# 2006 Vernal Pool Survey Report for the Kibby Wind Power Project

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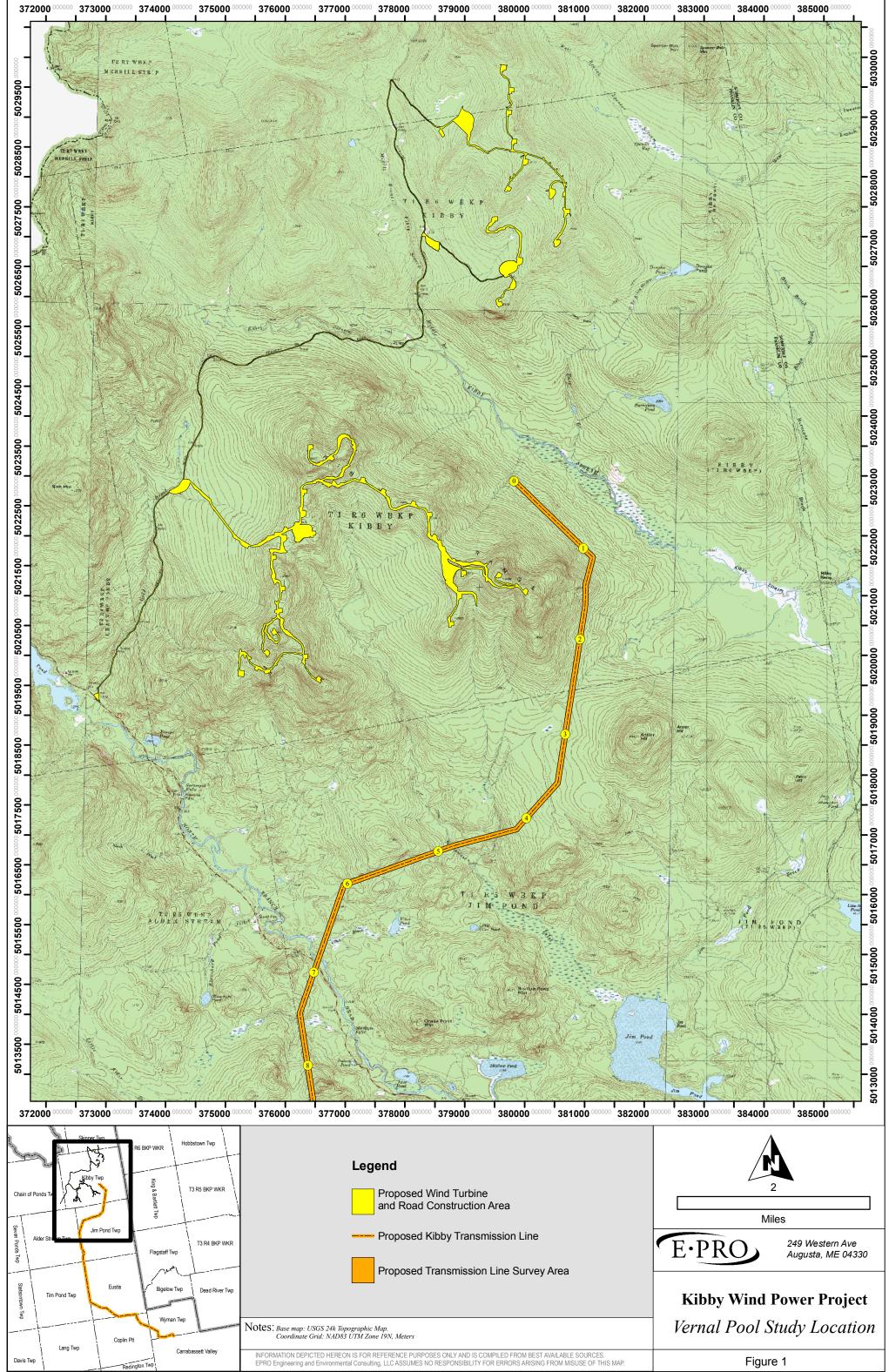
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# **1.0 INTRODUCTION**

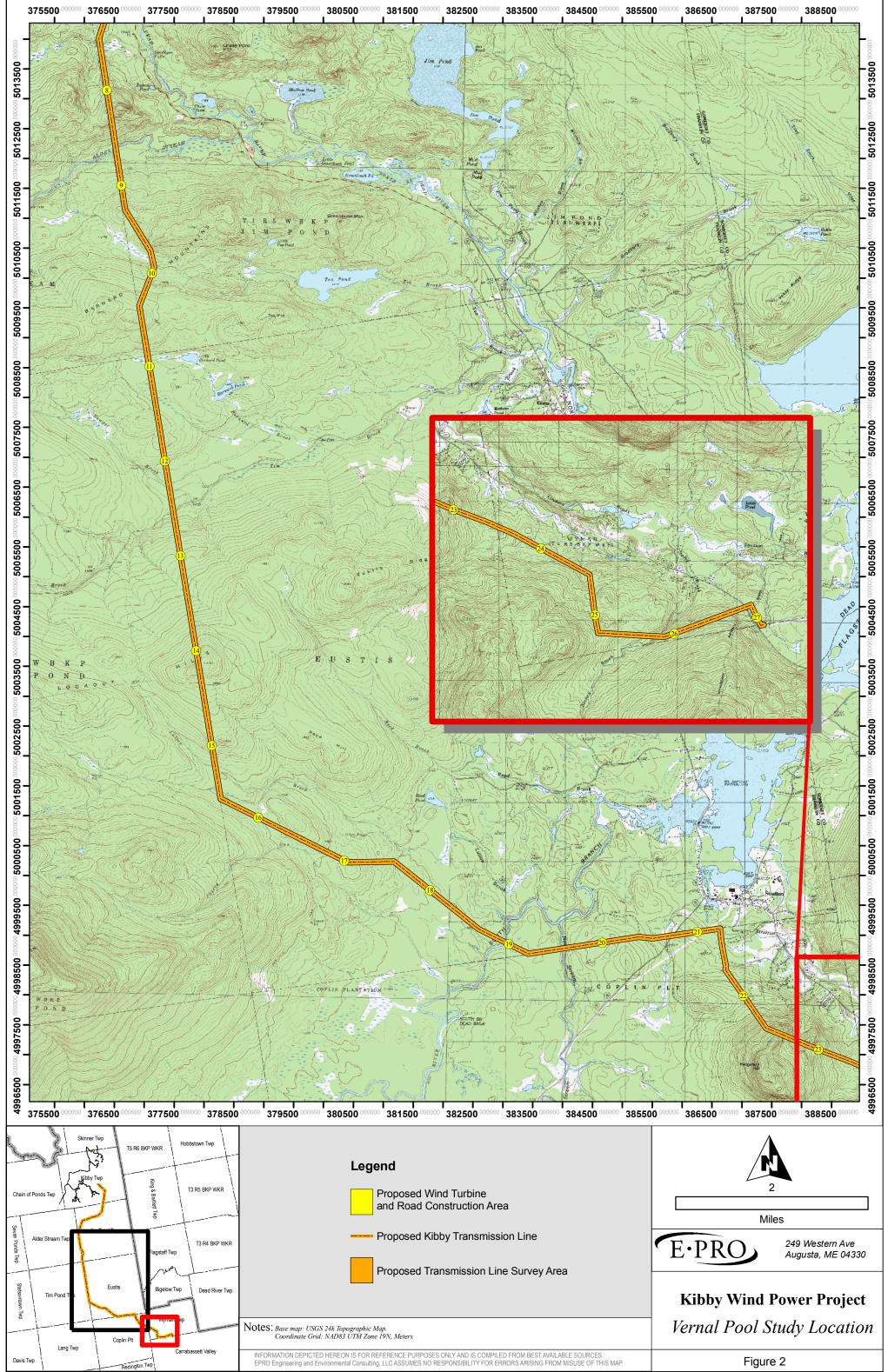
TransCanada Maine Wind Development Inc. (TransCanada) is proposing to develop, own and operate a 132 megawatt (MW) wind power generating facility in the Boundary Mountains of Western Maine known as the Kibby Wind Power Project. A vernal pool survey was conducted during the spring of 2006 where project elements are likely to occur. Survey areas included the potential locations for wind turbines along two ridgelines located in Kibby and Skinner Townships (Figure 1) that are within commercial forest lands owned by Plum Creek, a project substation, and a transmission line corridor that would extend from the project substation through commercial forest lands to the existing Bigelow Substation in Carrabassett Valley (Figure 2).

The specific objectives of vernal pool surveys were to: 1) identify potential vernal pools within the project area; 2) determine if the identified pools were being used by breeding amphibians; and, 3) determine if any of the pools meet the criteria for designation as Significant Vernal Pools in accordance with the Maine Department of Environmental Protection (MDEP) Natural Resources Protection Act (NRPA) Chapter 335, using accepted agency protocols.

The purpose of this report is to document the findings of vernal pool identification and assessment surveys performed in the spring of 2006.



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## 2.0 STUDY METHODOLOGY

A draft protocol for this effort was prepared and submitted to the Maine Department of Inland Fisheries and Wildlife (MDIFW), the Land Use Regulation Commission (LURC), and the U.S. Fish and Wildlife Service (USFWS) on April 27, 2006. Information and procedures utilized for this protocol were consistent with current agency consensus, and all comments received on the draft protocol were incorporated into the final version. This final version of the protocol is provided in Appendix A,

Consistent with protocol requirements, all field efforts for the vernal pool surveys were conducted between May 3, 2006 and May 19, 2006, and within appropriate conditions for such survey efforts.

## 3.0 **RESULTS AND DISCUSSION**

#### 3.1 Vernal Pool Sampling

Using existing information and the sampling methodology described in the protocol, a total of 43 areas were identified and assessed to determine if they functioned as vernal pools. The following are the general results of the vernal pool sampling and assessment effort:

- Twenty-three of the areas sampled were determined to not meet either the federal or state definitions of vernal pools. These are discussed in Section 3.1.1;
- Eighteen of the areas were determined to be natural, functional vernal pools (they met both the federal and state definitions of vernal pools), but were not classified as significant vernal pools, per Chapter 335 criteria. These are discussed in Section 3.1.2;
- One area was determined to be a significant vernal pool, as described in Chapter 335. This area is discussed in Section 3.1.2; and
- One area met the United States Army Corps of Engineers (USACE) definition of a vernal pool, but did not meet the MDEP definition. This area is discussed on Section 3.1.3.

