

Appendix B. Natural Resources Summary Tables

Table 1. Vernal Pool Survey Results for the Western Maine Renewable Energy Project, Moscow, Maine.

Vernal Pool ID					First visit survey and counts			Second visit survey and counts			
	Associated Wetland	Hydrology	MDEP NRPA Significant ¹	Pool Origin	Date ²	Wood Frog (Lithobates sylvaticus)	Spotted Salamander (Ambystoma maculatum)	Date ²	Wood Frog (Lithobates sylvaticus)	Spotted Salamander (Ambystoma maculatum)	Notes
VP19CP	N/A	Ephemeral	Yes	Natural	5/20/2020	0	57	5/26/2020	10	57	Bullfrog (<i>Lithobates</i> catesbeianus) 5/20/20
VP21DS	W68EI	Ephemeral	No	Non- natural	4/29/2020	100+	100+	5/18/2020	30	40+	
VP22DS	W68EI	Ephemeral	No	Non- natural	4/29/2020	7	0	5/18/2020	7	0	
VP40DS	W08EI	Ephemeral	Yes	Natural- modified	5/6/2020	14	15	5/18/2020	18	40+	Two pair of spring peepers (Pseudacris crucifer) observed mating along with presence of green frogs (Rana clamitans) during 5/18/20 visit
PVP41EI	W115EI	Unknown	No	Non- natural	12/22/2020	N/A	N/A	N/A	N/A	N/A	PVP identified during winter surveys
PVP42EI	W111	Unknown	No	Non- natural	12/22/2020	N/A	N/A	N/A	N/A	N/A	PVP identified during winter surveys
PVP43EI	W107EI	Unknown	No	Non- natural	1/28/2021	N/A	N/A	N/A	N/A	N/A	PVP identified during winter surveys

^{1 –} Significance based on Maine Department of Environmental Protection (MDEP) Natural Resources Protection Act (NRPA) (38 Maine Revised Statutes Annotated §§480-A et seq.) and Maine Significant Wildlife Habitat Rules (Chapter 335). Available online at: http://www.maine.gov/dep/land/nrpa/index.html (MDEP 2014).

^{2 –} Species count numbers are the highest numbers counted between the two surveys.

^{3 –} Blue spotted salamander (*Ambystoma laterale*) and fairy shrimp (*Anostraca* spp.) were not observed in any of the pools identified on-Site. No vernal pool-dependent listed species were observed. PVP = potential vernal pool.

Table 2. Wetland Delineation Results for the Western Maine Renewable Energy Project, Moscow, Maine.

Wetland ID	Cowardian Classification ¹	Area (Acres)	Area (Sq. Ft.)	Summary Notes	Wetland of Special Significance ²
W08EI	PEM/PSS/PFO	4.88	212,787.65	Large wetland complex characterized by pit/mound microtopography in forested areas, and high organic content in soils with sulfur odor in emergent areas. Contains VP04DS and S01EI. Common plants include bluejoint, Canada bunchberry, swamp dewberry, swamp violet, wild raisin, gray birch, and northern white cedar.	Yes
W11EI	PEM	0.02	898.36	A naturalized ditch along the edge of a USAF radar field. Common plants include swamp dewberry, highbush blueberry, horsetail, reed canary grass, blue flag iris, and broad leaf cattail.	No
W12EI	PFO	2.08	90,597.48	A large forested wetland complex that is connected to W13EI and W14EI offsite. A small portion of this wetland occurs as a naturalized ditch adjacent to an existing access road. Common plants include northern white cedar, red maple, black spruce, gray birch, wild rasin, bellwort, water avens, swamp violet and swamp dewberry.	No
W13EI	PFO	0.23	9,918.82	A large forested wetland complex that is connected to W12EI and W14EI offsite. Common plants include northern white cedar, red maple, black spruce, gray birch, winterberry holly, marginal wood fern, swamp violet, and creeping snowberry.	No
W14EI	PFO	1.55	67,343.12	A large forested wetland complex that is connected to W12EI and W13EI off site. A portion of this wetland occurs as a roadside ditch. Common plants include northern white cedar, red maple, black spruce, gray birch, winterberry holly, marginal wood fern, swamp violet, and creeping snowberry.	Yes
W15EI	PFO	0.16	6,885.38	A forested wetland that continues off site. A portion of this wetland contains a roadside ditch. Common plants include northern white cedar, wild rasin, red maple, winterberry holly, swamp dewberry and creeping snowberry.	No
W16EI	PFO	0.25	10,735.15	An isolated, forested wetland, with visible impacts from previous timber removal. Common plants include northern white cedar, red spruce, marginal wood fern, swamp violet, reed canary grass, and highbush blueberry.	No
W17DS	PFO/PSS	3.82	166,562.34	larger wetland complex within a USAF radar field. Contains S14DS. Common plants include northern white cedar, gray birch, black ash, red maple, meadowsweet, highbush blueberry, and winterberry holly.	Yes
W17EI	PFO	0.45	19,663.71	A forested wetland with visible impacts from previous timber removal. Contains S52EI, a tributary to Bassett Brook. Common plants include northern white cedar, winterberry holly, black spruce, and highbush blueberry.	Yes

Wetland ID	Cowardian Classification ¹	Area (Acres)	Area (Sq. Ft.)	Summary Notes	Wetland of Special Significance ²
W18EI	PFO/PEM	0.05	2,241.53	An isolated seep wetland that drains into a roadside ditch. Common plants include northern white cedar, black spruce, sphagnum moss, swamp violet, interrupted fern, and water avens	No
W19EI	PFO	0.25	10,932.31	An isolated wetland with shallow soils. Common plants include balsam fir, red maple, meadowsweet, sensitive fern, and maple-leaf viburnum.	No
W20DS	PFO/EM1	1.29	56,200.29	Wetland occurs in a USAF radar field, contains S15DS and S15DS. Common plants include northern white cedar, red maple, balsam fir, meadowsweet, sensitive fern, horsetail, slender willow, and bluejoint.	Yes
W20EI	PFO	0.39	16,995.90	A small, forested, wetland that continues offsite. Common plants include sensitive fern, cinnamon fern, horsetail, swamp violet, northern white cedar, red maple, winterberry holly, and maple-leaf viburnum.	No
W21DS	PFO/EM1	0.62	27,102.37	Wetland occurs in a USAF radar field and continues outside of the Study Area. Common plants include northern white cedar, red maple, balsam fir, meadowsweet, sensitive fern, horsetail, slender willow, and bluejoint.	No
W29EI	PFO/PEM	0.38	16,459.80	A depressional wetland with soils that are shallow to bedrock; limit of excavation was 6-10 inches of dark organic muck. Common plants include black spruce, northern white cedar, red maple, wild rasin, bluejoint, slender willow, Canada bunchberry, and cinnamon fern.	No
W30EI	PEM/PFO	2.91	126,724.59	A larger wetland with seepy conditions on a hillslope; soils are shallow to bedrock and characterized by dark, muck. Common plants include cinnamon fern, tussock sedge, speckled alder, horsetail, slender willow, larch, red maple, jewelweed, interrupted fern, foam flower, and Canada bunchberry.	No
W33EI	PFO	1.09	47,428.50	A forested wetland with microtopography and a layer of sphagnum moss throughout; soils contain a dark surface with redoximorphic concentrations. Common plants include yellow birch, black ash, black spruce, larch, speckled alder, wild rasin, interrupted fern, and cinnamon fern.	No
W34EI	PEM	0.19	8,143.34	An emergent depressional wetland that is surrounded by upland forest. Common plants include swamp violet, joe-pye weed, cinnamon fern, sensitive fern, water avens, bellwort, tussock sedge, and bluejoint.	No
W35EI	PEM	0.06	2,746.31	A small depression with similar characteristics to Wetland W34EI. Common plants include swamp violet, joe-pye weed, cinnamon fern, sensitive fern, tussock sedge, and bluejoint.	No
W36EI	PEM	0.01	511.01	A small isolated, seep wetland; soils have a depleted matrix and redox concentrations. Common plants include sensitive fern, red maple, interrupted fern, and marginal wood fern.	No



Wetland ID	Cowardian Classification ¹	Area (Acres)	Area (Sq. Ft.)	Summary Notes	Wetland of Special Significance ²
W37EI	PFO	0.07	3,039.67	An isolated depression surrounded by upland forest. Common plants include swamp violet, Canada bunchberry, joe-pye weed, cinnamon fern, sensitive fern, water avens and marginal wood fern.	No
W38EI	PFO	0.04	1,691.44	A forested wetland with microtopography and soils with containing a dark surface with redoximorphic concentrations. Common plants include tussock sedge, meadow rue, horsetail, interrupted fern, wild rasin, red maple, larch, black spruce, black ash and speckled alder.	No
W39EI	PFO	0.10	4,482.90	A small, isolated wetland surrounded by upland forest Common plants include swamp violet, Canada bunchberry, joe-pye weed, cinnamon fern, sensitive fern, water avens and marginal wood fern.	Yes
W40EI	PFO/PEM	0.38	16,697.37	A large, mostly forested wetland that continues outside the Study Area; soils are characterized by dark muck. Common plants include sensitive fern, cinnamon fern, swamp violet	No
W41EI	PEM	0.06	2,794.25	An emergent depression with dark organic soils. Common plants include Tussock sedge, bluejoint, sensitive fern, jewelweed, larch, and meadowsweet.	No
W42EI	PFO	0.05	2,250.08	An isolated depression with dark, mucky soils. Common plants include black ash, red spruce, speckled alder, fringed sedge, bellwort, strawberry, and striped maple.	Yes
W43EI	PFO	0.07	2,996.28	An isolated depression with dark mineral soils. Common plants include sensitive fern, interrupted fern, tussock sedge, fringed sedge, yellow bluebead-lilly, hobblebush, yellow birch, black ash, and striped maple.	Yes
W44EI	PEM	0.14	6,114.10	An isolated depression surrounded by upland forest. Common plants include swamp violet, Canada bunchberry, joe-pye weed, cinnamon fern, sensitive fern, water avens and marginal wood fern.	No
W47EI	PEM/PFO	0.18	7,745.87	Hillslope wetland with dominant upland vegetation. A small patch of blue flag iris and a small patch of swamp violet observed, but were not dominant, other plants include, red spruce, balsam fir, tussock sedge, red raspberry, sensitive fern, and meadowsweet.	No
W48EI	PFO	0.06	2,819.99	Forested wetland connected to S24EI. Common plants include black spruce, sensitive fern, bluejoint, red maple, and meadowsweet.	Yes
W49EI	PFO	0.05	2,041.11	Forested wetland connected to S24EI. Common plants include black spruce, sensitive fern, bluejoint, red maple, and meadowsweet.	Yes
W50EI	PEM	0.08	3,304.83	A grassy slope that leads to a roadside ditch. Common plants include meadow sweet, sensitive fern, and tussock sedge.	Yes



Wetland ID	Cowardian Classification ¹	Area (Acres)	Area (Sq. Ft.)	Summary Notes	Wetland of Special Significance ²
W51EI	PEM/PSS	0.88	38,426.98	A large hillslope wetland that starts at the ditch Watercourse S25EI and continues outside of the study area. Common plants include sensitive fern, speckled alder, tussock sedge, and timothy grass.	No
W52EI	PFO	0.07	3,040.78	A hillslope wetland fed by two watercourses, S28EI and S27EI. Common plants include red maple, speckled alder, and cinnamon fern.	No
W53EI	PEM	0.29	12,484.21	Hillside with skidder trails that create drainages throughout. There are a mix of hydric and no-hydric vegetation, this area is likely naturalized due to previous disturbance. Common plants include Christmas fer, gooseberry, bluejoint, raspberry, marginal wood fern, and meadowsweet.	No
W54EI	PEM	0.04	1,736.58	Naturalized skidder trail with sensitive fern and cinnamon fern.	No
W55EI	PEM	0.05	1,988.05	An isolated, regenerating wetland characterized by impacted area due to timber harvesting activities. Common plants include tussock sedge, sensitive fern, black spruce and red maple.	No
W56EI	PFO	0.12	5,357.21	A small forested depression with depleted soils connected to S29EI. Common plants include jewelweed, cinnamon fern, sensitive fern, larch, and red maple.	Yes
W59EI	PEM	0.03	1,451.66	A naturalized skidder may be an old laydown area, soils are a dark fine sandy loam with a high organic content. Common plants include tussock sedge, New York fern, red raspberry, and jewelweed.	No
W60EI	PFO	0.23	9,966.57	Connected to Watercourse S32EI on both sides, soils are shallow to bedrock. Common plants include New York fern, bedstraw, jewelweed, water avens, black ash, red maple, and fringed sedge.	Yes
W61EI	PEM	0.21	9,013.32	A naturalized depression adjacent to the road and has a culvert inlet. Common plants include sensitive fern, cinnamon fern, joe-pye weed, blue flag iris, meadowsweet and jewelweed.	No
W63EI	PEM	0.09	3,921.84	A naturalized roadside depression that is fed by watercourse S36EI from the east. Common plants include meadowsweet, tussock sedge, and purple vetch.	No
W64EI	PEM/PSS/PFO	0.30	12,877.70	Connected to wetland W63EI through a culvert where it begins as a PEM but transitions from PSS to PFO farther away from the road, wetland continues outside of the Study Area. Common plants include speckled alder, black ash, red maple, sensitive fern, meadowsweet, water avens, broad leaf cattail, blue flag iris, and meadow rue.	No



Wetland ID	Cowardian Classification ¹	Area (Acres)	Area (Sq. Ft.)	Summary Notes	Wetland of Special Significance ²
W65EI	PFO	0.05	2,272.07	An isolated depression that appears to be a naturalized abandoned roadbed; bare ground makes up approximately 55% of the herbaceous layer. Common plants include swamp violet, sensitive fern, interrupted fern, red maple, white birch, and yellow birch.	No
W66EI	PEM	0.38	16,692.92	An isolated wetland adjacent to an existing electrical transmission line. Common plants include bluejoint, tussock sedge, sensitive fern, speckled alder, fringed sedge, and marginal wood fern.	No
W67EI	PEM	0.22	9,680.48	A roadside depression that has been influenced by a culvert that has been impacted by North American beaver; some standing water and saturated soils. Wetland contains watercourse S53EI. Common plants include bluejoint, tussock sedge, horsetail, sensitive fern, reed canary grass, and broad leaf cattail.	No
W68EI	PEM	0.70	30,607.03	A naturalized wetland between a road and an electrical transmission line. Wetland contains VP21DS and VP22DS. Common plants include broad leaf cattail, sensitive fern, blue flag iris, and bluejoint.	Yes
W69EI	PFO	0.10	4,423.08	An isolated depression surrounded by upland forest. Common plants include scirpus cyperinus, bluejoint, carex stricta, strawberry, yellow birch, red maple, bellwort, and canada bunchberry.	No
W70EI	PFO	0.02	836.40	A naturalized wetland in an old skidder path. Common plants include black birch, yellow birch, tussock sedge, cinnamon fern, and sensitive fern.	No
W71EI	PEM	0.29	12,425.68	A beaver impoundment in a roadside depression with a culvert partially clogged from beaver activity. Contains watercourse S53EI. Common plants include bluejoint, tussock sedge, sensitive fern, broad leaf cattail, and reed canary grass.	No
W81EI	PFO	1.45	63,057.88	A forested swamp that extends off site. Common plants include northern white cedar, red maple, black spruce, yellow birch, cinnamon fern, sensitive fern, royal fern, and Canada bunchberry.	No
W83EI	PEM/PSS	0.43	18,670.20	An emergent/scrub shrub wetland characterized by past disturbance from timber harvesting. Common plants include black ash, black spruce, swamp currant, sensitive fern, and bluejoint.	No
W86EI	PFO	0.18	7,863.86	Hillslope wetland with dominant upland vegetation. A small patch of harlequin blueflag and a small patch of swamp violet observed, but were not dominant, other plants include, red spruce, balsam fir, tussock sedge, red raspberry, sensitive fern, meadowsweet, and horsetail.	No
W89EI	PEM	0.03	728.45	An naturalized wetland near a recently harvested area. Common plants include tussock sedge, wood aster, yellow birch and red maple.	No
W90EI	PEM/PSS	0.84	36,752.91	An naturalized wetland in a USAF radar field. Common plants include cottongrass bullrush, meadowsweet, Queen Anne's lace, yarrow, wood aster, northern white cedar, and speckled alder.	No



Wetland ID	Cowardian Classification ¹	Area (Acres)	Area (Sq. Ft.)	Summary Notes	Wetland of Special Significance ²
W92EI	PFO	2.97	129,210.06	A forested, regenerating wetland in a USAF radar field. Common plants include black spruce, white pine, northern white cedar, yarrow, sensitive fern, and tussock sedge.	No
W95EI	PFO	0.08	3,287.70	An isolated regenerating wetland in a USAF radar field. Common plants include northern white cedar, red spruce, red maple, eastern hemlock, winterberry holly, interrupted fern, sensitive fern, and reed canary grass.	No
W96EI	PFO	0.09	4,045.39	An isolated regenerating wetland in a USAF radar field. Common plants include northern white cedar, red spruce, red maple, eastern hemlock, winterberry holly, interrupted fern, sensitive fern, and reed canary grass.	No
W98EI	PEM/PSS	0.16	7,078.31	An isolated regenerating wetland in a USAF radar field. Common plants include northern white cedar, red spruce, red maple, eastern hemlock, winterberry holly, interrupted fern, sensitive fern, and reed canary grass.	No
W99EI	PEM/PSS	0.07	2,997.91	A naturalized wetland in a ditch between a substation/powerline and gravel road. Common plants include reed canary grass, interrupted fern, larch, black spruce, meadowsweet, quaking aspen, and red maple	No
W100EI	PEM/PSS	0.08	3,504.00	An emergent wetland in a highly disturbed previously developed site. Common Plants include reed canary grass, interrupted fern, larch, black spruce, meadowsweet, quaking aspen, and red maple.	No
W105EI	PEM/PSS	0.13	5,672.80	A naturalized ditch within a USAF radar field, adjacent to a road. Common plants include horsetail, sensitive fern, meadowsweet, and wood aster.	No
W106EI	PEM/PSS	0.06	2,766.97	A naturalized wet meadow wetland a USAF radar field. Common plants include reed canary grass, meadowsweet, purple vetch, bedstraw	No
W107EI	PEM	0.05	2,011.67	An emergent wetland in a previous landing area for a logging operation with sensitive fern, meadowsweet, and cottongrass bullrush, delineated in the winter 2021.	No
W108KN	PSS	0.08	3,667.27	A scrub shrub wetland with signs of disturbance from forestry operations. Common plants include sheep laurel, rhodora, gray birch, cottongrass bullrush, and wild rasin, delineated in the winter 2021.	No
W109EI	PEM	0.06	2,720.20	An emergent wetland in a previous logging landing area. Common plants include sensitive fern, sheep laurel, rhodora, and meadow sweet, delineated in the winter 2021.	No



