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	Communities Traversed by the Under	Table 2-1 ground Transmission Cable Co.	nstruction Zono	
Туре	City/Town/Village	County County	MP Range	Length (miles)
Dresden to Whitehall (county	ini Kunge	Longin (nincs)
Terrestrial	Dresden	Washington	101.3-109.9	8.6
Terrestrial	Whitehall	Washington	109.9-110.1	0.2
Terrestrial	Whitehall Village	Washington	110.1-112.1	2.0
Whitehall to Cementor				210
Terrestrial	Whitehall Village	Washington	112.1-113.1	1.0
Terrestrial	Whitehall	Washington	113.1-117.8	4.7
Terrestrial	Fort Ann	Washington	117.8-123.0	5.8
Terrestrial	Fort Ann Village	Washington	123.0-123.9	0.9
Terrestrial	Hartford	Washington	123.9-124.4	0.5
Terrestrial	Kingsbury	Washington	124.4-132.4	8.0
Terrestrial	Fort Edward	Washington	132.4-133.8	1.4
Terrestrial	Fort Edward Village	Washington	133.8-135.3	1.5
Terrestrial	Moreau	Saratoga	135.3-139.6	4.4
Terrestrial	Northumberland	Saratoga	139.6-143.2	3.6
Terrestrial	Wilton	Saratoga	143.2-150.0	6.9
Terrestrial	Greenfield	Saratoga	150.0-151.9	1.9
Terrestrial	Saratoga Springs	Saratoga	151.9-157.5	5.6
Terrestrial	Milton	Saratoga	157.5-158.9	1.4
Terrestrial	Ballston	Saratoga	158.9-165.9	7.0
Terrestrial	Clifton Park	Saratoga	165.9-168.2	2.3
Terrestrial	Glenville	Schenectady	168.2-171.7	3.5
Terrestrial	Schenectady	Schenectady	171.7-175.8	4.1
Terrestrial	Rotterdam	Schenectady	175.8-180.5	4.7
Terrestrial	Guilderland	Albany	180.5-187.5	6.9
Terrestrial	Voorheesville Village	Albany	187.5-189.2	1.8
Terrestrial	New Scotland	Albany	189.2-193.8	4.6
Terrestrial	Bethlehem	Albany	193.8-199.6	5.9
Terrestrial	Coeymans	Albany	199.6-202.6	3.0
Terrestrial	Ravena Village (Coeymans)	Albany	202.6-203.9	1.2
Terrestrial	New Baltimore	Greene	203.9-210.2	6.0
Terrestrial	Coxsackie Village	Greene	203.9-210.2	1.1
Terrestrial	Coxsackie	Greene	212.2-215.3	4.1
Terrestrial	Athens	Greene	215.3-219.6	4.1
Terresulai	Auteris	Greene	219.6-221.0 and	4.3
Terrestrial	Catskill	Greene	219.0-221.0 and 222.6-228.4	7.3
Terrestrial	Catskill Village	Greene	221.0-222.6	1.6
Haverstraw Bay Bypas	¥	Oreche	221.0-222.0	1.0
Terrestrial	Stony Point	Rockland	295.4-297.7	2.3
Terrestrial	Haverstraw	Rockland	297.7-298.0	0.3
Terrestrial	West Haverstraw Village (Haverstraw)	Rockland	298.0-298.6	0.6
Terrestrial	Haverstraw Village (Haverstraw)	Rockland	298.6-301.4	2.8
Terrestrial	Clarkstown	Rockland	301.4-302.8	1.4
Hell Gate Bypass Rout		Nooniana	001.4-002.0	1.4
Terrestrial	New York City (Manhattan)	New York	330.2-330.3	0.04
Terrestrial	New York City (Manhattan)	New York	330.3-331.4	1.1
	New York City (Bronx) New York City (Queens)			
Terrestrial	• • •	New York	331.4-331.9	0.5
Luyster Creek Convert Terrestrial	New York City (Queens)	New York	- 1	N/A

	Table 2.1-1		
	nities Traversed by the Underground Transmissio	· · ·	
Туре	City/Town/Village	County	Length (miles)
Dresden to Whitehall	(Route 22)		
Terrestrial	Dresden	Washington	8.4
Terrestrial	Whitehall	Washington	0.2
Terrestrial	Whitehall Village (White Hall)	Washington	1.9
Selkirk to Cementon			
Terrestrial	Bethlehem	Albany	0.5
Terrestrial	Coeymans	Albany	3.3
Terrestrial	Ravena Village (Coeymans)	Albany	1.3
Terrestrial	New Baltimore	Greene	6.0
Terrestrial	Coxsackie	Greene	4.1
Terrestrial	Coxsackie Village (Coxsackie)	Greene	1.1
Terrestrial	Athens	Greene	4.2
Terrestrial	Catskill	Rockland	6.4
Terrestrial	Catskill Village (Catskill)	Rockland	1.5
Haverstraw Bay Bypa	ass Route	-	<u>.</u>
Terrestrial	Stony Point	Rockland	2.2
Terrestrial	Haverstraw	Rockland	0.2
Terrestrial	West Haverstraw Village (Haverstraw)	Rockland	0.6
Terrestrial	Haverstraw Village (Haverstraw)	Rockland	0.6
Terrestrial	Clarkstown	Rockland	0.9
Hell Gate Bypass Rou	ute	-	<u>.</u>
Terrestrial	New York City (Manhatten)	New York	0.04
Terrestrial	New York City (Bronx)	New York	1.1
Terrestrial	New York City (Queens)	New York	0.5
Astoria to Rainey Rou	ute		
Terrestrial	New York City (Queens)	New York	3.0

	Table 2.1-2					
Percentage of Land Use Class within the Study Are	Percentage of Land Use Class within the Study Area Along the Underground Transmission Corridor (Reconfigured					
	Segments)					
Land Use Class	Percent of Total Land Use					
Land Us	e in Total Study Area*					
Commercial/Industrial/Transportation	22.1%					
Residential	10.8%					
Forested	33.9%					
Agriculture	4.8%					
Open Land/Pasture/Hay/Scrub/Shrub	21.5%					
Open Water	5.3%					
Parks/Open Space/Recreation	1.6%					
Total: 100%						
*Study area includes 600 feet on both sides of transmissio	n route.					

Daraa	ntage of Land Llas Class within the Study	Aroo Along th	Table 2.1		Sagmanta (Du C	mmunitu) (Dece	onfigured Cogmo	anto)
County	ntage of Land Use Class within the Study Municipality	C/I/T	R R	F	A	Official OL	Onligured Segme OW	P/O/R
Dresden to Wh	nitehall (Route 22)			•		4	•	
Washington	Dresden	7.6%	6.1%	71.2%	5.4%	7.5%	2.1%	0.1%
Washington	Whitehall	5.2%	0.0%	0.0%	0.7%	2.2%	92.0%	0.0%
Washington	Whitehall Village (Whitehall)	15.2%	14.5%	34.7%	22.8%	10.7%	1.9%	0.1%
Selkirk to Cem	nenton			•	•	•	•	
Albany	Bethlehem	17.7%	20.0%	49.9%	0.0%	12.3%	0.0%	0.0%
Albany	Coeymans	23.3%	11.5%	39.9%	0.0%	24.7%	0.7%	0.0%
Albany	Ravena (Coeymans)	18.7%	49.0%	5.2%	0.0%	19.5%	0.0%	7.6%
Greene	New Baltimore	6.1%	4.4%	42.4%	8.2%	38.3%	0.5%	0.0%
Greene	Coxsackie	16.1%	1.7%	13.0%	10.0%	58.9%	0.2%	0.0%
Greene	Coxsackie Village (Coxsackie)	20.3%	32.2%	10.3%	0.0%	36.7%	0.0%	0.5%
Greene	Athens	11.0%	0.0%	19.0%	5.6%	63.7%	0.7%	0.0%
Greene	Catskill	19.2%	1.4%	12.0%	7.3%	58.9%	1.3%	0.0%
Greene	Catskill Village (Catskill)	50.4%	11.5%	5.7%	0.0%	25.2%	3.6%	3.5%
Haverstraw Ba	y Bypass Route			•	•	•	•	•
Rockland	Stony Point	25.7%	20.8%	13.8%	0.0%	21.8%	17.9%	0.0%
Rockland	Haverstraw	11.9%	1.1%	11.9%	0.0%	37.4%	37.7%	0.0%
Rockland	West Haverstraw Village (Haverstraw)	37.6%	46.1%	2.8%	0.0%	12.5%	1.0%	0.0%
Rockland	Haverstraw Village (Haverstraw)	33.7%	32.7%	27.0%	0.0%	5.3%	0.3%	0.9%
Rockland	Clarkstown	0.1%	0.0%	49.0%	0.0%	3.1%	47.7%	0.0%
Hell Gate Bypa	ass Route					-	•	-
New York	New York City (Bronx)	73.6%	0.0%	0.0%	0.0%	13.3%	12.4%	0.7%
New York	New York City (Manhattan)	13.1%	0.0%	0.0%	0.0%	0.2%	51.7%	35.0%
New York	New York City (Queens)	45.4%	0.0%	0.0%	0.0%	0.0%	54.62%	0.0%
Astoria to Rair	ney Route			-	-	-		-
New York	New York City (Queens)	53.9%	36.5%	1.5%	0.0%	0.9%	2.2%	5.0%
R = Residentia F = Forest A = Agriculture	d/Pasture/Hay/Scrub/Shrub							

	Agricultural Districts Alon		ole 2.1-4 ansmission Cabl	e Corridor (Reconfigure	ed Segments)	
County	Municipality	District Code	District	Created	Certified	Area (acres)
Dresden to V	Vhitehall (Route 22)					
		No Agricultural Dis	stricts within Study	r Area		
Selkirk to Ce	menton					
	Coxsackie	GR124	1	6/18/1980	8/2/2004	202.62
Greene	Catskill	GR124	1	6/18/1980	8/2/2004	91.19
Greene	Athens	GR124	1	6/18/1980	8/2/2004	80.56
	New Baltimore	GR124	1	6/18/1980	8/2/2004	1.08
Selkirk to Ce	menton Total					375.4
Haverstraw B	Bay Bypass Route					
		No Agricultural Dis	stricts within Study	Area		
Hell Gate By	pass Route	•				
		No Agricultural Dis	stricts within Study	Area		
Astoria to Ra	ainey Route	•				
	-	No Agricultural Dis	stricts within Study	Area		

County	Percentage of Land Use Municipality	C/I/T	R	F	A	OL	OW	P/O/R
Dresden to Whiteh				•				TOR
Washington	Dresden	7.55%	5.99%	70.68%	5.22%	7.51%	2.93%	0.12%
Washington	Whitehall	14.41%	13.33%	31.90%	21.00%	10.05%	9.23%	0.08%
Whitehall to Ceme		11.1170	10.0070	01.0070	21.0070	10.0070	0.2070	0.0070
Albany	Bethlehem	47.25%	4.26%	17.47%	0.30%	30.72%	0.00%	0.00%
Albany	Coeymans	21.76%	23.90%	28.50%	0.00%	22.88%	0.44%	2.52%
Albany	Guilderland	17.97%	6.88%	51.25%	3.26%	18.97%	1.67%	0.00%
Albany	New Baltimore	14.64%	0.00%	31.42%	0.00%	53.94%	0.00%	0.00%
Albany	New Scotland	15.60%	22.75%	35.55%	5.63%	19.18%	0.09%	1.20%
Albany	Rotterdam	3.15%	67.03%	23.44%	0.00%	0.00%	6.38%	0.00%
Greene	Athens	10.98%	0.00%	19.01%	5.61%	63.70%	0.70%	0.00%
Greene	Catskill	23.48%	3.03%	11.25%	5.35%	52.59%	3.69%	0.61%
Greene	Coxsackie	17.02%	8.03%	12.40%	7.96%	54.29%	0.20%	0.11%
Greene	New Baltimore	6.12%	4.44%	42.41%	8.23%	38.28%	0.53%	0.00%
Saratoga	Ballston	11.46%	7.87%	70.33%	0.31%	9.98%	0.06%	0.00%
Saratoga	Clifton Park	9.76%	4.99%	70.67%	0.00%	13.68%	0.89%	0.00%
Saratoga	Greenfield	9.74%	13.10%	44.73%	0.00%	28.84%	0.23%	3.36%
Saratoga	Malta	2.45%	42.40%	55.15%	0.00%	0.00%	0.00%	0.00%
Saratoga	Milton	11.90%	19.46%	57.99%	0.00%	3.03%	0.00%	7.61%
Saratoga	Moreau	6.59%	7.10%	35.08%	11.60%	36.03%	3.60%	0.00%
Saratoga	Northumberland	9.90%	13.16%	53.33%	7.55%	15.79%	0.00%	0.27%
Saratoga	Saratoga Springs	17.15%	10.97%	52.92%	0.24%	18.58%	0.14%	0.00%
Saratoga	Wilton	10.71%	16.63%	47.62%	13.85%	9.74%	0.79%	0.65%
Schenectady	Clifton Park	6.68%	0.00%	89.69%	0.00%	3.64%	0.00%	0.00%
Schenectady	Glenville	12.09%	4.44%	56.17%	0.54%	25.51%	1.26%	0.00%
Schenectady	Rotterdam	41.60%	9.56%	35.90%	0.19%	12.15%	0.60%	0.00%
Schenectady	Schenectady	57.76%	6.09%	21.20%	0.00%	8.72%	1.31%	4.92%
Washington	Fort Ann	13.06%	7.90%	51.94%	1.66%	9.23%	14.72%	1.50%
Washington	Fort Edward	39.70%	12.39%	9.79%	24.29%	8.23%	3.01%	2.60%
Washington	Hartford	0.00%	0.00%	25.34%	49.06%	3.43%	17.07%	5.10%
Washington	Kingsbury	7.19%	2.59%	23.27%	17.86%	39.81%	9.28%	0.00%
Washington	Moreau	6.63%	0.00%	1.43%	0.00%	0.00%	91.94%	0.00%
Washington	Whitehall	12.51%	5.53%	32.81%	3.21%	34.56%	11.08%	0.33%
laverstraw Bay By								
Rockland	Stony Point	24.42%	19.78%	13.07%	0.00%	20.53%	22.19%	0.00%
Rockland	Haverstraw	32.90%	33.09%	21.56%	0.00%	8.96%	2.81%	0.68%
Rockland	Clarkstown	16.82%	6.75%	58.64%	0.00%	6.89%	10.90%	0.00%
Hell Gate Bypass F								
Bronx	Bronx	77.07%	0.00%	0.00%	0.00%	11.41%	10.78%	0.73%
Bronx	Manhattan	31.61%	0.00%	0.00%	0.00%	39.71%	28.68%	0.00%
Bronx	Queens	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%
New York	Bronx	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%
New York	Manhattan	13.23%	0.00%	0.00%	0.00%	0.19%	51.14%	35.44%
New York	Queens	0.88%	0.00%	0.00%	0.00%	0.00%	99.12%	0.00%
Queens	Manhattan	95.85%	0.00%	0.00%	0.00%	0.00%	4.15%	0.00%
Queens	Queens	33.70%	0.00%	0.00%	0.00%	0.00%	66.30%	0.00%
uyster Creek Con								
Queens	Queens	67.61%	8.15%	2.11%	0.00%	0.80%	18.02%	3.31%
Notes:				,•				5.0.70
	Industrial/Transportation							
R = Residential								
= Forest								
= Agriculture								

OL = Open Land/Pasture/Hay/Scrub/Sh OW = Open Water P/O/R = Parks/Open Space/Recreation

Table 2-2B					
Total Percentage of Land Use Class within the Study Area Along the Underground					
Transmission Cable Construction	Zone and Aboveground Facilities				
Land Use Class	Percent of Total Land Use				
Land Use in Tot	al Study Area*				
Commercial/Industrial/Transportation	21.1%				
Residential	10.2%				
Forest	35.1%				
Agriculture	5.0%				
Open Land/Pasture/Hay/Scrub/Shrub	22.2%				
Open Water	5.3%				
Parks/Open Space/Recreation	1.1%				
Total: 100%					
*Study area includes 600 feet on both sides of transmission route and 0.5 mile radius					
surrounding the aboveground facilities.					

	Agricultural Dist	ricts within 200 fee	Table 2-3 t of the Underground Transm	nission Cable Construction	Zone	
County	District Code	District	Created	Certified	Length (feet)	Length (miles)
Dresden to Whitehal	I (Route 22)					
		No Agr	cultural Districts within Study A	Area		
Vhitehall to Cement						
	WASH001	1	3/1/1976	9/11/2001	16745	3.17
Washington	WASH007	7	5/26/1974	8/14/2007	1991	0.38
Washington	WASH007	7	5/26/1974	8/14/2007	20541	3.89
	WASH006	6	3/16/1981	8/14/2007	7411	1.40
	SARA001	1	2/17/1973	8/5/2005	38811	7.35
Saratoga	SARA002	2	11/17/1974	3/8/1999	7279	1.38
	SARA002	2	11/17/1974	3/8/1999	1553	0.29
Schenectady	SCHE001	1	2/28/1988	3/16/2005	407	0.08
Scheneciauy	SCHE001	1	2/28/1988	3/16/2005	250	0.05
	ALBA003	3	2/22/1977	7/23/2003	5	0.00
	ALBA003	3	2/22/1977	7/23/2003	1801	0.34
	ALBA003	3	2/22/1977	7/23/2003	874	0.17
	ALBA003	3	2/22/1977	7/23/2003	420	0.08
	ALBA003	3	2/22/1977	7/23/2003	1733	0.33
	ALBA003	3	2/22/1977	7/23/2003	1722	0.33
Albany	ALBA003	3	2/22/1977	7/23/2003	3639	0.69
	ALBA003	3	2/22/1977	7/23/2003	2651	0.50
	ALBA003	3	2/22/1977	7/23/2003	2000	0.38
	ALBA003	3	2/22/1977	7/23/2003	642	0.12
	ALBA003	3	2/22/1977	7/23/2003	1229	0.23
	ALBA003	3	2/22/1977	7/23/2003	3400	0.64
	ALBA003	3	2/22/1977	7/23/2003	443	0.08
	GR124	1	6/18/1980	8/2/2004	1983	0.38
	GR124	1	6/18/1980	8/2/2004	2433	0.46
	GR124	1	6/18/1980	8/2/2004	3130	0.59
0	GR124	1	6/18/1980	8/2/2004	445	0.08
Greene	GR124	1	6/18/1980	8/2/2004	970	0.18
	GR124	1	6/18/1980	8/2/2004	2877	0.54
	GR124	1	6/18/1980	8/2/2004	7742	1.47
	GR124	1	6/18/1980	8/2/2004	2913	0.55
	ı			enton (Railroad) Subtotal:	138,040	26.19
averstraw Bay Byp	ass Route					
		No Agr	cultural Districts within Study A	Area		
ell Gate Bypass Ro	oute					
		No Agr	cultural Districts within Study A	Area		
uyster Creek Conve	erter Station					
		No Agr	cultural Districts within Study A	Area		

Darko/Dublia Lando u	Table 2.3-1	his Corridor (Decentinued Segmente)
Park/Public Lands w	ithin 600 feet of the Underground Transmission Ca Community	Approximate Distance from Centerline (feet)
STATE PARKS/PUBLIC LAND		
Dresden to Whitehall (Route 22)		
Adirondack Park	Dresden	0
Selkirk to Cementon		
	No State-Maintained Parks/Public Land Areas with	in Study Area
Haverstraw Bay Bypass Route		· ·
Haverstraw Beach State Park	Haverstraw	0
Hook Mountain State Park	Clarkstown	0
Hell Gate Bypass Route		
	No State-Maintained Parks/Public Land Areas with	nin Study Area
TOWN AND COUNTY PARKS/PUBLIC LAI	ND	
Dresden to Whitehall (Route 22)		
Riverside Park	Whitehall	275
Unnamed	Whitehall	25
Selkirk to Cementon		
Mosher Park	Ravena	20
Haverstraw Bay Bypass Route		
	al or County Parks, Recreational Areas, or Open Space	e Areas within Study Area
Hell Gate Bypass Route		
Randall's Island	Manhattan, New York City	103
Pulaski Park	Bronx, New York City	555
Astoria to Rainey Route		
Hallets Cove Playground	Astoria, Queens, New York City	592
Hoyt Playground	Astoria, Queens, New York City	0
Rainey Park	Astoria, Queens, New York City	514
Ravenswood Playground	Astoria, Queens, New York City	482
Socrates Sculpture Park	Astoria, Queens, New York City	420
Two Coves Community Garden	Astoria, Queens, New York City	220
Van Alst Playground	Astoria, Queens, New York City	431

	Table 2-4		
Parks/Public Lands within 600 fee	et of the Underground Transmission Cable	Construction Zone	
Park/Public Land	Community	MP	Approximate Distance from Centerline (feet)
STATE PARKS/PUBLIC LAND	· · ·		•
Dresden to Whitehall (Route 22)			
Adirondack Park	Dresden	101.3	0
Whitehall to Cementon (Railroad)			
Wilton Wildlife Preserve and Park	Wilton	144.2	0
Saratoga Spa State Park	Saratoga Springs	155.4	0
Saratoga Nursery	Saratoga Springs	155.4	25
Five Rivers Environmental Education Center	New Scotland	191.8	0
Haverstraw Bay Bypass Route	-		
Haverstraw Beach State Park	Haverstraw	300.8	0
Hook Mountain State Park	Clarkstown	301.2	0
Hell Gate Bypass Route	•		
No State-Maintai	ned Parks/Public Land Areas within Study Are	ea	
Luyster Creek Converter Station			
	ned Parks/Public Land Areas within Study Are	ea	
	•		
TOWN AND COUNTY PARKS/PUBLIC LAND			
TOWN AND COUNTY PARKS/PUBLIC LAND Dresden to Whitehall (Route 22)			
	Whitehall	111.9	0
Dresden to Whitehall (Route 22)	Whitehall Whitehall	111.9 112.2	0 170
Dresden to Whitehall (Route 22) Unnamed			÷
Dresden to Whitehall (Route 22) Unnamed Riverside Park			÷
Dresden to Whitehall (Route 22) Unnamed Riverside Park Whitehall to Cementon (Railroad) Bertha E. Smith Park Gansevoort Town Park	Whitehall	112.2	170
Dresden to Whitehall (Route 22) Unnamed Riverside Park Whitehall to Cementon (Railroad) Bertha E. Smith Park Gansevoort Town Park	Whitehall Northumberland	112.2	170
Dresden to Whitehall (Route 22) Unnamed Riverside Park Whitehall to Cementon (Railroad) Bertha E. Smith Park Gansevoort Town Park Saratoga County Forest Land (Fire Pond Tract)	Whitehall Northumberland Northumberland	112.2 141.0 141.0	170 160 55
Dresden to Whitehall (Route 22) Unnamed Riverside Park Whitehall to Cementon (Railroad) Bertha E. Smith Park Gansevoort Town Park	Whitehall Northumberland Northumberland Northumberland	112.2 141.0 141.0 142.6	170 160 55 480
Dresden to Whitehall (Route 22) Unnamed Riverside Park Whitehall to Cementon (Railroad) Bertha E. Smith Park Gansevoort Town Park Saratoga County Forest Land (Fire Pond Tract) Saratoga County Forest Land (Adj. to Wilton Mall)	Whitehall Northumberland Northumberland Northumberland Wilton	112.2 141.0 141.0 142.6 145.9	170 160 55 480 580
Dresden to Whitehall (Route 22) Unnamed Riverside Park Whitehall to Cementon (Railroad) Bertha E. Smith Park Gansevoort Town Park Saratoga County Forest Land (Fire Pond Tract) Saratoga County Forest Land (Adj. to Wilton Mall) Gavin Park Hillhurst Park	Whitehall Northumberland Northumberland Northumberland Wilton Wilton	112.2 141.0 141.0 142.6 145.9 148.6	170 160 55 480 580 75
Dresden to Whitehall (Route 22) Unnamed Riverside Park Whitehall to Cementon (Railroad) Bertha E. Smith Park Gansevoort Town Park Saratoga County Forest Land (Fire Pond Tract) Saratoga County Forest Land (Adj. to Wilton Mall) Gavin Park	Whitehall Northumberland Northumberland Northumberland Wilton Wilton Schenectady	112.2 141.0 141.0 142.6 145.9 148.6 174.7	170 160 55 480 580 75 90
Dresden to Whitehall (Route 22) Unnamed Riverside Park Whitehall to Cementon (Railroad) Bertha E. Smith Park Gansevoort Town Park Saratoga County Forest Land (Fire Pond Tract) Saratoga County Forest Land (Adj. to Wilton Mall) Gavin Park Hillhurst Park Roger Keenholts Park	Whitehall Northumberland Northumberland Northumberland Wilton Wilton Schenectady Guilderland	112.2 141.0 141.0 142.6 145.9 148.6 174.7 184.1	170 160 55 480 580 75 90 155
Dresden to Whitehall (Route 22) Unnamed Riverside Park Whitehall to Cementon (Railroad) Bertha E. Smith Park Gansevoort Town Park Saratoga County Forest Land (Fire Pond Tract) Saratoga County Forest Land (Adj. to Wilton Mall) Gavin Park Hillhurst Park Roger Keenholts Park Jim Nichols Oark	Whitehall Northumberland Northumberland Northumberland Wilton Wilton Schenectady Guilderland New Scotland	112.2 141.0 141.0 142.6 145.9 148.6 174.7 184.1 188.4	170 160 55 480 580 75 90 155 50
Dresden to Whitehall (Route 22) Unnamed Riverside Park Whitehall to Cementon (Railroad) Bertha E. Smith Park Gansevoort Town Park Saratoga County Forest Land (Fire Pond Tract) Saratoga County Forest Land (Adj. to Wilton Mall) Gavin Park Hillhurst Park Roger Keenholts Park Jim Nichols Oark Mosher Park Haverstraw Bay Bypass Route	Whitehall Northumberland Northumberland Northumberland Wilton Wilton Schenectady Guilderland New Scotland Ravena	112.2 141.0 141.0 142.6 145.9 148.6 174.7 184.1 188.4 203.0	170 160 55 480 580 75 90 155 50
Dresden to Whitehall (Route 22) Unnamed Riverside Park Whitehall to Cementon (Railroad) Bertha E. Smith Park Gansevoort Town Park Saratoga County Forest Land (Fire Pond Tract) Saratoga County Forest Land (Adj. to Wilton Mall) Gavin Park Hillhurst Park Roger Keenholts Park Jim Nichols Oark Mosher Park Haverstraw Bay Bypass Route No Local or County Parks, R	Whitehall Northumberland Northumberland Northumberland Wilton Wilton Schenectady Guilderland New Scotland	112.2 141.0 141.0 142.6 145.9 148.6 174.7 184.1 188.4 203.0	170 160 55 480 580 75 90 155 50
Dresden to Whitehall (Route 22) Unnamed Riverside Park Whitehall to Cementon (Railroad) Bertha E. Smith Park Gansevoort Town Park Saratoga County Forest Land (Fire Pond Tract) Saratoga County Forest Land (Adj. to Wilton Mall) Gavin Park Hillhurst Park Roger Keenholts Park Jim Nichols Oark Mosher Park Haverstraw Bay Bypass Route	Whitehall Northumberland Northumberland Northumberland Wilton Wilton Schenectady Guilderland New Scotland Ravena	112.2 141.0 141.0 142.6 145.9 148.6 174.7 184.1 188.4 203.0	170 160 55 480 580 75 90 155 50

No Local or County Parks, Recreational Areas, or Open Space Areas within Study Area

			Table 3-1 Soils Along the Underground Transmission Cat	ble Construction	Zone	
MP in	MP out	Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classification
Dresden to	Whitehall (Ro	oute 22)				
101.3	101.4	334.82	Water			Unknown
101.4	101.5	506.84	Saco silt loam	Frequent	Very poorly drained	All hydric
101.5	101.6	522.38	Vergennes silty clay loam, 6 to 12 percent slopes	None	Moderately well drained	Not hydric
101.6	101.6	206.24	Oakville loamy fine sand, 5 to 15 percent slopes	None	Well drained	Not hydric
101.6	101.8	822.85	Pits, gravel and sand			Unknown
101.8	101.9	962.40	Farmington-Rock outcrop association, nearly level through moderately steep	None	Well drained	Unknown
101.9	102.3	2159.41	Oakville loamy fine sand, 5 to 15 percent slopes	None	Well drained	Not hydric
102.3	102.4	138.73	Pits, gravel and sand			Unknown
102.4	102.7	1663.93	Vergennes silty clay loam, 12 to 20 percent slopes	None	Moderately well drained	Not hydric
102.7	103.0	1501.61	Hollis-Rock outcrop association, gently sloping and sloping	None	Well drained	Unknown
103.0	103.0	251.30	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
103.0	103.2	1067.15	Charlton soils, very stony, gently sloping and sloping	None	Well drained	Not hydric
103.2	103.5	1677.20	Hollis-Rock outcrop association, gently sloping and sloping	None	Well drained	Unknown
103.5	103.7	890.50	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
103.7	103.9	1011.11	Vergennes silty clay loam, 12 to 20 percent slopes	None	Moderately well drained	Not hydric
103.9	104.6	3617.15	Hollis-Rock outcrop association, gently sloping and sloping	None	Well drained	Unknown
104.6	104.8	1326.19	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
104.8	104.9	202.27	Hoosic gravelly sandy loam, rolling and hilly	None	Somewhat excessively drained	Not hydric
104.9	104.9	280.13	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
104.9	105.0	476.22	Vergennes silty clay loam, 2 to 6 percent slopes	None	Moderately well drained	Not hydric
105.0	105.5	2319.83	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
105.5	105.7	1494.30	Charlton soils, very stony, gently sloping and sloping	None	Well drained	Not hydric
105.7	105.9	709.49	Vergennes silty clay loam, 6 to 12 percent slopes	None	Moderately well drained	Not hydric
105.9	105.9	20.34	Hudson and Vergennes soils, steep and very steep	None	Moderately well drained	Not hydric
105.9	105.9	329.25	Vergennes silty clay loam, 6 to 12 percent slopes	None	Moderately well drained	Not hydric
105.9	106.1	945.30	Charlton soils, very stony, moderately steep and steep	None	Well drained	Not hydric
106.1	106.1	60.52	Hudson and Vergennes soils, steep and very steep	None	Moderately well drained	Not hydric
106.1	107.0	4441.01	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric

			Table 3-1 Soils Along the Underground Transmission Cab	ble Construction	Zone	
MP in	MP out	Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classification
107.0	107.2	982.70	Rock outcrop-Hollis association, moderately steep through very steep			Unknown
107.2	107.5	1770.84	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
107.5	107.6	761.75	Rock outcrop-Hollis association, moderately steep through very steep			Unknown
107.6	107.8	789.61	Hudson and Vergennes soils, steep and very steep	None	Moderately well drained	Not hydric
107.8	108.3	2701.08	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
108.3	108.4	513.23	Hollis-Rock outcrop association, gently sloping and sloping	None	Well drained	Unknown
108.4	109.2	4463.73	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
109.2	109.4	827.48	Rock outcrop-Vergennes association, gently sloping through moderately steep			Unknown
109.4	109.4	186.14	Hudson and Vergennes soils, steep and very steep	None	Moderately well drained	Not hydric
109.4	109.6	697.20	Vergennes silty clay loam, 2 to 6 percent slopes	None	Moderately well drained	Not hydric
109.6	109.6	285.14	Vergennes silty clay loam, 12 to 20 percent slopes	None	Moderately well drained	Not hydric
109.6	109.7	321.16	Vergennes silty clay loam, 2 to 6 percent slopes	None	Moderately well drained	Not hydric
109.7	109.7	184.93	Vergennes silty clay loam, 12 to 20 percent slopes	None	Moderately well drained	Not hydric
109.7	109.8	309.60	Hudson and Vergennes soils, steep and very steep	None	Moderately well drained	Not hydric
109.8	109.8	371.13	Saprists, Aquepts, and Aquents	None	Very poorly drained	All hydric
109.8	110.0	844.47	Water			Unknown
110.0	110.1	446.74	Saprists, Aquepts, and Aquents	None	Very poorly drained	All hydric
110.1	110.1	294.66	Hudson and Vergennes soils, steep and very steep	None	Moderately well drained	Not hydric
110.1	110.3	746.36	Kingsbury silty clay, 2 to 6 percent slopes	None	Somewhat poorly drained	Not hydric
110.3	110.3	228.56	Vergennes silty clay loam, 2 to 6 percent slopes	None	Moderately well drained	Not hydric
110.3	110.4	203.13	Vergennes silty clay loam, 12 to 20 percent slopes	None	Moderately well drained	Not hydric
110.4	110.5	510.56	Kingsbury silty clay, 2 to 6 percent slopes	None	Somewhat poorly drained	Not hydric
110.5	110.5	431.21	Vergennes silty clay loam, 6 to 12 percent slopes	None	Moderately well drained	Not hydric
110.5	110.7	922.07	Rock outcrop-Vergennes association, gently sloping through moderately steep			Unknown
110.7	110.8	237.21	Kingsbury silty clay, 2 to 6 percent slopes	None	Somewhat poorly drained	Not hydric
110.8	111.1	1781.95	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
111.1	111.8	3786.18	Vergennes silty clay loam, 6 to 12 percent slopes	None	Moderately well drained	Not hydric
111.8	111.9	303.87	Vergennes silty clay loam, 12 to 20 percent slopes	None	Moderately well drained	Not hydric
111.9	111.9	216.59	Limerick silt loam	Frequent	Poorly drained	All hydric

			Table 3-1 Soils Along the Underground Transmission Cab	ole Construction	Zone	
MP in	MP out	Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classification
111.9	112.1	797.20	Vergennes silty clay loam, 12 to 20 percent slopes	None	Moderately well drained	Not hydric
112.1	112.1	308.89	Limerick silt loam	Frequent	Poorly drained	All hydric
Whitehall to	o Cementon (I	Railroad)				
112.1	112.2	156.11	Limerick silt loam	Frequent	Poorly drained	All hydric
112.2	114.3	11292.08	Orthents and Psamments	None	Well drained	Not hydric
114.3	114.7	2221.68	Limerick silt loam	Frequent	Poorly drained	All hydric
114.7	114.7	68.00	Saco silt loam	Frequent	Very poorly drained	All hydric
114.7	114.8	333.62	Limerick silt loam	Frequent	Poorly drained	All hydric
114.8	115.0	990.40	Saco silt loam	Frequent	Very poorly drained	All hydric
115.0	115.0	347.97	Limerick silt loam	Frequent	Poorly drained	All hydric
115.0	115.1	206.00	Saco silt loam	Frequent	Very poorly drained	All hydric
115.1	115.2	671.58	Kingsbury silty clay, 0 to 2 percent slopes	None	Somewhat poorly drained	Not hydric
115.2	115.2	99.25	Water			Unknown
115.2	115.6	1946.24	Saco silt loam	Frequent	Very poorly drained	All hydric
115.6	115.7	630.33	Orthents and Psamments	None	Well drained	Not hydric
115.7	116.0	1412.32	Teel silt loam	Occasional	Moderately well drained	Not hydric
116.0	116.0	210.02	Hartland very fine sandy loam, 0 to 2 percent slopes	None	Well drained	Not hydric
116.0	116.1	485.68	Orthents and Psamments	None	Well drained	Not hydric
116.1	116.2	613.04	Hartland very fine sandy loam, 0 to 2 percent slopes	None	Well drained	Not hydric
116.2	116.3	106.41	Orthents and Psamments	None	Well drained	Not hydric
116.3	116.5	1159.24	Vergennes silty clay loam, 2 to 6 percent slopes	None	Moderately well drained	Not hydric
116.5	116.5	385.00	Kingsbury silty clay, 0 to 2 percent slopes	None	Somewhat poorly drained	Not hydric
116.5	116.8	1488.40	Orthents and Psamments	None	Well drained	Not hydric
116.8	116.8	105.60	Covington silty clay loam	None	Poorly drained	All hydric
116.8	116.9	93.94	Water			Unknown
116.9	116.9	392.62	Covington silty clay loam	None	Poorly drained	All hydric
116.9	117.6	3666.97	Kingsbury silty clay, 0 to 2 percent slopes	None	Somewhat poorly drained	Not hydric
117.6	117.7	175.17	Orthents and Psamments	None	Well drained	Not hydric
117.7	117.7	131.19	Vergennes silty clay loam, 2 to 6 percent slopes	None	Moderately well drained	Not hydric
117.7	118.1	1901.19	Orthents and Psamments	None	Well drained	Not hydric
118.1	118.1	455.81	Hollis-Rock outcrop association, gently sloping and sloping	None	Well drained	Unknown
118.1	118.6	2437.39	Orthents and Psamments	None	Well drained	Not hydric
118.6	118.7	406.33	Saprists, Aquepts, and Aquents	None	Very poorly drained	All hydric
118.7	118.8	525.97	Orthents and Psamments	None	Well drained	Not hydric
118.8	119.1	1451.46	Saprists, Aquepts, and Aquents	None	Very poorly drained	All hydric
119.1	119.2	630.56	Hollis-Rock outcrop association, gently sloping and sloping	None	Well drained	Unknown
119.2	119.3	485.74	Hudson and Vergennes soils, steep and very steep	None	Moderately well drained	Not hydric
119.3	119.5	1028.18	Hollis-Rock outcrop association, gently sloping and sloping	None	Well drained	Unknown