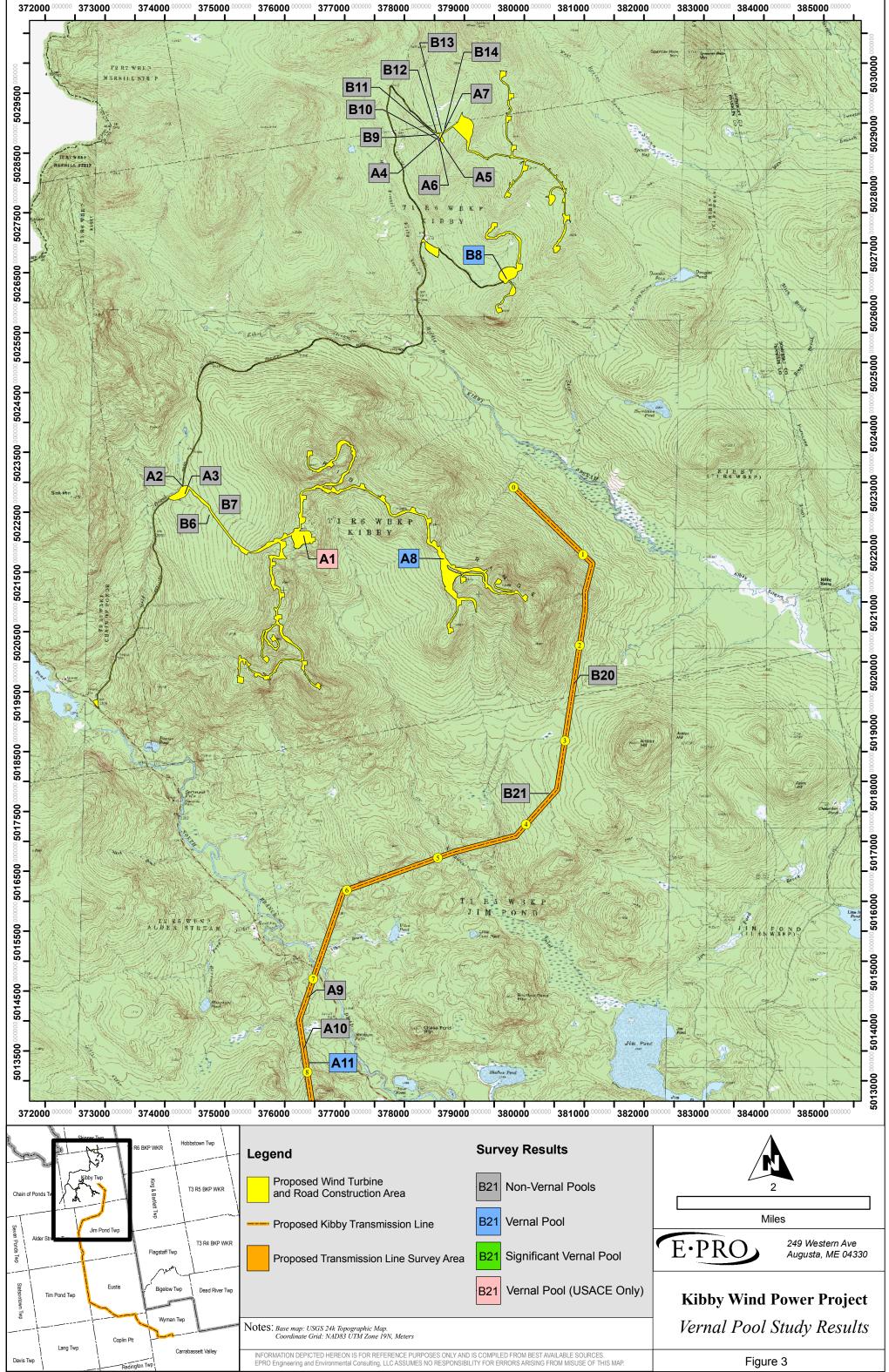
The results of the overall assessment effort are fully described in the following sections. Figures 3 and 4 depict the approximate locations of all the areas that were assessed. For purposes of this study and as reflected in this report, each area assessed as a potential vernal pool was identified and labeled based on the sequence that it was encountered and assessed, as well as on the field crew by which it was assessed. For example, the 8<sup>th</sup> area encountered and assessed by Team B was labeled B8. There were three vernal pool survey crews; Teams A, B, and C.

#### 3.1.1 Non-Vernal Pools

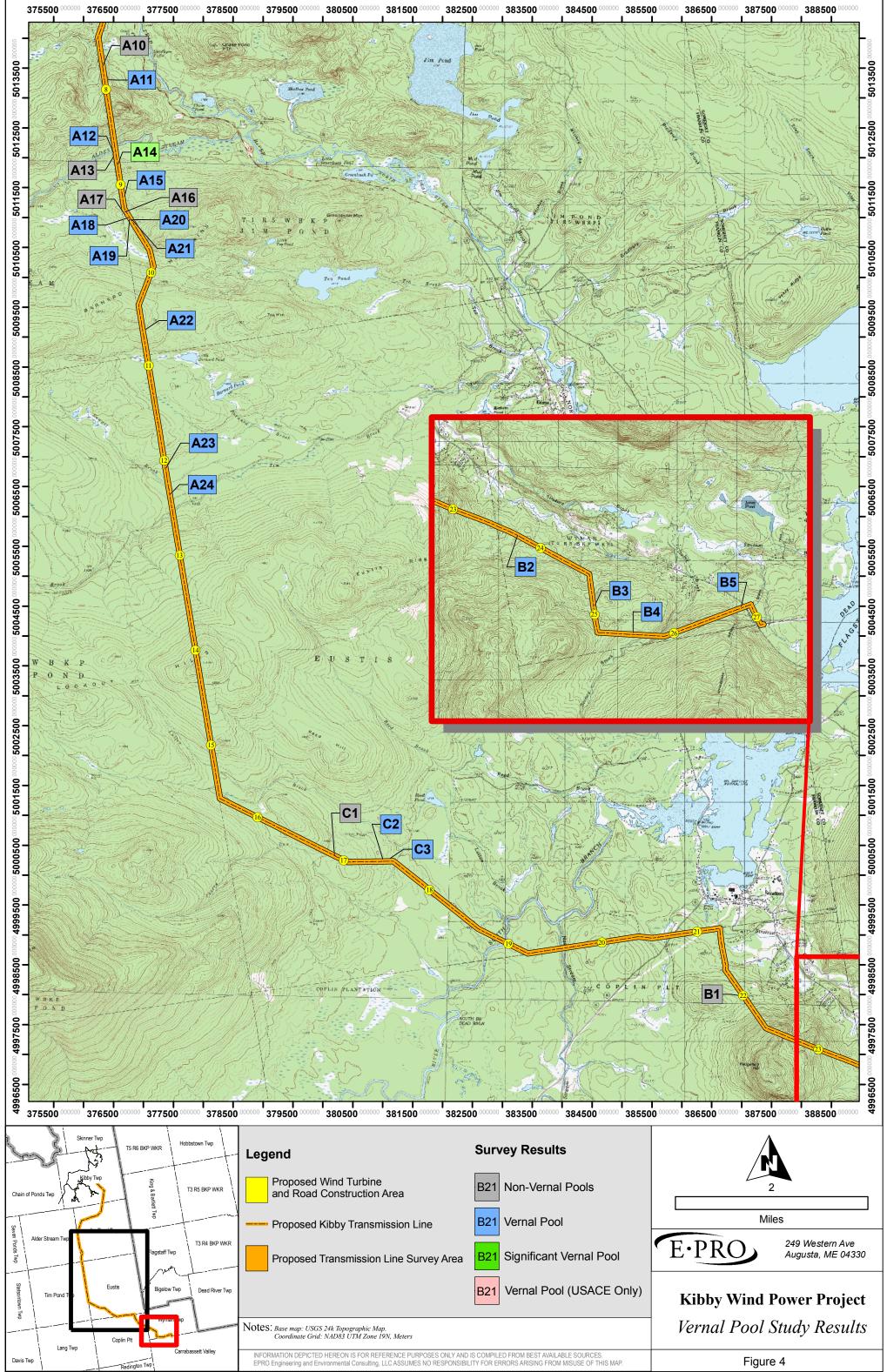
As mentioned in Section 3.1, 43 potential vernal pool areas were examined in the spring of 2006 (see Table 1). Of this total, 23 contained egg masses, primarily wood frog (*Rana sylvatica*), but were determined not to be vernal pools. These 23 areas are color-coded as gray on Figures 3 and 4 and are listed in Table 1. Twenty-two of these areas were deemed not to be vernal pools because they were man-made rather than natural pools. The remaining area (labeled C1 on Figure 4) was not a vernal pool because it occurred in a large beaver (*Castor canadensis*) complex with an inlet stream with high water quality. The high water quality indicates that the stream and beaver dam are likely to contain a viable population of predatory fish such as eastern brook trout (*Salvelinus fontinalis*). Most of the man-made areas were ruts made by skidders or other forest harvesting equipment in harvested forest, and ditches next to logging roads. An example of one of the man-made areas is depicted in Photo 1.



Photo 1: View of typical non-vernal pool (A16) that contained egg masses.



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#### 3.1.2 Functional Vernal Pools (Meeting Both USACE and MDEP Definitions)

In accordance with both the USACE and MDEP NRPA Chapter 355 definitions, a total of 19 natural, functional vernal pools were identified and assessed during the spring of 2006. These are listed in Table 2. Of this total, 18 were not significant vernal pools and one (designated as A14) met the minimum the criteria for designation as a significant vernal pool as described in Chapter 335. Specifically, A14 was determined to be a significant vernal pool because it contained 28 spotted salamander (*Ambystoma maculatum*) egg masses. This vernal pool is located within the proposed project transmission line corridor at approximate milepost 10.7, and is approximately 20 feet long and 10 feet wide. The 18 natural, functional pools that did not meet the threshold criteria for designation as significant vernal pools are color-coded as blue on Figures 3 and 4; whereas the single significant vernal pool is color-coded as green on Figure 4.

Based on field observations, none of these vernal pools appeared to be man-made and all were functioning as vernal pool habitat. Of the 19 vernal pools (1 significant, 18 not significant), ten contained wood frog and spotted salamander egg masses (significant vernal pool A14 is included in this category), seven contained wood frog egg masses, and three contained spotted salamander egg masses. The majority of these vernal pools occurred as part of larger wetland complexes and they ranged in size from several feet in diameter to several acres. Photo 2 is a typical depiction of the 18 vernal pools that were determined not to be significant (in accordance with Chapter 335); whereas Photo 3 depicts significant vernal pool A14.



Photo 2: View of vernal pool A8 (located on the ridgelines), an area with 15 wood frog egg masses.



Photo 3: View of significant vernal pool A14.

## 3.1.3 USACE Vernal Pools

One area (identified as A1 on Figure 2a and Table 2) met the USACE definition of a vernal pool, but did not meet the definition of a vernal pool as described in Chapter 335. This area is color-coded in pink on Figure 2a.

