

## Appendix A

Figure 1.1 – Vicinity Area Map of California

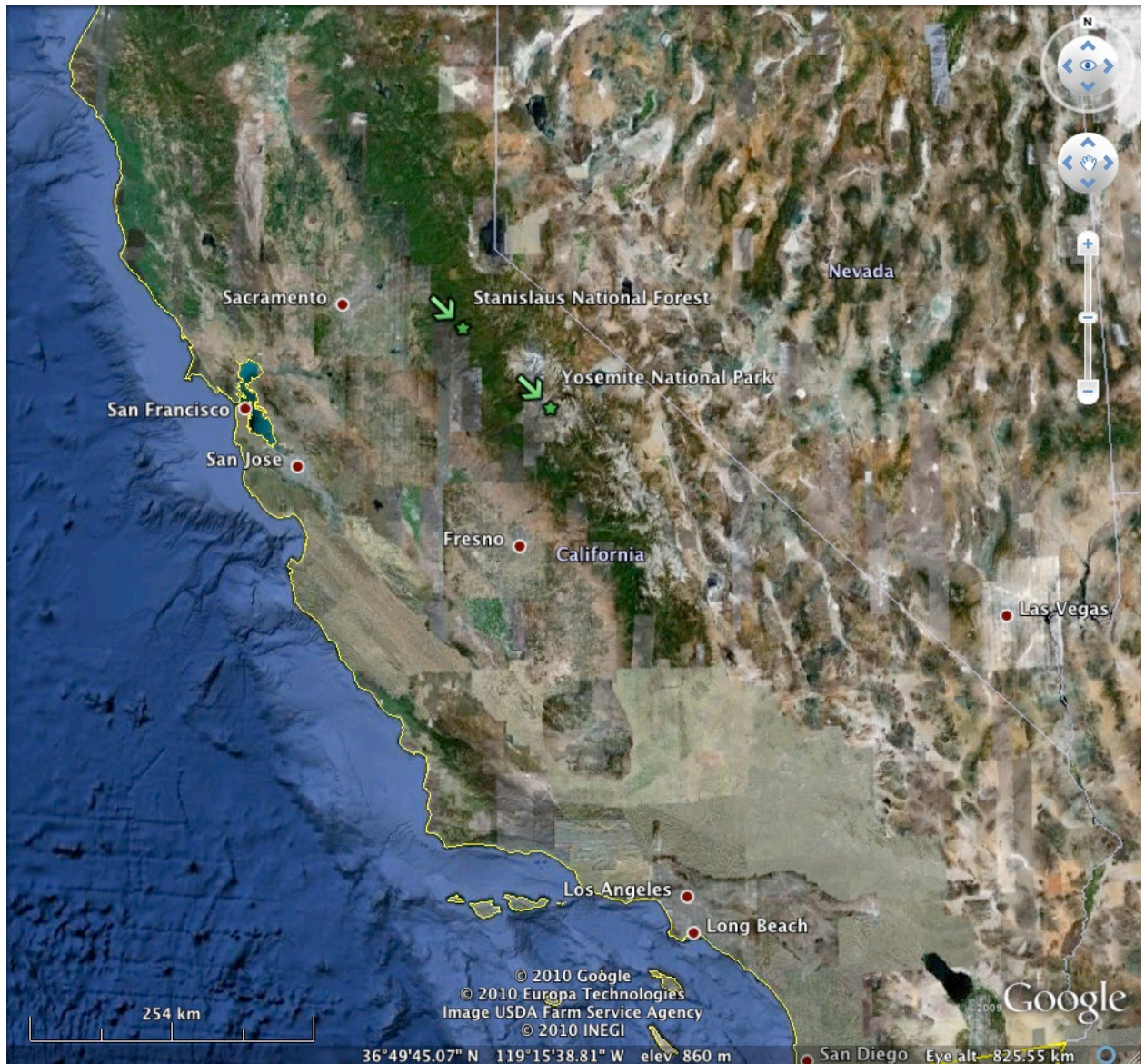
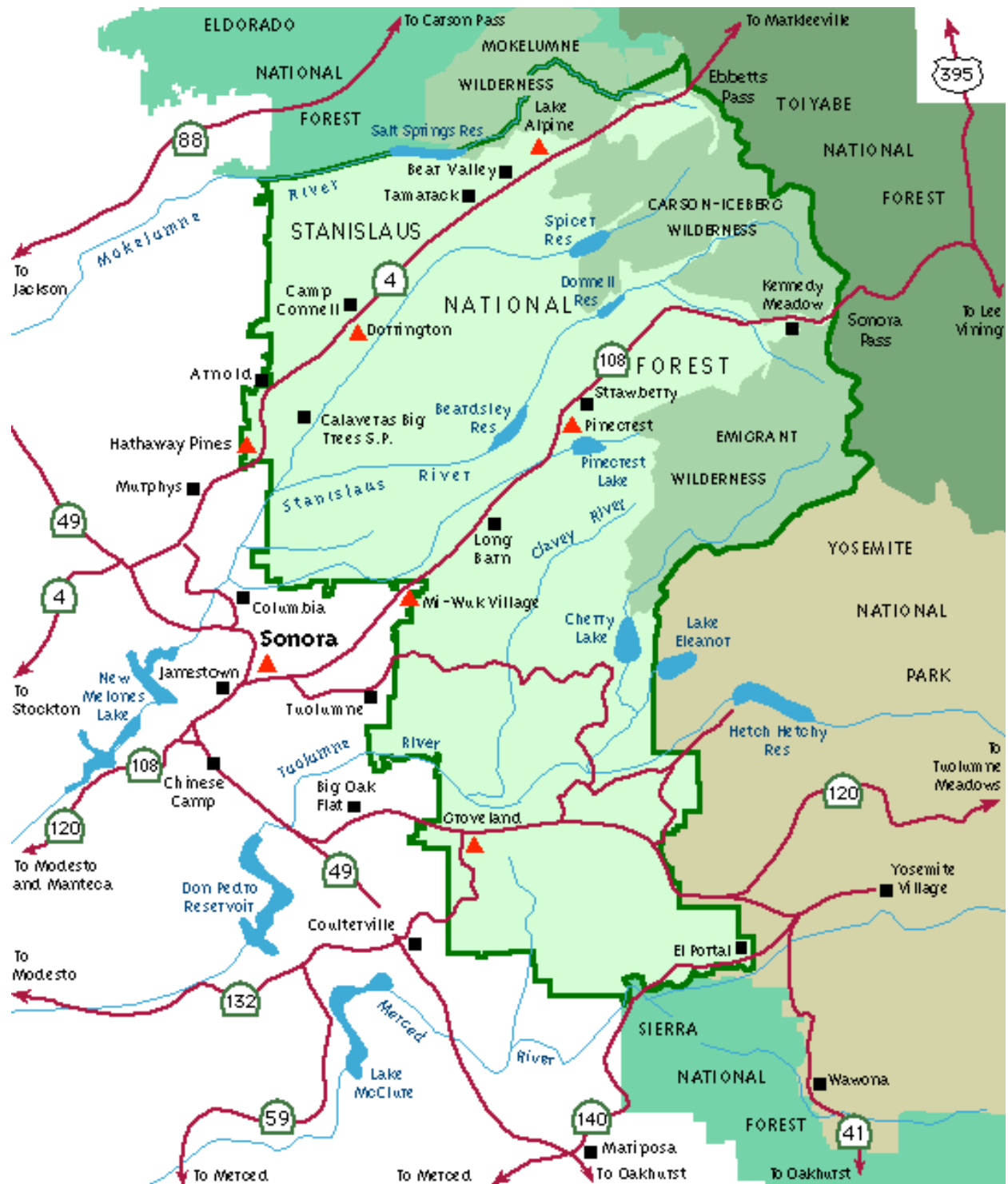


