

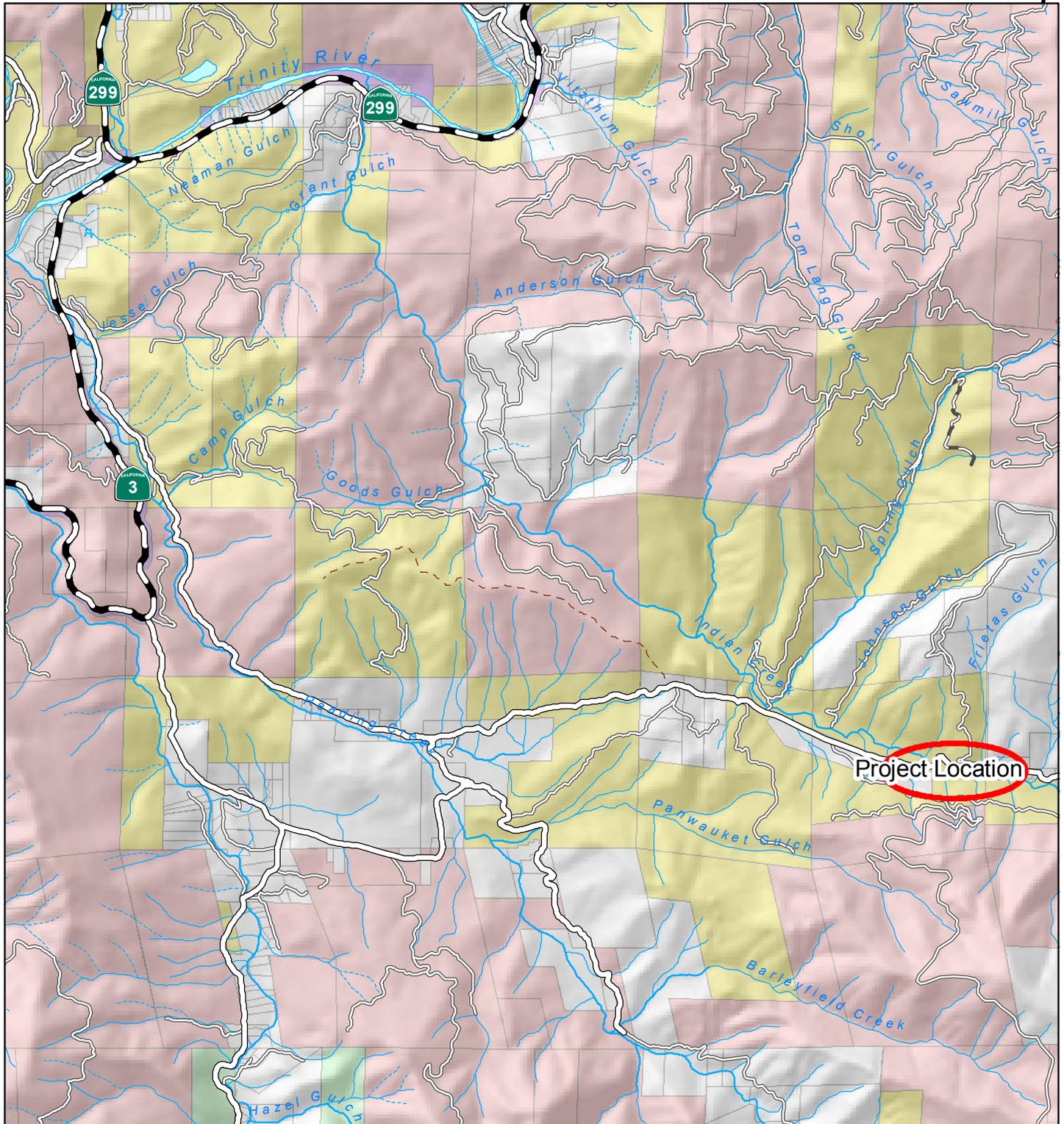
Coastal Conservancy Proposition 1 Proposal - Section 8 Project Maps and Graphics
Indian Creek Habitat Connectivity and Restoration Project - Yurok Tribe