The USACE and Chapter 335 definitions are as follows:

### USACE Programmatic General Permit

"Temporary to permanent bodies of water occurring in shallow depressions that fill during the spring and fall and may dry during the summer. Vernal pools have no permanent or viable populations of predatory fish. Vernal pools provide the primary breeding habitat for wood frogs, spotted salamanders, blue-spotted salamanders, and fairy shrimp, and provide habitat for other wildlife including several endangered and threatened species."

### Chapter 335

"A vernal pool, also referred to as a seasonal forest pool, is a natural, temporary to semipermanent body of water occurring in a shallow depression that typically fills during the spring or fall and may dry during the summer. Vernal pools have no permanent inlet and no viable populations of predatory fish. A vernal pool may provide the primary breeding habitat for wood frogs (Rana sylvatica), spotted salamander (Ambystoma maculatum), blue-spotted salamanders (Ambystoma laterale), and fairy shrimp (Eubranchipus sp.), as well as valuable habitat for other plants and wildlife including several rare, threatened, and endangered species. A vernal pool intentionally created for the purposes of compensatory mitigation is included in this definition."

Consistent with the USACE definition, A1 is a permanent body of water with no permanent or viable populations of predatory fish (it is very shallow [2-3 feet deep] and therefore likely freezes solid during most winters, and has poor water quality) and, in spring 2006, was a breeding habitat for wood frog (600+ egg masses), spotted salamander (70+ egg masses), and blue-spotted salamander (2 egg masses).

A1 did not meet the definition of a vernal pool under Chapter 335 because 1) it is permanent rather than semi-permanent body of water and, 2) it has three permanent inlets. However, consistent with Chapter 305 of the Natural Resources Protection Act, A1 is a freshwater wetland of special significance because it contains >20,000 square feet of open water habitat. A1 is depicted in Photo 4 below.



Photo 4: View of area A1.

#### 3.1.4 Rare Threatened and Endangered Species

No federal- or state-listed rare, threatened, or endangered species used as indicators of significant vernal pools were observed during field surveys. Species that field crews were instructed to document if encountered included:

- Ringed Boghaunter (*Williamsonia lintneri*)
- Spotted Turtle (*Clemmys guttata*)
- Blanding's Turtle (*Emydoidea blandingi*)
- Ribbon Snake (*Thamnophis sauritur*)
- Wood Turtle (*Clemmys insculpta*)

State-listed Endangered State-listed Threatened State-listed Endangered State-listed Special Concern State-listed Special Concern

<b>6</b>		Tuble II I			
I.D. Label	Setting	How Created (if man-made)	Forested Buffer <sup>1</sup>	Located on Ridgeline or Transmission Line	Transmission Line Milepost
A2	Man-made	Old logging road	No, clear cut	Ridgeline	
A3	Man-made	Old logging road	No, clear cut	Ridgeline	
A4	Man-made	Skidder ruts	Sparse (5%)	Ridgeline	
A4 A5	Man-made	Skidder ruts	Sparse (5%)	Ridgeline	
A6	Man-made	Skidder ruts	Sparse (5%)	Ridgeline	
A0 A7	Man-made	Skidder ruts	Sparse (5%)	Ridgeline	
A7 A9	Man-made	Old logging road	Dense (95%)	Transmission	7.2
A10	Man-made	Skidder ruts	Dense (95%)	Transmission	7.2
A10 A13	Man-made	Old gravel pit	No, electrical ROW	Transmission	7.9
A16	Man-made	Skidder ruts	Moderate (40%)	Transmission	9.3
A17	Man-made	Old logging road	No, clear cut	Transmission	9.35
B1	Man-made	Vehicle tracks in electrical ROW	Moderate (50%)	Transmission	22.05
B6	Man-made	Ditch next to logging road	Dense (90%)	Ridgeline	
B7	Man-made	Borrow pit next to woods road	Dense (90%)	Ridgeline	
B9	Man-made	Ditch next to logging road	No	Ridgeline	
B10	Man-made	Skidder ruts	No	Ridgeline	
B11	Man-made	Skidder ruts	No	Ridgeline	
B12	Man-made	Skidder ruts	No	Ridgeline	
B13	Man-made	Skidder ruts	No	Ridgeline	
B14	Man-made	Skidder ruts	No	Ridgeline	
B20	Man-made	Skidder ruts	Dense (70%)	Transmission	2.4
B21	Man-made	Skidder ruts	Moderate (50%)	Transmission	3.55
C1	Natural, Beaver Flowage		Moderate (30%)	Transmission	16.95

 Table 1: Non-Vernal Pools

<sup>&</sup>lt;sup>1</sup> When present, forested buffer given as percent of total critical upland/wetland habitat around the assessed area.

I.D. Label	Setting (Isolated Upland, Wetland Complex <sup>2</sup> , Beaver Dam, Floodplain)	Size (in feet) <sup>3</sup>	Locations (Transmission Line or Ridgeline)	Transmission Line Milepost	Significant Vernal Pool (Chapter 335)
A1 <sup>4</sup>	Wetland Complex	Several acres	Ridgeline		No
A8	Wetland C06-165	80' x 30'	Ridgeline		No
A11	Wetland B06-115	8' x 8'	Transmission line	8	No
A12	Floodplain, Wetland B06-113	125' x 35'	Transmission line	8.55	No
A14	Wetland B06-112	20' x 10'	Transmission line	8.8	Yes, contained 28 spotted salamander egg masses
A15	Isolated Upland	75' x 50'	Transmission line	9.1	No
A18	Wetland B06-108	15' x 5'	Transmission line	9.4	No
A19	Wetland B06-108	12' x 4'	Transmission line	9.45	No
A20	Wetland B06-108	6' x 4'	Transmission line	9.45	No
A21	Wetland B06-108	20' x 5'	Transmission line	9.5	No
A22	Isolated Upland	150' x 100'	Transmission line	10.6	No
A23	Wetland B06-97	30' x 12'	Transmission line	12	No
A24	Wetland B06-95	15' x 10'	Transmission line	12.4	No
B2	Wetland B06-84	15' x 10'	Transmission line	23.7	No
B3	Wetland A06-130	10' x 4'	Transmission line	24.9	No
B4	Wetland A06-123	12' x 5'	Transmission line	25.5	No
B5	Wetland B06-1	60' x 50'	Transmission line	26.75	No
B8	Wetland D06-35	20' x 15'	Ridgeline		No
C2	Wetland A06-159	15' x 10'	Transmission line	17.4	No
C3	Wetland A06-157	60' x 45'	Transmission line	17.5	No

#### Table 2: Natural, Functional Vernal Pools in the Proposed Project Area

 <sup>&</sup>lt;sup>2</sup> When a vernal pool is associated with a wetland complex, the wetland, as identified and labeled during wetland mapping conducted in 2006, is referenced.
 <sup>3</sup> Vernal pool dimensions are presented in feet, with the exception of A25, which is up to several acres in size.
 <sup>4</sup> Meets USACE vernal pool definition only, not the Chapter 335 definition.

## 4.0 SUMMARY OF FINDINGS

The following is a summary of results from vernal pool surveys conducted during the spring of 2006.

- A total of 43 potential vernal pools were identified and assessed during the spring of 2006;
- Of this total, 23 contained egg masses of several vernal pool indicator species. However, 22 of these areas were man-made and were not vernal pools as defined in the Department of the Army Programmatic General Permit State of Maine (USACE 2005) and the MDEP Chapter 335 Significant Wildlife Habitat (MDEP 2005). The remaining area was part of a beaver flowage with a perennial inlet stream with high water quality. As a result, this area likely contains a permanent predatory fish population;
- A total of 19 natural, functional vernal pools that met both the USACE and Chapter 335 definitions of vernal pools were identified during 2006 surveys. Two occurred on the ridgelines and 16 occurred within the proposed transmission line corridor;
- Of these 19 vernal pools, one (A14), which is located along the potential electrical transmission line corridor, was confirmed as a significant vernal pool in accordance with the criteria presented in Chapter 335;
- One area, labeled as A1, met the USACE definition of a vernal pool, but did not meet the definition of a vernal pool as described in Chapter 335 as it is a permanent body of water with three permanent inlets and one outlet;
- No rare, threatened, or endangered (RTE) species indicative of vernal pools were observed during the spring 2006 surveys.

### 5.0 **REFERENCES**

- Maine Department of Environmental Protection. 2005. Chapter 335: Significant Wildlife Habitat Draft Revision.
- U.S. Army Corps of Engineers. 2005. Department of the Army Programmatic General Permit State of Maine: NAE-2005-2164. 25 pp.

# **APPENDIX** A

Vernal Pool Sampling and Verification Protocol For the Kibby Wind Power Project

# **KIBBY WIND POWER PROJECT**

## VERNAL POOL SURVEY AND ASSESSMENT PROTOCOL

Prepared for:

TransCanada Energy Ltd.

Prepared by:



April 2006

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A - Vernal Pool Sampling Data Form

### 1.0 INTRODUCTION

#### 1.1 Kibby Wind Power Project Summary

TransCanada Energy Ltd. (TransCanada) is proposing to develop, own and operate a 100–200 megawatt (MW) wind power generating facility in the Boundary Mountains of Western Maine known as the Kibby Wind Power Project. The project is in a location for which a similar project proposal by U.S. Windpower was previously approved by the Land Use Regulation Commission (LURC).

The project will be located in an unincorporated area of Franklin County, Maine. Proposed turbines would be located along two ridgelines within the project area. Other project components include a substation and associated transmission line interconnect with the Central Maine Power Company (CMP) electrical grid (Figures 1 and 2). The property is owned by Plum Creek, and the surrounding areas are currently actively managed for forest products. The Kibby Wind Power Project can take advantage of existing logging roads and cleared areas to access the ridgelines, and forestry activities can continue in a complementary fashion with the project in place. The project will utilize the superior wind resource found in this vicinity to create clean, renewable power generation.