Figure 1.2 – Vicinity Area Map of the Stanislaus National Forest



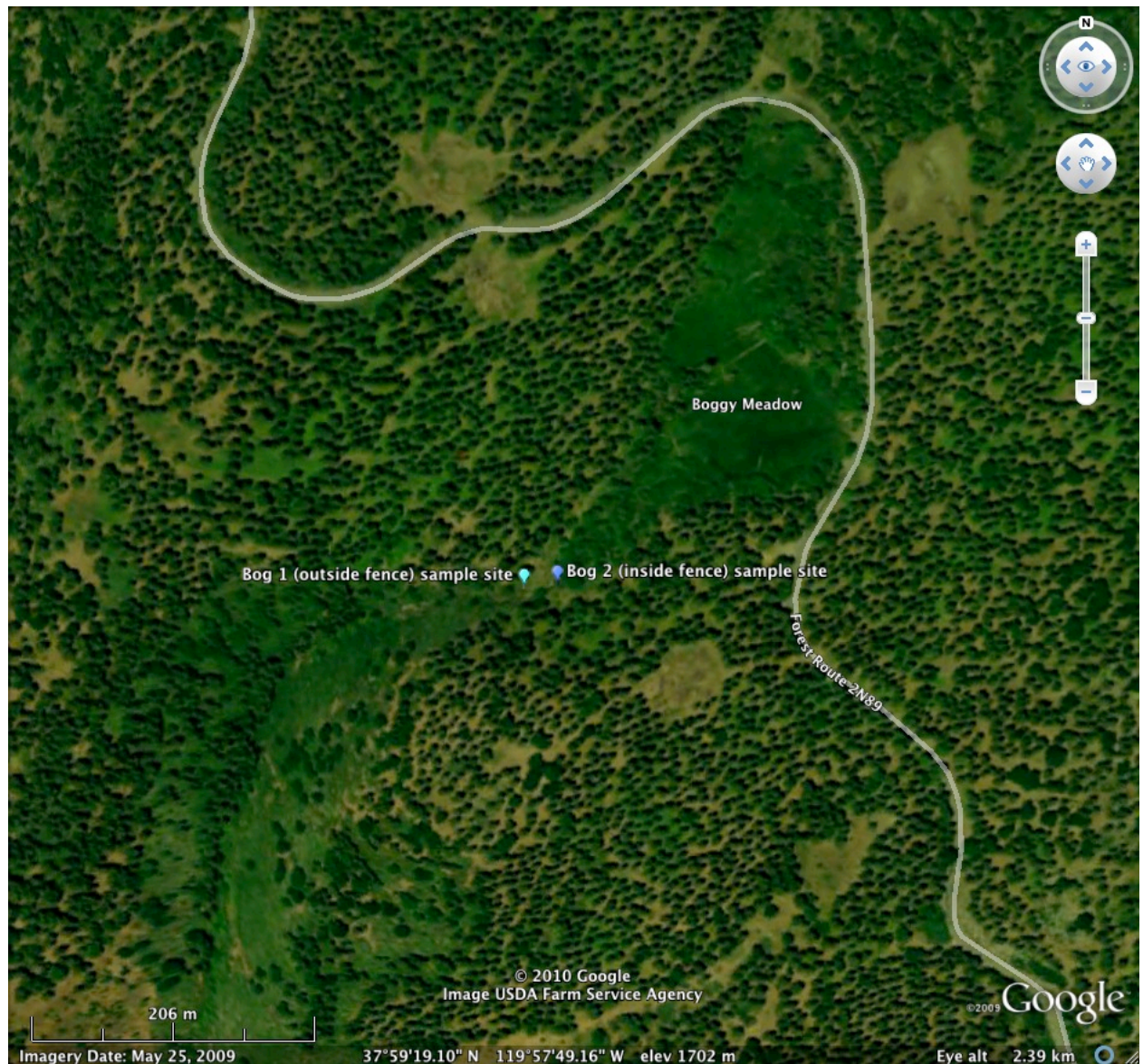


**Figure 1.3 Map of Sample Site adjacent to Jawbone Meadow**





**Figure 1.4 Map of Sample Sites for Bog 1 (outside fence / grazed) and Bog 2 (inside fence / ungrazed)**



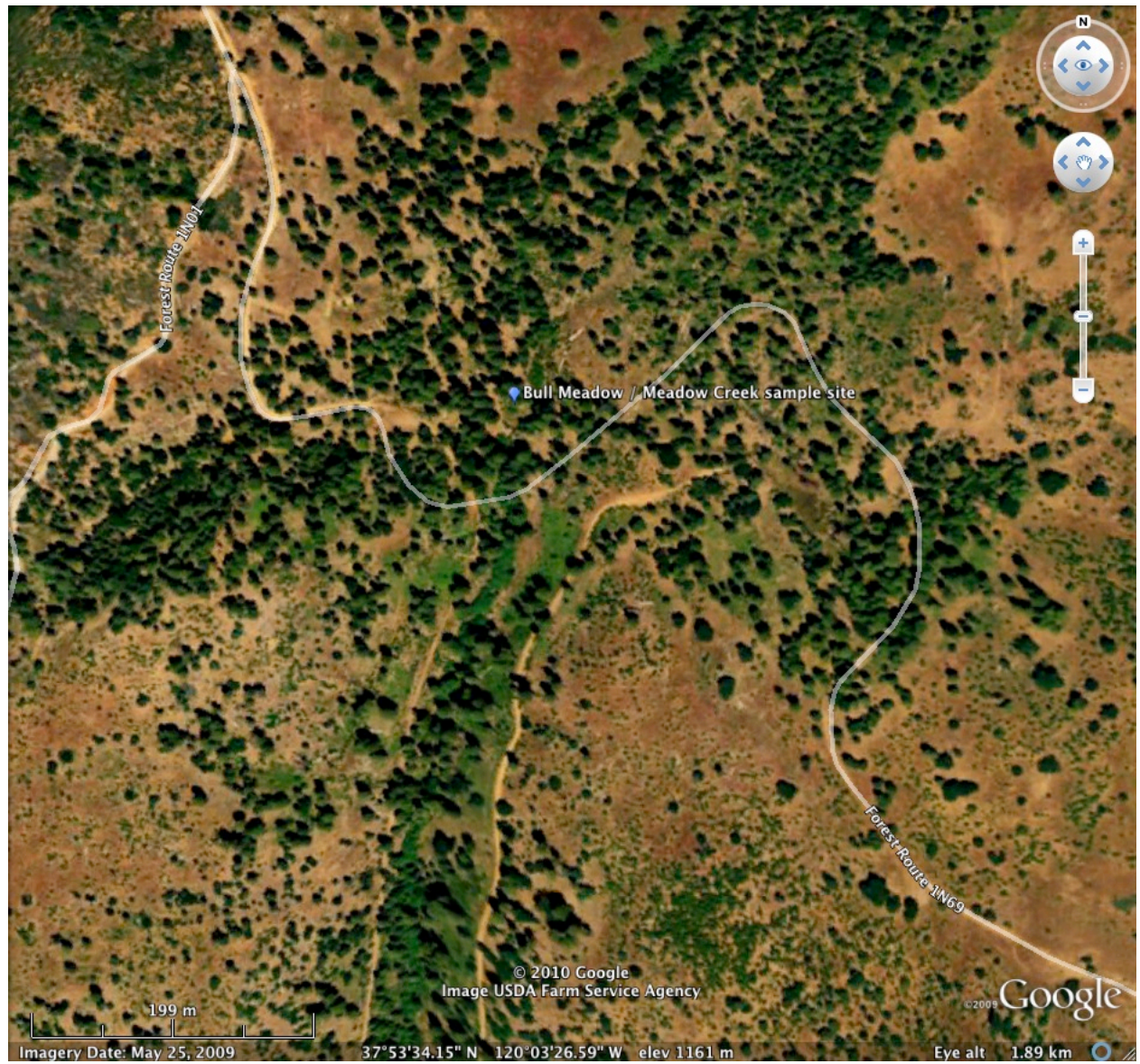


**Figure 1.5 Map of Sample Site associated with Lower Wolfin Meadow**





**Figure 1.6 Map of Sample Site associated with Bull Meadow**





**Figure 1.7 Map of Sample Site associated with Rose Creek**

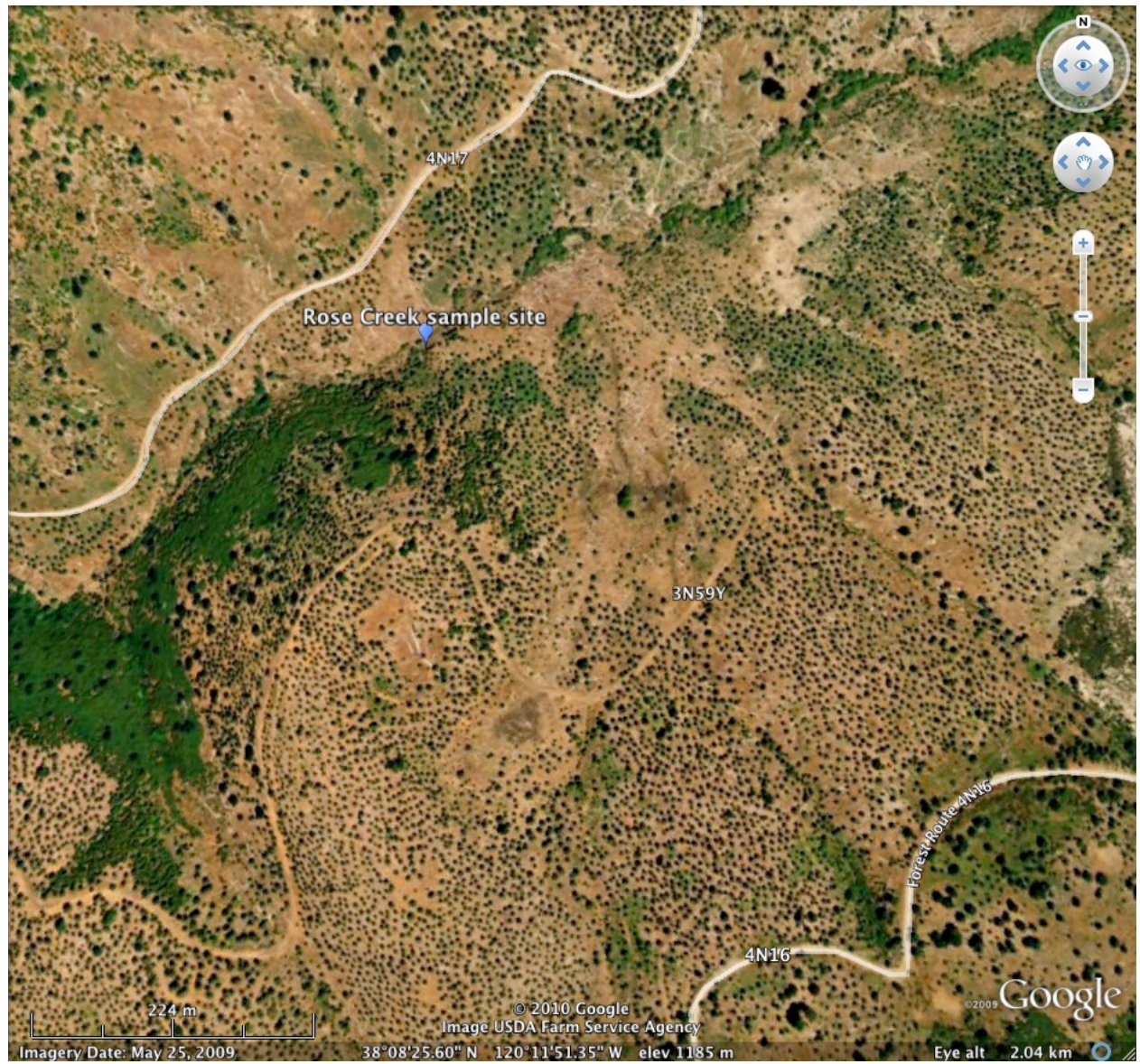


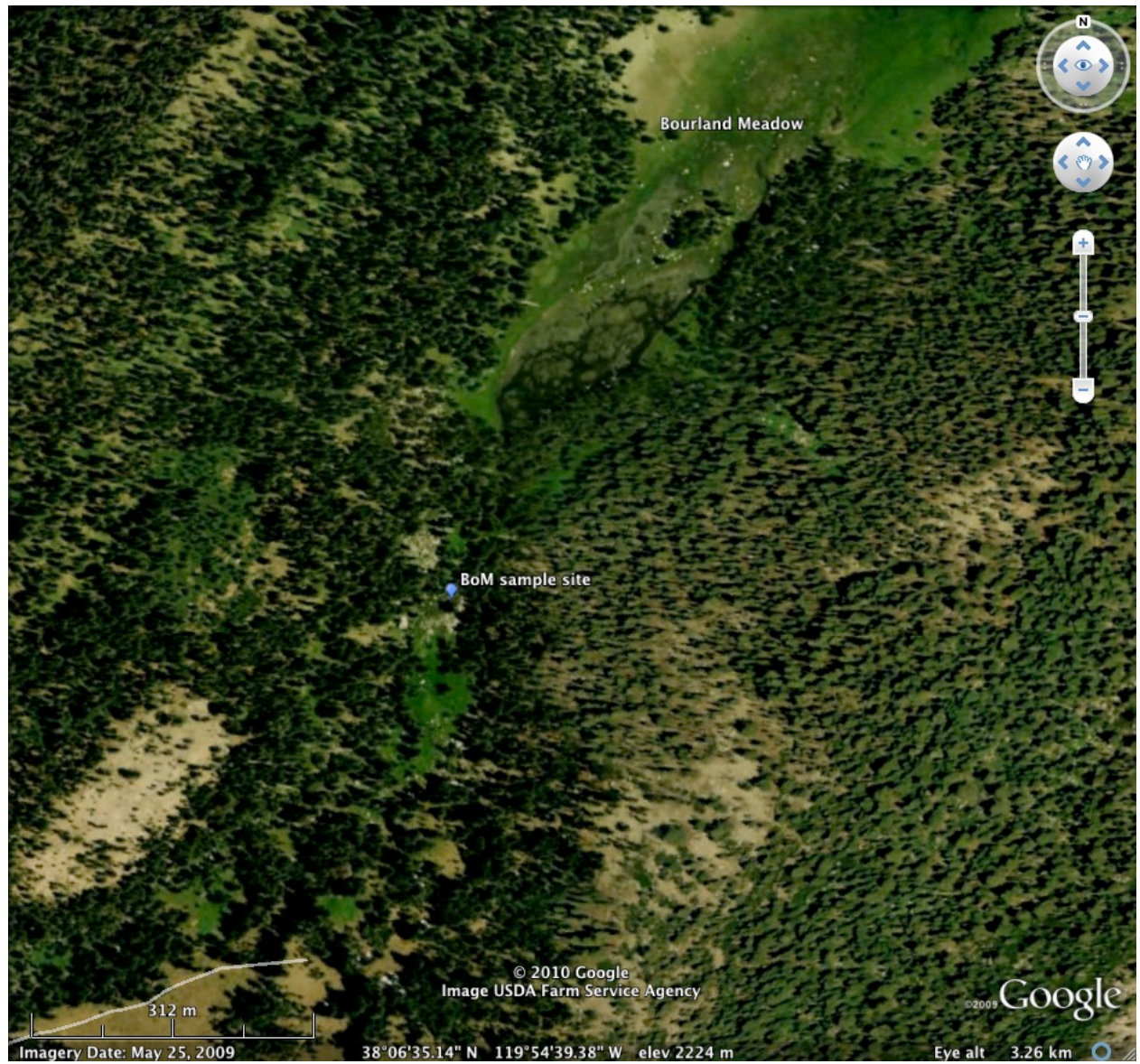


Figure 1.8 Map of Sample Sites for SM2 and SM3