MP in	MP out	Length of Cable through the Soil Unit (feet)	Soils Along the Underground Transmission Cab Soil Type	Flooding Frequency	Drainage Classification	Hydric Classificatior
119.5	119.6	843.97	Pits, quarry			Unknown
119.6	120.4	4336.94	Hollis-Rock outcrop association, gently sloping and sloping	None	Well drained	Unknown
120.4	120.6	920.98	Saprists, Aquepts, and Aquents	None	Very poorly drained	All hydric
120.6	120.7	493.65	Saco silt loam	Frequent	Very poorly drained	All hydric
120.7	122.4	8824.96	Hollis-Rock outcrop association, gently sloping and sloping	None	Well drained	Unknown
122.4	122.5	554.48	Limerick silt loam	Frequent	Poorly drained	All hydric
122.5	122.9	2422.27	Saco silt loam	Frequent	Very poorly drained	All hydric
122.9	123.0	50.16	Water			Unknown
123.0	123.0	103.04	Saco silt loam	Frequent	Very poorly drained	All hydric
123.0	123.1	798.34	Kingsbury silty clay, 0 to 2 percent slopes	None	Somewhat poorly drained	Not hydric
123.1	124.4	6663.52	Kingsbury silty clay, 0 to 2 percent slopes	None	Somewhat poorly drained	Not hydric
124.4	124.5	652.02	Hartland very fine sandy loam, 2 to 6 percent slopes	None	Well drained	Not hydric
124.5	124.7	1201.22	Saprists, Aquepts, and Aquents	None	Very poorly drained	All hydric
124.7	124.9	1023.97	Hartland very fine sandy loam, 2 to 6 percent slopes	None	Well drained	Not hydric
124.9	125.7	3854.92	Kingsbury silty clay, 0 to 2 percent slopes	None	Somewhat poorly drained	Not hydric
125.7	125.7	22.28	Orthents and Psamments	None	Well drained	Not hydric
125.7	126.0	1784.06	Covington silty clay loam	None	Poorly drained	All hydric
126.0	126.0	232.98	Claverack loamy fine sand, 0 to 2 percent slopes	None	Moderately well drained	Not hydric
126.0	126.6	3032.51	Covington silty clay loam	None	Poorly drained	All hydric
126.6	127.0	1773.42	Claverack loamy fine sand, 0 to 2 percent slopes	None	Moderately well drained	Not hydric
127.0	127.3	1701.67	Covington silty clay loam	None	Poorly drained	All hydric
127.3	127.4	688.70	Claverack loamy fine sand, 2 to 6 percent slopes	None	Moderately well drained	Not hydric
127.4	128.1	3593.34	Kingsbury silty clay, 2 to 6 percent slopes	None	Somewhat poorly drained	Not hydric
128.1	128.5	2428.08	Covington silty clay loam	None	Poorly drained	All hydric
128.5	128.8	1419.66	Kingsbury silty clay, 0 to 2 percent slopes	None	Somewhat poorly drained	Not hydric
128.8	130.2	7047.29	Orthents and Psamments	None	Well drained	Not hydric
130.2	131.4	6366.59	Covington silty clay loam	None	Poorly drained	All hydric
131.4	131.6	1074.60	Kingsbury silty clay, 0 to 2 percent slopes	None	Somewhat poorly drained	Not hydric
131.6	131.7	735.25	Vergennes silty clay loam, 2 to 6 percent slopes	None	Moderately well drained	Not hydric
131.7	131.7	49.12	Water			Unknown
131.7	131.7	47.24	Covington silty clay loam	None	Poorly drained	All hydric
131.7	131.7	99.50	Vergennes silty clay loam, 2 to 6 percent slopes	None	Moderately well drained	Not hydric
131.7	131.8	364.15	Kingsbury silty clay, 0 to 2 percent slopes	None	Somewhat poorly drained	Not hydric
131.8	132.6	4175.24	Carlisle muck	None	Very poorly drained	All hydric
132.6	132.6	80.18	Covington silty clay loam	None	Poorly drained	All hydric

	1		Table 3-1 Soils Along the Underground Transmission Cal	ole Construction	Zone	
MP in	MP out	Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classificatior
132.6	132.7	605.30	Carlisle muck	None	Very poorly drained	All hydric
132.7	132.7	15.04	Covington silty clay loam	None	Poorly drained	All hydric
132.7	132.9	702.90	Claverack loamy fine sand, 2 to 6 percent slopes	None	Moderately well drained	Not hydric
132.9	133.8	4709.22	Claverack loamy fine sand, 0 to 2 percent slopes	None	Moderately well drained	Not hydric
133.8	134.0	1084.97	Wallington silt loam, sandy substratum	None	Somewhat poorly drained	Not hydric
134.0	134.1	858.55	Claverack loamy fine sand, 0 to 2 percent slopes	None	Moderately well drained	Not hydric
134.1	134.2	353.37	Wallington silt loam, sandy substratum	None	Somewhat poorly drained	Not hydric
134.2	135.0	4255.88	Claverack loamy fine sand, 0 to 2 percent slopes	None	Moderately well drained	Not hydric
135.0	135.0	259.17	Water			Unknown
135.0	135.1	132.15	Orthents and Psamments	None	Well drained	Not hydric
135.1	135.1	196.98	Oakville loamy fine sand, 0 to 5 percent slopes	None	Well drained	Not hydric
135.1	135.2	404.52	Orthents and Psamments	None	Well drained	Not hydric
135.2	135.3	479.11	Water			Unknown
135.3	135.3	107.18	Water			Unknown
135.3	135.4	286.84	Limerick-Saco complex	Frequent	Poorly drained	All hydric
135.4	135.5	696.79	Hudson silt loam, hilly	None	Moderately well drained	Not hydric
135.5	135.5	302.23	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
135.5	135.6	396.14	Hudson silt loam, hilly	None	Moderately well drained	Not hydric
135.6	135.7	574.03	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
135.7	136.1	1774.84	Unadilla very fine sandy loam, 8 to 15 percent slopes	None	Well drained	Not hydric
136.1	136.2	807.03	Scio silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
136.2	136.7	2515.28	Hudson silt loam, hilly	None	Moderately well drained	Not hydric
136.7	137.0	1400.74	Rhinebeck silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
137.0	137.1	644.00	Hudson silt loam, hilly	None	Moderately well drained	Not hydric
137.1	137.1	294.09	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
137.1	137.2	436.58	Teel silt loam	Occasional	Moderately well drained	Not hydric
137.2	137.4	884.14	Unadilla very fine sandy loam, 3 to 8 percent slopes	None	Well drained	Not hydric
137.4	137.5	411.02	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
137.5	137.6	546.11	Rhinebeck silt loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
137.6	137.7	586.32	Shaker very fine sandy loam	None	Poorly drained	All hydric
137.7	137.8	426.99	Hudson silt loam, hilly	None	Moderately well drained	Not hydric
137.8	137.9	871.98	Fluvaqvents frequently flooded	Frequent	Poorly drained	All hydric
137.9	138.0	208.26	Shaker very fine sandy loam	None	Poorly drained	All hydric
138.0	138.0	450.30	Elmridge very fine sandy loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
138.0	138.0	10.20	Shaker very fine sandy loam	None	Poorly drained	All hydric
138.0	138.1	97.88	Elmridge very fine sandy loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
138.1	138.1	439.35	Shaker very fine sandy loam	None	Poorly drained	All hydric

		Length of	Soils Along the Underground Transmission Cat	ble Construction	Zone	
MP in	MP out	Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classificatior
138.1	138.2	88.45	Elmridge very fine sandy loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
138.2	138.4	1149.24	Shaker very fine sandy loam	None	Poorly drained	All hydric
138.4	138.5	711.87	Elmridge very fine sandy loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
138.5	138.6	238.44	Fluvaqvents frequently flooded	Frequent	Poorly drained	All hydric
138.6	139.0	2515.67	Wareham loamy sand	None	Poorly drained	All hydric
139.0	139.1	90.34	Madalin mucky silty clay loam	None	Very poorly drained	All hydric
139.1	139.2	974.16	Wareham loamy sand	None	Poorly drained	All hydric
139.2	139.3	527.47	Shaker very fine sandy loam	None	Poorly drained	All hydric
139.3	139.6	1228.59	Rhinebeck silt loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
139.6	139.7	516.88	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
139.7	139.9	1149.64	Rhinebeck silt loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
139.9	140.2	1451.15	Oakville and Windsor soils, 25 to 35 percent slopes	None	Well drained	Not hydric
140.2	140.3	464.13	Claverack loamy fine sand, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
140.3	140.5	1144.72	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
140.5	140.6	883.77	Cosad fine sandy loam	None	Somewhat poorly drained	Not hydric
140.6	141.3	3363.82	Oakville loamy fine sand, nearly level	None	Well drained	Not hydric
141.3	141.3	13.77	Rhinebeck silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
141.3	141.4	774.21	Rhinebeck silt loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
141.4	141.7	1273.70	Cosad fine sandy loam	None	Somewhat poorly drained	Not hydric
141.7	142.1	2495.20	Rhinebeck silt loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
142.1	142.6	2366.33	Oakville loamy fine sand, nearly level	None	Well drained	Not hydric
142.6	142.8	1278.59	Oakville loamy fine sand, undulating	None	Well drained	Not hydric
142.8	143.0	1027.91	Wareham loamy sand	None	Poorly drained	All hydric
143.0	143.3	1249.42	Deerfield loamy fine sand, nearly level	None	Moderately well drained	Not hydric
143.3	143.4	598.84	Oakville loamy fine sand, undulating	None	Well drained	Not hydric
143.4	143.5	714.12	Wareham loamy sand	None	Poorly drained	All hydric
143.5	143.6	240.21	Oakville loamy fine sand, undulating	None	Well drained	Not hydric
143.6	143.6	332.20	Wareham loamy sand	None	Poorly drained	All hydric
143.6	144.6	5388.90	Oakville loamy fine sand, undulating	None	Well drained	Not hydric
144.6	144.8	641.38	Oakville loamy fine sand, rolling	None	Well drained	Not hydric
144.8	144.8	283.91	Oakville loamy fine sand, undulating	None	Well drained	Not hydric
144.8	145.1	1368.05	Oakville loamy fine sand, rolling	None	Well drained	Not hydric
145.1	145.1	212.95	Wareham loamy sand	None	Poorly drained	All hydric
145.1	145.4	1374.45	Oakville loamy fine sand, nearly level	None	Well drained	Not hydric
145.4	145.5	892.39	Oakville loamy fine sand, undulating	None	Well drained	Not hydric
145.5 145.9	145.9 146.0	1694.86 589.51	Oakville loamy fine sand, nearly level	None	Well drained Moderately well drained	Not hydric Not hydric
145.9	146.0	941.83	Deerfield loamy fine sand, nearly level Oakville loamy fine sand, nearly level	None None	Well drained	Not hydric Not hydric
146.2	146.5	JH 1.00	Carvine loanty inte Sanu, nearly level	NULLE		NOLITYUIC

	1		Table 3-1 Soils Along the Underground Transmission Cal	ole Construction 2	Zone	
MP in	MP out	Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classification
146.5	146.5	329.61	Oakville loamy fine sand, nearly level	None	Well drained	Not hydric
146.5	146.7	924.58	Oakville loamy fine sand, nearly level	None	Well drained	Not hydric
146.7	147.3	2786.92	Oakville loamy fine sand, undulating	None	Well drained	Not hydric
147.3	147.3	183.76	Oakville loamy fine sand, rolling	None	Well drained	Not hydric
147.3	148.1	4112.40	Oakville loamy fine sand, undulating	None	Well drained	Not hydric
148.1	148.1	386.38	Windsor loamy sand, undulating	None	Excessively drained	Not hydric
148.1	148.3	945.14	Deerfield loamy fine sand, nearly level	None	Moderately well drained	Not hydric
148.3	148.9	2992.99	Windsor loamy sand, undulating	None	Excessively drained	Not hydric
148.9	149.3	2031.19	Windsor loamy sand, nearly level	None	Excessively drained	Not hydric
149.3	149.5	1082.04	Windsor loamy sand, undulating	None	Excessively drained	Not hydric
149.5	149.6	601.77	Fluvaqvents frequently flooded	Frequent	Poorly drained	All hydric
149.6	149.6	110.94	Oakville and Windsor soils, 25 to 35 percent slopes	None	Well drained	Not hydric
149.6	150.2	2942.22	Windsor loamy sand, undulating	None	Excessively drained	Not hydric
150.2	151.3	5727.64	Windsor loamy sand, rolling	None	Excessively drained	Not hydric
151.3	151.4	737.68	Rhinebeck silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
151.4	151.4	4.61	Windsor loamy sand, rolling	None	Excessively drained	Not hydric
151.4	151.4	37.87	Rhinebeck silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
151.4	151.4	5.00	Windsor loamy sand, rolling	None	Excessively drained	Not hydric
151.4	151.4	54.95	Rhinebeck silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
151.4	151.4	17.99	Windsor loamy sand, rolling	None	Excessively drained	Not hydric
151.4	151.6	1036.71	Rhinebeck silt loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
151.6	152.3	3613.38	Rhinebeck silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
152.3	152.4	329.65	Hudson silt loam, 8 to 15 percent slopes	None	Moderately well drained	Not hydric
152.4	152.6	1384.79	Deerfield loamy fine sand, undulating	None	Moderately well drained	Not hydric
152.6	152.9	1245.57	Deerfield loamy fine sand, nearly level	None	Moderately well drained	Not hydric
152.9	153.1	1321.02	Windsor loamy sand, rolling	None	Excessively drained	Not hydric
153.1	153.3	1128.64	Windsor loamy sand, undulating	None	Excessively drained	Not hydric
153.3	153.5	1196.33	Deerfield loamy fine sand, nearly level	None	Moderately well drained	Not hydric
153.5	153.7	674.11	Windsor loamy sand, undulating	None	Excessively drained	Not hydric
153.7	153.8	661.12	Madalin mucky silty clay loam	None	Very poorly drained	All hydric
153.8	154.7	4770.43	Windsor loamy sand, undulating	None	Excessively drained	Not hydric
154.7	155.0	1476.72	Scio silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
155.0	155.2	1270.05	Deerfield loamy fine sand, undulating	None	Moderately well drained	Not hydric
155.2	155.3	175.97	Wareham loamy sand	None	Poorly drained	All hydric
155.3	155.3	336.99	Claverack loamy fine sand, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
155.3	155.4	283.09	Cosad fine sandy loam	None	Somewhat poorly drained	Not hydric
155.4	155.5	537.31	Wareham loamy sand	None	Poorly drained	All hydric
155.5	157.4	9935.12	Windsor loamy sand, undulating	None	Excessively drained	Not hydric
157.4	157.4	322.28	Deerfield loamy fine sand, nearly level	None	Moderately well drained	Not hydric
157.4	157.6	1172.07	Windsor loamy sand, undulating	None	Excessively drained	Not hydric
157.6	157.8	730.50	Limerick-Saco complex	Frequent	Poorly drained	All hydric

		5	Table 3-1 Soils Along the Underground Transmission Cal	ble Construction	Zone	
MP in	MP out	Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classificatior
157.8	157.9	468.01	Sun silt loam	None	Poorly drained	All hydric
157.9	158.0	880.40	Fluvaqvents frequently flooded	Frequent	Poorly drained	All hydric
158.0	158.2	718.52	Mosherville-Hornell complex, undulating	None	Somewhat poorly drained	Not hydric
158.2	158.4	975.21	Broadalbin-Manlius-Nassau, complex, undulating	None	Moderately well drained	Not hydric
158.4	158.6	1255.51	Manlius-Nassau complex, undulating, rocky	None	Well drained	Not hydric
158.6	158.6	274.19	Deerfield loamy fine sand, nearly level	None	Moderately well drained	Not hydric
158.6	159.3	3311.41	Manlius-Nassau complex, undulating, rocky	None	Well drained	Not hydric
159.3	159.7	2438.21	Allis silt loam	None	Poorly drained	All hydric
159.7	159.9	1019.41	Mosherville-Hornell complex, undulating	None	Somewhat poorly drained	Not hydric
159.9	160.3	2004.07	Allis silt loam	None	Poorly drained	All hydric
160.3	160.5	972.63	Mosherville-Hornell complex, undulating	None	Somewhat poorly drained	Not hydric
160.5	160.6	825.90	Broadalbin silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
160.6	161.2	2692.88	Manlius-Nassau complex, undulating, rocky	None	Well drained	Not hydric
161.2	161.4	1156.23	Mosherville silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
161.4	161.6	1414.08	Mosherville silt loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
161.6	161.9	1573.19	Sun silt loam	None	Poorly drained	All hydric
161.9	162.0	95.50	Mosherville silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
162.0	162.0	176.74	Sun silt loam	None	Poorly drained	All hydric
162.0	162.3	1444.55	Mosherville silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
162.3	162.4	581.57	Sun silt loam	None	Poorly drained	All hydric
162.4	162.5	693.03	Mosherville silt loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
162.5	162.5	74.36	Sun silt loam	None	Poorly drained	All hydric
162.5	162.6	278.15	Mosherville silt loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
162.6	162.7	501.84	Broadalbin-Manlius-Nassau, complex, undulating	None	Moderately well drained	Not hydric
162.7	163.1	2225.00	Mosherville-Hornell complex, undulating	None	Somewhat poorly drained	Not hydric
163.1	163.1	197.46	Broadalbin-Manlius-Nassau, complex, undulating	None	Moderately well drained	Not hydric
163.1	164.0	4417.03	Mosherville-Hornell complex, undulating	None	Somewhat poorly drained	Not hydric
164.0	164.7	3927.56	Allis silt loam	None	Poorly drained	All hydric
164.7	164.9	787.80	Palms muck	None	Very poorly drained	All hydric
164.9	165.1	1384.61	Broadalbin-Manlius-Nassau, complex, undulating	None	Moderately well drained	Not hydric
165.1	165.2	221.28	Palms muck	None	Very poorly drained	All hydric
165.2	165.3	608.36	Broadalbin-Manlius-Nassau, complex, undulating	None	Moderately well drained	Not hydric
165.3	165.5	1240.08	Mosherville-Hornell complex, undulating	None	Somewhat poorly drained	Not hydric
165.5	165.5	10.08	Broadalbin-Manlius-Nassau, complex, undulating	None	Moderately well drained	Not hydric

		Length of	Soils Along the Underground Transmission Cat	ble Construction A		
MP in	MP out	Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classificatior
165.5	165.6	595.68	Mosherville-Hornell complex, undulating	None	Somewhat poorly drained	Not hydric
165.6	166.3	3372.61	Broadalbin-Manlius-Nassau, complex, undulating	None	Moderately well drained	Not hydric
166.3	166.3	374.42	Broadalbin-Manlius-Nassau, complex, rolling	None	Moderately well drained	Not hydric
166.3	167.0	3298.12	Broadalbin-Manlius-Nassau, complex, undulating	None	Moderately well drained	Not hydric
167.0	167.1	548.21	Mosherville-Hornell complex, undulating	None	Somewhat poorly drained	Not hydric
167.1	167.1	259.41	Allis silt loam	None	Poorly drained	All hydric
167.1	167.4	1762.33	Manlius-Nassau complex, undulating, rocky	None	Well drained	Not hydric
167.4	168.1	3292.12	Burdett silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
168.1	168.1	124.15	Nunda silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
168.1	168.2	602.95	llion silt loam	None	Poorly drained	All hydric
168.2	168.4	1240.71	Ilion silt loam, 0 to 3 percent slopes	None	Poorly drained	All hydric
168.4	168.6	688.28	Fredon silt loam	None	Somewhat poorly drained	All hydric
168.6	168.7	517.71	Teel silt loam	Occasional	Moderately well drained	Not hydric
168.7	168.8	505.68	Scio silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
168.8	168.9	459.57	Teel silt loam	Occasional	Moderately well drained	Not hydric
168.9	168.9	52.32	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
168.9	168.9	133.59	Teel silt loam	Occasional	Moderately well drained	Not hydric
168.9	169.0	560.05	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
169.0	169.4	2187.84	Raynham silt loam	None	Somewhat poorly drained	Not hydric
169.4	169.5	591.69	Elnora loamy fine sand	None	Moderately well drained	Not hydric
169.5	169.9	2178.07	Raynham silt loam	None	Somewhat poorly drained	Not hydric
169.9	170.4	2509.41	Madalin silty clay loam	None	Poorly drained	All hydric
170.4	171.1	3664.06	Cut and fill land	None	Somewhat excessively drained	Not hydric
171.1	171.4	1347.77	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
171.4	171.5	890.41	Wayland silt loam	Frequent	Poorly drained	All hydric
171.5	171.6	599.86	Cut and fill land	None	Somewhat excessively drained	Not hydric
171.6	171.7	482.24	Water			Unknown
171.7	171.8	264.82	Cut and fill land	None	Somewhat excessively drained	Not hydric
171.8	172.0	1001.57	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
172.0	172.0	380.44	Burdett-Scriba channery silt loams, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
172.0	172.1	316.26	Nunda channery silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
172.1	172.5	1820.04	Burdett-Scriba channery silt loams, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
172.5	174.5	10678.56	Cut and fill land	None	Somewhat excessively drained	Not hydric
174.5	176.4	9948.51	Colonie and Plainfield soils, steep	None	Well drained	Not hydric
176.4	176.5	636.34	Colonie loamy fine sand, 0 to 3 percent slopes	None	Well drained	Not hydric
176.5	176.6	695.47	Plainfield loamy sand, 0 to 3 percent slopes	None	Excessively drained	Not hydric

		Length of	Soils Along the Underground Transmission Cab	le Construction	Zone	
MP in	MP out	Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classificatior
176.6	176.7	274.85	Gravel pits		Somewhat excessively drained	Unknown
176.7	176.9	1313.62	Plainfield loamy sand, 0 to 3 percent slopes	None	Excessively drained	Not hydric
176.9	177.0	286.03	Gravel pits		Somewhat excessively drained	Unknown
177.0	177.1	479.26	Plainfield loamy sand, 0 to 3 percent slopes	None	Excessively drained	Not hydric
177.1	177.2	885.66	Mardin gravelly silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
177.2	178.2	4898.71	Plainfield loamy sand, 0 to 3 percent slopes	None	Excessively drained	Not hydric
178.2	178.3	543.95	Granby loamy fine sand	None	Poorly drained	All hydric
178.3	178.6	1966.82	Plainfield loamy sand, 0 to 3 percent slopes	None	Excessively drained	Not hydric
178.6	179.0	1749.04	Junius loamy fine sand	None	Somewhat poorly drained	Not hydric
179.0	179.0	262.30	Cheektowaga fine sandy loam	None	Very poorly drained	All hydric
179.0	179.0	0.00	Cheektowaga fine sandy loam	None	Very poorly drained	All hydric
179.0	179.0	1.60	Cheektowaga fine sandy loam	None	Very poorly drained	All hydric
179.0	179.0	50.40	Cheektowaga fine sandy loam	None	Very poorly drained	All hydric
179.0	179.0	140.03	Junius loamy fine sand	None	Somewhat poorly drained	Not hydric
179.0	179.4	1782.37	Madalin silty clay loam	None	Poorly drained	All hydric
179.4	179.4	77.53	Elnora loamy fine sand	None	Moderately well drained	Not hydric
179.4	179.4	254.55	Claverack loamy fine sand, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
179.4	179.6	749.00	Elnora loamy fine sand	None	Moderately well drained	Not hydric
179.6	179.6	295.54	Cheektowaga fine sandy loam	None	Very poorly drained	All hydric
179.6	179.7	98.26	Junius loamy fine sand	None	Somewhat poorly drained	Not hydric
179.7	179.7	30.39	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
179.7	179.7	274.06	Junius loamy fine sand	None	Somewhat poorly drained	Not hydric
179.7	179.7	121.69	Claverack loamy fine sand, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
179.7	179.8	177.30	Madalin silty clay loam	None	Poorly drained	All hydric
179.8	179.8	113.71	Rhinebeck silty clay loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
179.8	179.8	85.04	Claverack loamy fine sand, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
179.8	179.8	194.90	Madalin silty clay loam	None	Poorly drained	All hydric
179.8	179.9	171.14	Hudson silty clay loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
179.9	180.0	405.14	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
180.0	180.0	24.81	Claverack loamy fine sand, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
180.0	180.0	260.09	Claverack loamy fine sand, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
180.0	180.0	199.03	Cheektowaga fine sandy loam	None	Very poorly drained	All hydric
180.0	180.1	156.87	Claverack loamy fine sand, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
180.1	180.1	243.59	Cheektowaga fine sandy loam	None	Very poorly drained	All hydric
180.1	180.2	433.40	Claverack loamy fine sand, 3 to 8 percent slopes	None	Moderately well drained	Not hydric

			Table 3-1 Soils Along the Underground Transmission Cal	ble Construction	Zone	
MP in	MP out	Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classification
180.2	180.5	1291.79	Cheektowaga fine sandy loam	None	Very poorly drained	All hydric
180.5	180.5	132.66	Granby loamy fine sand	None	Poorly drained	All hydric
180.5	180.5	44.59	Granby loamy fine sand	None	Very poorly drained	All hydric
180.5	180.7	868.42	Cosad loamy fine sand	None	Somewhat poorly drained	Not hydric
180.7	180.7	310.85	Fluvaquents-Udifluvents complex, frequently flooded	Frequent	Poorly drained	Partially hydric
180.7	180.7	118.98	Cosad loamy fine sand	None	Somewhat poorly drained	Not hydric
180.7	180.8	238.06	Fluvaquents-Udifluvents complex, frequently flooded	Frequent	Poorly drained	Partially hydric
180.8	180.8	166.50	Stafford loamy fine sand	None	Somewhat poorly drained	Not hydric
180.8	180.8	133.27	Fluvaquents-Udifluvents complex, frequently flooded	Frequent	Poorly drained	Partially hydric
180.8	180.9	212.86	Shaker fine sandy loam	None	Poorly drained	All hydric
180.9	180.9	108.16	Colonie loamy fine sand, rolling	None	Somewhat excessively drained	Not hydric
180.9	180.9	120.92	Shaker fine sandy loam	None	Poorly drained	All hydric
180.9	181.0	265.47	Fluvaquents-Udifluvents complex, frequently flooded	Frequent	Poorly drained	Partially hydric
181.0	181.0	117.42	Shaker fine sandy loam	None	Poorly drained	All hydric
181.0	181.0	243.73	Colonie loamy fine sand, rolling	None	Somewhat excessively drained	Not hydric
181.0	181.2	896.63	Raynham very fine sandy loam	None	Poorly drained	All hydric
181.2	181.2	68.09	Elmridge fine sandy loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
181.2	181.4	967.76	Elnora loamy fine sand, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
181.4	181.4	236.81	Stafford loamy fine sand	None	Somewhat poorly drained	Not hydric
181.4	181.5	323.23	Elmridge fine sandy loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
181.5	181.6	299.10	Raynham very fine sandy loam	None	Poorly drained	All hydric
181.6	181.6	170.34	Birdsall mucky silt loam	None	Very poorly drained	All hydric
181.6	181.7	324.10	Raynham very fine sandy loam	None	Poorly drained	All hydric
181.7	181.7	208.25	Shaker fine sandy loam	None	Poorly drained	All hydric
181.7	181.8	599.72	Raynham very fine sandy loam	None	Poorly drained	All hydric
181.8	181.9	229.84	Scio silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
181.9	181.9	195.87	Elmridge fine sandy loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
181.9	181.9	191.66	Scio silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
181.9	182.0	244.58	Shaker fine sandy loam	None	Poorly drained	All hydric
182.0	182.0	175.37	Scio silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
182.0	182.0	171.29	Raynham very fine sandy loam	None	Poorly drained	All hydric
182.0	182.1	83.78	Elmridge fine sandy loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
182.1	182.1	143.08	Raynham very fine sandy loam	None	Poorly drained	All hydric
182.1	182.1	104.42	Elmridge fine sandy loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
182.1	182.2	309.88	Scio silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
182.2	182.2	350.33	Shaker fine sandy loam	None	Poorly drained	All hydric

			Table 3-1 Soils Along the Underground Transmission Cal	ole Construction 2	Zone	
MP in	MP out	Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classification
182.2	182.3	149.50	Scio silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
182.3	182.3	10.22	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
182.3	182.3	210.76	Claverack loamy fine sand, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
182.3	182.4	460.05	Scio silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
182.4	182.4	151.18	Raynham very fine sandy loam	None	Poorly drained	All hydric
182.4	182.5	342.41	Shaker fine sandy loam	None	Poorly drained	All hydric
182.5	182.6	505.70	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
182.6	182.6	72.38	Raynham very fine sandy loam	None	Poorly drained	All hydric
182.6	182.7	474.27	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
182.7	182.9	1330.73	Scio silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
182.9	183.0	216.63	Unadilla silt loam, 15 to 25 percent slopes	None	Well drained	Not hydric
183.0	183.0	161.96	Hudson silt loam, 25 to 45 percent slopes	None	Moderately well drained	Not hydric
183.0	183.0	135.08	Unadilla silt loam, 15 to 25 percent slopes	None	Well drained	Not hydric
183.0	183.2	682.47	Scio silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
183.2	183.2	200.52	Hudson silt loam, 25 to 45 percent slopes	None	Moderately well drained	Not hydric
183.2	183.7	2622.73	Scio silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
183.7	183.7	222.37	Colonie loamy fine sand, hilly	None	Somewhat excessively drained	Not hydric
183.7	183.8	212.91	Water			
183.8	183.8	176.17	Colonie loamy fine sand, hilly	None	Somewhat excessively drained	Not hydric
183.8	183.9	506.83	Riverhead fine sandy loam, 0 to 3 percent slopes	None	Well drained	Not hydric
183.9	183.9	146.17	Riverhead fine sandy loam, 3 to 8 percent slopes	None	Well drained	Not hydric
183.9	184.2	1296.43	Udorthents, loamy	None	Moderately well drained	Not hydric
184.2	184.2	246.27	Sudbury fine sandy loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
184.2	184.4	1156.05	Udorthents, loamy	None	Moderately well drained	Not hydric
184.4	184.7	1187.19	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
184.7	184.7	433.64	Valois gravelly loam, 3 to 8 percent slopes	None	Well drained	Not hydric
184.7	185.0	1124.88	Udorthents, loamy-Urban land complex	None	Well drained	Unknown
185.0	186.4	7775.15	Udorthents, loamy	None	Moderately well drained	Not hydric
186.4	186.5	258.89	Burdett silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
186.5	186.7	1374.79	Ilion silt loam	None	Poorly drained	All hydric
186.7	186.8	558.77	Burdett silt loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
186.8	187.4	2924.77	Burdett silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
187.4	187.6	843.90	Burdett silt loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
187.6	187.8	1228.75	llion silt loam	None	Poorly drained	All hydric
187.8	188.1	1540.30	Udorthents, loamy-Urban land complex	None	Well drained	Unknown
188.1	188.3	1120.37	Udorthents, loamy	None	Moderately well drained	Not hydric
188.3	188.4	612.16	Fluvaquents-Udifluvents complex, frequently flooded	Frequent	Poorly drained	Partially hydrid
188.4	188.5	183.28	Chenango gravelly silt loam, loamy substratum, 3 to 8 percent slopes	None	Well drained	Not hydric

MP in	MP out	Length of Cable through the Soil Unit (feet)	Soils Along the Underground Transmission Cat Soil Type	Flooding Frequency	Drainage Classification	Hydric Classificatior
188.5	188.5	244.73	Nunda silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
188.5	188.5	51.94	Chenango gravelly silt loam, loamy substratum, 3 to 8 percent slopes	None	Well drained	Not hydric
188.5	188.7	789.56	Urban land			Unknown
188.7	189.2	3056.94	Udorthents, loamy-Urban land complex	None	Well drained	Unknown
189.2	189.2	71.08	Shaker fine sandy loam	None	Poorly drained	All hydric
189.2	189.4	674.60	Riverhead fine sandy loam, 3 to 8 percent slopes	None	Well drained	Not hydric
189.4	189.4	385.67	Chenango gravelly silt loam, loamy substratum, rolling	None	Well drained	Not hydric
189.4	189.5	240.62	Unadilla silt loam, 8 to 15 percent slopes	None	Well drained	Not hydric
189.5	189.5	22.54	Riverhead fine sandy loam, 3 to 8 percent slopes	None	Well drained	Not hydric
189.5	189.6	323.25	Riverhead fine sandy loam, 3 to 8 percent slopes	None	Well drained	Not hydric
189.6	189.8	1045.89	Sudbury fine sandy loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
189.8	189.8	328.44	Fluvaquents-Udifluvents complex, frequently flooded	Frequent	Poorly drained	Partially hydri
189.8	189.9	247.86	Teel silt loam	Occasional	Moderately well drained	Not hydric
189.9	190.0	622.76	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
190.0	190.0	252.46	Chenango channery silt loam, fan, 3 to 8 percent slopes	None	Well drained	Not hydric
190.0	190.3	1582.88	Udorthents, loamy	None	Moderately well drained	Not hydric
190.3	190.4	156.74	Burdett silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
190.4	190.7	1810.06	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
190.7	190.8	351.28	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
190.8	190.8	296.08	Rhinebeck silty clay loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
190.8	190.9	545.80	Chenango channery silt loam, fan, 3 to 8 percent slopes	None	Well drained	Not hydric
190.9	191.0	393.50	Castile gravelly loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
191.0	191.1	405.18	Nunda silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
191.1	191.1	274.81	Wayland silt loam	Frequent	Poorly drained	All hydric
191.1	191.3	674.80	Burdett silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
191.3	191.4	473.37	Burdett silt loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
191.4	191.5	516.22	Burdett silt loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
191.5	191.6	640.65	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
191.6	191.7	594.28	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
191.7	191.8	431.08	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
191.8	191.8	299.69	Hudson silt loam, 25 to 45 percent slopes	None	Moderately well drained	Not hydric
191.8	191.9	497.36	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
191.9	192.0	415.95	Madalin silt loam	None	Poorly drained	All hydric

MP in	MP out	Length of Cable through the Soil Unit	Soils Along the Underground Transmission Cab Soil Type	Flooding Frequency	Drainage Classification	Hydric Classification
192.0	192.1	(feet) 401.11	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
192.1	192.2	783.05	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
192.2	192.3	296.86	Raynham very fine sandy loam	None	Poorly drained	All hydric
192.3	192.4	726.72	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
192.4	192.4	1.27	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
192.4	192.4	89.88	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
192.4	192.5	252.79	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
192.5	192.5	224.91	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
192.5	192.6	224.16	Hudson silt loam, hilly	None	Moderately well drained	Not hydric
192.6	192.8	1119.19	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
192.8	192.9	535.33	Hudson silt loam, 25 to 45 percent slopes	None	Moderately well drained	Not hydric
192.9	193.0	399.28	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
193.0	193.6	3407.99	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
193.6	196.0	12903.78	Udorthents, clayey-Urban land complex	None	Moderately well drained	Unknown
196.0	196.1	188.86	Scio silt loam, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
196.1	196.3	1401.04	Udorthents, clayey-Urban land complex	None	Moderately well drained	Unknown
196.3	196.4	66.99	Hudson silt loam, 25 to 45 percent slopes	None	Moderately well drained	Not hydric
196.4	196.4	187.14	Udorthents, clayey-Urban land complex	None	Moderately well drained	Unknown
196.4	196.6	946.96	Hudson silt loam, 25 to 45 percent slopes	None	Moderately well drained	Not hydric
196.6	196.7	856.93	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
196.7	196.8	146.87	Hudson silt loam, 25 to 45 percent slopes	None	Moderately well drained	Not hydric
196.8	196.8	76.92	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
196.8	196.8	246.31	Hudson silt loam, 25 to 45 percent slopes	None	Moderately well drained	Not hydric
196.8	196.8	14.59	Rhinebeck silty clay loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
196.8	196.9	170.33	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
196.9	196.9	40.93	Rhinebeck silty clay loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
196.9	197.1	1308.34	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
197.1	197.2	693.79	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
197.2	198.5	6692.78	Udorthents, clayey-Urban land complex	None	Moderately well drained	Unknown
198.5	198.5	144.47	Udipsamments-Urban land complex	None	Somewhat excessively drained	Unknown
198.5	198.6	468.42	Stafford loamy fine sand	None	Somewhat poorly drained	Not hydric
198.6	199.0	2155.40	Elnora loamy fine sand, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
199.0	199.1	396.51	Udipsamments, smoothed	None	Well drained	Not hydric
199.1	199.3	1106.97	Udipsamments, smoothed	None	Well drained	Not hydric
199.3	199.5	959.87	Elnora loamy fine sand, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
199.5	199.5	170.01	Colonie loamy fine sand, 3 to 8 percent slopes	None	Well drained	Not hydric
199.5	199.6	605.45	Elnora loamy fine sand, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
199.6	199.9	1271.32	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
199.9	200.0	765.85	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric