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Indian Creek Phase II

Location Map



Ownership

- | | | | |
|--|------------------------|--|-----------------------|
| | Private / Other | | State of California |
| | Private - Ag. (APZ) | | Bureau of Land Mgmt. |
| | Private - Timber (TPZ) | | Bureau of Reclamation |
| | County of Trinity | | U.S. Forest Service |

0 0.25 0.5 Miles



Figure 3.0

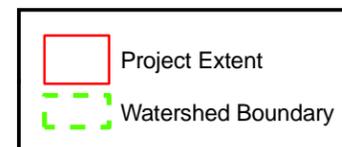
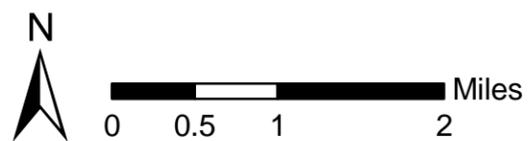
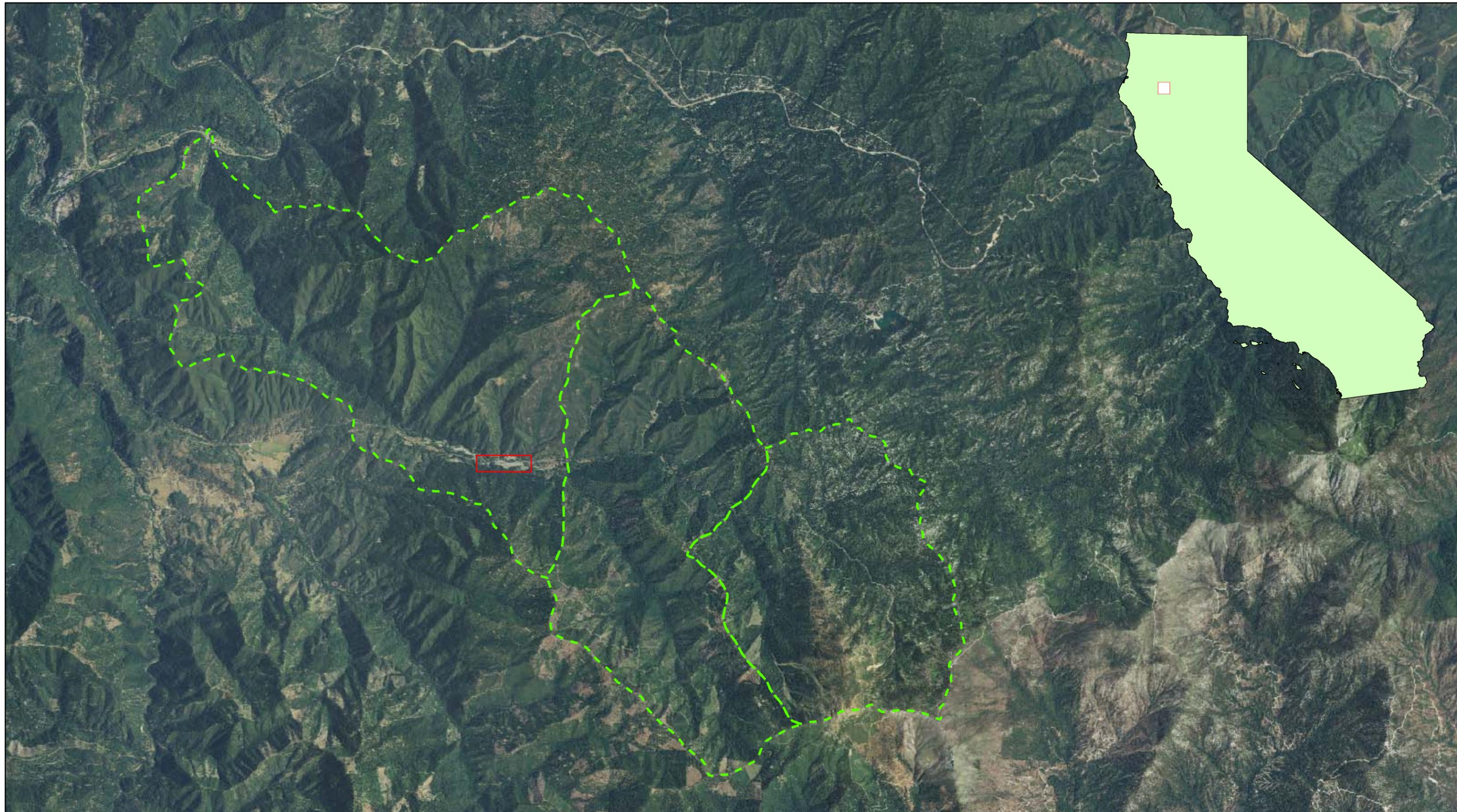


