

CONSULTANTS, LLC

Mr. Wes Sunderland, CEO Town of Baldwin 534 Pequawket Trail West Baldwin, ME 04091

#### Conditional Use Application: Nature's Wilderness Campground

#### **Existing Property**

On behalf of Mr. Scott Efron & Natures Wilderness, LLC, we are pleased to submit plans & materials in support of the Conditional Use Application (see Attachment 1) for the Nature's Wilderness Campground. The development parcel is several hundred acres in size and is shown as lot #22 on the Town of Baldwin Tax Map #7. It is located within the Rural Zoning District (R). The property is traversed by several existing roads. The site will be accessed off the Marstons Road and contains Upper Twain Road & a portion of Deacon Road. There is a 21 acre man-made pond (Lower Pond) located on the south side of Marstons Road that was created several decades ago with the installation of a dam in a stream channel. The area around the Lower Pond is zoned as Resource Protection (RP). No new development is proposed within 250' of the pond. Only structures and features permitted prior to March 2018 will be located within the Resource Protection Area. Upper Twain Road leads to a second, 2 acre man-made pond (Upper Pond) that is approximately a half-mile north Lower Pond. The property contained a house, several out buildings and an extensive system of trails prior to 2016.

#### **Proposed Project**

The applicant intends to open a campground on the portion of property that lies north of Marston's Road and west of Deacon Road. He proposes to develop the area between both ponds with a series of camp sites, a club house and a general store. There will be a mix of RV compatible sites, cabins, drive up tent sites & walk in tent sites. The campground will offer a wide variety of amenities to outdoor enthusiasts including swimming, fishing, hiking & mountain biking and use of miles of existing ATV trails. Our preliminary plans feature **190 camp sites**. Each of the campsites will have one parking space, fire pit & picnic table. The applicant has already cleared much of the proposed development area. No new development is proposed within 250' of Lower Pond due to the RP zone. Only structures and features that were permitted prior to the enacting of the RP Zone in March 2018 will be located within the Resource Protection Area. These include the swing sets at the beach, the permanent structures in the glamping area, guard house, entry gate, Marston's Roadway surface & associated utilities.

#### **Project Utilities**

The majority will be served by an electrical service that will be fed via underground electric lines. Group septic systems will be regionally located around the campground to service the sites. The large cabin sites are expected to have individual water and sewer connections, while the majority of the other sites will rely on regionally located bath houses and laundry houses. A dump station

will be centrally located to service clients with holding tanks. Jim Logan of Longview Partners evaluated test pits throughout the development area to ensure that the septic systems are located within suitable soils (see Attachment 5). He has provided HHE-200 forms for the systems (see Attachment 6).

The State of Maine Department of Health and Human Services (Department) requires that all sites have access to water carried sewage facilities. The Department stipulates that all water carried sewage effluent shall be disposed of by means of: a public system; or an approved sewage disposal system which is constructed and operated in conformance with applicable state and local laws, ordinances and regulations. Non-water carried sewage disposal facilities include pit privies, vault privies, chemical toilets, and composting toilets are only allowed if specifically permitted through the Department. By the State definition, the entirety of the campground will be serviced with conveniently located (within 500' of all camp sites) water carried sewage facilities. The Department defines sites without access to water or sanitary buildings as a primitive site. We believe that the density requirements of the Town Zoning Ordinances (5,000 SF per site vs. 20,000 SF per site) differentiate sites that have access to water carried sewer facilities vs. those that are classified as primitive sites. We have provided a basic site density exhibit for review (see Attachment 13)

#### Required State Permits & Project Consultants

This project will require a MDEP Site Location of Development Permit due to its scope. We've had a pair of onsite meetings with MDEP representatives and followed the latest meeting up with a scoping/pre-application meeting at the MDEP Portland Office. The project will also need a NRPA Wetland Alteration Permit.

The project will need a MDOT traffic movement permit. MDOT will evaluate the project impact to Route 113 and will require improvements if necessary. William Bray, P.E. of Traffic Solutions has prepared a traffic study. That study can be found in Attachment 7. The applicant has previously agreed to upgrade Marston's Road to the Town Road Standards from the intersection with Senator Black Road to the campground entrance.

The boundary information shown on the attached plans is based upon a boundary survey that was completed in 1996 and was recorded in the Cumberland County Registry of Deeds (see Attachment 12). Statewide Surveys, Inc. & Longview Partners, Inc combined to perform a wetland & stream delineation of the project area. Longview Partners performed a vernal pool assessment in the spring of 2018. A significant vernal pool was found on the backside of the lower pond that is located within the town Resource Protection District. Onsite topography of the developed area was provided by Statewide Surveys, Inc. Middle Branch Land Surveying provided an existing conditions plan of Marston's Road. The remaining topography was obtained from the State of Maine Office of GIS and is shown at a 2' contour interval.

Terradyn Consultants, LLC will assist the applicant with the local, state and federal permitting process.



#### **Campground Rules**

The campground will publish a series of rules & safety guidelines that its users will agree to adhere to. It will also operate under Department rules and regulations: Specific rules are discussed below:

- a. **Dates of Operation**: The campground will be open from May 1<sup>st</sup> through October 31<sup>st</sup>.
- b. **Hours of Entry**: The campground will generally open the gate each morning at 7 am and close the gate each evening at 8 pm.
- c. **Reservations & Rates**: The applicant has provided a sample rate sheet, see Attachment 9. Reservations will open February 1<sup>st</sup> of each year. Seasonal sites will need to reserve the site for the following year prior to the expiration of their rental term. After such time, the site will be offered via standard reservation on a first come, first serve basis.
- d. **Vehicular Access**: All campers will be given directions to the campground from both east & west of the campground access and will be directed to come down Senator Black Road via Marston's Road.
- e. **Emergency Preparedness**: Campground safety regulations are published by the American Camp Association (see <a href="www.acacamps.org">www.acacamps.org</a> for more information). The applicant is researching those guidelines and intends to enact them. Copies of the campground safety regulations will be provided once prepared. The Nature's Wilderness plan will —at a minimum-feature the following:
  - i. Campfires will be put out prior to bed time.
  - ii. Camp employees will be trained in emergency procedures including first aid and fire control procedures.
  - iii. All RV, Glamping and cabin sites will have water connections.
  - iv. The campground owns a functioning fire truck that will be available to respond to any fire related emergency.
  - v. A dry hydrant will be installed in the primary stormwater pond along the Marston's Road frontage. The connection will allow all area pumper trucks to connect to a large volume of water. As designed the stormwater/fire pond will contain more than 1,000,000 gallons of water.
- f. Number of sites: The park will not permit the placement of any R.V.'s or tents exceeding the number of sites approved by the Town of Baldwin & the State of Maine.
- g. **Primitive Recreation**: All hiking, biking & equestrian use will be limited to the campground property. Mounted maps will be posted at various points throughout the trail system and in the club house.



- h. ATV use: The applicant proposes to allow ATV use on his property. The property is approximately 300 acres and contains many existing trails. ATV's will be allowed to use the existing trail systems. The campground will display a series of maps located at various points along the trail system and will publish trail maps for the renters. Signs will be placed at the perimeter of the applicant's property signifying that ATV traffic must remain on the Nature's Wilderness Campground. ATVs will be prohibited from traveling along Marston's Road except at specified crossing locations. ATV use will be limited to the posted hours of entry. The campground reserves the right to impose additional restrictions on the ATV users.
- i. Right of entry and inspection: The Town of Baldwin Code Enforcement Officer (CEO) and any duly designated officer or employee of the State of Maine Department of Health and Human Services (Department) shall have the right, without an administrative inspection warrant, to enter upon and into the premises of the campground at any reasonable time in order to determine the state of compliance with this the permit and any rules in force pursuant thereto.
- j. **Register**: The proprietor shall keep and maintain or cause to be kept and maintained therein, a register of guests renting or occupying sites. The register may be a book or separate registration form or card. The register shall be signed by the person renting sites or by someone under their direction. The proprietor or their agent shall write opposite each name the number of sites assigned to and occupied by each guest, and the state and license number of any automobile then being used or operated by the registrant. The proprietor or their agent shall keep and preserve the record for 5 years showing the date of registration and duration of occupancy of each site. Said register shall be available to the CEO or any agent of the Department upon request.
- k. **Water analysis**: A copy of the current water analysis shall be at the park and in view of the public. A water sample shall be taken, tested and shown to be satisfactory before the campground opens for the season.
- I. Dump Station: A dump station will be provided consisting of at least a four inch (10 cm.) sewer riser pipe, connected to the R.V. sewage disposal system, surrounded at the inlet by a 3 foot by 3 foot concrete apron sloped to the drain, provided with a suitable hinged cover and/or screw cap; and a water outlet to permit periodic wash down of adjacent areas. This water outlet shall be protected with an anti-siphon backflow preventer. A sign shall be posted stating that the water from this outlet is not for drinking purposes.
- m. Garbage & Rubbish Disposal: Garbage and rubbish will be kept in durable insect proof containers that do not leak and do not absorb liquids. Plastic bags and wetstrength paper bags may be used to line these containers. All containers will be provided with tight-fitting lids. The campground will provide a sufficient number of containers to hold all of the garbage and rubbish which accumulates between periods of removal.



- n. **Swimming Pool**: The campground will contain a large swimming pool. It will be constructed and operated in accordance with all state rules applicable to swimming pools. A lifeguard will be stationed at the pool during operation.
- o. Park Amenities & Services Limited to Paying Guests: The park amenities, services & activities will be available only to campers & guests. The park is not open for use by the general public. The campground intends to offer a variety of amenities, services & activities including:
  - Swimming: A lifeguard will be on duty at the pool during operating hours.
     Swimming lessons will be offered to guests and taught by a certified instructor.
  - ii. **Archery**: an archery range may be established in a suitable location. If and when the range is open, a safety instructor will be on duty.
  - iii. **Canoes & Kayaks**: Canoes and Kayaks will be provided for free to campers and invited guests.

Note: ATV's will not be rented to the campers.

p. **Multi-purpose Building:** The multi-purpose building will function as a community center, general store & restaurant. It will be open to campers and invited guests between the hours of 8 am to 9 pm.

The campground intends to sell only basic necessities for campers including; hoses, food, milk, juice, marsh mallows, graham crackers, charcoal briquettes. The intent is not to sell large ticket items.

The restaurant will offer breakfast, lunch and dinner menus to campers and invited guests.

The building will also contain games, TV's and other "rainy day" activities.

q. **Primitive Sites Prohibited:** The Nature's Wilderness Campground will not contain any primitive sites.

#### Additional Information

The Planning Board requested information during the previous application process. That information is provided here for discussion purposes:

 Rental Cabins: The Town Attorney suggested that cabins may be a regular part of campground, but additional proof should be offered to verify that position. Many campgrounds across Maine offer cabin rentals. These include several owned and operated by the State of Maine. We performed a brief search for campground rental cabins and have included the results in Attachment 10. Cabins are included in numerous campgrounds across the state.



- 2. **Liquor License**: Members of the planning board recommended that the Nature's Wilderness Campground seek a liquor license under the stated assumption that it would reduce traffic on Town Roads. The applicant generally agrees with this idea and will pursue a liquor license through the proper channels.
- 3. **List of Recent Campgrounds:** The board requested a list of campgrounds that had been recently approved. The Department provided us with a list of all campgrounds that were approved in 2018. See Attachment 11.
- 4. **Subdivision Regulations**: The Town Attorney concluded that a campground does not need to adhere to subdivision regulations if it was only open for a portion of the year and all renters had equal access to renting all site. The campground will be open from May 1<sup>st</sup> to October 31<sup>st</sup> each year. Sites will generally be offered in a first come, first serve basis.
- 5. **No Additional Development**: The attached plans represent the extent of the proposed development. The applicant understands that the campground will be limited to the campsites, service buildings and uses specifically approved within the conditional use permit and the Maine DEP Site Location of Development Permit. Any additional expansion of structure, services or operation would need to first be approved by the Town of Baldwin & the State of Maine.

#### Conditional Use Information

This information is offered in support of the conditional use application.

#### **Section A: Basic Information**

#### 1: Applicant's Legal Name:

The applicant's name is Nature's Wilderness, LLC.

#### 2: Applicants Mailing Address:

Nature's Wilderness, LLC c/o Mr. Scott Efron 2 Upper Twain Road Baldwin, ME 04091

#### 3: Applicant's Phone Number:

Mr. Scott Efron can be reached at 207-787-6012

#### 4: Owner of Record:

Nature's Wilderness, LLC is the legal owner of the property. Mr. Scott Efron is the president of Nature's Wilderness, LLC. See Attachment 2 for a copy of the property deed.



#### 5: Right, Title or Interest:

Nature's Wilderness, LLC is the legal owner of the property per deed recorded in the Cumberland County Registry of Deeds in book 33066, page 317. See Attachment 2 for a copy of the property deed.

#### 6: Property Owner's Name:

Nature's Wilderness, LLC is the legal owner of the property. Mr. Scott Efron is the president of Nature's Wilderness, LLC. See Attachment 2 for a copy of the property deed.

#### 7: Owner of Record Address

Nature's Wilderness, LLC 17569 Middlebrook Way Boca Raton, FL 33496

#### 8: Location of Property:

The property is located at 2 Upper Twain Road.

#### 9: Tax Map & Lot Number:

The development is part of the property shown as Lot 22 on Tax Map 7.

#### 10: Zoning District:

The development is located in the Rural Zoning District. The area surrounding Marston's Pond is zoned Resource Protection.

#### 11: Conditional Use:

The applicant seeks to permit a campground use for the property. We believe that the entirety of the proposed operation meets falls beneath the use of a campground. However the following uses will be accessory to the campground and available only for registered campers and invited guests:

- a. Primitive Recreation
- b. Retail Business
- c. Service Business
- d. Community Building
- e. Eating & Drinking Places
- f. Neighborhood Store



#### 12: Required Items:

#### a. Location Map

A location map can be found in Attachment #3. A second location map is shown on the cover sheet of the attached plan set.

#### b. Written Description of the Proposed Use.

The applicant intends to open a campground on the property. He proposes to develop the area between both ponds with a series of camp sites, a club house and a general store. There will be a mix of RV compatible sites, cabins, tent sites & some upscale cabin sites. Our attached site plans feature 190 campsites.

#### c. Drawings of Proposed Activity

A plan set is attached that shows the proposed development. They show the location of existing & proposed buildings, structures, driveways, parking areas and natural features

#### **Section B: Standards for Conditional Use Permit:**

#### 1. The Planning board shall consider impact of:

#### 1a: Size of the proposed use compared to surrounding uses:

The campground is located on a large piece of property and is fairly isolated from other development. The proposed development area is approximately 300 acres and includes the area north of Marston's Road and west of Deacon Road. There are single family homes that front on the portion of Marstons Road that lies between Senator Black Road & the development. The single family lots located along Marstons Road appear to be between 5-10 acres. Other than the lots along Marstons Road, the property is surrounded by other large undeveloped properties. The ordinance requires that all campgrounds provide a 25' perimeter buffer. The proposed development is nowhere near an exterior property line.

1b: Intensity of the proposed use, including amount and type of traffic to be generated, hours of operation, expanse of pavement, and similar measures of intensity of use, compared with surrounding uses:

The campground will offer a variety of rental durations including daily, weekly, monthly & seasonal. The applicant intends to provide the necessary amenities & activities to allow the campers to remain onsite for the duration of their stay. Arrivals & departures do not typically coincide with the traditional heavy traffic times of the weekday A.M. & P.M. peak hour. The campground will serve recreational vehicles of all sizes as well as cars and trucks with & without pull behind campers. The applicants anticipate that the peak season will be from late spring to early fall. The campground will be open from May 1<sup>st</sup> through October 31<sup>st</sup> of any given year. Campers will be told that the entry gates will be open between 7 am & 9 pm every day.

The project will make use of the existing roads & trails to the maximum extent possible. Most of the access roads will be built over the existing trails. The area around the club house will



feature a large parking & maneuvering area to allow large vehicles to move safely & easily through the site. The expanded access roads, new access roads, parking lots & proposed buildings will create approximately 5 acres of new impervious areas. Each of the camp sites will have a stabilized grass parking area.

The applicant proposes to upgrade the portion of Marston's Road that lies between the intersection with Senator Black Road and Upper Twain Road.

We have submitted a traffic study and MDOT will review the impact to Route 113, at a minimum.

## 1c: The potential generation of noise, dust, odor, vibration, glare, smoke, litter and other nuisances:

Construction dust will be controlled as will the noise by controlling the hours of construction. Once completed, a campground is not a large generator of noise, dust, odor, vibration, glare, smoke or litter. Most of the campground development is located far from any exterior property line.

# 1d: Unusual physical characteristics of the site, including size of the lot, shape of the lot, topography, and soils, which may tend to aggravate adverse impacts upon surrounding properties:

The size of the property will help to control the impact to the surrounding properties. Most of the development is located far from any existing development.

## 1e: The degree to which landscaping, fencing, and other design elements have been incorporated to mitigate adverse impacts on surrounding properties:

The site will be able to maintain large undisturbed swaths of forest between the development & exterior property boundaries. All lighting will feature full cutoff fixtures to avoid excessive glare. There are no sites located around Marston's Pond due to the recent adoption of a resource protection district.

#### 2. The Planning board shall consider facilities:

#### 2a: The ability of traffic to safely move into and out of the site at the proposed location:

The applicant proposes to upgrade the portion of the road that lies between Senator Black Road & their property to allow for easy passage along the entire corridor. They have already upgraded the portion of the road that is located over their property. Upper Twain Road serves as the primary access between Lower & Upper Pond. It will be widened to support two direction traffic. Many of the camp site roads will designed to accommodate one way traffic. We have provided a large hammer-head turnaround behind the club house to allow large vehicles a convenient place to turn around.



Bill Bray, P.E. of Traffic Solutions, Inc. believes that this project will trigger a MDOT traffic movement permit due to the amount of expected traffic volume. His study can be found in Attachment 7.

## 2b: the presence of facilities to assure the safety of pedestrians passing by or through the site:

The site will be pedestrian friendly. The pedestrians will be camp site users in and around their camp sites and people using the club house. The club house features a large parking area featuring 60 standard sized spaces & good visibility. It has a walkway that leads to a large porch that is safely out of the way of vehicular traffic. The swimming pool & swimming pond are separated from vehicular traffic.

#### 2c: The capacity of the street network to accommodate the proposed use:

The existing street network will be upgraded to accommodate the proposed use. The internal circulation will be constructed to a level that allows for easy maneuvering & access throughout the site.

#### 2d: The capacity of the storm drainage system to accommodate the proposed use:

The project will require a MDEP Site Location of Development Permit. A large portion of this application revolves around the transport & treatment of stormwater. We have provide sizing calculations for each culvert, swale, stormwater pond and erosion control measure to ensure that all components of the stormwater & erosion control system are properly sized to handle the 25 year/24 hour storm event. MDEP will review the drainage & erosion control design & calculations.

Water quality treatment for much of the site will be provided with a new treatment pond that will receive runoff from most of Upper Twain Road, the RV camping areas around Roads "A" & "B", the clubhouse area, approximately half of the glamping area and a portion of Marsten's Road. The treatment pond will remove sediment from the runoff before it enters the Lower Pond. The Lower Pond will be outfitted with an under-drained gravel bench at the outlet to provide cooling to water as it enters the stream below the dam. The remainder of the site will receive treatment from localized stormwater buffers. Water quantity control will be done by modifying the outlet to the dam. The stormwater report can be found in Attachment 4.

## 2e: The ability of the town of provide necessary fire protection services to the site & development:

The improvements to Marston's Road will allow for safe and easy access to the site for emergency vehicles. We have proposed a fire pond with a dry hydrant near the entrance to the site. The existing ponds are too shallow to support a standard dry hydrant installation. They are also protected natural resources. The proposed stormwater/fire pond will offer more than one million gallons as currently designed. Additionally, the campground will have park rules limiting the use of camp fires and will operate a fire truck to assist with fire protection.



#### 3. The Planning board shall consider natural characteristics:

The natural characteristics of the site, including topography, drainage, and relationship to ground and surface waters and flood plains, shall not be such that the proposed use when placed in the site will cause undue harm to the environment or to neighboring properties.

The project will require a MDEP Site Location of Development Permit. The applicant will follow all MDEP regulations regarding surface waters, flood plains, ground water, stormwater & site stabilization. A water quality treatment/sediment pond will be constructed at the downstream end of the project. The pond will flow into the existing stream where it will flow into Marston's Pond. Modifications will be made to the downstream end of Marston's Pond to provide for cooling of runoff & water quality treatment for the stream as it leaves the property. Much of the site will be retained in its natural state for enjoyment by the campers.

#### **Section C: Shoreland Standards:**

This section may be applicable since a stream flows from the upper pond to & through the lower pond. Some of the existing & proposed development may be located within 75 of that stream. Additionally, the area around Marston's Pond is zoned Resource Protection. There is no proposed development around the pond (south of Marston's Road).

## a: Will not result in unreasonable damage to spawning grounds, Fish aquatic life, bird and other wildlife habitat:

The Maine Department of Environmental Protection & the Maine Department of Inland Fisheries & Wildlife will be reviewing the project for its impact to all fish & wildlife. The site is not considered to be a high value wading bird or waterfowl habitat. The stream below Lower Pond may be a trout habitat. Our proposed modifications to the downstream end of Lower Pond will improve the water quality & temperature of the stream flow.

#### b: Will reasonably conserve shoreland vegetation:

The MDEP has established a 75' no disturbance buffer along the stream. The Department of Inland Fisheries & Wildlife has suggested that the buffer be increased to 100'. As such, they will be requiring that a 75' to 100' undisturbed buffer be left along the stream & pond edges. A permit by rule will be submitted for all camp sites that are proposed within the buffer.

There will be no campsites adjacent to Marston's Pond. All areas surrounding Marston's pond — except the areas surrounding Marston's Road and the recreational areas already permitted — will be left in its natural state. Any previous disturbance will be revegetated per MDEP criteria.

#### c: Will reasonably conserve visual points of access to waters as viewed from public facilities:

The view of Marston's Pond is one of the highlights of the proposed design. It will be preserved. Access to Upper Pond will be improved and the view preserved.



#### d: Will conserve actual points of public access to waters:

Marstons Road & Upper Twain Road will be improved & will provide easy access throughout the site.

#### e: Will reasonably conserve natural beauty:

Much of the site will be preserved in its natural state. The applicant sees the properties natural beauty as the main attraction for this campground. It will be preserved & improved wherever possible.

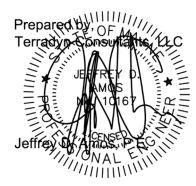
#### f: Will reasonably avoid problems associated with floodplain development or use:

There is not a floodplain associated with the stream outside of the existing banks.

The following items are attached as required by the Conditional Use Application procedures:

- Attachment 1: Conditional Use Application
- Attachment 2: Property Deeds
- Attachment 3: Location Map
- Attachment 4: Stormwater Management Report
- Attachment 5: Septic Test Pit Logs
- Attachment 6: HHE-200 forms
- Attachment 7: Traffic Study
- Attachment 8: Response Letter from Unusual & Natural Areas Program
- Attachment 9: Sample Reservations & Rate Sheet
- Attachment 10: Examples of Campgrounds with Rental Cabins
- Attachment 11: List of Campgrounds approved by the State in 2018
- Attachment 12: Recorded Boundary Survey
- Attachment 13: Site Density Exhibit
- Attachment 14: Preliminary Plans

We look forward to discussing this information with the Planning Board at an upcoming Planning Board Meeting. Thank you for your consideration, and please call me if you have any questions as you review the enclosed plans and information.







and attach written evidence of this

interest.

