



Cowlitz County Health & Human Services Department

Environmental Health Unit
207 Fourth Avenue North, Kelso, WA 98626
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www.co.cowlitz.wa.us/hhs

SOILS EVALUATION CHECKLIST

Project Address (if available): Green Mountain Rd. Parcel No.: WC2503047

Plat #: _____ Lot #: _____ of _____ Acreage 2.53 Method II Analysis Required (Indicate One): ☐ Yes ☒ No

Name: Nicolas & Mindy Patee Choose one: ☒ Owner ☐ Applicant ☐ Authorized Agent

Designer: Travis Buck #Bedrooms/GPD: NA Water Supply: ☐ Public ☒ Well (choose one)

Proposed System Type: Standard Gravity Flow System

Proposed Treatment Level (choose one): ☐ A ☐ B ☐ C ☐ D ☒ E ☐ N

DESIGNER INITIAL		STAFF INITIAL
<u>TB</u>	1. Completed EHU Master Application*, including parcel # and address (if available)	
<u>TB</u>	2. A Cowlitz County Planning Certification form had been completed (please circle: YES or NO)	
<u>TB</u>	3. Name & Address of property owner and applicant on each page of submission. [WAC 246-272A-0200(1)(a)(i)]	
<u>TB</u>	4. Each page of submission is stamped, signed, and dated by a Washington State Professional Engineer or Onsite Wastewater Designer (RCW 18.210.130, WAC 196-33-500) (The Soil Log/Evaluation Report may be completed by a soil scientist)	
<u>TB</u>	5. A site plan is attached and shows general topography and /or slope are shown on the parcel for the applicable areas	
<u>TB</u>	6. Site plan shows test-hole locations, primary and reserve drainfield areas, and the well or proposed well location with 100' radius around the well or proposed well.	
<u>TB</u>	7. Numbered Soil Log/Evaluation Report dated and attached with texture, structure, and other soil characteristics.	
<u>TB</u>	8. The site is ready for inspection: <ul style="list-style-type: none">• Clear and concise directions to inspection site are provided (if necessary).• Entrance to property is clearly marked• Primary and reserve areas are labeled**• Test pits are open and labeled with at least two soil logs within / immediately adjacent to the primary and reserve area; test pits match the soil log	N/A

Comments: _____

Permit Number (For official use) _____

* Not required for online application.

** If the site is constricted and horizontal setback are in question, we reserve the right to have the designer re-stake the area.

For more information, contact OMseptic@co.cowlitz.wa.us. Permit intake and issuance hours are Monday through Thursday, 7:30 am – 5:30 pm.



Advanced Septic Consulting Inc.

Site Evaluation & Soil Report for Parcel Number: WC2503047

November 14, 2025

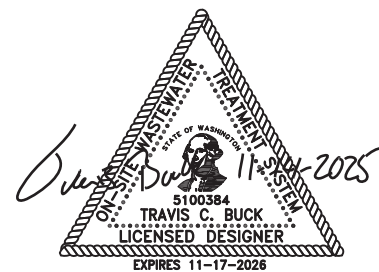
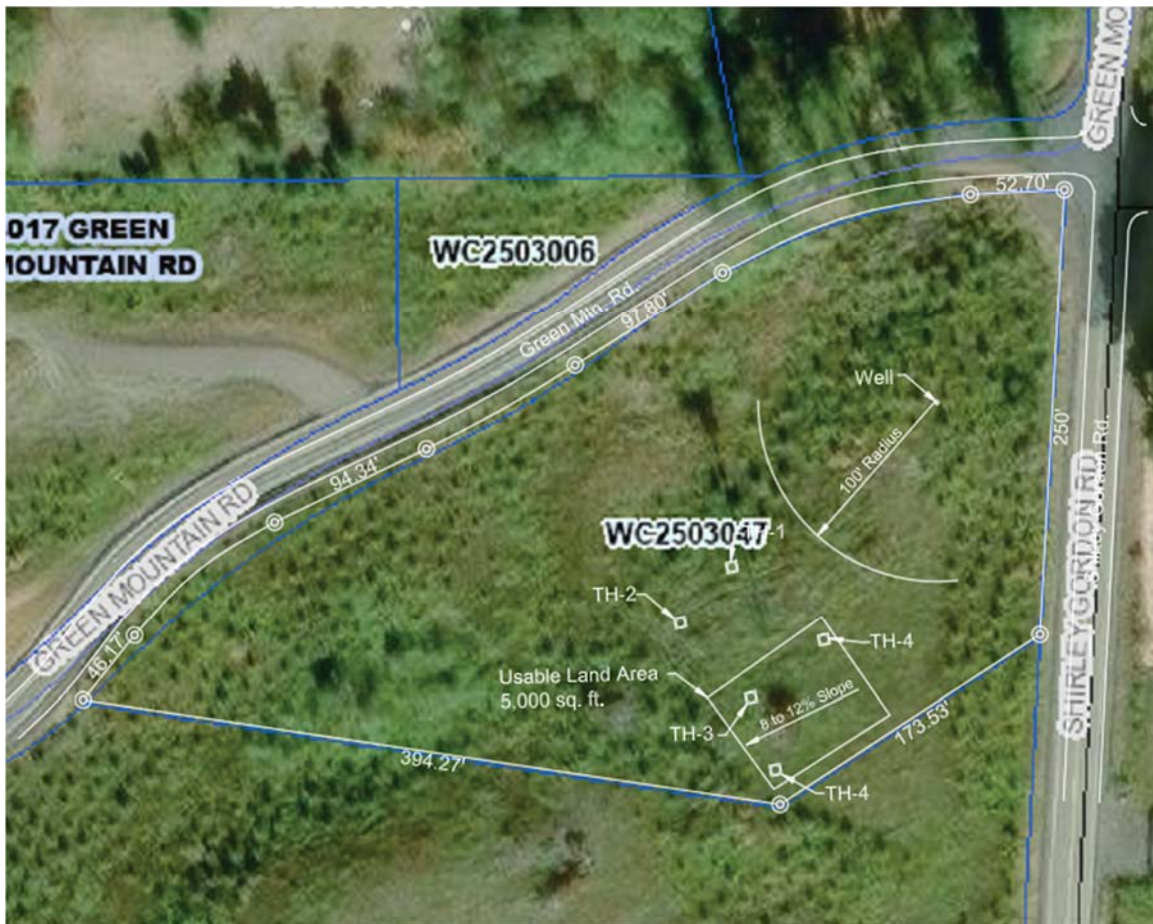
Design Number: 25-131

