Drones for Coastal Monitoring
Rick Harbison, Planner and GIS Coordinator, GPCOG
Western, Ferry, and Pine Point Beaches
Scarborough, Maine

Overlap Report - What is this?
REQUEST FOR PROJECT EVALUATION
ESSENTIAL HABITATS OF ENDANGERED AND THREATENED SPECIES

INSTRUCTIONS:
1. Please type or print clearly. Incomplete or illegible forms will be returned.
2. The project applicant must complete, sign, and date Section A (see both sides).
3. An appropriate state agency or municipal representative must complete, sign, and date Section B (see reverse).
4. Send completed form and all required attachments to: ME Department of Inland Fisheries and Wildlife,
   146 Atkinson Road, Augusta, ME 04333.
5. For assistance, contact the appropriate MEIFW Regional Wildlife Biologist.

SECTION A (to be completed by project applicant or representative)

1. Name of project applicant:
   Mailing address: ____________________________
   Telephone: ____________________________

2. Name of property owner:
   Mailing address: ____________________________
   Telephone: ____________________________

3. Project location: Town: ____________________________
   Tax Map#: ____________________________
   Lot#: ____________________________
   Township: ____________________________
   County: ____________________________

4. Are permit(s) or license(s) required for this project? ______ Yes ______ No
   If Yes, please list: ____________________________

5. Attachments: Each of the following items must be sent in triplicate with this form:
   a. A copy of the final project application, permit, and/or license as recommended for approval.
   b. A map showing project boundaries (map required for all MEIFW and affected town office fees).

   Additional project documentation is generally not required but, if included, may enable a more rapid review by MEIFW.

6. Are any of the following activities associated with this project?
   a. Residential construction or repair of buildings? Yes ______ No ______
   b. Excavation, grading, or hauling of soil or fill? Yes ______ No ______
   c. Road or trail construction or maintenance? ______ Yes ______ No ______
   d. Agricultural activities? ______ Yes ______ No ______
   e. Construction or repair of ditches or culverts? ______ Yes ______ No ______
   f. Grazing or other supplementary forage use? ______ Yes ______ No ______
   g. Paving or other open-work construction? ______ Yes ______ No ______
   h. Tree and shrub planting or protection? ______ Yes ______ No ______
   i. Construction of new roads, trails, or other access? ______ Yes ______ No ______
   j. Modification of shorezone uplands? ______ Yes ______ No ______
   k. Modification of wetlands, open waters, summaried lands, dunes, islands, or uplands? ______ Yes ______ No ______

   *SEE REVERSE. APPLICANT MUST COMPLETE SECTION A*

Section B (to be completed by agency or municipal representative)

1. Name of agency/municipality:
   Mailing address: ____________________________
   Telephone: ____________________________
   Contact individual: ____________________________

2. This agency/municipality finds the project described herein meets our criteria for approval, but is partly or wholly within a designated Essential Habitat. I hereby request evaluation by MEIFW to determine if the project would significantly alter the Essential Habitat or violate protection guidelines adopted for the habitat.

   Signature: ____________________________
   Date: ____________________________

Section C (for use by MEIFW only)

Received by: ____________________________
Date: ____________________________
Region: ____________________________
Type: ____________________________

Piping Plover Considerations
Proposed farm site in Gorham
GPCOG/CCSWCD Drone Imagery
LAS Point Cloud
3D Modeling
3D Modeling

Old Barn in the Adirondaks
Gilsland Farm Audubon Center (photogrammetry)

Gilsland Farm Audubon Center (Digital Elevation Model)
Top: Bunganuc Bluffs, Casco Bay
Bottom: Chandler’s Cove, Casco Bay
LITCHI APP: Chandler’s Cove
Stone Pier, Chebeague Island
Time Series Images | Bridgton, Maine
Rip Current Science

so we can better forecast when and where they will form

NOAA Ocean Today, “Rip Current Science”
https://oceantoday.noaa.gov/rippcurrentscience/welcome.html
LiDAR | Image courtesy of Affiliated Researches: Environmental Research, Mapping & Technology
Miovision
Portland Area Comprehensive Transportation System (PACTS)
Images courtesy of Miovision and PACTS
# Back Cove Trail Intersection / Tukey's Bridge - Ped & Bike Junction

**Sat Oct 24, 2015**

**Full Length (5:30AM-9PM)**

All Classes (Pedestrians, Bicycles on Crosswalk)

All Movements

**ID:** 411421, **Location:** 43.678177, -70.25679

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<th>North Southbound</th>
<th>South Northbound</th>
<th>Northwest Southeastbound</th>
<th>Ped*</th>
<th>Int</th>
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**Total**

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<th>Ped*</th>
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<td>0</td>
<td>410</td>
<td>482</td>
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**% Approach**

| Pedestrians | - | - | - | - | - |
| Bicycles    | - | - | - | - | - |

**% Total**

| Pedestrians | 42 | 356 | 439 |
| Bicycles    | 40 | 54  | 43  |

**% Pedestrians**

| Pedestrians | 51.2% | 86.8% | 91.1% |
| Bicycles    | 48.8% | 13.2% | 8.9%  |

*Pedestrians and Bicycles on Crosswalk.*
Crescent Beach State Park, Cape Elizabeth
Image courtesy of Google Earth