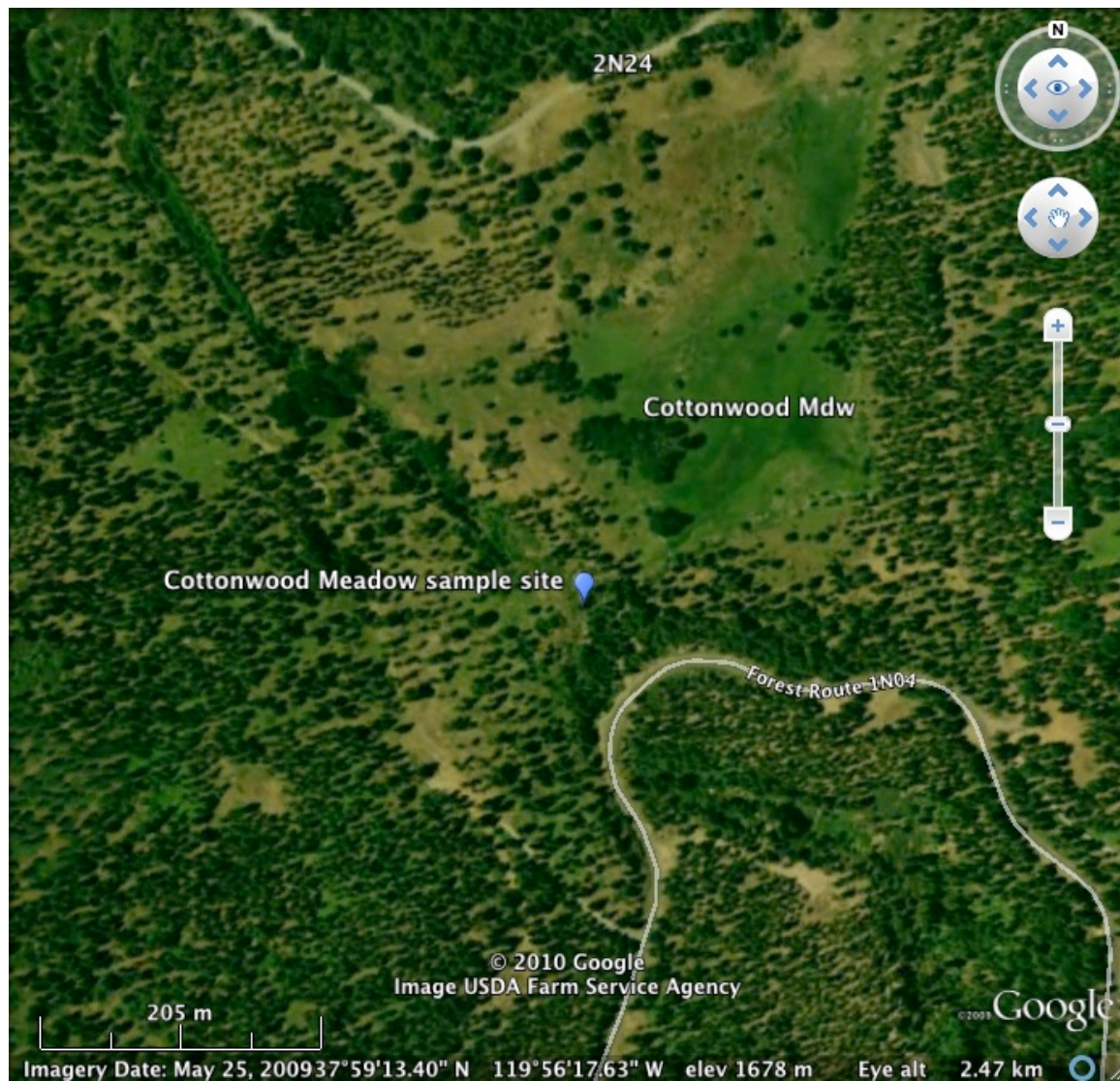


**Figure 1.9 Map of Sample Site associated with Bourland Meadow (control site)**





**Figure 1.10 Map of Sample Site associated with Cottonwood Meadow (control site)**





## Appendix B: Field Datasheet

### Field Datasheet

Sample # for site \_\_\_\_\_ before cows; after cows

Surface Water Ambient Monitoring Project in the Stanislaus National Forest

Waterbody or Stream Name \_\_\_\_\_ Arrival time \_\_\_\_\_

Location ID \_\_\_\_\_ Departure time \_\_\_\_\_

Samplers \_\_\_\_\_ Date \_\_\_\_\_

#### Site Observations:

Cloud Cover	No Clouds; Partly Cloudy; Cloudy Sky (overcast)
Precipitation	None; Misty; Foggy; Drizzle; Rain; Snow
Wind	Calm; Breezy; Windy
