

December 27, 2023

**Site Plan Pre-Application Narrative Ground Mount Solar Array
Manktown Road, Waldoboro, ME
Revision Energy Inc**

ReVision Energy Inc is pleased to provide the Town of Waldoboro with a narrative description of its proposed ground-mounted solar photovoltaic project. The location of the project is approximately 485-489 Manktown Rd, Waldoboro, ME (Map R14, Lot 44).

This project looks to create 1,338.48 kW DC / 999 kW AC of solar generation. The project will interconnect with the CMP owned utility at Manktown Rd. The project has been studied and approved to interconnect at the Manktown Substation by CMP.

The array would be approximately 525 ft east of Manktown Road, and approximately 450 ft from the nearest residential structure on Manktown Rd. The location of the array has been sited to leave a buffer of natural vegetation to the project. The solar modules are anticipated to occupy approximately 46,200 square feet of projected ground coverage. The project will utilize bifacial monocrystalline photovoltaic modules. The project will occupy approximately 4.25 acres, it will include 6.1 acres of tree clearing, and create 0.47 acres of new impervious area. The project proposes no impact to delineated wetlands.

The primary components of a ground mounted solar array are screws driven into the earth to serve as foundations, aluminum racking fastened to the foundations, and solar panels affixed to the racking. The rows of panels would be oriented almost due south, sloping 35 degrees. This will be a fixed array meaning there are no moving components. At their peak, the panels would stand approximately 10-12 ft above grade.

The rows of panels would be electrically connected via underground conduit and wire. The transformer, inverters, and AC switchboards would be positioned south of the array, adjacent to an access road connecting the array to Manktown Rd. The array will be surrounded by agricultural style fencing to meet the national electric code. Fencing will include gate access with emergency accessible knock-box. Signage will be limited to electrical componentry labeling and emergency contact information. There is no lighting proposed. Overhead wiring will be limited to the poles required to interconnect to CMP where protective devices and metering will be set. Following the required poles, utility will go underground for the remaining portion of the project.

In addition to Municipal approval, the project is also pursuing a stormwater permit-by-rule approval and Maine Solar Decommissioning permit approval from the Maine Department of Environmental Protection.



SYSTEM SUMMARY	
DC SYSTEM SIZE	1,349,920 kW DC
AC SYSTEM SIZE	999,000 kW AC
PROJECT TYPE	GROUND MOUNT
TILT / AZIMUTH	30° / 180°

EQUIPMENT SUMMARY		
ITEM	DESCRIPTION	QTY
MODULE	HANWHA Q CELLS, Q.PEAK DUO XL-G1S.3 590/BFG (590W)	2,288
INVERTER	CPS SCHI25KTL-DO/US-600	7
INVERTER	CPS SCHI25KTL-DO/US-600 WILL BE PROGRAMMED TO 124kW AC OUTPUT	1
DAS	TBD	1

NOTES: NOT FOR CONSTRUCTION.
LAYOUT SUBJECT TO CHANGE.
FOR INFORMATIONAL PURPOSES ONLY.