## Town of Baldwin

534 Pequawket Trail West Baldwin, Maine 04091 Phone: (207) 625-3581

Fax: (207) 625-7780

Date Application Received:	
Received by:	
Fee Paid:	

### **APPLICATION FOR CONDITIONAL USE PERMIT (CUP)**

The Land Use Ordinance of the Town of Baldwin allows the Planning Board to grant a

Conditional Use Permit (CUP) for those uses listed specifically as Conditional Uses in Article 6, District Regulations of the code. Before granting a permit, the Board must find that the standards contained in Article 8, Conditional Uses have been met. It is your obligation to submit the necessary materials to allow the Planning Board to determine if those standards have been met. Three copies of the complete application and supporting materials and the applicable fee shall be submitted to the Code Enforcement Officer. Section A. Basic Information (to be completed by all applicants) 1. Applicant's Legal Name: Nature's Wilderness, LLC 2. Applicant's Mailing Address: \_\_\_\_c/o Mr. Scott Efron, 2 Upper Twain Road Baldwin, ME 04091 3. Phone number where applicant can be reached during business hours. 207-787-6012 4. Are you the owner of record x yes (provide copy of Title and go to question 8) of the property for which the no (answer question 5, 6, and 7) Conditional Use Permit is sought? 5. To apply for a Cond. Use Permit, you must have legal right, title or interest in the property. Please indicate you interest in the property

6. Property Owner's Name	
7. Property Owner's Address	
8. Location of property for Which the permit is sought?	2 Upper Twain Road
9. Indicate the Map and Lot numb Property from the Town's asses	
10. Indicate Zoning District in which Property is located (check as m	
x Natural Resour Highlands x Rural Village Commo	
11. List the use for which a Conditi Article 6, District Regulations. as conditional use in the District	onal Use Permit is being sought. Please refer to The proposed use must be specifically listed t in which it is located.
Service Business, Community Building, 12. Attach the following information	ing uses are accessory: Primitive Recreation, Retail Business, Eating & Drinking Place & Neighborhood Store on to this application as outlined in Article 8, on, please indicate by checking  with your application.
Roadways and major na	the location of the property with respect to tural features. This map should allow the cel in the field and on the Town's zoning and tax

<ul> <li>_xb. A written description of the proposed use of the property. This statement shall describe the exact nature of the proposed use.</li> <li>_xc. An accurate, scale drawing of the lot showing the location of any existing or proposed buildings, structures, and natural features, driveways and parking areas.</li> <li>Section B. Standards for Conditional Use Permit (The full text appears in Article 8.3).</li> </ul>
<ol> <li>The Planning Board shall consider impact:         <ul> <li>a. the size of the proposed use compared with surrounding uses;</li> <li>b. the intensity of the proposed use, including amount and type of traffic to be generated, hours of operation, expanse of pavement, and similar measures of intensity of use, compared with surrounding uses;</li> <li>c. the potential generation of noise, dust, odor, vibration, glare, smoke, litter and other nuisances;</li> <li>d. unusual physical characteristics of the site, including size of the lot, shape of the lot, topography, and soils, which may tend to aggravate adverse impacts upon surrounding properties.</li> <li>e. the degree to which landscaping, fencing, and other design elements have been incorporated to mitigate adverse impacts on surrounding properties.</li> </ul> </li> <li>The Planning Board shall consider facilities:         <ul> <li>a. the ability of traffic to safely move into and out of the site at the proposed location;</li> <li>b. the presence of facilities to assure the safety of pedestrians passing by or</li> </ul> </li> </ol>
through the site;
<ul> <li>e. the ability of the Town to provide necessary fire protection services to the site and development.</li> <li>3. The Planning Board shall consider natural characteristics:         <ul> <li></li> <li></li> <li></li> </ul> </li> <li>The natural characteristics of the site, including topography, drainage, and relationship to ground and surface waters and flood plains, shall not be such that the proposed use when placed on the site will cause undue harm to the environment or to neighboring properties.</li> </ul>

feet of the normal high water mark of Adams Pond or the Saco River or with attach a written statement demonstration standard. For each item, please indication included with your application. Each	ortion of the property is located within 25 Ingalls Pond, Sand Pond, Southeast Pond in 75 feet of any stream. For each standing how the proposed use complies with the by checking that item that it has been standard must be addressed in your	d, ard,
submission.		
	e damage to spawning grounds. Fish aqu	atic
life, bird and other wildlife ha	NATIONAL PROPERTY OF THE PROPE	
xb. will reasonably conserve show		
public facilities;	al points of access to waters as viewed fr	om
d. will conserve actual points of	nublic access to waters:	
e. will reasonably conserve natu		
	is associated with floodplain developmer	t or
use.	is associated with Hoodplam developmen	it OI
Section D. Certification (to be comple	ted by all applicants)	
couldn't continuation (to be comple	ted by an applicants)	
I/we Scott Efron of Nature's Wilder	, certify that I/ we are the	
I/we are the owners of the property cov owner's consent to the filing of this ap	e Permit requested by this application, the vered by this application or have the proper plication and have legal interest in the ained in this application and supporting	it erty
I/we further certify that I/we have read Use Permits contained in the Land Use	the standards for granting of Conditional Ordinance.	
	Signature of Applicant	Date
	Signature of Applicant I	Date

For Planning Board Use Only	
Date Received by Baldwin Planning Board:	•
Received by:	
Public Hearing Date:	
Conditional Use Permit Application of:	
Permit Denied (date):	
Explanation of Denial:	
Permit Approved (date):	
Conditions to Permit if any,	
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	Insulation Type			

SUBSTANTIAL START DATE:

APPLICATION DATE:

#### DLN# 1001640007215

#### WARRANTY DEED

We, CAMP TWAIN, INC., a Maine Corporation, whose mailing address is 3 Bickford Street, Scarborough, Maine 04074, and MARY M. WAYE, now of 10 Bay Street, Scarborough, Maine 04074, for consideration paid, grant to NATURE'S WILDERNESS, LLC, a Florida Limited Liability Company with a mailing address of 17569 Middlebrook Way, Boca Raton, Florida 33496, with WARRANTY COVENANTS, the land in Baldwin, Cumberland County, Maine, more particularly described in EXHIBIT A attached hereto.

Being the same premises conveyed to Camp Twain, Inc. by Quitclaim Deed from Marianne G. Fenton, Cynthia J. Garner, Dana A. Garner, John W. Garner, Jr., and Suzanne G. Smith, dated December 28, 2001 and recorded in the Cumberland County Registry of Deeds in Book 17172, Page 120.

Also being the same premises conveyed to Mary M. Waye by deed from Sylvia B. Marston dated January 24, 1989 and recorded in the Cumberland County Registry of Deeds in Book 8638, Page 87.

WITNESS our hands and seals this	day o	of Ups	<u>.                                    </u>	<b>).</b>
	CAMP	TWAIN, INC.		
	By: Ma	Marianne G. Fento		Sw
	<u>Mary</u>	M. WAYE	age	
STATE OF MAINE Cumberland, ss:	Date:	4/26/16		
Personally appeared before me the a authorized President of Camp Twain, Inc.,	above-nar	ned MARIANN dwledged the fo	E G. FENTON, duly regoing to be her free a	et and
deed, individually and in her said capacity.	Notar	Public Attorne	Baluku X	
Please type or print name of Notary:		•	Jane L. Barriau Attorney at Law	lit

AGE/

STATE OF MAINE

Cumberland, ss:

Date: 4/26/16

Personally appeared before me the above-named MARY M. WAYE and acknowledged

the foregoing to be her free act and deed.

Notary Public Attorney at Law

Please type or print name of Notary:

Jane L. Barriault Attorney at Law

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#### EXHIBIT A

Certain lots or parcels of real property located in Baldwin, County of Cumberland and State of Maine, together with all buildings and other improvements thereon, bounded and described as follows:

#### Parcel 1:

A certain lot or parcel of land situated in said Baldwin, bounded and described as follows: To the North by the town road leading from West Baldwin to East Baldwin by way of the so-called Flint neighborhood; to the East by land now or formerly of John F. Flint and land now or formerly of Foresti Sandborn; to the South by land now or formerly of Foresti Sandborn, land now or formerly of Jeremiah B. Yates, and land now or formerly of Sylvanus R. Yates; and to the West by land now or formerly of Sylvanus R. Yates. Known as the "meadow lot", so-called, formerly owned by the late Joseph Harding, Jr.

#### Parcel 2:

A certain lot or parcel of land in said Baldwin, bounded and described as follows: Commencing at a concrete post on the north side of the road leading from West Baldwin to East Baldwin, by way of the so-called Flint neighborhood, North 1° 10' East, 251 feet to a stone and iron axle, bounded on the East by land now or formerly of D. T. Flint; from the stone and iron axle, South 51° 33' West 673 feet to a concrete post, and South on the same line 810 feet to a stake, bounded on the Northwest by land now formerly of D. T. Flint. From the stake, North 71° 48' East 995 feet to a second stake, bounded on the South by land now or formerly of Wilson Burnell and Mary H. Burnell. Form the second stake, 400 feet North 30° 15' East to the concrete post at which measurement commenced, bounded on the East by land now or formerly of said Wilson Burnell and Mary H. Burnell.

#### Parcel 3:

A certain lot or parcel of land situated in said Baldwin and bounded and described as follows: To the West by the line running from the second stake referred to hereinabove in description of Parcel 2, North 30° 15' East to the concrete post at which measurement was commenced in said Parcel 2, being all of the land lying between said line and Parcel 1.

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#### Parcel 4:

Also a certain lot or parcel of land situated in said Baldwin, now or formerly known as the Gore Lot, bounded and described as follows: To the North by land now or formerly of Scribner and Rankin; East by the land now or formerly known as the Binford Lot; South by land now or formerly of Wilson and Mary H. Burnell, and the now or formerly so-called Deacon's Fountain Road; west by land now or formerly of Walter Flint.

Subject to an easement granted to Dwight R. Mills, Incorporated, under deed dated November 7, 1979 recorded at Book 4524, Page 278 of said Deeds.

#### Parcel 5:

A certain lot or parcel of situated in said Baldwin and bounded and described as follows: On west by land now or formerly of Paul C. Marston and said John W. Garner; on the North by land now or formerly of the Paul C. Marston and said John W. Garner; on the East by the road leading to the now or formerly so-called "Jack Flint Place"; and on the South by the road leading from West Baldwin to the now or formerly so-called "Jack Flint Road".

Subject to the right reserved by Wilson Burnell and Mary H. Burnell to cut firewood on said lot, and a right of way to the Burnell family burial ground and around said ground to repair its fence as set forth in the deed at Book 1923, page 167 of said Deeds.

#### Parcel 6:

A certain lot or parcel of land situated in said Baldwin, bounded and described as follows: On the West by the road leading to the now or formerly so-called "Jack Flint place; on the North by land now or formerly of Paul C. Marston and said John W. Garner; on the East by land now or formerly of Paul C. Marston and said Garner; and on the South by the town road leading to East Baldwin;

#### Parcel 7:

A certain lot or parcel of land situated in said Baldwin, on the southerly side of the road leading from East Baldwin to West Baldwin, bounded and described as follows: Beginning on said road at a stone and hemlock tree at land now or formerly of S. W. Noyes, formerly known as Kennard's land; and South by land now or formerly of S. W. Noyes to an iron pipe driven in the ground at the land now or formerly of Harold H. Hawkes; West by land now or formerly of said Hawkes to a concrete post at land now or formerly of Wilson Burnell; North by land now or formerly of said Burnell to an iron pipe driven in the ground by said road to the point begun at.

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#### Parcel 8:

A certain lot or parcel of land situated in said Baldwin, on the North side of the road leading from East Baldwin to West Baldwin, bounded and described as follows: Beginning on said road at the stone wall at the land now or formerly of Paul C. Marston and said John W. Garner, North by the stone wall and land now or formerly of Paul C. Marston and said Garner to a corner in said stone wall at the land now or formerly of Milliken; East by the stone wall with the land now or formerly of Milliken to the now or formerly so-called Milliken Road; Southeast by the now or formerly so-called Milliken Road to the first mentioned road; West by the first mentioned road to the point begun at.

#### Parcel 9:

A certain lot or parcel of land situated in said Baldwin, bounded and described as follows: Beginning at a point on the West side of the road leading across the now or formerly so-called "Jack Flint farm" at the Southeast corner of the portion of said farm which lies West of said road; North by said road to a stone wall; West by said stone wall by a line extended from said wall across a brook to the east line of an old farm road; South by the east side of said old farm road and by its East line extended from the point where it makes a substantial turn to the South line of said farm; East by the south line of said farm to the point beginning.

Excepting and reserving to Delmont R. Hawkes, his heirs and assigns, a right of way on foot and with vehicles, from the road first mentioned across said parcel to land belonging to said Hawkes adjoining said parcel on the West, said right of way to coincide as nearly as may be with the old farm road above referenced to.

#### Parcel 10:

A certain lot or parcel of land situated in said Baldwin, adjoining Parcel 9 on the North, bounded and described as follows: Beginning at a point on the North line of said Parcel 9, 300 feet East from the brook aforementioned; West along said North line a distance of 600 feet and from these two points extending to the north, embracing a tract 300 feet in width on either side of said brook to the North line of land now or formerly of Loren B. Burnell.

Excepting and reserving to Delmont R. Hawkes, his heirs and assigns, the right of way to cross said parcel on foot or with vehicles, at any convenient point or points for the purposes of accessing to the land of said Hawkes lying west of said parcel, but not to the injury of any erection or structure thereon.

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#### Parcel 11:

A certain lot or parcel of land situated in said Baldwin, bounded and described as follows: Northeast by the Town Road leading from West to East Baldwin through the now or formerly so-called "Flint neighborhood"; Southeast by land now or formerly of Paul C. Marston and said John W. Garner and by Pigeon Brook; Southwest by land now or formerly of Wilson and Mary H. Burnell and land now or formerly of Henry W. and Nellie M. Black; Northwest by land now or formerly of Paul C. Marston and said Gamer, and by land now or formerly of the heirs of Arthur P. Yates:

#### Parcel 12:

Also a certain lot or parcel of land situated in said Baldwin, bounded and described as follows: South by the land now or formerly of the heirs of Henry H. Pierce; Southeast by Pigeon Brook; Southwest by land now or formerly of Henry W. and Nellie M. Black; North by the parcel described hereinabove as Parcel 11.

#### Parcel 13:

A certain lot or parcel of land situated in Baldwin, bounded and described as follows: Measuring from the center of the Central Maine Power tower, 28 feet to a line running parallel to the center of the line of said tower, this line being the south boundary; bounded Northwest by land now or formerly of Donald T. Flint; Southeast by the land now or formerly of the heirs of Arthur P. Yates; East by the land now or formerly of Paul C. Marston and said John W. Garner.

#### Parcel 14:

A certain lot or parcel of land situated in said Baldwin on the Southwest side of a pond now or formerly called Burnell's Pond, bounded and described as follows: Beginning in the Northwest side line of land now or formerly of Ralph Yates and Lillie E. Hefler, Southwest from said Pond, at a spotted hemlock tree situated Northeast of a large double white pine tree, and running in a straight line South 55° 45' East to the Southeast side line land now or formerly of said Yates and Hefler, at a spotted beach tree on land now or formerly of Paul C. Marston, said spotted beach tree being located approximately ten feet East of a large white pine tree; Northeast along the division line between land now or formerly of said Yates and Hefler, and land now or formerly of Paul C. Marston to said pond; West or Northwest along the shore of said pond to the division line between land now or formerly of said Yates and Hefler and other land of Paul C. Marston; Southwest along said last named division line to the point of beginning;

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Register of Deeds Nancy A. Lane E-RECORDED

#### Parcel 15:

A certain lot or parcel of land situated in said Baldwin, on the easterly side of the now or formerly so-called Deacon Road, leading from Route No. 113 past the "Jack Flint place," and bounded and described as follows: Beginning on said Deacon Road at a point in the above described Parcel 4, said point of beginning marked by a pipe set in the ground; North by said Deacon Road and land of Paul C. Marston past the cellar of the dwelling formerly of the late Jack Flint a distance of 677 feet, more or less, to the first stone wall on land formerly of Delmont R. Hawkes, now or formerly Dwight R. Mills, Incorporated; East by the stone wall at land formerly of said Hawkes, now or formerly of Dwight R. Mills, Incorporated, a distance of 690 feet, more or less, to an intersection with a stone wall running southerly at other land now or formerly of Dwight R. Mills, Incorporated; South by said stone wall and land now or formerly of Dwight R. Mills, Incorporated, formerly of said Hawkes, a distance of 1070 feet, more or less, to a stone wall on land of the Decedent; West by said stone wall and land of Paul C. Marston a distance of 300 feet, more or less, to the point of beginning;

#### Parcel 16:

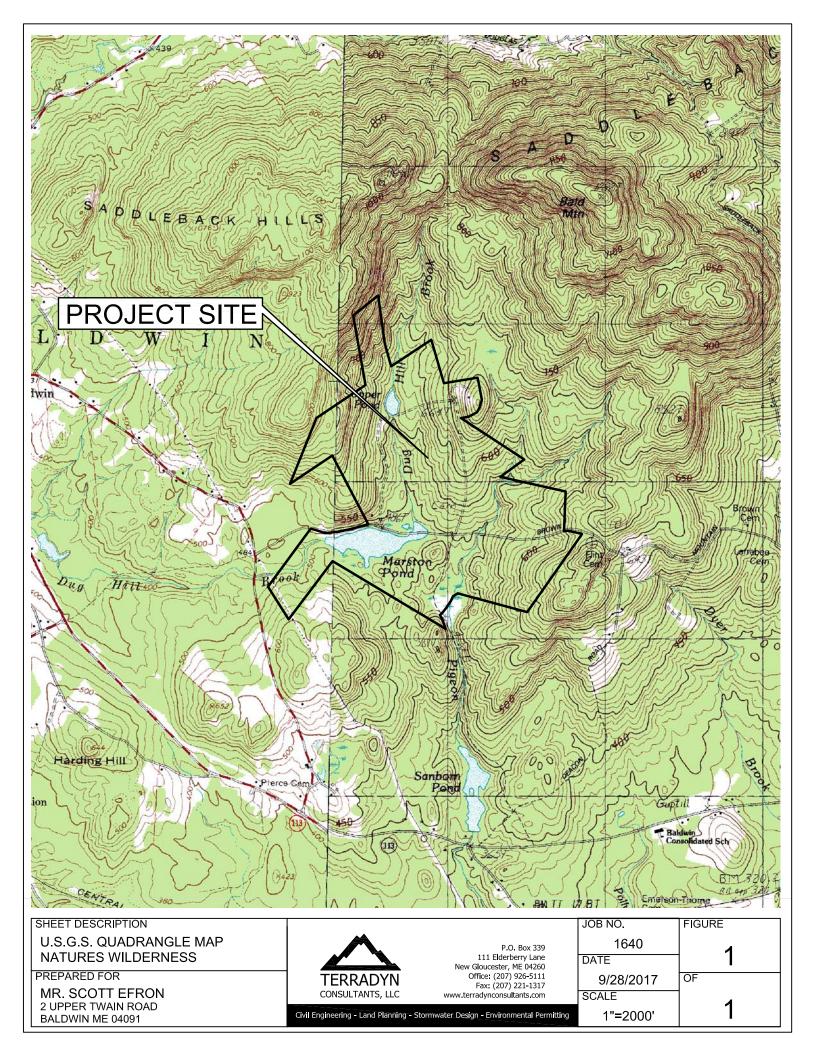
A certain lot or parcel of land situated in said Baldwin, lying South and East of the two lines hereinafter described: The first line begins on the West side of the Deacon Road at the second stone wall which is 1000 feet North from Parcel 4 hereinabove described, opposite the iron pipe being the point of beginning for Parcel 15 hereinabove described, said line running West a distance of 1200 feet, more or less, to a brook and continuing the same course across the brook 900 feet, more or less, to the East line of an old farm road marked by a line of iron posts. The second line begins at the West end of the first line of the East side of said farm road and runs South by said road and the line of iron posts a distance of 650 feet, more or less, to a point where the farm road turns at the East, and then continues on the extension of said farm road South an additional distance of 530 feet, more or less, to Parcel 4 hereinabove described.

Reference may be made to "Boundary Survey for Mary M. Waye and Pauline Garner, Baldwin, Maine" dated 12/28/1995, scale 1"=300', prepared by Lester Hammond, Jr. and duly recorded in Plan Book 196, Page 84 in the Cumberland County Registry, which shows most of the above described premises.

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#### STORMWATER MANAGEMENT PLAN

#### Nature's Wilderness Campground

#### Baldwin, Maine

The following Stormwater Management Plan has been prepared for Nature's Wilderness Campground, LLC to evaluate stormwater runoff and erosion control for the proposed campground consisting of approximately 190 mixed use lots: recreational vehicles, tents, and cabins off Senator Black Road and Marston Road, in Baldwin, Maine.

#### **Site Calculations**

Total Property Area	117 Ac (+/-)
Existing Impervious Area	2.00 Ac
Total New Impervious Area	22.5 Ac
Total Landscaped Area	22.5 Ac
Total Developed Area	45.0 Ac

#### **Assumptions**

Each campsite will include a level area for the camping vehicle or tent, at least one parking space, an area for a picnic table and an area for gathering around the fire ring. These are all requirements of the State of Maine and the Town of Baldwin for any campground. Additionally, the Town of Baldwin requires that 5,000 square feet of land area be available for each campsite. Utilizing these requirements, we assume the following areas for each category of campsite:

- Walk-In Tent site: 600 square feet of impervious area, 4,400 square feet of green space.
- Drive-In Tent site: 1,750 square feet of impervious area, 3,250 square feet of green space.
- Recreational vehicle lots without on-site sewer disposal: 2,950 square feet of impervious area, 2,050 square feet of green space
- Recreational vehicle lots with on-site sewer disposal: 3,050 impervious area, 1,950 square feet of green space
- Cabin lot: 1,000 square feet of impervious area, 4,000 square feet of green space

Clearing will be limited to meet the requirements discussed above for most campsites. There are some areas that will not have trees in between each site. Overall grading of the site will retain the overall natural slopes of the site, while creating relatively level sites for users.

#### **Existing Conditions**

The development parcel is located on the easterly side of Route 113 in Baldwin, approximately 6 miles to the west of Sebago Lake. The property is approximately 1,000 acres and is accessed by Marston Road. The site is bounded to the west by large residential lots along Senator Black Road, while undeveloped properties are adjacent to the north, east and south. The property is mostly wooded and undeveloped. There is an existing gravel roadway leading into the property from the Brown Road, with multiple multiuse trails located throughout the property.

The development area is located within the Marston Pond watershed. Marston Pond then outlets to Dug Hill Brook, which ultimately terminates in the Saco River. None of these watersheds are listed as a protected watershed by the MDEP.

The project area features topography that contains significant hills and steep banks surrounding the water bodies on the site. Dug Hill Brook is located in the valley. The site generally falls from elevation 1032 feet to the west, and 714 feet to the east, to an elevation of 496 at the surface of Marston Pond. This results in an average grade of approximately 6% to the east of Dug hill Brook, and 18% to the west. The central portion development area has flatter slopes and low areas that contain wetland areas, Upper Pond and a stream channel that is the major inlet of Marston Pond.

#### **Proposed Development**

Nature's Wilderness Campground is a proposed approximately 190 lot campground. The development will include the construction of gravel roadways, driveway and parking lots to access individual gravel campsites. Support buildings and infrastructure such as a clubhouse, cabins, swimming pool, bathroom and recreation buildings will be constructed as well. This will add a significant amount of new impervious area to the property.