#### 1.2 Vernal Pool Resource Definitions and Criteria

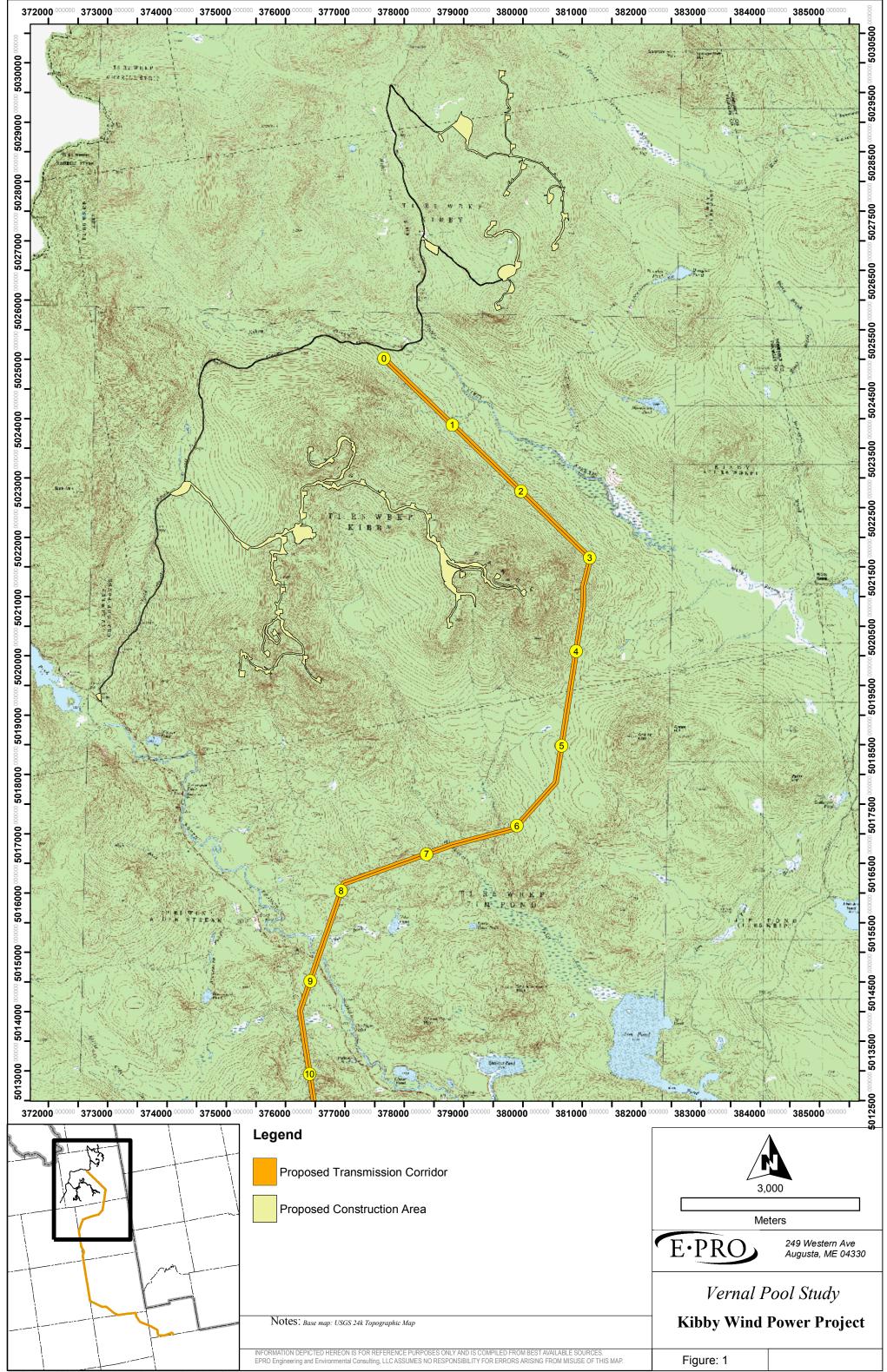
TRC, TransCanada's environmental consultant supporting the Kibby Wind Power Project, is evaluating the potential presence of vernal pools (also known as seasonal forest pools) within and in proximity to the proposed project component locations in order to evaluate potential impacts and avoid and minimize disturbance where possible. For the purposes of this effort, TRC has adopted the vernal pool definition as described in the Department of the Army Programmatic General Permit – State of Maine (USACE 2005) and the draft revision of the Maine Department of Environmental Protection (MDEP) Chapter 335 – Significant Wildlife Habitat (MDEP 2005). With the exception of minor differences, the above-referenced documents have similar definitions of vernal pools. Each respective definition is provided below.

According to the Programmatic General Permit, vernal pools are described as follows:

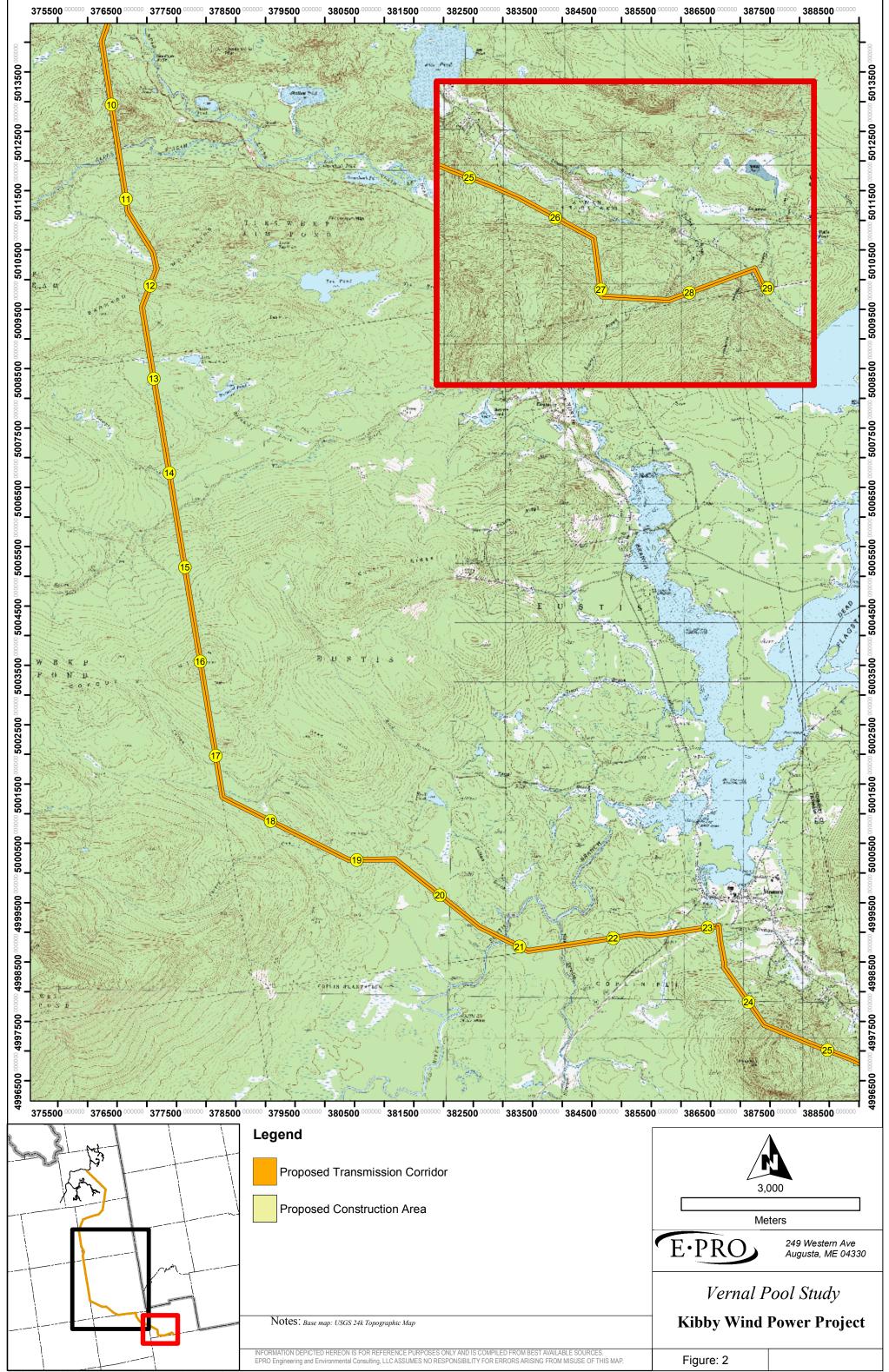
"Temporary to permanent bodies of water occurring in shallow depressions that fill during the spring and fall and may dry during the summer. Vernal pools have no permanent or viable populations of predatory fish. Vernal pools provide the primary breeding habitat for wood frogs, spotted salamanders, blue-spotted salamanders, and fairy shrimp, and provide habitat for other wildlife including several endangered and threatened species."

Within Chapter 335, vernal pools are defined as follows:

"A vernal pool, also referred to as a seasonal forest pool, is a natural, temporary to semipermanent body of water occurring in a shallow depression that typically fills during the spring or fall and may dry during the summer. Vernal pools have no permanent inlet and no viable



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populations of predatory fish. A vernal pool may provide the primary breeding habitat for wood frogs (Rana sylvatica), spotted salamander (Ambystoma maculatum), blue-spotted salamanders (Ambystoma laterale), and fairy shrimp (Eubranchipus sp.), as well as valuable habitat for other plants and wildlife including several rare, threatened, and endangered species. A vernal pool intentionally created for the purposes of compensatory mitigation is included in this definition."

Under the proposed draft revisions of Chapter 335, once a resource has been identified as a vernal pool, it must also be assessed to determine if it is "significant." Significant vernal pool habitat consists of the following: the vernal pool depression and an additional 250 feet defined as critical terrestrial habitat around the vernal pool depression.

The three criteria (which are discussed further in the following sections) for identifying a significant vernal pool include:

- 1. Species abundance (number of egg masses);
- 2. Presence of fairy shrimp (presence in any life stage);
- 3. Use of the pool by one or more state-listed threatened (T) or endangered (E) species that commonly require a vernal pool to complete a critical life stage.

If any one of these criteria is met, the pool is considered significant.

The general timeframes within which to identify egg masses, and the egg mass abundance thresholds and other indicators that are used for determining if a pool is significant are described below.

#### **Identification Period for Egg Masses**

Surveys for counting wood frog egg masses must be conducted just after the peak breeding period. This occurs about two weeks after they start full choruses. Salamanders take longer to lay their eggs, and their eggs do not hatch as quickly as wood frog eggs. Therefore, surveys to count salamander egg masses can be conducted slightly later in the breeding season. Chapter 335 presents the following timeframe guidelines for counting egg masses.

<u>Geographic Region<sup>1</sup></u>	Wood Frogs	Spotted and Blue Spotted Salamanders
Northern Maine	May 1 – May 21	May 10 – May 31
Southern Maine	April 7 – April 21	April 20 – May 21

Seasonal and weather conditions should be considered when applying these approximate survey timeframes. According to Chapter 335, breeding can begin as much as two weeks later during an exceptionally cold spring than a warm, wet spring. Also, these timeframes do not necessarily imply that each pool should be examined more than once. In general, multiple visits to each pool would only need to be conducted if none or very few egg masses are observed in a pool that,

<sup>&</sup>lt;sup>1</sup> The northern Maine region is considered to be that part of the state north of a line extending from Fryeburg to Auburn to Skowhegan to Calais. The southern Maine region is the part of the state south of that same line.

based upon physical characteristics, would be expected to support an abundance of egg masses. In these situations, pools should be revisited under appropriate conditions. This project, which is located in the Northern Maine geographic region, will initiate surveys in early May based on observations of local field conditions.