Customer: Nicolas & Mindy Patee, 1760 Down River Dr. Woodland, Washington 98674

Project Location: Shirley Gordon Rd. Kalama, Washington 98625

Section: 25 Township: 6N Range: 1W

Acres: 2.53 Parcel Number: WC2503047 Type of Water Supply: Existing Well





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November 14, 2025

Design Number: 25-131

Customer: Nicolas & Mindy Patee, 1760 Down River Dr. Woodland, Washington 98674

Project Location: Shirley Gordon Rd. Kalama, Washington 98625

Section: 25 Township: 6N Range: 1W

Parcel Number: WC2503047 Acres: 2.53

Distance to Water Supply: Existing Well 135' Northeast of Proposed Septic Area

Site Characteristics:

The site is located within USDA-NRCS mapping unit 124 – Mart Silt Loam. Typical water table is greater than 80". The site, however, is moderately well drained in the usable land area with moderate mottling and a restrictive layer noted ranging from 48 to 57 inches. Typical slope ranges from 8 to 24%. The usable land area is on a southwest facing slope with a slope ranging from 8 to 10%. Vegetation in the septic area mostly consists of field grass.

Soil Evaluation:

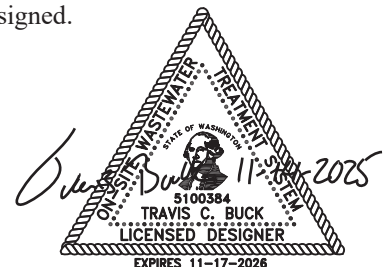
	<u>Depth</u>	<u>Soil</u>	<u>Type</u>	<u>Structure</u>	<u>Color</u>	<u>Roots</u>	<u>Mottling</u>
Test Hole #1	0-18"	SiL	5	3, m, gr	10yr4/3	m/m, f	None
	18-36"	SiL	5	2, m, sbk	10yr4/3	c/m, f	None
	36-38"	Fractured Rock					
Test Hole #2	0-17"	SiL	5	3, m, gr	10yr4/3	m/m, f	None
	17-42"	SiL	5	2, m, sbk	10yr4/3	c/m, f	None
	42-50"	siC	7	1, m, sbk	Mixed	None	Moderate
Test Hole #3	0-16"	SiL	5	3, m, gr	10yr4/3	m/m, f	None
	16-48"	SiL	5	2, m, sbk	10yr4/3	c/m, f	None
	48-52"	Fractured Rock					
Test Hole #4	0-12"	SiL	5	3, m, gr	10yr4/3	m/m, f	None
	12-54"	g, SiL	5	2, m, sbk	10yr4/3	f/ f	None
	54"+	Fractured Rock					
Test Hole #4	0-12"	SiL	5	3, m, gr	10yr4/3	m/m, f	None
	12-45"	g, SiL	5	2, m, sbk	10yr4/3	f/ f	None
	45-57"	CL	5	2, m, abk	Mixed	f/f	None