MP in	MP out	Length of Cable through the Soil Unit (feet)	Soils Along the Underground Transmission Cab Soil Type	Flooding Frequency	Drainage Classification	Hydric Classificatior
200.0	200.1	566.46	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
200.1	200.2	126.14	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
200.2	200.2	62.75	Claverack loamy fine sand, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
200.2	200.3	475.68	Hudson silt loam, 8 to 15 percent slopes	None	Moderately well drained	Not hydric
200.3	200.5	1183.07	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
200.5	200.6	507.85	Hudson silt loam, hilly	None	Moderately well drained	Not hydric
200.6	200.6	95.43	Raynham very fine sandy loam	None	Poorly drained	All hydric
200.6	200.7	554.75	Wakeland silt loam	Occasional	Somewhat poorly drained	Not hydric
200.7	200.7	136.87	Hudson silt loam, 25 to 45 percent slopes	None	Moderately well drained	Not hydric
200.7	200.8	426.31	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
200.8	200.9	255.75	Udorthents, clayey-Urban land complex	None	Moderately well drained	Unknown
200.9	201.0	502.03	Hudson silt loam, 25 to 45 percent slopes	None	Moderately well drained	Not hydric
201.0	201.0	172.81	Rhinebeck silty clay loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
201.0	201.4	2184.21	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
201.4	201.5	353.18	Madalin silt loam	None	Poorly drained	All hydric
201.5	202.4	4993.03	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
202.4	203.3	4684.19	Udorthents, loamy	None	Moderately well drained	Not hydric
203.3	203.7	2106.29	Urban land-Udorthents complex, 0 to 8 percent slopes			Unknown
203.7	204.1	1811.33	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
204.1	204.2	593.44	Rhinebeck silty clay loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
204.2	204.2	181.68	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
204.2	204.2	179.01	Hudson and Vergennes soils, 8 to 15 percent slopes	None	Moderately well drained	Not hydric
204.2	204.8	2827.29	Covington and Madalin soils	None	Poorly drained	All hydric
204.8	205.0	1082.72	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
205.0	205.9	4723.12	Riverhead loam, rolling	None	Well drained	Not hydric
205.9	205.9	290.17	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
205.9	206.2	1669.44	Nassau channery silt loam, rolling, very rocky	None	Somewhat excessively drained	Not hydric
206.2	206.3	460.10	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
206.3	206.4	447.67	Nassau channery silt loam, rolling, very rocky	None	Somewhat excessively drained	Not hydric
206.4	206.9	2491.83	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
206.9	207.2	1866.07	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
207.2	207.2	26.25	Valois-Nassau complex, hilly	None	Well drained	Not hydrid

		:	Table 3-1 Soils Along the Underground Transmission Cab	le Construction	Zone	
MP in	MP out	Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classification
207.2	207.4	937.75	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
207.4	207.6	1221.68	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
207.6	207.7	306.41	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
207.7	207.9	834.64	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
207.9	207.9	333.55	Hudson and Vergennes soils, 25 to 50 percent slopes	None	Moderately well drained	Not hydric
207.9	208.0	541.10	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
208.0	208.1	281.77	Hudson and Vergennes soils, 25 to 50 percent slopes	None	Moderately well drained	Not hydric
208.1	208.1	262.92	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
208.1	208.3	827.21	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
208.3	208.4	481.29	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
208.4	208.6	1196.62	Hudson and Vergennes soils, 25 to 50 percent slopes	None	Moderately well drained	Not hydric
208.6	208.8	978.54	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
208.8	209.0	1154.21	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
209.0	209.2	751.18	Nassau channery silt loam, rolling, very rocky	None	Somewhat excessively drained	Not hydric
209.2	209.7	2661.44	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
209.7	209.7	328.60	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
209.7	209.8	290.70	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
209.8	209.8	213.32	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
209.8	210.0	830.60	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
210.0	210.1	467.20	Hudson and Vergennes silty clay loams, 8 to 15 percent slopes, severely eroded	None	Moderately well drained	Not hydric
210.1	210.1	97.31	Wayland silt loam	Frequent	Very poorly drained	All hydric
210.1	210.2	754.34	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
210.2	210.3	223.92	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
210.3	210.3	236.12	Wayland silt loam	Frequent	Very poorly drained	All hydric
210.3	210.4	367.66	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
210.4	210.4	353.30	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
210.4	210.9	2447.43	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
210.9	211.1	864.21	Elmridge very fine sandy loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric

		:	Table 3-1 Soils Along the Underground Transmission Cab	ble Construction 2	Zone	
MP in	MP out	Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classification
211.1	211.1	82.29	Shaker very fine sandy loam	None	Somewhat poorly drained	All hydric
211.1	211.2	385.97	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
211.2	211.5	1841.90	Shaker very fine sandy loam	None	Somewhat poorly drained	All hydric
211.5	211.7	1141.59	Udorthents, loamy	None	Somewhat excessively drained	Not hydric
211.7	212.1	2094.98	Shaker very fine sandy loam	None	Somewhat poorly drained	All hydric
212.1	212.6	2312.64	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
212.6	212.9	1524.01	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
212.9	213.0	936.36	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
213.0	213.3	1561.27	Covington and Madalin soils	None	Poorly drained	All hydric
213.3	213.6	1441.83	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
213.6	213.7	530.47	Covington and Madalin soils	None	Poorly drained	All hydric
213.7	214.5	4270.77	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
214.5	214.7	894.71	Wayland silt loam	Frequent	Very poorly drained	All hydric
214.7	215.2	2985.51	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
215.2	215.3	421.08	Covington and Madalin soils	None	Poorly drained	All hydric
215.3	215.8	2698.75	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
215.8	216.3	2635.17	Covington and Madalin soils	None	Poorly drained	All hydric
216.3	216.4	375.05	Wayland silt loam	Frequent	Very poorly drained	All hydric
216.4	219.5	16332.62	Covington and Madalin soils	None	Poorly drained	All hydric
219.5	219.6	657.02	Nassau channery silt loam, hilly, very rocky	None	Somewhat excessively drained	Not hydric
219.6	219.7	545.14	Nassau channery silt loam, rolling, very rocky	None	Somewhat excessively drained	Not hydric
219.7	220.1	1840.12	Nassau channery silt loam, hilly, very rocky	None	Somewhat excessively drained	Not hydric
220.1	220.5	2191.87	Covington and Madalin soils	None	Poorly drained	All hydric
220.5	220.5	23.85	Nassau channery silt loam, rolling	None	Somewhat excessively drained	Not hydric
220.5	220.9	2321.44	Nassau channery silt loam, hilly, very rocky	None	Somewhat excessively drained	Not hydric
220.9	220.9	79.02	Nassau channery silt loam, rolling	None	Somewhat excessively drained	Not hydric
220.9	221.0	112.45	Nassau channery silt loam, hilly, very rocky	None	Somewhat excessively drained	Not hydric
221.0	221.0	10.13	Hudson and Vergennes soils, 25 to 50 percent slopes	None	Moderately well drained	Not hydric
221.0	221.0	33.09	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
221.0	221.2	1097.34	Nassau channery silt loam, steep, very rocky	None	Somewhat excessively drained	Not hydric

		:	Table 3-1 Soils Along the Underground Transmission Cab	le Construction	Zone	
MP in	MP out	Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classification
221.2	221.3	417.03	Nassau channery silt loam, rolling	None	Somewhat excessively drained	Not hydric
221.3	221.3	321.61	Nassau channery silt loam, steep, very rocky	None	Somewhat excessively drained	Not hydric
221.3	221.4	350.36	Water			Unknown
221.4	221.5	626.26	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
221.5	221.6	296.37	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
221.6	221.9	1744.17	Riverhead loam, 0 to 3 percent slopes	None	Well drained	Not hydric
221.9	221.9	256.28	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
221.9	222.0	426.02	Hudson and Vergennes soils, 25 to 50 percent slopes	None	Moderately well drained	Not hydric
222.0	222.4	1782.72	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
222.4	222.5	744.77	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
222.5	222.5	235.52	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
222.5	222.7	1009.12	Hudson and Vergennes soils, 8 to 15 percent slopes	None	Moderately well drained	Not hydric
222.7	223.8	5608.17	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
223.8	224.3	2489.99	Hudson and Vergennes soils, 8 to 15 percent slopes	None	Moderately well drained	Not hydric
224.3	224.7	2111.26	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
224.7	224.9	1253.44	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
224.9	225.0	303.65	Hudson and Vergennes soils, 8 to 15 percent slopes	None	Moderately well drained	Not hydric
225.0	225.4	2197.65	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
225.4	225.6	1185.81	Farmington gravelly silt loam, steep, rocky	None	Somewhat excessively drained	Not hydric
225.6	225.6	97.33	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
225.6	226.2	3191.88	Udorthents, loamy	None	Somewhat excessively drained	Not hydric
226.2	226.5	1407.40	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
226.5	226.5	30.42	Covington and Madalin soils	None	Poorly drained	All hydric
226.5	226.7	944.13	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
226.7	226.9	902.69	Udorthents, loamy	None	Somewhat excessively drained	Not hydric
226.9	227.0	585.69	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
227.0	227.0	415.52	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
227.0	227.4	1702.12	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric

			Table 3-1 Soils Along the Underground Transmission Cab	ble Construction	Zone	
MP in	MP out	Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classification
227.4	227.5	487.83	Farmington gravelly silt loam, steep, rocky	None	Somewhat excessively drained	Not hydric
227.5	227.5	464.25	Hudson and Vergennes soils, 8 to 15 percent slopes	None	Moderately well drained	Not hydric
227.5	227.6	506.82	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
227.6	227.9	1215.02	Riverhead loam, 3 to 8 percent slopes	None	Well drained	Not hydric
227.9	227.9	199.47	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
227.9	228.0	442.07	Covington and Madalin soils	None	Poorly drained	All hydric
228.0	228.1	446.96	Farmington gravelly silt loam, hilly, rocky	None	Well drained	Not hydric
228.1	228.3	1339.57	Udorthents, loamy	None	Somewhat excessively drained	Not hydric
228.3	228.4	526.97	Water			Unknown
Haverstraw	Bay Bypass	Route				
295.4	295.7	1440.36	Water			Unknown
295.7	295.8	366.79	Chatfield-Rock outcrop complex, hilly	None	Well drained	Unknown
295.8	295.9	546.18	Chatfield-Rock outcrop complex, rolling	None	Well drained	Unknown
295.9	295.9	277.36	Chatfield-Rock outcrop complex, hilly	None	Well drained	Unknown
295.9	296.0	360.80	Chatfield-Rock outcrop complex, rolling	None	Well drained	Unknown
296.0	296.1	643.68	lpswich muck	Frequent	Very poorly drained	All hydric
296.1	296.2	226.13	Yalesville sandy loam, 15 to 25 percent slopes	None	Well drained	Not hydric
296.2	296.4	1308.00	Udorthents, wet substratum	None	Moderately well drained	All hydric
296.4	296.5	668.25	lpswich muck	Frequent	Very poorly drained	All hydric
296.5	296.5	55.68	Hinckley gravelly loamy sand, 3 to 8 percent slopes	None	Excessively drained	Not hydric
296.5	296.6	109.07	Urban land			Unknown
296.6	296.8	1333.98	Hinckley gravelly loamy sand, 3 to 8 percent slopes	None	Excessively drained	Not hydric
296.8	297.3	2571.81	Hinckley gravelly loamy sand, 15 to 25 percent slopes	None	Excessively drained	Not hydric
297.3	297.3	68.20	Water			Unknown
297.3	297.4	533.40	Ipswich muck	Frequent	Very poorly drained	All hydric
297.4	297.5	329.92	Wethersfield gravelly silt loam, 15 to 25 percent slope s	None	Well drained	Not hydric
297.5	297.8	1791.67	Haven loam, 3 to 8 percent slopes	None	Well drained	Not hydric
297.8	297.8	90.69	Udorthents, smoothed	None	Somewhat excessively drained	Not hydric
297.8	297.8	1.65	Haven loam, 3 to 8 percent slopes	None	Well drained	Not hydric
297.8	298.0	692.10	Urban land			Unknown
298.0	298.2	1149.95	Udorthents, smoothed	None	Somewhat excessively drained	Not hydric
298.2	298.6	2293.30	Hinckley gravelly loamy sand, 3 to 8 percent slopes	None	Excessively drained	Not hydric
298.6	298.9	1319.36	Hinckley-Urban land complex, 0 to 8 percent slopes	None	Excessively drained	Unknown
298.9	299.3	2059.83	Hinckley gravelly loamy sand, 3 to 8 percent slopes	None	Excessively drained	Not hydric
299.3	299.4	815.83	Holyoke-Rock outcrop complex, rolling	None	Well drained	Unknown
299.4	299.7	1504.91	Wethersfield-Urban land complex, 2 to 8 percent slopes	None	Well drained	Unknown

			Table 3-1 Soils Along the Underground Transmission Cab	le Construction 2	Zone	
MP in	MP out	Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classification
299.7	300.3	2966.88	Holyoke-Rock outcrop complex, hilly	None	Well drained	Unknown
300.3	300.7	2356.25	Holyoke-Rock outcrop complex, very steep	None	Well drained	Unknown
300.7	301.7	5309.67	Holyoke-Rock outcrop complex, hilly	None	Well drained	Unknown
301.7	301.9	916.36	Wethersfield gravelly silt loam, 8 to 15 percent slopes	None	Well drained	Not hydric
301.9	302.2	1465.36	Wethersfield gravelly silt loam, 3 to 8 percent slopes	None	Well drained	Not hydric
302.2	302.2	53.82	Udorthents, smoothed	None	Somewhat excessively drained	Not hydric
302.2	302.3	788.38	Wethersfield gravelly silt loam, 3 to 8 percent slopes	None	Well drained	Not hydric
302.3	302.4	478.34	Udorthents, smoothed	None	Somewhat excessively drained	Not hydric
302.4	302.5	542.30	Wethersfield gravelly silt loam, 3 to 8 percent slopes	None	Well drained	Not hydric
302.5	302.5	147.58	Wethersfield gravelly silt loam, 8 to 15 percent slopes	None	Well drained	Not hydric
302.5	302.6	433.45	Holyoke-Rock outcrop complex, hilly	None	Well drained	Unknown
302.6	302.7	589.46	Holyoke-Rock outcrop complex, very steep	None	Well drained	Unknown
302.7	302.8	413.54	Water			Unknown
Hell Gate B	ypass Route					
330.2	331.9	1.51	Urban Land			Unknown
Luyster Cre	ek Converter	Station				
			Soils data for this location does no	t exist.		

	Table 3. Soils Along the Underground Transmission (aconfigured Segments)	
Length of Cable through the Soil Unit (feet)	Soil Type	Flooding Frequency	Drainage Classification	Hydric Classification
Dresden to Whi	itehall (Route 22)			
339.19	Vergennes silty clay loam, 6 to 12 percent slopes	None	Moderately well drained	Not hydric
126.46	Oakville loamy fine sand, 5 to 15 percent slopes	None	Well drained	Not hydric
874.95	Pits, gravel and sand			Unknown
859.67	Farmington-Rock outcrop association, nearly level through moderately steep	None	Well drained	Unknown
2331.23	Oakville loamy fine sand, 5 to 15 percent slopes	None	Well drained	Not hydric
145.21	Pits, gravel and sand			Unknown
1597.10	Vergennes silty clay loam, 12 to 20 percent slopes	None	Moderately well drained	Not hydric
1430.65	Hollis-Rock outcrop association, gently sloping and sloping	None	Well drained	Unknown
559.79	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
867.28	Charlton soils, very stony, gently sloping and sloping	None	Well drained	Not hydric
1556.25	Hollis-Rock outcrop association, gently sloping and sloping	None	Well drained	Unknown
1228.47	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
776.92	Vergennes silty clay loam, 12 to 20 percent slopes	None	Moderately well drained	Not hydric
3581.21	Hollis-Rock outcrop association, gently sloping and sloping	None	Well drained	Unknown
1381.05	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
239.00	Hoosic gravelly sandy loam, rolling and hilly	None	Somewhat excessively drained	Not hydric
247.37	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
486.47	Vergennes silty clay loam, 2 to 6 percent slopes	None	Moderately well drained	Not hydric
2331.04	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
1512.09	Charlton soils, very stony, gently sloping and sloping	None	Well drained	Not hydric
1021.09	Vergennes silty clay loam, 6 to 12 percent slopes	None	Moderately well drained	Not hydric

919.65	Soils Along the Underground Transmission C Charlton soils, very stony, moderately steep and steep			
4550.00	Chanton Solis, very storry, moderately steep and steep	None	Well drained	Not hydric
4553.99	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
1046.89	Rock outcrop-Hollis association, moderately steep through very steep			Unknown
1718.26	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
787.29	Rock outcrop-Hollis association, moderately steep through very steep			Unknown
704.14	Hudson and Vergennes soils, steep and very steep	None	Moderately well drained	Not hydric
2719.02	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
664.26	Hollis-Rock outcrop association, gently sloping and sloping	None	Well drained	Unknown
4443.66	Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
734.47	Rock outcrop-Vergennes association, gently sloping through moderately steep			Unknown
171.24	Hudson and Vergennes soils, steep and very steep	None	Moderately well drained	Not hydric
772.70	Vergennes silty clay loam, 2 to 6 percent slopes	None	Moderately well drained	Not hydric
672.05	Vergennes silty clay loam, 12 to 20 percent slopes	None	Moderately well drained	Not hydric
301.49	Hudson and Vergennes soils, steep and very steep	None	Moderately well drained	Not hydric
299.79	Saprists, Aquepts, and Aquents	None	Very poorly drained	All hydric
922.07	Water			Unknown
169.17	Saprists, Aquepts, and Aquents	None	Very poorly drained	All hydric
636.08	Hudson and Vergennes soils, steep and very steep	None	Moderately well drained	Not hydric
750.82	Kingsbury silty clay, 2 to 6 percent slopes	None	Somewhat poorly drained	Not hydric
229.86	Vergennes silty clay loam, 2 to 6 percent slopes	None	Moderately well drained	Not hydric
193.73	Vergennes silty clay loam, 12 to 20 percent slopes	None	Moderately well drained	Not hydric
482.77	Kingsbury silty clay, 2 to 6 percent slopes	None	Somewhat poorly drained	Not hydric
443.48 933.47	Vergennes silty clay loam, 6 to 12 percent slopes Rock outcrop-Vergennes association, gently sloping through	None	Moderately well drained	Not hydric Unknown
2032.16	moderately steep Hollis-Charlton association, moderately steep and steep	None	Well drained	Not hydric
3798.86	Vergennes silty clay loam, 6 to 12 percent slopes	None	Moderately well drained	Not hydric
962.38	Vergennes sity clay loam, 0 to 12 percent slopes	None	Moderately well drained	Not hydric
elkirk to Cem		None	Moderately wer dramed	Not Hydrio
1079.00	Udipsamments, smoothed	None	Well drained	Not hydric
1065.91	Elnora loamy fine sand, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
185.85	Colonie loamy fine sand, 3 to 8 percent slopes	None	Well drained	Not hydric
615.28	Elnora loamy fine sand, 0 to 3 percent slopes	None	Moderately well drained	Not hydric
1181.75	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
753.31	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
560.60	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
128.07	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
59.51	Claverack loamy fine sand, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
479.33	Hudson silt loam, 8 to 15 percent slopes	None	Moderately well drained	Not hydric
1182.74	Hudson silt loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
582.95	Hudson silt loam, hilly	None	Moderately well drained	Not hydric
527.64 180.96	Wakeland silt loam Hudson silt loam, 25 to 45 percent slopes	Occasional None	Somewhat poorly drained Moderately well drained	Not hydric Not hydric
648.50	Udorthents, clayey-Urban land complex	None	Moderately well drained	Unknown
519.28	Hudson silt loam, 25 to 45 percent slopes	None	Moderately well drained	Not hydric
169.11	Rhinebeck silty clay loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
2185.13	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
349.92	Madalin silt loam	None	Poorly drained	All hydric
4979.80	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
4655.22	Udorthents, loamy	None	Moderately well drained	Not hydric
2124.66	Urban land-Udorthents complex, 0 to 8 percent slopes	-		Unknown
1800.56	Rhinebeck silty clay loam, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
591.16	Rhinebeck silty clay loam, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
180.12	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
176.12	Hudson and Vergennes soils, 8 to 15 percent slopes	None	Moderately well drained	Not hydric
2811.13	Covington and Madalin soils	None	Poorly drained	All hydric
1080.59	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
4700.16	Riverhead loam, rolling	None	Well drained	Not hydric
	Kingshum, and Dhinghool, spile 0 to 2 neres at slands	None	Somewhat poorly drained	Not hydric
281.79	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	NONE	Somewhat excessively	Het Hjane

	Soils Along the Underground Transmission C			
507.68	Nassau channery silt loam, rolling, very rocky	None	Somewhat excessively drained	Not hydric
2460.52	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
2796.55	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
1214.00	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
309.97	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
831.10	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
333.62	Hudson and Vergennes soils, 25 to 50 percent slopes	None	Moderately well drained	Not hydric
518.64	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
282.18	Hudson and Vergennes soils, 25 to 50 percent slopes	None	Moderately well drained	Not hydric
152.13	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
983.90	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
358.43	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
1288.85	Hudson and Vergennes soils, 25 to 50 percent slopes	None	Moderately well drained	Not hydric
971.83	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
1131.56 759.05	Hudson and Vergennes soils, 3 to 8 percent slopes Nassau channery silt loam, rolling, very rocky	None None	Moderately well drained Somewhat excessively	Not hydric Not hydric
2639.40		None	drained Mederately well drained	Not hydric
<u>2639.40</u> 324.63	Hudson and Vergennes soils, 3 to 8 percent slopes Hudson and Vergennes silty clay loams, 15 to 25 percent slopes,	None	Moderately well drained Moderately well drained	Not hydric Not hydric
291.97	severely eroded Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somowhat poorly drained	
291.97	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes,	None	Somewhat poorly drained Moderately well drained	Not hydric Not hydric
831.45	severely eroded Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
466.55	Hudson and Vergennes silty clay loams, 8 to 15 percent slopes,	None	Moderately well drained	Not hydric
79.22	severely eroded Wayland silt loam	Frequent	Very poorly drained	All hydric
785.29	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	Frequent None	Somewhat poorly drained	Not hydric
200.02	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
228.07	Wayland silt loam	Frequent	Very poorly drained	All hydric
368.29	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
344.31	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
2439.10	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
860.47	Elmridge very fine sandy loam, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
82.11	Shaker very fine sandy loam	None	Somewhat poorly drained	All hydric
380.87	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
1860.30	Shaker very fine sandy loam	None	Somewhat poorly drained	All hydric
1087.07	Udorthents, loamy	None	Somewhat excessively drained	Not hydric
2146.04	Shaker very fine sandy loam	None	Somewhat poorly drained	All hydric
2297.14	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
1516.00	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
931.29	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
1546.82	Covington and Madalin soils	None	Poorly drained	All hydric
1435.83	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
533.28	Covington and Madalin soils	None	Poorly drained	All hydric
4238.82	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
295.59	Wayland silt loam	Frequent	Very poorly drained	All hydric
<u>116.07</u> 490.17	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes Wayland silt loam	None	Somewhat poorly drained	Not hydric
490.17 2964.42	Wayland slit loam Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	Frequent	Very poorly drained Somewhat poorly drained	All hydric Not hydric
2964.42 419.54	Covington and Madalin soils	None None	Poorly drained	All hydric
419.54 2679.42	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
0305.38	Covington and Madalin soils	None	Poorly drained	All hydric
17.88	Valois-Nassau complex, hilly	None	Well drained	Not hydric
3942.20	Covington and Madalin soils	None	Poorly drained	All hydric
691.38	Nassau channery silt loam, hilly, very rocky	None	Somewhat excessively drained	Not hydric
424.96	Nassau channery silt loam, rolling, very rocky	None	Somewhat excessively drained	Not hydric
1998.08	Nassau channery silt loam, hilly, very rocky	None	Somewhat excessively drained	Not hydric
2044.34	Covington and Madalin soils	None	Poorly drained	All hydric

	Table 3.1 Soils Along the Underground Transmission C		econfigured Segments)	
2427.92	Nassau channery silt loam, hilly, very rocky	None	Somewhat excessively drained	Not hydric
1238.90	Nassau channery silt loam, steep, very rocky	None	Somewhat excessively drained	Not hydric
409.72	Nassau channery silt loam, rolling	None	Somewhat excessively drained	Not hydric
315.40	Nassau channery silt loam, steep, very rocky	None	Somewhat excessively drained	Not hydric
347.60	Water			Unknown
638.68	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
273.13	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
1751.39	Riverhead loam, 0 to 3 percent slopes	None	Well drained	Not hydric
246.84	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
418.92	Hudson and Vergennes soils, 25 to 50 percent slopes	None	Moderately well drained	Not hydric
1762.42	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
769.28	Kingsbury and Rhinebeck soils, 0 to 3 percent slopes	None	Somewhat poorly drained	Not hydric
232.47	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
1013.17	Hudson and Vergennes soils, 8 to 15 percent slopes	None	Moderately well drained	Not hydric
5593.81	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
2445.20	Hudson and Vergennes soils, 8 to 15 percent slopes	None	Moderately well drained	Not hydric
2115.85	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
1237.82	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
301.90	Hudson and Vergennes soils, 8 to 15 percent slopes	None	Moderately well drained	Not hydric
2227.71	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
1149.92	Farmington gravelly silt loam, steep, rocky	None	Somewhat excessively drained	Not hydric
78.64	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
3170.31	Udorthents, loamy	None	Somewhat excessively drained	Not hydric
1392.89	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
4.92	Covington and Madalin soils	None	Poorly drained	All hydric
363.92	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
25.80	Covington and Madalin soils	None	Poorly drained	All hydric
559.06	Kingsbury and Rhinebeck soils, 3 to 8 percent slopes	None	Somewhat poorly drained	Not hydric
938.27	Udorthents, loamy	None	Somewhat excessively drained	Not hydric
548.52	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
468.09	Hudson and Vergennes silty clay loams, 15 to 25 percent slopes, severely eroded	None	Moderately well drained	Not hydric
1569.61	Hudson and Vergennes soils, 3 to 8 percent slopes	None	Moderately well drained	Not hydric
629.19	Farmington gravelly silt loam, steep, rocky	None	Somewhat excessively drained	Not hydric
234.93	Hudson and Vergennes soils, 8 to 15 percent slopes	None	Moderately well drained	Not hydric
	ay Bypass Route			
829.94	Water			Unknown
263.11	Chatfield-Rock Outcrop Complex, hilly	None	Well Drained	Unknown
554.57	Chatfield-Rock Outcrop Complex, rolling	None	Well Drained	Unknown
285.63	Chatfield-Rock Outcrop Complex, hilly	None	Well Drained	Unknown
400.24	Chatfield-Rock Outcrop Complex, rolling	None	Well Drained	Unknown
619.24	Ipswich Muck	Frequent	Very Poorly Drained	All Hydric
227.04	Yalesville sandy loan, 15 to 25 percent slopes	None	Well Drained	Not Hydric
1,302.41	Udorthents, wet substratum	None	Moderately Well Drained	All Hydric
684.10	Ipswich Muck	Frequent	Very Poorly Drained	All Hydric
1,557.69	Hinckley gravelly loamy sand, 3 to 8 percent slopes	None	Excessively Drained	Not Hydric
2,431.58	Hinckley gravelly loamy sand, 15 to 25 percent slops	None	Excessively Drained	Not Hydric
80.70	Water			Unknown
583.46	Ipswich muck	Frequent	Very Poorly Drained	All Hydric
334.47	Wethersfield gravelly silt loam, 15 to 25 percent slopes	None	Well Drained	Not Hydric
1,747.27	Haven Loam, 3 to 8 percent	None	Well Drained	Not Hydric
85.45	Udorthents, smoothed	None	Somewhat Excessively Drained	Not Hydric
677.67	Urban Land			Unknown
6.25	Haven Loam, 3 to 8 percent slopes	None	Well Drained	Not Hydric

	Table 3.			
	Soils Along the Underground Transmission C	Cable Corridor (R	econfigured Segments)	
1156.80	Udorthents, smoothed	None	Somewhat Excessively Drained	Not Hydric
2,256.36	Hinckley gravelly loamy sand, 3 to 8 percent slopes	None	Excessively Drained	Not Hydric
1,351.35	Hinckley-Urban land complex, 0 to 8 percent slopes	None	Excessively Drained	Unknown
2,027.07	Hinckley gravelly loamy sand, 3 to 8 percent slopes	None	Excessively Drained	Not Hydric
806.11	Holyoke-Rock Outcrop Complex, rolling	None	Well Drained	Unknown
1,502.15	Wethersfield-Urban Land Complex, 2 to 8 percent slopes	None	Well Drained	Unknown
2,946.80	Holyoke-Rock Outcrop Complex, hilly	None	Well Drained	Unknown
2,332.72	Holyoke-Rock Outcrop Complex, very steep	None	Well Drained	Unknown
4,088.77	Holyoke-Rock Outcrop Complex, hilly	None	Well Drained	Unknown
745.30	Pits, quarry			Unknown
1,812.20	Holyoke-Rock Outcrop Complex, very steep	None	Well Drained	Unknown
16.30	Water			Unknown
24.00	Holyoke-Rock Outcrop Complex, very steep	None	Well Drained	Unknown
1,690.08	Water			Unknown
Hell Gate Bypa	ass Route	•	· · ·	
	Urban Land			Unknown
Astoria to Rair	ney Route			
	Urban Land			Unknown

Table 3.1-2	
Surficial Materials along the Underground Transmissic Length of Cable through the Surficial Material Unit (feet)	Surficial Material
Dresden to Whitehall (Route 22)	Sufficial Material
25873.76	Till Variable texture (boulders to silt)
15526.75	Bedrock
2198.66	Lacustrine silt and clay
2109.46	Water
1385.18	Lacustrine silt and clay
8462.55	Till Variable texture (boulders to silt)
Selkirk to Cementon 2394.28	L coustring good
	Lacustrine sand
5378.46	Lacustrine silt and clay
703.68	Recent alluvium
8674.68	Lacustrine silt and clay
9444.04	Till Variable texture (boulders to silt)
76.28	Bedrock
3747.92	Till Variable texture (boulders to silt)
4283.83	Lacustrine delta
6592.59	Lacustrine silt and clay
177.56	Till Variable texture (boulders to silt)
18503.63	Lacustrine silt and clay
3452.33	Lacustrine delta
2713.10	Lacustrine silt and clay
4727.55	Lacustrine sand
33782.89	Lacustrine silt and clay
10397.76	Till Variable texture (boulders to silt)
8632.19	Lacustrine silt and clay
3250.47	Bedrock
9868.69	Lacustrine silt and clav
5386.80	Till Variable texture (boulders to silt)
7039.04	Lacustrine silt and clay
Haverstraw Bay Bypass Route	Eacustinic sint and only
4417.96	Bedrock
571.95	Till Variable texture (boulders to silt)
10410.48	Lacustrine silt and clay
10410.48	Recent alluvium
4877.99	Lacustrine silt and clay
81.15	Kame deposits
1125.97	Lacustrine silt and clay
1672.05	Bedrock
5589.41	Till Variable texture (boulders to silt)
2916.22	Bedrock
Hell Gate Bypass Route	
6436.67	Till Variable texture (boulders to silt)
Astoria to Rainey Route	
15872.8	Till Variable texture (boulders to silt)

	le 3.1-3 smission Cable Corridor (Reconfigured Segments)
Length of Cable through Identified Bedrock Geology (feet)	Description
Dresden to Whitehall (Route 22)	Description
22989.53	Hybrid rock: mangeritic to charnockitic gneiss
1546.69	Potsdam Sandstone
18584.14	Hybrid rock: mangeritic to charnockitic gneiss
2571.20	water
4883.53	Calcitic and dolomitic marble, variably siliceous
1319.56	Quartzite, quartz-biotite schist and graphitic schist
1727.22	Calcitic and dolomitic marble, variably siliceous
1934.50	Biotite-quartz-plagioclase paragneiss, amphibolite, and related migmatite
Selkirk to Cementon	· · · · · · · · · · · · · · · · · · ·
10448.69	Normanskill Shale
16159.41	Schenectady Formation
50716.03	Austin Glen Formation
1005.86	Mount Merino Formation
70897.77	Austin Glen Formation
Haverstraw Bay Bypass Route	
29.01	Balmville Limestone
2904.1	Diorite with hornblende and/or biotite
21138.75	Balmville Limestone
11357.94	Palisade Diabase sill
Hell Gate Bypass Route	
1791.45	Fordham Gneiss
1025.44	Inwood Marble
1623.50	Manhattan Formation
515.28	Inwood Marble
1034.07	Fordham Gneiss
392.62	Harrison Gneiss
Astoria to Rainey Route	
12159.7	Glacial and Alluvial Deposits
3713.1	Harrison Gneiss

	Surficial Materials along t	Table 3-2	truction Zono	
MP in	MP out	he Underground Transmission Cable Cons Length of Cable through the Surficial Material Unit (feet)	Surficial Material	
Dresden to Whitehall (Route 22)			
101.3	106.4	26860.94	Till Variable texture (boulders to silt)	
106.4	109.3	15416.77	Bedrock	
109.3	109.8	2359.17	Lacustrine silt and clay	
109.8	110.1	1997.12	Water	
110.1	110.4	1442.28	Lacustrine silt and clay	
110.4	112.1	9087.55	Till Variable texture (boulders to silt)	
Nhitehall to Cementon (Railroa	ld)	·		
112.1	112.7	2985.06	Till Variable texture (boulders to silt)	
112.7	113.0	1475.76	Lacustrine silt and clay	
113.0	113.2	1467.89	Recent alluvium	
113.2	115.2	10512.39	Lacustrine silt and clay	
115.2	115.7	2663.85	Recent alluvium	
115.7	120.2	23467.99	Recent alluvium	
120.2	120.7	2512.45	Lacustrine silt and clay	
120.7	120.8	761.14	Bedrock	
120.8	120.9	701.34	Recent alluvium	
120.9	122.7	9481.53	Bedrock	
122.7	123.1	2030.84	Recent alluvium	
123.1	124.7	8507.07	Recent alluvium	
124.7	125.1	1727.50	Lacustrine silt and clay	
125.1	127.1	10737.35	Recent alluvium	
127.1	127.5	2176.69	Lacustrine silt and clay	
127.5	128.2	3811.99	Recent alluvium	
128.2	132.5	22807.85	Lacustrine silt and clay	
132.5	137.1	23885.89	Recent alluvium	
137.1	137.2	541.21	Lacustrine silt and clay	
137.2	137.7	2608.04	Lacustrine sand	
137.7	138.1	2093.92	Recent alluvium	