Wetland ID	Cowardian Classification ¹	Area (Acres)	Area (Sq. Ft.)	Summary Notes	Wetland of Special Significance ²
W110KN	PFO	0.01	637.33	A forested sloping wetland that extends off site. Common plants include yellow birch, red maple, and quaking aspen, delineated in the winter 2021.	No
W111EI	PFO	0.01	402.13	A small forested wetland that extends off site containing red maple and yellow birch, delineated in the winter 2021.	No
W112EI	PFO	0.10	4,212.32	A forested wetland with a perennial watercourse, S13EI, flowing through. This wetland contains red maple, yellow birch, and northern white cedar, delineated in the winter 2021.	Yes
W113KN	PSS/PFO	0.45	19,706.49	A large forested and scrub shrub wetland complex with two perennial tributaries (S13EI and S03EI) to Chase Pond. Balsam fir, speckled alder, and larch are the dominant tree species, delineated in the winter 2021.	Yes
W114EI	PFO	0.01	290.95	A small forested wetland that appears to be a borrow pit that is mapped as a potential vernal pool, delineated in the winter 2021.	No
W115EI	PFO	0.02	657.28	A small forested wetland that appears to be a borrow pit that is potential vernal pool PVP01EI. Contains yellow birch and speckled alder, delineated in the winter 2021.	No
W116KN	PFO	0.03	1,197.06	A small forested red maple swamp that contains S05KN. Red maple and red spruce are the dominant trees in this wetland, delineated in the winter 2021.	Yes
W117KN	PFO	0.06	2,467.93	A forested seep wetland on a side slope, delineated in the winter 2021.	No
W118KN	PSS/PFO	0.52	22,788.04	A large forested and scrub shrub swamp with beaver activity and possible Inland Wading Bird and Waterfowl Habitat. This wetland is connected to W120EI off site. Common plants includes northern white cedar and speckled alder, delineated in the winter 2021.	Yes
W119KN	PFO/PEM	0.05	1,961.05	A forested and emergent wetland that appears to be a possible borrow pit or naturalized area previously disturbed from timber harvesting activities. Northern white cedar, speckled alder, cottongrass bullrush, and sensitive fern are the common plants, delineated in the winter 2021.	No
W120EI	PEM	0.80	34,939.84	A large emergent swamp mapped as Inland Wading Bird and Waterfowl Habitat and beaver activity. This wetland is connected to W118KN offsite. Common plants includes speckled alder, sensitive fern, cottongrass bullrush, balsam fir, and yellow birch, delineated in the winter 2021.	Yes
W121EI	PEM	0.00	39.30	A small, naturalized emergent wetland on the side of the road. Common plants includes sensitive fern and cottongrass bullrush, delineated in the winter 2021	No



Wetland ID	Cowardian Classification ¹	Area (Acres)	Area (Sq. Ft.)	Summary Notes	Wetland of Special Significance ²
W122KN	PFO	0.04	1,933.89	A naturalized wetland occurring in a skidder trail. Common plants includes yellow birch and northern white cedar, delineated in the winter 2021.	No
W123NJ	PEM	6.09	265,318.11	Previously disturbed wetland within a USAF Radar Station field. Common plants include broad leaf cattail, sensitive fern, quaking aspen, and reed canary grass. A portion of this wetland was delineated in the winter of 2021.	No
W124EI	PSS	4.32	188,341.81	Previously disturbed logging yard and skidder trail(s). Common plants include S. Alba, Scirpus cubensus, red maple and Kalmia sp., delineated in the winter 2021	NO
W125EI	PEM	1.83	79,652.70	Previously disturbed logging road enterance, Common plants include Apirea, rodora calmia solidago, gray birch, delineated in the winter 2021	
W126EI	PSS	0.30	13,053.06	Previously disturbed wetland within a transmission corridor. Common plants include white cedar, white birch, carex stricta, and meadow sweet, delineated in the winter 2021	No
WET-68-02	PEM/PSS	2.09	91,180.30	NECEC Wetland - Previously disturbed wetland within the existing CMP transmission corridor. Common plants include wool-grass, nodding sedge, rattlesnake mannagrass, fowl mannagrass, sensitive fern, cinnamon fern, wrinkle leaved goldenrod and spotted touch-me-not.	No
WET-68-03	PSS	0.06	2,730.83	NECEC Wetland - Previously disturbed wetland within the existing CMP transmission corridor. Common plants include speckled alder, meadowsweet species, pussy willow, balsam fir, sensitive fern, cinnamon fern, soft rush and spotted touch-me-not.	No

^{1 –} PFO = palustrine forested; PEM = palustrine emergent; PSS = palustrine scrub-shrub; PFO/PSS = palustrine forested/palustrine scrub-shrub; PSS/PFO = palustrine scrub-shrub; PFO/PSS = palustrine forested; PEM/PSS = palustrine emergent/palustrine emergent/palustrine scrub-shrub; and PEM/PSS/PFO = palustrine emergent/palustrine emergent/palustrine scrub-shrub; and PEM/PSS/PFO = palustrine emergent/palustrine em

^{2 –} Maine Wetlands of Special Significance (WOSS) designations, as defined in the Maine Department of Environmental Protection Natural Resource Protection Act (38 M.R.S.A. §§480-A et seq.) and the Maine Wetland Protection Rules (Chapter 310). Areas of significant habitat according to the Maine Department of Environmental Protection.

Table 3. Watercourse Delineation Results for the Western Maine Renewable Energy Project, Moscow, Maine.

Watercourse ID	Flow Regime ¹	Length (feet)	Bank full Width (Feet)	Substrate	Bank Depth (Inches)	Notes/Related Resources
S01EI	Intermittent	94	5	50% muck, 20% sand, 20% gravel, 10% cobbles	12	Intermittent watercourse inside W08EI that is connected to VP40DS
S14DS	Intermittent	417	1	Vegetated muck	6	Flows north/northwest and diffuses into Wetland W17DS.
S15DS	Intermittent	67	4	Vegetated	12	Previousy disturbed resource within USAN radar field, flows northwest toward W20DS.
S16DS	Intermittent	27	4	Vegetated muck	10	Short watercourse flowing northwest within wetland.
S21EI	Ephemeral	296	2	30% sand, 10% cobbles, 40% muck, 30% gravel	12	Flows southeast through Study Area toward Stream Road.
S24EI	Intermittent	227	3	40% cobbles, 40% gravel, 10% sand, 10% muck	12	Flows southeast from wetland W49EI, with a small contributing seep, eventually crossing a broken culvert and into wetland W48EI
S26EI	Intermittent	156	2	40% muck, 40% sand, 20% gravel	12	watercourse begins at culvert and flows Northeast toward S27EI and eventually W52EI
S27EI	Intermittent	77	2	40% muck, 40% sand, 20% gravel	12	This is connected to Watercourse S26EI
S28EI	Intermittent	120	2	30% cobbles, 20% muck, 30% sand, 20% gravel	12	This watercourse starts at the road side ditch and flows east over the road (there is no culvert) downslope to Wetland W48EI
S29EI	Ephemeral	102	2	Muck/vegetated bottom	12	Starts as sheet flow that channelizes and flows southeast into Wetland W56EI
S32EI	Intermittent	969	8	40% large cobbles, 40% sand, 20% gravel	12	Starts as sheet flow from an old skidder rut flows south through the Study Area briefily intersecting with wetland W60EI
S33EI	Intermittent	157	4	30% muck, 20% cobbles, 30% sand, 20% gravel	12	Short watercourse flows south to S32EI

Watercourse ID	Flow Regime ¹	Length (feet)	Bank full Width (Feet)	Substrate	Bank Depth (Inches)	Notes/Related Resources
S36EI	Intermittent	73	2	40% muck, 40% sand, 20% gravel	12	Originates from Wetland W63EI and flows northeast beyond the Study Area boundary.
S51EI	Perennial	236	20	50% boulders, 50% cobbles	48	Bassett Brook flows south through an existing 7' culvert.
S52EI	Intermittent	237	4	50% sand, 50% cobbles	24	Tributary to Basset Brook, flows southwest from wetland W17EI and through a culvert.
S53EI	Ephemeral	830	6	50% cobbles, 50% sand	30	Watercourse flows west through wetlands W71EI and W67EI. A Tributary to Bassett Brook.
S54EI	Ephemeral	44	3	50% cobbles, 50% sand	30	Small tributary to S53EI.
S03EI	Ephemeral/ Intermittent	80	30	TBD	20	Watercourse was delineated during the winter, flows south under existing bridge.
S13EI	Perennial	68	12	TBD	TBD	Watercourse was delineated in the winter, large watercourse flowing west into the wetland complex that contributes to Chase Pond on the northeast side of the pond.
S55EI	Ephemeral	40	TBD	TBD	3	Watercourse was delineated in the winter, flows north into wetland W112EI
S56KN	Perennial	183	12	TBD	TBD	Watercourse was delineated in the winter, flows south, then along a roadside ditch (east) and through a culvert in the road toward the wetland connected to Chase Pond.
S57EI	Intermittent	72	TBD	TBD	TBD	Watercourse was delineated in the winter, flows southeast through an existing culvert in the road and toward the large wetland on the north side of Chase Pond.
S58EI	Intermittent	69	TBD	TBD	TBD	Watercourse was delineated in the winter, flows south through existing culvert in road and toward Chase Pond.
S59EI	Perennial	110	4	TBD	TBD	Watercourse was delineated in the winter, flows south through small bridge or box culvert in road and toward Chase Pond.
S60KN	Perennial	162	10	TBD	TBD	Watercourse was delineated in the winter, flows south through culvert, then along a roadside ditch (east) eventually turning south toward Chase Pond.



Watercourse ID	Flow Regime ¹	Length (feet)	Bank full Width (Feet)	Substrate	Bank Depth (Inches)	Notes/Related Resources
S61KN	Intermittent	41	TBD	TBD	TBD	Watercourse was delineated in the winter, flows south toward Chase Pond.
S62EI	Intermittent	86	TBD	TBD	TBD	Watercourse was delineated in the winter, flows east and through a culvert in the road, toward wetland W118KN.
S63KN	Perennial	98	6	TBD	TBD	Watercourse was delineated in the winter, flows south through culvert in road and toward Chase Pond.
S64KN	Intermittent	89	TBD	TBD	TBD	Watercourse was delineated in the winter, flows along ditch on north side of road, crosses road and flows south through wetland W116KN and toward Chase Pond.
S65KN	Intermittent	97	TBD	TBD	TBD	Watercourse was delineated in the winter, flows south toward existing road and then east along road as a ditch.
S66KN	Intermittent	105	TBD	TBD	TBD	Watercourse was delineated in the winter, flows northeast toward beaver impounded wetland W120EI.
S67EI	Intermittent	160	TBD	TBD	TBD	Watercourse was delineated in the winter. S53EI feet 16 & 17?
S68EI	Ephemeral	183	TBD	TBD	TBD	Watercourse was delineated in the winter.

^{1 –} Perennial refers to a watercourse which has surface flow year-round during years of normal rainfall. Intermittent refers to watercourses that only have surface flow for part of the year. Ephemeral refers to watercourses or drainages that depend on rainfall or runoff for surface flow.

Appendix C. Maine State Vernal Pool Assessment Forms





INSTRUCTIONS:

- Complete all 3 pages of form thoroughly. Most fields are required for pool registration.
- <u>Clear photographs</u> of a) the pool AND b) the indicators (one example of each species egg mass) are <u>required</u> for all observers.

Observer's Pool ID: VP19CP	MDIFW Pool ID:	
I. PRIMARY OBSERVER INFORMATION		
a. Observer name: E. Irvin with C. Parrish		
b. Contact and credentials previously provided? •	No (submit Addendum 1)	
2. PROJECT CONTACT INFORMATION		
a. Contact name:		
b. Contact and credentials previously provided? N	No (submit Addendum 1) O Yes	
c. Project Name: Western Maine Renewables		
LANDOWNER CONTACT INFORMATION		
a. Are you the landowner? OYes ONo If no, was	s landowner permission obtained for survey?) No
b. Landowner's contact information (required)		
Name: Patriot Renewables, LLC	Phone:	
Street Address: 549 South Street	City: Quincy State: MA Zip: (0226
a. Location Township: Moscow Brief site directions to the pool (using mapped land	dmarks):	
	·	
Located west of Chase Pond Road and east of Chase S	tream. GIS location provided.	
b. Mapping Requirements		
i. USGS topographic map OR aerial photograph v	with pool clearly marked.	
ii. GPS location of vernal pool (use Datum NAI	D83 / WGS84)	
Longitude/Easting: <u>-69.877781°</u> Latitu	ude/Northing: 45.130875°	
Coordinate system: NAD83		
Check one:		
	.gov; observer has reviewed shape accuracy (Best)	
· · ·	ed by multiple GPS points. (Excellent)	
 Include map or spreadsheet with The above GPS point is at the 		
	ximately m O ft O in the compass direction of	
	e GPS point. (Acceptable)	





VERNAL POOL HABITAT INFORMATION					
a. Habitat survey date (<u>only if different</u> from indicator	r survey dates on page 3):				
o. Wetland habitat characterization					
 Choose the best descriptor for the landscape setting: ⊙ Isolated depression ⊙ Pool as ⊙ Floodplain depression ○ Other: 	sociated with larger wetland complex				
■ Check all wetland types that best apply to this pool: ☐ Forested swamp ☐ Wet meadow ☐ Shrub swamp ☐ Lake or pond cove ☐ Peatland (fen or bog) ☐ Abandoned beaver flowa ☐ Emergent marsh ☐ Active beaver flowage c. Vernal pool status under the Natural Resources Pool i. Pool Origin:	☐ ATV or skidder rut ☐ Other: rotection Act (NRPA)				
If modified, unnatural or unknown, describe any mod	dern or historic human impacts to the pool (required):				
■ Select the pool's <u>estimated</u> hydroperiod AND <u>provided</u> O Permanent O Semi-permanent (drying partially in all years and completely in drought years) Explain: Intermittent inlet	EphemeralUnknown(drying out completely				
 Maximum depth at survey: O 0-12" (0-1 ft.) O 12 Approximate size of pool (at spring highwater): Wideline Predominate substrate in order of increasing hydrogen 	dth: 50 Om Oft Length: 60 Om Oft				
 Mineral soil (bare, leaf-litter bottom, or upland mosses present) Mineral soil (sphagnum moss present) 	 Organic matter (peat/muck) shallow or restricted to deepest portion Organic matter (peat/muck) deep and widespread 				
■ Pool vegetation indicators in order of increasing hyd	droperiod (check all that apply):				
Terrestrial nonvascular spp. (e.g. haircap	☐ Wet site ferns (e.g. royal fern, marsh fern)				
moss, lycopodium spp.) Dry site ferns (e.g. spinulose wood fern, lady fern, bracken fern)	Wet site shrubs (e.g. highbush blueberry, maleberry winterberry, mountain holly)				
 Moist site ferns (e.g. sensitive fern, cinnamon fern, interrupted fern, New York fern) 	✓ Wet site graminoids (e.g. blue-joint grass, tussock sedge, cattail, bulrushes)				
☐ Moist site vasculars (e.g. skunk cabbage,	Aquatic vascular spp. (e.g. pickerelweed, arrowhead				
jewelweed, blue flag iris, swamp candle) ☐ Sphagnum moss (anchored or suspended)	☐ Floating or submerged aquatics (e.g. water lily, water shield, pond weed, bladderwort)☐ No vegetation in pool				
■ Faunal indicators (check all that apply):					
☐ Fish ☑ Bullfrog or Green Frog tadpoles	Other:				
Type of inlet or outlet (a seasonal or permanent chatomark) No inlet or outlet Permanent inlet or outlet Other or Unknown (export outlet)	et (channel with well-defined banks and permanent flow)				





Indicator abund			J_20, J_1	26/2020											
	dance cri				ev effc	 ort									
■ Is pool depres			-		-		I)5 🔘	Yes	No						
■ Was the entire		-	-		•		,		_		cıır	\\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	43		
■ For each indic			_	_											
						_	-						CIES		
determination,	and egg	mass							separa	e surve	ey u				Α.
INDICATOR	INDICATOR Egg Masses (or adult Fairy Shrimp)						Tadp		s/Larvae ⁴						
SPECIES	Visit #1	1000	sit 2	Visit #3	Conf	fidence L	evel ¹	Egg N	/lass Ma	aturity ²	Ol	bserve	ed C	onfide Leve	
Wood Frog	10	1	.0		3	3	111	M	A						
Spotted Salamander	57	5	57		3	3	[]]	M	A						
Blue-spotted Salamander								- 8	1.00						
Fairy Shrimp ³															
Hatching 3-Fairy shrimp: X 4-Tadpoles/larvae Rarity criteria	e: X = presei		ad with	e vernal	noole	Obsarvs	tione	should	ho 200	omnan	ind	hu nh	estoar	anhe	
Note any rare sp	· .			ı vernai	pools.	Observa	tions	should	be acc						
SPECIES	Method	of Verific	cation*	CL**	SPECIE					Met	hod	of Verit	fication	* CL	**
SPECIES	Р	H	S							P)	Н	S	-	
Blanding's Turtle					Wood T]				
Spotted Turtle					Ribbon	Snake					_				
*Method of verific					Other:]				_
**CL - Confidence	5 10 voi	poolee	ucio	Illiano	100.	/0, ∠- ∪∪ .	~ · · · · · · ·	:= >45%	_						
Optional observ ☑ SVP □ Po	otential S	SVP	□ Nor	n Signifi			ndicat	or Bre	eding A	rea					





INSTRUCTIONS:

- Complete all 3 pages of form thoroughly. Most fields are required for pool registration.
- <u>Clear photographs</u> of a) the pool AND b) the indicators (one example of each species egg mass) are <u>required</u> for all observers.

