, 10P	II	0	0	3,872	4,752	8,624	11,546	2,070	13,616	520.00, 536.00
86	42	T-WA-W9	137.5	37	Wallingford	1270	c	1L, 2P, 10L	II	0	0	863	409	1,272	3,292	768	4,060	520.00, 542.00
86	43	T-WA-W10	137.5	37	Wallingford	1050	NA	2P, 1L	II	0	0	806	247	1,053	3,958	1,009	4,967	520.00, 542.00
87	44	V-WA-AW-106	137.9	37	Wallingford	7160	b	1P, 2H, 10P	II	0	0	0	0	0	2,274	219	2,493	543.00, 546.00
88	45	V-WA-W-105	138	37	Wallingford	10	b	1P, 2P	II	0	0	0	0	0	23	0	23	543.00, 546.00
88, 89	46	V-WA-AW-104	138	37	Wallingford	1740	NA	1L, 2H	II	0	0	0	0	0	1,490	0	1,490	543.00, 545.00
89	46	V-WA-W-102	138.1	37	Wallingford	60	NA	1L, 2P	II	0	64	0	0	64	1,936	111	2,047	543.00, 548.00, 549.00

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										Wetland Fill (Sq Ft)	Temporary Impacts (Sq Ft)	Temporary Clearing Impacts (Sq Ft)	Permanent Clearing Impacts (Sq Ft)	TOTAL IMPACTS (Sq Ft)	Temporary Impacts (Sq Ft)	Permanent Impact (Sq Ft)	TOTAL IMPACTS (Sq Ft)	
89	46	V-WA-AW-102	138.1	37	Wallingford	3470	NA	1L, 2P	II	0	0	0	0	0	19	16	35	543.00, 548.00, 549.00
90, 91, 92	47	V-WA-W-101	138.5	38	Wallingford	2300	b	1P, 2H, 10P	II	0	1,120	231	953	2,304	7,557	4,352	11,909	543.00, 550.00, 555.00, 556.00
93, 94	48	T-MH-W55	138.8	38	Mount Holly	550	b	1P, 2P, 4P	II	0	314	14	222	550	4,383	883	5,266	543.00, 556.00, 565.00, 566.00
93, 94	48	T-MH-AW-55	138.8	38	Mount Holly	22000	b	1P, 2P, 4P	II	0	0	0	0	0	11	0	11	543.00, 558.00, 559.00, 565.00, 566.00
95	49	T-MH-W56	139	38	Mount Holly	540	NA	1L, 2L	II	0	539	0	0	539	1,711	0	1,711	543.00, 569.00
96, 97	50	T-MH-W53 NORTH	139.2	38	Mount Holly	230	NA	1P, 2P, 3P, 4P	II	0	0	17	0	17	7,124	0	7,124	543.00, 569.00, 570.00
98, 99	51	T-MH-W50	139.4	38	Mount Holly	5380	NA	1P, 2P, 3P, 4P	II	0	2,400	1,116	148	3,664	2,551	3	2,554	543.00, 574.00, 575.00
100	52	T-MH-AW-73	139.8	39	Mount Holly	1530	NA	1P, 2P	II	0	0	0	0	0	1,398	0	1,398	543.00, 583.00
101, 102, 103, 104	53	T-MH-W45	140.1	39	Mount Holly	8460	NA	1P, 2L, 4P	II	0	3,859	4,602	0	8,461	10,342	0	10,342	543.00, 597.00, 598.00
105, 106	54	T-MH-W41	140.4	39	Mount Holly	2510	NA	1P, 2P	II	0	242	0	0	242	5,576	0	5,576	543.00, 598.00, 599.00
107, 108	55	T-MH-W38	140.6	39	Mount Holly	1060	NA	1H, 2L, 4P, 6P	II	0	463	0	597	1,060	2,632	925	3,557	543.00, 605.00, 606.00
109	55	T-MH-W37	140.7	39	Mount Holly	440	b	1H, 2P, 3P, 4P	II	0	332	109	0	441	1,415	67	1,482	543.00, 606.00
110, 111	56	T-MH-W33	141.1	40	Mount Holly	950	NA	1L, 2P, 4P	II	0	555	398	0	953	3,649	7	3,656	543.00, 608.00, 609.00
112, 113, 114	57	T-MH-W28	141.6	41	Mount Holly	4740	NA	1H, 2H, 10P	II	0	37	0	0	37	5,458	0	5,458	543.00, 613.00
114, 115	58	T-MH-AW-69	141.6	41	Mount Holly	100	NA	1H, 2H, 3H, 9P, 10P	II	0	0	0	0	0	103	0	103	543.00, 616.00
115, 116	58	T-MH-AW-70	141.7	41	Mount Holly	7850	NA	1L, 2L, 4L	II	0	0	0	0	0	6,160	0	6,160	614.01, 616.00, 621.00
117	58	T-MH-AW-24-South	142.3	41	Mount Holly	9700	b g	1P, 2L, 6H	II	0	0	0	0	0	1,830	0	1,830	543.00, 614.01
118	58	T-MH-W23	142.5	41	Mount Holly	220	NA	1P, 2P	II	0	220	0	0	220	2,534	0	2,534	543.00, 623.00, 628.00, 629.00
118	58	T-MH-AW-23	142.5	41	Mount Holly	12490	NA	1P	II	0	0	0	0	0	23	0	23	543.00, 614.01, 623.00, 628.00, 629.00
119	59	T-MH-W20	142.8	42	Mount Holly	1180	NA	1P, 2L, 6P	II	0	878	159	141	1,178	2,590	230	2,820	543.00, 631.00, 632.00, 633.00
120	60	T-MH-AW-66	143.6	42	Mount Holly	4580	c	1P, 2L, 4L	II	0	0	0	0	0	2,792	0	2,792	543.00, 659.00