	Surficial Materials along t	he Underground Transmission Cable Cons	truction Zone
MP in	MP out	Length of Cable through the Surficial Material Unit (feet)	Surficial Material
138.1	140.0	10216.63	Lacustrine sand
140.0	140.0	7.38	Recent alluvium
140.0	146.5	34570.83	Wind-deposited sand
146.5	148.9	12567.99	Wind-deposited sand
148.9	150.0	5557.87	Lacustrine sand
150.0	151.0	5530.87	Till Variable texture (boulders to silt)
151.0	157.6	34539.75	Lacustrine sand
157.6	157.9	1868.61	Fluvial sand and/or gravel
157.9	157.9	35.46	Lacustrine sand
157.9	158.0	232.39	Fluvial sand and/or gravel
158.0	159.0	5571.96	Lacustrine sand
159.0	163.2	22180.85	Till Variable texture (boulders to silt)
<u> </u>	164.5 165.4	6954.42 4449.89	Outwash sand and gravel Bedrock
165.4	168.0	13754.24	Outwash sand and gravel
168.0	168.4	2331.60	Till Variable texture (boulders to silt)
168.4	169.6	6150.88	Outwash sand and gravel
169.6	176.3	35603.67	Recent alluvium
176.3	178.9	13379.55	Lacustrine delta
178.9	179.0	664.38	Lacustrine sand
179.0	179.0	0.75	Lacustrine sand
179.0	179.0	0.85	Lacustrine sand
179.0	182.0	16042.30	Lacustrine sand
182.0	183.6	8002.01	Lacustrine silt and clay
183.6	183.8	1270.03	Recent alluvium
183.8	183.9	685.93	Lacustrine silt and clay
183.9	183.9	67.54	Recent alluvium
183.9	184.0	113.86	Outwash sand and gravel
184.0	184.2	1284.13	Kame deposits
184.2	186.1	10118.73	Outwash sand and gravel
186.1	186.6	2397.38	Till Variable texture (boulders to silt)
186.6	188.0	7321.16	Outwash sand and gravel
188.0	188.9	4858.55	Lacustrine delta
188.9	189.5	3237.74	Kame deposits
189.5	189.5	24.71	Kame deposits
189.5	190.9	7481.66	Lacustrine silt and clay
<u>190.9</u> 192.4	<u>192.4</u> 192.4	7881.77	Lacustrine delta Lacustrine delta
192.4	192.4	1.27 3051.71	Lacustrine delta
192.4	198.5	28994.98	Lacustrine silt and clay
198.5	190.3	3312.93	Lacustrine sand
199.1	199.6	2508.93	Lacustrine sand
199.6	200.6	5305.16	Lacustrine silt and clay
200.6	200.7	665.73	Recent alluvium
200.7	202.4	8717.75	Lacustrine silt and clay
202.4	204.2	9462.14	Till Variable texture (boulders to silt)
204.2	204.2	81.63	Bedrock
204.2	204.9	3755.90	Till Variable texture (boulders to silt)
204.9	205.7	4293.09	Lacustrine delta
205.7	206.9	6457.31	Lacustrine silt and clay
206.9	207.0	464.07	Till Variable texture (boulders to silt)
207.0	210.5	18547.28	Lacustrine silt and clay
210.5	211.2	3454.46	Lacustrine delta
211.2	211.7	2703.93	Lacustrine silt and clay
211.7	212.6	4737.51	Lacustrine sand
212.6	219.0	34022.63	Lacustrine silt and clay
219.0	221.0	10402.54	Till Variable texture (boulders to silt)
221.0	222.6	8683.47	Lacustrine silt and clay
222.6	223.3	3266.76	Bedrock
223.3	225.1	9926.24	Lacustrine silt and clay
225.1	226.2	5442.87	Till Variable texture (boulders to silt)
226.2	227.6	7667.02	Lacustrine silt and clay
227.6	228.1	2665.28	Till Variable texture (boulders to silt)

		Table 3-2	
	Surficial Materials along the	he Underground Transmission Cable Cons	truction Zone
MP in	MP out	Length of Cable through the Surficial Material Unit (feet)	Surficial Material
Haverstraw Bay Bypass Route			
295.4	295.5	450.07	Water
295.5	296.4	4654.64	Bedrock
296.4	296.5	572.09	Till Variable texture (boulders to silt)
296.5	298.5	10479.28	Lacustrine silt and clay
298.5	298.7	986.61	Recent alluvium
298.7	299.6	4758.24	Lacustrine silt and clay
299.6	299.7	624.92	Kame deposits
299.7	300.4	3534.75	Lacustrine silt and clay
300.4	300.7	1698.02	Bedrock
300.7	301.6	5002.72	Till Variable texture (boulders to silt)
301.6	302.1	2387.11	Bedrock
302.1	302.1	267.86	Till Variable texture (boulders to silt)
302.1	302.2	448.26	Bedrock
302.2	302.4	1192.08	Till Variable texture (boulders to silt)
302.4	302.8	1963.66	Bedrock
Hell Gate Bypass Route			
330.2	331.4	5862.47	Till Variable texture (boulders to silt)
331.8	331.9	611.56	Till Variable texture (boulders to silt)
Luyster Creek Converter Station			
-	-	-	Till Variable texture (boulders to silt)

	Bedrock Geolo	Table 3-3 gy along the Underground Transmissic	n Cable Construction Zone
MP in	MP out	Length of Cable through Identified Bedrock Geology (feet)	Description
Dresden to Whitehall (Ro	ute 22)		
101.3	105.9	23975.28	Hybrid rock: mangeritic to charnockitic gneiss
105.9	106.1	1575.31	Potsdam Sandstone
106.1	109.6	18385.80	Hybrid rock: mangeritic to charnockitic gneiss
109.6	110.1	2657.28	Water
110.1	111.0	4798.75	Calcitic and dolomitic marble, variably siliceous
111.0	111.3	1472.02	Quartzite, guartz-biotite schist and graphitic schist
111.3	111.6	1648.36	Calcitic and dolomitic marble, variably siliceous
111.6	112.1	2601.23	Biotite-quartz-plagioclase paragneiss, amphibolite, and related migmatite
Whitehall to Cementon (F	Railroad)		
112.1	115.0	15031.20	Biotite-quartz-plagioclase paragneiss, amphibolite, and related migmatite
115.0	115.8	4103.16	Potsdam Sandstone
115.8	120.3	23775.97	Potsdam Sandstone
120.3	120.6	1648.89	Amphibolite, pyroxenic amphibolite
120.6	121.8	6778.36	Potsdam Sandstone
121.8	122.3	2588.41	Biotite-quartz-plagioclase paragneiss, amphibolite, and related migmatite
122.3	122.4	160.79	Calcitic and dolomitic marble, variably siliceous
122.4	123.1	3973.46	Biotite-quartz-plagioclase paragneiss, amphibolite, and related migmatite
123.1	123.2	206.28	Biotite-quartz-plagioclase paragneiss, amphibolite, and related migmatite
123.2	123.4	1445.51	Calcitic and dolomitic marble, variably siliceous
123.4	124.1	3608.72	Biotite-quartz-plagioclase paragneiss, amphibolite, and related migmatite
124.1	125.4	6789.54	Potsdam Sandstone
125.4	135.3	52234.28	Canajoharie Shale
135.3	135.5	1079.84	Water
135.5	136.6	5669.87	Canajoharie Shale
136.6	137.0	2144.19	Water
137.0	146.5	50514.12	Canajoharie Shale
146.5	150.4	20414.59	Canajoharie Shale
150.4	153.3	15128.02	Beekmantown Group
153.3	153.4	860.74	Dolgeville Formation

Bedrock Geology along the Underground Transmission Cable Construction Zone MP in MP out Length of Cable through (dentified Bedrock Geology (men) Description 153.4 168.2 77649 98 Canajohanie Shale 168.2 168.8 3432.81 Schenetady Formation 168.1 169.1 375.57 Schenetady Formation 168.1 169.1 122.51 Canajohanie Shale 169.1 169.1 122.51 Canajohanie Shale 170.8 170.8 5446.84 Canajohanie Shale 170.8 170.9 344.81 Water 171.6 171.7 679.55 Normaskil Shale 171.6 171.7 173.5 9349.73 Schenetady Formation 173.5 173.9 1768.30 Schenetady Formation 173.5 173.9 1768.30 Schenetady Formation 173.5 173.9 178.60 Normaskil Shale 173.0 179.0 0.75 Normaskil Shale 173.5 173.9 1766.42 Normaskil Shale			Table 3-3	
MP in MP out Identified Bedrock Geology (reet) Description 153.4 168.2 77549.98 Canajoharie Shale 168.2 168.8 3432.81 Schemetady Formation 168.1 169.0 169.1 375.57 Schemetady Formation 169.1 169.1 172.51 Canajoharie Shale 169.1 169.1 Canajoharie Shale Canajoharie Shale 169.1 169.1 Canajoharie Shale Canajoharie Shale 170.8 170.8 5446.64 Canajoharie Shale 171.4 171.4 2754.44 Canajoharie Shale 171.4 171.6 684.07 Water 171.5 173.5 407.58 Normanskiil Shale 173.5 173.5 407.58 Normanskiil Shale 173.0 179.0 0.75 Normanskiil Shale 179.0 179.0 0.82 Normanskiil Shale 179.0 179.0 0.83 Normanskiil Shale 179.0 179.0 0.843.39 Normanskiil Shale <th></th> <th>Bedrock Geolog</th> <th>y along the Underground Transmission Ca</th> <th>able Construction Zone</th>		Bedrock Geolog	y along the Underground Transmission Ca	able Construction Zone
168.2 168.8 3432.81 Scheneitady Formation 168.8 169.0 1094.81 Canajoharie Shale 169.0 169.1 122.51 Canajoharie Shale 169.1 169.3 3543.62 Schenectady Formation 169.1 169.8 770.8 State Canajoharie Shale 170.8 170.9 344.81 Water Water 171.4 171.6 6640.7 Water 171.5 173.5 173.5 Normarkill Shale 171.7 173.5 9349.73 Schenectady Formation 173.5 173.5 9407.58 Normarkill Shale 173.5 173.5 173.9 1768.30 Schenectady Formation 173.9 179.0 0.75 Normarkill Shale Normarkill Shale 179.0 179.0 0.75 Normarkill Shale Normarkill Shale 179.0 179.0 0.83 Normarkill Shale Normarkill Shale 179.0 179.0 20558.15 Normarkill Shale Normarkill Shale			Identified Bedrock Geology (feet)	Description
168.8 169.0 1094.81 Canajoharis Shale 169.0 169.1 375.57 Sohenetady Formation 169.1 169.1 122.51 Canajoharie Shale 169.1 169.8 3543.82 Schenetady Formation 169.8 170.8 5496.84 Canajoharie Shale 170.8 170.9 344.81 Water 171.4 171.4 2784.44 Canajoharie Shale 171.6 171.7 679.55 Normankill Shale 171.7 173.5 9349.73 Schenetady Formation 173.5 173.5 407.58 Normankill Shale 173.5 173.5 407.58 Normankill Shale 173.9 179.0 0.75 Normankill Shale 173.0 179.0 0.75 Normankill Shale 179.0 179.0 0.75 Normankill Shale 179.0 179.0 0.85 Normankill Shale 179.1 179.0 0.85 Normankill Shale 179.1 199.1 20658.15<				Canajoharie Shale
169.0 169.1 375.57 Schenetady Formation 169.1 169.1 122.51 Canajoharie Shale 169.1 169.8 170.8 5496.84 Canajoharie Shale 170.8 170.9 344.81 Water 170.9 171.4 2784.44 Canajoharie Shale 171.6 171.7 679.55 Normanskill Shale 171.6 171.7 679.55 Normanskill Shale 171.5 173.5 9349.73 Schenetady Formation 173.5 173.5 173.5 Normanskill Shale 173.5 173.9 1768.30 Schenetady Formation 173.0 179.0 0.75 Normanskill Shale 179.0 179.0 0.85 Normanskill Shale 179.0 182.9 189.5 34741.20 Schenetady Formation 182.9 189.5 34741.20 Schenetady Formation 182.4 197.5 26925.23 Schenetady Formation 192.4 197.5 26925.23 Schenetady Formation <td></td> <td></td> <td></td> <td>Schenectady Formation</td>				Schenectady Formation
160.1 160.1 122.51 Canajoharie Shale 169.1 169.8 3643.62 Schenectady Formation 169.8 170.8 5496.64 Canajoharie Shale 170.9 171.4 Water Water 170.9 171.4 2784.44 Canajoharie Shale 171.6 171.7 679.55 Normaskil Shale 171.7 173.5 9349.73 Schemectady Formation 173.5 173.5 407.58 Normaskil Shale 173.5 173.9 1768.30 Schemectady Formation 173.5 173.9 1768.30 Schemectady Formation 173.9 179.0 0.75 Normanskil Shale 179.0 179.0 0.75 Normanskil Shale 179.0 179.0 0.85 Normanskil Shale 179.0 179.0 0.85 Normanskil Shale 179.0 189.5 34741.20 Schenectady Formation 182.4 192.4 152.4 Schenectady Formation 192.4 197.5				
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168.8 170.8 5496.84 Canajoharie Shale 170.8 170.9 344.81 Water 170.9 171.4 2784.44 Canajoharie Shale 171.4 171.6 864.07 Water 171.6 171.7 173.5 9349.73 Schenectady Formation 173.5 173.5 9349.73 Schenectady Formation 173.5 173.5 407.58 Normanskill Shale 173.5 173.9 179.0 Schenectady Formation 173.9 179.0 0.75 Normanskill Shale 179.0 179.0 0.75 Normanskill Shale 179.0 179.0 0.85 Normanskill Shale 179.0 179.0 0.85 Normanskill Shale 179.0 189.5 34741.20 Schenectady Formation 189.5 192.4 127 Schenectady Formation 192.4 197.5 26925.23 Schenectady Formation 197.5 199.1 8434.39 Normanskill Shale 201.1				
170.8 170.9 344.81 Water 170.9 171.4 2764.44 Canajoharie Shale 171.4 171.6 864.07 Water 171.6 171.7 679.55 Normanskii Shale 171.7 173.5 934.97.3 Schenedaty Formation 173.5 173.5 407.58 Normanskii Shale 173.5 173.9 1768.30 Schenedaty Formation 173.5 179.0 27056.42 Normanskii Shale 179.0 179.0 0.85 Normanskii Shale 179.0 179.0 0.85 Normanskii Shale 179.0 182.9 20656.15 Normanskii Shale 189.5 192.4 1538.15 Schenectaty Formation 192.4 192.4 127 Schenectaty Formation 192.4 192.4 127<				
170.9 171.4 2784.44 Canajoharie Shale 171.4 171.6 171.7 664.07 Water 171.6 171.7 173.5 9349.73 Scheneday Formation 173.5 173.5 9349.73 Scheneday Formation 173.5 173.5 173.5 Normanskil Shale 173.5 173.9 1768.30 Scheneday Formation 173.9 179.0 27056.42 Normanskil Shale 179.0 179.0 0.75 Normanskil Shale 179.0 179.0 0.85 Normanskil Shale 179.0 179.0 0.85 Normanskil Shale 179.0 189.5 34741.20 Scheneday Formation 182.9 189.5 34741.20 Scheneday Formation 192.4 192.4 127 Scheneday Formation 192.4 197.5 26925.23 Scheneday Formation 197.5 199.1 8434.39 Normanskil Shale 201.1 10478.49 Normanskil Shale 201.1				
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Sig	Table 4-1 Significant Natural Communities with the Potential to Occur along the				
Common Name	Underground Transmission Cable Construction Zone Description				
Upland Communities	Description				
Oak-Tulip Tree Forest	Occur on moist, well-drained, closed-canopy hardwood forests with codominating tulip tree and oak species at elevations between 10 feet and 1,360 feet. The subcanopy often includes flowering dogwood, and other understory associates include witch hazel (<i>Hamamelis virginiana</i>), sassafras (<i>Sassafras albidum</i>), and lowbush blueberry (<i>Vaccinium angustifolium, V. pallidum</i>).				
Wetland Communities					
Deep Emergent Marsh	Occur on mineral soils or fine-grained organic soils with water depths ranging from 6 inches to 6.6 feet (Edinger et. al., 2002). Emergent vegetation may include for example cattails (<i>Typha spp.</i>), bur-weeds (<i>Sparganium spp.</i>), bulrushes (<i>Scirpus spp.</i>) and bluejoint grass (<i>Calamagrostis canadensis</i>) (Edinger et al., 2002).				
Floodplain forest	Typically occur on mineral soils on low terraces of river floodplains and river deltas (Edinger et al., 2002). Tree species may include green ash (<i>Fraxinus pennsylvanicus</i>), cottonwood (<i>Populus deltoides</i>), cottonwood (<i>Populus deltoides</i>), red maple (<i>Acer rubrum</i>), silver maple (<i>Acer saccharinum</i>), American elm (<i>Ulmus americana</i> , box elder (<i>Acer negundo</i>), hickories (<i>Carya spp.</i>) burr oak (<i>Quercus macrocarpa</i>) and swamp white oak (<i>Quercus bicolor</i>). Shrubs included ironwood (<i>Carpinus carolinianus</i>), dogwoods (<i>Cornus spp.</i>) and speckled alder (<i>Alnus incana ssp rugosa</i>). Sensitive ferm (<i>Onoclea sensibilis</i>), cinnamon fern (<i>Osmunda cinnamomea</i>), goldenrods (<i>Soildago spp.</i>), ostrich fern (<i>Matteuccia struthiopteris</i>), and sedges (<i>Carex spp.</i>) are characteristic of the herbaceous layer (Edinger et al., 2002).				

Dresden to Whitehall (Route 22) Unnamed Tributary of Lake Champlain 65 102.1 Unnamed Tributary of Lake Champlain 68 102.4 Unnamed Tributary of Lake Champlain 68 104.8 Unnamed Tributary of Lake Champlain 68 104.2 Unnamed Tributary of Lake Champlain 68 105.1 Unnamed Tributary of Pases Brook 68 105.3 Unnamed Tributary of Pases Brook 68 106.6 Unnamed Tributary of Lake Champlain 68 106.6 Unnamed Tributary of Lake Champlain 68 107.6 Unnamed Tributary of Lake Champlain 68 108.0 Unnamed Tributary of Lake Champlain 68 108.1 Unnamed Tributary of Lake Champlain 68 108.9 Unnamed Tributary of Lake Champlain 68 109.1 Unnamed Tributary of Lake Champlain 68 109.2 Unnamed Tributary to Lake Champlain 68 109.1 Unnamed Tributary to Lake Champlain 68 109.2 Unnamed Tributary to Lake Champlain 68 109.2 Unnamed Tributary to Lake	umber ² 30-433 30-433 30-433 30-433 30-433 30-434 30-435	TBD TBD TBD TBD TBD	Classification ^{3,4}
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102.3 Unnamed Tributary of Lake Champlain 85 102.4 Unnamed Tributary of Lake Champlain 85 104.2 Unnamed Tributary of Lake Champlain 85 104.3 Chubb's Brook 85 105.1 Unnamed Tributary of Pease Brook 85 106.3 Long Pond Brook 85 106.6 Unnamed Tributary of Lake Champlain 85 106.6 Unnamed Tributary of Lake Champlain 85 107.6 Unnamed Tributary of Lake Champlain 85 108.0 Unnamed Tributary of Lake Champlain 85 108.1 Unnamed Tributary of Lake Champlain 85 108.9 Unnamed Tributary of Lake Champlain 85 109.1 Unnamed Tributary of Lake Champlain 85 109.2 Unnamed Tributary to Champlain Canal 8 115.2 Unnamed Tributary to Champlain Canal 8 115.2 Unnamed Tributary to Champlain Canal 8 115.2 Unnamed Tributary to Champlain Canal 16 117.5 Unnamed Tributary to Champlain Canal 16	30-433 30-433 30-433 30-433 30-434 30-435	TBD TBD TBD	D
102.4 Unnamed Tributary of Lake Champlain 85 103.8 Unnamed Tributary of Lake Champlain 85 104.8 Chubb's Brook 85 105.1 Unnamed Tributary of Pease Brook 85 105.3 Unnamed Tributary of Pease Brook 85 106.3 Long Pond Brook 85 106.6 Unnamed Tributary of Pease Brook 85 107.6 Unnamed Tributary of Lake Champlain 85 108.0 Unnamed Tributary of Lake Champlain 85 108.1 Unnamed Tributary of Lake Champlain 85 108.9 Unnamed Tributary of Lake Champlain 85 109.1 Unnamed Tributary of Lake Champlain 85 109.2 Unnamed Tributary to Champlain 85 109.9 Lake Champlain 85 109.9 Lake Champlain 85 117.5 Unnamed Tributary to Champlain Canal 8 117.5 Unnamed Tributary to Champlain Canal 8 117.5 Unnamed Tributary to Champlain Canal 8 117.8 Unnamed Tributary to Champlain Canal 8 117.8 Unnamed Tributary to	30-433 30-433 30-433 30-434 30-435	TBD TBD	D
103.8 Unnamed Tributary of Lake Champlain 85 104.2 Unnamed Tributary of Lake Champlain 85 105.1 Unnamed Tributary of Pease Brook 85 105.3 Unnamed Tributary of Pease Brook 85 106.6 Unnamed Tributary of Pease Brook 85 106.6 Unnamed Tributary of Lake Champlain 85 107.6 Unnamed Tributary of Lake Champlain 85 108.0 Unnamed Tributary of Lake Champlain 85 108.1 Unnamed Tributary of Lake Champlain 85 108.9 Unnamed Tributary of Lake Champlain 85 109.1 Unnamed Tributary of Lake Champlain 85 109.2 Unnamed Tributary of Lake Champlain 85 109.9 Lake Champlain 86 113.0 Unnamed Tributary to Champlain Canal E 113.0 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E	30-433 30-433 30-434 30-435	TBD	D
104.2 Unnamed Tributary of Lake Champlain 85 105.1 Unnamed Tributary of Pease Brook 85 105.3 Unnamed Tributary of Pease Brook 85 106.6 Unnamed Tributary of Lake Champlain 85 106.6 Unnamed Tributary of Lake Champlain 85 107.6 Unnamed Tributary of Lake Champlain 85 108.0 Unnamed Tributary of Lake Champlain 85 108.1 Unnamed Tributary of Lake Champlain 85 108.9 Unnamed Tributary of Lake Champlain 85 109.1 Unnamed Tributary of Lake Champlain 85 109.2 Unnamed Tributary of Lake Champlain 85 109.9 Lake Champlain 86 117.5 Unnamed Tributary to Champlain Canal B 117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E	30-433 30-434 30-435		D
104.8 Chub's Brook 85 105.1 Unnamed Tributary of Pease Brook 85 105.3 Unnamed Tributary of Lake Champlain 85 106.6 Unnamed Tributary of Lake Champlain 85 107.6 Unnamed Tributary of Lake Champlain 85 108.0 Unnamed Tributary of Lake Champlain 85 108.1 Unnamed Tributary of Lake Champlain 85 108.9 Unnamed Tributary of Lake Champlain 85 109.1 Unnamed Tributary of Lake Champlain 85 109.2 Unnamed Tributary of Lake Champlain 85 109.2 Unnamed Tributary to Champlain Canal B 113.0 Unnamed Tributary to Champlain Canal B 115.2 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E	30-434 30-435	TBD	<u>D</u>
105.1 Unnamed Tributary of Pease Brook 83 105.3 Unnamed Tributary of Pease Brook 83 106.6 Unnamed Tributary of Lake Champlain 83 106.6 Unnamed Tributary of Lake Champlain 83 108.0 Unnamed Tributary of Lake Champlain 83 108.1 Unnamed Tributary of Lake Champlain 83 108.2 Unnamed Tributary of Lake Champlain 83 109.1 Unnamed Tributary of Lake Champlain 83 109.2 Unnamed Tributary of Lake Champlain 83 109.2 Unnamed Tributary to Champlain Canal 8 113.0 Unnamed Tributary to Champlain Canal 8 115.2 Unnamed Tributary to Champlain Canal 8 115.2 Unnamed Tributary to Champlain Canal 8 115.3 Unnamed Tributary to Champlain Canal 8 117.5 Unnamed Tributary to Champlain Canal 8 119.3 Unnamed Tributary to Champlain Canal 18 119.3 Unnamed Tributary to Champlain Canal 12 119.3 Unnamed Tributary to Champlain Canal	30-435	TBD	C(T)
105.3 Unnamed Tributary of Pease Brook 83 106.6 Unnamed Tributary of Lake Champlain 83 107.6 Unnamed Tributary of Lake Champlain 83 108.0 Unnamed Tributary of Lake Champlain 83 108.1 Unnamed Tributary of Lake Champlain 83 108.9 Unnamed Tributary of Lake Champlain 83 109.1 Unnamed Tributary of Lake Champlain 83 109.2 Unnamed Tributary of Lake Champlain 83 109.9 Lake Champlain 83 109.2 Unnamed Tributary to Champlain Canal 8 113.0 Unnamed Tributary to Champlain Canal 8 115.2 Unnamed Tributary to Champlain Canal 8 117.5 Unnamed Tributary to Champlain Canal 8 119.1 Unnamed Tributary to Champlain Canal 18 119.3 Unnamed Tributary to Champlain Canal 12 119.3 Unnamed Tributary to Champlain Canal 12 119.3 Unnamed Tributary to Champlain Canal 121.4 119.3 Unnamed Tributary to Champlain Canal 122.5 <td></td> <td>TBD</td> <td>C(T)</td>		TBD	C(T)
106.3 Long Pond Brook 63 106.6 Unnamed Tributary of Lake Champlain 63 107.6 Unnamed Tributary of Lake Champlain 63 108.0 Unnamed Tributary of Lake Champlain 63 108.1 Unnamed Tributary of Lake Champlain 63 108.9 Unnamed Tributary of Lake Champlain 63 109.1 Unnamed Tributary of Lake Champlain 63 109.2 Unnamed Tributary of Lake Champlain 63 109.9 Lake Champlain 63 113.0 Unnamed Tributary to Champlain Canal B 115.2 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 119.1 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 121.4 Unnamed Tributary to Champlain Canal E 122.4 Unnamed Tributary to Champlain Canal E	30-435	TBD	C(T)
106.6 Unnamed Tributary of Lake Champlain 83 107.6 Unnamed Tributary of Lake Champlain 83 108.0 Unnamed Tributary of Lake Champlain 83 108.1 Unnamed Tributary of Lake Champlain 83 108.9 Unnamed Tributary of Lake Champlain 83 109.1 Unnamed Tributary of Lake Champlain 83 109.2 Unnamed Tributary of Lake Champlain 83 109.9 Lake Champlain 83 109.9 Lake Champlain Canal B 113.0 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 119.1 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 121.4 Unnamed Tributary to Champlain Canal E 122.4 Unnamed Tributary to Champlain Canal E 123.0 Haffway Creek E 125.5	30-436	TBD	D
107.6 Unnamed Tributary of Lake Champlain 83 108.0 Unnamed Tributary of Lake Champlain 83 108.1 Unnamed Tributary of Lake Champlain 83 109.1 Unnamed Tributary of Lake Champlain 83 109.2 Unnamed Tributary of Lake Champlain 83 109.9 Lake Champlain 83 109.9 Lake Champlain 83 113.0 Unnamed Tributary to Champlain Canal B 115.2 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 119.1 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 121.4 Unnamed Tributary to Champlain Canal E 122.4 Unnamed Tributary to Champlain Canal E 123.0 Halfway Creek E 125.5 Unnamed Tributary to Champlain Canal E 127.1	30-441	TBD	D
108.0 Unnamed Tributary of Lake Champlain 83 108.1 Unnamed Tributary of Lake Champlain 83 108.9 Unnamed Tributary of Lake Champlain 83 109.1 Unnamed Tributary of Lake Champlain 83 109.2 Unnamed Tributary of Lake Champlain 83 109.9 Lake Champlain 83 109.9 Lake Champlain Canal 8 Nitehall to Cementon (Railroad) 9 113.0 113.0 113.0 Unnamed Tributary to Champlain Canal 115.2 117.5 117.5 Unnamed Tributary to Champlain Canal 116.1 117.8 Unnamed Tributary to Champlain Canal 119.3 119.3 Unnamed Tributary to Champlain Canal 112.4 119.3 Unnamed Tributary to Champlain Canal 112.4 121.4 Unnamed Tributary to Champlain Canal 112.4 122.4 Unnamed Tributary to Champlain Canal 112.5 123.0 Halfway Creek 125.5 125.5 Unnamed Tributary to Champlain Canal 112.4 123.0 Halfway Creek 125.5 125.5 Unnamed Tributary to Champlain Canal </td <td>30-441</td> <td>TBD</td> <td>D</td>	30-441	TBD	D
108.1 Unnamed Tributary of Lake Champlain 83 108.9 Unnamed Tributary of Lake Champlain 83 109.1 Unnamed Tributary of Lake Champlain 83 109.2 Unnamed Tributary of Lake Champlain 83 109.9 Lake Champlain 83 113.0 Unnamed Tributary to Champlain Canal B 115.2 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 112.4 Unnamed Tributary to Champlain Canal E 122.4 Unnamed Tributary to Champlain Canal E 123.0 Halfway Creek E 125.5 Unnamed Tributary to Champlain Canal E 127.1 Unnamed Tributary to Champlain Canal E 128.0 Unnamed Tributary to Champlain Canal E 130.8 Unnamed Tributary to Champlain Canal E 131.7 Bond Creek E 132.0	30-441	TBD	D
108.9 Unnamed Tributary of Lake Champlain 83 109.1 Unnamed Tributary of Lake Champlain 83 109.2 Unnamed Tributary of Lake Champlain 83 109.9 Lake Champlain 83 113.0 Unnamed Tributary to Champlain Canal B 115.2 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 119.1 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 121.4 Unnamed Tributary to Champlain Canal E 122.4 Unnamed Tributary to Champlain Canal E 123.0 Halfway Creek E 125.5 Unnamed Tributary to Champlain Canal E 127.1 Unnamed Tributary to Champlain Canal E 130.8 Unnamed Tributary to Champlain Canal E 131.7 Bond Creek E 132.0 Unnamed Tributary to Champlain Canal E 135.0	30-441	TBD	D
109.1 Unnamed Tributary of Lake Champlain 83 109.2 Unnamed Tributary of Lake Champlain 83 109.9 Lake Champlain 83 Mhitehall to Cementon (Railroad) 8 113.0 Unnamed Tributary to Champlain Canal B 115.2 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 119.1 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 121.4 Unnamed Tributary to Champlain Canal E 122.4 Unnamed Tributary to Champlain Canal E 123.0 Halfway Creek E 125.5 Unnamed Tributary to Champlain Canal E 127.1 Unnamed Tributary to Champlain Canal E 130.8 Unnamed Tributary to Champlain Canal E 131.7 Bond Creek E 132.0 Unnamed Tributary to Champlain Canal E 135.0 Hudson River (East	30-441	TBD	D
109.2 Unnamed Tributary of Lake Champlain 83 109.9 Lake Champlain 83 Whitehall to Cementon (Railroad) 8 113.0 Unnamed Tributary to Champlain Canal B 115.2 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 119.1 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 122.4 Unnamed Tributary to Champlain Canal E 123.0 Halfway Creek E 125.5 Unnamed Tributary to Champlain Canal E 127.1 Unnamed Tributary to Champlain Canal E 130.8 Unnamed Tributary to Champlain Canal E 131.7 Bond Creek E 132.0 Unnamed Tributary to Champlain Canal E 135.0 Hudson River (West Channel) A 135.1 Hudson River (West Channel)	30-441	TBD	D
109.9 Lake Champlain 8 Whitehall to Cementon (Railroad) Unnamed Tributary to Champlain Canal B 113.0 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 121.4 Unnamed Tributary to Champlain Canal E 122.4 Unnamed Tributary to Champlain Canal E 123.0 Halfway Creek E 125.5 Unnamed Tributary to Champlain Canal E 128.0 Unnamed Tributary to Champlain Canal E 130.8 Unnamed Tributary to Champlain Canal E 131.7 Bond Creek E E 132.0 Unnamed Tributary to Champlain Canal E 131.7 Bond Creek E E 132.0 Unnamed Tributary to Champlain Canal E	30-441	TBD	D
Whitehall to Cementon (Railroad) Unnamed Tributary to Champlain Canal B 113.0 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 119.1 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 121.4 Unnamed Tributary to Champlain Canal E 122.4 Unnamed Tributary to Champlain Canal E 125.5 Unnamed Tributary to Champlain Canal E 125.8 Unnamed Tributary to Champlain Canal E 127.1 Unnamed Tributary to Champlain Canal E 130.8 Unnamed Tributary to Champlain Canal E 131.7 Bond Creek E E 132.0 Unnamed Tributary to Champlain Canal E 135.0 Hudson River (East Channel) A 135.2 Hudson River (East Channel)	330-10	Perennial	B
113.0 Unnamed Tributary to Champlain Canal B 115.2 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 119.1 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 121.4 Unnamed Tributary to Champlain Canal E 122.4 Unnamed Tributary to Champlain Canal E 123.0 Halfway Creek E 125.5 Unnamed Tributary to Champlain Canal E 125.8 Unnamed Tributary to Champlain Canal E 126.0 Unnamed Tributary to Champlain Canal E 130.8 Unnamed Tributary to Champlain Canal E 131.7 Bond Creek E E 132.0 Unnamed Tributary to Champlain Canal E 135.0 Hudson River (West Channel) A 135.2 Hudson River (West Channel) A			_
115.2 Unnamed Tributary to Champlain Canal E 117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 119.1 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 121.4 Unnamed Tributary to Champlain Canal E 122.4 Unnamed Tributary to Champlain Canal E 123.0 Halfway Creek E 125.5 Unnamed Tributary to Champlain Canal E 125.4 Unnamed Tributary to Champlain Canal E 125.5 Unnamed Tributary to Champlain Canal E 126.0 Unnamed Tributary to Champlain Canal E 137.1 Unnamed Tributary to Champlain Canal E 130.8 Unnamed Tributary to Champlain Canal E 131.7 Bond Creek E E 132.0 Unnamed Tributary to Champlain Canal E E 135.0 Hudson River (East Channel) A 135.2 Hudson River (East Channel) A </td <td>354-6A</td> <td>Perennial</td> <td>D</td>	354-6A	Perennial	D
117.5 Unnamed Tributary to Champlain Canal E 117.8 Unnamed Tributary to Champlain Canal E 119.1 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 121.4 Unnamed Tributary to Champlain Canal E 122.4 Unnamed Tributary to Champlain Canal E 123.0 Halfway Creek E 125.5 Unnamed Tributary to Champlain Canal E 127.1 Unnamed Tributary to Champlain Canal E 128.0 Unnamed Tributary to Champlain Canal E 130.8 Unnamed Tributary to Champlain Canal E 131.7 Bond Creek E E 132.0 Unnamed Tributary to Champlain Canal E 135.0 Hudson River (East Channel) A 135.2 Hudson River (Kest Channel) A 135.3 Unnamed Tributary to the Hudson River E 136.4 Unnamed Tributary to the Hudson River E 136.5 Unnamed Tributary to North Branch Snook Kill E	B54-3	Perennial	C
117.8 Unnamed Tributary to Champlain Canal E 119.1 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal E 121.4 Unnamed Tributary to Champlain Canal E 122.4 Unnamed Tributary to Champlain Canal E 123.0 Halfway Creek E 125.5 Unnamed Tributary to Champlain Canal E 125.8 Unnamed Tributary to Champlain Canal E 127.1 Unnamed Tributary to Champlain Canal E 128.0 Unnamed Tributary to Champlain Canal E 130.8 Unnamed Tributary to Champlain Canal E 131.7 Bond Creek E E 132.0 Unnamed Tributary to Champlain Canal E E 135.0 Hudson River (Kest Channel) A A 135.2 Hudson River (West Channel) A E 135.2 Unnamed Tributary to the Hudson River E E 136.2 Unnamed Tributary to the Hudson River E E 136.5	B53-2	Intermittent	D*
119.1 Unnamed Tributary to Champlain Canal E 119.3 Unnamed Tributary to Champlain Canal 119.3 119.3 Unnamed Tributary to Champlain Canal 121.4 Unnamed Tributary to Champlain Canal 122.4 Unnamed Tributary to Champlain Canal 122.4 Unnamed Tributary to Champlain Canal 123.0 Halfway Creek 125.5 Unnamed Tributary to Champlain Canal 125.8 Unnamed Tributary to Champlain Canal 127.1 Unnamed Tributary to Champlain Canal 128.0 Unnamed Tributary to Champlain Canal 130.8 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 133.8 Unnamed Tributary to Champlain Canal 135.0 Hudson River (West Channel) 135.2 Hudson River (West Channel) 135.3 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 1	B52-1	Intermittent	<u>D</u>
119.3 Unnamed Tributary to Champlain Canal 119.3 Unnamed Tributary to Champlain Canal 121.4 Unnamed Tributary to Champlain Canal 122.4 Unnamed Tributary to Champlain Canal 123.0 Halfway Creek 125.5 Unnamed Tributary to Champlain Canal 125.8 Unnamed Tributary to Champlain Canal 127.1 Unnamed Tributary to Champlain Canal 128.0 Unnamed Tributary to Champlain Canal 130.8 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 133.8 Unnamed Tributary to Champlain Canal 135.0 Hudson River (East Channel) 135.2 Hudson River (West Channel) 135.8 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to North Branch Snook Kill 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Rice Brook 142.9 Unnamed Tributary to Rice Brook	B48-1	Intermittent	 D*
119.3 Unnamed Tributary to Champlain Canal 121.4 Unnamed Tributary to Champlain Canal 122.4 Unnamed Tributary to Champlain Canal 123.0 Halfway Creek 125.5 Unnamed Tributary to Champlain Canal 125.8 Unnamed Tributary to Champlain Canal 127.1 Unnamed Tributary to Champlain Canal 128.0 Unnamed Tributary to Champlain Canal 130.8 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 135.8 Unnamed Tributary to Champlain Canal 135.0 Hudson River (East Channel) 135.8 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Rice Brook 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Rice Brook	F18	Intermittent	D*
121.4 Unnamed Tributary to Champlain Canal 122.4 Unnamed Tributary to Champlain Canal 123.0 Halfway Creek 125.5 Unnamed Tributary to Champlain Canal 125.8 Unnamed Tributary to Champlain Canal 127.1 Unnamed Tributary to Champlain Canal 128.0 Unnamed Tributary to Champlain Canal 130.8 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 135.0 Hudson River (East Channel) 135.2 Hudson River (West Channel) 135.2 Hudson River (West Channel) 136.2 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to Snook Kill 138.5 Unnamed Tributary to Rice Brook 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to Rice Brook 142.9 Unnamed Tributary to Rice Brook 142	F19	Intermittent	D*
122.4 Unnamed Tributary to Champlain Canal 123.0 Halfway Creek 125.5 Unnamed Tributary to Champlain Canal 125.8 Unnamed Tributary to Champlain Canal 127.1 Unnamed Tributary to Champlain Canal 128.0 Unnamed Tributary to Champlain Canal 130.8 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 135.0 Hudson River (East Channel) 135.2 Hudson River (West Channel) 135.8 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 138.5 Unnamed Tributary to Rice Brook 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to Rice Brook	F15	Intermittent	D*
123.0 Halfway Creek 125.5 Unnamed Tributary to Champlain Canal 125.8 Unnamed Tributary to Champlain Canal 127.1 Unnamed Tributary to Champlain Canal 128.0 Unnamed Tributary to Champlain Canal 130.8 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 135.0 Hudson River (East Channel) 135.2 Hudson River (West Channel) 135.8 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.3 Unnamed Tributary to the Hudson River 136.4 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Rice Brook 140.1 Snook Kill 142.9 Unnamed Tributary to Rice Brook 145.1<	F12	Perennial	D
125.5 Unnamed Tributary to Champlain Canal 125.8 Unnamed Tributary to Champlain Canal 127.1 Unnamed Tributary to Champlain Canal 128.0 Unnamed Tributary to Champlain Canal 130.8 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 135.0 Hudson River (East Channel) 135.2 Hudson River (West Channel) 135.8 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Rice Brook 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Rice Brook 145.1 Delegan Brook 145.0 Unnamed Tributary to Loughberry Lake/Spring Run <td>F11</td> <td>Perennial</td> <td>C</td>	F11	Perennial	C
125.8 Unnamed Tributary to Champlain Canal 127.1 Unnamed Tributary to Champlain Canal 128.0 Unnamed Tributary to Champlain Canal 130.8 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 135.0 Hudson River (East Channel) 135.2 Hudson River (West Channel) 135.8 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Rice Brook 140.1 Snook Kill 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Loughbery Lake/Spring Run	F8-1	Perennial	D
127.1 Unnamed Tributary to Champlain Canal 128.0 Unnamed Tributary to Champlain Canal 130.8 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 135.0 Hudson River (East Channel) 135.2 Hudson River (West Channel) 135.8 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Rice Brook 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run <td< td=""><td>F7</td><td>Intermittent</td><td>D*</td></td<>	F7	Intermittent	D*
128.0 Unnamed Tributary to Champlain Canal 130.8 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 135.0 Hudson River (East Channel) 135.2 Hudson River (West Channel) 135.8 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Rice Brook 140.1 Snook Kill 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Loughberry Lake/Spring Run 145.1 Delegan Brook 144.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/S	F5	Perennial	D
130.8 Unnamed Tributary to Champlain Canal 131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 135.0 Hudson River (East Channel) 135.2 Hudson River (West Channel) 135.8 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.3 Unnamed Tributary to the Hudson River 136.4 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Rice Brook 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Loughberry Lake/Spring Run 145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Geyser Brook	F2-2	Perennial	D C*
131.7 Bond Creek 132.0 Unnamed Tributary to Champlain Canal 135.0 Hudson River (East Channel) 135.2 Hudson River (West Channel) 135.8 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Snook Kill 140.1 Snook Kill 142.9 Unnamed Tributary to Rice Brook 144.0 Delegan Brook 144.1 Delegan Brook 145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 15	A55	Perennial	C*
132.0 Unnamed Tributary to Champlain Canal 135.0 Hudson River (East Channel) 135.2 Hudson River (West Channel) 135.8 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Snook Kill 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Rice Brook 145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 155.5 Unnamed Tributary to Geyser Brook	A33 A1	Perennial	C
135.0 Hudson River (East Channel) A 135.2 Hudson River (West Channel) A 135.8 Unnamed Tributary to the Hudson River A 136.2 Unnamed Tributary to the Hudson River A 136.5 Unnamed Tributary to the Hudson River A 136.6 Unnamed Tributary to the Hudson River A 136.6 Unnamed Tributary to the Hudson River A 136.8 Unnamed Tributary to the Hudson River A 137.9 North Branch Snook Kill A 138.5 Unnamed Tributary to North Branch Snook Kill A 139.9 Unnamed Tributary to Snook Kill A 140.1 Snook Kill A 142.9 Unnamed Tributary to Rice Brook A 143.6 Unnamed Tributary to Rice Brook A 144.1 Delegan Brook A 145.1 Delegan Brook A 145.1 Unnamed Tributary to Loughberry Lake/Spring Run A 150.0 Unnamed Tributary to Loughberry Lake/Spring Run A 150.5 Unnamed Tributary to Loughberry Lake/Spring Run A 150.6	A1 A2	Intermittent	D*
135.2 Hudson River (West Channel) A 135.8 Unnamed Tributary to the Hudson River A 136.2 Unnamed Tributary to the Hudson River A 136.5 Unnamed Tributary to the Hudson River A 136.6 Unnamed Tributary to the Hudson River A 136.6 Unnamed Tributary to the Hudson River A 136.8 Unnamed Tributary to the Hudson River A 137.9 North Branch Snook Kill B 138.5 Unnamed Tributary to North Branch Snook Kill B 139.9 Unnamed Tributary to Snook Kill B 140.1 Snook Kill B 142.9 Unnamed Tributary to Rice Brook B 143.6 Unnamed Tributary to Rice Brook B 144.6 Unnamed Tributary to Loughberry Lake/Spring Run B 150.0 Unnamed Tributary to Loughberry Lake/Spring Run B 150.5 Unnamed Tributary to Loughberry Lake/Spring Run B 150.6 Unnamed Tributary to Loughberry Lake/Spring Run B 150.5 Unnamed Tributary to Geyser Brook B 155.5 Unnamed Tributary to Geyser Brook	A11-1	Perennial	<u>C</u>
135.8 Unnamed Tributary to the Hudson River 136.2 Unnamed Tributary to the Hudson River 136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Snook Kill 140.1 Snook Kill 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Rice Brook 145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 155.5 Unnamed Tributary to Geyser Brook	A11-1 A11-2	Perennial	C
136.2 Unnamed Tributary to the Hudson River A 136.5 Unnamed Tributary to the Hudson River A 136.6 Unnamed Tributary to the Hudson River A 136.6 Unnamed Tributary to the Hudson River A 136.8 Unnamed Tributary to the Hudson River A 137.9 North Branch Snook Kill A 138.5 Unnamed Tributary to North Branch Snook Kill A 139.9 Unnamed Tributary to Snook Kill A 140.1 Snook Kill A 142.9 Unnamed Tributary to Rice Brook A 143.6 Unnamed Tributary to Rice Brook A 145.1 Delegan Brook A 149.6 Unnamed Tributary to Loughberry Lake/Spring Run A 150.0 Unnamed Tributary to Loughberry Lake/Spring Run A 150.6 Unnamed Tributary to Loughberry Lake/Spring Run A 150.6 Unnamed Tributary to Loughberry Lake/Spring Run A 155.5 Unnamed Tributary to Geyser Brook A	A14	Intermittent	C
136.5 Unnamed Tributary to the Hudson River 136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Snook Kill 140.1 Snook Kill 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Rice Brook 145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 153.8 Geyser Brook 155.5 Unnamed Tributary to Geyser Brook	A14 A17-1	Intermittent	D*
136.6 Unnamed Tributary to the Hudson River 136.8 Unnamed Tributary to the Hudson River 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Snook Kill 140.1 Snook Kill 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Rice Brook 145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 153.8 Geyser Brook 155.5 Unnamed Tributary to Geyser Brook	A19	Intermittent	D*
136.8 Unnamed Tributary to the Hudson River 137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Snook Kill 140.1 Snook Kill 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Rice Brook 145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 155.5 Unnamed Tributary to Loughberry Lake/Spring Run	A19 A21	Intermittent	C
137.9 North Branch Snook Kill 138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Snook Kill 140.1 Snook Kill 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Rice Brook 145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 155.5 Unnamed Tributary to Geyser Brook	A21 A24		 D*
138.5 Unnamed Tributary to North Branch Snook Kill 139.9 Unnamed Tributary to Snook Kill 140.1 Snook Kill 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Rice Brook 145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 155.5 Unnamed Tributary to Loughberry Lake/Spring Run	A24 A29	Intermittent Perennial	 C(T)
139.9 Unnamed Tributary to Snook Kill 140.1 Snook Kill 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Rice Brook 145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 155.5 Unnamed Tributary to Loughberry Lake/Spring Run	A29 A36	Intermittent	C(1)
140.1 Snook Kill 142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Rice Brook 145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 153.8 Geyser Brook 155.5 Unnamed Tributary to Geyser Brook	A30 A41	Perennial	C
142.9 Unnamed Tributary to Rice Brook 143.6 Unnamed Tributary to Rice Brook 145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 153.8 Geyser Brook 155.5 Unnamed Tributary to Geyser Brook	A41 A42		C
143.6 Unnamed Tributary to Rice Brook 145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 153.8 Geyser Brook 155.5 Unnamed Tributary to Geyser Brook		Perennial Perennial	C
145.1 Delegan Brook 149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 153.8 Geyser Brook 155.5 Unnamed Tributary to Geyser Brook	D7 D1		C
149.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 150.8 Geyser Brook 155.5 Unnamed Tributary to Geyser Brook	B38	Perennial Perennial	C
150.0 Unnamed Tributary to Loughberry Lake/Spring Run 150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 153.8 Geyser Brook 155.5 Unnamed Tributary to Geyser Brook			
150.5 Unnamed Tributary to Loughberry Lake/Spring Run 150.6 Unnamed Tributary to Loughberry Lake/Spring Run 153.8 Geyser Brook 155.5 Unnamed Tributary to Geyser Brook	B1	Perennial	A
150.6 Unnamed Tributary to Loughberry Lake/Spring Run 153.8 Geyser Brook 155.5 Unnamed Tributary to Geyser Brook	B2	Intermittent	A
153.8 Geyser Brook 155.5 Unnamed Tributary to Geyser Brook	B3-2	Intermittent	<u>A</u>
155.5 Unnamed Tributary to Geyser Brook E	B3-1	Intermittent	A
	B8-1	Perennial	C(T)
	B47-2	Intermittent	<u>C*</u>
, , ,	B47-1	Intermittent	C*
	B45-1	Intermittent	C
	B10-1	Intermittent	C
	B10-2	Intermittent	C
· · · · · · · · · · · · · · · · · · ·	B10-7	Perennial	C
	B23-3	Intermittent	С
159.7 Unnamed Tributary to Mourning Kill E 160.4 Unnamed Tributary to Mourning Kill E	B23-5	Intermittent Intermittent	D* D*