The project stormwater management system will feature a combination of forested buffer areas, vegetated and riprap swales, culverts and a large treatment pond/fire pond before utilizing the existing Marston Pond for flood control. A gravel bench outlet will be added to Marston Pond to control water temperatures prior to release to Dug Hill Brook, downstream. a forest buffer between the new lots and Dug Hill Brook, to slow down the flow from the new development, prior to reaching the stormwater management pond proposed for the north side of Marston Road. The outlet of the new pond will pass under Marston Road to Marston Pond for channel protection, and a gravel bench will be constructed at the western end of Marston Pond, along with a fixed elevation dam for flooding control to meet the Maine DEP Chapter 500 standards.

Description	Number of Sites
Tent site	83
Recreational vehicle lots without on-site sewer disposal	44
Recreational vehicle lots with on-site sewer disposal	43
Cabin lot	20

#### **Drainage Pattern**

Runoff from the new development will be directed to the stormwater management/fire pond proposed for the north side of Marston Road. The outlet of the new fire pond will pass under Marston Road to Marston Pond for channel protection, and a gravel bench will be constructed at the western end of Marston Pond, along with a fixed elevation dam for flooding control to meet the Maine DEP Chapter 500 standards. This outlet is modeled as Study Point 1 in the attached stormwater analysis.

The proposed stormwater management system will be designed to preserve the general pre-development flow patterns.

#### <u>Flooding</u>

The development area is not located within an area of flood hazard according to the Federal Insurance Rate Map 230200005B, 9B&10B, effective on 07/02/1980. Maps attached to application.

#### **Modeling Assumptions**

The onsite stormwater facilities were sized utilizing the USDA Soil Conservation Service (SCS) TR-20 Runoff Simulation Model, as contained in the HydroCAD computer software program (Version 9.0). Runoff curve numbers were determined for each direct watershed by measuring the area of each hydrologic soil group within each type of land cover. Weighted curve numbers were then calculated using curve numbers for various cover types and hydrologic soil groups, assuming "good" conditions as defined in U.S Soil Conservation Service (SCS) publications. Times of concentration and travel times were determined from site topographic maps in accordance with SCS procedures. A maximum length of 150 feet was used for sheet flow.

All of the watersheds' peak runoff rates were analyzed for the 2, 10, and 25-year frequency, 24-hour duration storm events. A Type III rainfall distribution was applied to these storms. The rainfall amounts for Cumberland County (North Windham Area) are as follows:

Storm Frequency Precipitation (in./24 hr)			
2-year	3.1		
10-year	4.6		
25-year	5.8		

The Town of Baldwin Zoning Ordinance only requires analysis for the 25-year, 24-hour storm event, so we have limited our report to this storm event.

#### <u>Soils</u>

The soils within the project area were delineated by Statewide Surveys, Inc. and are shown on the attached High Intensity Soil Survey. The soil survey reports that the watershed soils are as summarized below:

Soil Type Summary Table			
Soil Symbol	Soil Name	HSG	
Hg	Hermon	А	
Hr	Lyman-Tunbridge	D	
Hs	Lyman-Abram	D	
Pf	Paxton	С	
Pk	Peru	C/D	
Rb	Ridgebury	C/D	
Wr	Woodbridge	С	
Tu	Tunbridge	С	
Ud	Filled Land	D	

The soils outside of the project area are from the Cumberland County Medium Intensity Soil Survey as shown on the Soil Data Viewer on the NRCS website (See attached map).

#### **Water Quantity (Flooding Standard)**

The following table summarizes the results of stormwater calculations for the design storm events for the project area. Calculations and computer modeling sheets are provided with this report.

Table 1 - Stormwater Runoff Summary Table						
Pre-Development vs. Post-Development						
Study Point #	2Yr/24I	Hr (cfs)	10Yr/24Hr (cfs)		25Yr/24Hr (cfs)	
Point #	Pre	Post	Pre	Pre	Pre	Post
1	N/A	N/A	N/A	N/A	15.76	17.50

As the above result table shows, the post-development flow rate for the 25-year/24-hour design storm events are nearly equal to the pre-development condition. The temporary volume of storage available within the existing Marston Pond adequately stores the Post-

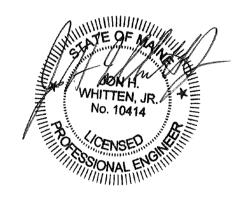
Development volumes, meeting the MDEP standards for temporary storage for channel protection volume.

#### **Summary**

Based on the results of this evaluation, the proposed stormwater design is not expected to cause flooding, erosion or other significant adverse effects downstream of the site.

Prepared by:

PLYMOUTH ENGINEERING, INC.



Dated: 11-15-2018

Jon H. Whitten, Jr., P.E.

Senior Project Manager



# Soil Suitability Report

prepared for

# Nature's Wilderness Campground (Terradyn Consultants, LLC) Marston Road Baldwin, Maine

February 2018

Soil test pits observed January 30, and February 6, 2018

Maps prepared for proposed campground utilizing private water supplies and on-site subsurface wastewater disposal

Map scaled I" = 120', base map provided by Terradyn Consultants, LLC

Longview Partners was contracted by Terradyn Consulting, LLC to evaluate soils for a proposed campground and recreation facility. The campground, as we understand it, will include campsites with full sewer hook-ups, primitive tenting sites which will have access to public restrooms and showers, a full-service restaurant serving three meals per day, and multiple free-standing cabins.

Soils were evaluated at pre-selected locations as shown on a plan provided by Terradyn Consulting, LLC. Some locations were adjusted while on-site, as needed, to accommodate existing topograpohic features and to take advantage of soils suitable for siting first-time subsurface wastewater disposal fields per the standards of the State of Maine Subsurface Wastewater Disposal Rules (the Rules). All soils evaluated consist of stony, glacial till soils that generally exhibit 'perched' water tables above a restrictive substrata (hardpan). These soils require medium-large size ratings per the Rules, or 3.3 sq. ft. of suitable soil area per gallon of wastewater generated per day.

Design flows for some of the proposed uses are as follows:

Campsites with full sewer & water hook-up: 75 gallons per day (gpd) per site

Free-standing cabins (minimum 2 bedrooms/unit): 180 gpd per cabin (90 gpd per bedroom)

Full-service restaurant serving 3 meals per day with china (non-paper) service: 45 gpd/seat and 12 gpd/employee (a grease trap will also be required and a multiplier of 1.8 x base design flow will be utilized to account for increased strength of restaurant wastewater flows)

A recreation hall is also shown on the plan, which includes space for limited café-style food preparation and a small bar service for individuals staying in the campground. This design flow (bar/tavern/cocktail lounge w/ limited food per the *Rules*) will be assessed at either 15 gallons per seat or 13 gallons per patron.

Since it is uncertain where vehicular traffic/parking may be needed in the vicinity of the proposed disposal fields, we recommend installation of H-20 rated concrete chambers which can withstand heavy loads. Due to shallow water tables and existing topography in certain locations, pump stations are likely to be needed to convey wastewater collected to final disposal field locations.

Please take note that *public water supplies* (i.e. 25 or more users per day) require 300' setbacks to all disposal fields. Disposal fields less than 1,000 gpd must be located 100' to the ponds located on site and the stream identified. Disposal fields of 1,000 to 1,999 gpd must maintain setbacks of 200' to ponds and streams. Fields designed for more than 2,000 gpd require 300' setbacks and must be stamped by a Professional Engineer. Fields of this size also require additional review and approval by the State of Maine Division of Environmental Health. Nitrate and mounding analysis are also required for disposal fields designed for 2,000 gpd or more.

The project site has significant areas of suitable soils available for final placement of wastewater disposal fields, or reserve areas if engineered designs are required. Longview Partners can return to the site, if necessary, to provide additional soil test pit data for final designs. Please note that additional field work is required to complete full subsurface wastewater design applications (form HHE-200) for final review and permitting once wastewater design flows have been quantified.

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#### Maine Dept Health & Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Div of Environmental Health . 11 SHS (207) 287-5672 Fax: (207) 287-4172 PROPERTY LOCATION >> CAUTION: LPI APPROVAL REQUIRED << City, Town, BALDWIN or Plantation Street or Road Date Permit Issued \_\_\_\_/\_\_\_/\_\_\_ 2 UPPER TWAIN ROAD Subdivision, Lot# Local Plumbing Inspector Signature LPI # OWNER/APPLICANT INFORMATION □ Owner □ Town □ State Name (last, first, MI) NATURE'S WILDERNESS RESORT Applicant The Subsurface Wastewater Disposal System shall not be installed until a c/o SCOTT EFRON Permit is issued by the Local Plumbing Inspector: The Permit shall Mailing Address of authorize the owner or installer to install the disposal system in accordance 2 UPPER TWAIN ROAD BALDWIN, ME 04091 Owner/Applicant with this application and the Maine Subsurface Wastewater Disposal Rules. Daytime Tel.# Municipal Tax Map # 207-787-6012 OWNER OR APPLICANT STATEMENT I state and acknowledge that the information submitted is correct to the best of CAUTION: INSPECTION REQUIRED I have inspected the installation authorized above and found it to be in compliance my knowledge and understand that any falsification is reason for the Department and/or with the Subsurface Wastewater Disposal Rules Application. Local Plumbing Inspector to deny a Permit. (1st) date approved Signature of Owner or Applicant Local Plumbing Inspector Signature (2nd) date approved PERMIT INFORMATION TYPE OF APPLICATION THIS APPLICATION REQUIRES DISPOSAL SYSTEM COMPONENTS 1. Complete Non-engineered System 1. First Time System 1. No Rule Variance 2. Primitive System (graywater & alt. toilet) 2. Replacement System 2. First Time System Variance 3. Alternative Toilet, specify:\_\_\_\_ Local Plumbing Inspector Approval State & Local Plumbing Inspector Approval Type replaced: 4. Non-engineered Treatment Tank (only) - 5. Holding Tank, \_\_\_ Year installed: gallons. 3. Replacement System Variance 6. Non-engineered Disposal Field (only) Expanded System a. <25% Expansion</li> b. ≥25% Expansion Local Plumbing Inspector Approval State & Local Plumbing Inspector Approval 7. Separated Laundry System 8. Complete Engineered System (2000 gpd or more) Experimental System 9. Engineered Treatment Tank (only) 4. Minimum Lot Size Variance 5. Seasonal Conversion 10. Engineered Disposal Field (only) Seasonal Conversion Permit 11. Pre-treatment, specify: SIZE OF PROPERTY DISPOSAL SYSTEM TO SERVE 12. Miscellaneous Components 1. Single Family Dwelling Unit, No. of Bedrooms: TYPE OF WATER SUPPLY 301.08+/-2. Multiple Family Dwelling, No. of Units: PROPOSED 3. Other: CAMPGROUND-14 SITES 1. Drìlled Well 2. Dug Well 3. Private SHORELAND ZONING (specify) 4. Public 5. Other No Current Use Şeasonal Year Round Undeveloped DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3) TREATMENT TANKS **DISPOSAL FIELD TYPE & SIZE DESIGN FLOW GARBAGE DISPOSAL UNIT** 840 gallons per day 1. Concrete 1. Stone Bed 2. Stone Trench 1. No 2. Yes 3. Maybe H-20 3. Proprietary Device BASED ON: a. Regular If Yes or Maybe, specify one below: b. Low Profile RATED 1. Table 4A (dwelling unit(s)) a. cluster array c. Linear a. multi-compartment tank b. regular load d. H-20 load 2. Table 4C(other facilities) 2. Plastic tanks in series SHOW CALCULATIONS for other facilities 4. Other: 3. Other: c. increase in tank capacity -CAMPGROUND-3328 sq. ft. lin. ft. SIZE: CAPACITY: 1500 d. Filter on Tank Outlet 14 SITES AT 60 GALLONS PER DAY/SITE 52 CONCRETE CHAMBERS 14 X 60 = 840 GPD SHARED RESTROOM WITH SHOWERS **SOIL DATA & DESIGN CLASS** DISPOSAL FIELD SIZING EFFLUENT/EJECTOR PUMP 3. Section 4G (meter readings) PROFILE CONDITION 1. Not Required ATTACH WATER METER DATA SEE NOTE 3 / D 1. Medium---2.6 sq. ft. / gpd LATITUDE AND LONGITUDE 2. May Be Required ON PAGE 3 at center of disposal area at Observation Hole #TP 6 2. Medium---Large 3.3 sq. f.t / gpd 3. Required 43 d 38 70 d 20 m **09** Depth 13 " 3. Large---4.1 sq. ft. / gpd Specify only for engineered systems: m 48 of Most Limiting Soil Factor if g.p.s, state margin of error: 4. Extra Large---5.0 sq. ft. / gpd DOSE: \_ SITE EVALUATOR STATEMENT 8/30/18 (date) Lompleted a site evaluation on this property and state that the data reported are accurate and certify that on that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241). 237 Site Evaluator Signature JAMES LOGAN longviewpartners213@gmail.com 207-693-8799 Site Evaluator Name Printed Telephone Number E-mail Address

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

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#### Department of Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165 Town, City, Plantation Street, Road, Subdivision Owner's Name BALDWIN 2 UPPER TWAIN ROAD NATURE'S WILDERNESS RESORT SITE PLAN Scale 1"= ft. or as shown 100 SITE LOCATION PLAN (map from Maine Atlas recommended) PPER TWAIN ROAD PROPOSED DISPOSAL FIELD SITE MARSTONS ROAD 9" DIA. FLAGGED MAPLE PROPOSED RESTROOMS **ERP: NAIL 49" ABOVE** BASE OF 13" DIA. FLAGGED OAK PROPERTY BOUNDARY INFORMATION PER EXISTING CONDITIONS PLAN BY TERRADYN CONSULTANTS, LLC VERIFY ACCURATE PROPERTY LINES IN FIELD PRIOR TO CONSTRUCTION TO ASSURE SETBACKS SHOWN SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above) Observation Hole TP 6 Test Pit ☐ Boring Observation Hole Test Pit Boring " Depth of Organic Horizon Above Mineral Soil " Depth of Organic Horizon Above Mineral Soil SOIL TEST PIT BY BACKHOE Texture Consistency Texture Color Mottling Mottling Consistency Color 0 GHT GRAY (ALBIC) DARK YELLOWISH STONY FINE Depth Below Mineral Soil Surface (inches) SANDY FRIABLE Depth Below Mineral Soil Surface (inches) LOAM BROWN COMMON MIXED FAINT STONY OLIVE COMMON 20 LOAMY FIRM BROWN DISTINCT SAND & SAND 30 40 LIMIT OF EXCAVATION @ 51" Soil Classification Limiting [X] Ground Water Slope Soil Classification Slope Limiting [ ] Ground Water Factor ] Restrictive Layer ] Restrictive Layer Factor 3 3-4 % ] Bedrock ] Bedrock 13 " Profile Condition [ ] Pit Depth Profile Condition [ ] Pit Depth Page 2 of 3 237 HHE-200 Rev. 8/01 Site Evaluator Signature SE#

#### Department of Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165 Town, City, Plantation Street, Road, Subdivision Owner's Name BALDWIN 2 UPPER TWAIN ROAD NATURE'S WILDERNESS RESORT SUBSURFACE WASTEWATER DISPOSAL PLAN NOTE: THOROUGHLY ROTOTILL UNDER ENTIRE SCALE: 1" = 30 FT. DISPOSAL FIELD, SHOULDER AREA, & FILL -47" EXTENSION AREA PRIOR TO FILL PLACEMENT, THEN BLEND FIRST 6" LIFT OF FILL INTO EXISTING SOIL SURFACE TO PROMOTE MIXING EXISTING GRADE AT CORNER -64" 111/ 11/1 DISTRIBUTION BOX INSULATED PER CODE PROPOSED DISPOSAL FIELD REQUIREMENTS (BOTTOM (4 ROWS OF 13 H-20 RATED FEED IF PUMPING) CONCRETE CHAMBERS) 315 ERP: NAIL 49" ABOVE BASE OF 13" DIA. FLAGGED OAK [REFERENCE ELEV. 00"] APPROXIMATE TOE OF FILL -47" -64" 4" DIA. SDR-35 SOLID PVC (IF 11/1 GRAVITY) OR 1 ½" TO 2" DIA., EFFLUENT LINE BURIED BELOW 11/ 9" DIA. FROST & INSULATED TO PREVENT FLAGGED FREEZING (IF PUMPING) SLEEVE LINE BENEATH ROADWAY MAPLE 0 PROPOSED H-20 RATED 1500 GALLON CONCRETE SEPTIC TANK LOCATED 8' MIN. FROM BUILDING.SET AT HIGH ENOUGH ELEVATION TO PROPOSED ASSURE GRAVITY FLOW OR INSTALL PUMP STATION ASSURE WATERTIGHTNESS & INSTALL OUTLET FILTER RESTROOMS FILL REQUIREMENTS CONSTRUCTION ELEVATIONS ELEVATION REFERENCE POINT -11" Location & Description: Finished Grade Elevation Depth of Fill (Upslope) NAIL 49" ABOVE BASE OF 13" DIA. FLAGGED OAK Top of Distribution Pipe or Proprietary Device -23" 00" Reference Elevation: Depth of Fill (Downslope) 50"- 53" Bottom of Disposal Area -42" DISPOSAL AREA CROSS SECTION Scale Horizontal 1" = 10 ft. 1" = 5 ft. Vertical TO 12 FILL EXT .-→ 5' SHOULDER 5" SHOULDER -20° TO 21' FILL EXT. EXISTING GRADE SCARIFY/ROTOTILL (SEE NOTE ABOVE) GRAVELLY COARSE SAND EXISTING GRADE CAP TOE OF FILL WITH SANDY LOAM MATERIAL GRAVELLY COARSE SAND TO PREVENT WASTEWATER PLACE 12" THICKNESS OF 1 ½" CLEAN CRUSHED STONE ALONGSIDE & 6" BREAKOUT CLEAN TO STONE TOOS UNDERNEATH PERIMETER OF CONCRETE CHAMBER UNITS did 3/3/2 03 18/6 05 31/2/8 3 7 CONCRETE CHAMBER DETAIL (no scale) 237 Page 3 of 3 HHE-200 Rev. 8/01 Site Evaluator Signature SE#

#### Maine Dept Health & Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Div of Environmental Health . 11 SHS (207) 287-5672 Fax: (207) 287-4172 PROPERTY LOCATION >> CAUTION: LPI APPROVAL REQUIRED << City, Town, BALDWIN or Plantation Town/City \_ Street or Road 2 UPPER TWAIN ROAD Date Permit Issued \_\_\_\_/\_\_\_/ Fee: \$ Subdivision, Lot# Local Plumbing Inspector Signature LPI # OWNER/APPLICANT INFORMATION Owner Down State Name (last, first, MI) NATURE'S WILDERNESS RESORT Applicant The Subsurface Wastewater Disposal System shall not be installed until a c/o SCOTT EFRON Permit is issued by the Local Plumbing Inspector: The Permit shall Mailing Address of authorize the owner or installer to install the disposal system in accordance 2 UPPER TWAIN ROAD BALDWIN, ME 04091 Owner/Applicant with this application and the Maine Subsurface Wastewater Disposal Rules. Municipal Tax Map # Daytime Tel. # 207-787-6012 CAUTION: INSPECTION REQUIRED OWNER OR APPLICANT STATEMENT I have inspected the installation authorized above and found it to be in compliance I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/o with the Subsurface Wastewater Disposal Rules Application. Local Plumbing Inspector to deny a Permit. (1st) date approved Signature of Owner or Applicant Date Local Plumbing Inspector Signature (2nd) date approved PERMIT INFORMATION TYPE OF APPLICATION THIS APPLICATION REQUIRES DISPOSAL SYSTEM COMPONENTS 1. Complete Non-engineered System 1. No Rule Variance 1. First Time System 2. Primitive System (graywater & alt. toilet) 2. Replacement System 2. First Time System Variance 3. Alternative Toilet, specify:\_\_ Local Plumbing Inspector Approval State & Local Plumbing Inspector Approval Type replaced: 4. Non-engineered Treatment Tank (only) 5. Holding Tank, \_\_\_\_ Year installed: 3. Replacement System Variance 6. Non-engineered Disposal Field (only) 3. Expanded System a. <25% Expansion b. >25% Expansion Local Plumbing Inspector Approval State & Local Plumbing Inspector Approval 7. Separated Laundry System 8. Complete Engineered System (2000 gpd or more) 4. Experimental System 9. Engineered Treatment Tank (only) 4. Minimum Lot Size Variance 10. Engineered Disposal Field (only) 5. Seasonal Conversion 5. Seasonal Conversion Permit 11. Pre-treatment, specify: SIZE OF PROPERTY DISPOSAL SYSTEM TO SERVE 12. Miscellaneous Components 1. Single Family Dwelling Unit, No. of Bedrooms: TYPE OF WATER SUPPLY SQ. FT. 301.08+/-2. Multiple Family Dwelling, No. of Units: PROPOSED 3. Other: CAMPGROUND-12 RV SITES 1. Drilled Well 2. Dug Well 3. Private SHORELAND ZONING (specify) 4. Public 5. Other No Current Use Seasonal Year Round Undeveloped Yes DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3) **DESIGN FLOW** DISPOSAL FIELD TYPE & SIZE **GARBAGE DISPOSAL UNIT** TREATMENT TANKS 900 gallons per day . Stone Bed 2. Stone Trench 1. No 2. Yes 3. Maybe 1. Concrete H-20 BASED ON: 3. Proprietary Device a. Regular If Yes or Maybe, specify one below: 1. Table 4A (dwelling unit(s)) b. Low Profile RATED a. cluster array c. Linear a. multi-compartment tank 2. Table 4C(other facilities) b. regular load d. H-20 load tanks in series 2. Plastic SHOW CALCULATIONS for other facilities increase in tank capacity 3. Other: -CAMPGROUND-3264 sq. ft. lin. ft. CAPACITY: 1500 GAL SIZE: d. Filter on Tank Outlet 12 RV SITES (WITH WATER & SEWER AT EACH SITE) AT 75 GALLONS PER DAY/SITE 51 CONCRETE CHAMBERS (OR 2-1000's IN SERIES) 12 X 75 = 900 GPD SOIL DATA & DESIGN CLASS **DISPOSAL FIELD SIZING EFFLUENT/EJECTOR PUMP** Section 4G (meter readings) PROFILE CONDITION ATTACH WATER METER DATA 1. Not Required SEE NOTE LATITUDE AND LONGITUDE 1. Medium---2.6 sq. ft. / gpd 2. May Be Required ON PAGE 3 at Observation Hole #TP 2 at center of disposal area 2. Medium---Large 3.3 sq. f.t / gpd \_d 49 3. Required m 41 Depth 48 " m 33 3. Large---4.1 sq. ft. / gpd 70 d 44 Specify only for engineered systems: of Most Limiting Soil Factor if g.p.s, state margin of error: 4. Extra Large---5.0 sq. ft. / gpd DOSE: SITE EVALUATOR STATEMENT 8/30/18 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241). 237 Site Waluator Signature JAMÉS LOGAN longviewpartners213@gmail.com 207-693-8799 Site Evaluator Name Printed Telephone Number E-mail Address Note: Changes to or deviations from the design should be confirmed with the Site Evaluator. Page 1 of 3