Observer's Pool ID: VP40DS	MDIFW Pool ID:
1. PRIMARY OBSERVER INFORMATION a. Observer name: E. Irvin with D. Santillo	
b. Contact and credentials previously provided? • No (submit Addendum 1) O Yes
2. PROJECT CONTACT INFORMATION	
a. Contact name:	
b. Contact and credentials previously provided? O No (s	submit Addendum 1) O Yes
c. Project Name: Western Maine Renewables	
3. LANDOWNER CONTACT INFORMATION	
a. Are you the landowner? OYes ONo If no, was lar	downer permission obtained for survey?
b. Landowner's contact information (required)	
Name: Patriot Renewables, LLC	Phone:
Street Address: 549 South Street	City: Quincy State: MA Zip: 0226
4. VERNAL POOL LOCATION INFORMATION a. Location Township: Moscow Prior site directions to the pool (using manned landma)	
Brief site directions to the pool (using mapped landma	rks):
Adjacent to road and electrical transmission line.	
b. Mapping Requirements	
i. USGS topographic map OR aerial photograph with	pool clearly marked.
ii. GPS location of vernal pool (use Datum NAD83 Longitude/Easting: 45.154913° Latitude/I Coordinate system: NAD83	/ WGS84) Northing: <u>-69.857770°</u>
Check one: GIS shapefile - send to Jason.Czapiga@maine.gov; The pool perimeter is delineated by - Include map or spreadsheet with cool The above GPS point is at the cent The center of the pool is approxima degrees from the above GP	er of the pool. (Good) Intely m of the compass direction of





VERNAL POOL HABITAT INFORMATION					
a. Habitat survey date (only if different from indicator	r survey dates on page 3):				
b. Wetland habitat characterization					
 ■ Choose the best descriptor for the landscape setting: ○ Isolated depression ○ Pool as ○ Floodplain depression ○ Other: 	sociated with larger wetland complex				
 Check all wetland types that best apply to this pool: ☐ Forested swamp ☐ Wet meadow ☐ Shrub swamp ☐ Lake or pond cove ☐ Peatland (fen or bog) ☐ Abandoned beaver flowage ☐ Active beaver flowage 	☐ Slow stream ☐ Dug pond or ☐ borrow pit age ☐ Mostly unvegetated pool ☐ Roadside ditch ☐ ATV or skidder rut ☐ Other:				
c. Vernal pool status under the Natural Resources P	rotection Act (NRPA)				
i. Pool Origin: ○ Natural ○ Natural-Modified ○ U If modified, unnatural or unknown, describe any model Pool was likely disturbed during construction of the adjacent	dern or historic human impacts to the pool (required):				
ii. Pool Hydrology ■ Select the pool's <u>estimated</u> hydroperiod AND <u>provided</u> O Permanent (drying partially in all years and completely in drought years) Explain: Shallow and fully vegetated depression	EphemeralUnknown(drying out completely				
 Approximate size of pool (at spring highwater): Wide Predominate substrate in order of increasing hydrol Mineral soil (bare, leaf-litter bottom, or upland) 	<u> </u>				
mosses present) O Mineral soil (sphagnum moss present)	restricted to deepest portion Organic matter (peat/muck) deep and widespread				
■ Pool vegetation indicators in order of increasing hyd	droperiod (check all that apply):				
Terrestrial nonvascular spp. (e.g. haircap	☐ Wet site ferns (e.g. royal fern, marsh fern)				
moss, lycopodium spp.) Dry site ferns (e.g. spinulose wood fern, lady fern, bracken fern)	✓ Wet site shrubs (e.g. highbush blueberry, maleberry, winterberry, mountain holly)				
Moist site ferns (e.g. sensitive fern, cinnamon fern, interrupted fern, New York fern)	 ✓ Wet site graminoids (e.g. blue-joint grass, tussock sedge, cattail, bulrushes) 				
Moist site vasculars (e.g. skunk cabbage, jewelweed, blue flag iris, swamp candle)Sphagnum moss (anchored or suspended)	 Aquatic vascular spp. (e.g. pickerelweed, arrowhead Floating or submerged aquatics (e.g. water lily, water shield, pond weed, bladderwort) No vegetation in pool 				
■ Faunal indicators (check all that apply):					
☐ Fish ☑ Bullfrog or Green Frog tadpoles	✓ Other: spring peepers				
iii. Inlet/Outlet Flow Permanency Type of inlet or outlet (a seasonal or permanent cha No inlet or outlet Permanent inlet or outlet Other or Unknown (exp	et (channel with well-defined banks and permanent flow)				





		5/ 0/ 202	20, 3/2	0/2020												
Indicator abund	dance cr				ev effc	ort										
■ Is pool depres			-		-		71)3 ()	Yes	⊙ No	1						
■ Is poor depres ■ Was the entire		-	-		•	-	•		_		Lsu	rveve	42			
■ For each indic	•	•	•							•		-			-	
	-					•										
determination,	and egg	mass					·		separa	ite surv	ey c				A	
INDICATOR	10-7	1 - 10		gg Masse	s (or ac	dult Fairy	Shrim	(p)				Tadp	oles/			
SPECIES	Visit #1	1000	sit 2	Visit #3	Cont	fidence L	evel ¹	Egg I	Mass M	aturity ²	0	bserv	ed	Conf	evel	
Wood Frog	18	1	.8		3	3	111	M	A							
Spotted Salamander	40	4	10		3	3	12	M	A							
Blue-spotted Salamander								- 10								
Fairy Shrimp ³								T. W.								
2-Egg mass matur Hatching 3-Fairy shrimp: X 4-Tadpoles/larvae	= present e: X = preser	ent	ŕ	·	`			·				,				
Note any rare sp	·			1 vernai	pools.	Observa	ations	snouic	l be acc					-	<u>าร</u> .	
SPECIES	Method	of Verific	cation*	CL**	SPECIE	=0				Ме	thod	of Ver	ificatio	n*	CL**	
	P	Н	S								P	_н_	S			_
Blanding's Turtle				ļ	Wood 7									\perp		_
Spotted rurtle			\equiv	<u> </u>	Kibbon	Snake						1 1	1 1	1		
Dingod Poghaunter				•	Other.						_		+=			_
	cation: P =		graphed					R= >95%	/ ₀		_		+=			_
*Method of verification: P = Photographed, H = Handled, S = Seen **CL - Confidence level in species determination: 1= <60%, 2= 60-95%, 3= >95% **Optional observer recommendation:																
*Method of verific **CL - Confidence **CL - Confidence Dptional observ SVP Pc General vernal p	rm and su ission (to project: Reviewed by nt	Photog species mmenos SVP nments	graphed determ North Nor	nination: fination: finati	andled, \$1 = <60% icant VF ervation tion to: maine.ç	Maine Attn: V 650 St	Dept. Gernal ate St	of Inla Pools reet, B	nd Fish angor, field fo	neries a ME 04 orms ar ust be	and 401 and p ma	Wildli bhoto iled a	fe grap is ha	hs i		

Appendix D. Wetland Determination Data Forms



Project/Site:	Western Mai	ne Renewable Energy I	Project				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Mai	ne Renewables, LLC	•				·			County:	Somerset
Investigator #1	: Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:		Pillsbury association, 3 to	o 15 percent s	-			/I/WWI Classification:	: Upland		Wetland ID:	W08EI
Landform:	Terrace				cal Relief:					Sample Point:	Upland
Slope (%):	See topo map	Latitude:			ongitude:				NAD 83	-	
		ditions on the site ty	•			no, explain	·		No No		
_		or Hydrology ☐ sig	•				Are normal circumst	•	τ?		
		or Hydrology	turally prob	iematic?			□ Yes	☑ No			
SUMMARY OF		10			— N			11 1: 0 1	D 10		
Hydrophytic Ve	_			☐ Yes				Hydric Soils		Mithin A Matlar	☐ Yes ☑ No
Wetland Hydro Remarks:	Statewide o			□ Yes	s ☑ No			lis This Samp	oling Point	Within A Wetlar	ia? Li tes Li no
Nemarks.	Statewide	arougrit									
HYDROLOGY											
	rology India	ators (Chook horo i	findicators	aro not	procent	——————————————————————————————————————					
Primary		ators (Check here i	indicators	are not	present	过			Secondary:		
<u> </u>	<u>. </u>	Water			B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	Cracks
<u> </u>	A2 - High Wa				B13 - Aqւ					B10 - Drainage P	
	A3 - Saturation				B15 - Mai				_	B16 - Moss Trim	
l H	B2 - Sedime				C1 - Hydr C3 - Oxid	-	ospheres on Living Roots			C2 - Dry-Season C8 - Crayfish Bur	
	B3 - Drift De	•					educed Iron			_	isible on Aerial Imagery
	B4 - Algal Ma			_			eduction in Tilled Soils			D1 - Stunted or S	
	B5 - Iron Dep	oosits on Visible on Aerial Ima	agery		C7 - Thin Other (Ex					D2 - Geomorphic D3 - Shallow Aqu	
		y Vegetated Concave S		Н	Other (LX	cpiaiii iii i k	Siliai K5)			D4 - Microtopogra	
										D5 - FAC-Neutra	
Field Observa	tions:										
Surface Water	Present?	☐ Yes ☑ No	Depth:		(in.)			Wotland Hy	drology Dr	rocont?	Yes ☑ No
Water Table Pr	resent?	☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	arology Pi	esent?	Tes MINO
Saturation Pres	sent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Record	ded Data (str	eam gauge, monitorii	ng well, aer	ial photos	s, previous	s inspecti	ons), if available:		N/A		
							,,				
Remarks:	Statewide of	drought				'					
Remarks:	Statewide o	drought		·	•		,,				
Remarks:	Statewide of	drought				· ·	,,				
SOILS Map Unit Name	e:	Colonel-Peru-Pillsbury				es S	Series Drainage Class:	: Poorly draine	ed		
SOILS Map Unit Name Taxonomy (Sul	e: bgroup):	Colonel-Peru-Pillsbury Loamy, isotic, frigid	l, shallow A	quic Ha	plorthods	es S	Series Drainage Class:	•			
SOILS Map Unit Name Taxonomy (Sul	e: bgroup): ption (Describe to	Colonel-Peru-Pillsbury Loamy, isotic, frigid	l, shallow A	Aquic Ha	plorthods	es S		Covered/Coated Sand Gra		ore Lining, M=Matrix)	Tautura
SOILS Map Unit Name Taxonomy (Sul Profile Descri	e: bgroup): ption (Describe to Bottom	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the inc	I, shallow A	aquic Ha absence of indi Matrix	plorthods icators.) (Type: C	es S	Series Drainage Class: D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	ins; Location: PL=Po	1	Texture
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth	e: bgroup): ption (Describe to Bottom Depth	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the ind Horizon	I, shallow A	Aquic Ha absence of indi Matrix Moist)	plorthods icators.) (Type: C	es S	Series Drainage Class:	Covered/Coated Sand Grain Mottles	Type	Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I	Aquic Ha absence of indi Matrix Moist) 3/3	plorthods icators.) (Type: C	es S C=Concentration,	Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra	Type	Location 	
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I	Matrix Moist) 3/3	plorthods icators.) (Type: C	c=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Gra Mottles %	Type	Location 	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I	Mquic Ha absence of indi Matrix Moist) 3/3	plorthods icators.) (Type: C	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Gra Mottles %	Type	Location 	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I	Aquic Ha absence of indi Matrix Moist) 3/3	plorthods icators.) (Type: C	Des S	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I	Matrix Moist) 3/3	plorthods icators.) (Type: C	ces S	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I	Matrix Moist) 3/3	plorthods icators.) (Type: C	Des S	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I	Aquic Ha e absence of indi Matrix Moist) 3/3	plorthods icators.) (Type: C	ces S	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descrip Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the ind Horizon	I, shallow A	Aquic Ha absence of indi Matrix Moist) 3/3 -	Plorthods Cators.) (Type: Cators.) (Type: Cators.) Type: Cators.)	ces S	Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12 Soil Field In	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the ind Horizon	I, shallow A	Aquic Ha absence of indi Matrix Moist) 3/3 tors are	plorthods icators.) (Type: C	es S C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Gra Mottles % Indicator	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the inc Horizon	I, shallow A	Aquic Ha absence of indi Matrix Moist) 3/3 tors are	plorthods icators.) (Type: C	es S C=Concentration, ent	Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the inc Horizon	I, shallow A	Aquic Ha absence of indi Matrix Moist) 3/3 tors are	plorthods icators.) (Type: C	es S ==Concentration, value Belo Dark Surf ny Mucky	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black Histosol A4 - Hydroge	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the inc Horizon	I, shallow A	Aquic Ha absence of indi Matrix Moist) 3/3 tors are	plorthods icators.) (Type: C	es S ==Concentration, value Below Dark Surf my Mucky my Gleyed	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam (LRR K, L, R)
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR ere if indica	Aquic Ha absence of indi Matrix Moist) 3/3 tors are	plorthods icators.) (Type: C	es S ==Concentration, value Belo Dark Surf ny Mucky	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam (LRR K, L, R) (LRR K, L, R)
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR ere if indica	Aquic Ha absence of indi Matrix Moist) 3/3 tors are	plorthods icators.) (Type: C	es S c=Concentration, value Belo Dark Surf my Mucky my Gleyed eted Matri ox Dark Su eted Dark	Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R)
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy N	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR ere if indica	Aquic Ha absence of indi Matrix Moist) 3/3 tors are	plorthods icators.) (Type: C	es S c=Concentration, value Belo Dark Surf my Mucky my Gleyed eted Matri ox Dark Su eted Dark	Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam (LRR K, L, R)
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick E S1 - Sandy N S4 - Sandy O	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR ere if indica	Mquic Ha absence of indi Matrix Moist) 3/3 tors are	plorthods icators.) (Type: C	es S c=Concentration, value Belo Dark Surf my Mucky my Gleyed eted Matri ox Dark Su eted Dark	Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam (LRR K, L, R)
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy N	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR ere if indica	Mquic Ha absence of indi Matrix Moist) 3/3 tors are	plorthods icators.) (Type: C	es S c=Concentration, value Belo Dark Surf my Mucky my Gleyed eted Matri ox Dark Su eted Dark	Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L)
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR ere if indica	Mquic Ha absence of indi Matrix Moist) 3/3 tors are	plorthods icators.) (Type: C	es S c=Concentration, value Belo Dark Surf my Mucky my Gleyed eted Matri ox Dark Su eted Dark	Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the interpretation Horizon	Color (I 10YR ere if indica	Mquic Ha absence of indi Matrix Moist) 3/3 tors are	plorthods icators.) (Type: C	es S c=Concentration, value Belo Dark Surf my Mucky my Gleyed eted Matri ox Dark Su eted Dark	Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0 NRCS Hydric	bgroup): ption (Describe to Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the int Horizon	Color (I 10YR ere if indica	Matrix Moist) 3/3 -	plorthods icators.) (Type: C	es S c=Concentration, value Belo Dark Surf my Mucky my Gleyed eted Matri ox Dark Su eted Dark	Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face must be present, unless
SOILS Map Unit Name Taxonomy (Sul Profile Descri Top Depth 0	e: bgroup): ption (Describe to Depth 12	Colonel-Peru-Pillsbury Loamy, isotic, frigid the depth needed to document the int Horizon	Color (I 10YR ere if indica	Mquic Ha absence of indi Matrix Moist) 3/3 tors are	plorthods icators.) (Type: C	es S c=Concentration, value Belo Dark Surf my Mucky my Gleyed eted Matri ox Dark Su eted Dark	Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) sandy loam

TETRA TECH

WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W08EI Sample Point Upland

VEGETATION	(Species identified in all upperca	se are non-native	species.)			
Tree Stratum (Plo	t size: 10 meter radius)					
	<u>Species Name</u>	_	% Cover		Ind.Status	Dominance Test Worksheet
1.	Betula papyrifera		5	N	FACU	
2.	Betula alleghaniensis		20	Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC:3(A)
3.	Picea rubens		10	Υ	FACU	
4.						Total Number of Dominant Species Across All Strata:8(B)
5.						
6.						Percent of Dominant Species That Are OBL, FACW, or FAC: 37.5% (A/B)
7.						
8.						Prevalence Index Worksheet
9.						Total % Cover of: Multiply by:
10.						OBL spp. 0 x 1 = 0
		Total Cover =	35			FACW spp 2
						FAC spp x 3 = 171
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)		40		54011	FACU spp. 50 x 4 = 200
1.	Picea rubens		10	<u>Y</u>	FACU	UPL spp 10
2.	Acer rubrum		2	N	FAC	
3.	Viburnum acerifolium		10	Υ	UPL	Total 119 (A) 425 (B)
4.						
5.						Prevalence Index = B/A = 3.571
6.						
7.						Hadrankada Wasatadan Indiantana
8.						Hydrophytic Vegetation Indicators:
9.						☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.		T-1-1 O				☐ Yes ☑ No Dominance Test is > 50%
		Total Cover =	22			
						☐ Yes ☑ No Morphological Adaptations (Explain) *
•	t size: 2 meter radius)		15		FACIL	☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Dryopteris marginalis Cornus canadensis		15	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
2. 3.			20 10	Y	FAC FACU	present, unless disturbed or problematic.
4.	Medeola virginiana Coptis trifolia		2	N	FACW	Definitions of Vegetation Strata:
5.	Clintonia borealis		5	N	FAC	Deminions of Vegetation Strata.
6	Osmunda claytoniana		10		FAC	Tree - Washington's Oir (7 Com) and are in discussed at his said
7.				у 		Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.						
9.						Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.						tall.
11.						
12.						Herb - All herbaceous (non-woody) plants, regardless of size, and
13.						woody plants less than 3.28 ft. tall.
14.						
15.						Woody Vines - All woody vines greater than 3.28 ft. in height.
10.		Total Cover =	62			
		Total Gover	02			
Woody Vine Strati	um (Plot size: 10 meter radius)					
1.						
2.						
3.						Hydrophytic Vegetation Present □ Yes ☑ No
4.						
5.						
		Total Cover =	0			
Remarks:			_	_	_	
			_	_	_	
Additional Ren	narks:					