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121	61	T-MH-W11	144.4	43	Mount Holly	30	b	1P, 2L	II	0	0	0	0	0	510	0	510	543.00, 677.00
122	62	T-MH-W9	144.6	43	Mount Holly	1060	b	1P, 2P, 4P	II	0	61	564	0	625	13,917	1,973	15,890	543.00, 678.00, 679.00
122, 123	62	T-MH-AW-9	144.6	43	Mount Holly	16370	NA	1P, 2P, 4P	II	0	0	0	0	0	2	64	66	543.00, 678.00, 679.00, 680.00
124	63	T-LU-W13	147.9	46	Ludlow	11140	c	1H, 2L, 3P, 6P	II	0	0	1,046	0	1,046	6,780	283	7,063	543.00, 735.00, 746.00, 748.00

Total Impacts (Sq Ft)	0	33,338	66,701	26,314	126,353	429,537	50,596	480,133
Total Impacts (Acres)	0.00	0.77	1.53	0.60	2.90	9.86	1.16	11.02

VWR Application Fee Calculations	VWR Application Fee (cost/ Sq Ft)	\$0.75	\$0.75	\$0.25	\$0.25		\$0.25	\$0.25
	VWR Application Fee/Impact Type	\$0.00	\$25,003.50	\$16,675.25	\$6,578.50		\$107,384.25	\$12,649.00
	Sub-Total Impact Fee	\$48,257.25					\$120,033.25	
	Administrative Fee	\$120.00						
	Revision Fee	\$100.00						
	Total Application Fee	\$168,510.50						

Note: GIS impact analysis conducted using limits of disturbance created by TRC- Drafted 07/28/2015

¹ Wetland features are listed in order from west to east

² Letters correspond with Section 4.6 Presumptions of Significance in the 2010 Vermont Wetland Rules.

³ Alpha-numeric codes correspond to functions and values designated in the 2010 Vermont Wetland Rules (Section 5 Functional Criteria for Evaluating a Wetland's Significance) and are denoted using the Vermont Wetland Evaluation Form ID as follows: 1 - Water storage for flood water and storm runoff, 2 - Surface and ground water protection, 3 - Fish habitat, 4 - Wildlife habitat, 5 - Exemplary wetland natural community, 6 - Rare, threatened, and endangered species habitat, 7 - Education and research in natural sciences, 8 - Recreational value and economic benefit, 9 - Open space and aesthetics, 10 - Erosion control through binding and stabilizing the soil.

P - Function is Present, L - Provides Function at a Lower Level, H - Provides Function at a Higher Level

⁴ Proposed wetland classifications have been field reviewed (representative areas) by VT DEC wetlands staff.

⁵ Wetland fill impacts are those resulting from direct, permanent placement of fill (none proposed); temporary impacts are those resulting from temporary disturbance of non-forested wetlands in the Permanent Project Corridor or Temporary Workspace; temporary clearing impacts are those resulting from the use of matting in forested and scrub-shrub wetlands in Temporary Workspaces, which will regenerate following construction; permanent clearing impacts are those resulting from permanent conversion of forested wetlands to herbaceous or scrub-shrub wetlands in the Permanent Project Corridor following restoration of temporary disturbance from construction.

⁶ Wetland buffer permanent impacts are those resulting from permanent clearing in forested buffer zones in the Permanent Project Corridor, which will result in conversion of forested wetland buffers to non-forested areas following construction; buffer temporary impacts are those resulting from temporary disturbance of non-forested wetland buffer zones in the Permanent Project Corridor, temporary clearing in forested buffer zones in the Temporary Workspace and/or site-specific temporary grading or earth disturbance in forested and non-forested buffer zones in the Temporary Workspace, which will regenerate following construction.

⁷ Abutter information corresponds with Line List Numbers. See Adjoining Property Owners table in Attachment 7 of the VWP application.