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#### Department of Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165 Town, City, Plantation Street, Road, Subdivision Owner's Name BALDWIN 2 UPPER TWAIN ROAD NATURE'S WILDERNESS RESORT SITE PLAN ft. or as shown 100 SITE LOCATION PLAN (map from Maine Atlas recommended) PPER TWAIN ROAD BLACK ROAD PROPOSED SITE DISPOSAL FIELD FOR RESTAURANT MARSTONS ROAD PROPERTY BOUNDARY INFORMATION 24" DIA. PER EXISTING CONDITIONS PLAN BY FLAGGED TERRADYN CONSULTANTS, LLC HEMLOCK VERIFY ACCURATE PROPERTY LINES IN FIELD PRIOR TO CONSTRUCTION TO ASSURE SETBACKS SHOWN SEPTIC TANK/PIPING LOCATIONS TO BE DETERMINED ON-SITE WITH SITE **EVALUATOR** PROPOSED MAJOR DISPOSAL WATERCOURSE FIELD ERP: NAIL AT BASE OF 12" DIA. FLAGGED MAPLE STUMP SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above) ☐ Boring ☐ Test Pit Observation Hole \_\_\_\_\_\_ Test Pit Observation Hole ☐ Boring " Depth of Organic Horizon Above Mineral Soil " Depth of Organic Horizon Above Mineral Soil SOIL TEST PIT BY BACKHOE Consistency Color Mottling Texture Mottling Consistency 0 0 SANDY Soil Surface (inches) Depth Below Mineral Soil Surface (inches) LOAM & LOAMY VARIABLE SAND (FILL) BROWN 20 FRIABLE Below Mineral S DARK YELLOWISH STONY FINE BROWN SANDY LOAM YELLOWISH 40 BROWN 40 Depth 50 STONY LOAMY SAND FIRM OLIVE BROWN COMMON FAINT 50 Soil Classification FILL OVER [X] Ground Water Slope Limiting Soil Classification Slope Limiting [ ] Ground Water Factor Restrictive Layer Restrictive Layer Factor 0-1 % [ ] Bedrock ] Bedrock 48 [ ] Pit Depth Profile Condition Profile Condition [ ] Pit Depth Page 2 of 3 237 HHE-200 Rev. 8/01 Site Evaluator Signature SE#

#### Department of Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165 Town, City, Plantation Street, Road, Subdivision Owner's Name BALDWIN 2 UPPER TWAIN ROAD NATURE'S WILDERNESS RESORT SUBSURFACE WASTEWATER DISPOSAL PLAN SCALE: 1" = 30 NOTE: THOROUGHLY ROTOTILL UNDER ENTIRE 4" DIA. SDR-35 FT. DISPOSAL FIELD, SHOULDER AREA, & FILL SOUD PVC EXTENSION AREA PRIOR TO FILL PLACEMENT, THEN BLEND FIRST 6" LIFT OF FILL INTO EXISTING a PROPOSED H-20 RATED 1500 GALLON (OR 2-1000 SOIL SURFACE TO PROMOTE MIXING GALLON) CONCRETE SEPTIC TANK LOCATED 8' MIN. FROM BUILDING, SET AT HIGH ENOUGH 24" DIA. ELEVATION TO ASSURE GRAVITY FLOW OR INSTALL PUMP STATION ASSURE WATERTIGHTNESS & FLAGGED HEMLOCK INSTALL OUTLET FILTER DISTRIBUTION BOX INSULATED PER CODE REQUIREMENTS ERP: NAIL IN BASE OF 12" DIA. FLAGGED PROPOSED DISPOSAL FIELD MAPLE STUMP (3 ROWS OF 17 H-20 RATED [REFERENCE ELEV. 00"] CONCRETE CHAMBERS) **EXISTING GRADE** AT CORNER APPROXIMATE TOE OF FILL FILL REQUIREMENTS CONSTRUCTION ELEVATIONS ELEVATION REFERENCE POINT -67" Location & Description: Finished Grade Elevation 0"- 2" Depth of Fill (Upslope) NAIL AT BASE OF 12" DIA. FLAGGED MAPLE STUMP -79" Top of Distribution Pipe or Proprietary Device Reference Elevation: 00" Depth of Fill (Downslope) 0"- 3" -98" Bottom of Disposal Area DISPOSAL AREA CROSS SECTION Scale Horizontal 1" = 10 ft. 1" = **5** ft. Vertical 5' SHOULDER CAP TOE OF FILL WITH SANDY LOAM MATERIAL TO PREVENT WASTEWATER BREAKOUT EXISTING GRADE PADE 25% **EXISTING GRADE** GRAVELLY COARSE— SAND REMOVE ALL PORTIONS OF UNCONTROLLED FILL MATERIAL TO A MINIMUM DEPTH OF 1 BENEATH CONCRETE CHAMBERS AND 3' ALONGSIDE. REPLACE WITH CLEAN GRAVELLY COARSE SAND AS NEEDED TO MAKE GRADES GRAVELLY COARSE SAND PLACE 12" THICKNESS OF 1 1/2" CLEAN CRUSHED STONE ALONGSIDE & 6" UNDERNEATH PERIMETER OF CONCRETE CHAMBER UNITS 07\_1800058102859 CONCRETE CHAMBER DETAIL (no scale) 237 Page 3 of 3 HHE-200 Rev. 8/01 SE# Site Eyduator Signature

#### Maine Dept. Health & Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Div of Environmental Health . 11 SHS (207) 287-5672 Fax: (207) 287-4172 PROPERTY LOCATION >> CAUTION: LPI APPROVAL REQUIRED << City, Town, BALDWIN or Plantation Street or Road 2 UPPER TWAIN ROAD Date Permit Issued \_\_\_\_ Subdivision, Lot# Local Plumbing Inspector Signature LPI # OWNER/APPLICANT INFORMATION □ Owner □ Town □ State Name (last, first, MI) NATURE'S WILDERNESS RESORT Applicant The Subsurface Wastewater Disposal System shall not be installed until a c/o SCOTT EFRON Permit is issued by the Local Plumbing Inspector: The Permit shall Mailing Address of authorize the owner or installer to install the disposal system in accordance 2 UPPER TWAIN ROAD BALDWIN, ME 04091 Owner/Applicant with this application and the Maine Subsurface Wastewater Disposal Rules. Daytime Tel.# 207-787-6012 Municipal Tax Map # CAUTION: INSPECTION REQUIRED OWNER OR APPLICANT STATEMENT I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. Local Plumbing Inspector to deny a Permit. (1st) date approved Signature of Owner or Applicant Date Local Plumbing Inspector Signature (2nd) date approved PERMIT INFORMATION TYPE OF APPLICATION THIS APPLICATION REQUIRES **DISPOSAL SYSTEM COMPONENTS** 1. First Time System 1. Complete Non-engineered System 1. No Rule Variance 2. Primitive System (graywater & alt. toilet) 2. Replacement System 2. First Time System Variance 3. Alternative Toilet, specify:\_\_\_\_\_ a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval Type replaced: 4. Non-engineered Treatment Tank (only) . 5. Holding Tank, \_\_\_ \_\_ gallons . Year installed: 3. Replacement System Variance 6. Non-engineered Disposal Field (only) 3. Expanded System a. <25% Expansion b. ≥25% Expansion Local Plumbing Inspector Approval State & Local Plumbing Inspector Approval 7. Separated Laundry System 8. Complete Engineered System (2000 gpd or more) Experimental System 9. Engineered Treatment Tank (only) 4. Minimum Lot Size Variance 10. Engineered Disposal Field (only) 5. Seasonal Conversion Seasonal Conversion Permit 11. Pre-treatment, specify: SIZE OF PROPERTY DISPOSAL SYSTEM TO SERVE 12. Miscellaneous Components 750 GALLON GREASE TRAP 1. Single Family Dwelling Unit, No. of Bedrooms: TYPE OF WATER SUPPLY 301.08+/-2. Multiple Family Dwelling, No. of Units: PROPOSED 3. Other: 25 SEAT RESTAURANT 1. Drilled Well 2. Dug Well 3. Private SHORELAND ZONING 4. Public 5. Other Yes No Current Use Seasonal Year Round Undeveloped DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3) **DESIGN FLOW DISPOSAL FIELD TYPE & SIZE** TREATMENT TANKS **GARBAGE DISPOSAL UNIT** 351 gallons per day 1. Stone Bed 2. Stone Trench 1. Concrete 1. No 2. Yes 3. Maybe H-20 3. Proprietary Device BASED ON: a. Regular If Yes or Maybe, specify one below: b. Low Profile RATED 1. Table 4A (dwelling unit(s)) a. cluster array a. cluster array c. Linear b. regular load d. H-20 load a. multi-compartment tank 2. Table 4C(other facilities) 2. Plastic tanks in series SHOW CALCULATIONS for other facilities 4. Other: 3 Other c. increase in tank capacity -25 SEAT RESTAURANT-SIZE: \_ 1280 sq. ft. lin. ft. CAPACITY: 1000 GAL d. Filter on Tank Outlet 3 MEALS PER DAY, PAPER SERVICE 7 GPD/SEAT (USING 1.8 MULTIPLIER) = 315 GPD 3 EMPLOYEES AT 12 GPD/EMPLOYEE 20 CONCRETE CHAMBERS & GREASE FILTER ON GREASE TRAP & 750 GAL. GREASE TRAP SOIL DATA & DESIGN CLASS DISPOSAL FIELD SIZING 315 + 36 = 351 GPD **EFFLUENT/EJECTOR PUMP** Section 4G (meter readings) PROFILE CONDITION 1. Not Required ATTACH WATER METER DATA SEE NOTE C 1. Medium---2.6 sq. ft. / gpd LATITUDE AND LONGITUDE 2. May Be Required ON PAGE 3 at Observation Hole #TP 1 at center of disposal area 2. Medium---Large 3.3 sq. f.t / gpd 3. Required d 49 m 43 Depth 30 " 3. Large---4.1 sq. ft. / gpd 70 d 44 m 43 Specify only for engineered systems: of Most Limiting Soil Factor if g.p.s, state margin of error: 4. Extra Large-5.0 sq. ft. / gpd DOSE: \_ gallons SITE EVALUATOR STATEMENT 8/30/18 (date) I completed a site evaluation on this property and state that the data reported are accurate and certify that on that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241). 237 Site Evaluator Signature JAMES LOGAN 207-693-8799 longviewpartners213@gmail.com Site Evaluator Name Printed Telephone Number E-mail Address

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

Page 1 of 3

#### Department of Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165 Town, City, Plantation Street, Road, Subdivision Owner's Name BALDWIN 2 UPPER TWAIN ROAD NATURE'S WILDERNESS RESORT SITE PLAN Scale ft. or as shown 100 SITE LOCATION PLAN (map from Maine Atlas 750 GALLON recommended) GREASE TRAP **PROPOSED** PPER TWAIN ROAD FOR SINK 25 SEAT RESTAURANT BLACK ROAD 1000 GALLON SITE SEPTIC TANK FOR TOILET DRAINS MARSTONS ROAD **PROPOSED** DISPOSAL FIELD PROPERTY BOUNDARY INFORMATION PER EXISTING CONDITIONS PLAN BY TERRADYN CONSULTANTS, LLC **VERIFY ACCURATE PROPERTY LINES** IN FIELD PRIOR TO CONSTRUCTION TO ASSURE SETBACKS SHOWN MAJOR WATERCOURSE PROPOSED ERP: NAIL 23" ABOVE DISPOSAL BASE OF 10" DIA. FIELD FOR FLAGGED HEMLOCK **RV SITES** SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above) ☐ Boring Observation Hole TP 1 Test Pit Observation Hole ☐ Boring Test Pit " Depth of Organic Horizon Above Mineral Soil " Depth of Organic Horizon Above Mineral Soil SOIL TEST PIT BY BACKHOE Consistency Color Mottling Texture Mottling Consistency 0 0 SANDY Depth Below Mineral Soil Surface (inches) Soil Surface (inches) LOAM & LOAMY VARIABLE SAND (FILL) **BROWN** DARK YELLOWISH STONY FRIABLE SANDY BROWN LOAM Depth Below Mineral 30 **COMMON FAINT** SOMEWHAT COMMON OLIVE STONY FIRM TO DISTINCT BROWN LOAMY FIRM SAND 50 50 Soil Classification FILL OVER Slope Limiting [X] Ground Water Soil Classification Slope Limiting [ ] Ground Water Factor ] Restrictive Layer [ ] Restrictive Layer Factor 1-2 % [ ] Bedrock ] Bedrock 30 Profile Condition [ ] Pit Depth Condition Profile Pit Depth Page 2 of 3 237 HHE-200 Rev. 8/01 Site Evaluator Signature SE#

## SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town, City, Plantation

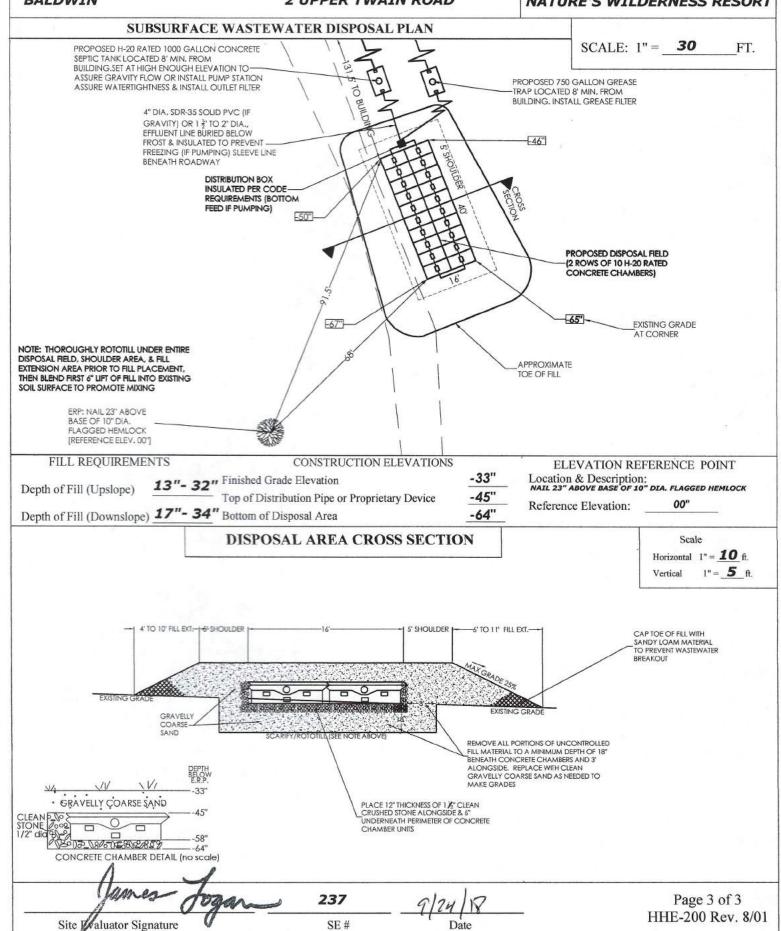
Street, Road, Subdivision

Department of Human Services Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165

Owner's Name

BALDWIN 2 UPPER TWAIN ROAD

NATURE'S WILDERNESS RESORT



#### Maine Dept.Health & Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Div of Environmental Health . 11 SHS (207) 287-5672 Fax: (207) 287-4172 PROPERTY LOCATION >> CAUTION: LPI APPROVAL REQUIRED << City, Town. BALDWIN or Plantation Town/City\_ Street or Road 2 UPPER TWAIN ROAD Date Permit Issued Subdivision, Lot# Local Plumbing Inspector Signature LPI # OWNER/APPLICANT INFORMATION Owner Down State Name (last, first, MI) NATURE'S WILDERNESS RESORT Applicant The Subsurface Wastewater Disposal System shall not be installed until a c/o SCOTT EFRON Permit is issued by the Local Plumbing Inspector: The Permit shall Mailing Address of authorize the owner or installer to install the disposal system in accordance 2 UPPER TWAIN ROAD BALDWIN, ME 04091 Owner/Applicant with this application and the Maine Subsurface Wastewater Disposal Rules. Daytime Tel.# Municipal Tax Map # Lot # 207-787-6012 CAUTION: INSPECTION REQUIRED OWNER OR APPLICANT STATEMENT I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. Local Plumbing Inspector to deny a Permit. (1st) date approved Signature of Owner or Applicant Local Plumbing Inspector Signature (2nd) date approved PERMIT INFORMATION TYPE OF APPLICATION THIS APPLICATION REQUIRES **DISPOSAL SYSTEM COMPONENTS** 1. Complete Non-engineered System 1. No Rule Variance 1. First Time System 2. Primitive System (graywater & alt. toilet) 2. Replacement System 2. First Time System Variance Alternative Toilet, specify: Local Plumbing Inspector Approval State & Local Plumbing Inspector Approval Type replaced: 4. Non-engineered Treatment Tank (only) Year installed: · 5. Holding Tank, \_ \_ gallons . 3. Replacement System Variance Expanded System a. <25% Expansion b. >25% Expansion 6. Non-engineered Disposal Field (only) a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval 7. Separated Laundry System 8. Complete Engineered System (2000 gpd or more) 4. Experimental System 9. Engineered Treatment Tank (only) 4. Minimum Lot Size Variance 5. Seasonal Conversion 10. Engineered Disposal Field (only) 5. Seasonal Conversion Permit 11. Pre-treatment, specify: SIZE OF PROPERTY DISPOSAL SYSTEM TO SERVE 12. Miscellaneous Components 1. Single Family Dwelling Unit, No. of Bedrooms: SQ. FT. TYPE OF WATER SUPPLY 301.08+/-2. Multiple Family Dwelling, No. of Units: PROPOSED 3. Other: CAMPGROUND-14 RV SITES 1. Drìlled Well 2. Dug Well 3. Private SHORELAND ZONING (specify) 4. Public 5. Other Yes No Current Use Seasonal Year Round Undeveloped DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3) 1050 DESIGN FLOW **DISPOSAL FIELD TYPE & SIZE** TREATMENT TANKS GARBAGE DISPOSAL UNIT gallons per day 1. Concrete Stone Bed Stone Trench 1. No 2. Yes 3. Maybe H-20 BASED ON: a. Regular 3. Proprietary Device If Yes or Maybe, specify one below: b. Low Profile RATED a. cluster array c. Linear b. regular load d. H-20 load a. cluster array 1. Table 4A (dwelling unit(s)) a. multi-compartment tank 2. Table 4C(other facilities) 2. Plastic tanks in series SHOW CALCULATIONS for other facilities 4. Other: 3. Other: c. increase in tank capacity -CAMPGROUND-3840 sq. ft. lin. ft. CAPACITY: 2000 d. Filter on Tank Outlet 14 RV SITES (WITH WATER & SEWER AT 60 CONCRETE CHAMBERS (OR 2-1000's) EACH SITE) AT 75 GALLONS PER DAY/SITE 14 X 75 = 1050 GPD SOIL DATA & DESIGN CLASS DISPOSAL FIELD SIZING **EFFLUENT/EJECTOR PUMP** 3. Section 4G (meter readings) PROFILE CONDITION 1. Not Required ATTACH WATER METER DATA D 1. Medium---2.6 sq. ft. / gpd LATITUDE AND LONGITUDE 2. May Be Required at Observation Hole #TP 14 at center of disposal area 2. Medium---Large 3.3 sq. f.t / gpd 3. Required d 49 m Depth 11 " 3. Large---4.1 sq. ft. / gpd 70 d 44 Specify only for engineered systems: m 39 of Most Limiting Soil Factor if g.p.s, state margin of error: 4. Extra Large---5.0 sq. ft. / gpd DOSE: gallons SITE EVALUATOR STATEMENT 8/30/18 (date) I completed a site evaluation on this property and state that the data reported are accurate and certify that on that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241). 237 Evaluator Signature Date JAMES LOGAN 207-693-8799 longviewpartners213@gmail.com Site Evaluator Name Printed Telephone Number E-mail Address Note: Changes to or deviations from the design should be confirmed with the Site Evaluator. Page 1 of 3

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## SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town, City, Plantation Street, Road, Subdivision

Department of Human Services Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165

Owner's Name

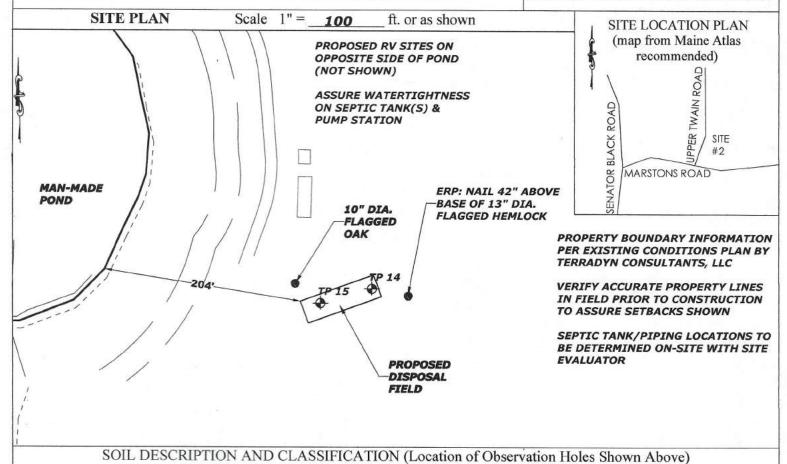
BALDWIN

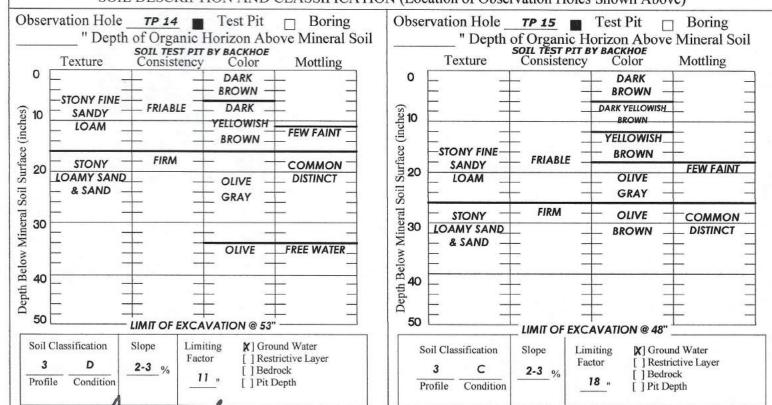
2 UPPER TWAIN ROAD

NATURE'S WILDERNESS RESORT

Page 2 of 3

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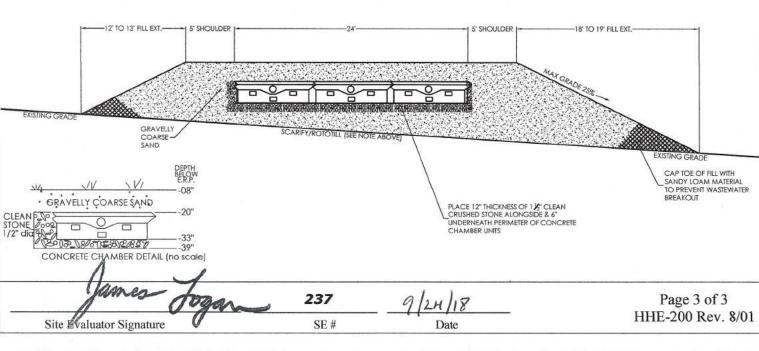


237

SE#

Site Evaluator Signature

#### Department of Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165 Town, City, Plantation Street, Road, Subdivision Owner's Name BALDWIN 2 UPPER TWAIN ROAD NATURE'S WILDERNESS RESORT SUBSURFACE WASTEWATER DISPOSAL PLAN SCALE: 1" = 30 FT. NOTE: THOROUGHLY ROTOTILL UNDER ENTIRE DISPOSAL FIELD, SHOULDER AREA, & FILL PUMP STATION SIZED PER EXTENSION AREA PRIOR TO FILL PLACEMENT, BOTTOM FEED DISTRIBUTION MANUFACTURER'S REQUIREMENTS FOR THEN BLEND FIRST 6" LIFT OF FILL INTO EXISTING BOX INSULATED PER CODE FRICTION/HEAD LOSS WITH RISER & SOIL SURFACE TO PROMOTE MIXING REQUIREMENTS COVER.. ASSURE WATERTIGHTNESS. PROPOSED H-20 RATED 2000 GALLON CONCRETE SEPTIC TANK (OR 2-1000 GALLON TANKS) LOCATED 8' MIN. FROM BUILDING ASSURE WATERTIGHTNESS & INSTALL OUTLET FILTER 10" DIA. FLAGGED OAK 0 -47" ERP: NAIL 42" ABOVE BASE OF 13" DIA. FLAGGED HEMLOCK PROPOSED DISPOSAL FIELD [REFERENCE ELEV. 00"] (3 ROWS OF 20 H-20 RATED 4" DIA. SDR-35 CONCRETE CHAMBERS) SOLID PVC -55" CROSS SECTION **EXISTING GRADE** AT CORNER APPROXIMATE -55" TOE OF FILL FILL REQUIREMENTS CONSTRUCTION ELEVATIONS ELEVATION REFERENCE POINT 38"- 39" Finished Grade Elevation -08" Location & Description: NAIL 42" ABOVE BASE OF 13" DIA. FLAGGED HEMLOCK Depth of Fill (Upslope) Top of Distribution Pipe or Proprietary Device -20" 00" Reference Elevation: Depth of Fill (Downslope) 47" -39" Bottom of Disposal Area DISPOSAL AREA CROSS SECTION Scale Horizontal 1" = 10 ft. 1" = 5 ft. Vertical -12' TO 13' FILL EXT.---4 5' SHOULDER 5' SHOULDER -18° TO 19° FILL EXT. EXISTING GRADE GRAVELLY SCARIFY/ROTOTILL (SEE NOTE ABOV



## TRAFFIC IMPACT STUDY

**FOR** 

**PROPOSED** 

# Nature's Wilderness Campground

Prepared For: Mr. Scott Efron Prepared By:/// Bray, P.E.

para ber 2018

#### INTRODUCTION

Mr. Scott Efron is proposing to develop a 250-site campground on several hundred acres of land located in the general vicinity of Lower and Upper Ponds in the Town of Baldwin. The proposed project, Nature's Wilderness Campground, will include a mix of RV, tent, cabins and "glamping" sites. Proposed amenities include: swimming, fishing, hiking, mountain biking, etc. The campground is directly accessed from Marstons Road and other local gravel roads including Upper Twain Road and a portion of Deacon Road.