	Western Mai Emmy Irvin Telos-Chesu Terrace See topo map drologic cond	Telos-Chesuncook association, 3 to 15 % slopes Terrace Local Relie					n remarks)	Datum: □ Yes ☑	: NAD 83 No	Date: County: State: Wetland ID: Sample Point:	09/09/20 Somerset ME W08EI Wetland
•		, ,,	•				Are normal circumst	•	it?		
		or Hydrology □ nat	urally probl	ematic?			□ Yes	☑ No			
SUMMARY OF Hydrophytic Ve		sont?		✓ Yes	s □ No			Hydric Soils	Drocont?		□ Yes □ No
Wetland Hydro	•			✓ Yes						Within A Wetlan	
Remarks:	Statewide of							no mino cam		vviami / v voiam	1 100 - 110
HYDROLOGY											
Wetland Hydr	ology Indic	ators (Check here it	indicators	are not	present	Þ					
Primary	A1 - Surface A2 - High Wa A3 - Saturati B1 - Water M B2 - Sedime B3 - Drift De B4 - Algal Ma B5 - Iron Dep B7 - Inundati	ater Table on Marks nt Deposits posits at or Crust			C4 - Pres	latic Fauna I Deposits ogen Sulfi ized Rhizo ence of Re ent Iron Re Muck Sur	a de Odor ospheres on Living Roots educed Iron eduction in Tilled Soils face		Secondary:	B6 - Surface Soil B10 - Drainage Pa B16 - Moss Trim C2 - Dry-Season C8 - Crayfish Buri	atterns Lines Water Table rows sible on Aerial Imagery tressed Plants Position tard aphic Relief
Field Observation Surface Water Water Table Programmer Saturation Preserved	Present? resent? sent?	☐ Yes ☑ No ☐ Yes ☑ No ☑ Yes ☐ No	Depth: Depth: Depth:	0	(in.) (in.) (in.)			Wetland Hy		resent? ☑	Yes □ No
		eam gauge, monitorir	ig well, aeri	al photos	s, previous	inspection	ons), if available:		N/A		
Remarks:	Statewide of	drought									
SOILS											
Map Unit Name	e:	Telos-Chesuncook	associatior	n, 3 to 1	5 % slope	s S	eries Drainage Class:	somewhat p	oorly draine	ed	
Taxonomy (Sul	ogroup):	Loamy, isotic, frigid	, shallow A	quic Ha	plorthods		Ţ.	•	•		
		the depth needed to document the ind			cators.) (Type: C=	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C		ins; Location: PL=Po	ore Lining, M=Matrix)	
Тор	Bottom			Matrix	0/		0 1 (14 : 1)	Mottles	T =		Texture
Depth 0	Depth	Horizon	Color (I	Ι ΄	%		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
1	18		2.5Y	3/2	65	 5Y	4/1	25	 D	 M	Organic hemic silt loam
<u></u>						5YR	3/4	10	C	M	
	A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick I S1 - Sandy N S4 - Sandy F S6 - Stripped	istic en Sulfide d Layers ed Below Dark Surface Dark Surface Muck Mineral Gleyed Matrix Redox	re it indica	tors are	S8 - Polyv S9 - Thin	value Belo Dark Surf ny Mucky I ny Gleyed eted Matri ox Dark Su eted Dark	x ırface Surface	l lndicators	A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	matic Soils 1 Muck (LRR K, L, MLRA 1 t Prairie Redox (LRR ucky Peat of Peat (urface (LRR K, L, M) lue Below Surface (LRR K, L Manganese Masses nont Floodplain Soil t Spodic (MLRA 144A, 1 Parent Material of Shallow Dark Surfain in Remarks) sation and wetland hydrology	K, L, R) (LRR K, L, R) (LRR K, L) (S (LRR K, L, R) (S (MLRA 149B) 45, 149B)
Restrictive Layer (If Observed)	Туре:	ledge		Depth:	18 inches			Hydric Soil	Present?		Yes □ No
Remarks:											

Sample Point Wetland

TETRA TECH

Project/Site:

Western Maine Renewable Energy Project

WETLAND DETERMINATION DATA FORM

Wetland ID:

W08EI

Northeast and Northcentral Region

VEGETATION (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 10 meter radius) Species Name **Dominance Test Worksheet** % Cover Dominant Ind.Status 1. Number of Dominant Species that are OBL, FACW, or FAC: 4 (A) 2. ------3. --4. Total Number of Dominant Species Across All Strata: 4 (B) --5. Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 6. 7. 8. **Prevalence Index Worksheet** 9. Total % Cover of: Multiply by: --OBL spp. ___ x 1 =10. 105 FACW spp. Total Cover = 0 x 2 =x 3 = FAC spp. FACU spp. Sapling/Shrub Stratum (Plot size: 5 meter radius) x 4 =0 UPL spp. 0 x = 51. 2. 3. Total 140 175 4. 5. Prevalence Index = B/A = 1.250 6. 7. 8. **Hydrophytic Vegetation Indicators:** --------9. Yes □ No Rapid Test for Hydrophytic Vegetation 10. Dominance Test is > 50% Yes □ No Total Cover = 0 Yes □ No Prevalence Index is ≤ 3.0 * Yes ✓ No Morphological Adaptations (Explain) * Herb Stratum (Plot size: 2 meter radius) Problem Hydrophytic Vegetation (Explain) * Yes ✓ No 30 OBL Typha angustifolia 1. * Indicators of hydric soil and wetland hydrology must be 2. Onoclea sensibilis 20 Υ **FACW** present, unless disturbed or problematic. Scirpus cyperinus 3. 15 Ν OBL 40 Υ OBL **Definitions of Vegetation Strata:** 4. Carex stricta Y 20 OBL 5. Eutrochium maculatum 5 6 Ν **FACW** Symphyotrichum novae-angliae Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. Spiraea tomentosa 10 Ν **FACW** 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. 9. -----tall. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, and 12. woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 140 Woody Vine Stratum (Plot size: 10 meter radius) 1. 2. 3. **Hydrophytic Vegetation Present** ✓ Yes □ No 4. 5. --Total Cover = 0 Remarks: **Additional Remarks:**



Project/Site:	Western Mai	ne Renewable Energy l	Project				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Mai	ne Renewables, LLC								County:	Somerset
Investigator #1	: Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:	Telos-Chesu	ncook association, 3 to	15 percent s	slopes		NV	/I/WWI Classification:	Upland		Wetland ID:	W20EI
Landform:	Terrace			Loc	cal Relief:	Linear				Sample Point:	Upland
Slope (%):	See topo map	Latitude:	45.150300	L	ongitude:	-69.8536	12	Datum	: NAD 83		
Are climatic/hy	drologic con	ditions on the site ty	pical for thi	s time of	f year? (If	no, explain i	n remarks)	□ Yes ☑	No		
Are Vegetation	□ , Soil □ ,	or Hydrology □ sig	nificantly di	sturbed'	?		Are normal circumst	ances preser	ıt?		
•		or Hydrology □ nat	•					☑ No			
SUMMARY OF		, 0,	7 1								
Hydrophytic Ve		sent?		□ Yes	s ☑ No			Hydric Soils	Present?		□ Yes ☑ No
Wetland Hydro	•			□ Yes						Within A Wetlan	
Remarks:	Drought							io iiiio caiii	pg . o		
rtemants.	Drought										
HADBOLOCA											
HYDROLOGY											
Wetland Hydr	ology Indic	ators (Check here i	if indicators	are not	present	运					
<u>Primary</u>						_			Secondary:		-
	A1 - Surface				B9 - Wate					B6 - Surface Soil	
	A2 - High Wa				B13 - Aqu					B10 - Drainage P	
	A3 - Saturati B1 - Water N				B15 - Mar	•				B16 - Moss Trim	
	B2 - Sedime				C1 - Hydr		ospheres on Living Roots			C2 - Dry-Season C8 - Crayfish Burn	
	B3 - Drift De						educed Iron				isible on Aerial Imagery
	B4 - Algal Ma	•					eduction in Tilled Soils			D1 - Stunted or S	0 ,
	B5 - Iron Dep				C7 - Thin					D2 - Geomorphic	
		on Visible on Aerial Ima	agerv		Other (Ex					D3 - Shallow Aqui	
		y Vegetated Concave S			•	'	,			D4 - Microtopogra	
										D5 - FAC-Neutral	Test
Field Observa	tions:										
Surface Water		□ Yes ☑ No	Depth:		(in.)						
Water Table Pi		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes ☑ No
			•		` ,						
Saturation Pres	sent?	□ Yes ☑ No	Depth:		(in.)						
Describe Record	ded Data (str	eam gauge, monitorii	ng well, aeri	al photos	s, previous	inspecti	ons), if available:		N/A		
Remarks:	Statewide	drought									
		•									
SOILS											
Map Unit Name		Telos-Chesuncook ass	sociation 3 to	o 15 perce	ent slopes	S	eries Drainage Class:	Somewhat n	oorly draine	ed	
Taxonomy (Sul		Loamy, isotic, frigid							,		
	- 		<u>, </u>				D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra	ains: Location: PL=Po	re Lining, M=Matrix)	
Тор	Bottom			Matrix		1		Mottles	,		Texture
Depth	Depth	Horizon	Color (I		%		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
0	17		10YR	4/2	100		1				, , ,
											sandy loam
NPCS Hydric	Soil Field I	ndicators (check he	are if indica	tors are	not prese	nt ☑):		Indicato	rs for Proble	matic Soils ¹	
	A1- Histosol	idicators (Check he	sie ii iiidica	lois aic			w Surface (LRR R, MLRA 149B)			Muck (LRR K, L, MLRA 1	1400)
	A2 - Histic E	ninedon			•		ace (LRR R, MLRA 149B)			Prairie Redox (LRR	
	A3 - Black H						Mineral (LRR K, L)			ucky Peat of Peat	· · ·
	A4 - Hydroge				F2 - Loan	-				urface (LRR K, L, M)	(LIKICIA, L, IV)
	A5 - Stratifie				F3 - Deple	, ,				ue Below Surface	(LRR K. L.)
		ed Below Dark Surface	!		F6 - Redo				•	ark Surface (LRR к, L	
		Dark Surface			F7 - Deple			_		langanese Masses	,
	S1 - Sandy N				F8 - Redo					ont Floodplain Soi	
	•	Gleyed Matrix		_		•				Spodic (MLRA 144A, 1	
	S5 - Sandy F	•							TF2 - Red F	arent Material	
	S6 - Stripped								TF12 - Very	Shallow Dark Surf	face
									Other (Expla	ain in Remarks)	
	S7 - Dark Su	Irface (LRR R, MLRA 149B)							` '	,	
	S7 - Dark Su	Irface (LRR R, MLRA 149B)						¹ Indicators	of hydrophytic veget	ation and wetland hydrology	must be present, unless
Restrictive Layer				Donth				¹ Indicators disturbed	of hydrophytic veget or problematic.	ation and wetland hydrology	·
Restrictive Layer (If Observed)		Irface (LRR R, MLRA 149B) None		Depth:				¹ Indicators	of hydrophytic veget or problematic.	,	must be present, unless Yes ☑ No
•				Depth:				¹ Indicators disturbed	of hydrophytic veget or problematic.	ation and wetland hydrology	·

TETRA TECH

WETLAND DETERMINATION DATA FORM

Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W20EI Sample Point Upland **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 10 meter radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status Betula papyrifera 1. 15 Υ **FACU** Betula alleghaniensis Number of Dominant Species that are OBL, FACW, or FAC: ____3__(A) 2. 35 Υ FAC 3. Acer rubrum 5 Ν FAC 4. Total Number of Dominant Species Across All Strata: 8 (B) --5. Percent of Dominant Species That Are OBL, FACW, or FAC: 37.5% (A/B) 6. 7. 8. **Prevalence Index Worksheet** 9. Total % Cover of: Multiply by: -x 1 = OBL spp. 10. FACW spp. Total Cover = 55 x 2 =x 3 =FAC spp. 231 50____ FACU spp. Sapling/Shrub Stratum (Plot size: 5 meter radius) x 4 =200 Betula alleghaniensis FAC 10 UPL spp. 10 x = 51. 50 2. Betula papyrifera Υ **FACU** 10 Viburnum acerifolium 3. **UPL** 10 Total 139 485 4. 5. Prevalence Index = B/A = 3.489 6. 7. 8. **Hydrophytic Vegetation Indicators:** --------9. Yes ✓ No Rapid Test for Hydrophytic Vegetation 10. Dominance Test is > 50% Yes ✓ No Total Cover = 30 Yes ✓ No Prevalence Index is ≤ 3.0 * Yes ✓ No Morphological Adaptations (Explain) * Herb Stratum (Plot size: 2 meter radius) Problem Hydrophytic Vegetation (Explain) * Yes ✓ No 15 FACU Dryopteris marginalis 1. * Indicators of hydric soil and wetland hydrology must be 2. Cornus canadensis 20 Υ FAC present, unless disturbed or problematic. 3. 10 **FACU** Medeola virginiana 2 Ν **FACW Definitions of Vegetation Strata:** 4. Coptis trifolia 2 Ν Clintonia borealis FAC 5. 6 5 Ν FAC Osmunda claytoniana Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 7. 8. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. 9. -----tall. 10. 11. Herb - All herbaceous (non-woody) plants, regardless of size, and 12. woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 54 Woody Vine Stratum (Plot size: 10 meter radius) 1. 2. 3. **Hydrophytic Vegetation Present** □ Yes ☑ No 4. 5. --Total Cover = 0 Remarks: **Additional Remarks:**



D!1/0:4											
Project/Site:	Western Mai	ne Renewable Energy l	Project				Project #:	194-7130		Date:	09/09/20
Applicant:	Western Mai	ne Renewables, LLC								County:	Somerset
Investigator #1:	: Emmy Irvin			Invest	igator #2:					State:	ME
Soil Unit:		ok association, 3 to 15 percent :	slopes, very stony				/I/WWI Classification:	: PFO		Wetland ID:	W20EI
Landform:	Terrace				cal Relief:	Linear				Sample Point:	Wetland
Slope (%):	See topo map	Latitude:	45.150300		ongitude:		12	Datum:	: NAD 83		
		ditions on the site ty						□ Yes □	No.		
		or Hydrology □ sig	•		· ·		Are normal circumst				
•		, ,,	•					.ances presen ☑ No	it:		
ŭ		or Hydrology □ nat	urally prob	iemalic?			- res	M MO			
SUMMARY OF		10		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N.I.				D 10		_ \/
Hydrophytic Ve	•			☑ Yes				Hydric Soils		A////	□ Yes □ No
Wetland Hydro				✓ Yes	s □ No			Is This Sam	pling Point \	Nithin A Wetlan	id? ☑ Yes □ No
Remarks:	Statewide of	drought									
HYDROLOGY											
	ماله ما بروماله	otomo (Chools homo i	f in dia atawa			<u>\</u>					
	•	ators (Check here i	t indicators	are not	present	户			0 1		
Primary		Motor		_	DO Mata	. Ctainad	Laguas		Secondary:	DC Cumfooo Coil	Cranka
	A1 - Surface				B9 - Wate					B6 - Surface Soil	
	A2 - High Wa A3 - Saturati				B13 - Aqเ B15 - Mar					B10 - Drainage Pa B16 - Moss Trim	
	B1 - Water M				C1 - Hydr	•				C2 - Dry-Season	
	B2 - Sedime						spheres on Living Roots			C8 - Crayfish Buri	
	B3 - Drift De						educed Iron			-	isible on Aerial Imagery
	B4 - Algal Ma				C6 - Rece	ent Iron Re	duction in Tilled Soils			D1 - Stunted or S	0,
	B5 - Iron Dep	oosits			C7 - Thin	Muck Sur	ace			D2 - Geomorphic	Position
		on Visible on Aerial Ima			Other (Ex	plain in Re	emarks)			D3 - Shallow Aqui	
	B8 - Sparsel	y Vegetated Concave S	Surface							D4 - Microtopogra	•
										D5 - FAC-Neutral	Test
Field Observa	tions:										
Surface Water	Present?	□ Yes □ No	Depth:		(in.)			187 41 111		-	
Water Table Pr		□ Yes □ No	Depth:		(in.)			Wetland Hy	drology Pr	esent?	Yes □ No
Saturation Pres		□ Yes □ No	Depth:		(in.)						
			<u> </u>								
		eam gauge, monitorii	ng well, aeri	al photos	s, previous	nspecti	ons), if available:		N/A		
Remarks:	Statewide of	drought									
		a.g									
SOILS		ug									
SOILS Map Unit Name			tion. 3 to 15 pe	cent slopes	s. verv stonv	S	eries Drainage Class:	: somewhat p	oorly draine	ed	
Map Unit Name	e:	Telos-Chesuncook associa		-			eries Drainage Class:	: somewhat p	oorly draine	d	
Map Unit Name Taxonomy (Sub	e: bgroup):	Telos-Chesuncook associa Loamy, isotic, frigid	l, shallow A	quic Ha	plorthods		•	•	•		
Map Unit Name Taxonomy (Sub Profile Descri	e: ogroup): ption (Describe to	Telos-Chesuncook associa Loamy, isotic, frigid	l, shallow A	quic Ha	plorthods		eries Drainage Class: D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra	•		Teyture
Map Unit Name Taxonomy (Sub Profile Descrip Top	e: bgroup): ption (Describe to Bottom	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the inc	I, shallow A	aquic Ha absence of indi Matrix	plorthods icators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	nins; Location: PL=Po	re Lining, M=Matrix)	Texture
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	e: bgroup): ption (Describe to Bottom Depth	Telos-Chesuncook associa Loamy, isotic, frigid	l, shallow A	aduic Ha absence of indi Matrix Moist)	plorthods icators.) (Type: C		•	Covered/Coated Sand Gra	•		(e.g. clay, sand, loam)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the inc	color (I	absence of indi Matrix Moist) 2/1	plorthods icators.) (Type: C		D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	nins; Location: PL=Po	re Lining, M=Matrix)	(e.g. clay, sand, loam) fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	e: bgroup): ption (Describe to Bottom Depth	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the inc	l, shallow A	aduic Ha absence of indi Matrix Moist)	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra Mottles %	Type	re Lining, M=Matrix) Location	(e.g. clay, sand, loam)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 12	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the ind Horizon	color (I	absence of indi Matrix Moist) 2/1	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Gra Mottles %	Type	re Lining, M=Matrix) Location	(e.g. clay, sand, loam) fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	e: bgroup): ption (Describe to Bottom Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I 10YR 10YR	Aquic Halabsence of indi Matrix Moist) 2/1 3/2	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Gra Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	e: pgroup): ption (Describe to Bottom Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I 10YR 10YR	absence of indi Matrix Moist) 2/1 3/2	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Gra Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	bgroup): ption (Describe to Bottom Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I 10YR 10YR	absence of indi Matrix Moist) 2/1 3/2	Plorthods (Type: C % 100 100	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Gra Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	e: bgroup): ption (Describe to Bottom Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I 10YR 10YR	Aquic Halabsence of individuals Matrix Moist) 2/1 3/2	Margin Property Property	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Gra Mottles %	Type	re Lining, M=Matrix) Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	e: bgroup): ption (Describe to Bottom Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I 10YR 10YR	absence of indi Matrix Moist) 2/1 3/2	Plorthods Cators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Gra Mottles %	Type	re Lining, M=Matrix) Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	e: bgroup): ption (Describe to Bottom Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I 10YR 10YR	Aquic Halabsence of individuals absence of individuals Matrix Moist) 2/1 3/2	Was Was Was Was Was Was Was Was Was Was	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Gra Mottles %	Type	re Lining, M=Matrix) Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	bgroup): ption (Describe to Bottom Depth 12 20 Soil Field In	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I 10YR 10YR	Aquic Halabsence of individuals absence of individuals Matrix Moist) 2/1 3/2	plorthods icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	e: bgroup): ption (Describe to Bottom Depth 12 20 Soil Field In A1- Histosol	Telos-Chesuncook associa Loamy, isotic, frigio the depth needed to document the inc Horizon	Color (I 10YR 10YR	Aquic Halabsence of individuals absence of individuals Matrix Moist) 2/1 3/2	plorthods icators.) (Type: C	=Concentration, ent □: /alue Belo	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B)	Covered/Coated Sand Gra Mottles % Indicator	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12 20 Soil Field In A1- Histosol A2 - Histic E	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR 10YR	Aquic Halabsence of individuals absence of individuals Matrix Moist) 2/1 3/2	plorthods icators.) (Type: C % 100 100 not prese S8 - Polys S9 - Thin	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B)	Mottles %	Type	Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	bgroup): ption (Describe to Bottom Depth 12 20 Soil Field In A1- Histosol A2 - Histic E A3 - Black H	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR 10YR	Aquic Halabsence of individuals absence of individual absence of in	plorthods icators.) (Type: C % 100 100 not prese S8 - Polyo S9 - Thin F1 - Loan	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Mottles %	Type	Location Location	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12 20 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge	Telos-Chesuncook associa Loamy, isotic, frigio the depth needed to document the inc Horizon	Color (I 10YR 10YR	Aquic Halabsence of individuals absence of individuals Matrix Moist) 2/1 3/2 tors are	plorthods icators.) (Type: C % 100 100 not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan	=Concentration, yalue Belo Dark Surfany Mucky	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Mottles %	Type	Location Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (49B) RK, L, R) (LRR K, L, R)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	bgroup): ption (Describe to Bottom Depth 12 20 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratifie	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR 10YR ere if indica	Aquic Halabsence of individuals absence of individual absence of in	plorthods icators.) (Type: C % 100 100 not prese S8 - Polyx S9 - Thin F1 - Loan F2 - Loan F3 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) Ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Mottles %	Type	Location Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	bgroup): ption (Describe to Depth 12 20 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplet	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR 10YR ere if indica	Aquic Halabsence of individuals absence of individual absence of in	plorthods icators.) (Type: C % 100 100 not prese S8 - Polyx S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	eConcentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix crface	Covered/Coated Sand Gra Mottles %	Type	Location Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 12 20 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick I	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR 10YR ere if indica	Aquic Halabsence of individuals absence of individual absence of	plorthods icators.) (Type: C % 100 100 not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Curface Surface Surface	Covered/Coated Sand Gra Mottles % Indicator	Type	Location Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	bgroup): ption (Describe to Bottom Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR 10YR ere if indica	Aquic Halabsence of individuals absence of individual absence of in	plorthods icators.) (Type: C % 100 100 not prese S8 - Polyx S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Curface Surface Surface	Mottles %	Type	Location Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	bgroup): ption (Describe to Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR 10YR ere if indica	Aquic Halabsence of individuals absence of individual absence of	plorthods icators.) (Type: C % 100 100 not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Curface Surface Surface	Covered/Coated Sand Gra Mottles % Indicator	Type	Location Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	bgroup): ption (Describe to Bottom Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR 10YR ere if indica	Aquic Halabsence of individuals absence of individual absence of	plorthods icators.) (Type: C % 100 100 not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Curface Surface Surface	Covered/Coated Sand Gra Mottles %	Type	Location Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B) (L45, 149B)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	bgroup): ption (Describe to Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the inc Horizon	Color (I 10YR 10YR ere if indica	Aquic Halabsence of individuals absence of individual absence of	plorthods icators.) (Type: C % 100 100 not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Curface Surface Surface	Covered/Coated Sand Gra Mottles %	Type	Location Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B) (L45, 149B)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	bgroup): ption (Describe to Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the int Horizon	Color (I 10YR 10YR ere if indica	Aquic Halabsence of individuals absence of individual absence of	plorthods icators.) (Type: C % 100 100 not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Curface Surface Surface	Mottles %	Type	Location Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12	bgroup): ption (Describe to Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I 10YR 10YR ere if indica	absence of indi Matrix Moist) 2/1 3/2 tors are	plorthods icators.) (Type: C % 100 100 not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Curface Surface Surface	Mottles %	Type	Location Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	bgroup): ption (Describe to Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I 10YR 10YR ere if indica	Aquic Halabsence of individuals absence of individual absence of	plorthods icators.) (Type: C % 100 100 not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Curface Surface Surface	Mottles %	Type	Location Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 12 NRCS Hydric	bgroup): ption (Describe to Depth 12 20	Telos-Chesuncook associa Loamy, isotic, frigid the depth needed to document the ind Horizon	Color (I 10YR 10YR ere if indica	absence of indi Matrix Moist) 2/1 3/2 tors are	plorthods icators.) (Type: C % 100 100 not prese S8 - Polyo S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix Curface Surface Surface	Mottles %	Type	Location Locati	(e.g. clay, sand, loam) fine sandy loam fine sandy loam