Water Murkiness	Clear Water; Cloudy Water; (>4" visibility) Murky; (<4" visibility)
Estimated Flow (relative)	Very Low; Low; Medium; High; Very High; Same
Sample color	None; Amber; Yellow; Green; Brown; Gray; Other
Sample odor	None; Algae smell; Chlorine; Sulfide; Sewage; Other
Presence	Algae or water plants; leaf litter; trash; Other
Habitat	Describe;
Bank Disturbance	Describe;
Cattle presence	Cows present; Cows absent; Fresh disturbance; Other

Comments:

Bacteria Sample Container ID \_\_\_\_\_ Collection time \_\_\_\_\_

Bacteria Sample Container ID \_\_\_\_\_ Collection time \_\_\_\_\_

Water Temperature \_\_\_\_\_

Turbidity sample collected: Yes; No

Comments:

Entered into dBase by \_\_\_\_\_ Date \_\_\_\_\_

## Appendix C: Change of Custody form

AquaLab Water Analysis P.O. Box 356 Twain Harte CA 95383										State Certification # 1359 (209) 586-3400 Fax: (209) 586-1492														
<b>BACTERIOLOGICAL EXAMINATION OF WATER</b>																								
CENTRAL SIERRA ENVIRONMENTAL RESOURCE COUNCIL P O BOX 396 TWAIN HARTE CA 95383										LAB TURBIDITY NTU=														
Phone: 586 7440 JOHN BUCKLEY										Date:					Sampler:									
Source										Reason					Type									
1) Surface/ Spring 2) Well Head 3) Well Distribution			4) Reservoir 5) Distribution 6) Treatment Plant							A) Routine B) Repeat C) Special					C) Total Coliform F) Fecal Coliform H) Heterotrophic Plate Count E) <i>E. coli</i>									