The purpose of this study is to examine existing traffic conditions in the general vicinity of the proposed project, estimate the total number of site trips generated by the project and, make a determination as to whether the existing transportation system can safely accommodate the added traffic demand generated by the project.

#### **EXISTING CONDITIONS**

Existing Design Hour Traffic: Manual turning movement counts were conducted at the following intersections during the month of October 2017 in the afternoon of a weekday and mid-day on Saturday:

- Senator Black Road (N) @ SR 113 (Saturday, October 14 & Monday, October 16)
- Senator Black Road (S) @ SR 113 (Saturday, October 21 & Monday, October 23)
- SR 113 @ SR 5/117 (aka Depot Road) (Saturday, October 28 & Wednesday, October 25)
- Senator Black Road @ Marstons Road (Saturday, October 21 & Tuesday, October 24)

All traffic entering and exiting each intersection were recorded in 15-minute intervals between 2:00 and 6:00 PM weekdays and, again, between 11:00 AM and 3:00PM on Saturday (A copy of the traffic data is attached as an appendix to the report). From a summary of the data, peak hour times were established for each location and day of week. Generally, the weekday afternoon peak hour occurred between 4:30 and 5:30 PM at each intersection except Senator Black Road @ Marstons Road, which occurred much earlier in the day between 2:45 and 3:45 PM. The Saturday peak hour falls between 11:00 AM and 12:00 PM at both Senator Black Road/ME 113 intersections; 11:15 AM – 12:15 PM at Marstons Road and Senator Black Road and between 12:45 and 1:45 PM at the SR. 113 @ SR. 5/117 intersection.

Traffic data collected during time periods other than the summer months of July and August require adjustment to reflect "peak" travel conditions. MaineDOT provides factors for adjusting traffic data collected during other periods of time. MaineDOT utilizes highway classifications of I, II, or III for all State and Local roadways. Group I roadways are defined as urban roadways or those roads that typically see commuter traffic and experience little fluctuation from week to week throughout the year. Group II roadways or arterial roads are those that see a combination of commuter and recreational traffic and, therefore, experience moderate fluctuations during the year. Group III roads or recreational roadways are typically used for recreational purposes and experience significant seasonal fluctuations. MaineDOT has designated the noted sections of both SR 113 and SR 5/117 Group II roadways and Senator Black Road a Group I roadway. MaineDOT's standards for a Group II roadway requires a seasonal adjustment of 1.22 to approximate "peak" summer travel conditions. The 2017 design hour traffic forecast for the study intersections are illustratively presented on Figure 1.

Roadway Safety Conditions: MaineDOT's Accident Records Section provided the latest three-year (2015 through 2017) crash data for the sections of SR 113 (aka Pequawket Trail) between both ends of Senator Black Road and the section of Marstons Road between Senator Black Road and Brown Road. MaineDOT's report is presented as follows:

#### 2015 -2017 Traffic Accident Summary

Location	Total Crashes	Critical Rate Factor
Pequawket Trail @ Depot Road	6	2.15
2. Pequawket Trail @ Senator Black Road (N)	0	0
3. Pequawket Trail @ Senator Black Road (S)	0	0
4. Pequawket Trail btw. Senator Black Road (S) and Rocky Dunn Road	3	0.44
5. Pequawket Trail btw. Rocky Dunn Road and Depot Road	6	0.49
6. Pequawket Trail btw. Depot Road and Chase Road	3	0.29
7. Pequawket Trail btw. Chase Road and Senator Black Road (N) and Hamlin Road	3	0.30
8. Senator Black Road btw. both ends of Pequawket Trail	0	0
9. Marstons Road btw. Senator Black Road and Brown Road	0	0

The MaineDOT considers any roadway intersection or segment a high crash location if both of the following criteria are met:

- 8 or more accidents
- A Critical Rate Factor greater than 1.00

As the data presented in the table shows, the incidence of traffic crashes does not meet MaineDOT's threshold criteria for identification of a high crash location.

#### SITE TRAFFIC

**Site Trip Generation:** Trip generation was determined for the proposed Nature's Wilderness Campground project based upon trip tables presented in the seventh edition of the Institute of Transportation Engineers (ITE) "TRIP GENERATION" handbook. The following trip rates were used in that effort:

## Land-Use Code 416 - Campground/Recreational Vehicle Park

Weekday Street Peak Hour - AM Peak	= 0.20 trips/campsite
Weekday Street Peak Hour - PM Peak	= 0.37 trips/campsite
Weekday Peak Hour of Site - AM Peak	= 0.22 trips/campsite
Weekday Peak Hour of Site - PM Peak	= 0.41 trips/campsite
Saturday Peak Hour	$= 0.55 \text{ trips/campsite}^{-1}$

(1) NOTE: Saturday peak hour trip rate estimated based upon comparative trips rates presented for Land-Use Code #417 Regional Park. The trip rate for a typical Saturday peak hour for the noted regional park land-use is approximately 35% greater than the trip rate provided for the weekday PM peak hour of the site.

Accordingly, the proposed 250 campsite Nature's Wilderness Campground project can be expected to generate a total of 50 trips in the weekday morning peak hour of the street; 93 trips in the weekday evening peak hour of the street; 55 and 103\_trips during the weekday morning and evening peak hours of the site, respectively, and approximately 139 trips on a typical summer Saturday peak hour.

NOTE: all further analysis was completed for the weekday PM peak hour of the site and Saturday peak hour conditions, which represent the two time periods with the highest volumes of site trip generation.

**Site Trip Distribution:** The Institute of Transportation Engineers handbook provides the following directional distribution rates for a Campground/Recreational Vehicle Park for both the weekday PM peak hour of the site and Saturday peak hour time periods:

## Land-Use Code 416 - Campground/Recreational Vehicle Park

Weekday Peak Hour of Campground—PM Peak Saturday Peak Hour = 62% enter site/38% exit site = 48% enter site/52% exit site (1)

(1) NOTE: Saturday peak hour trip distribution percentages derived from Land-Use Code # 417 Regional Park.

Based upon the noted directional distribution patterns, 64 trips during the weekday PM peak hour of the site and 67 trips in the Saturday peak hour will enter the site and the remaining trips (39 Weekday PM Peak Hour trips and 72 Saturday peak hour trips) will exit the site.

Vehicle Trip Composition: This report has assumed all vehicle trips generated by the proposed project are "primary" or "new" vehicle trips to the area street network.

Vehicle Trip Assignment: Peak hour site trips generated by the proposed Nature's Wilderness Campground project were assigned to the adjacent roadway system based upon existing directional travel patterns as follows:

Depot Road = 25% SR 113 South = 40% SR 113 North = 35%

Figure 2 is a "stick" diagram that presents the assignment of the site trips to the study intersections.

#### **FUTURE TRAFFIC**

Annual Growth: Mr. Scott Efron anticipates the proposed Nature's Wilderness Campground project will be fully developed by 2021. MaineDOT's historical traffic data for three traffic count stations on State Route 113 (#35908, 36304, and 36308) in the general vicinity of Senator Black Road show a relative robust growth of average annual daily traffic (AADT) volume between the years of 2013 and 2016. The combined AADT volume of the three count stations in 2013 was 10,380 vehicles and the estimated AADT volumes in 2016 were 11,860 vehicles, an increase of 14.3%. To conservatively estimate future travel conditions at the study intersections, the 2017 design hour traffic volumes were increased by an annual growth rate of 1.048 per year to project 2021 travel conditions.

2021 Pre-Development Traffic for the study intersections are presented on Figure 3.

**2021 Post-Development Traffic:** 2021 Post-Development traffic forecasts were prepared for the study intersections by combining the 2021 pre-development travel forecasts illustrated on Figure 3 with the estimated site generated trips highlighted on Figure 2. Figure 4 presents the estimated 2021 post-development traffic forecasts for the proposed Nature's Wilderness Campground project.

#### **MOBILITY ANALYSIS**

Capacity analyses of both 2021 Pre- and Post-Development traffic conditions were performed utilizing the Synchro and SimTraffic computer models. Level of Service rankings are similar to the academic grading system, where an "A" is very good with little delay and "F" represents very poor conditions. The following table summarizes the relationship between delay and Level of Service for an unsignalized intersection:

#### Level of Service Criteria for Unsignalized Intersections

Level of Service	Total Control Delay
	(sec/veh)
A	Up to 10.0
В	10.1 to 15.0
C	15.1 to 25.0
D	25.1 to 35.0
E	35.1 to 50.0
F	Greater than 50.0

The results of the capacity analyses are presented in the following table:

<u>Level of Service Summary</u> 2021 Pre- and Post-Development Conditions

	202	21 Pre-De	evelopmen	t	20:	21 Post-D	evelopmen	t
	Weekda Peak I		Saturda Ho		Weekda Peak I	# 151555610 U	Saturda; Hot	
Intersection/Approach	Delay (sec.)	LOS	Delay (sec.)	LOS	Delay (sec.)	LOS	Delay (sec.)	LOS
SR 113 @ Senator Black Rd. (N)							About Sumals	
- SR 113 NB	1 sec.	A	1 sec.	A	1 sec.	A	1 sec.	A
- SR 113 SB	1 sec.	A	1 sec.	A	1 sec.	A	1 sec.	A
- Senator Black Road WB	5 sec.	A	6 sec.	A	5 sec.	A	6 sec.	A
- Overall Intersection	1 sec.	A	1 sec.	A	1 sec.	A	1 sec.	A
SR 113 @ Senator Black Rd. (S)								
- SR 113 NB	1 sec.	A	1 sec.	A	1 sec.	A	1 sec.	A
- SR 113 SB	1 sec.	A	1 sec.	A	1 sec.	A	1 sec.	A
<ul> <li>Senator Black Road WB</li> </ul>	4 sec.	A	6 sec.	A	7 sec.	A	8 sec.	A
- Overall Intersection	1 sec.	A	1 sec.	A	1 sec.	A	2 sec.	A
SR 113 @ Depot Road								
- SR 113 NB	2 sec.	A	2 sec.	A	2 sec.	A	3 sec.	A
- SR 113 SB	1 sec.	A	2 sec.	A	1 sec.	A	2 sec.	A
- Depot Rd. EB .	7 sec.	A	8 sec.	A	7 sec.	A	9 sec.	A
- Overall Intersection	3 sec.	A	4 sec.	A	3 sec.	A	4 sec.	A

Each of the three unsignalized study intersections, highlighted in the preceding table, operate overall at the highest or "best" level of service under both 2021 Pre- and Post-Development travel conditions.

## VEHICLE SIGHT DISTANCE

Vehicle sight distance information will be provided under separate cover at a later date.

#### AUXILIARY LANE WARRANT ANALYSIS

The Maine Department of Transportation has published warrants for auxiliary left-turn lanes in their December 2004 Highway Design Manual. The warrants are predicated upon the volume of two-way traffic traveling on the designated highway; the volume of left-turning vehicles from the principal roadway to the minor roadway and the posted speed limit of the principal roadway. Each of the three study intersections located on State Route 113 were evaluated based upon projected 2021 post-development travel conditions. The following detail was applied in completing the analysis:

## State Route 113 @ Senator Black Road (North) Intersection

Posted Speed Limit of SR 113 = 40mph

MaineDOT's Chart Reference (Figure 8-19)

## Chart Inputs:

 Weekday PM Peak Hour
 Saturday Peak Hour

 Va
 = 220

 Vo
 = 246

 Vo
 = 439

 Lt%
 = 11.8%

 Lt%
 = 10.1%

#### State Route 113 @ Depot Road

Posted Speed Limit of SR 113 = 50mph

MaineDOT's Chart Reference (Figure 8-18)

## Chart Inputs:

Weekday l	PM Peak Hour	Saturday	Peak Hour
Va	= 226	Va	= 234
Vo	= 198	Vo	= 292
Lt%	= 34.0%	Lt%	=32.0%

## State Route 113 @ Senator Black Road (South) Intersection

Posted Speed Limit of SR 113 = 55mph

MaineDOT's Chart Reference (Figure 8-17)

## Chart Inputs:

Weekday I	PM Peak Hour	Saturday	Peak Hour
Va	= 286	Va	= 281
Vo	= 276	Vo	= 503
Lt%	= 8.0%	Lt%	= 7.8%

Copies of the respective charts with the superimposed traffic values are attached as an appendix to the report.

The analysis demonstrates that projected "build" travel conditions do not warrant or require consideration of a left-turn treatment at any of the three study intersections.

## CONCLUSIONS/RECOMMENDATIONS

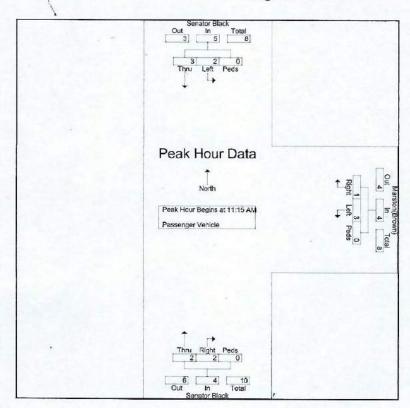
- The proposed Nature's Wilderness Campground project can be expected to generate a total of 103 vehicle trips during a typical weekday PM peak hour of the proposed site and a slightly greater volume of 139 vehicle trips in a Saturday peak hour.
- MaineDOT's Traffic Safety Bureau's latest three-year (2015 through 2017) safety report for the section of State Routes 113 between both intersections with Senator Black Road; the full length of Senator Black Road and the section of Marston Road between Senator Black Road and Brown Road shows the incidence of traffic crashes and corresponding critical rate factors at each identified intersection and road segment do not meet MaineDOT's threshold criteria for identification of a high crash location.

- Peak hour traffic generated by the proposed Nature's Wilderness Campground project has very minimal
  impact on traffic operations at each of the three study intersections along State Route 113. Each intersection,
  under both 2021 pre- and post-development traffic loadings is projected to operate at the highest or "best"
  level of service (Level of Service A) with very low levels of vehicle delay.
- The results of the auxiliary lane warrant analysis completed for each study intersection under forecast 2021
  post-development traffic loadings demonstrates a dedicated left-turn lane is not warranted at any of the three
  study intersections.
- The proposed Nature's Wilderness Campground project is projected to generate in excess of 100 passenger
  car equivalent trips during both the weekday PM peak hour of the street and the proposed site and during a
  typical Saturday peak hour; accordingly, the proposed project must file for and receive a Maine Department
  of Transportation Traffic Movement Permit for the project.

Baldwin: Senator Black & Marston(Brown) Saturday October 21, 2017 Sunny

Count By: Patrick Frie

File Name: Baldwin Senator Black & Marstons(Brown) 102117 Site Code: 00102117 Start Date: 10/21/2017 Page No: 5



Baldwin: Senator Black & Marstons(Brown)
Tuesday October 24, 2017
Cloudy with ocassional mist
Count By: Dawn-Marie Fahey

File Name: Baldwin Senator Black & Marstons(Brown) 102417 Site Code: 01024171 Start Date: 10/24/2017 Page No: 5

		Route From N	Company of the Compan			Marston( From				Route From S			
Start Time	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Int. Total
Peak Hour Analysis From 02	:00 PM to 05:	45 PM - Pea	k 1 of 1			4.	-	100		100			
Peak Hour for Entire Intersec	tion Begins a	t 02:45 PM											
02:45 PM	1 1	0	0	1	0	0	0	0	4	1	0	5	6
03:00 PM	0	0	0	0	1	1	ō	2	1	n	0	1	3
03:15 PM	0	0	0	0	0	1	0	1	0	0	0	0	1
03:30 PM	0	1	0	1	0	1	o o	1	1	2	0	3	5
Total Volume	1	1	0	2	1	3	0	4	6	3	ő	q	15
% App. Total	50	50	0	- 30	25	75	0		66.7	33.3	ő		10
· PHF	.250	.250	.000	.500	.250	.750	.000	.500	.375	.375	.000	.450	.625

Senator Black Road

(North Int.)

5. R. 113

Baldwin:Senator Black & Rte 113 Loc#1

Monday October 16,2017

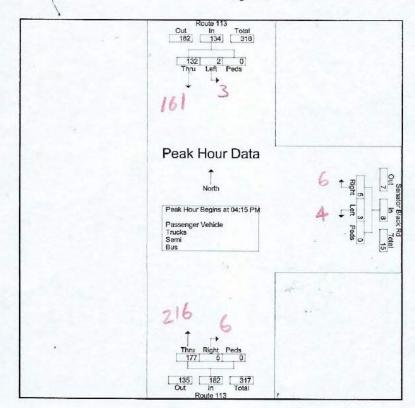
Cloudy

Count By: Dawn-Marie Fahey

File Name: Baldwin Senator Black & Route 113 Location #1 101617

Site Code : 01016171 Start Date : 10/16/2017

Page No : 6



Senator Black Road (North Int.)

5. R. 113

Baldwin:Senator Black Rd & Rte 113 Loc1

Saturday October 14, 2017

Sunny

Count By: Dawn-Marie Fahey

File Name: Baldwin Senator Black & Route 113 Location #1 101417

Site Code : 00101417 Start Date : 10/14/2017

Page No : 5

		Route From N				Senator E From				Route From S			
Start Time	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Int. Tota
Peak Hour Analysis From 11:			k 1 of 1	1/1/2	- W. W.	*.		- 11	- Miles				
Peak Hour for Entire Intersec	tion Begins a	t 11:00 AM											
11:00 AM	* 29	0	0	29	2	1	0	3	0 60 0				92
11:15 AM	44	1	0	45	0	1	0	1	0	109	0	109	155
11:30 AM	42	0	0	42	1	0	0	1	2	68	0	70	113
11:45 AM	35	0	0	35	0	2	0	2	2	57	0	59	96
Total Volume	150	. 1	0	151	3	4	0	7	4	294	0	298	458
% App. Total	99.3	0.7	0	100	42.9	57.1	0		1.3	98.7	0	-	
PHF	.852	.250	.000	.839	.375	.500	.000	.583	.500	.674	.000	.683	.735

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Baldwin: Depot Rd & Rte 113
Wednesday October 25, 2017
Cloudy with occasional mist
Count By: Dawn-Marie Fahey

File Name: Baldwin Depot & Route 113 Location 1012517

: 01025171

Page No

Site Code Start Date

105 93 93 395 940 Int. Total 33 29 29 25 110 App. Total Peds From West 22 21 19 14 76 65.5 .864 40 t 10 40 34.5 34.5 Right 37 39 35 35 App. Total 949 0 0 0 000 Peds 00 Route 113 From South Left Pe 49 49 33.1 Thru 23 26 29 21 21 86.9 853 N App. Total 762 00000000 Peds Start Time Right Thru Peds
Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 04:30 PM Route 113 From North 16 15 8 8 60 45.8 714 19 17 17 71 54.2 807 04:45 PM 05:00 PM 05:15 PM % App. Total PHF 04:30 PM Total Volume

Baldwin: Depot Rd & Route 113 Saturday October 28, 2017

Sunny Count By: Dawn-Marie Fahey

File Name: Baldwin Depot & Route 113 Location 1012817 Site Code: 01028171 Start Date: 10/28/2017 Page No: 5

		Route 113 From North	113 orth			Route 113 From South	113 outh	5		Depot Road From West	Road Vest		
Start Time	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 11:00 AM to 02:45 PM - Peak 1 of 1	1:00 AM to 02:	45 PM - Peal	k1 of 1										
Peak Hour for Entire Intersection Begins at 12:45 PM	ection Begins a	t 12:45 PM											
12:45 PM	24	29	0	53	25	14	0	39	16	30	0	46	138
01:00 PM	19	23	0	42	17	တ	0	26	13	7, 26	0	39	107
01:15 PM	29	28	0	22	30	7	0	37	15	21	0	36	130
01:30 PM	17	23	0	40	36	15	0	. 51	7	29	0	36	127
Total Volume	89	103	0	192	108	45	0	153	51	106	0	157	502
% App. Total	46.4	53.6	0		9.07	29.4	0		32.5	67.5	0		
HH	767	.888	000	.842	.750	.750	000	.750	797.	.883	000.	.853	606
	0,1	121			127	P.			13	521			
	51	9			1	?			20				

Senator Black Road
(South Int.)