Sample Point Wetland

TETRA TECH

Western Maine Renewable Energy Project

Project/Site:

WETLAND DETERMINATION DATA FORM

Wetland ID:

W20EI

Northeast and Northcentral Region

VEGETATION (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 10 meter radius) **Dominance Test Worksheet** Species Name % Cover Dominant Ind.Status 1. Fraxinus nigra 20 Υ **FACW** Y 2. 30 FAC Acer rubrum Number of Dominant Species that are OBL, FACW, or FAC: 9 (A) 30 Υ **FACU** 3. Betula papyrifera 4. Tsuga canadensis 5 Ν **FACU** Total Number of Dominant Species Across All Strata: 10 (B) 5. 10 Ν **FACU** Picea rubens Percent of Dominant Species That Are OBL, FACW, or FAC: 90.0% (A/B) 6. 7. 8. **Prevalence Index Worksheet** 9. Total % Cover of: Multiply by: -x 1 = OBL spp. 10. FACW spp. ____ Total Cover = 95 x 2 =172 FAC spp. ___ x 3 =165 Sapling/Shrub Stratum (Plot size: 5 meter radius) FACU spp. x 4 =216 UPL spp. FAC Acer rubrum 10 x = 51. 0 2. Υ **FACW** Thuja occidentalis 10 3. Ν **FACU** Populus grandidentata Total 205 563 4. 5. Prevalence Index = B/A = 2.746 6. 7. 8. **Hydrophytic Vegetation Indicators:** --------9. Yes □ No Rapid Test for Hydrophytic Vegetation 10. Dominance Test is > 50% Yes □ No Total Cover = 21 Yes □ No Prevalence Index is ≤ 3.0 * Yes □ No Morphological Adaptations (Explain) * Herb Stratum (Plot size: 2 meter radius) Problem Hydrophytic Vegetation (Explain) * Yes □ No 10 FAC Acer rubrum 1. * Indicators of hydric soil and wetland hydrology must be 2. 20 Υ **FACW** Onoclea sensibilis present, unless disturbed or problematic. 2 3. Ν **FACU** Solidago canadensis 15 Y **FACW Definitions of Vegetation Strata:** 4. Rubus hispidus Y 5. Carex stricta 10 OBL 5 6 Ν FAC Cornus canadensis Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. **FACW** 7. Symphyotrichum novae-angliae 1 Ν Medeola virginiana **FACU** 8. Ν 1 Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. 9. Maianthemum canadense 5 Ν **FACU** tall. Υ 10. 20 **FACW** Ribes lacustre 11. Herb - All herbaceous (non-woody) plants, regardless of size, and 12. woody plants less than 3.28 ft. tall. 13. 14. Woody Vines - All woody vines greater than 3.28 ft. in height. 15. Total Cover = 89 Woody Vine Stratum (Plot size: 10 meter radius) 1. 2. 3. **Hydrophytic Vegetation Present** ✓ Yes □ No 4. 5. --Total Cover = 0 Remarks: **Additional Remarks:**



	Western Mair	ne Renewable Energy l	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC								County:	Somerset
Investigator #1:	-				igator #2:					State:	ME
Soil Unit:		Elliottsville-Telos associa	tion, 3 to 15%				/I/WWI Classification:	Upland		Wetland ID:	W47EI
Landform:	Terrace	l otitudo.	45 440007		cal Relief:		400	Datum	NAD 02	Sample Point:	Upland
Slope (%):	See topo map	ditions on the site ty	45.140627		ongitude:				NAD 83 No	1	
·		or Hydrology □ sig	•			no, explain	Are normal circumst			1	
_		or Hydrology □ sig	_				☐ Yes	⊠ No	· ·		
SUMMARY OF		or riyarology in had	draily prob	iorriado.			, , , ,				
Hydrophytic Veg		sent?		☐ Yes	s ☑ No			Hydric Soils	Present?		☐ Yes ☑ No
Wetland Hydrol	_			☐ Yes						Within A Wetlar	
Remarks:	Statewide o										
HADBOI OCA											
HYDROLOGY Wetland Hydro	ology Indio	otors (Chaok hara i	findicators	oro not	procent	—					
Primary:		ators (Check here i	indicators	are not	present	(J			Secondary:		
<u>- 11111ary.</u>	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves			B6 - Surface Soil	Cracks
	A2 - High Wa				B13 - Aqu					B10 - Drainage P	
	A3 - Saturation B1 - Water M				B15 - Mai C1 - Hydr	•			_	B16 - Moss Trim C2 - Dry-Season	
	B2 - Sedimer				-	_	spheres on Living Roots			C8 - Crayfish Bur	
	B3 - Drift Dep			_			educed Iron				isible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep			_	C6 - Rece C7 - Thin		eduction in Tilled Soils			D1 - Stunted or S D2 - Geomorphic	
		on Visible on Aerial Ima	agery		Other (Ex					D3 - Shallow Aqu	
	B8 - Sparsely	y Vegetated Concave S	Surface							D4 - Microtopogra D5 - FAC-Neutral	
Field Observet	·lana:									D3 - FAC-Neutral	
Field Observat Surface Water I			Donth		(in)						
Water Table Pro		□ Yes ☑ No □ Yes ☑ No	Depth: Depth:		(in.) (in.)			Wetland Hy	drology Pı	resent?	Yes ☑ No
Saturation Pres		☐ Yes ☑ No	Depth:		(in.)						
		eam gauge, monitori	<u> </u>			e inepoeti	ons) if available:		N/A		
Remarks:	Statewide o		Tig Well, aci	iai priotos	s, previous	s mapecu	ons), ii avallable.		14/74		
Nomano.	Otatowide	arought									
SOILS											
Map Unit Name);	Chesuncook-Elliottsville-	Telos associa	ation, 3 to	15%	S	eries Drainage Class:	moderately v	well drained	d	
Taxonomy (Sub	group):	Coarse-loamy, isot	ic, frigid Ac	luic Hap	lorthods			•			
Profile Descrip	otion (Describe to	the depth needed to document the inc	dicator or confirm the	e absence of ind	icators.) (Type: C	=Concentration,	D=Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra	ins; Location: PL=Po	ore Lining, M=Matrix)	
Тор	Bottom			Matrix	_			Mottles			Texture
Depth	Depth				0.1					Location	-
0		Horizon	Color (, , , , , , , , , , , , , , , , , , , 	%		Color (Moist)	%	Туре	Location	(e.g. clay, sand, loam)
	12	Horizon 	Color (I	Moist) 5/3	100		Color (Moist)	%	Type 	Location	-
			,	, , , , , , , , , , , , , , , , , , , 	_		l ,				(e.g. clay, sand, loam)
		 	10YR 	5/3	100		 			 	(e.g. clay, sand, loam) fine sandy loam
		 	10YR 	5/3 	100 		 	 		 	(e.g. clay, sand, loam) fine sandy loam
 	 	 	10YR 	5/3 	100 	 	 	 	 	 	(e.g. clay, sand, loam) fine sandy loam
 	 	 	10YR 	5/3 	100 	 	 	 	 	 	(e.g. clay, sand, loam) fine sandy loam
 	 	 	10YR 	5/3 	100 	 	 	 	 	 	(e.g. clay, sand, loam) fine sandy loam
 	 		10YR	5/3 	100 	 	 	 	 	 	(e.g. clay, sand, loam) fine sandy loam
 NRCS Hydric	 		10YR	5/3 tors are	100 not prese	 ent	 	 Indicator	 rs for Proble	 	(e.g. clay, sand, loam) fine sandy loam
 NRCS Hydric	 Soil Field Ir A1- Histosol A2 - Histic Ep	 ndicators (check he	10YR	5/3 tors are	100 not prese S8 - Polyo S9 - Thin	 ent	w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B)	 Indicator	 S for Proble A10 - 2 cm A16 - Coast		(e.g. clay, sand, loam) fine sandy loam
NRCS Hydric	 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi		10YR	5/3 tors are	100 not prese S8 - Poly S9 - Thin F1 - Loan	 ent	w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)		 S for Proble A10 - 2 cm A16 - Coast S3 - 5cm M		(e.g. clay, sand, loam) fine sandy loam
NRCS Hydric	 Soil Field Ir A1- Histosol A2 - Histic Ep		10YR	5/3 tors are	100 not prese S8 - Poly S9 - Thin F1 - Loan	 ent	w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix		 S for Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S		(e.g. clay, sand, loam) fine sandy loam (LRR K, L, R)
NRCS Hydric	Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete		10YR ere if indica	5/3 tors are	100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	 value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su	w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface		 S for Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyva S9 - Thin Da		(e.g. clay, sand, loam) fine sandy loam (LRR K, L, R) (LRR K, L)
NRCS Hydric	Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D		10YR ere if indica	5/3 tors are	100	 ent 夕: value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Sueted Dark	w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface		 		(e.g. clay, sand, loam) fine sandy loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R)
NRCS Hydric	Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M		10YR ere if indica	5/3 tors are	100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Red F7 - Depl	 ent 夕: value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Sueted Dark	w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface		 Sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyva S9 - Thin Da F12 - Iron-N F19 - Piedm	ematic Soils 1 Muck (LRR K, L, MLRA the Prairie Redox (LRR ucky Peat of Peat the Below Surface ark Surface (LRR K, L, M) Manganese Masses the Control of Plant Surface (LRR K, L) Manganese Masses the Control of Plant Surface (LRR K, L)	(e.g. clay, sand, loam) fine sandy loam
NRCS Hydric			10YR ere if indica	5/3 tors are	100	 ent 夕: value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Sueted Dark	w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface		 		(e.g. clay, sand, loam) fine sandy loam
NRCS Hydric	Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy R S6 - Stripped		10YR ere if indica	5/3 tors are	100	 ent 夕: value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Sueted Dark	w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface		 		(e.g. clay, sand, loam) fine sandy loam
NRCS Hydric	Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy R S6 - Stripped		10YR ere if indica	5/3 tors are	100	 ent 夕: value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Sueted Dark	w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface		 		(e.g. clay, sand, loam) fine sandy loam
NRCS Hydric	Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy R S6 - Stripped		10YR ere if indica	5/3 tors are	100	 ent 夕: value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Sueted Dark	w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface	Indicator Indicator			(e.g. clay, sand, loam) fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) (S (LRR K, L, R) (S (LRR K, L, R) (S (MLRA 149B) 145, 149B) face must be present, unless
NRCS Hydric	Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy R S6 - Stripped		10YR ere if indica	5/3 tors are	100	 ent 夕: value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Sueted Dark	w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface	Indicator			(e.g. clay, sand, loam) fine sandy loam

TETRA TECH

WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W47EI Sample Point Upland

VEGETATION	(Species identified in all uppercase are non-native	species	5.)		
Tree Stratum (Plo	ot size: 10 meter radius)			1	
	<u>Species Name</u>		<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Betula lenta	75	Υ	FACU	
2.	Acer rubrum	20	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.	Fraxinus nigra	5	N	FACW	
4.					Total Number of Dominant Species Across All Strata: 4 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)
7.					(74B)
					Provolence Index Werksheet
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 0
	Total Cover =	100			FACW spp. 5 x 2 = 10
					FAC spp. 35 x 3 = 105
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)				FACU spp130
1.	Acer pensylvanicum	5	N	FACU	UPL spp. $0 x 5 = 0$
2.	Betula lenta	20	Υ	FACU	
3.	Acer rubrum	10	N	FAC	Total 170 (A) 635 (B)
4.					
5.					Prevalence Index = B/A = 3.735
6.				<u></u>	- I Totalonoo indox Dirit
7.					
					Urdranbutia Vagatatian Indiaatara
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☐ Yes ☑ No Dominance Test is > 50%
	Total Cover =	35			Yes ☑ No Prevalence Index is ≤ 3.0 *
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Medeola virginiana	5	Ν	FACU	
2.	Polystichum acrostichoides	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Phegopteris hexagonoptera	5	N	FACU	present, unless disturbed or problematic.
4.	Athyrium angustum	5	N	FAC	Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
					
8.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
9.					tall.
10.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.					woody planto less than 5.20 ft. tail.
14.					
15.					Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	35			
	. 5.6				
Woody Vine Strati	um (Plot size: 10 meter radius)				
1					
2.					
					Undrankutia Variation Present
3.					Hydrophytic Vegetation Present — Yes — No
4.					
5.					
	Total Cover =	0			
Remarks:					
Additional Rer	marks:				
Additional Net	na no.				