figure 3-1
Indian Creek

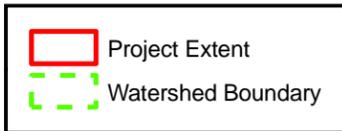
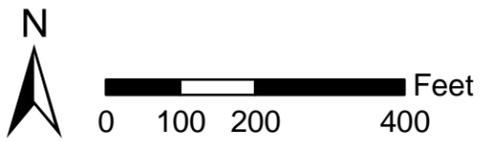
Indian Creek Watershed and Project Site

PWA Ref# - 2035.00





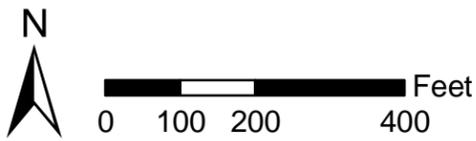
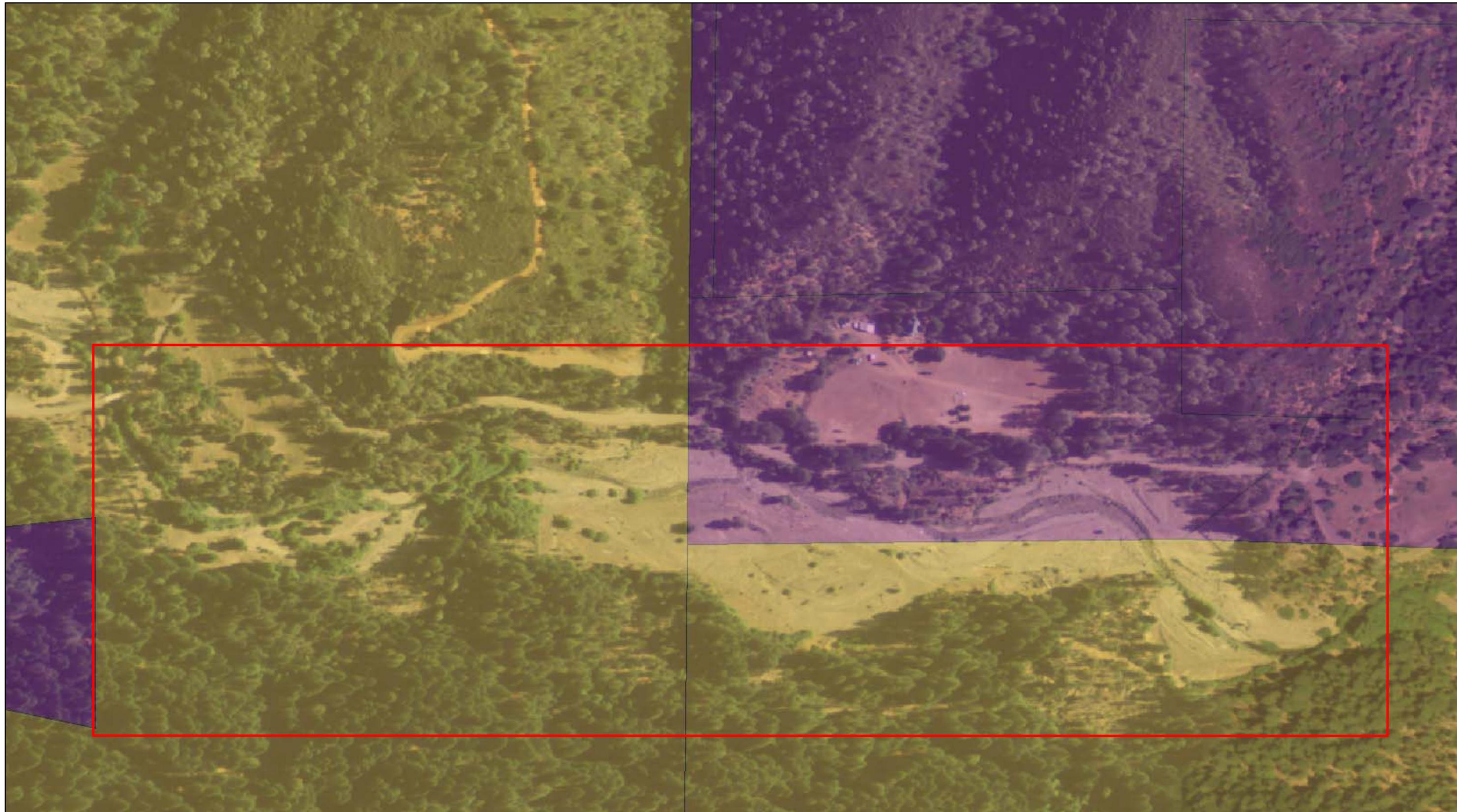
figure 3-2
Indian Creek