6

5. R. 113

Baldwin: Senator Black & Rte 113 Loc2

Monday October 23, 2017

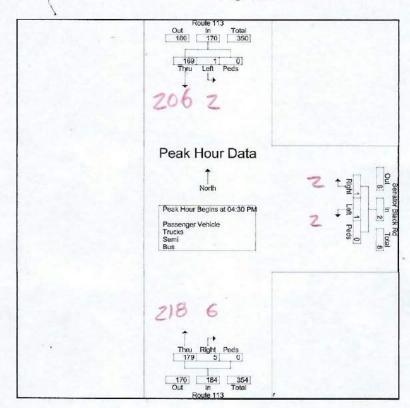
Cloudy

Count By: Dawn-Marie Fahey

File Name: Baldwin Senator Black & Route 113 Location #2 102417

Site Code : 01023171 Start Date : 10/23/2017

Page No : 6



Senator Black Road (South Int.) S.R. 113

Baldwin: Senator Black & Rte 113 Loc2

Saturday October 21, 2017

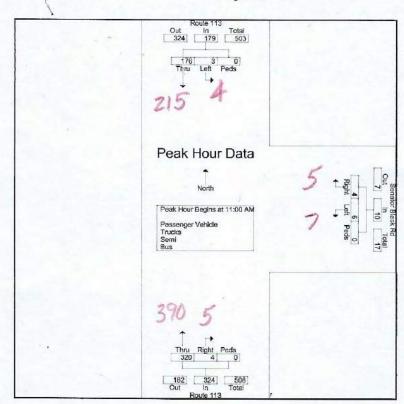
Sunny

Count By: Dawn-Marie Fahey

File Name: Baldwin Senator Black & Route 113 Location #2 102117

Site Code : 02102117 Start Date : 10/21/2017

Page No : 6

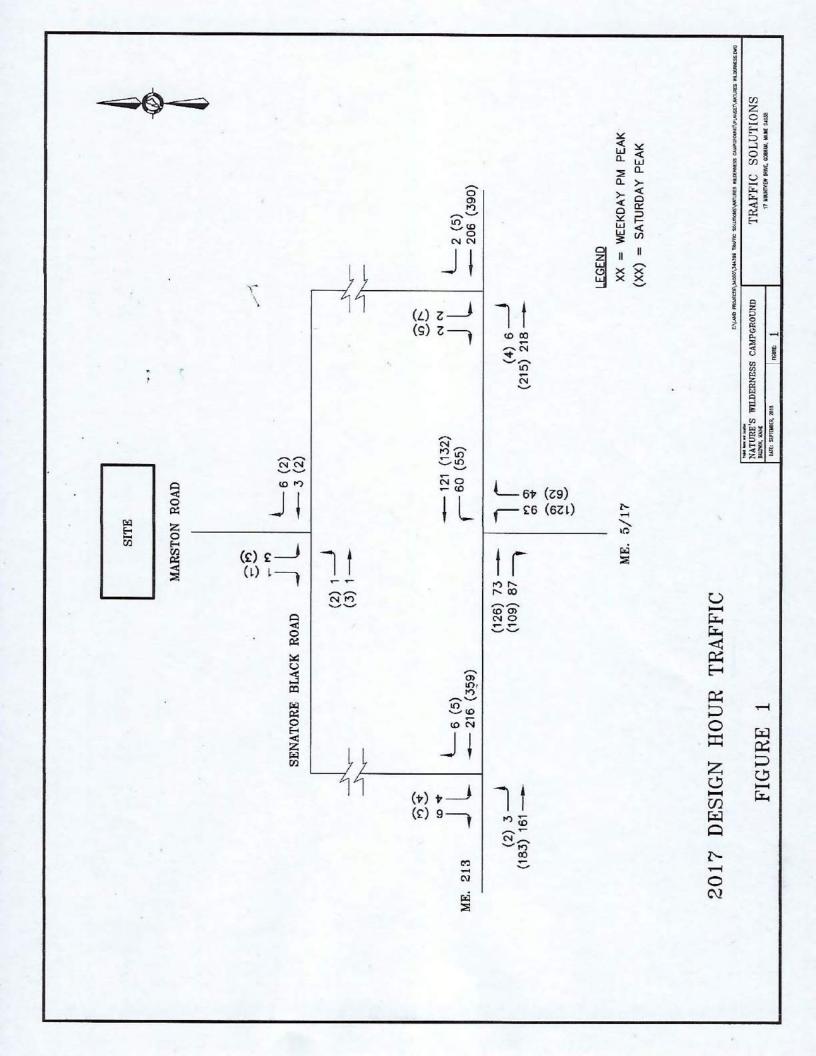


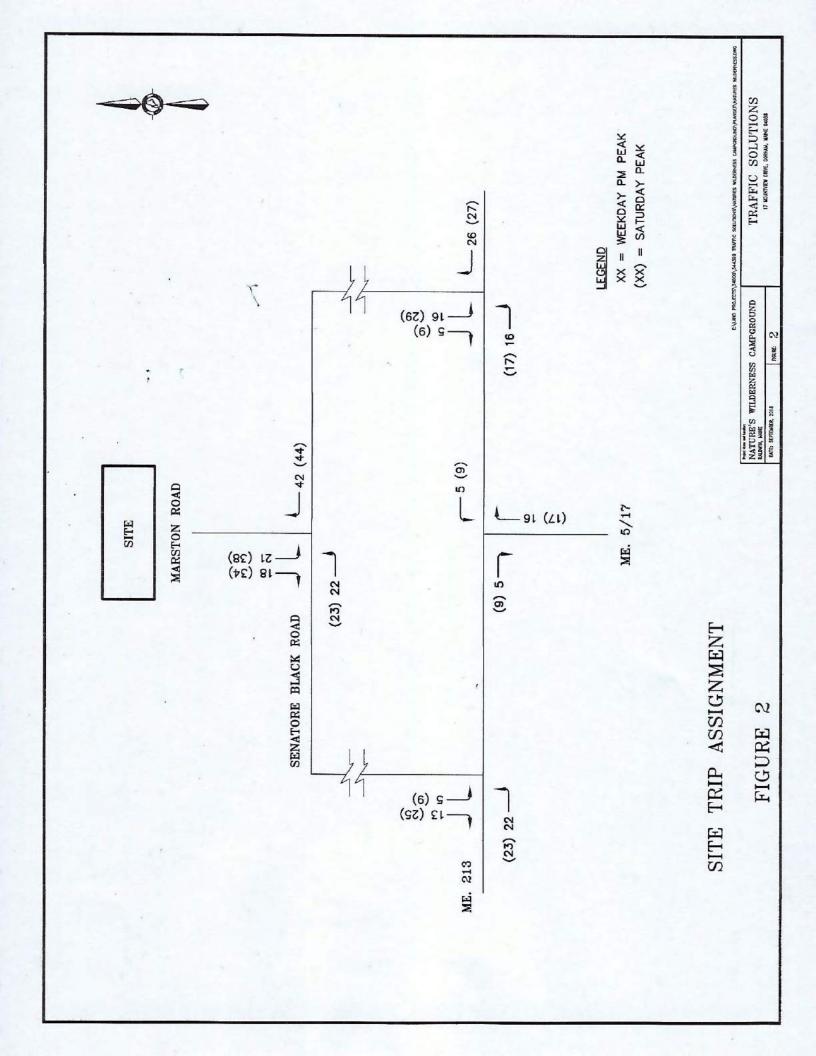
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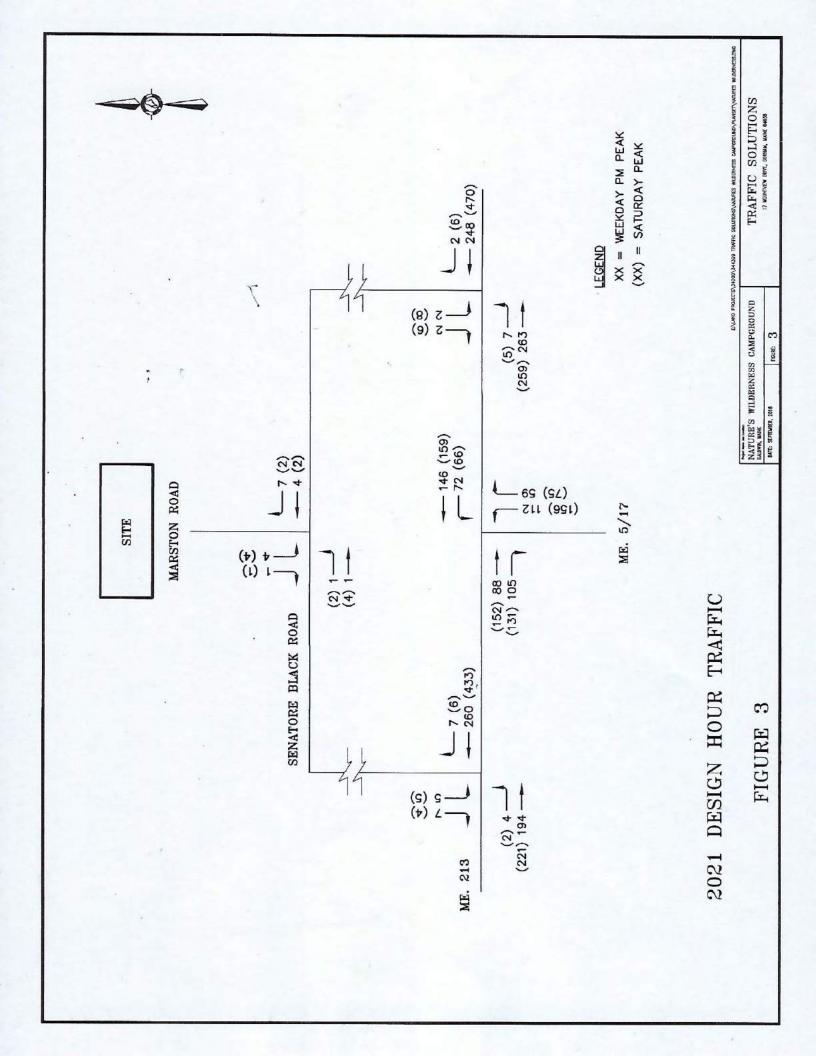
County

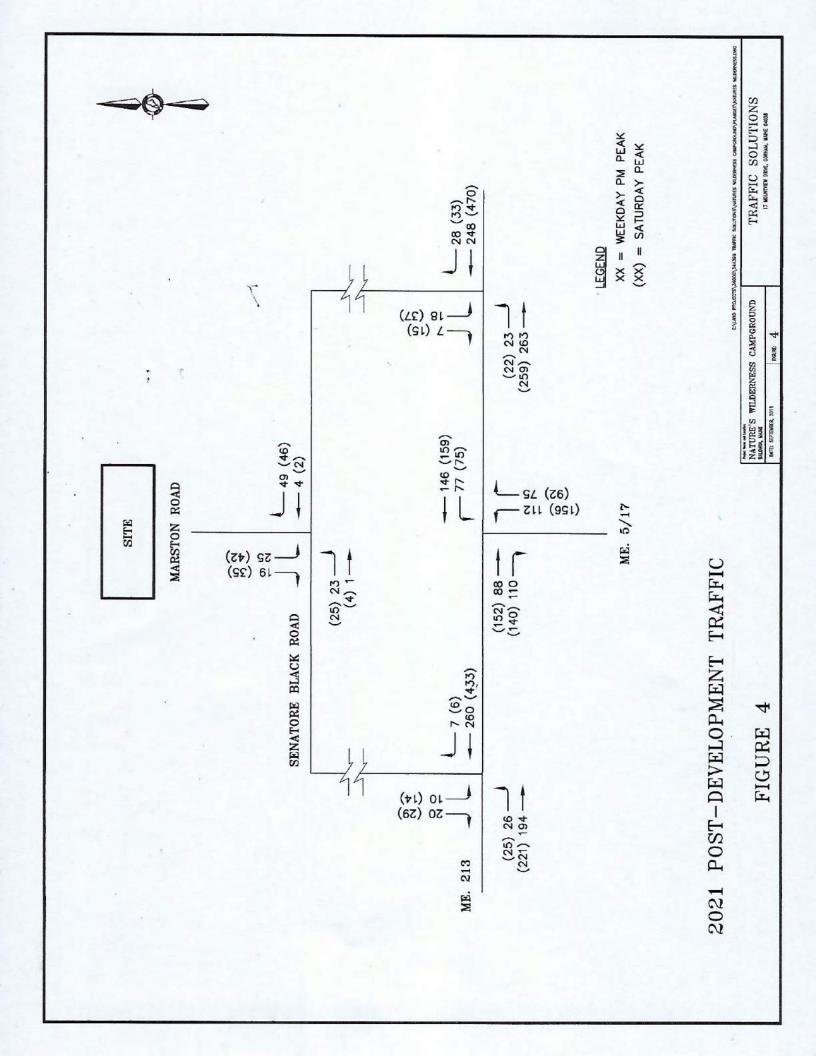
Cumberland TOWN	STA	ROAD-PN	LOCATION	GROUP	AADT12	AADT13	AADT14	AADT15	AADT16	AADT17
BALDWIN	40508	01729-6	IR 1729(SAND PD) NW/O SR 11/107(BRDGTN)	Ι	1	70 C	1		1	
BALDWIN	34808	05030-6	IR 503 (CRAWFORD) NW/O IR 624 @ BR# 2098	1	ı	1,	i	r	S 09	1
BALDWIN	36402	05030-6	IR 5030 (DOUGLAS HILL) NE/O SR 5/113/117	-		1	1	1	640 C	•
BALDWIN	71608	00620-6	IR 620 (MOUNTAIN RD) NW/O IR 627	1	•	160 C	•	21	•	
BALDWIN	86207	00624-6	IR 624 (DOUGLAS HILL) W/O IR 623@BR#5036	I	,	320 C		1	310 C	i
BALDWIN	71604	00627-6	IR 627 (CRAM RD) SE/O IR 626	Н	ì		,	1	180 C	1
BALDWIN	31203	00630-6	IR 630 (SEN. BLACK RD) E/O SR 5/113/117	-	ı			ı	140 C	1
BALDWIN	30098	00631-6	IR 631 (BROWN) NW/O SR 113 (PEQUAWET TR)	Н	ı	159 C	ì	1	150 C	
BALDWIN	71406	00635-6	IR 635 (PIGEON BK) SW/O SR 113 (E JCT)	H	•	250 C	Ť	r.	1	
BALDWIN	31107	9-98900	IR 636 (FREEMONT) W/O SR 11/107 (BRDGTN)	п	1	480 C	ì	,	620 C	1
BALDWIN	35801	0107X-5	SR 107(BRIDGTON) N/O SR11(SEBAGO)@BR5045	п	•	O 096	ı	,	1200 S	r
BALDWIN	35805	0011X-4	SR 11 S/O SR 107	П	,		•		2090 C	1
BALDWIN	35803	0011X-4	SR 11(SEBAGO RD) E/O SR 107 @ BR# 3693	П	•	810 C			1180 S	,
BALDWIN	31101	0011X-4	SR 11/107 (BRDGTON) N/O IR 636(FREEMONT)	П		1700 C	ì			,
BALDWIN	35901	0011X-4	SR 11/107 (BRIDGTON RD) N/O SR 113	П		1370 C	ı		1540 S	
BALDWIN	35904	0011X-4	SR 11/113 SE/O SR 11/107 @BR# 2694	П		4120 C	i		4700 C	1
BALDWIN	36007	0113X-4	SR 113 (PEQUAWET TR) W/O IR 631 (BROWN)	П	,	3460 C		ı	1	1
BALDWIN	35908	0113X-4	SR 113 (PEQUAWKET TR) NW/O SR 11/107	П		3380 C		ì	3300 C	1
BALDWIN	36304	0113X-4	SR 113 (REQUAWKET TR) SE/O SR 5/117	н		3190 C		1	3760 C	1
BALDWIN	36308	0005X-3	SR 5/113/117 (PEQUAWET TR) NW/O SR 5/117	П	•	3810 C			4800 C	1
BALDWIN	36500	0005X-3	SR 5/113/117 @ HIRAM TL	П					4040 C	•
BALDWIN	36206	0005X-3	SR 5/117 SW/O IR 634 @ CORNISH TL	П	1	3130 C			3530 C	į.
BALDWIN	36306	0005X-3	SR 5/117 SW/O IR 8126 (ROCKY DUNN RD)	П	1		,		3550 C	
BRIDGTON	07503	02033-6	BRICKYARD HILL RD E/O OLD ELM RD@BR#3607	Л ТП		110 C		1		i
BRIDGTON	04704	02033-6	BRICKYARD HILL RD SE/O SR 117	Ш		100 C		1		1
BRIDGTON	08103	00592-6	BURNHAM RD E/O SR 107 (S BRIDGTON RD)	I	ı	380 C				
BRIDGTON	08207	05028-6	BURNHAM RD W/O US 302 (ROOSEVELT TR)	_	i	410 C	•		470 C	•
BRIDGTON	06905	00572-6	CHADBOURNE HILL RD NE/O HIGHLAND RD	Ш		440 C	ì	•		
BRIDGTON	07307	00572-6	CHADBOURNE HILL RD W/O SR 37(N BRIDGTON)	Ш (		520 C	1	•	560 C	
BRIDGTON	00403	04028-6	CHURCH ST E/O S HIGH ST	III+III		580 C				•
BRIDGTON	01505	04028-6	CHURCH ST S/O US 302 (MAIN ST)	III+III	j	860 C				
BRIDGTON	03401	00582-6	CROSS ST N/O MAIN ST	Ш+Ш	,	200 C		ï		

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# Maine Department Of Transportation - Traffic Engineering, Crash Records Section

### Crash Summary Report

	✓1320 Summary			epc epc	ode
	1320 Private		7	☐ Exclude First Node	<ul><li>Exclude First Node</li><li>Exclude Last Node</li></ul>
Parameters	☐1320 Public,	C			
Report Selections and Input Parameters	✓Crash Summary II	Rd-North		Start Offset: 0 End Offset: 0	Start Offset: 0 End Offset: 0
Σ.	Section Detail	Rd-South to Senator Black Rd-I	REPORT PARAMETERS Year 2015, Start Month 1 through Year 2017 End Month: 12	Start Node: 15773 End Node: 15775	Start Node: 15775 End Node: 15777
	REPORT SELECTIONS  Crash Summary I	REPORT DESCRIPTION Baldwin Rte. 113 from Senator Black Rd-South to Senator Black	REPORT PARAMETERS Year 2015, Start Month 1 thr	Route: 0113X	Route: 0005X

Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Summary I

				Nodes										Day of the
Node	Route - MP	Node Description	U/R	U/R Total	=	İnj	Injury Crashes	shes		Percent	Annual M	Percent Annual M Grash Rate Critical	Critical	A S
				Crashes	Hes k	A	В	ပ	PD	Injury	C PD Injury Ent-Veh	2000	Rate	5
15774	0113X - 11.18	15774 0113X - 11.18 Int of PEQUAWKET TRL ROCKY DUNN RD	_	0		0	0	6	0	0.0	1.422 Stat	2 0.00 Statewide Crash Rate:	0.46	0.00
15773	0113X - 10.80	15773 0113X - 10.80 Int of PEQUAVIKET TRL SENATOR BLACK RD	ΔD 1	0	0	0	0	0	0	0.0	1.478 Stat	78 0.00 Statewide Crash Rate	0.46	0.00
15775	0113X - 12.03	15775 0113X - 12.03 Int of DEPOT RD PEQUAWKET TRL	-	9	3	0	2	7	7	2.99	2.248 Stat	0.89 ewide Crash Rate:	0.41	2.15
15776	. 0005X - 41.12	15776 0005X - 41.12 Int of CHASE RD PEQUAWKET TRL	₩.	0	0	0	0	0	0	0.0	1.784 Stat	34 0.00 Statewide Crash Rate:	0.44	0.00
15777	0005X - 41.64	15777 0005X - 41.64 Intof PEQUAWKET TRL SENATOR BLACK RD	Ď 1	0	0	0	0	0	0	0.0	1.756 Stat	6 0.00 Statewide Crash Rate:	0.13	0.00
Study Years:	/ears: 3.00	ON	NODE TOTALS:	9	0	0	2	2	7	66.7	8.688	0.23	0.29	0.79

## Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Summary |

							Sections	ons									
Start	End	Element	Offset	Route - MP	Section U/R Total	J/R	Total		Injul	Injury Crashes	shes		Percent	Annual	Percent Annual Crash Rate Critical	Critical	CRF
Node	Node		Begin - End		Length		Crashes K	×	4	00	O	PD	PD Injury	HMVM		Rate	
15773 Int of PEQU,	15774 AWKET T	3105870 RL SENATOR	15773 15774 3105870 0 - 0.38 Int of PEQUAWKET TRL SENATOR BLACK RD	15773 15774 3105870 0 - 0.38 0113X - 10.80 tof PEQUAWKET TRL SENATOR BLACK RD ST RTE 113	0.38	_	ო	0	0	_	0	2;	33.3	0.00537	Statewic	186.20 419.05 de Crash Rate: 178.75	0.00
15774 Int of PEQU,	15775 AWKET TI	15774 15775 3100368 0 - 0.85 Int of PEQUAWKET TRL ROCKY DUNN RD	0 - 0.85 JUNN RD	0113X - 11.18 · ST RTE 113	0.85	-	9	0	0	7	0	4	33.3	0.01.186	168.58 347.26 Statewide Crash Rate: 178.75	168.58 347.26 le Crash Rate: 178.75	0.00
15775 Int of DEPO'	15776 T RD PE(	15775 15776 3105871 0 - 0.52 Int of DEPOT RD PEQUAWKET TRL	0 - 0.52	0005X - 40.60 ST RTE 5	0.52	-	က	0	0	0	-	N	33.3	0.00927	107.92 367.33 Statewide Crash Rate: 178.75	107.92 367.33 de Crash Rate: 178.75	0.00
15776 Int of CHASI	15777 E RD PEC	15776 15777 3105873 0 - 0.52 nt of CHASE RD PEQUAWKET TRL	0 - 0.52	0005X - 41.12 ST RTE 5	0.52	-	က	0	-	0	0	N	33.3	0.00913	109.49 368.57 Statewide Crash Rate: 178.75	109.49 368.57 e Crash Rate: 178.75	0.00
Study Years: 3.00	ars: 3.	00.		Section Totals:	2:27		15	0	-	က	-	0	1 10 33.3	0.03563	140.32	140.32 279.41	0.50
				Grand Totals:	2.27		21	0	0 1	2	m	12	5 3 12 42.9 0.03563	0.03563	196.44	196.44 319.09	0.62

# Maine Department Of Transportation - Traffic Engineering, Crash Records Section

### Crash Summary Report

### Report Selections and Input Parameters

✓1320 Summary			<b>V</b> 0
1320 Private		7	✓ Exclude First Node ☐ Exclude Last Node
☐1320 Public			
☑ Crash Summary II			Start Offset: 0 End Offset: 0
Section Detail	Slack Rd. to Brown Rd.	REPORT PARAMETERS Year 2015, Start Month 1 through Year 2017 End Month: 12	Start Node: 11080 End Node: 15317
REPORT SELECTIONS  Crash Summary I	REPORT DESCRIPTION Baldwin Martson Rd. from Senator Black Rd. to Brown Rd.	REPORT PARAMETERS Year 2015, Start Month 1 th	Route: <b>0500628</b>

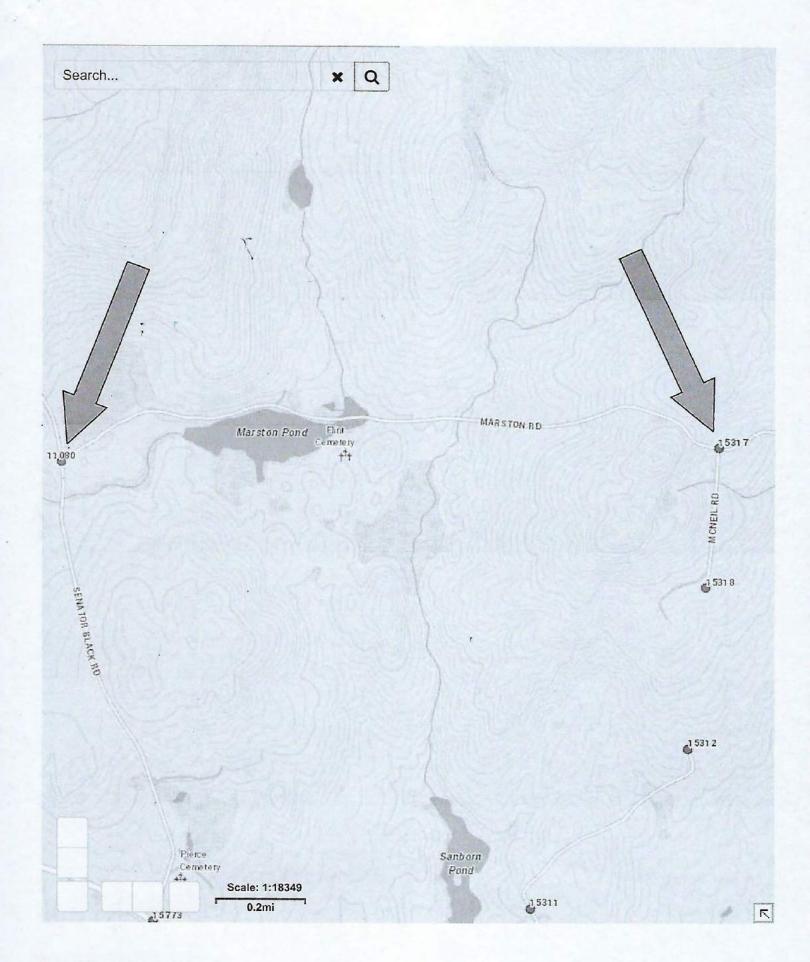
Maine Department Of Transportation - Traffic Engineering, Crash Records Section

