WATERSHED RESOURCE CONSULTANTS, LLC
NATURAL RESOURCE AND SOIL SCIENCE CONSULTING

23061
July 24, 2023

Herrick & Salsbury, Inc.
Attention: Steven Salsbury, PLS
130 Oak Road, Suite 1
Ellsworth, ME 04605
Via email: Steve@HerrickandSalsbury.com

Subject: Summary Report of Protected Natural Resource Services
Surry Road
Ellsworth, Maine

Dear Mr. Salsbury,

As requested, Watershed Resource Consultants, LLC (WRC) has completed a protected natural resource investigation on a property located at 120 Surry Road in Ellsworth Maine, shown as Map 20, Lot 80 on the municipal tax maps. The purpose of the investigation was to identify protected natural resources for planning purposes on the approximately 17.9-acre parcel. Wetland scientists visited the site in May and June of 2023 and identified jurisdictional wetlands that could meet state and/or federal regulatory definitions. The wetlands and streams were identified and field-located with flagging. Wetland boundaries and stream centerlines were located with a sub-meter mapping grade GPS. The attached sketch plan shows the areas identified.

Methodology:

Surveys to identify the presence of wetlands and water bodies were completed in accordance with the *1987 Federal Wetland Delineation Manual* and the *Federal Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region*, and the Maine Department of Environmental Protection (MDEP) Natural Resources Protection Act. Jurisdictional wetlands are defined under federal regulations as "…..*Areas that are inundated or saturated by surface or groundwater water at frequency and duration sufficient to support and that under normal circumstances do support a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetland generally includes swamps, marshes, bogs and similar areas."*. The following three parameters are used to determine if a jurisdictional wetland exists: evidence of **wetland hydrology**; a predominance of **hydrophytic vegetation;** and **hydric soils**. Resources were flagged, identified on the ground and located with a sub-meter mapping grade GPS.

Vernal pool surveys were conducted on the site during the spring breeding season to identify use by pool breeding species or Rare, Threatened or Endangered species. A vernal pool is a defined as a temporary

water body that provides breeding habitat for certain amphibians, fairy shrimp, and Rare, Threatened, or Endangered species. Vernal pools are classified by the Maine Department of Environmental Protection (MDEP) and the Maine Department of Inland Fisheries and Wildlife (IF&W) as Significant Vernal Pools (SVP's), non-Significant Vernal Pools (NSVP's), and Indicator Breeding Areas (IBA's), defined as features which support indicator species breeding but do not meet the state or federal definitions of a vernal pool.

Summary of Findings:

Wetland scientists found five wetlands and two streams on the property. **Wetland JL-1** is associated with Stream JL1 and starts on the western edge of the property and flows easterly then southerly through the site. Wetland JL1 is dominated by deciduous tree and shrub species and emergent marsh species and would be classified as Palustrine Forested Wetland (PFO) and Palustrine Emergent Marsh Wetland (PEM). Wetland **hydrology** indicators include High-Water Table (A2), Saturation (A3), Water-Stained Leaves (B9), and Geomorphic Position (D2). Dominant **hydrophytic vegetation** includes red maple (*Acre rubrum*), black ash (*Fraxinus nigra*), green ash (*Fraxinus pennsylvanica*), speckled alder (*Alnus incana*), interrupted fern (*Osmunda claytoniana*), sensitive fern (*Onoclea sensibilis*), and sedges. **Hydric soil** indicators observed include Depleted Matrix (F3).

Wetlands JL2 through JL5 were on the northern edge of the property and were dominated by deciduous tree and shrub species and emergent marsh vegetation and would be classified as Palustrine Forested Wetlands (PFO), Palustrine Scrub Shrub Wetlands (PSS), or Palustrine Emergent Marsh Wetlands (PEM). Wetland **hydrology** indicators include High-Water Table (A2), Saturation (A3), Water-Stained Leaves (B9), and Drainage Patterns (B10). Dominant **hydrophytic vegetation** includes red maple, black ash, green ash, balsam fir (*Abies balsamea*), interrupted fern, sensitive fern, and sedges. **Hydric soil** indicators observed include Thick Dark Surface (A12) and Depleted Matrix (F3).

Stream JL1 was an intermittent stream in Wetland JL1 that began from a culvert under the Surry Road and flowed easterly then southerly through the western half of the site. Bank to bank widths ranged from six to twelve feet, with water depths up to twelve inches, and a cobble, gravel, and sand substrate.

Stream JL2 was an intermittent stream that began in Wetland JL2 and flowed northeasterly and off-site. Bank to bank widths were three feet, with a dry channel at time of investigation, and a cobble, gravel, and mud substrate.

No other protected natural resources such as vernal pools, significant wildlife habitat or Rare, Threatened or Endangered Species (RTE) were reviewed for this survey. Please let us know if you have any questions or would like to discuss our findings. We appreciate the opportunity to work with you on this project.