PWA Ref# - 2035.00

Project Site Extents





 Project Extents

Property Parcels

Owner

 BLM

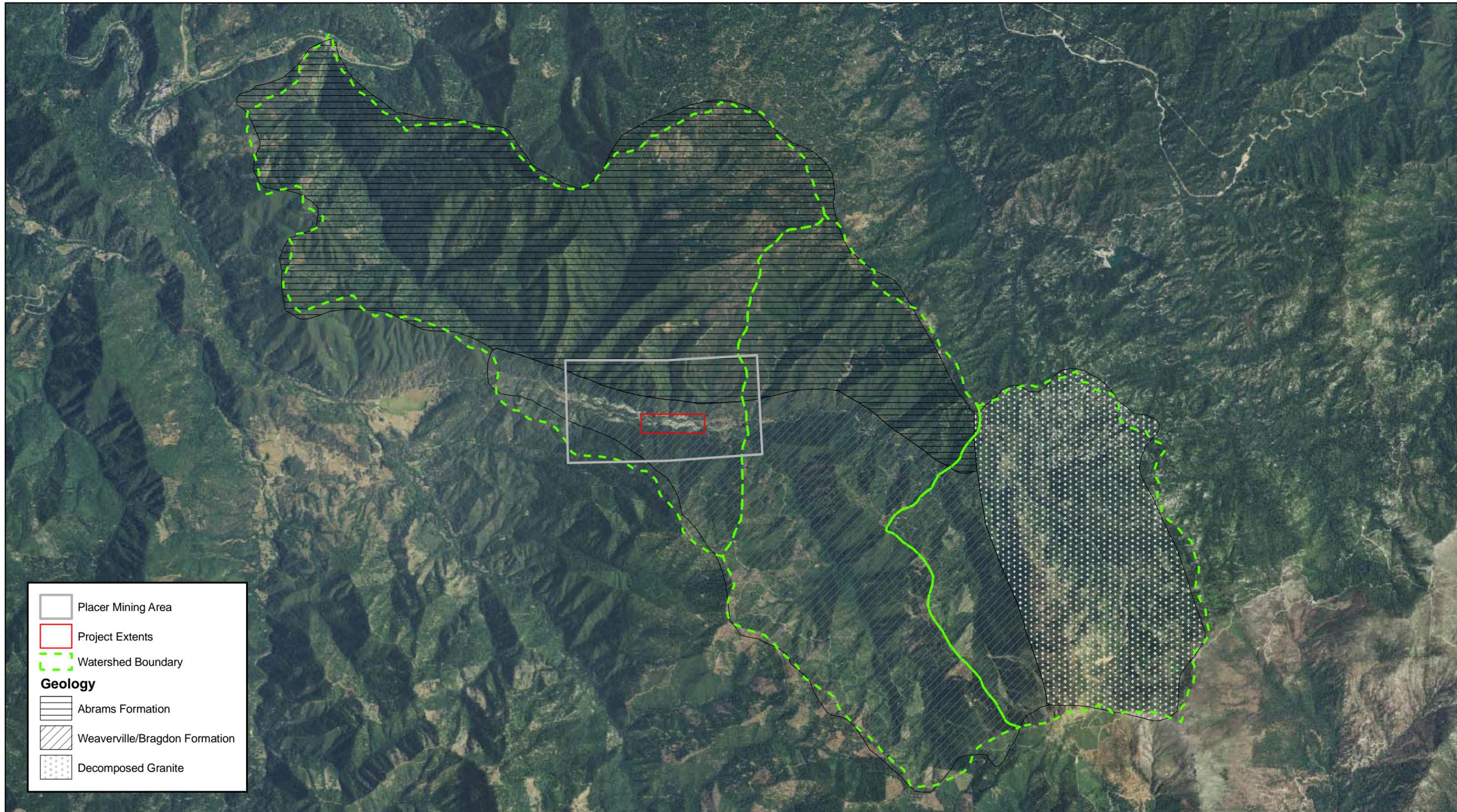
 Private

figure 3-3
Indian Creek

Project Site Property Parcels

PWA Ref# - 2035.00





Legend:

- Placer Mining Area (White outline)
- Project Extents (Red outline)
- Watershed Boundary (Dashed green line)