160.7	Waterbodies Crossed along the Underg Mourning Kill	B28	Perennial	С
161.2	Unnamed Tributary to Ballston Creek	B20 B30-2	Intermittent	D*
161.7	Unnamed Tributary to Ballston Creek	B30-2 B31-1	Intermittent	D*
161.8	Unnamed Tributary to Ballston Creek	B31-1 B32-1	Intermittent	D*
162.2	Unnamed Tributary to Ballston Lake	B32-1 B34-1	Intermittent	D*
162.6	Unnamed Tributary to Ballston Lake	B35-1	Intermittent	D*
163.1	Unnamed Tributary to Ballston Lake	C1	Perennial	C
163.7	Unnamed Tributary to Ballston Lake	C1		D*
			Intermittent	D*
163.9	Unnamed Tributary to Ballston Lake	C6	Intermittent	
164.1	Unnamed Tributary to Ballston Lake	C7	Intermittent	D* D*
164.2	Unnamed Tributary to Ballston Lake	C8-1	Intermittent	
164.3 164.5	Unnamed Tributary to Ballston Lake	C8-2 C8-3	Intermittent	<u> </u>
	Unnamed Tributary to Ballston Lake		Intermittent	D*
165.0	Unnamed Tributary to Ballston Lake	C13	Intermittent	
165.3	Unnamed Tributary to Ballston Lake	C18	Intermittent	<u> </u>
165.7	Unnamed Tributary to Alplaus Kill	C21	Intermittent	
166.2	Unnamed Tributary to Alplaus Kill	C25	Intermittent	D*
166.6	Unnamed Tributary to Alplaus Kill	C26	Perennial	C(T)
167.0	Unnamed Tributary to Alplaus Kill	C28	Intermittent	C(T)
167.2	Unnamed Tributary to Alplaus Kill	C29	Intermittent	D*
167.5	Unnamed Tributary to Alplaus Kill	C31	Intermittent	D*
168.4	Unnamed Tributary to Alplaus Kill	C36	Intermittent	D*
168.6	Alplaus Kill	C33	Perennial	B
169.0	Unnamed Tributary to Alplaus Kill	C38	Intermittent	С
169.5	Unnamed Tributary to Alplaus Kill	C39	Intermittent	D*
170.1	Unnamed Tributary to Mohawk River	C42-1	Intermittent	D*
170.2	Unnamed Tributary to Mohawk River	C42-2	Intermittent	D*
171.2	Unnamed Tributary to Mohawk River	C43	Intermittent	D*
171.6	Mohawk River	C43A	Perennial	A
174.9	Unnamed Tributary	C46	Intermittent	D*
174.9	Unnamed Tributary	C47	Intermittent	D*
175.0	Unnamed Tributary	C48	Intermittent	D*
175.0	Unnamed Tributary	C49	Intermittent	D*
175.1	Unnamed Tributary	C50	Intermittent	D*
175.1	Unnamed Tributary	C51	Intermittent	D*
175.1	Unnamed Tributary	C52	Intermittent	D*
175.1	Unnamed Tributary	C53	Intermittent	D*
175.2	Unnamed Tributary	C54	Intermittent	D*
175.2	Unnamed Tributary	C55	Intermittent	D*
180.1	Unnamed Tributary to Normans Kill	E9-1	Perennial	С
180.5	Unnamed Tributary to Normans Kill	E10-1	Perennial	C*
181.0	Unnamed Tributary to Normans Kill	E12-1	Perennial	С
181.1	Unnamed Tributary to Normans Kill	E14-1	Perennial	С
181.6	Unnamed Tributary to Watervliet Reservoir	E15-1	Perennial	С
182.0	Unnamed Tributary to Watervliet Reservoir	E95	Perennial	С
182.4	Unnamed Tributary to Watervliet Reservoir	E97	Perennial	С
183.7	Normans Kill	E74	Perennial	В
186.2	Unnamed Tributary to Black Creek	E21	Intermittent	C*
187.6	Unnamed Tributary to Vly Creek	E28	Perennial	C*
188.4	Vly Creek	E30	Perennial	C(TS)
189.6	Unnamed Tributary to Vloman Kill	E32	Perennial	С
190.0	Unnamed Tributary to Vloman Kill	E82-1	Intermittent	D*
190.9	Unnamed Tributary to Vloman Kill	E38	Perennial	С
191.1	Unnamed Tributary to Vloman Kill	E39-1	Intermittent	С
192.5	Unnamed Tributary to Vloman Kill	E50-2	Intermittent	D*
192.8	Unnamed Tributary to Vloman Kill	E86	Perennial	С
193.9	Unnamed Tributary to Coeymans Creek	E48-2	Intermittent	C*
194.2	Coeyman's Creek	863-543.1	TBD	С
196.3	Coeyman's Creek	863-543.1	TBD	С
196.4	Coeyman's Creek	863-543.1	TBD	С
200.7	Coeyman's Creek	863-543	TBD	C(TS)
202.0	Tributary to Coeyman's Creek	863-544	TBD	Ċ
203.5	Tributary to Hannacrois Creek	863-538	TBD	С
204.2	Tributary to Hannacrois Creek	863-538	TBD	С
204.6	Tributary to Hannacrois Creek	863-538	TBD	С

	Table 5-	1		
	Waterbodies Crossed along the Under	erground Transmission Ca	ble	
206.9	Tributary to Coxsackie Creek	863-504	TBD	С
207.7	Tributary to Coxsackie Creek	863-504	TBD	С
208.1	Tributary to Coxsackie Creek	863-504	TBD	С
208.4	Tributary to Coxsackie Creek	863-504	TBD	С
210.1	Tributary to Coxsackie Creek	863-504	TBD	С
210.3	Coxsackie Creek	863-502	TBD	С
214.5	Murders Creek	863-259.1	TBD	С
216.5	Tributary to Murders Creek	863-259.4	TBD	С
220.2	Tributary to Van Hozen Kill	863-103	TBD	С
220.5	Tributary to Van Hozen Kill	863-103	TBD	С
221.4	Catskill Creek	863-94	Perennial	С
222.6	Tributary to Hudson River	863-1	TBD	С
224.9	Tributary to Hudson River	863-1	TBD	С
Haverstraw Bay Bypass Ro	ute			
296.0	Tributary of Hudson River	864-546	TBD	SC / C
297.3	Lake Tiorati Brook	864-490	Perennial	SC / C(TS)
298.6	Miniscenongo Creek	864-493	TBD	SC / C
Hell Gate Bypass Route				
331.6	East River	935-1	Perennial	
Luyster Creek Converter St	ation			

No waterbodies within Study Area.

TBD=To be determined. Field identification and flow status for portions of the project along these segments will be determined during field surveys. ¹Field ID represents waterbodies verified during field surveys in 2010, and are denoted by an asterisk (*).

²Item number represents the identification of the waterbody put forth by the NYSDEC in Regulations under Chapter X – Division of Water. Available online at: http://www.dec.ny.gov/regs/2485.html

³NYSDEC 2007. Water Quality Classifications - NYS (NYSDEC) [Vector digital data]. Available online at:

http://www.nysgis.state.ny.us/gisdata/inventories/details.cfm?DSID=1118

⁴Use classification codes are as follows:

A= source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing; and suitable for fish, shellfish, and wildlife propagation and survival.

B=primary and secondary contact recreation and fishing; and suitable for fish, shellfish, and wildlife propagation and survival.

C= fishing; suitable for fish, shellfish, and wildlife propagation and survival. Water quality should be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.

D= fishing, however, natural conditions as intermittency of flow, stream bed conditions, or other water conditions may limit fish propagation. Water quality should be suitable for fish, shellfish, and wildlife survival and primary and secondary contact recreation, although other factors may limit the use for these purposes.

SC= saline surface waters; fishing; suitable for fish, shellfish, and wildlife propagation and survival. Water quality should be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.

I= saline surface waters; secondary contact recreation and fishing, These waters shall be suitable for fish, shellfish, and wildlife propagation and survival. *=waters not included in reference maps for water quality classification. These waters are assigned the same classification as the nearest downstream mapped segment (for perennial streams) or Class D (for intermittent streams).

(T)= trout waters.

(TS)= trout spawning waters.

Approximate MP	Waterbody Name	Item Number ¹	Flow Status	Water Quality
Dresden to Whitehall	(Poute 22)		1 1	Classification ^{2,3}
	Unnamed Tributary of Lake Champlain	830-433	TBD	D
	Unnamed Tributary of Lake Champlain	830-433	TBD	D
	Unnamed Tributary of Lake Champlain	830-433	TBD	D
	Unnamed Tributary of Lake Champlain	830-433	TBD	D
	Unnamed Tributary of Lake Champlain	830-433	TBD	<u>D</u>
	Chubb's Brook	830-434	TBD	C
	Unnamed Tributary to Pease Brook	830-435	TBD	C
	Pease Brook	830-435	TBD	C
	Long Pond Brook	830-436	TBD	D
	Unnamed Tributary of Lake Champlain	830-441	TBD	D
	Unnamed Tributary of Lake Champlain	830-441	TBD	D
	Unnamed Tributary of Lake Champlain	830-441	TBD	 D
	Unnamed Tributary of Lake Champlain	830-441	TBD	 D
	Unnamed Tributary of Lake Champlain	830-441	TBD	D
	Unnamed Tributary of Lake Champlain	830-441	TBD	D
	Unnamed Tributary of Lake Champlain	830-441	TBD	D
	Lake Champlain-South Bay	C (Portion 5)	Perennial	А
Selkirk to Cementon				
	Coeyman's Creek	863-543	TBD	С
	Unnamed Tributary to Coeyman's Creek	863-544	TBD	C
	Unnamed Tributary to Hannacrois Creek	863-538	TBD	C
	Unnamed Tributary to Hannacrois Creek	863-538	TBD	С
	Unnamed Tributary to Hannacrois Creek	863-538	TBD	С
	Hannacrois Creek	863-535	TBD	С
	Unnamed Tributary of Coxsackie Creek	863-504	TBD	С
	Unnamed Tributary of Coxsackie Creek	863-504	TBD	С
	Unnamed Tributary of Coxsackie Creek	863-504	TBD	С
	Unnamed Tributary of Coxsackie Creek	863-504	TBD	С
	Unnamed Tributary of Coxsackie Creek	863-504	TBD	С
	Coxsackie Creek	863-502	TBD	С
	Murders Creek	863-259.1	TBD	С
	Unnamed Tributary of Murders Creek	863-259.4	TBD	С
	Unnamed Tributary of Hans Vozen Kill	863-103	TBD	С
	Catskill Creek	863-94	Perennial	С
	Unnamed Tributary of Hudson River	863-1	TBD	С
	Unnamed Tributary of Hudson River	863-1	TBD	С
Haverstraw Bay Bypa	iss Route			
	Unnamed Tributary of Hudson River	864-546	TBD	SC/C
	Lake Tiorati Brook	864-490	Perennial	SC/C
	Miniscenongo Creek	864-493	TBD	SC/C
Hell Gate Bypass Rou	ute			
	East River	935-1	Perennial	I
Astoria to Rainey Ro	ute			
	NONE			
	d. Field identification and flow status for portions of the project			
	ts the identification of the waterbody put forth by the NYSDEC	C in Regulations under Cha	pter X – Division of W	later. Available online
http://www.dec.ny.gov/	regs/2485.html			
	r Quality Classifications - NYS (NYSDEC) [Vector digital data	J. Available online at:		
	e.ny.us/gisdata/inventories/details.cfm?DSID=1118			
³ Use classification cod			anadian and the la	and and the first of the
	pply for drinking, culinary or food processing purposes; primary	y and secondary contact re-	creation; and fishing;	and suitable for fish,
shellfish, and wildlife p	ary contact recreation and fishing; and suitable for fish, shellfi	ab and wildlife propagation	and oun inval	

although other factors may limit the use for these purposes. D= fishing, however, natural conditions as intermittency of flow, stream bed conditions, or other water conditions may limit fish propagation. Water quality should be suitable for fish, shellfish, and wildlife survival and primary and secondary contact recreation, although other factors may limit the use for these purposes.

SC= saline surface waters; fishing; suitable for fish, shellfish, and wildlife propagation and survival. Water quality should be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes.

I= saline surface waters; secondary contact recreation and fishing, These waters shall be suitable for fish, shellfish, and wildlife propagation and survival. (T)= trout waters.

(TS)= trout spawning waters.

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			ansmission Cable Construction Zone Total Temporary Impacts	within the Construction Zone
Approximate MP	Field Identification Number	NYSDEC Wetland Identification	Forested Wetland (square feet)	Non-Forested Wetland (square feet)
Presden to Whiteha	all (Route 22)		· · · · ·	
110.4	-	-	-	6819.3 ¹
111.5	-	-	-	2357.71
		Dresden	to Whitehall (Route 22) Subtotal:	9,177 square feet (0.2 acres)
Whitehall to Cemen			4002.0	000000
113.5 115.6	B54 B55	-	4003.9	206038.8 5356.8
117.5	B53	-	-	40602.9
117.8	B55 B52	-	-	5002.5
118.1	B51	-	-	64341.1
118.6	B50	-	-	433.0
119	B49	-	-	1140.3
118.9	B48	-	2282.9	16322.2
119.4	F19	-	155.0	-
119.7	F17	-	2244.6	36206.83
121.7	F14	-	2762.5	-
121.8	F13	-	4763.4	-
122	F12	-	13891.2	5048.7
122.8	F11	-	23480.3	-
123.2	F10	-	3336.4	-
123.5	F8	-	81326.8	42712.4
127.2	F4	-	-	52923.3
128.4	F2	-	-	46558.0
129.1 132.1	A54 A2	-	-	177329.9 76512.7
132.1	A2 A5	-	-	5454.5
133.6	A5 A6	-	372.6	-
135.8	A14	-	-	1288.3
135.9	A15	-	-	377.6
136	A16	-	766.2	-
136.1	A17	-	2096.8	-
136.7	A23	-	-	123.7
136.9	A24	-	-	2442.7
137.1	A26	-	1056.2	13007.8
137.8	A28	-	158.0	-
137.9	A30	-	-	1034.4
138.5	A36	-	-	406.7
139.8	A41	-	-	5081.7
141.3	A47	-	4567.5	-
141.4	A38	-	19172.0	28319.3
141.4	A48	-	404.0	- אקר ק
141.4 142.2	A49 A52	-	21767.1 1247.4	1755.7
142.2	A52 D7	-	-	8549.9
142.9	D7 D6	-	962.6	
143.1	D0	-	342.7	
143.2	D4 D3	-	17230.3	-
143.4	D2	-	732.0	-
145.9	B39	-	10361.2	-
149.5	B1	-	-	124.3
150.4	B3	-	565.7	31179.4
151.4	B4	-	-	15599.2
152.3	B5	-	-	190.9
152.8	B6	-	-	9927.7
154.9	D9	-	-	98941.5
155.5	B47	-	912.4	-
155.8	B45	-	14305.8	-
157	B44	-	12039.7	-
157.1	B41	-	11966.4	-
157.5	B10	-	23341.5	-
158.4	B17	-	4001.5	-
158.7 159	B16 B18	-	- 14919.1	- 19444.0

Wetlands along the Underground Transmission Cable Construction Zone Approximate Field Identification NYSDEC Wetland Total Temporary Impacts within the Construction				
Approximate MP	Number	Identification	Forested Wetland	Non-Forested Wetland
			(square feet)	(square feet)
159.1 159.3	B20 B21	-	-	<u>281.6</u> 801.6
159.5	B21 B23	-	-	3027.7
160.1	B25	-	12939.3	43472.6
160.7	B28	-	-	188.8
160.9	B29	-	-	1934.0
161.2	B30	-	-	15486.8
161.6	B31	-	-	19125.6
161.8	B32	-	-	11480.6
162.9	C1	-	-	36281.8
163.4	C4	-	-	6678.5
163.7	C5	-	-	1114.6
164.2	C8	-	-	28995.8
164.9 167.2	C15 c29	-	19129.3	- 2994.2
167.2	<u> </u>	-	-	
167.5	C35	-	-	8397.6
169.9	C42	-	-	34561.4
171.4	C44	-	-	282.7
174.8	C46	-	-	3316.9
175	C48	-	-	1022.7
175.3	C56	-	-	7690.1
178.4	E2	-	-	5568.7
178.8	E3	-	18082.7	16164.3
179.1	E4	-	-	26522.3
179.3	E5	-	14092.3	590.9
179.7 180	E7 E9	-	-	<u>12178.7</u> 65989.5
180.7	E9 E10	-	-	9243.6
180.8	E12	-	- 18117.6	
181.2	E12	-	16369.8	3722.4
182	E95	-	-	491.6
182.1	E96	-	208.5	4884.4
182.5	E97	-	-	1089.1
183.3	E80	-	-	1139.8
183.4	E79	-	6124.8	-
183.5	E77	-	-	5319.8
183.9	E75	-	1079.1	-
184.2 185.7	E17 E21	-	721.1 7773.7	13679.4 62951.1
186.5	E21	-	21385.2	28639.1
187.3	E24 E26	-	-	10535.6
187.5	E28	-	3897.0	19091.7
188	E29	-	991.8	7464.3
189.2	E31	-	-	2013.4
189.8	E33	-	1822.1	1309.5
190.4	E35	-	3111.5	-
190.6	E37	-	5330.6	-
191.1	E39	-	-	13814.1
191.5	E43	-	4450.0	1003.1
194	E51	-	-	9.8
194.1 194.1	E52 E59	-	-	972.5 1565.9
194.1	E59 E58	-	-	28325.1
194.4	E104	-	-	38523.2
197.2	E104	-	-	59460.8
216.4	-	HN-108	5635.0 ¹	244348.11-
219.4	-	-	-	912.01
221.3	-	-	-	12013.2 ¹
228.1	-	-	4525.2 ¹	-

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			ble 5-2	
	Wetlan	ds along the Underground T	ransmission Cable Construction Zon	e
Annrovimata	Field Identification	NYSDEC Wetland	Total Temporary Impacts	s within the Construction Zone
Approximate			Forested Wetland	Non-Forested Wetland
MP	Number	Identification	(square feet)	(square feet)
14/1-1			467,322.3 square feet	1,956,956 square feet
vvn	itehall to Cementon (Railroad	i) Subtotal:	(10.8 acres)	(44.9 acres)
Haverstraw Bay By	pass Route			
297.3	-	-	-	4961.3 ¹
297.4	-	HS-3	-	1989.1 ¹
297.6	-	-	-	1098.0 ¹
		Cubtotol		8,048.4 square feet
Hà	averstraw Bay Bypass Route	Sudiolai:	-	(0.2 acres)
Hell Gate Bypass R	loute			
		Ν	lone	
Luyster Creek Con	verter Station			
		Ν	lone	
¹ Estimated from exist	sting NYSDEC or NWI freshwa	ter wetlands mapping where f	ield delineated data is absent.	

		Table 6-1 Summary of Water Quality D	pata		
Survey/Study Name	Sample Locations (i.e., Hudson River)	Parameters Sampled	Sampling Date/Stations	Sample Depth	Description
U.S. Geological Survey	Oneida Lake, Erie Canal, Mohawk River, Lake Champlain, Champlain Canal, Hudson River	Temperature, DO, pH, Turbidity, Total Suspended Solids, Discharge, etc.	1951 – 2009 / 13 stations	0.1 – 80 ft	DO concentrations often approach saturation levels. Salinity is seasonally responsive to freshwater flow.
New York City Department of Environmental Protection	Hudson River, Harlem River, East River, Western Long Island Sound	Total suspended solids, Secchi depth, DO, salinity, temperature, Fecal coliform, chlorophyll-a	1909 – present / 7 stations	Near surface, near bottom	Coliform levels have declined and DO levels increased due to upgrades in wastewater treatment and CSO abatement
Interstate Environmental Commission (IEC)	Upper East River, Western Long Island Sound	Secchi depth, DO, temperature, salinity, chlorophyll-a, pH	1941 – present / 21 stations*	Near surface, mid depth, near bottom	Hypoxic conditions are prevalent at lower depths during summer and fall.
Connecticut Department of Environmental Protection (CTDEP) (Long Island Sound Study)	Western Long Island Sound	Total suspended solids, Secchi depth, DO, temperature, salinity, chlorophyll-a, nitrogen, phosphorus, etc.	1985 – present / 17 primary stations plus 25- 30 additional stations*	Near surface, near bottom	Low DO is the most frequent impairment of aquatic life.
Lake Champlain Basin Commission	Lake Champlain	Temperature, Dissolved Oxygen, Manganese, Iron, Total Dissolved Phosphate, Arsenic	1992 – present / 15 lake stations (long-term monitoring program), 1994-1995/ 5 stations (special studies)	All depths	River inflows and seasona patterns affect turbidity and suspended solids.
NYSDEC Rotating Intensive Basin Studies (RIBS)	Champlain Canal	TSS, Turbidity (other parameters will be available in spring 2010.)	2009	Near surface, near bottom	TSS and turbidity are generally well correlated. Limited data are available

				USGS W	/ater Quality D	Table Data from Lake		and Champlai	n Canal						
U.S.G.S. Gaging Station	Sampling Dates	Tempera	ature (°C)		d Oxygen g/l)	Dissolvec Saturati	,,	pl	Н	Turbidity	(NTU)	Total Sus Soli (mg	ds	Disch (ft³/	
		Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range
Ticonderoga (# USGS 04294408)	8/20/1969 - 6/18/1975	19.0	8.5-24	7.9	2.8-13.2	94.4	78-122	7.8	6.3-8.7	11.2	2-25	N)	N)
Whitehall (# USGS 04294402)	8/20/1969 - 6/18/1975	19.4	7.0-25.5	8.2	4.3-13	91.1	69-125	7.7	6.2-8.4	18.7	2-80	N)	NE)
Crown Point (# USGS 04294410)	8/20/1969 - 6/18/1975	19.0	9.0-25.0	8.4	2.8-12.8	92.9	84-115	7.8	6.5-8.5	14.9	2-35	N)	NE)
Port Henry (# USGS 04294412)	8/16/1974 - 10/28/1974	11.0	5.0-20.0	N	ID	N	D	7.6	7.6-7.6	10	5-20	N)	NE)
Source: http://ny.water ND – No Data Available															

						2008 La	Table 6-3 ke Champlaiı	n Data							
Station		Temperature			Chlorophyll-a			Dissolved Oxygen			Secchi Depth			Total Phosphorus	
	Average	Centigrade Maximum	Minimum	Average	μg/l Maximum	Minimum	Average	µg/l Maximum	Minimum	Average	Meters Maximum	Minimum	Average	µg/l Maximum	Minimum
02-South Lake B	19.9	25.1	6.3	6.7	14.7	1.7	ND	ND	ND	1.0	1.8	0.3	50.2	80.7	30.3
04-South Lake A	20.1	23.7	7.2	7.0	17.0	1.5	8.3	10.9	1.3	2.3	3.5	1.1	34.9	91.2	11.8
07-Port Henry Segment	18.0	23.5	7.5	5.3	13.5	1.6	10.2	12.2	7.2	3.6	4.8	2.4	19.0	34.2	11.2
09-Otter Creek Segment	18.4	22.8	8.9	4.6	7.8	2.0	ND	ND	ND	3.8	5.7	2.5	19.4	56.9	12.3
16-Shelburne Bay	19.3	23.1	10.3	3.6	5.8	1.3	ND	ND	ND	4.9	6.7	3.8	14.8	26.0	9.7
19-Main Lake	18.1	22.4	7.3	3.3	5.8	1.7	10.9	13.0	8.2	5.5	7.1	4.4	13.4	18.5	10
21-Burlington Bay	18.9	23.0	8.9	3.2	4.8	1.4	ND	ND	ND	5.5	7.8	3.4	13.7	22.9	8.4
25-Malletts Bay	19.4	23.8	8.0	3.1	4.9	1.5	8.2	12.2	1.2	4.3	6.5	3.0	12.4	22.1	8.6
33-Cumberland Bay	18.8	23.0	9.3	4.0	8.2	1.0	ND	ND	ND	4.3	7.1	2.8	14.9	18.3	10.5
34-Northeast Arm	19.0	23.2	8.0	4.3	9.6	1.3	8.3	13.6	1.8	5.3	8.0	2.9	22.0	33.9	13.4
36-Isle LaMotte (off Grand Isle)	18.7	22.8	9.6	3.3	7.4	1.2	10.4	12.6	7.4	5.1	7.0	3.5	13.4	20.7	8.8
40-St. Albans Bay	20.5	24.7	11.3	8.8	19.9	2.2	ND	ND	ND	2.8	5.2	1.6	28.1	38.6	19
46-Isle LaMotte (off Rouses Pt)	18.1	23.5	7.3	3.1	12.9	0.7	ND	ND	ND	5.6	6.8	3.0	16.0	28.7	7.8
50-Missisquoi Bay	18.9	24.2	6.5	18.1	72.6	1.1	ND	ND	ND	1.6	2.7	1.0	49.5	71.0	31.1
51-Missiquoi Bay Central	19.2	23.9	5.9	14.2	45.5	2.4	ND	ND	ND	1.7	3.5	1.0	51.5	80.7	31.1
ND = No Data.						•									