Applicant: Western Maine Renewables, LLC Investigator #2:	I Draigat/Sita:	\/\/	na Danawahla Enamed	Dueleet				Drainat #:	104 7120		Deter	00/00/00
Investigator #1 Emmy Invited Investigator PTZ	Project/Site:		9,	Project				Project #.	194-7 130		Date:	09/09/20
Sold Unit: Charactocolibrate/Pale secucions, 3 to 15% Local Relief: Linear Solope (%) See per sear.			ne Renewables, LLC								,	
Landform		: Emmy Irvin			Investi	gator #2:					State:	ME
Slope (%) See towners Latitude: 46.140074 Longitude: -06.80725 Option: NAD 83 Are inimatorly-principle conditions on the list behalf of first barrier of year? (in. explain = 1.00000000000000000000000000000000000	Soil Unit:	Chesuncook-E	Elliottsville-Telos associa	tion, 3 to 15%			NW	/I/WWI Classification:	: PFO		Wetland ID:	W47EI
Are comparison-bydrologic conditions on the sile to pictual for this time of year? (**.c. epite to inswer) Yes No	Landform:	Terrace			Loc	al Relief:	Linear				Sample Point:	Wetland
Accordination by the place of the time of year? (in., suptain temporary) Page No	Slope (%):	See topo map	Latitude:	45.140674	L	ongitude:	-69.8697	28	Datum	: NAD 83		
Are vegetation Soil or Hydrology adjuntantly problematic? Yes No No Hydrology Present? 2 Yes No Hydrology Present? 2	- ' ' '	drologic cond	ditions on the site tv	pical for thi					□ Yes ☑	No	1	
Act Vogetation Soil Soil Oriented Proposed Part Soil No. Soil Proposed Part Part No.	-			•		-	, ,	·			1	
SUMMARY OF FINDINGS	•			•					•			
Hydric Soils Present? C			or riyurology 🗆 nat	urally prob	iemalie:			— 103				
Wetland Hydrology Indicators (Check here if indicators are not present												
Wetland Hydrology Indicators (Check here if indicators are not present		•										
Worklocky Wetland Hydrology Indicators (Check here if indicators are not present	Wetland Hydro	ology Present	?		Yes	□ No			Is This Sam	pling Point \	Within A Wetla	nd? ☑ Yes □ No
Al - Surface Water Table B0 - Water-Sale Forum	Remarks:	Statewide of	drought									
Al - Surface Water Table B0 - Water-Sale Forum												
Material Present	HYDROLOGY											
A1 - Surface Water Table B8 - Water Stained Leaves B6 - Surface Soil Cracks B6 - Surface Soil Crack B6 - Surface Soil Cracks B6 - Surface Soil Crack B6 -												
A1 - Surface Water	_		ators (Check here i	f indicators	are not	present				_		
A2 - High Water Table												
A3 - Salaration	l				_					_		
B 1 - Water Marks		_										
B2 - Sediment Deposits	l H						•					
B3 - Drift Deposits	l H					-	_				•	
B4 - Agal Mail or Crust	l		•								•	
B5 - Inch Deposits	l H											0.0
B7 - Inundation Visible on Aerial Imagery Other (Explain in Remarks) D3 - Shallow Aquitant D4 - Inundation Visible on Aerial Imagery D5 - FAC-Neutral Test	l – –	•			_							
B8 - Sparsely Vegetated Concave Surface		•		agery								
Field Observations:						•	•	,			-	
Surface Water Present?											D5 - FAC-Neutra	l Test
Surface Water Present?	Field Observa	ations:										
Water Table Present?				D 41		(in)						
Water abole Present? Yes No Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: Statewide drought SOILS Map Unit Name: Chesuncook-Eliotsville-Telos association, 3 to 15% Series Drainage Class: moderately well drained Taxonomy (Subgroup): Coarse-loamy, isotic, frigid Aquic Hapforthods Profile Description Markix Mottles				•		1 1			Wetland Hy	drology Pr	esent? ⊡	l Yes □ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Note: N/A Note: N/A				•		1 1			_			
Remarks: Statewide drought SOILS	Saturation Pre	sent?	⊔ Yes ☑ No	Depth:		(in.)						
Remarks: Statewide drought SOILS	Describe Recor	ded Data (str	eam gauge, monitori	ng well, aeri	ial photos	s, previous	s inspecti	ons), if available:		N/A		
Map Unit Name Chesuncook-Elliotsville-Telos association 3 to 15% Series Drainage Class: moderately well drained		•		•								
Map Unit Name:	I Remarks.	Statewide (drought				· · · · · · · · · · · · · · · · · · ·					
Map Unit Name:	Remarks:	Statewide of	drought				<u> </u>					
Textonomy (Subgroup):		Statewide o	drought				·					
Profile Description (Description Color (Moist) Color (Moist) Color (Moist) Mottles Texture	SOILS		drought					·				
Top Depth Depth Horizon Color (Moist) Popth Horizon Color (Moist) Popth Horizon Color (Moist) Popth Popth Horizon Color (Moist) Popth Popth Popth Horizon Color (Moist) Popth Pop	SOILS			-Telos associa	ation, 3 to 1	15%		·	: moderately	well drained		
Top Depth Depth Horizon Color (Moist) Popth Horizon Color (Moist) Popth Horizon Color (Moist) Popth Popth Horizon Color (Moist) Popth Popth Popth Horizon Color (Moist) Popth Pop	SOILS Map Unit Nam	e:	Chesuncook-Elliottsville-					·	: moderately	well drained		
Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location (e.g. clay, Sand, Ioam)	SOILS Map Unit Nam Taxonomy (Su	e: bgroup):	Chesuncook-Elliottsville-Coarse-loamy, isoti	ic, frigid Aq	uic Hapl	orthods	S	eries Drainage Class	•			
0 14 10YR 4/1 80 10YR 2/1 10 fine sandy loam 10YR 5/6 10 C M fine sandy loam 10 10 10 10 C M fine sandy loam 10 10 10 10 C M fine sandy loam 10 10 10 10 C M fine sandy loam 10 10 10 10 C M fine sandy loam 10 10 10 10 C M fine sandy loam 10 10 10 10 C M fine sandy loam 10 10 10 10 C M fine sandy loam 10 10 10 10 C M fine sandy loam 10 10 10 10 C M fine sandy loam 10 C M fine sandy loam	SOILS Map Unit Nam Taxonomy (Su Profile Descri	e: bgroup): ption (Describe to	Chesuncook-Elliottsville-Coarse-loamy, isoti	ic, frigid Aq	uic Hapl	orthods	S	eries Drainage Class	Covered/Coated Sand Gra			Texture
NRCS Hydric Soil Field Indicators (check here if indicators are not present Dr.	SOILS Map Unit Nam Taxonomy (Su Profile Descri	e: bgroup): ption (Describe to Bottom	Chesuncook-Elliottsville-Coarse-loamy, isoti	ic, frigid Aq	uic Hapl absence of indi Matrix	orthods cators.) (Type: C	S	Description, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	ains; Location: PL=Pc	ore Lining, M=Matrix)	- .
NRCS Hydric Soil Field Indicators (check here if indicators are not present	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth	e: bgroup): ption (Describe to Bottom Depth	Chesuncook-Elliottsville-Coarse-loamy, isoti	ic, frigid Aq dicator or confirm the Color (I	uic Hapl absence of indi Matrix Moist)	orthods cators.) (Type: C	S=Concentration,	Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra Mottles	ains; Location: PL=Pc	ore Lining, M=Matrix)	(e.g. clay, sand, loam)
NRCS Hydric Soil Field Indicators (check here if indicators are not present	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth	e: bgroup): ption (Describe to Bottom Depth	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc	ic, frigid Aq dicator or confirm the Color (I	uic Hapl absence of indi Matrix Moist)	orthods cators.) (Type: C	S=Concentration,	D=Depletion, RM=Reduced Matrix, CS=6 Color (Moist) 2/1	Covered/Coated Sand Gra Mottles % 10	Type	bre Lining, M=Matrix) Location	(e.g. clay, sand, loam) fine sandy loam
NRCS Hydric Soil Field Indicators (check here if indicators are not present	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	ic, frigid Aq dicator or confirm the Color (I 10YR	uic Hapl absence of indi Matrix Moist) 4/1	orthods cators.) (Type: 0	S=Concentration,	D=Depletion, RM=Reduced Matrix, CS=6 Color (Moist) 2/1	Covered/Coated Sand Gra Mottles % 10	Type	bre Lining, M=Matrix) Location	(e.g. clay, sand, loam) fine sandy loam
NRCS Hydric Soil Field Indicators (check here if indicators are not present	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	ic, frigid Aq dicator or confirm the Color (I 10YR	uic Hapl absence of indi Matrix Moist) 4/1	orthods cators.) (Type: C	S=Concentration, 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6	Covered/Coated Sand Gra Mottles % 10 10	Type C	Location M	(e.g. clay, sand, loam) fine sandy loam
NRCS Hydric Soil Field Indicators (check here if indicators are not present	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I	uic Hapl absence of indi Matrix Moist) 4/1	orthods cators.) (Type: C	S=Concentration, 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6	Covered/Coated Sand Gra Mottles % 10 10	Type C	Location M	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
NRCS Hydric Soil Field Indicators (check here if indicators are not present	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR	uic Hapl absence of indi Matrix Moist) 4/1	orthods cators.) (Type: C	Se=Concentration, 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=t Color (Moist) 2/1 5/6	Covered/Coated Sand Gra Mottles % 10 10	Type C	Location M	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
NRCS Hydric Soil Field Indicators (check here if indicators are not present	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR	uic Hapl absence of indi Matrix Voist) 4/1	orthods cators.) (Type: C	S=Concentration, 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6	Mottles % 10 10	Type C	Location M	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
NRCS Hydric Soil Field Indicators (check here if indicators are not present	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR	uic Hapl absence of indi Matrix Voist) 4/1	orthods cators.) (Type: C	S=Concentration, 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6	Mottles % 10 10	Type C	Location M	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
A1- Histosol S8 - Polyvalue Below Surface (LRR R, MLRA 149B) A10 - 2 cm Muck (LRR K, L, MLRA 149B) A2 - Histic Epipedon S9 - Thin Dark Surface (LRR R, MLRA 149B) A16 - Coast Prairie Redox (LRR K, L, R) A3 - Black Histic F1 - Loamy Mucky Mineral (LRR K, L) S3 - 5 cm Mucky Peat of Peat (LRR K, L, M) S7 - Dark Surface (LRR K, L, M) S7 - Dark Surface (LRR K, L, M) S8 - Polyvalue Below Surface (LRR K, L) S8 - Polyvalue Below Surface (LRR K, L) S7 - Dark Surface (LRR K, L, M) S8 - Polyvalue Below Surface (LRR K, L) S9 - Thin Dark Surface (LRR K, L)	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR	uic Hapl absence of indi Matrix Voist) 4/1	% 80	S=Concentration, 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6	Mottles % 10 10	Type C	Location M	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
A1- Histosol S8 - Polyvalue Below Surface (LRR R, MLRA 149B) A10 - 2 cm Muck (LRR K, L, MLRA 149B) A2 - Histic Epipedon S9 - Thin Dark Surface (LRR R, MLRA 149B) A16 - Coast Prairie Redox (LRR K, L, R) A3 - Black Histic F1 - Loamy Mucky Mineral (LRR K, L) S3 - 5 cm Mucky Peat of Peat (LRR K, L, M) S7 - Dark Surface (LRR K, L, M) S7 - Dark Surface (LRR K, L, M) S8 - Polyvalue Below Surface (LRR K, L) S8 - Polyvalue Below Surface (LRR K, L) S7 - Dark Surface (LRR K, L, M) S8 - Polyvalue Below Surface (LRR K, L) S9 - Thin Dark Surface (LRR K, L)	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR	uic Hapl absence of indi Matrix Moist) 4/1	orthods cators.) (Type: C	SECONCENTRATION, 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6	Covered/Coated Sand Gra Mottles % 10 10	Type C	Location M	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
A2 - Histic Epipedon S9 - Thin Dark Surface (LRR R, MLRA 1498) A16 - Coast Prairie Redox (LRR K, L, R) S3 - 5cm Mucky Peat of Peat (LRR K, L, R) S3 - 5cm Mucky Peat of Peat (LRR K, L, R) S3 - 5cm Mucky Peat of Peat (LRR K, L, R) S3 - 5cm Mucky Peat of Peat (LRR K, L, R) S3 - 5cm Mucky Peat of Peat (LRR K, L, R) S3 - 5cm Mucky Peat of Peat (LRR K, L, R) S4 - Stratified Layers F2 - Loamy Gleyed Matrix S7 - Dark Surface (LRR K, L, R) S8 - Polyvalue Below Surface (LRR K, L) S8 - Polyvalue Below Surface (LRR K, L) S8 - Polyvalue Below Surface (LRR K, L) S9 - Thin Dark Surface (LRR K, L, R) S9 - Thin Dark Surface (LRR K, L, R) S9 - Thin Dark Surface (LRR K, L, R) S9 - Thin Dark Surface (LRR K, L, R) S9 - Thin Dark Surface (LRR K, L, R) S9 - Thin Dark Surface (LRR K, L, R) S9 - Thin Dark Surface (LRR K, L, R) S9 - Thin Dark Surface (LRR K, L, R) S9 - Thin Dark Surface (LRR K, L, R) S9 - Thin Dark Surface (LRR K, L, R) S9 - Thin Dark Surface (LRR K, L) S9 - Thin Dark Surface (LRR K, L, R) S9 - Thin Dark Surface (LRR K, L) S9 - Thin Dark Surface (LRR K, L) S9 - Thin Dark Surface	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR	uic Hapl absence of indi Matrix Voist) 4/1	orthods cators.) (Type: C	S=Concentration, 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6	Covered/Coated Sand Gra Mottles % 10 10	Type C	Location M	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
A3 - Black Histic	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 14 Soil Field In	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR	uic Hapl absence of indi Matrix Voist) 4/1 tors are	orthods cators.) (Type: C	Seconcentration, 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6	Covered/Coated Sand Gra Mottles % 10 10 Indicato	Type C rs for Proble	Location M matic Soils ¹	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
A5 - Stratified Layers F3 - Depleted Matrix S8 - Polyvalue Below Surface (LRR K, L) A11 - Depleted Below Dark Surface F6 - Redox Dark Surface S9 - Thin Dark Surface (LRR K, L) A12 - Thick Dark Surface F7 - Depleted Dark Surface F12 - Iron-Manganese Masses (LRR K, L, R) S1 - Sandy Muck Mineral F8 - Redox Depressions F19 - Piedmont Floodplain Soils (MLRA 149B) S4 - Sandy Gleyed Matrix TA6 - Mesic Spodic (MLRA 144A, 145, 149B) S5 - Sandy Redox TF2 - Red Parent Material S6 - Stripped Matrix TF12 - Very Shallow Dark Surface S7 - Dark Surface (LRR R, MLRA 149B) Treatment of hydrohytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If Observed) Type: LEDGE Depth: 14 Hydric Soil Present?	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 14 Soil Field In A1- Histosol	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR	uic Hapl absence of indi Matrix Voist) 4/1 tors are	orthods cators.) (Type: Co	S=Concentration, 10YR 10YR ent	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B)	Covered/Coated Sand Gra Mottles % 10 10 Indicato	Type C sfor Proble A10 - 2 cm	Location M matic Soils ¹ Muck (LRR K, L, MLRA	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
A11 - Depleted Below Dark Surface F6 - Redox Dark Surface S9 - Thin Dark Surface (LRR K, L) F7 - Depleted Dark Surface F12 - Iron-Manganese Masses (LRR K, L, R) F13 - Piedmont Floodplain Soils (MLRA 149B) F8 - Redox Depressions F19 - Piedmont Floodplain Soils (MLRA 149B) F8 - Redox Depressions F19 - Piedmont Floodplain Soils (MLRA 149B) TA6 - Mesic Spodic (MLRA 144A, 145, 149B) TA6 - Mesic Spodic (MLRA 144A, 145, 149B) TF2 - Red Parent Material TF12 - Very Shallow Dark Surface Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If Observed) Type: LEDGE Depth: 14 Hydric Soil Present?	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 14 Soil Field In A1- Histosol A2 - Histic E	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR	uic Hapl absence of indi Matrix Voist) 4/1 tors are	orthods cators.) (Type: Control of Control o	Seconcentration, 10YR 10YR	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B)	Covered/Coated Sand Gra Mottles % 10 10 Indicato	Type C s for Proble A10 - 2 cm A16 - Coast	Location Location M matic Soils Muck (LRR K, L, MLRA	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
A12 - Thick Dark Surface	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR	uic Hapl absence of indi Matrix Voist) 4/1 tors are	orthods cators.) (Type: Control % 80 not presence S8 - Polymont S9 - Thin F1 - Loan	=Concentration, 10YR 10YR value Belo Dark Surf	Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Covered/Coated Sand Gra Mottles % 10 10 Indicato	Type C s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Mi	Location Location M matic Soils ¹ Muck (LRR K, L, MLRA Prairie Redox (LR	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
S1 - Sandy Muck Mineral	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 14 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon ndicators (check he	Color (I 10YR	uic Hapl absence of indi Matrix Voist) 4/1 tors are	orthods cators.) (Type: Control % 80 not presence S8 - Polyman S9 - Thin F1 - Loan F2 - Loan	10YR 10YR 10YR value Belo Dark Surf ny Mucky	Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gra Mottles % 10 10 Indicato	Type C s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Mi S7 - Dark S	Location Location M matic Soils Prairie Redox (LRR K, L, MLRA Ucky Peat of Peat urface (LRR K, L, M)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R)
S4 - Sandy Gleyed Matrix S5 - Sandy Redox S6 - Stripped Matrix S7 - Dark Surface (LRR R, MLRA 149B) Restrictive Layer (If Observed) T46 - Mesic Spodic (MLRA 144A, 145, 149B) TF12 - Red Parent Material TF12 - Very Shallow Dark Surface TF12 - Very Shallow Dark S	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 14 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified	Chesuncook-Elliottsville- Coarse-loamy, isoti the depth needed to document the inc Horizon ndicators (check he pipedon istic en Sulfide d Layers	Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 4/1 tors are	orthods cators.) (Type: Control of the control of t	10YR 10YR 10YR value Belo Dark Surf ny Mucky	Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X	Covered/Coated Sand Gra Mottles % 10 10 Indicato	Type C s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Mi S7 - Dark S S8 - Polyval	Location Location M matic Soils Muck (LRR K, L, MLRA Prairie Redox (LR	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R)
S5 - Sandy Redox S6 - Stripped Matrix TF12 - Very Shallow Dark Surface TF12 - Very Shallow Dark Sur	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Depth 14 Soil Field Ir A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 4/1 tors are	orthods cators.) (Type: Comparison of the compar	10YR 10YR 10YR value Belo Dark Surf ny Mucky Iny Gleyed eted Matri ox Dark Su	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface	Covered/Coated Sand Gra Mottles % 10 10 Indicato	Type C s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Mi S7 - Dark S S8 - Polyval S9 - Thin Da	Location Location M matic Soils Muck (LRR K, L, MLRA Prairie Redox (LRR K, L, M) ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, K, L)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam (LRR K, L, R) (LRR K, L, R)
S6 - Stripped Matrix S7 - Dark Surface (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. S7 - Dark Surface (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If Observed) Type: LEDGE Depth: 14 Hydric Soil Present?	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 14 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick I	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 4/1 tors are	orthods cators.) (Type: Comparison of the compar	10YR 10YR 10YR 10YR value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra Mottles % 10 10 Indicato	Type C sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm Mi S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M	Location Location M matic Soils Muck (LRR K, L, MLRA Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, Manganese Masse	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
S7 - Dark Surface (LRR R, MLRA 149B) Cher (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Control of the (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Control of the (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Control of the (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Control of the (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Control of the control	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 14 Soil Field In A1- Histosol A2 - Histic E A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick E S1 - Sandy N S4 - Sandy O	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 4/1 tors are	orthods cators.) (Type: Comparison of the compar	10YR 10YR 10YR 10YR value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra Mottles % 10 10 Indicato	Type C	Location Location M matic Soils Muck (LRR K, L, MLRA Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, langanese Masse nont Floodplain So	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Restrictive Layer (If Observed) Type: LEDGE Depth: 14 Hydric Soil Present? Type: LEDGE Type: LEDGE Type: LEDGE Type: LEDGE Type: LEDGE Depth: 14	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville- Coarse-loamy, isoti the depth needed to document the inc Horizon	Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 4/1 tors are	orthods cators.) (Type: Comparison of the compar	10YR 10YR 10YR 10YR value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra Mottles % 10 10 Indicato	Type C	Location Location M matic Soils Muck (LRR K, L, MLRA Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, langanese Masse nont Floodplain So	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Restrictive Layer (If Observed) Type: LEDGE Depth: 14 Hydric Soil Present? Yes □ No	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the interpretation Horizon	Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 4/1 tors are	orthods cators.) (Type: Comparison of the compar	10YR 10YR 10YR 10YR value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles % 10 10 Indicato	Type C sfor Proble A10 - 2 cm A16 - Coast S3 - 5cm Mi S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-N F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very	Location Location M M matic Soils Muck (LRR K, L, MLRA Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, Anganese Masse nont Floodplain So Spodic (MLRA 144A, Parent Material Shallow Dark Sur	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
(If Observed) Type: LEDGE Depth: 14	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the interpretation Horizon	Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 4/1 tors are	orthods cators.) (Type: Comparison of the compar	10YR 10YR 10YR 10YR value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra Mottles % 10 10 Indicato	Type C	Location Location M M matic Soils Muck (LRR K, L, MLRA Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So Spodic (MLRA 144A, Parent Material Shallow Dark Suriain in Remarks)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
(ii Observed)	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 14	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the interpretation Horizon	Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 4/1 tors are	orthods cators.) (Type: Comparison of the compar	10YR 10YR 10YR 10YR value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles % 10 10 Indicato	Type C	Location Location M M matic Soils Muck (LRR K, L, MLRA Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So Spodic (MLRA 144A, Parent Material Shallow Dark Suriain in Remarks)	(e.g. clay, sand, loam) fine sandy loam fine sandy loam
Remarks:	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 14 Soil Field In A1- Histosol A2 - Histic El A3 - Black Histic El A4 - Hydroge A11 - Depleto A12 - Thick El A12 - Thick El A12 - Thick El S1 - Sandy North S4 - Sandy North S4 - Sandy North S4 - Sandy North S5 - Sandy North S6 - Stripped S7 - Dark Su	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the interpretation Horizon	Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 4/1	orthods cators.) (Type: Control of Control o	10YR 10YR 10YR 10YR value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles % 10 10	Type C	Location M matic Soils Muck (LRR K, L, MLRA Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So Spodic (MLRA 144A, Parent Material Shallow Dark Surian in Remarks) ation and wetland hydrology	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) sis (LRR K, L, R) pils (MLRA 149B) 145, 149B) rface y must be present, unless
	SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 14 Soil Field In A1- Histosol A2 - Histic El A3 - Black Histic El A4 - Hydroge A11 - Depleto A12 - Thick El A12 - Thick El A12 - Thick El S1 - Sandy North S4 - Sandy North S4 - Sandy North S4 - Sandy North S5 - Sandy North S6 - Stripped S7 - Dark Su	Chesuncook-Elliottsville-Coarse-loamy, isoti the depth needed to document the interpretation Horizon	Color (I 10YR ere if indica	uic Hapl absence of indi Matrix Voist) 4/1	orthods cators.) (Type: Control of Control o	10YR 10YR 10YR 10YR value Belo Dark Surf ny Mucky ny Gleyed eted Matri ox Dark Su eted Dark	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) 2/1 5/6 w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles % 10 10	Type C	Location M matic Soils Muck (LRR K, L, MLRA Prairie Redox (LR ucky Peat of Peat urface (LRR K, L, M) ue Below Surface ark Surface (LRR K, Manganese Masse nont Floodplain So Spodic (MLRA 144A, Parent Material Shallow Dark Surian in Remarks) ation and wetland hydrology	(e.g. clay, sand, loam) fine sandy loam fine sandy loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) sis (LRR K, L, R) pils (MLRA 149B) 145, 149B) rface y must be present, unless