It is important to note that surveys conducted during an identification period for any one given year are sufficient to establish if a pool is significant or not. Therefore, multi-year surveys are not required.

#### **Species Abundance Criteria**

The following abundance criteria will be utilized in order to determine if a vernal pool is significant. In order to properly count egg masses, surveys will be conducted during the spring identification period as described above.

Species	Abundance Criteria
Blue spotted salamanders	Presence of 10 or more egg masses <sup>2</sup>
Spotted salamanders	Presence of 20 or more egg masses
Wood frogs	Presence of 40 or more egg masses

#### **Other Vernal Pool Indicators**

Outside of the egg mass identification period, the presence of fairy shrimp (individuals or eggs) or the documented use of a pool by a state-listed threatened or endangered species (limited to those that commonly require vernal pools to complete at least one critical life stage) can be used to determine if the pool is significant. In Maine, state-listed threatened or endangered species known to use vernal pools for a least one critical life stage include the following:

Species	Listing	Life Stage(s)
Ringed Boghaunter (dragonfly)	Endangered	Egg laying, Larval Development,
		Larval Emergence
Spotted Turtle	Threatened	Foraging, Courtship, Mating
Blanding's Turtle	Endangered	Foraging, Hibernation
Ribbon Snake	Special Concern	Foraging
Wood Turtle	Special Concern	Foraging

It should be noted that, although ringed boghaunter, spotted turtle, Blanding's turtle, and ribbon snake are considered to be indicators of significant vernal pools, they are generally known to occur in the southern-most portion of the state and are unlikely to be found in the project area. However, vernal pool survey crews will be instructed to document occurrences of these species if they are encountered.

<sup>&</sup>lt;sup>2</sup> An egg mass is defined as three or more individuals eggs clumped in a gelatinous matrix.

### 2.0 PRELIMINARY IDENTIFICATION TOOLS AND METHODS

#### 2.1 Aerial Photograph, USGS Topographic Map, NWI Map, and Soil Survey Map Review

TransCanada will utilize existing available information during the initial identification of potential vernal pools in the vicinity of the proposed wind turbines, substation, construction and operation access roads, and the anticipated transmission line route (hereafter referred to as the Project Area). The most significant of these resources is recent aerial photography. TransCanada has recent 2005/2006 vintage aerial photos of the entire Project Area during leaf-off conditions. The photos were taken at a height sufficient to produce a scale of 1:7,200 (1"=600'). Aerial photography can be a useful tool to identify potential vernal pools and 1:12,000 scale photographs allow for fairly small vernal pools (<100 feet in diameter) to be identified (MNHESP 2001). The larger the scale (e.g., 1:4,800 is a larger scale than 1:12,000), the easier it is to identify small ground features. Generally, scales at least 1:4,800 to 1:12,000 should be obtained to identify small pools (Calhoun, Klemens, 2002).

The project aerial photos, combined with existing USGS, National Wetland Inventory (NWI), and NRCS soil maps, will be reviewed to facilitate the identification of potential basins, pools, and changes in vegetative cover types that suggest potential pools. This information can also be utilized to preliminarily identify potential vernal pools that may occur outside of the Project Area but with overlapping buffers.

#### 2.2 GIS Database Review

TransCanada will examine readily available GIS databases including those maintained by the MDEP, the Maine Department of Inland Fisheries and Wildlife (MDIFW), and the Maine Natural Areas Program (MNAP) for information on the presence of vernal pools in the vicinity of the proposed Project Area.

### 2.3 Compilation of a Table of Potential Vernal Pools

Using the above existing information, a table will be compiled of potential vernal pools to be sampled. Information in this table may include how each potential pool was identified (e.g., aerial photos and/or topo maps), approximate milepost locations, estimated pool sizes (in square feet and acres), location of each potential pool relative to the proposed Project Area components (including centerlines for the transmission line and access roads and turbines sites), and land-use/terrestrial vegetation cover types around each pool.

### 3.0 2006 VERNAL POOL SURVEYS

### 3.1 General Protocol

The spring 2006 field survey effort for potential vernal pools will begin in May of 2006. This will involve the following tasks:

- Review the gathered data identifying potential vernal pools;
- Conduct site-specific training for biologists including an overview of field data collection methods and data management/organization;
- Conduct wood frog and/or salamander egg mass surveys, as appropriate, within the Project Area;
- Search for the presence of fairy shrimp and state-listed threatened and endangered species;
- Verify if potential candidate areas function as vernal pools;
- Verify if any vernal pools are significant as defined by the MDEP;
- Compile data and prepare a final report.

#### 3.2 Vernal Pool Field Surveys

#### 3.2.1 General Approach

Field surveys will be conducted by teams of two biologists familiar with vernal pool resources of New England. Each team will be responsible for keeping track of wood frog chorusing and will schedule field surveys to coincide with the end of the peak breeding season. The field teams will walk the proposed Project Area, search for and assess new vernal pools as well as the potential pools preliminarily identified from existing information. Multiple visits to a given pool would only be conducted in the following situations:

- The first visit is conducted outside the recommended egg mass identification period as described in Section 1.2;
- The first visit is conducted within the recommended identification period and yields none or very few egg masses in a pool that, based upon physical characteristics, should support an abundance of egg masses.

In these situations, pools will be revisited by May 31 of the same year or identified as pools for which future visits recommended are recommended.

Field crews will typically be equipped with the following items (this may vary depending on site specific conditions):

- Hip or chest waders;
- Polarized sunglasses;
- Binoculars;
- View tube/bucket;
- GPS unit;
- Dipnet for fairy shrimp sampling;
- Small clear plastic storage bin (used for temporarily holding animals for identification purposes);
- Digital camera;
- Thermometer; and
- Vernal pool determination data forms (Appendix A).

For the segments of proposed Project Area that will be sited next to an existing Central Maine Power (CMP) transmission line, vernal pool crews will search for and assess pools within an approximately 125-foot-wide corridor south of the CMP right-of-way (ROW). For the remaining portion of the proposed transmission line and access roads, crews will search for and assess pools within a 300-foot-wide corridor (generally 150 feet on either side of a flagged centerline). For the proposed turbine locations, crews will examine all areas within the general vicinity with little or no slope. Surveys of potential vernal pools located outside of the 125- and 300-foot corridors will be limited to visual and auditory observations conducted from the edge of the study corridors. These observations will be used to determine if areas preliminarily identified as potential vernal pools contain water and appear to have other physical characteristics typically associated with vernal pools. If an area lacks water and other known vernal pool characteristics, it will be removed from the potential vernal pool table. Sampling data forms will be completed for these areas as well.

Photographs will be taken of all vernal pools (within the proposed Project Area study corridors) and all potential vernal pools (outside of the Project Area study corridors). All information will be recorded on a standardized sampling data form.

Within the Project Area study corridors, once it has been determined that an area is functioning as a vernal pool, further assessment will be conducted to determine if it is significant (per Chapter 335). This further assessment will include amphibian egg mass sampling, fairy shrimp sampling, and rare indicator species observations. Vernal pools will be placed into one of three categories: (1) Verified Vernal Pool; (2) Verified Significant Vernal Pool; and (3) Indeterminate<sup>3</sup>.

## 3.2.2 Wood Frog Chorusing Survey

This survey will be conducted in conjunction with the overall vernal pool assessment effort. This survey will help biologists focus on potential vernal pools both within and outside the Project Area study corridors. The wood frog chorusing survey will consist of field crews walking within the Project Area study corridor, while conducting other field survey efforts, and recording information about chorusing wood frogs.

### 3.2.3 Amphibian Egg Mass Sampling

Egg mass surveys will be conducted during the day when the sun is out (9 am - 3 pm) to the extent that it is possible. Polarized glasses will be used to minimize sun glare and to aid in detection of egg masses. Two field biologists will conduct the sample effort at each potential pool. Both biologists will start at one end of the pool and thoroughly search the entire pool together as they wade along the margin. The entire pool will be searched (including the center) to ensure that all egg masses are counted (Crouch and Paton 2000). To reduce the possibility of overlooking or misidentifying egg masses, the two biologists will work together to observe, identify, and count egg masses. When agreement is reached regarding the number and types of egg masses within an individual pool, the field crew will complete a data form, take photographs

<sup>&</sup>lt;sup>3</sup> This will include any potential pools that could not be assessed during the identification period for egg masses and for which additional observations are recommended.

as appropriate, and continue walking down the Project Area corridor until another potential vernal pool is encountered.

Acknowledging the potential for disturbing breeding amphibians and egg masses during wading surveys in vernal pools, observers will only enter and stay within the pools long enough to collect the necessary data for verification. Observers will exercise caution while surveying the pools making efforts not to dislodge egg masses from attachment sites.

#### 3.2.4 Fairy Shrimp Sampling

As with the egg mass surveys, surveys to document the presence/absence of fairy shrimp will be conducted during the day when the sun is out (9 am - 3 pm) whenever possible. When it is darker, it is harder to see into vernal pools, particularly those that are stained by tannic acid from decaying leaves. Field crews will use dipnets (and possibly the plastic storage bins), view tubes, and general observation to search for fairy shrimp. If possible, sampling efforts may be focused on sunny patches in the pool, as fairy shrimp often congregate in these areas. Fairy shrimp surveys will be conducted jointly with the egg mass surveys.

#### 3.2.5 Decontamination Procedures

TransCanada will implement decontamination procedures for all field crews conducting vernal pool surveys. The primary disease organism of concern is a fungus, *Batrachochytrium dendrobatidis*. Between pools and at the end of each day, crews will spray down waders, boots, and nets with a 3 percent solution of bleach in water. The fungus (*B. dendrobatidis*) has been shown to be easily killed by bleach.