### Crash Summary I

				Nodes										
Node	Node Route - MP	Node Description	U/R	Total		njury	Cras	hes	Р	ercent	Annual M	Crash Rafe	Critical	SPE
				Crashes	¥	V	В	ပ	PD -	njury	Ent-Veh	Crashes K A B C PD Injury Ent-Veh Cashe Rate	Rate	
15317	15317 0500628 - 1.54 Int of BROWN RD MARSTON RD MCNEIL!	RD MARSTON RD MCNEIL RD	-	0	0	0	0	0-1	0	0.0	0.017 State	1 0 0 0 0 0 0.0 0.0 0.017 0.00 -5.74 0.00 Statewide Crash Rate: 0.13	-5.74	0.00
Study Yo	Study Years: 3.00	NODE TOTALS: 0 0 0 0 0 0.0 0.017	ALS:	0	0	0	0	0	0	0.0	0.017	0.00	0.00 -5.77 0.00	0.00

Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Summary I

						Sec	Sections	8								
Start I Node N	End	Element Offset Begin - Er	Offset Begin - End	Route - MP	Section U/R Total Length Crashes K	Total Crashes	×	lnju A	ry Cra B	shes	PD	Percent Injury	Annual	Injury Crashes Percent Annual Crash Rate Critical A B C PD Injury HMVM Rate	Critical Rate	CRF
11080 1 Int of MARSTC	15317 ON RD 8	11080 15317 184914 0 - 1.8 mt of MARSTON RD SENATOR BLACK RD	0 - 1.54 ACK RD	11080 15317 184914 0 - 1.54 0500628 - 0 of MARSTON RD SENATOR BLACK RD RD INV 05 00628	1.54 1	0 0 0 0 0 0	0	0	0	0	0	0.0	0.0 0.00026	0.00 996.20 Statewide Crash Rate: 232.00	996.20 tate: 232.00	0.00
Study Years: 3.00	rs: 3.	00		Section Totals:	1.54	0	0	0 0 0 0 0 0	0	0	0	0.0	0.0 0.00026		0.00 996.24	00.00
				Grand Totals:	1.54	0	0	0 0 0 0 0	0	0	0	0.0	0.0 0.00026	0.00	0.00 1092.74	0.00



# Maine Department Of Transportation - Traffic Engineering, Crash Records Section

### Crash Summary Report

Report Selections and Input Parameters

✓ Exclude First Node
✓ Exclude Last Node ☐1320 Public Start Offset: 0 End Offset: 0 ✓ Crash Summary II Year 2015, Start Month 1 through Year 2017 End Month: 12 Baldwin Senator Black Rd from Rte 113-South to Rte 113-North Start Node: 15773 End Node: 15777 Section Detail REPORT PARAMETERS REPORT DESCRIPTION REPORT SELECTIONS ✓ Crash Summary I Route: 0500630

Maine Department Of Transportation - Traffic Engineering, Crash Records Section

Crash Summary |

				Nodes			To the same of the							
Node	Route - MP	Node Description	U/R	U/R Total		Injury	Cras	hes	А	ercentA	nnual M	Crash Bate	Critical	CRF
				Crashes K A	¥	V	m	ပ	PD	njury E	ent-Veh	A B C PD Injury Ent-Veh	Rate	
11080	0500630 - 1.08	11080 0500630 - 1.08 Int of MARSTON RD SENATOR BLACK RD	-	0	0	0	0	0 0-0	0	0.0	0.0 0.058 Stafe	58 0.00 -0.53 Statewide Crash Rate: 0.13	-0.53 9: 0.13	0.00
11086	0500630 - 2.24	11086 0500630 - 2.24 Int of HALL RD, SENATOR BLACK RD	_	0	0	0	0	0 0 0 0 0	0	0.0	0.0 0.049 State	49 0.00 -0.84 Statewide Crash Rate: 0.13	-0.84	0.00
Study Y	Study Years: 3.00	ION	NODE TOTALS:	0	0	0	0	0 0 0 0 0		0.0 0.107	0.107	00:00		0.15 0.00

Maine Department Of Transportation - Traffic Engineering, Crash Records Section Crash Summary I

							Sections	Suo									
Start	End	Element	Offset	Route - MP	Section U/R Total	U/R	Total		Injur	Injury Crashes	shes	- 6	Percent	Annual	Percent Annual Crash Rate Critical	Critical	CRF
	200		pediu - Eug		rengin		dalica	4	4	מ	3	2	A B C PD injury	MINIMIL		Kale	
11080 Int of MARS	15773 STON RD	11080 15773 184915 0 - 1.0 int of MARSTON RD SENATOR BLACK RD	0 - 1.08 ACK RD	11080 15773 184915 0 - 1.08 0500630 - 0 tof MARSTON RD SENATOR BLACK RD RD INV 05 00630	1.08	-	0	0	0	0	0	0	0.0	0.0 0.00064	0.00 866.29 Statewide Crash Rate: 232.00	0.00 866.29 Srash Rate: 232.00	00.00
11080 Int of MARS	11086 STON RD	11080 11086 184913 - 0 - 1.16 int of MARSTON RD SENATOR BLACK RD	- 0 - 1.16 -ACK RD	0500630 - 1.08 . RD INV 05 00630	1.16	-	0	0	0	0	0	0	0.0	0.00045	0.00 928.41 Statewide Crash Rate: 232.00	0.00 928.41 Srash Rate: 232.00	0.00
11086 Int of HALL	15777 RD, SENA	11086 15777 184927 0 - 0.26 Int of HALL RD, SENATOR BLACK RD	0 - 0.26 RD	0500630 - 2.24 RD INV 05 00630	0.26	-	0	0	0	0 0 0	0	0	0.0	0.00013	0.00 946.64 Statewide Crash Rate: 232.00	0.00 946.64 Srash Rate: 232.00	00.00
Study Years: 3.00	ears: 3	00.		Section Totals:	2.50		0	0	0	0	0	0	0.0	0 0 0 0 0 0.00 0.00	0.00	0.00 742.35	0.00
				Grand Totals:	2:50		0	0	0 0 0 0	0	0	0	0.0	0.0 -0.00123	0.00	0.00 799.78	0.00

### Summary of All Intervals

Run Number		2	4	5	6	7	Avg
Start Time		4:57	4:57	4:57	4:57	4:57	4:57
End Time		6:00	6:00	6:00	6:00	6:00	6:00
Total Time (min)		63	63	63	63	63	63
Time Recorded (min)		60	60	60	60	60	60
# of Intervals		2	2	2	2	2	2
# of Recorded Intervals		1	1	1	1	1	1
Vehs Entered		1586	1533	1583	1543	1651	1579
Vehs Exited		1586	1539	1592	1546	1656	1585
Starting Vehs .		18	16	23	17	25	20
Ending Vehs	T	18	10	14	14	20	13
Travel Distance (mi)	1	689	670	694	673	721	689
Travel Time (hr)		17.6	17.2	17.7	17.2	18.5	17.6
Total Delay (hr)		0.9	0.9	1.0	0.9	1.0	0.9
Total Stops		207	190	207	198	205	202
Fuel Used (gal)		22.0	21.4	21.8	21.2	22.9	21.9

### Interval #0 Information Seeding

Start Time	4:57
End Time	5:00
Total Time (min)	3
Volumes adjusted by Grov	vth Factors.
No data recorded this inter	

### Interval #1 Information Recording

Start Time	5:00	777
End Time	6:00	
Total Time (min)	60	
Volumes adjusted by Growt	h Factors.	

Run Number	2	4	5	6	7	Avg	mai
Vehs Entered	1586	1533	1583	1543	1651	1579	in a design
Vehs Exited	1586	1539	1592	1546	1656	1585	
Starting Vehs	18	16	23	17	25	20	
Ending Vehs	18	10	14	14	20	13	
Travel Distance (mi)	689	670	694	673	721	689	
Travel Time (hr)	17.6	17.2	17.7	17.2	18.5	17.6	
Total Delay (hr)	0.9	0.9	1.0	0.9	1.0	0.9	
Total Stops	207	190	207	198	205	202	
Fuel Used (gal)	22.0	21.4	21.8	21.2	22.9	21.9	

Baldwin Campground

### 3: Route 113 & Senator Black Rd (N) Performance by approach

Approach	WB	NB	SB	All	
Denied Del/Veh (s)	0.1	0.2	0.2	0.2	
Total Del/Veh (s)	4.6	0.5	0.3	0.6	

### 7: Route 113 & Route 5/17 Performance by approach

Approach	EB	NB	SB	All	
Denied Del/Veh (s)	0.2	0.2	0.2	0.2	
Total Del/Veh (s)	6.5	2.1	1.2	3.0	

### 11: Route 113 & Senator Black Rd (S) Performance by approach

Approach	EB	WB	SB	All	
Denied Del/Veh (s)	0.2	0.2	0.1	0.2	
Total Del/Veh (s)	0.3	0.3	3.8	0.4	

### Total Network Performance

Denied Del/Veh (s)	0.2	The state of the s
Total Del/Veh (s)	1.9	

Baldwin Campground jar

### Intersection: 3: Route 113 & Senator Black Rd (N)

Movement	WB	SB	
Directions Served	LR	LT	
Maximum Queue (ft)	36	22	
Average Queue (ft)	11	1	
95th Queue (ft)	35	10	
Link Distance (ft)	1006	1191	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)	1.	THE PERSON	
	1		

### Intersection: 7: Route 113 & Route 5/17

Movement	EB	NB	SB	
Directions Served	LR	LT	TR	
Maximum Queue (ft)	101	56	4	
Average Queue (ft)	50	13	0	
95th Queue (ft)	80	41	3	
Link Distance (ft)	1205	1245	1241	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)			CONTRA	
Storage Blk Time (%)				
Queuing Penalty (veh)	Production of the		TOTAL PROPERTY.	

### Intersection: 11: Route 113 & Senator Black Rd (S)

Movement	EB	SB	
Directions Served	LT	LR	
Maximum Queue (ft)	15	27	
Average Queue (ft)	1	4	
95th Queue (ft)	7	19	
Link Distance (ft)	913	1176	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

### **Network Summary**

Network wide Queuing Penalty: 0

### Summary of All Intervals

Run Number		2	3	4	5	6	Avg	
Start Time		4:57	4:57	4:57	4:57	4:57	4:57	
End Time		6:00	6:00	6:00	6:00	6:00	6:00	
Total Time (min)		63	63	63	63	63	63	
Time Recorded (min)		60	60	60	60	60	60	
# of Intervals		2	2	2	2	2	2	
# of Recorded Intervals		1	1	1	1	1	1	
Vehs Entered		2146	2107	2080	2131	2160	2126	
Vehs Exited		2142	2101	2079	2134	2155	2122	
Starting Vehs ,		23	17	24	23	21	21	
Ending Vehs	1	27	23	25	20	26	24	
Travel Distance (mi)	7	932	910	902	928	939	922	
Travel Time (hr)		24.0	23.6	22.9	23.7	24.2	23.7	
Total Delay (hr)		1.7	1.6	1.4	1.5	1.7	1.6	
Total Stops		277	300	257	272	270	277	
Fuel Used (gal)		29.9	29.0	28.7	29.6	29.8	29.4	

### Interval #0 Information Seeding

Start Time	4:57
End Time	5:00
Total Time (min)	3
Volumes adjusted by Gro	owth Factors.
No data recorded this int	

### Interval #1 Information Recording

Start Time	5:00
End Time	6:00
Total Time (min)	60
Volumes adjusted by Grow	th Factors.

Run Number	2	3	4	5	6	Avg	
Vehs Entered	2146	2107	2080	2131	2160	2126	
Vehs Exited	2142	2101	2079	2134	2155	2122	
Starting Vehs	23	17	24	23	21	21	-
Ending Vehs	27	23	25	20	26	24	
Travel Distance (mi)	932	910	902	928	939	922	
Travel Time (hr)	24.0	23.6	22.9	23.7	24.2	23.7	
Total Delay (hr)	1.7	1.6	1.4	1.5	1.7	1.6	
Total Stops	277	300	257	272	270	277	
Fuel Used (gal)	29.9	29.0	28.7	29.6	29.8	29.4	

### 3: Route 113 & Senator Black Rd (N) Performance by approach

Approach	WB	NB	SB	All	
Denied Del/Veh (s)	0.1	0.3	0.2	0.3	
Total Del/Veh (s)	5.6	0.7	0.4	0.7	THE RESIDENCE OF THE PERSON OF

### 7: Route 113 & Route 5/17 Performance by approach

Approach	EB	NB	SB	All	
Denied Del/Veh (s)	0.2	0.2	0.3	0.2	
Total Del/Veh (s)	8.1	2.2	1.8	3.9	

### 11: Route 113 & Senator Black Rd (S) Performance by approach

Approach	EB	WB	SB	All	
Denied Del/Veh (s)	0.2	0.4	0.1	0.3	
Total Del/Veh (s)	0.4	0.6	5.9	0.6	

### Total Network Performance

Denied Del/Veh (s)	0.3	
Total Del/Veh (s)	2.4	

### Intersection: 3: Route 113 & Senator Black Rd (N)

Movement	WB		Walle of the same	O STANDAR AND THE STANDAR OF THE	DESIGNATION OF THE PARTY OF THE	
Directions Served	LR			MIN THE STATE OF T		Harris Harrison Andrews
Maximum Queue (ft)	36		1	DAY NAMED BOOK	HEAT STATE	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN
Average Queue (ft)	10					
95th Queue (ft)	33	THE RESERVE			THE REAL PROPERTY.	
Link Distance (ft)	1006			-		
Upstream Blk Time (%)					W. T	
Queuing Penalty (veh)						
Storage Bay Dist (ft)		N	DOMEST OF	THE REAL PROPERTY AND ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS OF THE PERTY ADDRESS O		THE LABOUR DE STATE
Storage Blk Time (%)						
Queuing Penalty (veh)	7		William Town			

### Intersection: 7: Route 113 & Route 5/17

Movement	EB	NB	SB	
Directions Served	LR	LT	TR	19
Maximum Queue (ft)	101	57	9	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
Average Queue (ft)	59	15	0	
95th Queue (ft)	93	. 44	5	
Link Distance (ft)	1205	1245	1241	
Upstream Blk Time (%)	TO THE	THE REAL PROPERTY.		
Queuing Penalty (veh)				
Storage Bay Dist (ft)				A SECURE OF THE
Storage Blk Time (%)				
Queuing Penalty (veh)				

### Intersection: 11: Route 113 & Senator Black Rd (S)

Movement	EB	SB	
Directions Served	LT	LR	
Maximum Queue (ft)	21	41	
Average Queue (ft)	2	11	
95th Queue (ft)	12	34	
Link Distance (ft)	913	1176	
Upstream Blk Time (%)			
Queuing Penalty (veh)			*
Storage Bay Dist (ft)	BARRE		AND MADE AND ADDRESS OF THE PARTY OF THE PAR
Storage Blk Time (%)			The second secon
Queuing Penalty (veh)			
educating i charty (veri)	TO SHOW		

### **Network Summary**

Network wide Queuing Penalty: 0

### Summary of All Intervals

Run Number		1	3	4	5	7	Avg	
Start Time	0.00	4:57	4:57	4:57	4:57	4:57	4:57	
End Time		6:00	6:00	6:00	6:00	6:00	6:00	THE STREET
Total Time (min)		63	63	63	63	63	63	2963
Time Recorded (min)		60	60	60	60	60	60	
# of Intervals		2	2	2	2	2	2	
# of Recorded Intervals		1	1	1	1	1	1	
Vehs Entered		1678	1695	1659	1686	1718	1688	
Vehs Exited		1674	1694	1662	1690	1722	1688	
Starting Vehs ,		17	21	16	18	22	19	
Ending Vehs	1-	21	22	13	14	18	15	
Travel Distance (mi)	7	730	737	724	736	750	735	
Travel Time (hr)		19.4	19.5	19.0	19.3	19.8	19.4	
Total Delay (hr)		1.2	1.2	1.1	1.1	1.3	1.2	
Total Stops		253	261	257	260	268	258	
Fuel Used (gal)		23.8	23.9	23.6	23.8	24.2	23.8	

### Interval #0 Information Seeding

Start Time	4:57
End Time	5:00
Total Time (min)	3
Volumes adjusted by Growth	h Factors.
No data recorded this intervi-	

### Interval #1 Information Recording

Start Time	5:00
End Time	6:00
Total Time (min)	60
Volumes adjusted by Grow	th Factors

Run Number	1	3	4	5	7	Avg
Vehs Entered	1678	1695	1659	1686	1718	1688
Vehs Exited	1674	1694	1662	1690	1722	1688
Starting Vehs	17	21	16	18	22	19
Ending Vehs	21	22	13	14	18	15
Travel Distance (mi)	730	737	724	736	750	735
Travel Time (hr)	19.4	19.5	19.0	19.3	19.8	19.4
Total Delay (hr)	1.2	1.2	1.1	1.1	1.3	1.2
Total Stops	253	261	257	260	268	258
Fuel Used (gal)	23.8	23.9	23.6	23.8	24.2	23.8

### 3: Route 113 & Senator Black Rd (N) Performance by approach

Approach	WB	NB	SB	All	
Denied Del/Veh (s)	0.1	0.2	0.2	0.2	
Total Del/Veh (s)	4.1	0.5	0.8	0.8	

### 7: Route 113 & Route 5/17 Performance by approach

Approach	EB	NB	SB	All	
Denied Del/Veh (s)	0.2	0.2	0.2	0.2	
Total Del/Veh (s)	7.1	1.9	1.2	3.3	

### 11: Route 113 & Senator Black Rd (S) Performance by approach

Approach	EB	WB	SB	All	
Denied Del/Veh (s)	0.2	0.2	0.1	0.2	
Total Del/Veh (s)	0.8	0.6	6.9	1.0	

### Total Network Performance

Denied Del/Veh (s)	0.2	
Total Del/Veh (s)	2.3	

### Intersection: 3: Route 113 & Senator Black Rd (N)

WB	SB	
LR	LT	
45	40	
20	5	
45	25	
1006	1191	
DEPTHE !		
	THE PLANT	
7	The State of the S	DESCRIPTION OF THE PROPERTY OF
	LR 45 20 45	LR LT 45 40 20 5 45 25

### Intersection: 7: Route 113 & Route 5/17

EB	NB	SB	
LR	LT	TR	
119	55	4	
53	10	0	
92	36	4	
1205	1245	1241	
		15 17 18	
- 24			
	LR 119 53 92	LR LT 119 55 53 10 92 36	LR LT TR 119 55 4 53 10 0 92 36 4

### Intersection: 11: Route 113 & Senator Black Rd (S)

Movement	EB	SB	
Directions Served	LT	LR	
Maximum Queue (ft)	32	51	
Average Queue (ft)	3	19	
95th Queue (ft)	17	45	
Link Distance (ft)	913	1176	
Upstream Blk Time (%)			
Queuing Penalty (veh)			,
Storage Bay Dist (ft)	COMPANY OF	Election III	
Storage Blk Time (%)			
Queuing Penalty (veh)	TO THE		

### **Network Summary**

Network wide Queuing Penalty: 0

### Summary of All Intervals

Run Number		2	3	4	5	6	Avg
Start Time		4:57	4:57	4:57	4:57	4:57	4:57
End Time		6:00	6:00	6:00	6:00	6:00	6:00
Total Time (min)		63	63	63	63	63	63
Time Recorded (min)		60	60	60	60	60	60
# of Intervals		2	2	2	2	2	2
# of Recorded Intervals		1	1	1	1	1	1
Vehs Entered		2335	2255	2294	2305	2285	2298
Vehs Exited		2332	2245	2295	2315	2284	2294
Starting Vehs ,		25	17	31	31	29	28
Ending Vehs	7	28	27	30	21	-30	25
Travel Distance (mi)	7	1013	975	995	1003	989	995
Travel Time (hr)		27.2	26.0	26.6	26.9	26.2	26.6
Total Delay (hr)		2.2	`2.1	2.1	2.1	2.1	2.1
Total Stops		402	374	382	401	340	379
Fuel Used (gal)		33.9	32.0	33.1	33.0	32.6	32.9

### Interval #0 Information Seeding

Start Time	4:57
End Time	5:00
Total Time (min)	3
Volumes adjusted by Grov	vth Factors.
No data recorded this inte	

### Interval #1 Information Recording

Start Time	5:00
End Time	6:00
Total Time (min)	60
Volumes adjusted by Grow	th Factors

Run Number	2	3	4	5	6	Avg
Vehs Entered	2335	2255	2294	2305	2285	2298
Vehs Exited	2332	2245	2295	2315	2284	2294
Starting Vehs	25	17	31	31	29	28
Ending Vehs	28	27	30	21	30	25
Travel Distance (mi)	1013	975	995	1003	989	995
Travel Time (hr)	27.2	26.0	26.6	26.9	26.2	26.6
Total Delay (hr)	2.2	2.1	2.1	2.1	2.1	2.1
Total Stops	402	374	382	401	340	379
Fuel Used (gal)	33.9	32.0	33.1	33.0	32.6	32.9

### 3: Route 113 & Senator Black Rd (N) Performance by approach

Approach	WB	NB	SB	All	
Denied Del/Veh (s)	0.1	0.3	0.2	0.3	
Total Del/Veh (s)	5.1	0.9	0.8	1.1	

### 7: Route 113 & Route 5/17 Performance by approach

Approach	EB	NB	SB	All	
Denied Del/Veh (s)	0.2	0.2	0.3	0.2	
Total Del/Veh (s)	8.6	2.4	1.8	4.2	Problems of the Control of the Contr

### 11: Route 113 & Senator Black Rd (S) Performance by approach

Approach	EB	WB	SB	All	
Denied Del/Veh (s)	0.2	0.4	0.1	0.3	
Total Del/Veh (s)	0.9	1.2	8.2	1.6	

### Total Network Performance

Land the second of the second	democratic many	
Denied Del/Veh (s)	0.3	
Total Del/Veh (s)	3.0	

Baldwin Campground jar

### Intersection: 3: Route 113 & Senator Black Rd (N)

Movement	WB	SB	
Directions Served	LR	LT	
Maximum Queue (ft)	49	47	
Average Queue (ft)	24	6	
95th Queue (ft)	49	29	
Link Distance (ft)	1006	1191	
Upstream Blk Time (%)	THE REAL PROPERTY.		
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			AND DESCRIPTION OF THE PROPERTY OF THE PROPERT
Queuing Penalty (veh)	7		
	1		