- Geology**
- Abrams Formation (Horizontal black lines)
- Weaverville/Bragdon Formation (Diagonal black lines)
- Decomposed Granite (White crosses)

Source: Assessment of Hoadley Gulch, Indian Creek, Deadwood Creek, and Rush Creek Watersheds - USDA (1990)

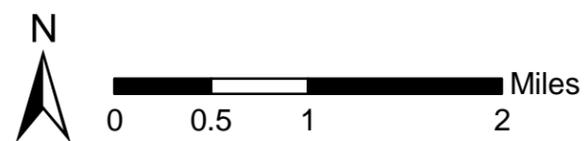
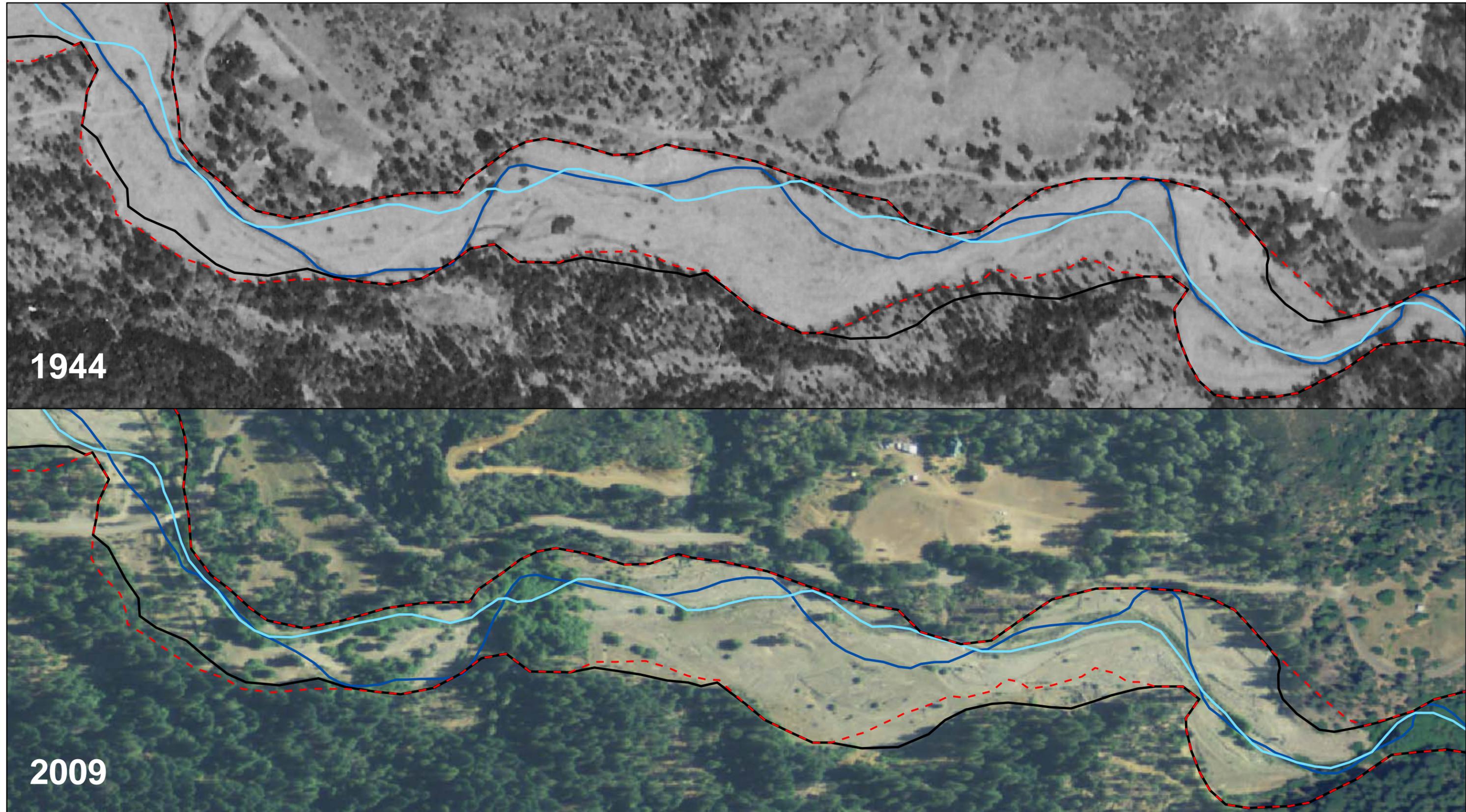