#### 4.0 **REFERENCES**

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# Appendix A

Vernal Pool Sampling Data Form

****SECTION A -	GENERAL INFORMATION****	
SECTION A -	GENERAL INFORMATION	

Wetland ID:	Mile	epost:	Facility:		
Date:	Tim	e of Observation:	V	/isit #:	
Observers:					
Weather Conditions:	Sunny	Partly Sunn	y 🛛 Overca	st 🛛 Raining	□ Snowing
Photos Taken? 🛛 Yes	🗖 No	Photo Info:			
Pool Dimensions (feet):	Maximum ler	ngth	Maximum width		
Water Depth (inches):	Maximum wh Estimated spr				
<b>Type of Wetland:</b> (classif)		in tallest class that	rub  a marsh t covers 30% or more c	• open water of the pool)	
	****S]	ECTION B – VEF	RNAL POOL SETTIN	<b>\G</b> ****	
u wetland comp	lex (pool assoc	rt of a larger wetla ciated with a larger irt of a river or lake	wetland habitat)		
Habitat Around the Poo (Estimate % of each		of the pool, exclud	ing cover directly over	pool. Estimates show	uld total 100%)
<u>%</u> Woodland (chec hardwood (>7 Softwood (>7 mixed (all oth	5% deciduous) 5% coniferous)	)	□ heavy (>50% ca □ moderate (25-50	<b>bitat, is the overstory</b> anopy cover of trees a b% canopy cover of tr anopy cover of trees/s	nd shrubs >6' tall) ees/shrubs >6' tall)
<ul> <li><u>Utility ROW</u> (check most dominant type)</li> <li>Pipeline</li> <li>Electric</li> <li>Other</li> </ul>			For Utility ROW, ☐ shrubs ☐ grass/forb ☐ mixed - shrub/gr ☐ bare ground	<b>identify dominant v</b> rass/forb	egetation type
<ul> <li><u>%</u> Open Land (check most dominant type)</li> <li>□ active agriculture</li> <li>□ fields/pastures</li> <li>□ lawn</li> <li>□ other</li> </ul>					
<u>%</u> Residential					
<u> </u>					
<u> </u>					
Comments:					

Level of Existing Disturbance to Pool: Level of Disturbance: Ty	
	ype of Disturbance (check dominant type):
🗖 high	logging
🗆 medium 🗆	utility ROW
	development
	garbage/trash
	brush
	ditches
	ATV
Level of Existing Disturbance to Surrounding Habitat:	
Level of disturbance: T	ype of Disturbance (check dominant type):
□ high	logging
	utility ROW
	development
	garbage/trash
	brush
	ditches
	ATV

#### **SECTION B – VERNAL POOL SETTING (continued)**

**Pool Location:** (Provide a sketch of the vernal pool together with any local reference points or features).

**Comments**:

#### \*\*\*\*SECTION C - VERNAL POOL BIOLOGICAL DATA\*\*\*\*

Deminant Cover on P Dominant Cover with.	nny Pa	artly Sunny 34 full und egg masses, 3- vol at +/- 5% ** no ches/twigs) n ( <i>cattails</i> , <i>grasses</i> , ( <i>water lily</i> , <i>duckwe</i> ion ( <i>vegetation sul</i>	Time of O Overcas Overcas	□ ¼ full y surface) be > 100%**)	☐ Snowing
ather Conditions: Su Su Sublement of the set of the s	nny Pa	artly Sunny 34 full und egg masses, 3- vol at +/- 5% ** no ches/twigs) n ( <i>cattails</i> , <i>grasses</i> , ( <i>water lily</i> , <i>duckwe</i> ion ( <i>vegetation sul</i>	Overcas	at     a     Raining       a     1/4 full       a     1/4 full       b     b       b     b       b     a       b     a       b     b       b     a       b     a       b     b       b     a       b <t< th=""><th>☐ Snowing</th></t<>	☐ Snowing
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<u><u> </u></u>	es within the Poo	ol:			
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(estimate % cover with					
(estimate % cover with	ool Bottom:				
		5% - note the total	l can be > 100%	2%)	
0/ 100					
<u>%</u> lea					
<u>%</u> mo					
	posed soil/mud				
	eks/boulders				
<u>%</u> oth	ier				
Egg Attachment Sites	:				
(rate from most used si	tes to the least use				
Live woody by	ranches	dead wood	gr	asses/sedges	ot
omments:					

#### **SECTION C – VERNAL POOL BIOLOGICAL DATA (continued)**

<b>INDICATOR SPECIES STATUS</b> ( <i>Record the estimated number of each of place a check mark in box where present</i> )							
Species	Adult	Vocalization	Amplexus	Spermatophores	Egg masses	Tad/larvae	Juvenile
wood frog							
spotted							
salamander							
blue-spotted							
salamander							
fairy shrimp							

US (Decoud the estimated number of each of place a check 1. :-- h an CIES STA 1

#### **INDICATOR SPECIES VERIFICATION** (check all boxes that apply)

Species	Heard or seen	Identified in hand	Photographed
wood frog			
spotted salamander			
blue-spotted salamander			
fairy shrimp			

FACULTATIVE SPECIES STATUS (record the estimated number of each or place a check mark in box where present)

Species	Adult	Vocalization	Amplexus	Spermatophores	Egg masses	Tad/larvae	Juvenile
Spring Peepers							
Gray Tree Frogs							
Green Frog							
American Toad							
Four-Toed Salamander							
Red-Spotted Newts							
Spotted Turtle							
Painted Turtle							
Snapping Turtle							
Wood Turtle							
Blanding's turtle							
Ribbon Snake							
Water Scorpion							
Predaceous Diving Beetle							
Fingernail clam							
Amphibious snail							
Whirlgig Beetle							
Dobsonfly							
Caddisfly							
Dragonfly							
Damselfly							
Leeches							

Comments:

Does this pool qualify as a "significant wildlife habitat" under draft revisions of the MDEP Chapter 335? **YES** Does this pool meet the vernal pool definition in the ACOE Programmatic General Permit for the State of Maine? **U** YES **D** NO

**APPENDIX B** 

# **Completed Data Forms for Verified Vernal Pools**

Wetland ID: AO(0-1P25	Milepost:	Facility: K	oby stagingon	len.
Date: 5-11-06	Time of Observation: _	/030 Visit	#:	
Observers: ME DO	56 55			n and a state of a state of a state
Weather Conditions:	nny 🖸 Partly Sunny	Overcast	🖬 Raining	Snowing
Photos Taken? 🖄 Yes 🗆 No		7	·	;
Pool Dimensions (feet): Maxir	num length See cerial	Maximum width		· . ·
Water Depth (inches): Maxir Estim	num when observed	242		
Type of Wetland: (classify by veg	☐ forested A shru getation in tallest class that a	ab 🛛 marsh covers 30% or more of the	open water pool)	
<u></u>	****SECTION B - VER	NAL POOL SETTING*	ie sie vie	
Site Type:	· · · · · · · · · · · · · · · · · · ·			
upland-isolated (pool	l not part of a larger wetland ol associated with a larger w	d) wetland habitat)		
bottomland-isolated (	pool part of a river or lake	floodplain)		
			· · · · · · · · · · · · · · · · · · ·	
(Estimate % of each within ↓ 	dominant type) 🦻	For woodland habitat Faheavy (>50% canop I moderate (25-50% c	is the overstory? y cover of trees and sl anopy cover of trees/s	1rubs >6' ta hrubs >6' t
<u>↓00 %</u> Woodland (check most	dominant type) 🔊 iduous) iferous)	For woodland habitat A heavy (>50% canop	is the overstory? y cover of trees and sl anopy cover of trees/s y cover of trees/shrub tify dominant vegeta	nrubs >6' ta hrubs >6' t s >6' tall)
<ul> <li><u>↓ 00 %</u> Woodland (check most</li> <li>□ hardwood (&gt;75% dec</li> <li>↓ softwood (&gt;75% coni</li> <li>□ mixed (all others)</li> <li><u>6 %</u> Utility ROW (check most</li> <li>□ Pipeline</li> <li>□ Electric</li> <li>□ Other</li> <li><u>6 %</u> Open Land (check most</li> </ul>	dominant type) 🔊 Siduous) iferous) ost dominant type) 🗲	For woodland habitat A heavy (>50% canop moderate (25-50% c sparse (<25 % canop For Utility ROW, iden shrubs grass/forb mixed - shrub/grass/	is the overstory? y cover of trees and sl anopy cover of trees/s y cover of trees/shrub tify dominant vegeta	nrubs >6' ta hrubs >6' ta s >6' tall)
<ul> <li><u>↓ № %</u> Woodland (check most</li> <li>□ hardwood (&gt;75% dec</li> <li>▶ softwood (&gt;75% coni</li> <li>□ mixed (all others)</li> <li><u>6 %</u> Utility ROW (check mod</li> <li>□ Pipeline</li> <li>□ Electric</li> <li>□ Other</li> </ul>	dominant type) 🔊 Siduous) iferous) ost dominant type) 🗲	For woodland habitat A heavy (>50% canop moderate (25-50% c sparse (<25 % canop For Utility ROW, iden shrubs grass/forb mixed - shrub/grass/	is the overstory? y cover of trees and sl anopy cover of trees/s y cover of trees/shrub tify dominant vegeta	nrubs >6' ta hrubs >6' t s >6' tall)
↓ № %       Woodland (check most         □       hardwood (>75% dec         ▶ softwood (>75% coni         □       mixed (all others)         6       %         Utility ROW (check mod         □       Pipeline         □       Electric         □       Other         6       %         0       ther         1       eactive agriculture         □       fields/pastures         □       lawn	dominant type) 🔊 Siduous) iferous) ost dominant type) 🗲	For woodland habitat A heavy (>50% canop moderate (25-50% c sparse (<25 % canop For Utility ROW, iden shrubs grass/forb mixed - shrub/grass/	is the overstory? y cover of trees and sl anopy cover of trees/s y cover of trees/shrub tify dominant vegeta	nrubs >6' ta hrubs >6' t s >6' tall)
↓ № %       Woodland (check most         □       hardwood (>75% dec         ▶ softwood (>75% coni         □       mixed (all others)         6       %         Utility ROW (check mod         □       Pipeline         □       Electric         □       Other         6       %         0       by Open Land (check most         □       active agriculture         □       fields/pastures         □       lawn         □       other	dominant type) 🔊 Siduous) iferous) ost dominant type) 🗲	For woodland habitat A heavy (>50% canop moderate (25-50% c sparse (<25 % canop For Utility ROW, iden shrubs grass/forb mixed - shrub/grass/	is the overstory? y cover of trees and sl anopy cover of trees/s y cover of trees/shrub tify dominant vegeta	nrubs >6' ta hrubs >6' ta s >6' tall) ntion type
↓ № %       Woodland (check most         □       hardwood (>75% dec         ▶ softwood (>75% coni         □       mixed (all others)         6       %         Utility ROW (check mod         □       Pipeline         □       Electric         □       Other         6       %         0       ther         1       eactive agriculture         □       fields/pastures         □       lawn	dominant type) 🔊 Siduous) iferous) ost dominant type) 🗲	For woodland habitat A heavy (>50% canop moderate (25-50% c sparse (<25 % canop For Utility ROW, iden shrubs grass/forb mixed - shrub/grass/	is the overstory? y cover of trees and sl anopy cover of trees/s y cover of trees/shrub tify dominant vegeta	nrubs >6' ta hrubs >6' t s >6' tall)
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	dominant type) 🔊 Siduous) iferous) ost dominant type) 🗲	For woodland habitat A heavy (>50% canop moderate (25-50% c sparse (<25 % canop For Utility ROW, iden shrubs grass/forb mixed - shrub/grass/	is the overstory? y cover of trees and sl anopy cover of trees/s y cover of trees/shrub tify dominant vegeta	nrubs >6' ta hrubs >6' t s >6' tall)
	dominant type) 🔊 Siduous) iferous) ost dominant type) 🗲	For woodland habitat A heavy (>50% canop moderate (25-50% c sparse (<25 % canop For Utility ROW, iden shrubs grass/forb mixed - shrub/grass/	is the overstory? y cover of trees and sl anopy cover of trees/s y cover of trees/shrub tify dominant vegeta	nrubs >6' ta hrubs >6' ta s >6' tall) ntion type
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Level of	z Disturbance to Pool: P Disturbance: high medium low Y none		🗖 lagging	nce (check dominant type):
Level of	Disturbance to Surrou disturbance: □ high □ medium □ low Ø none	nding Habitat:	Type of Disturbar logging utility ROW development garbage/trash brush ditches ATV	nce (check dominant type):
Pool Location:	(Provide a sketch of the v	vernal pool togethe	r with any local refe	rence points or features).
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			• •	