TETRA TECH

WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W47EI Sample Point Wetland

VEGETATION	(Species identified in all uppercase are non-native	species	s.)		
Tree Stratum (Plo	ot size: 10 meter radius)				
	Species Name	% Cover	<u>Dominant</u>	<u>Ind.Status</u>	Dominance Test Worksheet
1.	Larix laricina	30	Y	FACW	
2.	Acer rubrum	50	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)
3.	Fraxinus nigra	20	N	FACW	
4.					Total Number of Dominant Species Across All Strata: 4 (B)
5.					(B)
6.					Percent of Deminant Species That Are ORL EACW, or EAC: 75.0% (A/R)
					Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
7.					December 2015 Medial and
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 50
	Total Cover =	100			FACW spp 70
					FAC spp. 65 $\times 3 = 195$
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)				FACU spp 0
1.	Picea mariana	5	N	FACW	UPL spp. $30 x 5 = 150$
2.	Acer rubrum	5	N	FAC	··· ————
3.	Fraxinus nigra	5	N	FACW	Total 215 (A) 535 (B)
4.					(2)
5.					Prevalence Index = B/A = 2.488
					Prevalence index – B/A – 2.400
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.					☑ Yes ☐ No Dominance Test is > 50%
	Total Cover =	15			yes □ No Prevalence Index is ≤ 3.0 *
					☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)				☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Onoclea sensibilis	10	N	FACW	
2.	Parathelypteris noveboracensis	10	N	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Calamagrostis canadensis	50	Y	OBL	present, unless disturbed or problematic.
			Y		Definitions of Vegetation Strate:
4.	Fragaria vesca	30	<u> </u>	UPL	Definitions of Vegetation Strata:
5.					T
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.					tall.
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size, and
13.					woody plants less than 3.28 ft. tall.
14.					
15.	_ 				Woody Vines - All woody vines greater than 3.28 ft. in height.
10.		100			vvoody vincs
	Total Cover =	100			
Woody Vine Stratu	um (Plot size: 10 meter radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present 🗹 Yes 🗆 No
4.					
5.					
	Total Cover =	0			
Remarks:					
Additional Day	marka.				
Additional Rer	narks:				



Project/Site:	Moscow Ren	ewable Energy Project					Project #:	194-7130		Date:	09/09/20
Applicant:	Patriot Renev	wables								County:	Somerset
Investigator #1:	: Nicc Johnson	1		Investi	gator #2:					State:	ME
Soil Unit:	Monarda-Telos	complex, 0 to 8 percent slop	oes, very stony				/I/WWI Classification:	: Upland		Wetland ID:	W106EI
Landform:	Terrace				al Relief:					Sample Point:	Upland
Slope (%):	See topo map		45.136905		ongitude:				NAD 83		
		ditions on the site ty				no, explain	·		No		
_		or Hydrology □ sig	•				Are normal circumst	•	t?		
		or Hydrology □ nat	urally prob	lematic?			□ Yes	☑ No			
SUMMARY OF		10							D 10		
Hydrophytic Ve	•			☐ Yes				Hydric Soils		A/:(I ' A \A/ (I	☐ Yes ☑ No
Wetland Hydro				□ Yes	☑ No			is This Samp	oling Point v	Within A Wetlar	nd? □ Yes ☑ No
Remarks:	Statewide of	arougnt									
HYDROLOGY											
1		ators (Check here i	f indicators	are not	present						
Primary	<u>:</u>	Motor			B9 - Wate	or Stainad	Loovoo		Secondary:	B6 - Surface Soil	Crooks
I H	A1 - Surface A2 - High Wa			님	B13 - Aqu				_	B10 - Drainage P	
	A3 - Saturation				B15 - Mai					B16 - Moss Trim	
	B1 - Water M				C1 - Hydr	-				C2 - Dry-Season	
	B2 - Sedimer B3 - Drift Dep	•					espheres on Living Roots educed Iron			C8 - Crayfish Bur	rows ⁄isible on Aerial Imagery
	B4 - Algal Ma			H			eduction in Tilled Soils			D1 - Stunted or S	0 ,
	B5 - Iron Dep	oosits		_	C7 - Thin					D2 - Geomorphic	
		on Visible on Aerial Ima	0 ,		Other (Ex	oplain in Re	emarks)			D3 - Shallow Aqu	
	Bo - Sparsely	/ Vegetated Concave S	ьигтасе							D4 - Microtopogra D5 - FAC-Neutral	
Field Observa	tions									20 1710 11041141	
Surface Water		□Vaa □ Na	Donth		(in)						
Water Table Pr		☐ Yes ☑ No ☐ Yes ☑ No	Depth:		(in.)			Wetland Hyd	drology Pr	resent?	l Yes ☑ No
Saturation Pres		☐ Yes ☑ No	Depth: Depth:		(in.) (in.)						
			<u> </u>			. ,,	\ 'C 'I I I		N1/A		
	· · · · · · · · · · · · · · · · · · ·	eam gauge, monitori	ng well, aen	ai priotos	s, previous	s inspecu	ons), ii avaliable:		N/A		
Remarks:	Statewide o	arougni									
		9									
SOIL S		J									
SOILS Man Unit Name							orios Prainago Class	: IE a modera	toly woll n	oorly otal	
Map Unit Name		Monarda-Telos complex, 0 to 8	percent slopes, v	ery stony		S	eries Drainage Class	: [E.g. modera	itely well, p	oorly, etc]	
Map Unit Name Taxonomy (Sub	ogroup):	Monarda-Telos complex, 0 to 8			ontone \ (Turner C			-			
Map Unit Name Taxonomy (Sub Profile Descrip	ogroup): otion (Describe to	Monarda-Telos complex, 0 to 8		absence of indi	cators.) (Type: C		eries Drainage Class: D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Grai			Texture
Map Unit Name Taxonomy (Sub Profile Descrip Top	ogroup): otion (Describe to Bottom	Monarda-Telos complex, 0 to 8 the depth needed to document the inc	dicator or confirm the	absence of indi	_		D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Grai	ins; Location: PL=Pc	ore Lining, M=Matrix)	Texture (e.g. clay, sand, loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	ogroup): otion (Describe to Bottom Depth	Monarda-Telos complex, 0 to 8	dicator or confirm the	absence of indi Matrix Moist)	%			Covered/Coated Sand Grai	Type		(e.g. clay, sand, loam
Map Unit Name Taxonomy (Sub Profile Descrip Top	ogroup): ption (Describe to Bottom Depth 12	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I	absence of indi Matrix Moist) 4/3	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grai	Type	Location	-
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	Bottom Depth 12	Monarda-Telos complex, 0 to 8 the depth needed to document the inc	Color (I	absence of indi Matrix Moist) 4/3	% 100 	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grai	Type	Location	(e.g. clay, sand, loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	Bottom Depth 12	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR	absence of indi Matrix Moist) 4/3	% 100	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grai	Type	Location	(e.g. clay, sand, loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	Bottom Depth 12	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR 	absence of indi Matrix Moist) 4/3	% 100 	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grai	Type	Location	(e.g. clay, sand, loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	Bottom Depth 12	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I	absence of indi Matrix Moist) 4/3	% 100 	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam FINE SANDY LOAM
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	ogroup): ption (Describe to Bottom Depth 12	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR	absence of indi Matrix Voist) 4/3	% 100 	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam FINE SANDY LOAM
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	ogroup): otion (Describe to Depth 12	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I	absence of indi Matrix Moist) 4/3	% 100 	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam FINE SANDY LOAM
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	bgroup): ption (Describe to Bottom Depth 12	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR	absence of indi Matrix Moist) 4/3	% 100 	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam FINE SANDY LOAM
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR	absence of indi Matrix Moist) 4/3 tors are	% 100 not prese	C=Concentration,	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grain Mottles %	Type s for Proble	Location	(e.g. clay, sand, loam FINE SANDY LOAM
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	bgroup): ption (Describe to Bottom Depth 12	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR	absence of indi Matrix Moist) 4/3 tors are	% 100 not prese		D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist)	Covered/Coated Sand Grain Mottles %	Type s for Proble A10 - 2 cm	Location	(e.g. clay, sand, loam FINE SANDY LOAM
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR	absence of indi Matrix Moist) 4/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan	ent	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L)	Covered/Coated Sand Grain Mottles %	Type s for Proble A16 - Coast S3 - 5cm Mi	Location Location matic Soils ¹ Muck (LRR K, L, MLRA CONTROLL) Prairie Redox (LRR LUCKY Peat of Peat	(e.g. clay, sand, loam FINE SANDY LOAM
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon ndicators (check here) pipedon stic en Sulfide	Color (I 10YR	absence of indi Matrix Moist) 4/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan	ent	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Grain Mottles %	Type s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Me S7 - Dark S	Location Locati	(e.g. clay, sand, loam FINE SANDY LOAM (LRR K, L, R)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon andicators (check here) pipedon stic en Sulfide d Layers	Color (I 10YR ere if indica	absence of indi Matrix Moist) 4/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple	ent	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Grain Mottles %	Type s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Mi S7 - Dark S S8 - Polyval	Location Locati	(e.g. clay, sand, loam FINE SANDY LOAM (LRR K, L, R) (LRR K, L)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ex A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon andicators (check here) pipedon stic en Sulfide d Layers ed Below Dark Surface	Color (I 10YR ere if indica	absence of indi Matrix Moist) 4/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple	ent	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface	Covered/Coated Sand Grain Mottles % Indicator	Type s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Mi S7 - Dark S S8 - Polyval S9 - Thin Da	Location Locati	(e.g. clay, sand, loam) FINE SANDY LOAM (LRR K, L, R) (LRR K, L, R)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR ere if indica	absence of indi Matrix Moist) 4/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo	ent	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Grain Mottles %	Type s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Mi S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm	Location Locati	(e.g. clay, sand, loam FINE SANDY LOAM
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR ere if indica	absence of indi Matrix Moist) 4/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	ent	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Grain Mottles % Indicator	Type s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Me S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-Me F19 - Piedm TA6 - Mesic	Location Locati	(e.g. clay, sand, loam FINE SANDY LOAM
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy R	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR ere if indica	absence of indi Matrix Moist) 4/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	ent	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Grain Mottles %	Type s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Mi S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F	Location Locati	(e.g. clay, sand, loam) FINE SANDY LOAM
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy R S5 - Stripped	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR ere if indica	absence of indi Matrix Moist) 4/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	ent	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Grain Mottles % Indicator	Type s for Proble A10 - 2 cm A16 - Coast S3 - 5cm Me S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very	Location Locati	(e.g. clay, sand, loam) FINE SANDY LOAM
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy R S5 - Stripped	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR ere if indica	absence of indi Matrix Moist) 4/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	ent	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Grain Mottles % Indicator Indicator Indicator Indicator	Type s for Proble A10 - 2 cm M A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	Location Locati	(e.g. clay, sand, loam) FINE SANDY LOAM
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 RRCS Hydric	Bottom Depth 12 Soil Field Ir A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy M S4 - Sandy R S6 - Stripped S7 - Dark Su	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR ere if indica	absence of indi Matrix Moist) 4/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	ent	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Mottles %	Type s for Proble A10 - 2 cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	Location Locati	(e.g. clay, sand, loam FINE SANDY LOAM
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 NRCS Hydric	Bottom Depth 12 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick E S1 - Sandy M S4 - Sandy M S4 - Sandy R S5 - Stripped	Monarda-Telos complex, 0 to 8 the depth needed to document the inc Horizon	Color (I 10YR ere if indica	absence of indi Matrix Moist) 4/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Deple F6 - Redo F7 - Deple	ent	D=Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Grain Mottles % Indicator Indicator Indicator Indicator	Type s for Proble A10 - 2 cm M S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm TA6 - Mesic TF2 - Red F TF12 - Very Other (Expla	Location Locati	(e.g. clay, sand, loam) FINE SANDY LOAM

TETRA TECH

WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Moscow Renewable Energy Project Wetland ID: W106El Sample Point Upland

VEGETATION	(Species identified in all uppercase a	are non-native	species.)			
Tree Stratum (Plo	ot size: 10 meter radius)					
	<u>Species Name</u>		% Cover [<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.						
2.						Number of Dominant Species that are OBL, FACW, or FAC:0 (A)
3.						
4.						Total Number of Dominant Species Across All Strata: 2 (B)
5.						
6.						Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7.						
8.						Prevalence Index Worksheet
9.						Total % Cover of: Multiply by:
10.						OBL spp 0
	Tota	al Cover =	0			FACW spp. 0 x 2 = 0
0 11 101 1 01						FAC spp. 0
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)					FACU spp 55
1.						UPL spp. $0 x 5 = 0$
2.						T-4-1 (A) (D)
3.						Total(A)(B)
4.						Dravelance Index - D/A - 4000
5.	_ 					Prevalence Index = B/A = 4.000
6.	_ 					
7.	_ 					Hydrophytic Vagatation Indicators
8.	_ 					Hydrophytic Vegetation Indicators:
9. 10.	_ 					☐ Yes ☐ No Rapid Test for Hydrophytic Vegetation
10.	Tot	al Cover =	0			☐ Yes ☐ No Dominance Test is > 50%
	TOU	ai Cover –	U			Yes □ No Prevalence Index is ≤ 3.0 * No □
Llauk Otratius /Dla	t sings (2 months and discs)					☐ Yes ☐ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius) Solidago canadensis		30	Υ	FACU	☐ Yes ☐ No Problem Hydrophytic Vegetation (Explain) *
2.	Rubus idaeus		15	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Anaphalis margaritacea		5	<u>'</u> N	FACU	present, unless disturbed or problematic.
3. 4.	Lupinus polyphyllus		5	N	FACU	Definitions of Vegetation Strata:
5.						Definitions of Vegetation Otrata.
6						Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.						height (DBH), regardless of height.
8.						
9.						Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.						tall.
11.						
12.						Herb - All herbaceous (non-woody) plants, regardless of size, and
13.						woody plants less than 3.28 ft. tall.
14.						
15.						Woody Vines - All woody vines greater than 3.28 ft. in height.
	Tota	al Cover =	55			
		.a. 00701				
Woody Vine Stratu	um (Plot size: 10 meter radius)					
1.						
2.						
3.						Hydrophytic Vegetation Present □ Yes ☑ No
4.						
5.						
	Tota	al Cover =	0			
Remarks:					'	
Additional Ren	narks:					