figure 3-4
Indian Creek

Indian Creek Watershed Geology

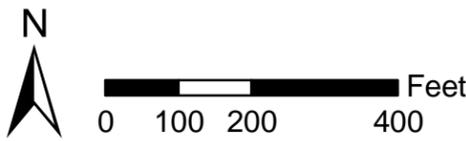
PWA Ref# - 2035.00





1944

2009



- 1944 CMZ
- 2009 CMZ
- 2009 Channel
- 1944 Channel

figure 5-1
Indian Creek

Site Comparison: 1944 and 2009

PWA Ref# - 2035.00





Indian Creek Channel
YEAR

- 1944
- 1956
- 1969
- 1983
- 1988
- 1993
- 2005
- 2009

N
0 100 200 400 Feet

figure 5-2
Indian Creek

Channel Evolution: 1944 through 2009

PWA Ref# - 2035.00





Right Boundary



Left Boundary

figure 5.3
Indian Creek

Channel Migration Zone Boundary

PWA Ref# 2035-00





0 100 200 400 Feet

- 1944 Channel Meander Zone
- 1969 Channel Meander Zone
- 1993 Channel Meander Zone
- 2009 Channel Meander Zone

figure 5-4
Indian Creek

Channel Migration Zone Evolution: 1944 through 2009

PWA Ref# - 2035.00



--- 1944 Channel
--- 1969 Channel
--- 1988 Channel
--- 2009 Channel

Vegetation Growth

Year

1944
1969
1983
1993
2005
2009

Persistent Vegetation

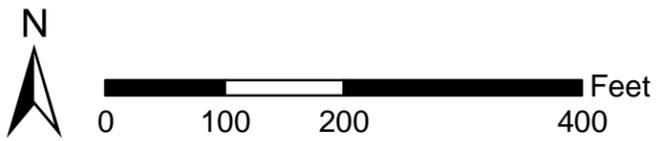
Year

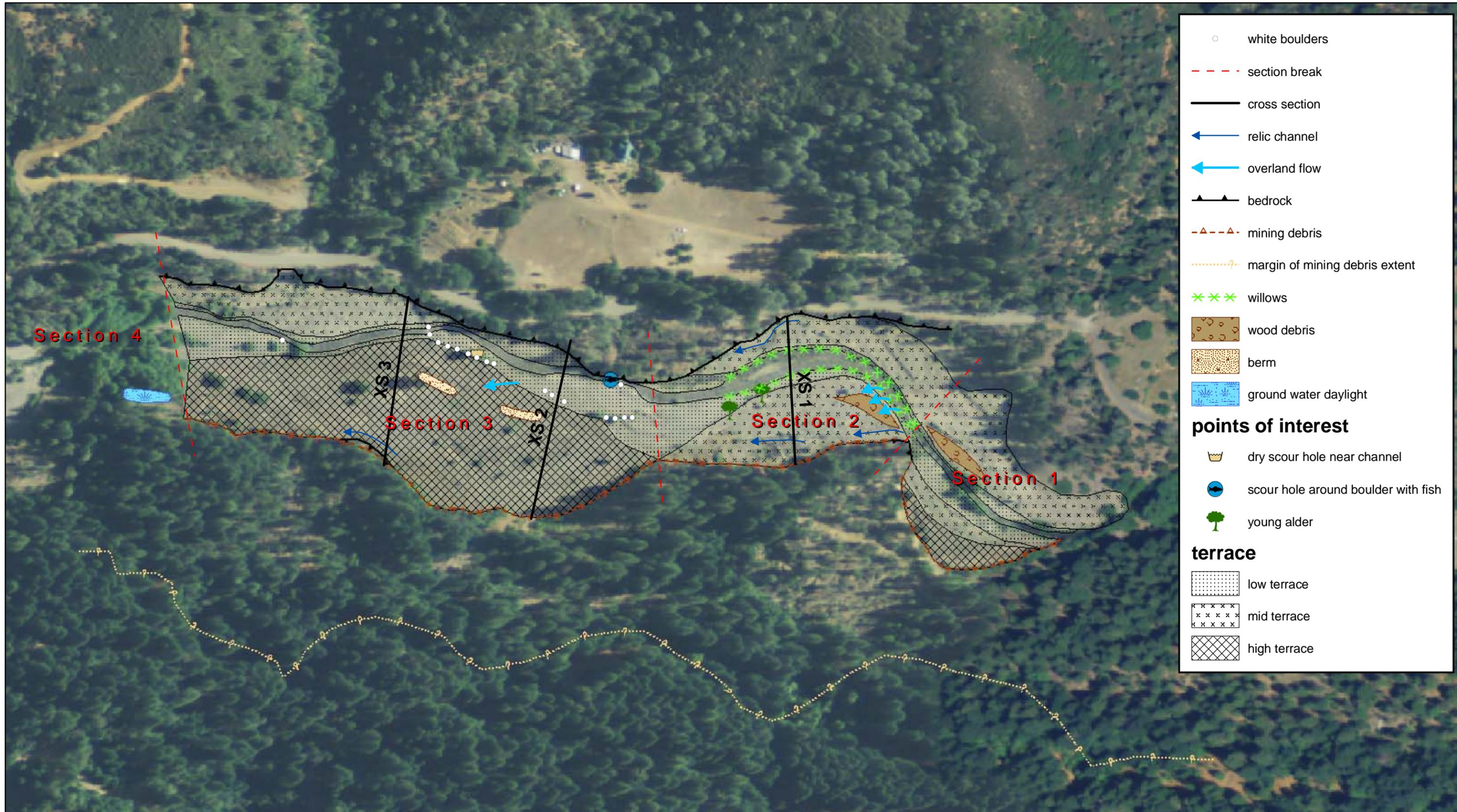
1944
1969
1983
1993

figure 5-5
Indian Creek

Vegetation Evolution: 1944 through 2009

PWA Ref# - 2035.00





- white boulders
- - - section break
- cross section
- ← relic channel
- ← overland flow
- ▲ bedrock
- ▲-▲- mining debris
- margin of mining debris extent
- * * * willows
- wood debris
- berm
- ground water daylight

points of interest

- dry scour hole near channel
- scour hole around boulder with fish
- young alder