758 WESTBROOK STREET
SOUTH PORTLAND, ME 04106
(207) 221-6342

CLIENT:
JAMES KARVOUNIS

PROJECT ADDRESS:
MANKTOWN ROAD
WALDOBORO, ME

SYSTEM TYPE:
GROUND MOUNT
PHOTOVOLTAIC ARRAY

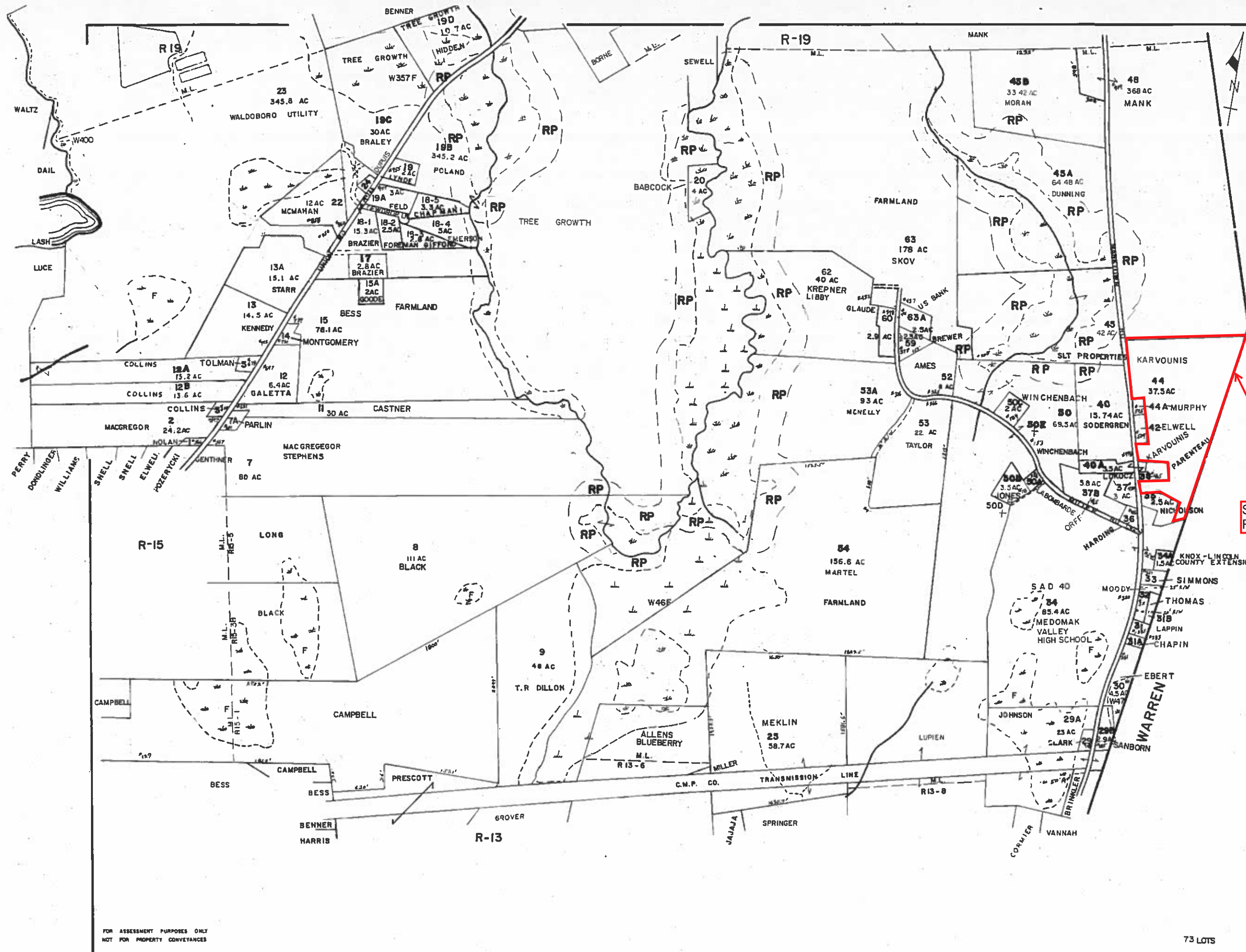
NOT FOR CONSTRUCTION

REV	DATE	BY	IS	STATE	ISSUED FOR INTERCONNECTION
001	08/23/2023				

DESIGNED BY: IS
PRINT SIZE: 24" x 36"
SCALE: 1" = 60'
DATE: AUGUST 23, 2023

SITE PLAN
E100

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DIAGRAM IS BASED ON THE INFORMATION
SUPPLIED AND IS SUBJECT TO CHANGE BASED
ON ACTUAL CONDITIONS. APPLICABLE EDITION
OF THE NATIONAL ELECTRIC CODE AND LOCAL
GOVERNMENTAL AUTHORITIES.