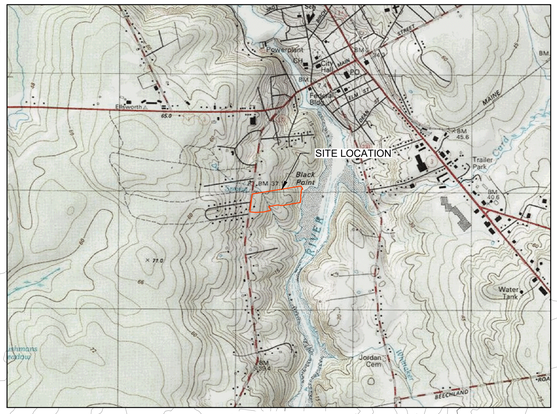
Sincerely,

Watershed Resource Consultants, LLC

Jeanna Leclerc, Project Scientist

Roger St. Amand, CSS, LSE, LPF, PWS, CPESC

Principal | Watershed Resource Consultants, LLC
rstamand@wrcmaine.com



SITE LOCATION MAP
SCALE: 1" = 2,000'

LEGEND

- PROJECT PARCEL
- LIMIT OF SERVICES
- MDEP CLASSIFIED "WETLANDS OF SPECIAL SIGNIFICANCE"
- MDEP CLASSIFIED "WETLANDS NOT OF SPECIAL SIGNIFICANCE" (PRELIMINARY CLASSIFICATION)
- STREAMS
- CULVERT

NOTES

1. THIS PROTECTED NATURAL RESOURCES FIELD DELINEATION PLAN DETAILS THE FINDINGS OF PROTECTED NATURAL RESOURCES FIELD DELINEATION SERVICES CONDUCTED BY WATERSHED RESOURCE CONSULTANTS, LLC ON AN APPROXIMATELY 15.4-ACRE PROPERTY (TAX MAP 20, LOT 80) AT 120 SURRY ROAD, ELLSWORTH, MAINE. PROTECTED NATURAL RESOURCES FIELD DELINEATION SERVICES WERE CONDUCTED ON APRIL 26 AND JUNE 8, 2023.
2. PROTECTED NATURAL RESOURCES WERE FIELD DELINEATED IN GENERAL ACCORDANCE WITH THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION NATURAL RESOURCES PROTECTION ACT DEFINITIONS; THE UNITED STATES DEPARTMENT OF THE ARMY STATE OF MAINE GENERAL PERMIT (OCTOBER 2020-2025), THE U.S. ARMY CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987), THE U.S. ARMY CORPS OF ENGINEERS REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION (2012), AND THE MDEP CHAPTER 335: SIGNIFICANT WILDLIFE HABITAT RULES.
3. RESOURCE FEATURES WERE LOCATED BY WATERSHED RESOURCE CONSULTANTS, LLC USING A MAPPING GRADE GPS RECEIVER (SUBMETER ACCURACY AS PER MANUFACTURER). THE GPS DATA AND A TAX MAP (MEGIS) WERE USED TO MAKE THIS PLAN.
4. THIS PLAN IS FOR PLANNING AND RESOURCE ALTERATION PERMITTING PURPOSES ONLY, IT IS NOT A SURVEY. THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE ACCOMPANYING SUMMARY REPORT OF PROTECTED NATURAL RESOURCES SERVICES.
5. PLAN REFERENCE: "Devlopment" DATED APRIL 9, 2023, PROVIDED BY HERRICK & SALSBURY, INC.. CAD FILE: SFS Development 120 Surry Road Ellsworth April 9 2023.dwg.

IPF SAGE COLLINS
W-JL5
FEMA NATIONAL FLOOD HAZARD LINE (NFHL)
S-JL1
W-JL4
W-JL2
IRON PIN FOUND (IPF)
S-JL1
W-JL1
IF&W TIDAL WATERFOWL & WADING BIRD HABITAT
MEGIS HIGHEST ASTRONOMICAL TIDE LINE EL. 7.9' (HAT)
30"Ø CULVERT
SURRY ROAD
IPF NEW H&S
IPF 1" IRON ROD
IPF
IPF NEW H&S
UNION RIVER
IPF 1" IRON ROD
IPF NEW H&S
GULLY

0 50' 100' 150'

Do Not Use for Construction
For Regulatory Review Only

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No.	Revision Description	Drwn.	Chk'd	Date
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Preliminary Protected Natural Resource Plan

Herrick & Salsbury, Inc.
120 Surry Road
Ellsworth, Maine

Job No.: 23061	Scale: 1" = 50'
Date: 7/25/2023	Sheet: 1

Photo 1: Palustrine emergent marsh (PEM) in Wetland JL1. Photograph taken June 8, 2023.

Photo 2: Palustrine forested wetland (PFO) in Wetland JL1. Photograph taken June 8, 2023.

Photo 3: Palustrine forested wetland (PFO) in Wetland JL2. Photograph taken June 8, 2023.

Photo 4: Palustrine forested wetland (PFO) in Wetland JL3. Photograph taken June 8, 2023.

Photo 5: Palustrine emergent marsh (PEM) in Wetland JL4. Photograph taken June 8, 2023.

Photo 6: Palustrine scrub shrub (PFO) in Wetland JL5. Photograph taken June 8, 2023.

Photo 7: Intermittent Stream JL1, looking upstream. Photograph taken June 8, 2023.

Photo 8: Intermittent Stream JL2, looking upstream. Photograph taken June 8, 2023.