#### 4/28/2006 .

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General Information	<i></i>			5-11-06	
		far in affrection of a state of the state of			<i>.</i>
<b>,</b> •				<u> </u>	
Veather Conditions	: 🛛 Sunny	Partly Sunny	Overcast	Araining and the second	
	ار ر.				~~~··
ool Characteristics	:			:	
Water level:	: 🗆 fu	11 A. 3. full	🗅 ½ full	🖵 ¼ fuli	$\Box < \frac{1}{4}$ or dry
Water temp	erature: <u> </u>	F (around egg mass	es, 3-5 inches below s	urface)	
Dlant Cover		· · · ·			
(est	imate % cover with	in the pool at +/- 5% <sup>•</sup>	** note the total can b	e > 100%**)	
•.	Ó % trees				
 · · ·	10 % shrubs				
· · · · · · · · · · · · · · · · · · ·	🙆 % woody debi	ris (branches/twigs)			
· · · · · · · · · · · · · · · · · · ·	,				
<u> </u>					· .
			n submerged at egg-la	aying)	
. ———	<u>%</u> other UPL	M WAYER			
Dominant P	lant Species withir		1 1		
Trees	Marine Contraction	Shrubs Leathe	<u>Allef</u>	Herbaceous	<u>Caces</u>
:					
Dominant (	aver on Paal Bott	·			
			total can be > 100%)	)	
-	- 0% (aguac				
· · · · · · · · · · · · ·			·		
11		l/mud			
	∽ <u>%</u> other				
Egg Áttachr	nent Sites:		and word)	. •	
Egg Attacut	ost used sites to the	loast wood often I m w			
	Wetland I.D. AQ4 Diservers: 44 Weather Conditions Pool Characteristics Water level Water temp Plant Cover (est Dominant P Trees Dominant C	Wetland I.D.       A06 - UP25         Dbservers:       HL       DD         Weather Conditions:       Sunny         Pool Characteristics:         Water level:       In         Water temperature:       %         Plant Cover:       %         (estimate % cover with        % trees        % trees <t< td=""><td>Wetland I.D. <math>A06 - VP25</math>       Visit #:         Dbservers:       <math>44</math> <math>DD</math> <math>T6</math>         Weather Conditions:       <math>\Box</math> Sunny       <math>\Box</math> Partly Sunny         Pool Characteristics:         Water level:       <math>\Box</math> full       <math>434</math> full         Water temperature:       <math>GF</math> (around egg massed         Plant Cover:       (estimate % cover within the pool at +/- 5% *         <math>O</math> <math>\%</math> trees         <math>10</math> <math>\%</math> shrubs         <math>M</math> <math>\%</math> woody debris (branches/twigs)         <math>10</math> <math>\%</math> shrubs         <math>M</math> <math>\%</math> floating vegetation (water like, dwill)         <math>M</math> <math>\%</math> submergent vegetation (vegetation)         <math>M</math> other       <math>OPEN</math> <math>M</math> other       <math>OPEN</math></td></t<> <td>Wetland I.D.       <math>A06 - VP 25</math>       Visit #:       Data         Dbservers:       <math>44</math> <math>DD</math> <math>TG</math> <math>S^{2}</math>       Time of Observers:         Weather Conditions:       <math>\Box</math> Sunny       <math>\Box</math> Partly Sunny       <math>\Box</math> Overcast         Pool Characteristics:       <math>\Box</math> <math>\Box</math> <math>\Box</math> <math>\Box</math> <math>\Box</math>         Water level:       <math>\Box</math>       full       <math>\Box</math> <math>\Box</math> <math>\Box</math> <math>\Box</math>         Water temperature:       <math>\Box</math> <math>\Box</math> <math>\Box</math></td> <td>Wethand I.D. <math>AOb - UP25</math>       Visit #:      </td>	Wetland I.D. $A06 - VP25$ Visit #:         Dbservers: $44$ $DD$ $T6$ Weather Conditions: $\Box$ Sunny $\Box$ Partly Sunny         Pool Characteristics:         Water level: $\Box$ full $434$ full         Water temperature: $GF$ (around egg massed         Plant Cover:       (estimate % cover within the pool at +/- 5% * $O$ $\%$ trees $10$ $\%$ shrubs $M$ $\%$ woody debris (branches/twigs) $10$ $\%$ shrubs $M$ $\%$ floating vegetation (water like, dwill) $M$ $\%$ submergent vegetation (vegetation) $M$ other $OPEN$	Wetland I.D. $A06 - VP 25$ Visit #:       Data         Dbservers: $44$ $DD$ $TG$ $S^{2}$ Time of Observers:         Weather Conditions: $\Box$ Sunny $\Box$ Partly Sunny $\Box$ Overcast         Pool Characteristics: $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ Water level: $\Box$ full $\Box$ $\Box$ $\Box$ $\Box$ Water temperature: $\Box$ $\Box$	Wethand I.D. $AOb - UP25$ Visit #:

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#### SECTION C - VERNAL POOL BIOLOGICAL DATA (continued)

#### INDICATOR SPECIES STATUS (Record the estimated number of each of place a check mark in box where present)

Species		Adult	Vocalization	Amplexus	Spermatophores	Egg masses	: Tad/larvae	Juvenile
wood frog						600+		
spotted								·
salamander	- V	-				70+		
blue-spotted	•.				-		1	
salamander	:	· · ·		•		Z		} .
fairy shrimp								· ·

#### INDICATOR SPECIES VERIFICATION (check all boxes that apply)

Species	s Heard or seen		Photographed		
wood frog					
spotted salamander					
blue-spotted salamander	· · ·		· · · · · · · · · · · · · · · · · · ·		
fairy shrimp	<u>.</u>				

FACULTATIVE SPECIES STATUS (record the estimated number of each or place a check mark in box where present)

Species	Adult	Vocalization	Amplexus	Spermatophores	Egg masses	Tad/larvae	Juvenile
Spring Peepers		$\checkmark$			· ·	· .	
Gray Tree Frogs						4	
Green Frog						r <u>.</u>	-
American Toad					· · · ·		
Four-Toed Salamander							
Red-Spotted Newts ::			· ·				10
Spotted Turtle			··· · · · · · · · · · · · · · · · · ·			ja - traing	₩ ¥ 2¥
Painted Turtle	• • • • • • • • • • • • • • • • • • •			· · · · ·	,		·····
Snapping Turtle				-			· · · ·
Wood Turtle			-				
Blanding's turtle				·		······	,
Ribbon Snake						-	
Water Scorpion		· ·			· · · · · · · · · · · · · · · · · · ·		
Predaceous Diving Beetle							· · · · · · · · · · · · · · · · · · ·
Fingernail clam							
Amphibious snail						· 12	
Whirlgig Beetle						<u></u>	
Dobsonfly							
Caddisfly		-		•			
Dragonfly							
Damselfly							,
Leeches	1				.		

Comments: WC

ts recorded by GRS. 3.353

Does this pool qualify as a "significant wildlife habitat" under draft revisions of the MDEP Chapter 335? ŽI YES □ NO Does this pool meet the vernal pool definition in the ACOE Programmatic General Permit for the State of Maine? YES D NO

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		ION A - GENE	RAL INF	'ORMATION**	**	
Wetland ID: Bolo - VP	S Milepos	t:		Facility:	ibby	
Date: 5.15.06	_ Time of	Observation: _	1115	_ Visit #		
Observers: ML	DD 05 2	25			·	
Weather Conditions:	Sunny	D Partly Sunny		Overcast	C Raining	Snowing
Photos Taken? 🏼 🎘 Yes	🗆 No	Photo Info: <u> </u> -	-NE	· .		
Pool Dimensions (feet):				um width5	·	
Water Depth (inches):	Maximum when c Estimated spring a	bserved maximum	6" 10"		_	
Type of Wetland: (classif)	$\Box$ forestored by vegetation in table 2.	ed 🗖 shru	ıb	or more of the	open water <i>pool</i> )	· ·
	****SECT	TION B – VERN	NAL POO	L SETTING**		
🛛 wetland comp	d (pool not part of lex (pool associate olated (pool part oj	d with a larger v	wetland ho			
Habitat Around the Poo (Estimate % of each % Woodland (chec hardwood (>7 softwood (>7 mixed (all oth	within 100 feet of the k most dominant ty 5% deciduous) 5% coniferous)		For woo	odland habitat, i (>50% canopy rate (25-50% car	Estimates should is the overstory? cover of trees and topy cover of trees/shr	shrubs >6' tall) s/shrubs >6' tall)
<ul> <li>✓ Willity ROW (ch</li> <li>□ Pipeline</li> <li>□ Electric</li> <li>□ Other</li> </ul>	ieck most dominan	t type) ,* →	🗆 shrub 🖵 grass	s /forb 1 - shrub/grass/fo	ify dominant veg orb	etation type
Open Land (che     active agricult     fields/pastures     lawn     other	ure	t type)		giounu	,	
0 % Residential						
% Roads						
70 % Other Cutor	Кл					
Comments:						
· · · · · · · · · · · · · · · · · · ·						
4/28/2006		1				