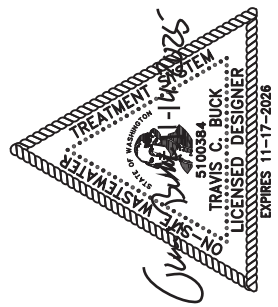
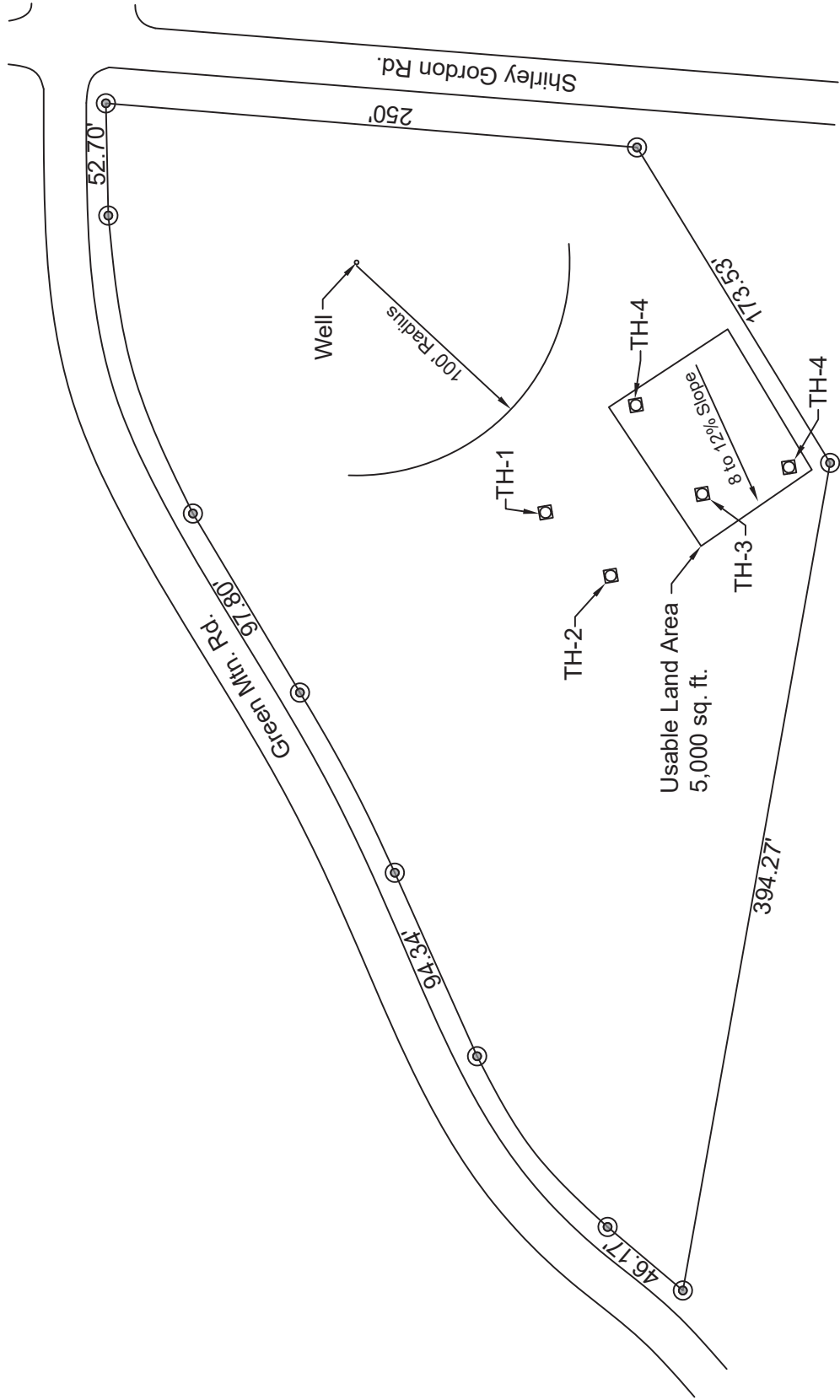
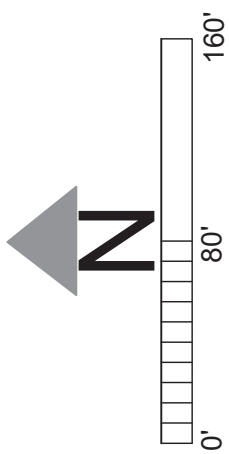
Design Requirements:

Based upon the soil evaluation performed on May 8, 2025 the soil onsite is a type 5 soil and requires a designation of 5,000 sq. ft. of usable land area available for septic designation.

The usable land area shown is adequate for a standard gravity flow system meeting treatment level E.

Other comments or concerns: The minimum usable land area required is based on table IV WAC 246-272A. Criteria for determining useable land area is based on WAC 246-272A required setbacks and does not guarantee that future studies performed as part of the environmental planning process will not have an impact on the useable land area. For septic design purposes, the land area required for septic design approval may be smaller or larger than the area shown on this report based on the number of bedrooms and type of system designed.





Nicolas & Mindy Patee Parcel Number: WC2503047 Kalama, Washington 98625	Advanced Septic Consulting Inc. 3210 Westside Hwy. Castle Rock, Washington 98611 Cell: 360-433-5476 E-Mail: dirtwhisperer@gmail.com	
	Design: 25-131	Date: 11/12/2025
	Drawing: 1	Scale: 1" = 80'