						2008 L	Table 6-4 ake Champla	ain Data							
	Net Phyto	plankton, Total Bi	ovolume		Total Nitrogen			Akalinity			Chloride		Dis	solved Phosph	orus
Station	Average	um³/l Maximum	Minimum	Average	mg/l Maximum	Minimum	Average	mg/l Maximum	Minimum	Average	mg/l Maximum	Minimum	Average	mg/l Maximum	Minimum
02-South Lake B	233,153,846	908,000,000	22,300,000	0.5	0.7	0.3	88.4	102.0	81.2	16.4	22.5	8.7	21.5	49.2	9.8
04-South Lake A	535,653,846	2,030,000,000	12,200,000	0.4	0.7	0.1	61.7	78.5	53.5	16.1	20.3	13.0	19.7	67.6	8.9
07-Port Henry Segment	181,567,000	581,000,000	6,570,000	0.4	0.5	0.4	53.1	54.5	51.8	14.6	15.4	13.8	11.1	17.3	5.0
09-Otter Creek Segment	182,288,889	692,000,000	7,700,000	0.4	0.6	0.3	52.3	55.1	49.5	14.4	15.2	12.8	10.4	20.4	5.3
16-Shelburne Bay	66,967,000	319,000,000	4,680,000	0.4	0.5	0.3	50.6	52.2	49.6	14.6	15.2	13.5	8.0	13.1	5.0
19-Main Lake	65,591,250	162,000,000	9,030,000	0.4	0.5	0.3	49.6	51.0	48.6	14.4	15.1	13.6	8.4	11.3	5.0
21-Burlington Bay	50,882,000	177,000,000	3,720,000	0.4	0.5	0.3	51.0	51.9	49.7	14.5	15.3	13.3	6.9	15.6	5.0
25-Malletts Bay	186,336,364	1,310,000,000	13,300,000	0.4	0.5	0.3	33.8	36.8	30.6	8.8	9.3	8.0	6.9	19.1	5.0
33-Cumberland Bay	88,774,556	484,000,000	861,000	0.4	0.5	0.3	46.1	48.7	44.4	14.0	14.6	13.1	7.4	9.5	5.4
34-Northeast Arm	185,141,818	577,000,000	4,060,000	0.4	0.8	0.3	48.0	49.2	47.5	9.2	9.5	8.7	13.1	28.2	5.2
36-Isle LaMotte (off Grand Isle)	115,500,000	437,000,000	14,700,000	0.4	0.5	0.3	47.4	49.1	45.8	14.0	14.9	13.0	7.5	11.3	5.2
40-St. Albans Bay	463,665,455	2,050,000,000	1,520,000	0.4	0.5	0.3	49.1	51.3	47.0	10.1	11.3	9.3	10.1	12.6	7.3
46-Isle LaMotte (off Rouses Pt)	29,806,273	78,200,000	208,000	0.4	0.5	0.2	47.3	48.5	45.0	12.5	14.1	4.3	9.4	14.1	5.8
50-Missisquoi Bay	307,620,833	1,670,000,000	1,250,000	0.6	1.0	0.4	38.6	47.7	30.9	6.2	7.7	3.6	20.2	44.6	13.9
51-Missiquoi Bay Central	336,342,500	1,890,000,000	1,560,000	0.6	1.3	0.4	42.5	47.5	35.8	6.7	8.0	5.2	22.1	40.4	10.8

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					USGS W	Table ater Quality D		dson River						
U.S.G.S. Gaging Station	Sampling Dates	Tempera	iture (°C)	Dissolvec (mç		Dissolved Saturati	50	p⊦	1	Turbidity (NTU)	Total Sus Soli (mg	ds		charge t³/s)
		Average	Range	Average	Range	Average	Range	Average	Range	Average Range	Average	Range	Average	Range
Green Island (# USGS 01358000)	6/27/1963-8/17/1994	13.1	0-27	10.5	5.1-15.7	98.2	77-131	7.3	4.2-8.3	ND	18	2-136	11,648.30	1,280-71,100
Glemount (# USGS 01359560)	4/15/1969-10/2/1992	12.1	0-29.4	10.3	4.6-15.4	91.8	53-115	7.3	6.2-8.8	ND	18.7	4-79	19,395.8	3,660-67,400
Poughkeepsie (# USGS 01372043)	4/14/1969-6/17/2000	17.4	0-27	7.9	5.4-13.6	79.4	0-104	7.4	5.9-7.9	ND	69.1	6-303		ND
South-of-Hastings on Hudson (# USGS 01376304)	4/16/1993-3/14/1995	16.2	2.4-26.4	9.1	5.4-14.7	95.8	86-111	7.3	6.9-7.8	ND	22.1	11-41		ND
Source: <u>http://ny.water.usg</u> ND – No Data Available.	<u>s/gov/</u>													

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			Table 6-6		
	Daily Freshwa	ter Flows (cfs) at Gree	en Island, New York fo	r the Period 1946-200	1
Month	Minimum	25th %	Median	75th %	Maximum
JAN	1,920	7,770	10,900	17,100	142,000
FEB	1,950	8,670	11,200	15,700	91,500
MAR	2,670	11,300	17,200	27,700	152,000
APR	4,800	18,600	27,900	39,600	132,000
MAY	1,770	9,855	15,500	23,950	104,000
JUN	1,610	5,700	7,920	12,700	117,000
JUL	1,340	4,277	5,490	7,642	66,700
AUG	1,650	4,097	5,200	6,680	44,500
SEP	882	4,200	5,400	7,228	63,100
OCT	1,490	5,140	6,800	10,100	101,000
NOV	1,740	7,140	11,200	17,775	94,600
DEC	1,640	9,072	13,200	18,600	141,000

	Table	6-7			
Median, Mean, and Range of Water	Quality Variable	s Sampled Durin	ig September-	October 200)0 (top
number) and	2001 (bottom nu	imber) in the Huc	Ison River		-
Parameter (mg/l)	Minimum	Maximum	Median	Mean	n
Ammonia Nitrogen	0.21	0.39	0.30	0.30	2
	0.3	3.8	0.45	1.15	6
Nitrate-Nitrite	0.55	0.88	0.64	0.65	72
	0.17	0.80	0.60	0.61	81
Nitrite	0.05	0.06	0.05	0.05	6
	0.05	0.15	0.09	0.09	44
Total Kjeldahl Nitrogen (TKN)	1.0	2.9	1.5	1.6	5
	0.01	6.2	2.1	2.36	22
Total Phosphate	0.01	0.96	0.13	0.15	141
	0.01	0.19	0.12	0.10	94
Orthophosphate	0.01	0.15	0.05	0.05	144
	0.01	0.18	0.09	0.08	96
Total Suspended Solids (TSS)	5	520	19	28.8	128
	5	370	33	53.7	131
All variables were sampled near bottom Adapted from Llanso et al. 2003.	۱.				

	NYCDEP Water Q		Table 6-8 er East River – W	estern Long Isla	Ind Sound		
Indicator	Position	Start Year	End Year	Minimum	Maximum	Average	Trend During Period
Dissolved Oxygen (mg/l)	Surface	1970	2008	3.1	6.4	4.9	Increased
	Bottom	1970	2008	2.9	4.9	4.3	Increased
Total Suspended Solids (mg/l)	Surface	1990	2008	1.2	5.0	2.7	Decreased
	Bottom	1991	2008	1.5	5.1	3.1	Decreased
Secchi Depth (ft)	N/A	1986	2008	3.3	6.1	4.9	Stable
Chlorophyll-a (µg/l)	Surface	1986	2008	4.5	25.6	11.0	Stable
Fecal Coliform (counts/100 ml)	Surface	1985	2008	17	342	95	Decreased
N/A = Not Applicable.							

			ble 6-9 ata Along Proposed Route		
Sediment Sampling Program and Date	Studies included in Program	Sample Locations	Parameters Sampled	Sample Size & Chemical Constituents	Core (C) or Surface Grab (SG)
Lake Champlain Basin Program	Burlington Harbor Surface Sample Location (1994)	Sections of Lake Champlain	Major and Trace elements, PCBs, PAHs,	Burlington Harbor (24 stations) – Trace metals and organics Burlington Bay (36 stations)	C. SG
1991 – 1992	Malletts Bay Survey		grain size.	Outer Mallets Bay (27 stations) - Trace metals	0,00
	Cumberland Bay Survey			Cumberland Bay (5 stations) – PCBs	
NY Canal Corporation 1991-2002	N/A	Champlain Canal	PCBs, metals, grain size, PAH, Pesticides, Dioxin/Furans, TOC	23 stations – PCBs and metals	unknown
Contamination Assessment and Reduction Project	Harbor Ambient Sediment Sampling Project (1998-1999)	Hudson River, Upper Bay, East	Polyaromatic Hydrocarbons (PAHs), PCBs, pesticides, Major and Trace	499 analytes at 84 stations. Not all analytes	С
(CARP) 1998 – 2001	Harbor Sediment Trackdown Sampling Project (2000-2001)	River, Harlem River	Elements, dioxin/furan, total organic carbon (TOC), percent solids/volatile solids, grain size.	sampled at all stations.	U
New York State Historic	Division of Water	Lake Champlain/ Richelieu River,	PAHs, PCBs, pesticides, Major and		
Sediment Inventory	Corps of Engineers (Batelle)	Hudson River, East River,	Trace Elements, dioxin/furan, grain size	713 analytes at 28 stations. Not all analytes sampled at all stations.	C, SG
1988 – 2007	Water Quality Network (RIBS)	Western Long Island Sound (LIS)	(3 stations).		
Regional Environmental	1993 – 1994	New York/New Jersey Harbor,	Polyaromatic Hydrocarbons (PAHs),	92 analytes at 56 sites.	
Monitoring and Assessment program (R-EMAP) 1993 – 1998	1998	Bight Apex. Includes Hudson and Upper East Rivers and Western LIS	pesticides, Major and Trace Elements, PCBs, dioxin/furan, grain size.	91 analytes at 28 sites.	SG
U.S. Geological Survey 1983 – 2005	USGS Survey	Hudson River	Major and Trace Elements, DDT and other pesticides, PCBs (not all analytes were sampled at all stations.)	Hudson River (11 stations), 218 analytes (not all analytes sampled at all stations)	SG
USEPA National Sediment Quality Survey Database 1980 – 1999	N/A	Hudson River Watershed, Hudson-Raritan Estuary, and Long Island Sound	PCBs, metals, grain size, PAH, pesticides, TOC, total inorganic carbon	Various PCB aroclors; percent sand, clay, silt, and gravel.	C, SG
USGS and CTDEP	Buchholtz ten Brink and Mecray 1998	Long Island Sound	Metals, grain size	219 stations – Trace metals	C, SG
Studies in Long Island Sound	Mecray et al. 2000	-	-	265 stations (46 new stations) – Trace metals	SG

		Samp	Table 6-1 les Collected by NYSDEC, exclu	-	MAP/R-EMAP			
Description of Source	County, State	Waterbody	Location	Number of Stations	Number of Samples	Sampling Equipment	Dates Sampled	Analytes Sampled
Water Quality Network (RIBS) after 12/98	Clinton, NY	Richelieu River	Richelieu R. in Rouses Point @ ~30 ft south of end of Lighthouse Marina Pier	1	1	Petit Ponar	11/1/1999	Metals, PAHs, PCBs, Pesticides, grain size, volatiles, nutrients
Water Quality Network (RIBS) after 12/98	Clinton, NY	Richelieu River	Rouses Pt., upstream of Rt. 2, approx. 30 ft. from Barcomb's Marina dock	1	1	Petit Ponar	8/10/2004	Metals, PAHs, PCBs, Pesticides, Dioxin/Furans
Div. of Water, Bureau of Watershed Assessment and Research	Clinton, NY	Lake Champlain	Lake Champlain, Cumberland Bay Core Sample	7	87	Core Tube	3/17/1994	PCBs, Pesticides, Dioxin/Furans, volatiles, nutrients
Div. of Water, Bureau of Watershed Assessment and Research	Greene, NY	Hudson River	Hudson River near Athens	1	5	Vibrocore	10/26/1998	Metals, PAHs, PCBs, Pesticides, Dioxin/Furans
Div. of Water, Bureau of Watershed Assessment and Research	Greene, NY	Hudson River	Hudson River, Inbocht Bay	1	5	Vibrocore	10/29/1998	Metals, PAHs, PCBs, Pesticides, Dioxin/Furans
Div. of Water, Bureau of Watershed Assessment and Research	Putnam, NY	Hudson River	Hudson River, Foundry Cove	1	8	Vibrocore	10/30/1998	Metals, PAHs, PCBs, Pesticides, Dioxin/Furans
Central Office, Div. Of Water	Rensselaer, NY	Hudson River	Hudson River,MP 152.6; Troy	1	1	Vibrocore	8/15/1995	Dioxin/Furans
Div. of Water, Bureau of Watershed Assessment and Research	Rensselaer, NY	Hudson River	Hudson River, Turning Basin at Rensselaer	1	7	Vibrocore	10/21/1998	Metals, PAHs, PCBs, Pesticides, Dioxin/Furans
Div. of Water, Bureau of Watershed Assessment and Research	Rockland, NY	Hudson River	Hudson River at lona Island	1	5	Vibrocore	10/30/1998	Metals, PAHs, PCBs, Pesticides, Dioxin/Furans
Water Quality Network (RIBS) after 12/98	Saratoga, NY	Hudson River	Waterford at SR 4	1	1	Teflon Scoop	9/7/2007	Metals, PAHs, PCBs, Pesticides, grain size, volatiles, nutrients
Water Quality Network (RIBS)	Saratoga, NY	Hudson River	U.HUDSON R. IN SCHUYLERVILLE @ RT.29 BR.	1	1		8/15/1988	Metals, PCBs, Pesticides, grain size
Div. of Water, Bureau of Watershed Assessment and Research	Ulster, NY	Hudson River	N/A	1	10	Vibrocore	4/22/1998	Metals, PAHs, PCBs, Pesticides, Dioxin/Furans, grain size, volatiles, nutrients
Central Office, Div. Of Water	Washington, NY	Hudson River	Hudson River,MP 188.6; Fort Edward	1	17	Vibrocore	5/8/1991 & 5/15/1991	Metals, Dioxin/furans

		Sample	Table 6-1 es Collected by NYSDEC, exclu		/AP/R-EMAP			
Description of Source	County, State	Waterbody	Location	Number of Stations	Number of Samples	Sampling Equipment	Dates Sampled	Analytes Sampled
Div. of Water, Bureau of Watershed Assessment and Research	Washington, NY	Hudson River	Hudson River at Easton	1	2	Core tube	11/20/1998	Metals, PCBs, Pesticides
Div. of Water, Bureau of Watershed Assessment and Research	Westchester, NY	Hudson River	Hudson River, Lent's Cove	1	4	Vibrocore	10/30/1998	Metals, PAHs, PCBs, Pesticides, Dioxin/Furans
IT Database, Corps of Engineers, Battelle	Bronx, NY	East River	N/A	3	4	Unknown	3/12/1990 & 5/12/1995	Metals, PAHs, PCBs, Pesticides
IT Database, Corps of Engineers, Battelle	Queens, NY	East River	N/A	1	1	Unknown	3/12/1990	Metals, PAHs, PCBs, Pesticides
IT Database, Landfill Sources	Bronx, NY	Long Island Sound	Unknown	1	3	Unknown	8/6/1992	Metals, Inorganics
N/A = Not Applicable.		•			•		•	

Chemical Analyte	and ER-M Concentrations for Common Analyte ER-L Concentration	ER-M Concentration
race Elements (ppm)	ER-E CONCENTRATION	
	2	25
Antimony		70
Arsenic Cadmium	<u>8.2</u> 1.2	9.6
	81	
Chromium	34	370
Copper		270
Lead	43.7	218
Mercury	0.15	0.71
Nickel	20.9	51.6
Silver	1	3.7
Zinc	150	410
DDT and Metabolites (pbb)		
DDT	1	7
DDD	2	20
DDE	2	15
Total DDT	1.58	46.1
Other Pesticides (ppb)		
Chlordane	0.5	6
Dieldrin	0.02	8
Endrin	0.02	45
Polynuclear Aromatic Hydrocarbons (ppb)		
Acenaphthene	16	500
Acenaphthylene	44	640
Anthracene	85.3	1100
Benzo(a)anthracene	261	1600
Benzo(a)pyrene	430	1600
Chrysene	384	2800
Dibenz(a,h)anthracene	63.4	260
Fluoranthene	600	5100
Fluorene	19	540
2-Methylnaphthalene	70	670
Naphthalene	160	2100
Phenanthrene	240	1500
Pyrene	665	2600
Total PAH	4022	44792

				Table					
Contoninont					uideline Exceedences Sa		ber-October 20 ER-M	00 and 2001 # Sites <u>></u> ER-L	# Cites . ED M
Contaminant Aluminum	Minimum 2540	Maximum 21000	Median 10350	Mean 10256.9	Number of detects 278	ER-L	ER-IVI	# Siles <u>></u> ER-L	# Sites <u>></u> ER-M
Arsenic	0.81	21000	6.8	7.2	270	- 8.2	- 70	97	- 0
Cadmium	0.06	11.2	0.0	1.2	126	<u> </u>	9.6	37	1
Chromium	5.4	11.2	33.6	38.1	278	81	9.6 370	11	0
	2.6	190	40.0	42.4	278	34	270	163	0
Copper Lead	6	189	39.2	42.4	278	46.7	210	118	0
Mercury	0.02	2	0.28	0.38	278	0.15	0.71	118	32
Nickel	5.4	46.3	22.5	215	251	20.9	51.6	197	0
Silver	0.08	40.3	1.2	1.5	278	20.9	3.7	135	16
Zinc	28.7	455	131.5	1.5	230	150	410	100	2
Acenaphthene	52	1100	93	289.4	5	150	500	5	1
	50	830	73	139.2		44	500 640		1
Acenaphthylene			125		13			13	1
Anthracene	62	1600		283.2	18	85.3	1100	13	
Benzo(a)anthracene	45	2300	100	176.4	85	261	1600	13	1
Benzo(a)pyrene	37	2300	110 120	174.1 184.7	98 69	430	1600	6	
Benzo(b)fluoranthene	54	1500				-	-	-	-
Benzo(k)fluoranthene	49	1000	110	163.4	72	-	-	-	-
Benzo(g,h,i)perylene	44	520	110	123.5	33	-	-	-	-
Chrysene	38	2000	110	178.7	93	384	2800	9	0
Dibenzo(a,h)anthracene	-	-	-	-	0	63.4	260	0	0
Fluoranthene	45	3000	120	218.9	133	600	5100	8	0
Fluorene	47	940	150	291.2	6	19	540	6	1
Indeno(1,2,3-cd)pyrene	45	250	89	104.8	25	-	-	-	-
2-Methylnaphthalene	-	-	-	-	0	70	670	0	0
Naphthalene	87	150	103	111.0	4	160	2100	0	0
Phenanthrene	43	4700	110	299.1	55	240	1500	17	1
Pyrene	34	5200	130	265.7	134	665	2600	11	1
Total PAH	50	27400	515	1159.5	148	4022	44792	8	0
Total PCBs	39	36000	120	726.8	71	22.7	180	71	15
Aldrin	24	24	24	24.0	1	-	-	-	-
alpha-BHC	-	-	-	-	0	-	-	-	-
beta-BHC	7	7	7	7.0	1	-	-	-	-
delta-BHC	-	-	-	-	0	-	-	-	-
gamma-BHC (Lindane)	26	26	26	26.0	1	-	-	-	-
Chlordane	-	-	-	-	0	-	-	-	-
alpha-Chlordane	-	-	-	-	0	-	-	-	-
gamma-Chlordane	-	-	-	-	0	-	-	-	-
4,4'-DDD	4	8	5	5.7	3	-	-	-	-
4,4'-DDE	-	-	-	-	0	2.2	27	0	0
4,4'-DDT	4	50	7.3	19.7	6	-	-	-	-
Total DDTs	6.7	58	8	22.6	6	1.58	46.1	6	2
Dieldrin	-	-	-	-	0	-	-	-	-
Endosulfan I	7.3	7.3	7.3	7.3	1	-	-	-	-
Endosulfan II	-	-	-	-	0	-	-	-	-
Endosulfan Sulfate	-	-	-	-	0	-	-	-	-
Endrin	-	-	-	-	0	-	-	-	-

Contaminant	Minimum	Maximum	Median	Mean	Number of detects	ER-L	ER-M	# Sites <u>></u> ER-L	# Sites > ER-M
Endrin aldehyde	-	-	-	-	0	-	-	-	-
Endrin ketone	-	-	-	-	0	-	-	-	-
Heptachlor	10	10	10	10.0	1	-	-	-	-
Heptachlor epoxide	-	-	-	-	0	-	-	-	-
Methoxychlor	-	-	-	-	0	-	-	-	-
Toxaphene	-	-	-	-	0	-	-	-	-

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Commission's Settlement Guidelines

Та	ble 7-1
Invasive Mollusk and Crustacean	Species in the Lake Champlain Basin
Mollusks	
banded mystery snail	Viviparus georgianus
big-ear radix	Radix auricularia
buffalo pebblesnail	Gillia altilis
chinese mysterysnail	Cipangopaludina chinensis
European fingernail clam	Sphaerium corneum
European stream valvata	Valvata piscinalis
globe siltsnail	Birgella subglobosa
greater European pea clam	Pisidium amnicum
mud bithynia	Bithynia tentaculata
sharp hornsnail	Pleurocera acuta
woodland pondsnail	Stagnicola catascopium
zebra mussel	Dreissena polymorpha
Crustaceans	
Allegheny crayfish	Orconectes obscurus
big river crayfish	Cambarus robustus
cyclopoid copepod	Thermocyclops crassus
gammarid amphipod	Gammarus fasciatus
rusty crayfish	Orconectes rusticus
water flea	Eubosmina coregoni

Summary of Benthic	Table Macrofauna Attributes by H	abitat During September	-October 2000 and 2001	
	in the Hud		Mar all and	Maaa
Habitat/Attribute Mesohaline (n = 56)	Minimum	Maximum	Median	Mean
	2	26	10	12
Number of species	136	39,591	1,739	4.553
Abundance (#/m ²)		,	,)
Biomass (g/m ²)	0.0182	21.4	<u>1.3</u> 2.4	2.8 2.4
Shannon diversity (log ₂)	0.6	3.5		
Polychaete abundance (%)	11.1	95.3 70.7	56.1	53.0
Oligochaete abundance (%)	0.0		10.4	18.4
Crustacean abundance (%)	0.0	21.4	2.5	3.9
Mollusc abundance (%)	0.0	66.7	10.2	15.4
Oligohaline (n = 83)			40	40
Number of species	2	21	10	10
Abundance (#/m ²)	386	8,295	2,136	2,612
Biomass (g/m ²)	0.0034	85.8	1.2	8.2
Shannon diversity (log ₂)	0.3	3.3	2.3	2.2
Polychaete abundance (%)	0.0	77.6	16.7	22.5
Oligochaete abundance (%)	0.0	100.0	20.7	23.9
Crustacean abundance (%)	0.0	77.1	11.8	16.7
Mollusc abundance (%)	0.0	85.0	19.4	24.9
Tidal Freshwater Mud (n = 84)				
Number of species	1	21	5	6
Abundance (#/m²)	68	14,614	1,295	1,670
Biomass (g/m ²)	0.0023	40.8	0.3	0.8
Shannon diversity (log ₂)	0.0	3.2	1.2	1.3
Polychaete abundance (%)	0.0	66.7	0.0	5.5
Oligochaete abundance (%)	0.0	100.0	76.2	68.9
Crustacean abundance (%)	0.0	72.3	1.4	6.2
Mollusc abundance (%)	0.0	66.7	4.4	10.4
Tidal Freshwater Sand (n – 55)				
Number of species	3	27	8	10
Abundance (#/m²)	295	18,477	3,727	5,131
Biomass (g/m ²)	0.0034	160.6	0.6	4.2
Shannon diversity (log ₂)	0.5	3.2	1.8	1.8
Polychaete abundance (%)	0.0	5.7	0.0	0.4
Oligochaete abundance (%)	3.4	94.1	43.6	46.8
Crustacean abundance (%)	0.0	93.7	18.6	24.9
Mollusc abundance (%)	0.0	42.3	0.3	6.0

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Commission's Settlement Guidelines

Habitat	Taxon Name	Total Abundance	Num. Occurrences	Average Abundance
	Sabellaria vulgaris	67681.6	13	1208.6
	Streblospio benediciti	35999.9	35	642.9
	Tubificoides spp.	30840.8	50	550.1
	Heteromastus filiformis	18795.4	55	335.6
	Mediomastus ambiseta	18022.7	10	321.8
	Polydora cornuta	12568.1	19	224.4
	Mulinia lateralis	7909.1	40	141.2
	Boccardiella ligerica	7386.3	7	131.9
	Marenzelleria viridis	6340.9	35	113.2
	Pygospio elegans Leucon americanus	5409.1 4500.0	23	96.0 80.4
	Carinoma tremaphoros	4090.9	41	73.1
	Neanthes succinea	3886.4	25	69.4
	Leptocheirus plumulosus	3863.6	5	69.0
	Macoma balthica	2931.8	26	52.4
	Mya arenaria	2795.4	18	49.9
	Tubificidae imm. without capilliform chaetae	2681.8	19	47.9
	Cyathura polita	2159.1	34	38.6
	Odostomia engonia	1863.6	16	33.3
	Leitoscoloplos spp.	1840.9	22	32.9
Mesohaline	Rangia cuneata	1363.6	6	24.4
n =56)	Rictaxis punctostriatus	1204.5	2	21.5
	Eteone heteropoda	977.3		17.5 16.6
				16.0
	Acteocina canaliculata931.82Diadumene leucolena909.12Glycera americana840.97Asabellides oculata772.76Ameroculodes species complex681.813Pectinaria gouldii568.27	15.0		
				13.8
	Asabellides oculata Ameroculodes species complex Pectinaria gouldii			12.2
				10.1
	Incisocalliope aestuarius	522.7	4	9.3
	Incisocalliope aestuarius Synidotea laticauda Apocorophium lacustre	409.1	11	7.3
		340.9	5	6.2
	Melita nitida	340.9	7	6.1
	Eumida sanguinea	318.2	2	5.7
	Ampelisca abdita Tellinidae	272.7 272.7	4	4.9
	Mytilus edulis	272.7 250.0	2	4.8
	Hobsonia florida	230.0	1	4.(
	Edotea triloba	181.8	5	3.2
	Tharyx	159.1	2	2.8
	Amphiporus cf. bioculatus	136.4	5	2.4
	Nemertina	136.4	3	2.4
	Stylochus ellipticus	136.4	4	2.4
	Unciola spp.	136.4	1	2.4
	Coelotanypus spp.	113.6	3	2.0
	Spiophanes bombyx	113.6	1	2.0
	Demonax microphthalmus	68.2	1	1.2
	Lepidonotus sublevis Monocorophium spp.	68.2 68.2	2	<u> </u>
	Nucula annulata	68.2	2	1.2
	Panopeus herbstii	68.2	2	1.2
	Ampelisca spp.	45.5	2	0.0
	Lyonsia hyalina	45.5	1	0.0
	Nassarius trivittatus	45.5	1	0.0
	Nephtyidae	45.5	2	0.
	Oxyurostylis smithi	45.5	1	0.
	Podarkeopsis levifuscina	45.5	2	0.
	Spiochaetopterus costarum	45.5	2	0.
	Unciola serrata	45.5	1	0.
	Almyracuma proximoculi	22.7	1	0.
	Ampharetidae	22.7	1	0.
	Cirratulidae	22.7	1	0.
	Dreissena polymorpha Libinia spp.	22.7	1	0.

Habitat	Taxon Name	Total	Num.	Average Abundance
	Littoridinops tenuipes			
	Loimia medusa			(
	Macoma mitchelli	22.7	1	(
	Mercenaria mercenaria	22.7	1	(
	Micrura leidyi	22.7	1	(
	Mytilopsis leucophaeata	22.7	1	(
	Phyllodoce arenae	22.7	1	(
	Podarke obscura		1	(
	Polypedilum halterale group		1	(
	Syllidae		1	(
	Turbellaria			(
	Unciola dissimilis			(
	Rangia cuneata			609
	Tubificoides spp.			54
	Leptocheirus plumulosus			367
o	Marenzelleria viridis			252
Oligohaline	Hobsonia florida		Abundance Occurrences 22.7 1 22.7 1 22.7 1 22.7 1 22.7 1 22.7 1 22.7 1 22.7 1 22.7 1 22.7 1 22.7 1 22.7 1 22.7 1 22.7 1	168
(n = 83)	Cyathura polita			110 109
	Coelotanypus spp.			
	Heteromastus filiformis Boccardiella ligerica			
	Carinoma tremaphoros			4
	Littoridinops tenuipes			39
	Leucon americanus			3
	Rheotanytarsus spp.			20
	Neanthes succinea			14
	Streblospio benedicti			1:
	Tubificidae imm. without capilliform chaetae			12
	Chironomidae pupae			1
	Ameroculodes species complex			1
	Anthozoa			1
	Rhithropanopeus harrisi		· · · · ·	
	Mya arenaria			8
	Polypedilum halterale group			8
	Edotea triloba	659.1	19	-
	Parachironomus hirtalatus	545.5	1	(
	Aulodrilus limnobius	500.0	2	(
	Macoma balthica	431.8	8	:
	Parachironomus monochromus/tenuicadatus group	363.6	2	
	Apocorophium lacustre		3	4
	Laeonereis culveri			
	Manayunkia aestuarina			
	Mulinia lateralis			
	Mytilopsis leucophaeata			
	Dicrotendipes spp.			
	Cricotopus spp.			
	Cryptochironomus spp.			
	Dreissena polymorpha			
	Limnodrilus hoffmeisteri			
	Synidotea laticauda			
	Polydora cornuta			
	Procladius spp.			
	Gammarus spp.			(
	Thienemannimyia group			
	Almyracuma proximoculi			
	Nais communis			
	Crangon septemspinosa			
	Harnischia spp.			
	Limnodrilus udekemianus Melita nitida			(
	Orthocladius spp.	22.7	1	
	Rhithropanopeus harrisii	22.7	1	

Habitat	List of Taxa Identified in the Hudson River E Taxon Name	Total Abundance	Num. Occurrences	Average Abundance
	Tubificidae imm. without capilliform chaetae	74954.3	82	892
idal Freshwater	Limnodrilus hoffmeisteri	17045.4	69	202
Mud	Gammarus spp.	9954.5	33	118
(n = 84)	Dreissena polymorpha	5113.6	10	60
	Marenzelleria viridis	4227.3	36	50
	Coelotanypus spp.	4045.4	54	48
	Limnodrilus udekemianus	3727.3	14	44
	Pisidium spp.	2590.9	28	30
	Littoridinops tenuipes	2363.6	17	28
	Musculium spp.	2363.6	21	28
	Sphaeridae	1886.4	13	22
	Rangia cuneata	1795.4	12	21
	Polypedilum halterale group	1204.5	16	14
	Cyathura polita	1045.5	22	12
	Tubificidae imm. with capilliform chaetae	795.5	9	ç
	Tribelos jucundus	727.3	2	8
	Chiridotea almyra	659.1	13	7
	Tubificoides spp.	568.2	7	6
	Cryptochironomus spp.	500.0	15	6
	Tanytarsus spp.	477.3	7	Ę
	Turbellaria	477.3	12	5
	Ferrissia spp.	431.8	2	5
	Rheotanytarsus spp.	340.9	3	4
	Aulodrilus americanus	227.3	3	2
	Harnischia spp.	227.3	8	2
	Polypedilum scalaenum group	204.5	3	2
	Stitctochironomus caffrarius group	204.5	4	2
	Oecetis spp.	181.8	6	2
	Hydracarina	136.4	1	1
	Amnicola limosa	113.6	3	1
	Ilyodrilus templetoni	113.6	3	1
	Procladius spp.	113.6	3	1
	Aulodrilus limnobius	90.9	1	1
	Chironomus	90.9	2	1
	Polypedilum illinoense group Stictochironomus caffrarius group	90.9 90.9	2	1
		68.2	2	(
	Dicrotendipes spp. Edotea triloba	68.2		(
	Enchytraeidae	68.2	3	(
	Paralauterborniella nigrohalterale	68.2	2	(
	Synidotea laticauda	68.2	1	(
	Ameroculodes species complex	45.5	2	(
	Aneroculoues species complex Apocorophium lacustre	45.5	2	(
	Aulodrilus pigueti	45.5	1	(
	Ceraclea spp.	45.5	1	(
	Chironomidae pupae	45.5	2	(
	Cladopelma spp.	45.5	1	(
	Hobsonia florida	45.5	1	(
	Leptocherius plumulosus	45.5	2	(
	Nais simplex	45.5	1	(
	Planorbidae	45.5	1	(
	Polypedilum spp.	45.5	2	(
	Potamothrix moldaviensis	45.5	1	(
	Probezzia spp.	45.5	1	(
	Axarus spp.	22.7	1	(
	Bezzia/Palpomyia group	22.7	1	(
	Gomphidae	22.7	1	(
	Hirudinea	22.7	1	(
	Mytilidae	22.7	1	(
	Nanocladius distinctus	22.7	1	(
	Nemertina	22.7	1	(
	Polydora cornuta	22.7	1	(
	Unionidae	22.7	1	(

Habitat	List of Taxa Identified in the Hudson River E Taxon Name	Total	Num.	Average
	Commonus opp	Abundance 90886.1	Occurrences	Abundance 1652.5
	Gammarus spp. Tubificidae imm. without capilliform chaetae	78090.7	51 55	1419.8
	Polypedilum halterale group	34499.9	44	627.
	Limnodrilus hoffmeisteri	15863.6	32	288.4
	Dreissena polymorpha	12522.7	16	227.1
	Cyathura polita	4886.3	34	88.8
	Ferrissia spp.	4204.5	9	76.4
	Tubificidae imm. with capilliform chaetae	3818.2	20	69.4
	Piguetiella michiganensis	3613.6	13	65.7
	Limnodrilus udekemianus	3159.1 2931.8	19	57.4
	Pisidium spp. Aulodrilus pigueti	2931.8	16 9	53.3 40.5
	Tanytarsus spp.	1886.4	12	34.3
Tidal Freshwater	Turbellaria	1818.2	30	33.2
Sand	Aulodrilus limnobius	1590.9	9	28.9
(n = 55)	Cryptochironomus spp.	1431.8	19	26.0
	Littoridinops tenuipes	1409.1	1	25.6
	Potamothrix moldaviensis	1340.9	13	24.4
	Coelotanypus spp.	1227.3	15	22.3
	Manayunkia aestuarina	1136.4	9	20.7
	Polypedilum scalaenum group	1068.2	9	19.4
	Rheotanytarsus spp. Sphaeridae	931.8 886.4	6	16.9 16.2
	Potamothrix vejdovskyi	727.3	5	10.
	Tribelos jucundus	727.3	5	13.2
	Procladius spp.	704.5	5	12.8
	Chironomidae pupae	613.6	12	11.2
	Thienemannimyia group Chiridotea almyra	590.9	3	10.7
		522.7	9	9.5
	Oecetis spp.	522.7	8	9.5
	Arcteonais Iomondi	409.1	4	7.4
	Ilyodrilus templetoni	363.6	6	6.6
	Stylaria lacustris	363.6 363.6	4	6.6
	Musculium spp. Stictochironomus caffrarius group	340.9	3	6.6 6.2
	Harnischia spp.	318.2	8	5.8
	Hexagenia spp.	318.2	5	5.8
	<i>Gyraulus</i> spp.	227.3	5	4.1
	Probezzia spp.	227.3	7	4.1
	Enchytraeidae	227.3	2	4.1
	Polypedilum illinoense group	227.3	3	4.1
	Unionidae	204.5	6	3.7
	Laevapex fuscus	204.5	2	3.7
	Hydracarina	181.8 181.8	3	3.3
	Paralauterborniella nigrohalterale Rangia cuneata	159.1	5	3.3
	Aulodrilus americanus	136.4	3	2.3
	Dero spp.	136.4	1	2.5
	Polypedilum spp.	136.4	2	2.5
	Cricotopus spp.	113.6	3	2.1
	Phylocentropus spp.	113.6	2	2.1
	Tubificoides spp.	113.6	3	2.
	Bezzia/Palpomyia group	90.9	1	1.
	Dicrotendipes neomodestus	90.9	1	1.
	Nemertina	90.9	4	1.
	Physella	90.9	2	1.
	Caecidotea	68.2	2	1.
	Stenelmis spp.	68.2 45.5	3	<u> </u>
	Ablabesmyia mallochi Ablabesmyia monilis	45.5	1	0.
	Ablabesmyla monilis Aeolosoma spp.	45.5	1	0.
	Demicryptochironomus spp.	45.5	2	0.
	Dero nivea	45.5	1	0.
	Heteromastus filiformis	45.5	1	0.