Project/Site:	Western Mai	ne Renewable Energy l	Project				Project #:	194-7130		Date:	09/09/20
Applicant:		ne Renewables, LLC							County:	Somerset	
Investigator #1										State:	ME
Soil Unit:		elos complex, 0 to 8	percent sl	•			/I/WWI Classification:	: PEM/PSS		Wetland ID:	W106EI
Landform:	Terrace Local Relief: Linear							D - t	NAD 00	Sample Point:	Wetland
Slope (%):	See topo map		45.156731		ongitude:				NAD 83 No	-	
		ditions on the site ty				no, explain	Are normal circumst			1	
_		or Hydrology □ sig or Hydrology □ nat	•				☐ Yes	.ances presen ☑ No	ι:		
SUMMARY OF		or rigarology in that	draily prob	icmatic:			_ 100				
Hydrophytic Ve		sent?		✓ Yes	s □ No			Hydric Soils	Present?		☐ Yes ☑ No
Wetland Hydro				☑ Yes						Within A Wetlaı	
Remarks:		drought. Area is high	nly disturbe						J		
HYDROLOGY		-1 (0)	C: 1: 1	1	,	\					
_		ators (Check here i	findicators	are not	present				Socondary:		
<u>Primary:</u> □ A1 - Surface Water				П	B9 - Wate	er-Stained	Leaves	<u>Secondary:</u> □ B6 - Surface Soil Cracks			
	A2 - High Wa			_	B13 - Aqu			☐ B10 - Surface Soil Cracks			
<u> </u>	A3 - Saturation				B15 - Mai	•		 □ B16 - Moss Trim Lines □ C2 - Dry-Season Water Table □ C8 - Crayfish Burrows □ C9 - Saturation Visible on Aerial Imagery □ D1 - Stunted or Stressed Plants 			
	B2 - Sedime				C1 - Hydr C3 - Oxid	-	ospheres on Living Roots				
	B3 - Drift De	•					educed Iron				
	B4 - Algal Ma			_			eduction in Tilled Soils				
	B5 - Iron Dep	oosits on Visible on Aerial Ima	ngerv		C7 - Thin Other (Ex					D2 - Geomorphic D3 - Shallow Aqu	
		y Vegetated Concave S		Ч	Other (Ex	CPICHT III T	omano)			D4 - Microtopogr	
									V	D5 - FAC-Neutra	l Test
Field Observa	tions:										
Surface Water		☐ Yes ☑ No	Depth:		(in.)			Wetland Hy	drology Pr	resent?	l Yes □ No
Water Table P		☐ Yes ☑ No	Depth:		(in.)			Wolland Hy	arology i i		1 100 🗀 110
Saturation Pres	sent?	☐ Yes ☑ No	Depth:		(in.)						
Describe Recor	ded Data (str	eam gauge, monitori	ng well, aeri	ial photos	s, previous	s inspecti	ons), if available:		N/A		
-							-				
Remarks:	Statewide of	drought. Area is high	nly disturbe	ed		<u> </u>					
	Statewide o	drought. Area is higl	nly disturbe	ed		·					
SOILS											
SOILS Map Unit Name	e:	Monarda-Telos com	nplex, 0 to 8	8 percen			eries Drainage Class:	: Somewhat p	oorly drain	ed	
SOILS Map Unit Name Taxonomy (Su	e: bgroup):	Monarda-Telos com Loamy, mixed, activ	nplex, 0 to a	8 percer gid, shal	low Aeric	Endoaq	uepts	·	•		
SOILS Map Unit Name Taxonomy (Su Profile Descri	e: bgroup): ption (Describe to	Monarda-Telos com Loamy, mixed, activ	nplex, 0 to a	8 percer gid, shal	low Aeric	Endoaq		Covered/Coated Sand Gra	•		Texture
SOILS Map Unit Name Taxonomy (Su Profile Descri Top	e: bgroup): ption (Describe to Bottom	Monarda-Telos con Loamy, mixed, activ	nplex, 0 to 8 /e, acid, frig	8 percer gid, shal absence of ind Matrix	low Aeric	Endoaq	uepts D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Gra	ins; Location: PL=Po	ore Lining, M=Matrix)	Texture (e.g. clav. sand. loam)
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth	e: bgroup): ption (Describe to Bottom Depth	Monarda-Telos com Loamy, mixed, activ	nplex, 0 to 8 /e, acid, frighted	8 percer gid, shal absence of ind Matrix Moist)	llow Aeric	Endoaq	Depletion, RM=Reduced Matrix, CS=C	Covered/Coated Sand Gra	•	ore Lining, M=Matrix) Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Su Profile Descri Top	e: bgroup): ption (Describe to Bottom	Monarda-Telos com Loamy, mixed, activ the depth needed to document the ind Horizon	nplex, 0 to 8 /e, acid, frig	8 percer gid, shal absence of ind Matrix	low Aeric	Endoaq C=Concentration	uepts D=Depletion, RM=Reduced Matrix, CS=0	Covered/Coated Sand Grai	Type	ore Lining, M=Matrix)	
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 10	Monarda-Telos con Loamy, mixed, activ the depth needed to document the inc Horizon	nplex, 0 to 8 /e, acid, frighticator or confirm the Color (I	8 percengid, shale absence of ind Matrix Moist) 5/3	llow Aeric icators.) (Type: C	Endoaq C=Concentration	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Gra	Type	Location	(e.g. clay, sand, loam)
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 10	Monarda-Telos con Loamy, mixed, activ the depth needed to document the inc Horizon	nplex, 0 to 8 /e, acid, frighter dicator or confirm the Color (I 2.5Y	8 percengid, shale absence of ind Matrix Moist) 5/3	llow Aeric icators.) (Type: C	Endoaq C=Concentration	D=Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Gra Mottles %	Type	Location	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 10	Monarda-Telos com Loamy, mixed, activ the depth needed to document the ind Horizon	rplex, 0 to 8 /e, acid, frigulation or confirm the Color (F	8 percengid, shale absence of index Matrix Moist) 5/3	low Aeric icators.) (Type: C	Endoaq C=Concentration	Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Gra Mottles %	Type	Location	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 10	Monarda-Telos com Loamy, mixed, activ the depth needed to document the inc Horizon	rplex, 0 to 8 /e, acid, frighted friends frien	8 percengid, shale absence of index Matrix Moist) 5/3	% 100 100 100 100 100 100	Endoaq C=Concentration	Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 10	Monarda-Telos com Loamy, mixed, activ the depth needed to document the inc Horizon	rplex, 0 to 8 /e, acid, frighter friends frien	8 percengid, shale absence of ind Matrix Moist) 5/3	Now Aeric	Endoaq C=Concentration	Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 10	Monarda-Telos com Loamy, mixed, activ the depth needed to document the inc Horizon	nplex, 0 to 8 /e, acid, frighter friends of the fri	8 percengid, shale absence of ind Matrix Moist) 5/3	Name	Endoaq C=Concentration	Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 Soil Field In	Monarda-Telos com Loamy, mixed, activ the depth needed to document the ind Horizon	rplex, 0 to 8 /e, acid, frighter friends frien	8 percengid, shale absence of ind Matrix Moist) 5/3 tors are	% 100 not prese	Endoaq C=Concentration	Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Gra Mottles % Indicator	Type	Location	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 Soil Field In	Monarda-Telos com Loamy, mixed, active the depth needed to document the incention Horizon	rplex, 0 to 8 /e, acid, frighter friends frien	8 percengid, shale absence of ind Matrix Moist) 5/3 tors are	% 100 100 100 100 100 100 100 100 100 10	Endoaq C=Concentration	Depletion, RM=Reduced Matrix, CS=C Color (Moist)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 Soil Field In	Monarda-Telos com Loamy, mixed, activ the depth needed to document the ind Horizon	rplex, 0 to 8 /e, acid, frighter friends frien	8 percengid, shale absence of ind Matrix Moist) 5/3 tors are	% 100 not prese S8 - Poly S9 - Thin	Endoaq C=Concentration ent 以: value Belo	Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B)	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 Soil Field In A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge	Monarda-Telos com Loamy, mixed, active the depth needed to document the incention Horizon ndicators (check here) pipedon istic en Sulfide	rplex, 0 to 8 /e, acid, frighter friends frien	8 percengid, shale absence of ind Matrix Moist) 5/3 tors are	% 100 not presesses Polyman S9 - Thin F1 - Loan F2 - Loan	Endoaq C=Concentration value Belo Dark Surf my Mucky my Gleyed	Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix	Covered/Coated Sand Gra Mottles %	Type	Location Locati	(e.g. clay, sand, loam) silt loam (LRR K, L, R)
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10	Monarda-Telos com Loamy, mixed, active the depth needed to document the ince Horizon	rplex, 0 to 8 /e, acid, frighter friends of the fri	8 percengid, shale absence of ind Matrix Moist) 5/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl	Endoaq ==Concentration ent 🖸: value Belo Dark Surf my Mucky my Gleyed eted Matri	Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X	Covered/Coated Sand Gra Mottles %	Type	Location Locati	(e.g. clay, sand, loam) silt loam (LRR K, L, R) (LRR K, L, R)
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 NRCS Hydric	e: bgroup): ption (Describe to Bottom Depth 10 Soil Field Ir A1- Histosol A2 - Histic E A3 - Black H A4 - Hydroge A5 - Stratified A11 - Deplete	Monarda-Telos com Loamy, mixed, active the depth needed to document the incention Horizon	rplex, 0 to 8 /e, acid, frighter friends of the fri	8 percengid, shale absence of ind Matrix Moist) 5/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo	Endoaq C=Concentration	Depletion, RM=Reduced Matrix, CS=C Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface	Covered/Coated Sand Grain Mottles %	Type	Location Locati	(e.g. clay, sand, loam) silt loam (LRR K, L, R) (LRR K, L, R)
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 10	Monarda-Telos com Loamy, mixed, active the depth needed to document the incention Horizon	rplex, 0 to 8 /e, acid, frighter friends of the fri	8 percengid, shale absence of ind Matrix Moist) 5/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	Endoaq =Concentration	Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Gra Mottles %	Type	Location Locati	(e.g. clay, sand, loam) silt loam (LRR K, L, R) (LRR K, L, R) (LRR K, L, R)
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Depth 10	Monarda-Telos com Loamy, mixed, active the depth needed to document the incention Horizon	rplex, 0 to 8 /e, acid, frighter friends of the fri	8 percengid, shale absence of ind Matrix Moist) 5/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	Endoaq =Concentration	Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Grain Mottles %	Type	Location Locati	(e.g. clay, sand, loam) silt loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B)
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Bottom Depth 10	Monarda-Telos com Loamy, mixed, active the depth needed to document the ince Horizon	rplex, 0 to 8 /e, acid, frighter friends of the fri	8 percengid, shale absence of ind Matrix Moist) 5/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	Endoaq =Concentration	Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Grain Mottles %	Type	Location Locati	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Depth 10	Monarda-Telos com Loamy, mixed, active the depth needed to document the ince Horizon	rplex, 0 to 8 /e, acid, frighter friends of the fri	8 percengid, shale absence of ind Matrix Moist) 5/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	Endoaq =Concentration	Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Grain Mottles %	Type	Location Locati	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Depth 10	Monarda-Telos com Loamy, mixed, active the depth needed to document the incention Horizon	rplex, 0 to 8 /e, acid, frighter friends of the fri	8 percengid, shale absence of ind Matrix Moist) 5/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	Endoaq =Concentration	Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Grain Mottles %	Type	Location Locati	(e.g. clay, sand, loam) silt loam
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Depth 10	Monarda-Telos com Loamy, mixed, active the depth needed to document the ince Horizon	rplex, 0 to 8 /e, acid, frighter friends of the fri	8 percengid, shale absence of ind Matrix Moist) 5/3 tors are	% 100	Endoaq =Concentration	Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) silt loam 149B) R K, L, R) (LRR K, L, R) (LRR K, L, R) ils (MLRA 149B) 145, 149B) face must be present, unless
SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0	e: bgroup): ption (Describe to Depth 10	Monarda-Telos com Loamy, mixed, active the depth needed to document the incention Horizon	rplex, 0 to 8 /e, acid, frighter friends of the fri	8 percengid, shale absence of ind Matrix Moist) 5/3 tors are	% 100 not prese S8 - Poly S9 - Thin F1 - Loan F2 - Loan F3 - Depl F6 - Redo F7 - Depl	Endoaq =Concentration	Depletion, RM=Reduced Matrix, CS=0 Color (Moist) w Surface (LRR R, MLRA 149B) ace (LRR R, MLRA 149B) Mineral (LRR K, L) Matrix X urface Surface Surface	Covered/Coated Sand Grain Mottles %	Type	Location	(e.g. clay, sand, loam) silt loam

TETRA TECH

WETLAND DETERMINATION DATA FORM Northeast and Northcentral Region

Project/Site: Western Maine Renewable Energy Project Wetland ID: W106EI Sample Point Wetland

VEGETATION	(Species identified in all uppercase	e are non-native	e species.)			
Tree Stratum (Plo	t size: 10 meter radius)					
	<u>Species Name</u>	-	% Cover Do	<u>minant</u>	Ind.Status	Dominance Test Worksheet
1.						
2.						Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.						
4.						Total Number of Dominant Species Across All Strata: 4 (B)
5.						
6.						Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.						
8.						Prevalence Index Worksheet
9.						
						
10.	_ 	1-1-0-yor =				OBL spp. 5 x 1 = 5
	10	otal Cover =	0			FACW spp. 15 x 2 = 30
						FAC spp.
Sapling/Shrub Stra	atum (Plot size: 5 meter radius)				=: 011	FACU spp. 80 x 4 = 320
1.	Populus tremuloides		10	У	FACU	UPL spp 0
2.	Salix alba		5	n	FACW	
3.	Alnus incana		5	n	FACW	Total(A)(B)
4.						
5.						Prevalence Index = B/A = 3.550
6.						
7.						
8.						Hydrophytic Vegetation Indicators:
9.						
						☐ Yes ☑ No Rapid Test for Hydrophytic Vegetation
10.	 	1-1-0				
	10	otal Cover =	20			
						☐ Yes ☑ No Morphological Adaptations (Explain) *
Herb Stratum (Plo	t size: 2 meter radius)					☐ Yes ☑ No Problem Hydrophytic Vegetation (Explain) *
1.	Scirpus cyperinus		5	n	OBL	* Indicators of hydric soil and wetland hydrology must be
2.	Spiraea alba		5	n	FACW	present, unless disturbed or problematic.
3.	Trifolium pratense		25	У	FACU	procent, amous distances of procentials.
4.	Rudbeckia hirta		5	n	FACU	Definitions of Vegetation Strata:
5.	Galium aparine		10	У	FACU	
6	Vicia americana		5	n	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Symphyotrichum pilosum		5	n	FACU	height (DBH), regardless of height.
8.	Solidago canadensis		20	У	FACU	
9.						Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft.
10.						tall.
						
11.						Lie-Le All harbassous (non-woody) plants, regardless of size, and
12.						Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.						
14.						
15.						Woody Vines - All woody vines greater than 3.28 ft. in height.
	To	otal Cover =	80			
Woody Vine Stratu	um (Plot size: 10 meter radius)					
1.						
2.						
3.						Hydrophytic Vegetation Present ☑ Yes ☐ No
						Hydrophytic vegetation riesent in 165 in 140
4.						
5.						
	1)	otal Cover =	0			
Remarks:						
Additional Ren	narks:					

Appendix E. Representative Photographs



Vernal Pools

Photo: 01

Description: Vernal pool VP19CP, a significant

vernal pool.

Date: May 6, 2020

Source: Tetra Tech, Inc.



Photo: 02

Description: Vernal pool VP19CP, a significant vernal pool. Photo depicts spotted salamander (Ambystoma maculatum) egg masses observed in

the pool.

Date: May 20, 2020

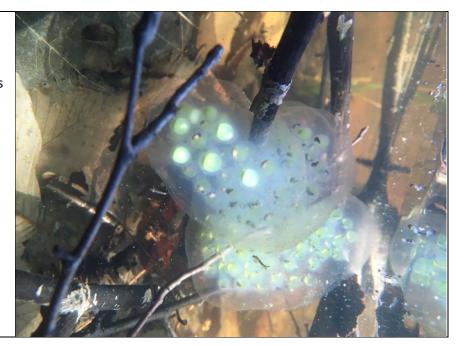


Photo: 03

Description: Vernal pool VP40DS, a natural-modified, significant

vernal pool.

Date: May 6, 2020

Source: Tetra Tech, Inc.



Wetlands

Photo: 04

Description: Wetland W17DS, located adjacent to clearing near USAF Radar Station field road berm. Trees have buttressed roots with saturated soils present.

Date: June 2, 2020



Photo: 05

Description: Wetland W60EI; watercourse S32EI runs through the northeast section of the

wetland.

Date: June 22, 2020 Source: Tetra Tech, Inc.



Photo: 06

Description: Wetland W08EI; typical forested wetland with shallow soils to bedrock. Dark organic soils with depleted matrix 2–6 inches above rock

ledge.

Date: June 2, 2020



Photo: 07

Description: Wetland W17EI; larger forested wetland with shallow soils.

Date: June 4, 2020 Source: Tetra Tech, Inc.



Photo: 08

Description: Typical regenerating trees in upland forested area.

Date: June 16, 2020 Source: Tetra Tech, Inc.



Photo: 09

Description: Wetland W34EI; depressional, emergent, wetland that is surrounded by upland

forest.

Date: June 16,2020 Source: Tetra Tech, Inc.



Photo: 10

Description: Wetland W30El; seepy wetland on hillslope shallow, dark organic muck over ledge/rock material; disturbed from timber harvest activities.

Date: June 15, 2020



Photo: 11

Description: Wetland W61EI; emergent, naturalized, depression adjacent to the road.

Date: June 23, 2020

Source: Tetra Tech, Inc.



Photo: 12

Description: Wetland W43EI; forested isolated

depression.

Date: June 16, 2020 Source: Tetra Tech, Inc.



Photo: 13

Description: Wetland W21DS; emergent wetland in USAF Radar Station field. Some portions of the wetland continue into a forested

area.

Date: May 5, 2020

Source: Tetra Tech, Inc.



Photo: 14

Description: Wetland W06KN continues off-Site and contains a watercourse that flows into Chase Pond.

Date: December 22, 2020



Watercourses

Photo: 15

Description: Ephemeral watercourse S24EI; flows southeast from wetlands W49EI to W48EI.

Date: June 17, 2020, 2020 Source: Tetra Tech, Inc.



Photo: 16

Description: Intermittent watercourse S32EI; crosses the Study Area. Ephemeral watercourse S33EI is a tributary to this watercourse, and both flow through wetland W59EI.

Date: June 22, 2020 Source: Tetra Tech, Inc.



Photo: 17

Description: Perennial watercourse S51EI (Bassett Brook); flows south and is crossed by a road proposed for accessing the western turbine pad locations.

Date: July 21, 2020 Source: Tetra Tech, Inc.



Photo: 18

Description: Watercourse S51EI (Bassett Brook); Photo of the approximately 7-foot culvert outlet with some damage.

Date: September 10 , 2020



Photo: 19

Description: Intermittent watercourse S52EI; crosses a road that is proposed for accessing the western turbine locations.

Date: September 23, 2020

Source: Tetra Tech, Inc.



Photo: 20

Description: Watercourse S01KN flows south through a culvert in a road, towards Chase Pond.

Date: December 22, 2020



Photo: 21

Description: General overview photo of a USAF Radar Station field. Note stunted vegetation in foreground and regenerating forested area in background.

Date: June 4, 2020

Source: Tetra Tech, Inc.



Photo: 22

Description: Stream Road,

facing south.

Date: June 23, 2020 Source: Tetra Tech, Inc.