### Intersection: 7: Route 113 & Route 5/17

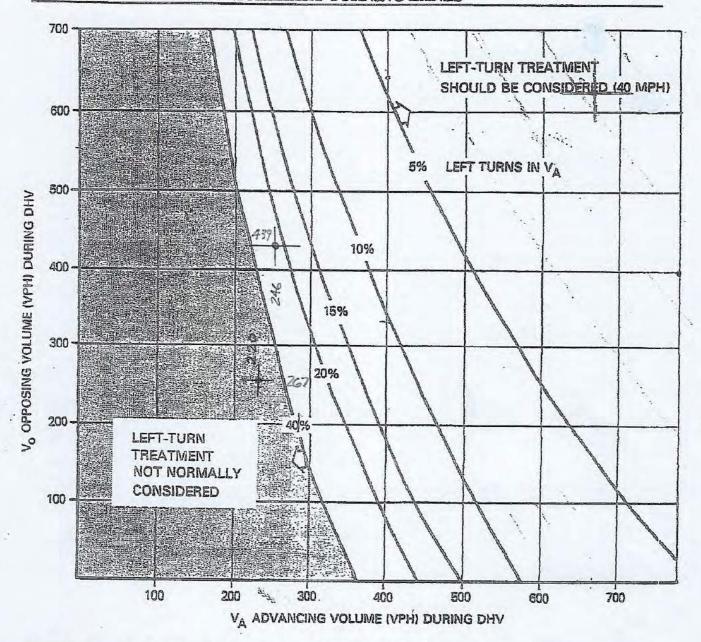
Movement	EB	NB	SB	
Directions Served	LR	LT	TR	
Maximum Queue (ft)	134	69	4	
Average Queue (ft)	64	15	0	
95th Queue (ft)	104	48	3	
Link Distance (ft)	1205	1245	1241	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				THE PARTY OF THE P

### Intersection: 11: Route 113 & Senator Black Rd (S)

Movement	EB	SB	
Directions Served	LT	LR	
Maximum Queue (ft)	47	63	THE RESIDENCE OF STREET STREET, STREET
Average Queue (ft)	6	25	
95th Queue (ft)	27	50	
Link Distance (ft)	913	1176	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)	THE PERSON		

### **Network Summary**

Network wide Queuing Penalty: 0



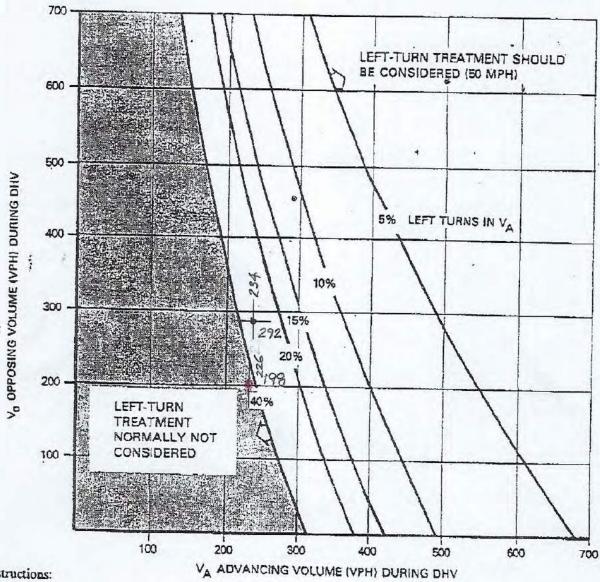
### Instructions:

- The family of curves represent the percent of left turns in the advancing volume (V<sub>A</sub>). The
  designer should locate the curve for the actual percentage of left turns. When this is not an
  even increment of 5, the designer should estimate where the curve lies.
- Read V<sub>A</sub> and V<sub>O</sub> into the chart and locate the intersection of the two volumes.
- 5. Note the location of the point in #2 relative to the line in #1. If the point is to the right of the line, then a left-turn lane is warranted. If the point is to the left of the line, then a left-turn lane is not warranted based on traffic volumes.

VOLUME WARRANTS FOR LEFT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON 2-LANE HIGHWAYS (40 mph)

Figure 8-19

Senator Black Rd. @ S. R. 113 North Intersection



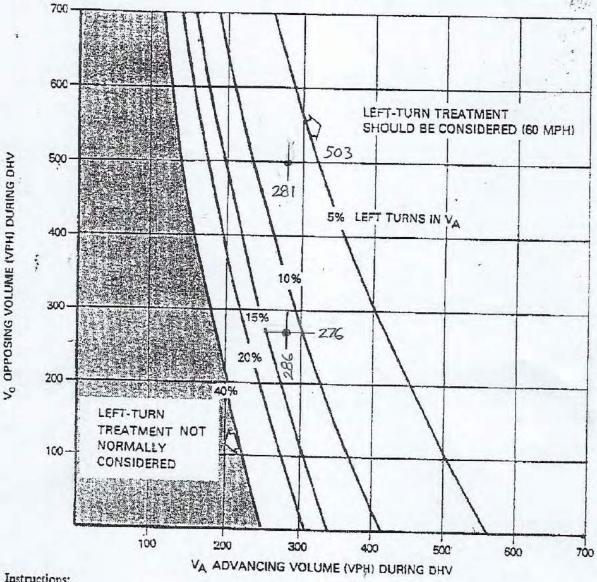
### Instructions:

- The family of curves represent the percent of left turns in the advancing volume (VA). The designer should locate the curve for the actual percentage of left turns. When this is not an even increment of 5, the designer should estimate where the curve lies.
- Read VA and Vo into the chart and locate the intersection of the two volumes. 2.
- Note the location of the point in #2 relative to the line in #1. If the point is to the right of the line, then a left-turn lane is warranted. If the point is to the left of the line, then a left-turn is not warranted based on traffic volumes.

VOLUME WARRANTS FOR LEFT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON 2-LANE HIGHWAYS (50 mph)

Figure 8-18

Senator Black Road @ Depot Road



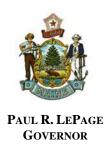
### Instructions:

- 1. The family of curves represent the percent of left turns in the advancing volume (VA). The designer should locate the curve for the actual percentage of left rurns. When this is not an even increment of 5, the designer should estimate where the curve lies.
- Read VA and Vo into the chart and locate the intersection of the two volumes.
- Note the location of the point in #2 relative to the line in #1. If the point is to the right of the line, then a left-turn lane is warranted. If the point is to the left of the line, then a left-turn is not warranted based on traffic volumes.

VOLUME WARRANTS FOR LEFT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON 2-LANE HIGHWAYS (60 mph)

Figure 8-17

Senator Black Rd. 6 5. R. 113 South Intersection TOTAL P.04



### STATE OF MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY

93 STATE HOUSE STATION AUGUSTA, MAINE 04333

WALTER E. WHITCOMB COMMISSIONER

October 10, 2017

Katy Bouchard Terradyn Consultants PO Box 339 New Gloucester, ME 04260

Via email: katy@terradynconsultants.com

Re: Rare and exemplary botanical features in proximity to: #1640, Nature's Wilderness Campground, Baldwin, Maine

Dear Ms. Bouchard:

I have searched the Natural Areas Program's Biological and Conservation Data System files in response to your request received October 5, 2017 for information on the presence of rare or unique botanical features documented from the vicinity of the project in Baldwin, Maine. Rare and unique botanical features include the habitat of rare, threatened, or endangered plant species and unique or exemplary natural communities. Our review involves examining maps, manual and computerized records, other sources of information such as scientific articles or published references, and the personal knowledge of staff or cooperating experts.

Our official response covers only botanical features. For authoritative information and official response for zoological features you must make a similar request to the Maine Department of Inland Fisheries and Wildlife, 284 State Street, Augusta, Maine 04333.

According to the information currently in our Biological and Conservation Data System files, there are no rare botanical features documented specifically within the project area. This lack of data may indicate minimal survey efforts rather than confirm the absence of rare botanical features. You may want to have the site inventoried by a qualified field biologist to ensure that no undocumented rare features are inadvertently harmed.

If a field survey of the project area is conducted, please refer to the enclosed supplemental information regarding rare and exemplary botanical features documented to occur in the vicinity of the project site. The list may include information on features that have been known to occur historically in the area as well as recently field-verified information. While historic records have not been documented in several years, they may persist in the area if suitable habitat exists. The enclosed list identifies features with potential to occur in the area, and it should be considered if you choose to conduct field surveys.

This finding is available and appropriate for preparation and review of environmental assessments, but it is not a substitute for on-site surveys. Comprehensive field surveys do not exist for all natural areas in Maine, and in the absence of a specific field investigation, the Maine Natural Areas Program cannot provide a definitive statement on the presence or absence of unusual natural features at this site.

MOLLY DOCHERTY, DIRECTOR
MAINE NATURAL AREAS PROGRAM



PHONE: (207) 287-8044 FAX: (207) 287-8040 WWW.MAINE.GOV/DACF/MNAP Letter to Terradyn Comments RE: Nature's Wilderness, Baldwin October 10, 2017 Page 2 of 2

The Natural Areas Program is continuously working to achieve a more comprehensive database of exemplary natural features in Maine. We would appreciate the contribution of any information obtained should you decide to do field work. The Natural Areas Program welcomes coordination with individuals or organizations proposing environmental alteration, or conducting environmental assessments. If, however, data provided by the Natural Areas Program are to be published in any form, the Program should be informed at the outset and credited as the source.

The Natural Areas Program has instituted a fee structure of \$75.00 an hour to recover the actual cost of processing your request for information. You will receive an invoice for \$150.00 for two hours of our services.

Thank you for using the Natural Areas Program in the environmental review process. Please do not hesitate to contact me if you have further questions about the Natural Areas Program or about rare or unique botanical features on this site.

Sincerely,

Krit Ping

Kristen Puryear | Ecologist | Maine Natural Areas Program

207-287-8043 | kristen.puryear@maine.gov

## Rare and Exemplary Botanical Features within 4 miles of Project: #1640, Nature's Wilderness Campground, Baldwin Maine

St Common Name Sta	State Status	State Rank	Global Rank	Date Last Observed	Occurrence Number	Habitat
Atlantic White Cedar						
SC	a	S2	G4	1933	14	Forested wetland
Cliff Muhly						
Ħ		S1	G5	1974-09-17	Ц	Hardwood to mixed forest (forest, upland),Rocky summits and outcrops (non-forested, upland)
Comb-leaved Mermaid-weed	-weed					
E		S1	$G_5$	1913-07-26	2	Open wetland, not coastal nor rivershore (non-forested, wetland)
Douglas' Knotweed						
SC	Ω	S2	G5	1933-08-01	7	Rocky summits and outcrops (non-forested, upland)
Ebony Spleenwort						
SC	Ω	S2	G5	1985-07-20	ယ	Rocky summits and outcrops (non-forested, upland),Hardwood to mixed forest (forest, upland)
Fall Fimbry						
SC		S2S3	G5	2004-08-24	11	Open wetland, not coastal nor rivershore (non-forested, wetland)
Fern-leaved False Foxglove	glove					
SC	Ω	83	G5	1916-08-29	15	Dry barrens (partly forested, upland),Hardwood to mixed forest (forest, upland)
Slender Cliffbrake						
T	٠٠	S1	G5	1905-07-27	4	Rocky summits and outcrops (non-forested, upland),Hardwood to mixed forest (forest, upland)
Small Whorled Pogonia	a					
E		S2	G2	1985-06-06	6	Hardwood to mixed forest (forest, upland)
E		$S_2$	G2	2013-06-19	10	Hardwood to mixed forest (forest, upland)
Smooth Winterberry Holly	olly					
SC	Ω	<b>S</b> 3	G5	1916-08-30	<b>∞</b>	Forested wetland
Spotted Wintergreen						

Maine Natural Areas Program

Page 1 of 2

www.maine.gov/dacf/mnap

## Rare and Exemplary Botanical Features within 4 miles of Project: #1640, Nature's Wilderness Campground, Baldwin Maine

Non-tidal rivershore (non-forested, seasonally wet), Hardwood to mixed forest (forest, upland)	4	1933-08-17	G5	$\mathbf{S}_1$	Ħ	
						Wild Coffee
Dry barrens (partly forested, upland)	4	1933-07-28	G5	S1	Ħ	
						Wild Chess
Conifer forest (forest, upland), Hardwood to mixed forest (forest, upland) $$	4	1975-07-05	G5	S2	চ	
Habitat	Occurrence Number	Date Last Observed	Global Rank	State Rank	State Status	Common Name

### STATE RARITY RANKS

- Critically imperiled in Maine because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biology makes it especially vulnerable to extirpation from the State of Maine.
- S2 Imperiled in Maine because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
- **S3** Rare in Maine (20-100 occurrences).
- **S4** Apparently secure in Maine.
- S5 Demonstrably secure in Maine.
- SU Under consideration for assigning rarity status; more information needed on threats or distribution.
- **SNR** Not yet ranked.
- **SNA** Rank not applicable.
- S#? Current occurrence data suggests assigned rank, but lack of survey effort along with amount of potential habitat create uncertainty (e.g. S3?).
- **Note**: **State Rarity Ranks** are determined by the Maine Natural Areas Program for rare plants and rare and exemplary natural communities and ecosystems. The Maine Department of Inland Fisheries and Wildlife determines State Rarity Ranks for animals.

### **GLOBAL RARITY RANKS**

- G1 Critically imperiled globally because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biology makes it especially vulnerable to extinction.
- G2 Globally imperiled because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
- **G3** Globally rare (20-100 occurrences).
- **G4** Apparently secure globally.
- G5 Demonstrably secure globally.
- **GNR** Not yet ranked.
- **Note**: Global Ranks are determined by NatureServe.

### STATE LEGAL STATUS

- Note: State legal status is according to 5 M.R.S.A. § 13076-13079, which mandates the Department of Conservation to produce and biennially update the official list of Maine's **Endangered** and **Threatened** plants. The list is derived by a technical advisory committee of botanists who use data in the Natural Areas Program's database to recommend status changes to the Department of Conservation.
- **E** ENDANGERED; Rare and in danger of being lost from the state in the foreseeable future; or federally listed as Endangered.
- THREATENED; Rare and, with further decline, could become endangered; or federally listed as Threatened.

### **NON-LEGAL STATUS**

- SC SPECIAL CONCERN; Rare in Maine, based on available information, but not sufficiently rare to be considered Threatened or Endangered.
- PE Potentially Extirpated; Species has not been documented in Maine in past 20 years or loss of last known occurrence has been documented.

### **ELEMENT OCCURRENCE RANKS - EO RANKS**

Element Occurrence ranks are used to describe the quality of a rare plant population or natural community based on three factors:

- <u>Size</u>: Size of community or population relative to other known examples in Maine. Community or population's viability, capability to maintain itself.
- <u>Condition</u>: For communities, condition includes presence of representative species, maturity of species, and evidence of human-caused disturbance. For plants, factors include species vigor and evidence of human-caused disturbance.
- <u>Landscape context</u>: Land uses and/or condition of natural communities surrounding the observed area. Ability of the observed community or population to be protected from effects of adjacent land uses.

These three factors are combined into an overall ranking of the feature of **A**, **B**, **C**, or **D**, where **A** indicates an **excellent** example of the community or population and **D** indicates a **poor** example of the community or population. A rank of **E** indicates that the community or population is **extant** but there is not enough data to assign a quality rank. The Maine Natural Areas Program tracks all occurrences of rare (S1-S3) plants and natural communities as well as A and B ranked common (S4-S5) natural communities.

**Note: Element Occurrence Ranks** are determined by the Maine Natural Areas Program for rare plants and rare and exemplary natural communities and ecosystems. The Maine Department of Inland Fisheries and Wildlife determines Element Occurrence ranks for animals.

Visit our website for more information on rare, threatened, and endangered species! http://www.maine.gov/dacf/mnap

### 2019 Season Rate Schedule Open May 1 to October 31

SEASON RATE SCHEDULE: (updated 11/12/18)

SEASONAL SITE	Peak Summer (7+ nights) 6/22 - 8/31	Peak Summer (3-6 nights) 6/22 - 8/31	Spring Season 5/1 - 6/21	Fall Season 9/1 - 10/31
Wooded Site Tent (water only)	\$43	\$46	\$28	\$38
Wooded Site Upper pond (water only)	\$47	\$52	\$31	\$47
Wooded Upper pond (water and electric)	\$49	\$52	\$31	\$43
Wooded RV Site (water & 30 amp)	\$48	\$51	\$30	\$42
Wooded RV Site (water & 50 amp)	\$55	\$58	\$36	\$49
RV Site (water, 30 amp, sewer)	\$55	\$58	\$36	\$49
RV Site (water, 50 amp, sewer)	\$59	\$62	\$40	\$55
Upper pond (water & 30 amp)	\$65	\$68	\$37	\$53
Upper pond (water & 50 amp)	\$68	\$72	\$41	\$58
Medium Size Glamping Cabin	\$129	\$139	\$99	\$99
Large Size Glamping Cabin	\$139	\$159	\$119	\$119
Two Bedroom Cabins	\$189	\$199	\$169	\$169
Two Bedroom Trailers	\$129	\$139	\$99	\$99

### GOOGLE

maine campgrounds cabins





Rating -

Hours -Your past visits ▼

### Papoose Pond Family Campground & Cabins

4.6 (185) · Campground

Waterford, ME



### Bar Harbor / Woodlands KOA

(165) · Campground

Bar Harbor, ME

m "The grounds were clean, staff was super friendly and private bathrooms."



### Big Moose Inn Cabins & Campground

4.5 (63) · Campground Warm rooms & cabins in a low-key lodge offering a cozy restaurant, plus free parking & breakfast.



Millinocket, ME

"Easy booking process, reasonably prices, nice staff, and very good facilities."

### **Sherwood Forest Campsite**

4.8 (30) · Campground

New Harbor, ME

"Cabins had everything ..."



### **Quietside Campground & Cabins**

4.7 (40) · Campground

Bernard, ME



### Discover more places







### Bear Point Marina, Cabins, Campground and Restaurai

(29) · Vacation Home Re..

Bowerbank, ME



### Seaview Campground & Cottages

4.4 (43) · Campground

Eastport, ME



### Birch Point Lodge Campgrounds

(63) · Campground

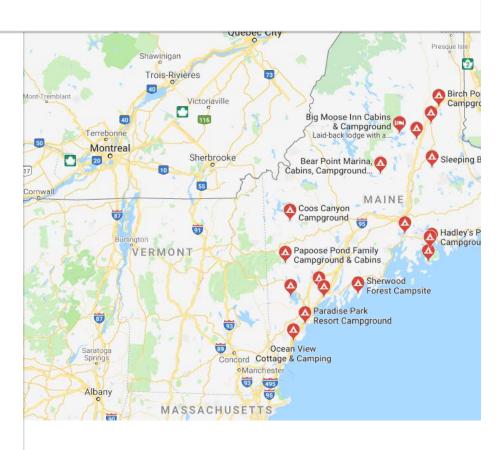
Island Falls, ME

"Awesome place, full bar, restaurant, and vintage bowling alley downstairs!"



### Ocean View Cottage & Camping

(60) · Campground



### GOOGLE

Rating ~

maine campsites cabins

Your past visits -





### Bar Harbor / Woodlands KOA

(165) · Campground 4.4 Bar Harbor, ME

m "The grounds were clean, staff was super friendly and private bathrooms.'



### Sherwood Forest Campsite

(30) · Campground

New Harbor, ME

"Cabins had everything ..."



### Papoose Pond Family Campground & Cabins

4.6 (185) · Campground Waterford, ME



### Quietside Campground & Cabins

(40) · Campground Bernard, ME



### Big Moose Inn Cabins & Campground

(63) · Campground Warm rooms & cabins in a low-key lodge offering a cozy restaurant, plus free parking & breakfast.



### Millinocket, ME

🍘 "Easy booking process, reasonably prices, nice staff, and very good facilities."

### Discover more places





### Bear Point Marina, Cabins, Campground and Restaura

(29) · Vacation Home R...





### Mt Desert Narrows Camping Resort

4.1 (131) · Campground

Bar Harbor, ME

"Loved it amazing views Hot water Laundry room Showers included in...



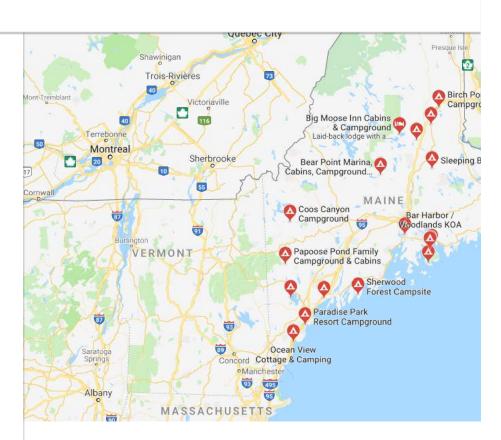
### Paradise Park Resort Campground

(198) · Campground

Old Orchard Beach, ME



### Ocean View Cottage & Camping



Est ID	Exp Date	Establishment Name		Mail Street 1	Mail City	Mail State	Zip Code	
26750	5/21/2019	LONE MOUNTAIN CAMPGROUND	CAMPGROUND	424 SOUTH MAIN ST	ANDOVER	ЭW	04216	
27273	5/22/2019	NORTHEAST WHITEWATER	EWATER	PO BOX 1623	GREENVILLE	ME	04441	
27372	5/18/2019	FOX CARLTON PC	FOX CARLTON POND CAMPGROUND	PO BOX 103	PHILLIPS	ЭM	04966	
27515	6/15/2019	ACADIA EAST CAMPGROUND	MPGROUND	200 METCALF RD	WINTHROP	ME	04364	
27517	8/31/2019	LIVING WATERS		PO BOX 250	DANFORTH	ME	04424	
27669	8/24/2019	WOODS AND WAT	WOODS AND WATERS CAMPGROUND	973 CENTRAL ST	MILLINOCKET	ME	04462	
Email Address	dress		Owner Name		LicenseType	уре		Phone
TLEARN	ED@ROADF	TLEARNED@ROADRUNNER.COM	LONE MOUNTAIN	LONE MOUNTAIN CAMPGROUND LLC	CAMPG SITES	CAMPGROUND 25-124 SITES	25-124	207-713- 3617
JESSICA	@NOTHEAS	JESSICA@NOTHEASTWHITEWATER.COM		NORTHEAST GUIDE SERVICE LLC	CAMPG	ROUND 5	CAMPGROUND 5-24 SITES	207-695- 0151
JON.POL	JON.POUND1947@GMAIL.COM	MAIL.COM	FOX CARLTON P	FOX CARLTON POND SPORTING CAMPS LLC		ROUND 5	CAMPGROUND 5-24 SITES	207-491- 5865
POCKET	PARKCAMP	POCKETPARKCAMPING@GMAIL.COM	POCKET PARKS	POCKET PARKS CAMPGROUND LLC	CAMPG	ROUND 5	CAMPGROUND 5-24 SITES	207-431- 7226
MOREIN	MOREINFO@LWCAMP.COM	VP.COM	LIVING WATERS INC	N O	CAMPG SITES	CAMPGROUND 25-124 SITES	25-124	207-448- 2310
INFO@P	INFO@PAMOLODGE.COM	E.COM	KATAHDIN SERVICES LLC	ICES LLC	CAMPG	ROUND 5	CAMPGROUND 5-24 SITES	207-723- 9746
Phone	Loc Street		Loc City					
207-713- 3617		424 SOUTH MAIN ST	ANDOVER					
207-695- 0151		0	SHIRLEY					
207-491- 5865		TOOTHAKER POND	PHILLIPS					
207 /21	E74	87/ HG BOLITE 1						

207-431-7226 207-448-2310 207-723-9746

973 CENRAL ST

MILLINOCKET

574 US ROUTE 1

GOULDSBORO

47 DARK COVE RD

**WESTON** 