Habitat	Taxon Name	Total Abundance	Num. Occurrences	Average Abundance
	Hydrobiidae	45.5	1	Abunuanc
	Marenzelleria viridis	45.5	1	
	Nais simplex	45.5	1	
	Quistadrilus multisetosus	45.5	1	
	Rhyacodrilus	45.5	1	
	Thienemanniella spp.	45.5	1	
	Almyracuma proximoculi	22.7	1	
	Ameroculodes species complex	22.7	1	
	Ceraclea spp.	22.7	1	
	Ceratopogonidae	22.7	1	
	Chironomus	22.7	1	
	Cricotopus/Orthocladius spp.	22.7	1	
	Dicrotendipes spp.	22.7	1	
	Dubiraphia	22.7	1	
	Heptageniidae	22.7	1	
	Hirudinea	22.7	1	
	Stempellina spp.	22.7	1	
	Valvata sincera	22.7	1	

Summary of Macroinvertebrate Sampling	ole 7-4 g Across Haverstraw Bay for the Proposed Pipeline Project
Species	Number Collected
Mulinia lateralis	85
Spionidae	26
Chironomidae	10
Cyathura polita	6
Gammaridae	6
Ampharetidae	5
Oligochaeta	3
Mytilus edulis	2
Hirudinea	1
Idotea sp.	1

	Table 7-5		
	Fish of the Lake Champlain Basin		
Common Name	Scientific Name	Native	In LC
Alewife	Alosa pseudoharengus	No	Yes
Blueback Herring	Alosa aestivalis	No	Yes
Gizzard Shad	Dorosoma cepedianum	No	Yes
Atlantic Salmon	Salmo salar	Yes	Yes
Brown Trout	Salmo trutta	No	Yes
Brook Trout	Salvelinus fontinalis	Yes	Yes
Lake Trout	Salvelinus namaycush	Yes	Yes
Rainbow Trout	Oncorhynchus mykiss	No	Yes
Lake Whitefish	Coregonus clupeaformis	Yes	Yes
Cisco	Coregonus artedi	Yes	Yes
Rainbow Smelt	Osmerus mordax	Yes	Yes
American Eel	Anguilla rostrata	Yes	Yes
Sea Lamprey	Petromyzon marinus	Yes/No	Yes
American Brook Lamprey	Lampetra appendix	Yes	Yes
Silver Lamprey	Ichthyomyzon unicuspis	Yes	Yes
Lake Sturgeon	Acipenser fulvescens	Yes	Yes
Largemouth Bass	Micropterus salmoides	Yes	Yes
Rock Bass	Ambloplites rupestris	Yes	Yes
Smallmouth Bass	Micropterus dolomieu	Yes	Yes
Bluegill	Lepomis macrochirus	Yes	Yes
Pumpkinseed	Lepomis gibbosus	Yes	Yes
Black Crappie	Pomoxis nigromaculatus	Yes	Yes
White Crappie	Pomoxis annularis	No	Yes

Common Name	Scientific Name	Native	In LC
Brown Bullhead	Ameiurus nebulosus	Yes	Yes
Channel Catfish	Ictalurus punctatus	Yes	Yes
Bowfin	Amia calva	Yes	Yes
Butbot	Lota lota	Yes	Yes
Common Carp	Cyprinus carpio	No	Yes
Tench	Tinca tinca	No	Yes
Rudd	Scardinius erythrophthalmus	No	Yes
Longnose Dace	Rhinichthys cataractae	Yes	Yes
Fallfish	Semotilus corporalis	Yes	Yes
Bluntnose Minnow	Pimephales notatus	Yes	Yes
Fathead Minnow	Pimephales promelas	Yes	Yes
Blackchin Shiner	Notropis heterodon	Yes	Yes
Bridle Shiner	Notropis bifrenatus	Yes	Yes
Common Shiner	Luxilus cornutus	Yes	Yes
Emerald Shiner	Notropis atherinoides	Yes	Yes
Golden Shiner	Notemigonus crysoleucas	Yes	Yes
Mimic Shiner	Notropis volucellus	Yes	Yes
Rosyface Shiner	Notropis rubellus	Yes	Yes
Sand Shiner	Notropis stramineus	Yes	Yes
Spotfin Shiner	Cyprinella spiloptera	Yes	Yes
Spottail Shiner	Notropis hudsonius	Yes	Yes
Eastern Sand Darter	Ammocrypta pellucidum	Yes	Yes
Tessellated Darter	Etheostoma olmstedi	Yes	Yes
Sauger	Sander canadense	Yes	Yes
Yellow Perch	Perca flavescens	Yes	Yes
Walleye	Sander vitreum	Yes	Yes
Logperch	Percina caprodes	Yes	Yes
Muskellunge	Esox masquinongy	Yes	Yes
Chain Pickerel	Esox niger	Yes	Yes
Northern Pike	Esox lucius	Yes	Yes
Quillback	Carpiodes cyprinus	Yes	Yes
Greater Redhorse	Moxostoma valenciennesi	Yes	Yes
Shorehead Redhorse	Moxostoma macrolepidotum	Yes	Yes
Silver Redhorse	Moxostoma anisurum	Yes	Yes
Longnose Sucker	Catostomus catostomus	Yes	Yes
White Sucker	Catostomus commersoni	Yes	Yes
Freshwater Drum	Aplodinotus grunniens	Yes	Yes
Longnose Gar	Lepisosteus osseus	Yes	Yes
Banded Killfish	Fundulus diaphanus	Yes	Yes
Mottled Sculpin	Cottus bairdi	Yes	Yes
Slimy Sculpin	Cossus cognatus	Yes	Yes
Mooneye	Hiodon tergisus	Yes	Yes
Central Mudminnow	Umbra limi	Yes	Yes
White Perch	Morone americana	No	Yes
Brook Silverside	Labidesthes sicculus	No	Yes
Trout-Perch	Percopsis omiscomaycus	Yes	Yes
rce: Lake Champlain Basin Comm	ission 2006		

Fishes F	Table 7-6 Reported from the Lower Hudson Riv	er Drainage from	1970 to 2003	
Common Name	Scientific Name	Distril	oution	Life History
Common Name	Scientific Name	Lower	Upper	Life History
Sea Lamprey	Petromyzon marinus	Х	X	Anadromous
Shortnose Sturgeon	Acipenser brevirostrum	Х		Anadromous
Atlantic Sturgeon	Acipenser oxyrinchus	Х		Anadromous
Longnose Gar	Lepisosteus osseus	Х		Freshwater
American Eel	Anguilla rostrata	Х	Х	Catadromous
Conger Eel	Conger oceanicus	Х		Marine
Blueback Herring	Alosa aestivalis	Х		Anadromous
Hickory Shad	Alosa mediocris	Х		Marine

	Reported from the Lower Hudson Rive	<u> </u>	bution	
Common Name	Scientific Name	Lower	Upper	Life History
Alewife	Alosa pseudoharengus	Х		Anadromous
American Shad	Alosa sapidissima	Х		Anadromous
Atlantic Menhaden	Brevoortia tyrannus	Х		Marine
Gizzard Shad	Dorosoma cepedianum	Х		Freshwater
Striped Anchovy	Anchoa hepsetus	Х		Marine
Bay Anchovy	Anchoa mitchilli	X		Estuarine
Goldfish	Carassius auratus	X		Freshwater
Grass Carp	Ctenopharyngodon idella	X	, , , , , , , , , , , , , , , , , , ,	Freshwater
Spotfin Shiner	Cyprinella spiloptera	X	X	Freshwater
Common Carp	Cyprinus carpio	X	X	Freshwater
Cutlip Minnow	Exoglossum maxillingua	X	X	Freshwater
Brassy Minnow	Hybognathus hankinsoni	X	X	Freshwater
Eastern Silvery Minnow Common Shiner	Hybognathus regius Luxilus cornutus	X	X	Freshwater Freshwater
Golden Shiner		X	X	Freshwater
Comely Shiner	Notemigonus crysoleucas Notropis amoenus	X	^	
Emerald Shiner	Notropis atherinoides	X	Х	Freshwater Freshwater
Bridle Shiner	1	X	X	
Spottail Shiner	Notropis bifrenatus Notropis hudsonius	X	X	Freshwater Freshwater
Rosyface Shiner	Notropis rubellus	X	X	Freshwater
Bluntnose Minnow	Pimephales notatus	X	X	Freshwater
Fathead Minnow	Pimephales promelas	X	X	Freshwater
Blacknose Dace	Rhinichthys atratulus	X	X	Freshwater
Longnose Dace	Rhinichthys cataractae	X	X	Freshwater
Rudd	Scardinius erythrophthalmus	X	^	Freshwater
Creek Chub	Semotilus atromaculatus	X	Х	Freshwater
Fallfish	Semotilus corporalis	X	X	Freshwater
White Sucker	Catostomus commersonii	X	X	Freshwater
Northern Hog Sucker	Hypentelium nigricans	X	^	Freshwater
Shorthead redhorse	Moxostoma macrolepidotum	X		Freshwater
White Catfish	Ameiurus catus	X		Freshwater
Yellow Bullhead	Ameiurus natalis	X	Х	Freshwater
Brown Bullhead	Ameiurus nebulosus	X	X	Freshwater
Channel Catfish	Ictalurus punctatus	X	~	Freshwater
Redfin Pickerel	Esox americanus	X	Х	Freshwater
Northern Pike	Esox lucius	Х	Х	Freshwater
Chain Pickerel	Esox niger	Х	Х	Freshwater
Central Mudminnow	Umbra limi	Х		Freshwater
Eastern Mudminnow	Umbra pygmaea	Х		Freshwater
Sockeye Salmon	Onchorhynchus nerka	Х		Freshwater
Atlantic Salmon	Salmo salar	Х	Х	Freshwater
Brown Trout	Salvelinus fontinalis	Х	Х	Freshwater
Inshore lizardfish	Synodus foetens	Х		Marine
Trout-Perch	Percopsis omiscomaycus	Х	Х	Freshwater
Fourbeard Rockling	Enchelyopus cimbrius	Х		Marine
Silver Hake	Merluccius bilinearis	Х	1	Marine
Atlantic Tomcod	Microgadus tomcod	Х		Estuarine
Red Hake	Urophycis chuss	Х	1	Marine
Spotted Hake	Urophycis regia	Х		Marine
Striped Cusk-Eel	Ophidion marginatum	Х		Marine
Atlantic Needlefish	Strongylura marina	Х		Anadromous
Banded Killifish	Fundulus diaphanus	Х	Х	Freshwater
Mummichog	Fundulus heteroclitus	Х		Estuarine
Spotfin Killifish	Fundulus luciae	Х		Estuarine
Striped Killifish	Fundulus majalis	Х		Marine
Brook Silverside	Labidesthes sicculus	Х		Freshwater
Rough Silverside	Membras martinica	Х		Marine
Inland Silverside	Menidia beryllina	Х		Estuarine
Atlantic Silverside	Menidia menidia	Х		Marine
Fourspine Stickleback	Apeltes quadracus	Х		Estuarine
Threespine Stickleback	Gasterosteus aculeatus	Х		Anadromous
Bluespotted Cornetfish	Fistularia tabacaria	Х		Marine
Northern Pipefish	Syngnathus fuscus	X	1 1	Marine
Northern Searobin	Prionotus carolinus	Х	1 1	Marine

	Reported from the Lower Hudson River	Distrik		life liete
Common Name	Scientific Name	Lower	Upper	Life History
Striped Searobin	Prionotus evolans	Х		Marine
Grubby	Myoxocephalus aenaeus	Х		Marine
Atlantic Seasnail	Liparis atlanticus	Х		Marine
White Perch	Morone americana	Х		Estuarine
White Bass	Morone chrysops	Х		Freshwater
Striped Bass	Morone saxatilis	Х		Anadromous
Black Sea Bass	Centropristis striata	Х		Marine
Rock Bass	Ambloplites rupestris	Х	Х	Freshwater
Redbreast Sunfish	Lepomis auritus	Х	Х	Freshwater
Warmouth	Lepomis gulosus	Х		Freshwater
Pumpkinseed	Lepomis gibbosus	Х	Х	Freshwater
Bluegill	Lepomis macrochirus	Х	Х	Freshwater
Smallmouth Bass	Micropterus dolomieu	Х	Х	Freshwater
Largemouth Bass	Micropterus salmoides	Х	Х	Freshwater
White Crappie	Pomoxis annularis	X		Freshwater
Black Crappie	Pomoxis nigromaculatus	Х	Х	Freshwater
Tessellated Darter	Etheostoma olmstedi	Х	Х	Freshwater
Yellow Perch	Perca flavescens	Х	Х	Freshwater
Logperch	Percina caprodes	X	Х	Freshwater
Shield Darter	Percina peltata	Х		Freshwater
Walleye	Sander vitreus	Х	Х	Freshwater
Bluefish	Pomatomus saltatrix	Х		Marine
Sharksucker	Echeneis naucrates	Х		Marine
Crevalle Jack	Caranx hippos	Х		Marine
Atlantic Moonfish	Selene setapinnis	Х		Marine
Lookdown	Selene vomer	Х		Marine
Scup	Stenotomus chrysops	Х		Marine
Freshwater Drum	Aplodinotus grunniens	Х		Freshwater
Silver Perch	Bairdiella chrysoura	Х		Marine
Weakfish	Cynoscion regalis	Х		Marine
Spot	Leiostomus xanthurus	Х		Marine
Northern Kingfish	Menticirrhus saxatilis	Х		Marine
Atlantic Croaker	Micropogonias undulates	Х		Marine
Striped Mullet	Mugil cephalus	Х		Marine
White Mullet	Mugil curema	Х		Marine
Tautog	Tautoga onitis	Х		Marine
Cunner	Tautogolabrus adspersus	Х		Marine
Rock Gunnel	Pholis gunnellus	Х		Marine
Northern Stargazer	Astroscopus guttatus	X	ļļ	Marine
American Sand Lance	Ammodytes americanus	Х		Marine
Fat Sleeper	Dormitator maculatus	X	ļ ļ	Marine
Naked Goby	Gobiosoma bosc	Х	ļ ļ	Marine
Seaboard Goby	Gobiosoma ginsburgi	Х	ļ ļ	Marine
Atlantic Mackerel	Scomber scombrus	Х		Marine
Spanish Mackerel	Scomberomorus maculatus	Х	ļ ļ	Marine
Butterfish	Peprilus triacanthus	X	ļ ļ	Marine
Gulf Stream Flounder	Citharichthys arctifrons	Х		Marine
Smallmouth Flounder	Etropus microstomus	Х		Marine
Summer Flounder	Paralichthys dentatus	Х	ļ ļ	Marine
Fourspot Flounder	Paralichthys oblongus	Х		Marine
Windowpane	Scophthalmus aquosus	Х		Marine
Winter Flounder	Pseudopleuronectes americanus	Х		Marine
Yellowtail Flounder	Pleuronectes ferrugineus	Х		Marine
Hogchocker	Trinectes maculatus	Х		Estuarine
Scrawled Cowfish	Acanthostracion quadricornis	Х		Marine
Northern Puffer	Sphoeroides maculatus	Х		Marine

	Spawning Characteristics of Ma	Table 7-7 rine and Estuarine Fish Spe	ecies in the Hudson Ri	ver Estuary	
Common Name	Scientific Name	Spawning Season	Spawning Zone	Egg Location in Water Column	Larvae Location
Acipenseridae (Sturgeons))		•		
Shortnose Sturgeon	Acipenser brevirostrum	Late March to April	Fresh Tidal	Demersal Adhesive	Tidal Fresh
Atlantic Sturgeon	Acipenser oxyrhynchus	May to July	Brackish or Fresh	Demersal Adhesive	Tidal Fresh to Brackish
Clupeidae (Herrings)		•	•	•	
Blueback Herring	Alosa aestivalis	April to June	Fresh or Brackish	Pelagic	Fresh
Hickory Shad	Alosa mediocris	April to June	Fresh	Demersal or Pelagic	Fresh
Alewife	Alosa pseudoharengus	Late March to mid-May	Fresh	Pelagic	Fresh
American Shad	Alosa sapidissima	April to June	Fresh and Brackish	Demersal or Pelagic	Fresh and Brackis
Atlantic Menhaden	Brevoortia tyrannus	Fall and Spring	Marine	Pelagic	Fresh to Marine
Atlantic Herring	Clupea harengus	Fall and Spring	Marine	Demersal Attached	Marine
Gizzard Shad	Dorosoma cepedianum	Late Spring to Early Summer	Fresh	Demersal Attached	Fresh and Brackis
Moronidae (Temperate Riv	er Basses)				
White Perch	Morone americana	April to May	Brackish to Fresh	Demersal	Fresh to Estuarine
Striped Bass	Morone saxatilis	May to June	Fresh to Brackish	Semi-demersal	Fresh to Brackish Estuarine
Petromyzontidae (Lamprey	(s)				
Sea Lamprey	Petromyzon marinus	April to July	Fresh	Demersal	Fresh
Salmonidae (Trout)					
Brook Trout	Salvelinus fontinalis	Fall, mid-Oct to Dec	Fresh	Bottom Nesting	Fresh
Brown Trout	Salmo trutta	Fall to Winter	Fresh	Bottom Nesting	Fresh to Estuarine
Anguillidae (Freshwater Ee	els)				
American Eel	Anguilla rostrata	Late Winter to Early Spring	Marine, Sargasso Sea	Not Known	Marine
Other Fish Species of Inter	rests				
Atlantic Tomcod	Microgadus tomcod	November to February	Brackish	Demersal Adhesive	Estuarine
Bay Anchovy	Anchoa mitchilli	May to September	Brackish	Pelagic	Estuarine
Atlantic Silverside	Menidia menidia	March to June	Estuarine to Marine	Demersal Adhesive	Estuarine
Mummichog	Fundulus heteroclitus	Spring to Summer	Fresh to Marine	Bottom Cluster	Fresh to Estuarine
Striped Killifish	Fundulus majalis	June through August	Brackish to Marine	Bottom Burried	Fresh to Estuarine
Banded Killifish	Fundulus diaphanus	Late Spring to Summer	Fresh to Estuarine	Cluster, Attached to Plants	Fresh to Estuarin
Spotfin Killifish	Fundulus luciae	Spring to Early Fall	Fresh to Marine	Bottom Cluster	Brackish to Estuarine
Sheepshead Minnow	Cyprinodon variegates	Spring and Summer	Fresh	Not Known	Fresh
3-spined Stickleback	Gasterosteus aculeatus	Spring and Summer	Fresh	Bottom Nesting	Fresh to Estuarine
4-spined Stickleback	Apeltes quadracus	Late Spring to Early Summer	Fresh	Bottom Nesting	Fresh to Estuarine
Winter Flounder	Pseudopleuronectes americanus	Winter to Spring	Estuarine to Marine	Demersal Adhesive	Estuarine to Marin

Table 7-7 Spawning Characteristics of Marine and Estuarine Fish Species in the Hudson River Estuary						
Scientific Name	Spawning Season	Spawning Zone	Egg Location in Water Column	Larvae Location		
Tautoga onitis	Spring to Early Summer	Estuarine to Marine	Pelagic	Estuarine		
Centropristis striata	May to October	Marine	Pelagic	Marine		
Pomatomus saltatrix	June to August	Marine	Pelagic	Marine		
<i>Mugil</i> spp.	Fall to Winter	Estuarine to Marine	Pelagic	Estuarine		
-	Scientific Name Tautoga onitis Centropristis striata Pomatomus saltatrix	Spawning Characteristics of Marine and Estuarine Fish Spe Scientific Name Spawning Season Tautoga onitis Spring to Early Summer Centropristis striata May to October Pomatomus saltatrix June to August	Spawning Characteristics of Marine and Estuarine Fish Species in the Hudson Ri Scientific Name Spawning Season Spawning Zone Tautoga onitis Spring to Early Summer Estuarine to Marine Centropristis striata May to October Marine Pomatomus saltatrix June to August Marine Muril Spo Fall to Winter Estuarine to	Spawning Characteristics of Marine and Estuarine Fish Species in the Hudson River Estuary Scientific Name Spawning Season Spawning Zone Egg Location in Water Column Tautoga onitis Spring to Early Summer Estuarine to Marine Pelagic Centropristis striata May to October Marine Pelagic Pomatomus saltatrix June to August Marine Pelagic Muril Spo Fall to Winter Estuarine to Pelagic Pelagic		

Fish Species Caught during the 1991-1992 a	able 7-8 nd 1996 Angling Survey on the Hudson River from o Tappan Zee Bridge
Common Name	Scientific Name
Alewife	Alosa pseudoharengus
American Eel	Anguilla rostrata
American Shad	Alosa sapidissima
Atlantic Silverside	Menidia menidia
Black Crappie	Pomoxis nigromaculatus
Blueback Herring	Alosa aestivalis
Bluefish	Pomatomus saltatrix
Bluegill	Lepomis macrochirus
Brown Bullhead	Ameiurus nebulosus
Brown Trout	Salmo trutta
Carp	Cyprinus carpio
Channel Catfish	Ictalurus punctatus
Freshwater Drum	Aplodinotus grunniens
Golden Shiner	Notemigonus crysoleucas
Largemouth Bass	Micropterus salmoides
Northern Pike	Esox lucius
Pumpkinseed	Lepomis gibbosus
Red Hake	Urophycis chuss
Rock Bass	Ambloplites rupestris
Smallmouth Bass	Micropterus dolomieu
Striped Bass	Morone saxatilis
White Catfish	Ameiurus catus
White Perch	Morone americana
White Sucker	Catostomus commersoni
Yellow Perch	Perca flavescens
Source: NYSDOH 1996.	

	Table 7-9 Maximum Temperature Change- Six Foot Burial With Six Foot Separation						
Soil Type	Thermal Resistivity (K-m/W)	Peak Temperature Rise (ºK) @ 0.2 m Depth	Width of Sediment Above 2ºK (m) @ 0.2m Depth	Peak Temperature Rise (ºK) @ 0.3 m Depth	Width of Sediment Above 2ºK (m) @ 0.3m Depth	Peak Temperature Rise (ºK) @ Seafloor Surface	Width of Sediment Above 2°K (m) @ Seafloor Surface
Gravel	0.55	2.26	2.36	2.89	4.5	0.9	0
Sand	0.67	2.75	3	3.52	5	1.1	0
Clay/Silt	1	4.1	6	5.25	6	1.7	0

Table 7- Maximum Temperature Change i Four Foot Burial with	in Degrees Kelvin/Celsius -
Water	0.0038
Surface	1.0
0.2 Meter Depth	5.2
0.3 Meter Depth	6.7
0.5 Meter Depth	11.0

Atlantic sea herringClupea harengusM,S,XM,S,XM,S,XBluefishPomatomus saltatrixM,S,XM,S,XM,S,XAtlantic ButterfishPeprilus triacanthusM,XM,S,XM,S,XScupStenotomus chrysopsS,XS,XS,XS,XBlack Sea BassCentropristus striataM,S,XM,S,XM,S,XRed HakeUrophycis chussXM,S,XM,S,XM,S,XCobiaRachycentron canadumXXXXAtlantic MackerelScomber scombrusS,XS,XS,XKing MackerelScomber morus cavallaXXXXSpanish MackerelScomberomorus maculatesXXXXSummer FlounderParalicthys dentatusF,M,S,XM,S,XM,S,XM,S,XWindowpaneScopthalmus aquosusM,S,XM,S,XM,S,XM,S,XM,SSand Tiger SharkOdontaspis taurusXXXXClearnose SkateRaja eglanteriaXXXXLittle SkateLeucoraja erinaceaXXXX	Common Name	Scientific Name	Eggs	Larvae	Juveniles	Adults	Spawning Adults
Bluefish Pomatomus salatrix M,S,X M,S,X M,S,X Attantic Butterfish Peprilus triacanthus M,X M,S,X M,S,X M,S,X Scup Stenotomus chrysops S,X S,X S,X S,X S,X Black Sea Bass Centropristus striata M,S,X M,S,X M,S,X Red Hake Urophycis chuss X M,S,X M,S,X Cobia Rachycentron canadum X X X Attantic Mackerel Scomber scombrus S,X S,X S,X King Mackerel Scomberomorus cavalla X X X X Spanish Mackerel Scomberomorus maculates X X X X Summer Flounder Paralicthys dentatus F,M,S,X M,S,X M,	Finfish						
Atlantic ButterfishPeprilus triacanthusM,XM,S,XM,S,XScupStenotomus chrysopsS,XS,XS,XS,XS,XBlack Sea BassCentropristus striataM,S,XM,S,XM,S,XRed HakeUrophycis chussXM,S,XM,S,XM,S,XCobiaRachycentron canadumXXXXAtlantic MackerelScomber scombrusS,XS,XS,XKing MackerelScomberomorus cavallaXXXXSpanish MackerelScomberomorus maculatesXXXXSummer FlounderParalicithys dentatusF,M,S,XM,S,XM,S,XM,S,XWinter FlounderScopthalmus aquosusM,S,XM,S,XM,S,XM,S,XM,S,XShark and SkatesColontaspis taurusXXXXClearnose SkateRaja eglanteriaXXXXLittle SkateLeucoraja erinaceaXXXX	Atlantic sea herring	Clupea harengus		M,S,X	M,S,X	M,S,X	
ScupStenotomus chrysopsS,XS,XS,XS,XS,XBlack Sea BassCentropristus striataM,S,XM,S,XM,S,XRed HakeUrophycis chussXM,S,XM,S,XM,S,XCobiaRachycentron canadumXXXXAtlantic MackerelScomber scombrusS,XS,XS,XKing MackerelScomberomorus cavallaXXXXSpanish MackerelScomberomorus cavallaXXXXSummer FlounderParalicithys dentatusF,M,S,XM,S,XM,S,XM,S,XWinter FlounderPseudopleuronectes americanusM,S,XM,S,XM,S,XM,S,XM,S,XShark and SkatesScopthalmus aquosusM,S,XM,S,XM,S,XM,SM,SSand Tiger SharkOdontaspis taurusXXXXClearnose SkateRaja eglanteriaXXXLittle SkateLeucoraja erinaceaXXX	Bluefish	Pomatomus saltatrix			M,S,X	M,S,X	
Black Sea Bass Centropristus striata M,S,X M,S,X M,S,X Red Hake Urophycis chuss X M,S,X M,S,X M,S,X Cobia Rachycentron canadum X X X X Atlantic Mackerel Scomber scombrus S,X S,X S,X King Mackerel Scomberomorus cavalla X X X Spanish Mackerel Scomberomorus maculates X X X Summer Flounder Paralicthys dentatus F,M,S,X M,S,X M,S,X Winter Flounder Pseudopleuronectes americanus M,S,X M,S,X M,S,X M,S,X Windowpane Scopthalmus aquosus M,S,X M,S,X M,S,X M,S,X M,S,X Sand Tiger Shark Odontaspis taurus X X X X Sandbar Shark Carcharhinus plumbeus X X X X Little Skate Leucoraja erinacea X X X X	Atlantic Butterfish	Peprilus triacanthus		M,X	M,S,X	M,S,X	
Red HakeUrophycis chussXM,S,XM,S,XM,S,XCobiaRachycentron canadumXXXXXAtlantic MackerelScomber scombrusS,XS,XS,XKing MackerelScomberomorus cavallaXXXXSpanish MackerelScomberomorus maculatesXXXXSummer FlounderParalicthys dentatusF,M,S,XM,S,XM,S,XWinter FlounderPseudopleuronectes americanusM,S,XM,S,XM,S,XM,S,XWindowpaneScopthalmus aquosusM,S,XM,S,XM,S,XM,S,XM,SShark and SkatesSand Tiger SharkOdontaspis taurusXXXXClearnose SkateRaja eglanteriaXXXXLittle SkateLeucoraja erinaceaXXXX	Scup	Stenotomus chrysops	S,X	S,X	S,X	S,X	
CobiaRachycentron canadumXXXXAtlantic MackerelScomber scombrusS,XS,XS,XKing MackerelScomberomorus cavallaXXXXSpanish MackerelScomberomorus maculatesXXXXSummer FlounderParalichys dentatusF,M,S,XM,S,XM,S,XWinter FlounderPseudopleuronectes americanusM,S,XM,S,XM,S,XM,S,XWindowpaneScopthalmus aquosusM,S,XM,S,XM,S,XM,S,XM,S,XShark and SkatesSand Tiger SharkOdontaspis taurusXXXClearnose SkateRaja eglanteriaXXXLittle SkateLeucoraja erinaceaXXX	Black Sea Bass	Centropristus striata			M,S,X	M,S,X	
Atlantic MackerelScomber scombrusS,XS,XKing MackerelScomberomorus cavallaXXXSpanish MackerelScomberomorus maculatesXXXSummer FlounderParalicithys dentatusF,M,S,XM,S,XM,S,XWinter FlounderPseudopleuronectes americanusM,S,XM,S,XM,S,XM,S,XWindowpaneScopthalmus aquosusM,S,XM,S,XM,S,XM,S,XM,S,XShark and SkatesSand Tiger SharkOdontaspis taurusXXXClearnose SkateRaja eglanteriaXXXLittle SkateLeucoraja erinaceaXXX	Red Hake	Urophycis chuss	Х	M,S,X	M,S,X	M,S,X	
King MackerelScomberomorus cavallaXXXXSpanish MackerelScomberomorus maculatesXXXXSummer FlounderParalicthys dentatusF,M,S,XM,S,XM,S,XWinter FlounderPseudopleuronectes americanusM,S,XM,S,XM,S,XM,S,XWindowpaneScopthalmus aquosusM,S,XM,S,XM,S,XM,S,XM,S,XShark and SkatesSand Tiger SharkOdontaspis taurusXXXClearnose SkateRaja eglanteriaXXXLittle SkateLeucoraja erinaceaXXX	Cobia	Rachycentron canadum	Х	Х	Х	Х	
Spanish Mackerel Scomberomorus maculates X M,S,X	Atlantic Mackerel	Scomber scombrus			S,X	S,X	
Summer Flounder Paralicithys dentatus F,M,S,X M,S,X M,S,X Winter Flounder Pseudopleuronectes americanus M,S,X M,S,X	King Mackerel	Scomberomorus cavalla	Х	Х	Х	Х	
Winter FlounderPseudopleuronectes americanusM,S,XM,S,XM,S,XM,S,XM,S,XM,S,XWindowpaneScopthalmus aquosusM,S,XM,S,XM,S,XM,S,XM,S,XM,S,XM,SShark and SkatesSand Tiger SharkOdontaspis taurusXImage: Carcharhinus plumbeusXImage: Carcharhinus plumbeusXXSandbar SharkCarcharhinus plumbeusXXXImage: Carcharhinus plumbeusXXClearnose SkateRaja eglanteriaImage: Carcharhinus plumbeusXXXImage: Carcharhinus plumbeusLittle SkateLeucoraja erinaceaXXXImage: Carcharhinus plumbeusImage: Carcharhinus plumbeusXXImage: Carcharhinus plumbeus	Spanish Mackerel	Scomberomorus maculates	Х	Х	Х	Х	
Windowpane Scopthalmus aquosus M,S,X M,S	Summer Flounder	Paralicthys dentatus		F,M,S,X	M,S,X	M,S,X	
Shark and Skates Sand Tiger Shark Odontaspis taurus X Sandbar Shark Carcharhinus plumbeus X X Clearnose Skate Raja eglanteria X X Little Skate Leucoraja erinacea X X	Winter Flounder	Pseudopleuronectes americanus	M,S,X	M,S,X	M,S,X	M,S,X	M,S
Sand Tiger Shark Odontaspis taurus X Sandbar Shark Carcharhinus plumbeus X X Clearnose Skate Raja eglanteria X X Little Skate Leucoraja erinacea X X	Windowpane	Scopthalmus aquosus	M,S,X	M,S,X	M,S,X	M,S,X	M,S
Sandbar Shark Carcharhinus plumbeus X X Clearnose Skate Raja eglanteria X X Little Skate Leucoraja erinacea X X	Shark and Skates	· · ·		-			
Clearnose Skate Raja eglanteria X X Little Skate Leucoraja erinacea X X	Sand Tiger Shark	Odontaspis taurus		Х			
Little Skate Leucoraja erinacea X X	Sandbar Shark	Carcharhinus plumbeus		Х		Х	
	Clearnose Skate	Raja eglanteria			Х	Х	
	Little Skate	Leucoraja erinacea			Х	Х	
Winter Skate Leucoraja ocellata X X	Winter Skate	Leucoraja ocellata			Х	Х	

 $F = \text{freshwater salinity zone (0.0% < or = \text{salinity < or = 0.5\%)}}$ X = species designated for that particular life stage

Common Name	Scientific Name	Federal Status	New York
Cetaceans			
Bottlenose Dolphin	Tursiops truncates	D	U
Common Dolphin	Delphinus delphis	Р	N/A
Pilot Whale	Globicephala macrorhynchus	Р	N/A
Striped Dolphin	Stenella coeruleoalba	Р	N/A
Risso's Dolphin	Grampus griseus	Р	N/A
White-sided Dolphin	Lagenorhynchus acutus	Р	N/A
Pinnipeds			
Harbor Seal	Phoca vitulina	Р	Р
Gray Seal	Halichoerus grypus	Р	N/A
Harp Seal	Phoca groenlandica	Р	N/A
Hooded Seal	Crystophora cristata	Р	N/A
Source: NYNHP 2008; RFMRP 2008 a Note: U = unprotected P = protected SC = species of concern D = depleted N/A = not applicable	and 2010; CTDEP 2010; NYSDEC 2010.		