Collection Data										Five Portions										Presence/Absence				
Lab ID Bottle ID	Time	Location	CL2	Source	Reason	Type	Vol mL	# Positive Tubes								Coliform			CFU mL 35 C @ 48HR					
								Prsmp		Confirmed						P/A or MPN								
								24	48	24	24	48	48	#	Total	Fecal	E.coli							
Notification/Comments:										Set-Up: Date/Time/By:														
										Completed: Date/By:														



## Appendix D: SOP

Protocols for measuring pH, water temperature, specific conductivity, turbidity, and fecal bacteria are measured using protocols outlined in the EPA document, *Volunteer Stream Monitoring: A Methods Manual*.

The appropriate sections are:

2.3 Safety Considerations,

Chapter 5 Water Quality Conditions-Quality Assurance, Quality Control, and Quality Assessment,

5.11 Fecal Bacteria, and

Chapter 6 Managing and Presenting Monitoring Data,

6.1 Managing Volunteer Data,

6.2 Presenting the Data,

6.3 Producing Reports.

CSERC will provide the appropriate sections of, *Volunteer Stream Monitoring: A Methods Manual* upon request, or they can be viewed by going to: [www.epa.gov](http://www.epa.gov) and searching for:

USEPA 1997. *Volunteer Stream Monitoring: A Methods Manual*. EPA 841-B-97-003.  
Office of Water, U.S. Environmental Protection Agency, Washington, DC.