Subject Parcel:
R14, Lot 44

FOR ASSESSMENT PURPOSES ONLY
NOT FOR PROPERTY CONVEYANCES

73 LOTS

PROPERTY MAP
WALDOBORO, MAINE



R-14 4-1-2021

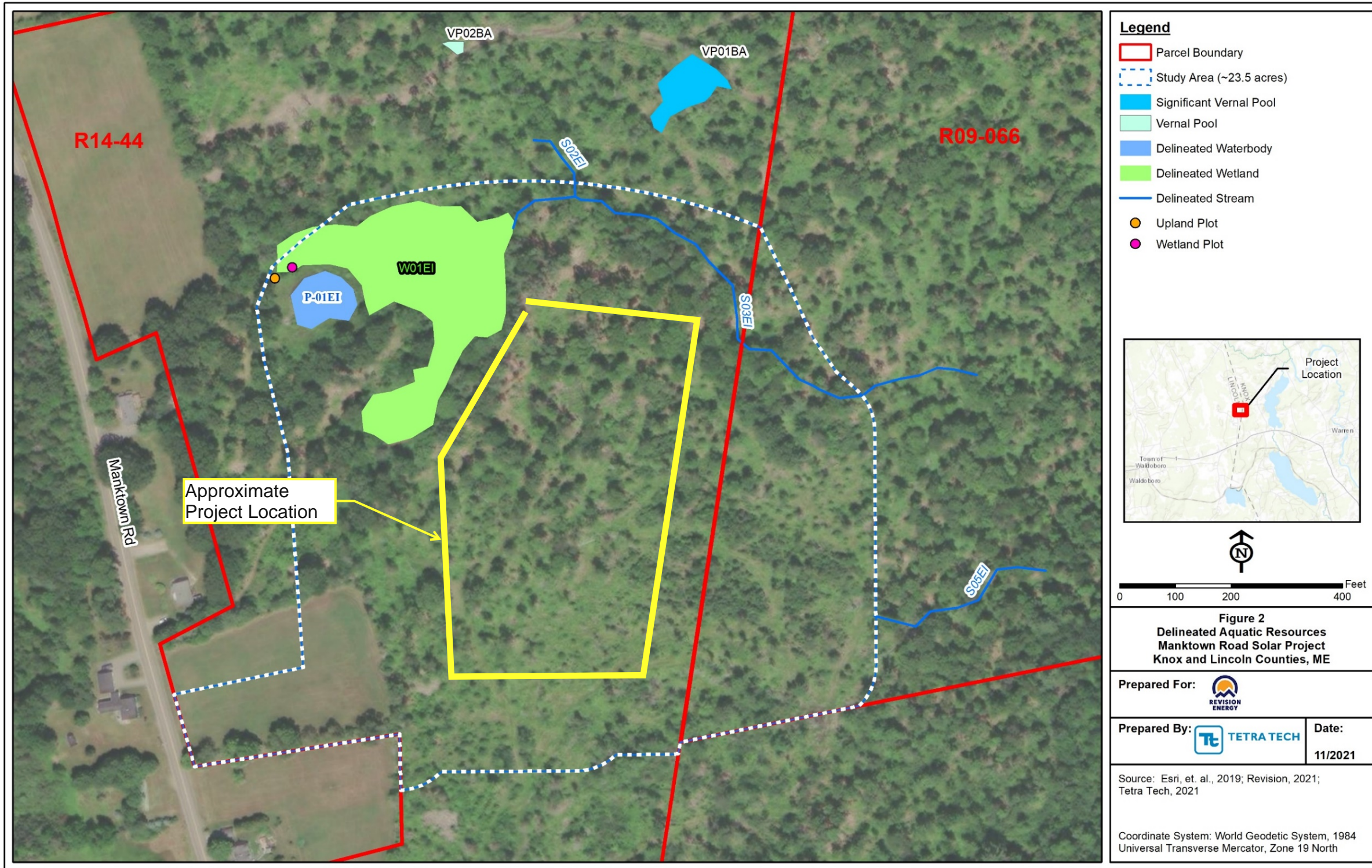


Figure 2. Wetland, Watercourse and Vernal Pool Resources Manktown Solar, Waldoboro and Warren, Maine.