	Table 8-2	
	Construction Windows for Hudson River	
Project Route Mile	Location	Construction Windows
230 to 234	Cementon - Malden	Aug 1 - Oct 15
234 to 239	Malden - Turkey Point	Aug 1 - Oct 15
239 to 246	Turkey Point - Kingston Point	Aug 1 - Oct 15
246 to 250	Kingston Point - Esopus Meadows	Aug 1 - Oct 15
250 to 257	Esopus Meadows - Crum Elbow	Aug 1 - Oct 15
257 to 261	Crum Elbow - Poughkeepsie	Aug 1 - Oct 15
261 to 269	Poughkeepsie - New Hamburg	Aug 1 - Oct 15
269 to 280	New Hamurg - Pollepel Island	Sep 15 - Nov 30
280 to 296	Pollepel Island - Verplanck	Sep 15 - Nov 30
296 to 305	Verplanck - Croton Point	
305 to 320	Croton point - Yonkers	Jul 1 - Oct 31
320 to 324	Yonkers - Harlem River	Jul 1 - Oct 31
	Harlem River - East River	May 15 - Nov 30

	Table 9-1 Threatened and Endangered Fish S		I	
Common Name	Scientific Name	Waterbody	Federal Status	New York
Mooneye	Hiodon tergisus	Lake Champlain	_	Т
Eastern Sand Darter	Ammocrypta pellucidum	Lake Champlain	-	Т
Round Whitefish	Prosopium cylindraceum	Hudson River	-	E
Shortnose Sturgeon	Acipenser brevirostrum	Hudson River	E	E
Atlantic Sturgeon	Acipenser oxyrinchus	Hudson River	С	Р
Source: FTC 2009; NYSDEC 20	009.			
Note: T = threatened E = endangered				
SC = species of co	ncern			
C = candidate				
P = protected				

Preliminar	ry List of Threatened and Endange	red Non-Avian Wildlife with	Table 9-2 the Potential to	Occur along the	e Underground Transmission Cable Construction Zone	
Common Name	Scientific Name	Counties with Recent NYDEC Occurrence Records ¹	Federal Status ²	New York Status ²	Habitat	Preliminary Assessment of Potential within the Project Area ³
Mammals						
Allegheny woodrat	Neotoma magister	Rockland	-	E	Prefer large talus boulders accumulated in layers deep enough to form complex systems of passageways (NYSDEC 2010).	No
Eastern small-footed myotis	Myotis leibii	Albany	-	SC	Winter hibernation in caves and mines. Roost and form maternity colonies in fractures in rock ledges and talus. Foraging in deciduous forest (NYNHP 2009j).	No ⁴
Indiana bat	Myotis sodalis	Albany	Е	E	Winter hibernation in caves and mines. Summer colonies and roosts behind loose bark or in tree cavities of dead or dying trees in forested and semi-forested habitats in rural and suburban landscapes (USFWS 2004).	Yes
New England cottontail	Sylvilagus transitionalis	Greene, Westchester	С	SC	Shrubby areas and thickets, early successional forests with a dense shrub layer, disturbed areas and marshes (NYNHP 2009d)	No
Reptiles						
Blanding's turtle	Emydoidea blandingii	Saratoga	-	Т	Shallow wetlands, shrub swamps, marshes, shallow ponds and vernal pools. May travel through uplands between habitat areas (NYNHP 2009k).	Yes
Bog turtle	Glyptemys muhlenbergii	Rockland, Westchester. Historic records from Albany County.	Т	E	Open-canopy wet meadows, sedge meadows, and calcareous fens. In the Hudson River Valley, bog turtle habitats may be isolated from other wetlands or they may exist as part of larger wetland complexes. These wetlands are often fed by groundwater and the vegetation always includes various species of sedges (NYNHP 2009b)	No
Eastern box turtle	Terrapene carolina	Albany, Bronx, Greene, Queens, Rockland, Saratoga, Westchester, Washington	-	SC	Open deciduous forest and well-drained bottomland. May also use woodlands, fields, thickets, marshes and stream banks (CTDEP 2008). Nests are typically in bare upland areas with easy digging.	Yes
Eastern hog-nosed snake	Heterodon platirhinos	Albany, Queens, Rockland, Saratoga, Schenectady, Westchester	-	SC	Sandy soils, open woodlands, wetlands, sometimes rocky slopes (Sullivan and Curtis, 2001)	Yes
Eastern mud turtle	Kinosternon subrubrum	None. Historic records from Westchester County	-	E	Marshes, small ponds, wet ditches and fields, in fresh or brackish water. May travel away from water at times (NYSDEC 2010t)	No
Eastern wormsnake	Carphophis amoemus	Albany, Rockland, Westchester	-	SC	Moist/mesic forests. May be found under rocks, bark slabs, logs, leaves, or other forest litter in a variety of habitats. Also in sandy areas and pitch pine habitats (NYNHP 2009I).	Yes

Prelimina	ry List of Threatened and Endange	red Non-Avian Wildlife with	Table 9-2 the Potential to	Occur along the	e Underground Transmission Cable Construction Zone	
Common Name	Scientific Name	Counties with Recent NYDEC Occurrence Records ¹	Federal Status ²	New York Status ²	Habitat	Preliminary Assessment of Potential within the Project Area ³
Fence lizard	Sceloporus undulatus	Rockland, Westchester	-	т	Hudson Highlands region, in areas are characterized by steep slopes with extensive open rocky areas that are surrounded by mixed-deciduous, oak-dominated forests (NYNHP 2009m).	No
Spiny softshell	Apalone spinifera	Albany (historical), Washington, Orange, Rensselaer (historical), Essex (historical), Clinton (historical)	-	SC	Large rivers, river impoundments, lakes, ponds along rivers, pools along intermittent streams, bayous, oxbows. Prefers areas with open sandy or mud banks and soft bottom. Eggs are laid in open areas in sand, gravel, or soft soil near water (NatureServe 2009).	Yes
Spotted turtle	Clemmy guttata	Albany, Saratoga, Schenectady, Greene, Westchester, Washington	-	SC	Marshy meadows, bogs, swamps, ditches and small ponds (NYSDEC 2010u).	Yes
Timber rattlesnake	Crotalus horridus	Albany, Greene, Rockland, Saratoga, Westchester, Washington	-	Т	Occurs in mountainous or hilly areas, in deciduous or mixed deciduous-coniferous forests, often with rocky outcroppings, steep ledges, and rock slides (NYNHP 2009n).	Yes
Wood turtle	Glyptemys insculpta	Albany, Greene, Rockland, Saratoga, Schenectady, Westchester, Washington	-	SC	Live primarily along large streams, but may be found in a variety of habitats adjacent to streams, such as deciduous forest, fields, woodlands, bogs and pastures. May also be found traveling in upland areas between habitats (NatureServe 2009).	Yes
Amphibians			•		•	
Blue-spotted salamander	Ambystoma laterale	Albany, Saratoga, Schenectady, Greene, Washington	-	SC	Mesic temparate forests or overgrown pasture with sandy or loamy soils and adjacent lowland swamps and marshes, often belowground and under rocks or logs. Breeds in vernal pools in forested areas (NatureServe 2009).	Yes
Eastern spadefoot	Scaphiopus holbrookii	Albany, Queens, Rockland, Saratoga	-	SC	Pine barrens and similar habitats with dry, sandy or loose soils. Breeds in vernal pools within this habitat (NYNHP 2009o).	Yes
Jefferson salamander	Ambystoma jeffersonianum	Schenectady, Greene, Rockland, Washington	-	SC	Occurs in shaded or closed-canopy deciduous forest. Underground in rodent burrows under rocks, logs, and in leaf litter. Breeds in vernal pools in forested habitats (NatureServe 2009).	Yes
Longtail salamander	Eurycea longicauda	Greene		SC	Occurs in and along streams and seeps with a high pH and bordered by hardwoods. May be found far from water in rich forest habitat, but return to streams to breed (NYSDEC 2010).	Yes

Prelimina	ry List of Threatened and Endange	red Non-Avian Wildlife with	Table 9-2 the Potential to	Occur along the	e Underground Transmission Cable Construction Zone	
Common Name	Scientific Name	Counties with Recent NYDEC Occurrence Records ¹	Federal Status ²	New York Status ²	Habitat	Preliminary Assessment of Potential within the Project Area ³
Marbled salamander	Ambystoma opacum	Rockland, Westchester	-	SC	A variety of wooded habitats near swamps and vernal pools. Also rocky bluffs, slopes and wooded dunes. Often underground or underneath logs, rocks or other cover objects. Breeds in vernal pools or the edges of permanent ponds, swamps, and slow-moving streams (NatureServe 2009).	No
Northern cricket frog	Acris crepitans	Rockland (historical)	-	E	Prefers shallow, slow moving, algae-filled water sources with sunny banks (NYSDEC 2010).	No
Southern leopard frog	Rana sphenocephala	Queens, Rockland, Westchester (not confirmed)	-	SC	Open areas, grasslands, wet meadows, shallow wetlands, grassy edges and ditches (NYNHP 2009p).	No
Tiger salamander	Ambystoma tigrinum	None. Historic and unconfirmed records in Albany County.	-	E	Sandy pine barren areas with temporary or permanent pools for breeding (NYSDEC 2010v).	No
Invertebrates		<u> </u>				
American burying beetle	Nicrophorus americanus	Bronx	E	E	Prefers oak-hickory and bottomland forests, grasslands, and agricultural lands with well-drained soils and a well- developed detritus layer (NYSDEC 2010).	No
Checkered white	Pontia protodice	Queens	-	SC	Prefers open areas such as savannas, old fields, vacant lots, and power line right-of-ways (NYSDEC 2010).	No
Frosted elfin	Callophrys irus	Albany, Saratoga	-	т	Associated with remnant pine barrens, oak savannas, or dry oak forest, in openings, open grasslands, or shrubby areas. In the upper Hudson River Valley, populations feed on wild blue lupine (<i>Lupinus perennis</i>), which is an essential habitat component (NYNHP 2009e).	Yes
Gray petaltail	Tachopteryx thoreyi	Rockland	-	SC	Prefers deciduous forests with permanent seeps, usually on slopes (NYSDEC 2010).	Yes
Henry's elfin	Callophrys henrici	None. Historic records in Albany County.	-	SC	Records are from Albany pine bush areas. Tall shrub areas around bogs, or shrub swamps with holly (<i>llex</i> <i>spp.</i>) is potential habitat (NYNHP 2009q).	No
Inland barrens buckmoth	Hemileuca maia maia	Albany	-	SC	Occur in sand plain pine barrens in the Albany Pine Bush, in open areas with srcub oak. Larvae feed on oaks, particularly scrub oak and dwarf-chestnut oak (NYNHP 2009r).	Yes
Karner blue	Plebejus melissa samuelis	Albany, Saratoga, Schenectady	E	E	Extensive pine barrens, oak savannas or openings in oak woodlands, and unnatural openings such as airports and right-of-ways. Restricted to dry sandy areas with open woods and clearings that contain wild blue lupine (NYNHP 2009c).	Yes

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Preliminar	y List of Threatened and Endange	ered Non-Avian Wildlife with	Table 9-2 the Potential to	Occur along the	e Underground Transmission Cable Construction Zone	
Common Name	Scientific Name	Counties with Recent NYDEC Occurrence Records ¹	Federal Status ²	New York Status ²	Habitat	Preliminary Assessment of Potential within the Project Area ³
Little bluet	Enallagma minusculum	Queens	-	Т	Found in acidic, sandy ponds with floating vegetation.	No
Mottled duskywing	Erynnis martialis	Albany, Saratoga	-	SC	Occurrences are in the Albany Pine Bush. May have once used various dry habitats with brush and scrub or relatively open woodlands with New Jersey Tea (<i>Ceanothus americanus</i>), the larval host plan (NYNHP 2009s).	Yes
Northeastern beach tiger beetle	Cicindela dorsalis dorsalis	Queens	Т	т	Occurs in wide, undisturbed, dynamic, fine sand beaches with limited use and disturbance by humans (NYSDEC 2010).	No
Persius duskywing	Erynnis persius persius	Saratoga. Historic records in Albany County.	-	E	Mostly in pine barrens or savannas, but sometimes boggy places. Food plant is wild blue lupine or horseflyweed (<i>Baptisia tinctoria</i>) (NatureServe 2009).	Yes
Tawny crescent	Phyciodes batesii batesii	None. Historic records in Albany.	-	SC	Potential habitats includes savannahs, brushy openings, openings in wooded areas, old clearings, roadsides, open fields, rocky riparian slopes, oak savannahs and dry upland pastures. (NatureServe 2009).	No

¹NYDEC 2009. New York Nature Explorer [web site] at: http://www.dec.ny.gov/natureexplorer/app/ ² E=Endangered, T=Threatened, C=Candidate, SC=Special Concern.

³ These species may be present in the Project area if more detailed assessment concludes that the specific habitats they require are within the vicinity of the Project. Consultations with resource agencies in New York State have been initiated and are ongoing. CHPEI anticipates that further information from consultations with NYNHP, NYSDEC and USFWS will further refine this assessment of species potentially present within the Project area.

⁴No suitable winter or summer roost habitat along the transmission cable construction zone. Bats may forage over the Project area, but are unlikely to be affected by any Project activities.

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	Preliminary List of	Threatened and Endangered Avifauna	Table 9-3 with the Poter		ng the Transmission Cable Construction Zone	
Common Name	Scientific Name	Counties with Recent NYDEC Occurrence Records ¹	Federal ²	New York ²	Habitat	Preliminary Assessment of Potential within the Project Area ³
American bittern	Botaurus lentiginosus	Albany, Rockland, Saratoga, Washington	-	SC	Freshwater and sometimes brackish marshes, as well as marshy edges of lakes, ponds and impoundments (NatureServe 2009).	Yes
Bald eagle	Haliaeetus leucocephalus	Albany, Saratoga, Westchester, Washington, Columbia, Dutchess, Greene, Orange, Putnam, Rensselaer, Rockland, Ulster, Essex, Clinton	-	т	Live and nest near large bodies of water, such as bays, rivers and lakes (NYNHP, 2009q).	Yes
Bicknell's thrush	Calharus bicknelli	Greene	-	SC	Restricted to montane forests of balsam fir. Often associated with recently disturbed areas characterized by standing dead conifers and dense regrowth of balsam fir (NatureServe 2009).	
Black skimmer	Rhynchops niger	Nassau, Queens	-	SC	Nest on open sandy beaches, barrier beaches and dredge spoil islands (often with other gulls, terns and shorebirds) or open salt marsh areas. Forage in shallow and tidal waters of bays, inlets, marshes, estuaries, and salt marsh pool (NYNHP 2009t).	Yes
Black tern	Childonias niger	Clinton	-	E	Northern New York only in freshwater marshes with a mixture of emergent vegetation and open water (NYNHP 2009u).	No
Cerulean warbler	Dendroica cerulea	Greene, Westchester, Washington	-	SC	Breeds in broad-leaved deciduous forests, particularly closed canopy old growth forests, near streams, lakes or rivers (NYSDEC 2010w).	Yes
Common loon	Gavia immer	Saratoga, Westchester, Washington, Nassau, Essex, Clinton	-	SC	Breed on lakes and reservoirs. Winter along the coast at bays, inlets, and estuaries, sometimes on lakes and rivers (NYNHP 2009v).	Yes
Common nighthawk	Chordeiles minor	Bronx, Rockland, Saratoga, Queens, Westchester, Washington	-	SC	Nests are on bare substrate such as sand, dirt, gravel, or bare rock, often roofs of buildings in urban areas. Occurs in open habitats such as coastal dunes, beaches, forest clearings, and gravel roof tops (NYSDEC 2010x).	Yes
Common tern	Sterna hirundo	Westchester, Nassau, Queens, Essex	-	т	Beaches, grassy uplands and rocky inland shores. In New York, breed coastally or on large inland lakes (NYSDEC 2010y).	Yes
Cooper's hawk	Accipeter cooperii	Albany, Bronx, Greene, Rockland, Saratoga, Schenectady, Westchester, Washington	-	SC	Broadleaf hardwood or coniferous mature forests, forest edges, and open woodlands (NatureServe 2009).	Yes
Golden-winged warbler	Vermivora chrysoptera	Albany, Greene, Rockland, Saratoga, Westchester, Washington	-	SC	Early successional fields with mixed shrubby and open areas, especially abandoned farmlands and scrub-shrub wetlands (NYSDEC 2010z).	Yes
Grasshopper Sparrow	Ammodramus savannarum	Albany, Greene, Saratoga, Westchester, Washington	-	SC	Upland meadows, grasslands, pastures, hayfields and croplands with dense grasses (NYSDEC 2010aa)	Yes
Henslow's Sparrow	Ammodramus henslowii	Albany, Saratoga, Schenectady, Washington	-	Т	Grassy fields with tall, dense vegetation and little or no woody vegetation (NYNHP 2009g).	Yes

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	Preliminary List of	Threatened and Endangered Avifauna	Table 9- with the Pote		ng the Transmission Cable Construction Zone	
Common Name	Scientific Name	Counties with Recent NYDEC Occurrence Records ¹	Federal ²	New York ²	Habitat	Preliminary Assessment of Potential within the Project Area ³
Horned lark	Eremophila alpestris	Saratoga, Schenectady, Washington	-	SC	Nests in row crops, hayfields and grasslands in lowland areas (NYSDEC 2010bb).	Yes
King Rail	Rallus elegans	Albany, Westchester	-	Т	Breed in fresh and brackish marshes with emergent vegetation. Winter primarily in coastal salt marsh (NYNHP 2009w).	Yes
Least bittern	lxobrychus exilis	Albany, Greene, Queens, Rockland, Saratoga, Schenectady, Westchester, Washington	-	Т	Shallow or deep emergent marshes, and freshwater or brackish tidal marshes, particularly with cattails or bulrush with bur-reed, sedges, or common reed (NYNHP 2009x).	Yes
Least tern	Sterna antillarum	Queens	-	Т	Open sandy or gravelly beaches, dredge spoil, shoreline areas, and sometimes inland on broad river valley sandbars (NYSDEC 2010cc).	Yes
Northern goshawk	Accipiter gentilis	Albany, Greene, Rockland, Saratoga, Westchester, Washington	-	SC	Mature forests including coniferous, deciduous or mixed forests (NatureServe 2009).	Yes
Northern harrier	Circus cyaneus	Albany, Bronx, Queens, Saratoga, Schenectady, Westchester, Washington	-	т	Nest on the ground in open grasslands, shrublands, and marshes (NYNHP 2009y).	Yes
Osprey	Pandion haliaetus	Albany, Greene, Saratoga, Westchester, Washington, Columbia, Dutchess, Nassau, Putnam, Queens, Rensselaer, Rockland, Ulster, Essex, Clinton	-	SC	Nests along coastlines, lakes and rivers (NYSDEC 2010dd).	Yes
Peregrine falcon	Flaco peregrinus	Albany, Bronx, Greene, New York, Queens, Rockland, Saratoga, Schenectady, Westchester, Washington	-	E	Nest on ledges, cliffs, or artificial structures such as tall buildings and bridges in urban areas (NYNHP 2009z).	No ³
Pied-billed grebe	Podilymbus podiceps	Albany, Greene, Queens, Rockland, Saratoga, Schenectady, Westchester, Washington	-	Т	Quiet marshes, emergent vegetation along pond edges, shallow lakes, or marshy bays and or along slow-moving streams. Frequently associated with beaver impoundments (NYNHP 2009aa).	Yes
Piping plover	Charadrius melodus	Bronx, Nassau, Queens	т	E	Breed on dry sandy beaches, near dunes with little vegetation, or in areas that have been filled with dredged sand (NYSDEC 2010s).	Yes
Red-headed woodpecker	Melanerpes erythrocephalus	Greene, Westchester	-	SC	River bottoms, wooded swamps, open grasslands and agricultural areas with scattered dead trees and snags that provide nesting sites (NYSDEC 2010ee).	Yes
Red-shouldered hawk	Buteo lineatus	Albany, Greene, Rockland, Saratoga, Schenectady, Westchester, Washington	-	SC	Riparian forets, most woodlands, forested swamps and open pine woodlands (NYSDEC 2010ff)	Yes
Roseate tern	Sterna dougallii	Nassau, Queens	E	E	Breeds on a few colonies on Long Island. Nesting habitat includes salt marsh islands and beaches with sparse vegetation (NYSDEC 2010r).	Yes*

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	Preliminary List o	f Threatened and Endangered Avifauna	Table 9-3 with the Poter	-	ng the Transmission Cable Construction Zone	
Common Name	Scientific Name	Counties with Recent NYDEC Occurrence Records ¹	Federal ²	New York ²	Habitat	Preliminary Assessment of Potential within the Project Area ³
Seaside sparrow	Ammodramus maritimus	Bronx, Queens, Westchester	-	SC	Coastal tidal marshes (NYNHP 2009bb).	No
Sedge wren	Cistothrous platensis	Albany, Westchester, Washington	-	Т	Nest in tall grass or sedge clumps in wet meadows, grass and sedge bogs, or coastal marshes (NYNHP 2009cc), with scattered small shrubs.	Yes
Sharp-shinned hawk	Accipiter striatus	Albany, Greene, Rockland, Saratoga, Schenectady, Westchester, Washington	-	SC	Nests in coniferous, mixed, or deciduous forests and open woodlands (NatureServe 2009). Can also occur in suburban areas.	Yes
Short-eared owl	Asio flammeus	Saratoga, Westchester, Washington, Greene, Nassau, Orange, Queens, Ulster, Essex, Clinton	-	E	Open habitats, including grasslands, agricultural areas, freshwater marshes, and salt marshes (NYNHP 2009dd).	Yes
Upland sandpiper	Bartramia longicauda	Albany, Greene, Queens, Saratoga, Washington	-	Т	Nests in grasslands, arifields, pastures and grassy fields (NYNHP 2009ee).	Yes
Vesper sparrow	Pooecetes gramineus	Albany, Saratoga	-	SC	Grasslands, native prairie, pastures and haylands; will also use disturbed habitats such as reclaimed mines, overgrazed pasture, and row crops (NYSDEC 2010gg).	Yes
Whip-poor-will	Caprimulgus vociferus	Albany, Greene, Rockland, Washington	-	SC	Breeds in dry, deciduous or mixed forests an open understory and near open areas for foraging. In upstate New York, associated with oak-hickory forests (NYSDEC 2010hh).	Yes
Yellow-breasted chat	Icteria virens	Westchester	-	SC	Dense thickets and brush along the edges of deciduous and coniferous forests (NYSDEC 2010ii).	Yes

1NYDEC 2009. New York Nature Explorer [web site] at: http://www.dec.ny.gov/natureexplorer/app/

2 E=Endangered, T=Threatened, C=Candidate, SC=Special Concern.
 3 These species may be present in the Project area if more detailed assessment concludes that the specific habitats they require are within the vicinity of the Project. Consultations with resource agencies in New York State have been initiated and are ongoing. CHPEI anticipates that further information from consultations with NYNHP, NYSDEC and USFWS will further refine this assessment of species potentially present within the Project area.

Pr	eliminary List of Threatened and		Table 9-4 ntial to Occur al	ong the Undergro	ound Transmission Cable Construction Zone	
Common Name	Scientific Name	Counties with NYDEC Occurrence Records ¹	Federal Status ²	New York Status ²	Habitat	Preliminary assessment of potential within the Project area ³
Blunt-lobe Grape Fern	Botrychium oneidense	Albany, Saratoga (historical), Westchester (historical)	-	E	Found in organic or acidic moist soils and sandy soils in mixed deciduous hardwood forests, including the lower slopes of maple forests, secondary forests, wet woods along stream corridors, creek gorges and swamps (NYNHP 2009ff).	Yes
Button-bush dodder	Cuscuta cephalanthi	Washington (historical)	-	E	Wetlands; hosts include willows, asters, goldenrods, buttonbush, horsetails, mints, & water-willow (NYNHP 2009gg).	Yes
Carey's Smartweed	Persicaria careyi	Albany, Schenectady	-	т	A variety of wet or occasionally wet habitats, which may include coastal plain pond shores, roadside and powerline right-of-ways, talus slopes, low thickets, swamps, recent burns, clearings and cultivated ground May be in peaty or mucky soils, some sandy, and some a mixture (NYNHP 2009hh)	Yes
Cut-leaved Evening Primrose	Oenothera laciniata	Albany (historical)	-	E	Dry or sandy soils in sunny places (Connecticut Botanical Society, 2005).	Yes
Davis' Sedge	Carex davisii	Albany, Greene, Saratoga (unconfirmed), Westchester (historical)	-	Т	Mesic limestone, rich bottomland, floodplain forests, wet meadows and open gravel bars of large rivers. A number of populations occur adjacent to the Hudson River. Plants can occur in disturbed areas (NYNHP 2009ii).	Yes
Downy Lettuce	Lactuca hirsuta	Albany (unconfirmed), Schenectady (unconfirmed)	-	E	Open woods, clearings, thickets, rights-of-way, and ridgetops (Pennsylvania Natural Heritage Program 2010).	Yes
Dune Sandspur	Cenchrus tribuloides	Albany (historical)	-	Т	Moist, sandy dunes (Utah State University, 2010).	Yes
Erect Knotweed	Polygonum erectum	Schenectady (historical), Albany (historical), Saratoga (historical), Westchester (historical)	-	E	Sand dunes (UWPlants 2010a).	Yes
Estuary Beggar-ticks	Bidens hyperborea var. hyperborea	Albany	-	E	Only known from freshwater tidal mud flats and marshes (NYNHP 2009jj).	Yes
Giant Pine-drops	Pterospora andromedea	Washington (historical), Albany (historical), Schenectady (unconfirmed), Westchester (unconfirmed)	-	E	Dry or mixed coniferous forests (NatureServe 2009; UWPlants 2010b)	Yes
Glaucous Sedge	Carex glaucodea	Albany (historical)	-	E	Wet to dry meic deciduous forests and old fields, edges of seasonal swamps and open, seasonally wet depressions. Plants can often be found in roads and deer or human paths through forests (NYNHP 2009kk).	Yes

Pi	reliminary List of Threatened and		Table 9-4 ntial to Occur al	ong the Undergro	und Transmission Cable Construction Zone	
Common Name	Scientific Name	Counties with NYDEC Occurrence Records ¹	Federal Status ²	New York Status ²	Habitat	Preliminary assessment of potential within the Project area ³
Ground-cherry	Physalis virginiana var. virginiana	Albany	-	E	In the Hudson Valley, it is restricted to the edges of freshwater intertidal mudflats, sandy or rocky shorelines of tidal creeks and other waterways, edges of freshwater tidal marshes, and gravel shores along the freshwater tidal portions of the Hudson River (NatureServe 2009).	Yes
Heartleaf Plantain	Plantago cordata	Albany, Greene	-	т	Habitat includes shallow streams and along floodplains, gravelly or rocky beds of shallow, clear streams or springs and their adjacent floodplains. In New York, occurs along the banks of the Hudson River (NYNHP 2009II).	Yes
Hooker's Orchid	Plantanthera hookeri	Saratoga (historical), Albany (historical), Westchester (historical)	-	E	Habitat is dry or moist woodlands and forest, especially with open understories or successional forest dominated by poplar and pine. May be in deciduous, coniferous or mixed woods, thickets, and borders (NYNHP 2010mm).	Yes
Hudson River Water-nymph	Najas guadalupensis ssp. muenscheri	Albany, Greene, Saratoga (historical), Westchester (historical)	-	E	Fresh shallow water or pools of tidal mud flats of the Hudson River; occurs in mucky or gravel and rock soils resh tidal margins of rivers (NYNHP 2009nn).	Yes
Large Twayblade	Liparis liliifolia	Albany, Saratoga (historical), Schenectady (historical), Westchester	-	E	May occur in upland or wetland habitats, such as rich woods, red maple swamps with sphagnum hummocks, limestone-influenced soil and wooded talus slopes, secondary growth thickets, clearings and along railroad grades at the edge of swamps (NYNHP 2009oo).	Yes
Long's Bittercress	Cardamine longii	Greene	-	Т	Interidal areas within tidal estuaries and backwater areas. Often in shaded areas of tidal swamps, mudflats, and muddy banks along tidal creeks (NYNHP 2009).	Yes
Purple Everlasting	Gamochaeta purpurea	Albany (historical), Westchester	-	E	Open, usually disturbed, commonly sandy habitats, roadsides, fields, woodland clearings and edges (Flora of North America 2010).	Yes
Puttyroot	Aplectrum hyemale	Albany (historical), Saratoga (unconfirmed), Westchester (historical)	-	E	Rich woods, near limestone outcrops or in calcareous talus in mesic to damp soils. Typically in deciduous or mixed upland to swampy forests (NYNHP 2009pp).	Yes

P	reliminary List of Threatened and			ong the Undergro	ound Transmission Cable Construction Zone	Preliminary
Common Name	Scientific Name	Counties with NYDEC Occurrence Records ¹	Federal Status ²	New York Status ²	Habitat	assessment of potential within th Project area ³
Side-oats Grama	Bouteloua curipendula var. curtipendula	Schenectady, Albany, Westchester (unconfirmed)	-	E	Usually associated with dry limestone-derived soils and with natural or artificial disturbed areas. It prefers open habitats and may be found on riverside bluffs, shale cliffs and barrens, cedar glades, limestone pavements, abandoned sandpits, pastures, railroads, and powerlines (NYNHP 2010qq).	Yes
Small Whorled Pogonia	Isotria medeoloides	Washington (historical)	т	E	Semi-open second-growth deciduous forests with acidic, mesic soils (NatureServe 2009)	Yes
Smooth Bur-marigold	Bidens laevis	Greene	-	Т	Freshwater to brackish tidal mud flats and tidal marshes. Also found in swamps, marshy meadows, and along streams (NYNHP 2009).	Yes
Spongy Arrowhead	Sagittaria montevidensis	Greene	-	т	Freshwater to brackish intertidal mud flat; most abundant on these open mud flats but occasionally occurs in lower abundance in the taller vegetation associated with the adjacent and upslope brackish or fresh tidal marshes (NYNHP 2009).	Yes
Woodland Agrimony	Agrimonia rostellata	Albany (historical), Schenectady (historical), Westchester (historical)	-	Т	Occurs in mesic forests, forested gorge slopes in calcareous bedrock, streambanks in rich forests, forested slopes adjacent to streams, forested limestone benches, dry oak woods, wooded pastures on rich soil, shrub thickets, clearings and fields (NYNHP 2009rr).	Yes

² E=Endangered, T=Threatened, C=Candidate, SC=Special Concern.
 ³ These species may be present in the Project area if more detailed assessment concludes that the specific habitats they require are within the vicinity of the Project. Consultations with resource agencies in New York State have been initiated and are ongoing. CHPEI anticipates that further information from consultations with NYNHP, NYSDEC and USFWS will further refine this assessment of species potentially present within the Project area.

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etaceans Finback Whale Balaenoptera physalus Northern Right Whale Balaena glacialis	E I	
Northern Right Whale Balaena glacialis	E C	
0 3	L	E
	E	E
Humpback Whale Megaptera novaeangliae	E	E
Sei Whale Balaenoptera borealis	E	E
Harbor Porpoise Phocoena phocoena	SC	SC

Threatened a	Table 9-6 nd Endangered Sea Turtles in the Nearsho	oro Coastal Wators of Now You	ъ
Common Name	Scientific Name	Federal Status	New York
Hawksbill sea turtle	Eretmochelys imbricata	E	E
Leatherback Turtle	Dermochelys coriacea	E	E
Kemp's Ridley Turtle	Lepidochelys kempii	E	E
Loggerhead Turtle	Caretta caretta	Т	Т
Green Turtle	Chelonia mydas	Т	Т
Source: NYNHP 2008; RFMRP 2008 Note: E = endangered T = threatened	and 2010; CTDEP 2010; NYSDEC 2010.		

Prelin		and Endangered Aquati erwater Portions of the			ith the Potential to Occur along t ion Zone	the
Common Name	Scientific Name	Counties with Recent NYDEC Occurrence Records ¹	Federal ²	New York ²	Habitat	Preliminary assessment of potential within the Project area ³
Brook floater	Alasmidonta varicose	Ulster, Orange, Rockland	-	Т	In running water and gravel riffles along small rivers and creeks (NYNHP 2009i).	No
Dwarf wedgemussel	Alasmindonta heterodon	Orange, Dutchess	E	E	Large or small rivers in cool, shallow water over cobble sediments with accumulated fine sediments (NYNHP 2009h).	No
Extra-striped snaketail	Ophiogomphus anomalus	Saratoga, Essex	-	SC	Nymphs develop in clear, rapid and cold, medium to large rivers with high dissolved oxygen content and high water quality (NYNHP 2009c).	Yes
Pygmy snaketail	Ophiogomphus howei	Saratoga	-	SC	Large, clear rivers with strong currents and/or rapids over coarse cobbles (NatureServe 2009).	Yes

¹NYDEC 2009. New York Nature Explorer [web site] at: <u>http://ww.dec.ny.gov/natureexplorer/app/</u>. Includes only counties where appropriate habitat may be present along the Project route.

² E=Endangered, T=Threatened, C=Candidate, SC=Special Concern.

³ These species may be present in the Project area if more detailed assessment concludes that the specific habitats they require are within the vicinity of the Project. Consultations with resource agencies in New York State have been initiated and are ongoing. CHPEI anticipates that further information from consultations with NYNHP, NYSDEC and USFWS will further refine this assessment of species potentially present within the Project area.

	Table 12-1	
	Astoria Converter Station	
	Estimated Source Sound Levels (dBA)	
Outdoor Sources	Number of Sources	Sound Power Level (dBA)
Converter Transformer	4 (3 running at any time)	98
Transformer Cooler Bank	3	90
Valve Cooler	11	93
Auxiliary Transformer	1	75
Air Conditioner	2	72
	-	
Indoor Sources	Number of Sources	Sound Power Level (dBA)
Phase Reactor	6	80
Valve Unit	19 per leg	83
Smoothing Reactor	2	80

	Table 12-2 Astoria Converter Station hort-Term Ambient Noise Levels (dBA)
Location	Daytime	Late Night
2000000	Leq	Leq
20th Avenue and 27th Street	57.3	52.6
20th Avenue and 31st Street	60.7	50.2
20th Avenue and 37th Street	58.0	47.7

	Calcul Compare	Astoria Cor ated M3 Zone Pr	le 12-3 iverter Station operty Line Noise g Resolution Stan	Levels dard (dB)											
Description	Octave Band Center Frequency (Hz)														
Description	63	125	250	500	1000	2000	4000	8000							
New York City Zoning Resolution M3 Standard	79	74	69	63	57	52	48	45							
Project Noise at M3 Property Line – Location 1	66	66	62	61	54	49	42	30							
Project Noise at M3 Property Line – Location 2	66	66	62	60	55	48	41	30							
Project Noise at M3 Property Line – Location 3	65	65	61	57	54	48	40	27							
Project Noise at M3 Property Line – Location 4	64	63	60	56	53	47	39	26							

		Astoria Con lated Residentia	e 12-4 verter Station I Boundary Noise g Resolution Stan													
Description		Octave Band Center Frequency (Hz)														
Description	63	4000	8000													
New York City Zoning Resolution M3-R Standard at Residential Boundary	73	68	63	57	51	46	42	39								
Exterior Project Noise at 20th Avenue and 27th Street	43	43	38	37	29	20	0	0								
Exterior Project Noise at 20th Avenue and 31st Street	42	39	33	28	20	10	0	0								
Exterior Project Noise at 20th Avenue and 37th Street	47	45	41	36	32	23	3	0								

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		Calculated Resid	Table 12-5 a Converter Sta lential Boundary to NYC Noise C	/ Noise Levels											
Description	Octave Band Center Frequency (Hz)														
Description	31.5	63	125	250	500	1000	2000	4000	8000						
NYC Noise Code for Interior of Residential Structures	70	61	53	46	40	36	34	33	32						
Exterior Project Noise at 20th Avenue and 27th Street	39	43	43	38	37	29	20	0	0						
20 dBA Transmission Loss for Single Family Home	4	7	15	24	30	33	39	31	27						
Interior Project Noise at 20th Avenue and 27th Street	35	36	28	14	7	0	0	0	0						
	[1						
Exterior Project Noise at 20th Avenue and 31st Street	39	42	39	33	28	20	10	0	0						
20 dBA Transmission Loss for Single Family Home	4	7	15	24	30	33	39	31	27						
Interior Project Noise at 20th Avenue and 31st Street	35	35	24	9	0	0	0	0	0						
	[1		1							
Exterior Project Noise at 20th Avenue and 31st Street	39	47	45	41	36	32	23	3	0						
20 dBA Transmission Loss for Single Family Home	4	7	15	24	30	33	39	31	27						
Interior Project Noise at 20th Avenue and 31st Street	35	40	30	17	6	0	0	0	0						

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Commission's Settlement Guidelines

											Pure		ia Con		Statio Transf		S													
TDI- Astoria Converter Stat Transformers One-Third Octave Band Anal		Promine	ent Pu	re Tones	6												*													
Typical Transformer Spectrur	n from t	he Hand	dbook	of Acou	stical N	/leasu	remei	nts ar	nd Nois	se Con	trol, H	arris 1	991																	
																-														
	16	20	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1K	1.25K	1.6K	2K	2.5K	3.15K	4K	5K	6.3K	8K	10K	12.5K
Measured Levels (dB)**			49	53	64	51	51	57	63	75	58	62	74	71	74	73	66	64	60	56	54	52	49	47	45	43	42	40	39	
1.) Does the 1/3 octave band ha		0	0	0	1	0	cent 1. 0	/3 oct 0	ave ba 0	nds? (" [.] 1	1" is ye 0		; no) 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
The actual anthinetic average of	aujacen			-			-	-	-	60.5	-	-	66.5	-	72.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.) Does condition 1) apply, and	is the 1/3	3 octave	band	greater th	han the	arithm	etic av	erage	e of its	adjacer	nt 1/3 o	ctave b	ands? ("1" is \	/es, "0"	s no)														
, , , , , , , , , , , , , , , , , , , ,		0	0	0	1	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
The amount by which the 1/3 oc	tave ban																													
		-	-	-	12.0	-	-	-	-	14.5	-	-	7.5	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Allowable exceedence per NYSI	OPS prote	ocol 15	15	15	15	15	15	15	15	15	8	8	8	8	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
3.) Is the standard exceeded - is	s the 1/3	octave b	band a	"promine	ent pure	tone"?	,																							
		Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	
Note: Definition of pure tone as	defined l	oy "Mod	el Com	munity N	loise Co	ontrol C	Ordina	nce"	USEPA	A, 1975.																			-	

											D		ia Con		Statio	-														
TDI- Astoria Converter Sta	tion										Pl	re-10	ne Ana	iysis t	for Coo	iers														
Valve Coolers	tion																													
One-Third Octave Band Anal	lveie for l	Promine	ont Du	ra Tona	-																									
one mild octave band mild	19515 101 1				5																									
Typical Cooler Spectrum from	m the Ha	ndbook	of Ac	oustical	Measu	uremer	nts an	d Noi	se Co	ntrol, ⊢	larris '	1991																		
	1 / 3 Octave Band (dB)																													
	16	20	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1K	1.25K	1.6K	2K	2.5K	3.15K	4K	5K	6.3K	8K	10K	12.5K
Measured Levels (dB)**					85	87	86	84	89	101	92	93	96	95	101	99	99	98	97	94	94	95	97	93	87	85	87	82	78	
1.) Does the 1/3 octave band ha	Ū	0	0	0	0	1	cent 1 0	/3 octa 0	ave ba 0	nds? (" [.] 1	1" is ye 0		; no) 1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	
The actual arithmetic average c	of adjacent			inds, whe -			-	-	-	90.5	-	-	94.0	-	97.0	-	-	-	-	-	-	-	94.0	-	-	-	83.5	-	-	
2.) Does condition 1) apply, and	d is the 1/3	3 octave	band	greater th	han the	arithm	etic av	/erage	of its a	adjacer	nt 1/3 o	ctave b	ands?	"1" is y	/es, "0"	s no)														
		0	0	0	0	1		0	0	1	0	0	1		1		0	0	0	0	0	0	1	0	0	0	1	0	0	
The amount by which the 1/3 or	ctave ban	d does e	exceed	the arith	metic a	verage	of its	adjace	ent 1/3	octave	bands	, where	applica	able																
		-	-	-	-	1.5	-	-	-	10.5	-	-	2.0	-	4.0	-	-	-	-	-	-	-	3.0	-	-	-	3.5	-	-	
Allowable exceedence per NYS	DPS prote	ocol																												
		15	15	15	15	15	5 15	15	15	15	8	8	8	8	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
3.) Is the standard exceeded - i	is the 1/3	octave b	band a	"promine	ent pure	tone"?)																							
		Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	
Note: Definition of pure tone as	defined b	oy "Mod	el Com	munity N	loise C	ontrol C	Ordina	nce" l	USEPA	, 1975.																				