# Kibby Wind Power Project

SECTION B - VERNA	L POOL SETTING (continued)
Level of Existing Disturbance to Pool: Level of Disturbance: high medium low none	Type of Disturbance (check dominant type): ☐ logging ☐ utility ROW ☐ development ☐ garbage/trash ☐ brush ☐ brush ☐ ATV
Laval of Existing Disturbance to Surrounding Habita	4.
Level of Existing Disturbance to Surrounding Habitan Level of disturbance: high medium low none	<ul> <li>Type of Disturbance (check dominant type):</li> <li>☑ logging</li> <li>□ utility ROW</li> <li>□ development</li> <li>□ garbage/trash</li> <li>□ brush</li> <li>□ ditches</li> <li>☑ ATV ~ KON?</li> </ul>
<b><u>Pool Location:</u></b> (Provide a sketch of the vernal pool tog	ether-with any local reference points or features).
Ligging Road	NG Wally In Finus Journ prol From prol Journal Journal Journal Journal Journal Journal
<u>Comments</u> :	

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### \*\*\*\*SECTION C - VERNAL POOL BIOLOGICAL DATA\*\*\*\*

oservers: ML	DDJG SC	5	Time of Obse	rvation: <u>115</u>	_
eather Conditions:	🗆 Sunny 🗖	Partly Sunny	Overcast	C Raining	Snowing
ol Characteristics:				· · · ·	
Water level:	🗖 full	🖬 ¾ full	🗖 ½ full	🗖 🧏 full	$\Box$ < $\frac{1}{4}$ or dry
Water temperatu	ıre: <u>°F (</u> aı	ound egg masses, 3	3-5 inches below sur	face)	
Plant Cover: (estimate	% cover within the	pool at +/- 5% ** n	ote the total can be	> 100%**)	
	<u>%</u> trees				
	<u>%</u> shrubs	1 4 3 3			
	<u>%</u> woody debris (bra <u>%</u> emergent vegetati	- /	s sedoes rushes)		
	<u>%</u> floating vegetation				
	% submergent veget			ing)	
	% other				
				n an	
Dominant Plant S Trees	Species within the P	'ool: rubs		Herbaceous	and the second straight Sec
11005		1405	<del>v </del>	Thereactous	
н на селото на селото На селото на	· -				
D	DUD				
<b>Dominant Cover</b> (estimate % cover	<i>within the pool at +</i> ,	/- 5% - note the tot	al can be > 100%)		
	<u>%</u> leaves				
	<u>%</u> moss				
	<u>%</u> exposed soil/mud				
<u> </u>	<u>%</u> rocks/boulders				
	<u>%</u> other				
Egg Attachment					
	ed sites to the least ı				other
(rate from most us		100			
	dy branches	dead wood	grasse	es/sedges	other

#### SECTION C -- VERNAL POOL BIOLOGICAL DATA (continued)

Species	Adult	Vocalization	Amplexus	Spermatophores	Egg masses	Tad/larvae	Juvenile
wood frog				· · · · · · · · · · · · · · · · · · ·	25	1	
spotted					12		
salamander					10		
blue-spotted			1				
salamander			1				
fairy shrimp							

#### **INDICATOR SPECIES VERIFICATION** (check all boxes that apply)

Species	Heard or seen	Identified in hand	Photographed
wood frog			
spotted salamander			
blue-spotted salamander			
fairy shrimp			

#### FACULTATIVE SPECIES STATUS (record the estimated number of each or place a check mark in box where present)

Species	Adult	Vocalization	Amplexus	Spermatophores	Egg masses	Tad/larvae	Juvenile
Spring Peepers							
Gray Tree Frogs	ł, ,						
Green Frog	V						
American Toad			x				
Four-Toed Salamander							
Red-Spotted Newts					1	la de la companya de	an a
Spotted Turtle							
Painted Turtle							
Snapping Turtle		5 C	:			ter al la companya de	
Wood Turtle							
Blanding's turtle							
Ribbon Snake							
Water Scorpion							
Predaceous Diving Beetle			· · · · ·				
Fingernail clam							
Amphibious snail							,
Whirlgig Beetle							
Dobsonfly							
Caddisfly						{	
Dragonfly							
Damselfly							
Leeches							

<u>Comments</u>:

 Does this pool qualify as a "significant wildlife habitat" under draft revisions of the MDEP Chapter 335?

 □ YES
 Ø NO

 Does this pool meet the vernal pool definition in the ACOE Programmatic General Permit for the State of Maine?

 Ø YES
 □ NO

****SECTION A - GENER	AL INFORMATION****
Wetland ID: AOG - UP32 Milepost:	Facility: <u>KIbby</u>
Date: 5.17.06 Time of Observation: /	250 Visit #:
Observers: MLSS	
Weather Conditions:  Sunny Partly Sunny	Overcast A Raining Snowing
• • •	-NW Z-SE
Pool Dimensions (feet): Maximum length 80	Maximum width 30
Water Depth (inches): Maximum when observed Estimated spring maximum	<u>12"</u> <u>14"</u>
Type of Wetland: Differented Surub (classify by vegetation in tallest class that co	
****SECTION B - VERN	AL POOL SETTING****
Site Type:, Site Type:, Dupland-isolated (pool not part of a larger wetland)	
wetland complex (pool associated with a larger w.	etland habitat)
bottomland-isolated (pool part of a river or lake fl	oodplain)
Habitat Around the Pool: (Estimate % of each within 100 feet of the pool, excluding	g cover directly over pool. Estimates should total 100%)
\OO%_Woodland (check most dominant type)       →         □ hardwood (>75% deciduous)       →         ☑ softwood (>75% coniferous)       □         □ mixed (all others)       →	For woodland habitat, is the overstory? heavy (>50% canopy cover of trees and shrubs >6' tall) M-moderate (25-50% canopy cover of trees/shrubs >6' tall) sparse (<25 % canopy cover of trees/shrubs >6' tall)
<ul> <li>① % Utility ROW (check most dominant type) →</li> <li>□ Pipeline</li> <li>□ Electric</li> <li>□ Other</li> </ul>	For Utility ROW, identify dominant vegetation type   I shrubs  I grass/forb  mixed - shrub/grass/forb  bare ground
○       % Open Land (check most dominant type)         □       □ active agriculture         □       □ fields/pastures         □       □ lawn         □       other	
<u>0 %</u> Residential	
%_Roads	
<u> </u>	
Comments: 8 flags - 6125'd.	

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	Level of Existing Disturbance to Pool:		
	Level of Disturbance:	Type of Disturbance (check dominant type):	
	Q-high		
	low .	☐ development	
	🕅 none	□ garbage/trash	
		G brush G ditches	
	· · · · · · · · · · · · · · · · · · ·		
	Level of Existing Disturbance to Surrounding	σ Hahitat.	
•	Level of disturbance:	Type of Disturbance (check dominant type):	
	🖵 high		
	🖵 medium	🗅 utility ROW	
	D low	development	
	🕅 none	G garbage/trash	
		□ ditches □ ATV	
	<b>Pool Location:</b> (Provide a sketch of the verna	l pool together with any local reference points or features).	
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	Å		
,			14 A.
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	Est Wir mit egg mit	65 Sted	
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Marian Mining

## \*\*\*\*SECTION C -- VERNAL POOL BIOLOGICAL DATA\*\*\*\*

	eneral Information:		M & M & M & M & M & M & M & M & M & M &			
V	Vetland I.D. AOG	5-VP32	Visit #:			
c	bservers: <u>m</u> L	<u>. 95</u>	·····	Time of Obse	ervation: <u>12.54</u>	<u>)</u> (
V	Veather Conditions:	🖸 Sunny	C Partly Sunny	Overcast	🛛 Raining	Snowing
T	ool Characteristics:					.,
ſ		Maria	ull 🛛 ¾ full	🖸 ½ full	🛛 ¼ full	🖸 < ¼ or dry
	Water level:					
	Water tempe	erature: <u>45</u>	<u>F (around egg masses,</u>	3-5 inches below su	rface)	
	Plant Cover:	:				
	(esti	mate % cover wit	hin the pool at +/- 5% **	note the total can be	>100%**)	
		10 % trees				
	·	<u>5 %</u> shrubs				,
			bris (branches/twigs)			
			vegetation (cattails, grass			
			egetation ( <i>water lily, duck</i> nt vegetation ( <i>vegetation</i> )		ning)	
		<u>D %</u> submerge 20 <u>%</u> other	nt vegetation (vegetation 3	aomergea ai egg-iu	ying)	
	· •					
	Dominant P Trees ////	lant Species with	in the Pool: Shrubs <u>Abi. ba</u>	l.	Herbaceous (	arex soo
:		rub.		· .		lles-
	Bet.	cord.				
:						
	Dominant C (estimate %	Cover on Pool Bot cover within the p	ttom: 0001 at +/- 5% - note the te	tal can be > 100%)	ı	
		40 % leaves				
		2.0 % moss				
		<u>30 %</u> exposed s	soil/mud			
		15 % rocks/box	alders			
		<u>O %</u> other				
	Egg Attach	ment Sites:		-		
		ost used sites to the woody branches	the least used sites, $1 = mc$ s $\frac{1}{2}$ dead wood		sses/sedges	- other
·	Liv	e woody branches		gra:	3303/304503	

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#### SECTION C - VERNAL POOL BIOLOGICAL DATA (continued)

#### INDICATOR SPECIES STATUS (Record the estimated number of each of place a check mark in box where present)

_Species	Adult	Vocalization	Amplexus	-Spermatophares-	Egg-masses-	Tad/larvae	Juvenile	
wood frog				N. N.	15 **			
spotted								
salamander				\$.				
blue-spotted					ł			
salamander								
fairy shrimp								

#### **INDICATOR SPECIES VERIFICATION** (check all boxes that apply)

Species	Heard or seen	Identified in hand	Photographed
woed frog			
spotted salamander			
blue-spotted salamander			-, ·
fairy shrimp			

#### FACULTATIVE SPECIES STATUS (record the estimated number of each or place a check mark in box where present)

Species	Adult	Vocalization	Amplexus	Spermatophores	Egg masses	Tad/larvac	Juvenile
Spring Peepers							
Gray Tree Frogs							· .
Green Frog							
American Toad	Í						· · · ·
Four-Toed Salamander			<u> </u>				
Red-Spotted Newts						, ,	
Spotted Turtle					-		
Painted Turtle	· · · · · ·						· · · ·
Snapping Turtle							1.5
Wood Turtle	,					-	
Blanding's turtle							
Ribbon Snake							
Water Scorpion	]						2
Predaceous Diving Beetle		1					· , .
Fingernail clam							· · ·
Amphibious snail							
Whirlgig Beetle							
Dobsonfly						**	
Caddisfly							
Dragoafly							
Damselfly				6 - 1			
Leeches					•		

fairly recent egg masses Comments:

Does this pool qualify as a "significant wildlife habitat" under draft revisions of the MDEP Chapter 335?

Does this pool meet the vernal pool definition in the ACOE Programmatic General Permit for the State of Maine?

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