terrace

- low terrace
- mid terrace
- high terrace

figure 7-1
Indian Creek

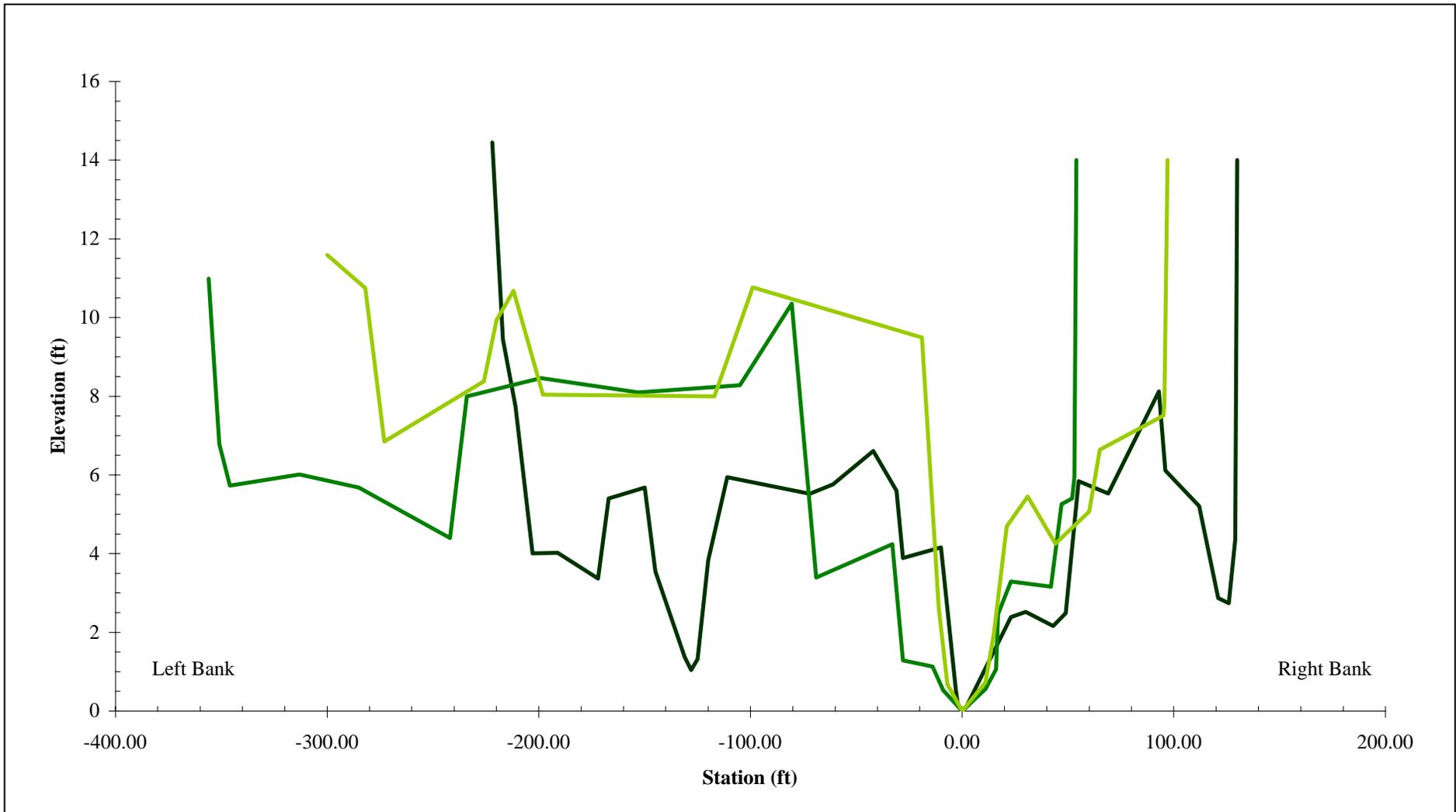
GIS Rendering of Field Reconnaissance Notes

PWA Ref# - 2035.00



N

0 200 400 800 Feet



— Cross Section 1
— Cross Section 2
— Cross Section 3

figure 7-2
Indian Creek

Surveyed Cross Sections

PWA Ref# 2035 - 00



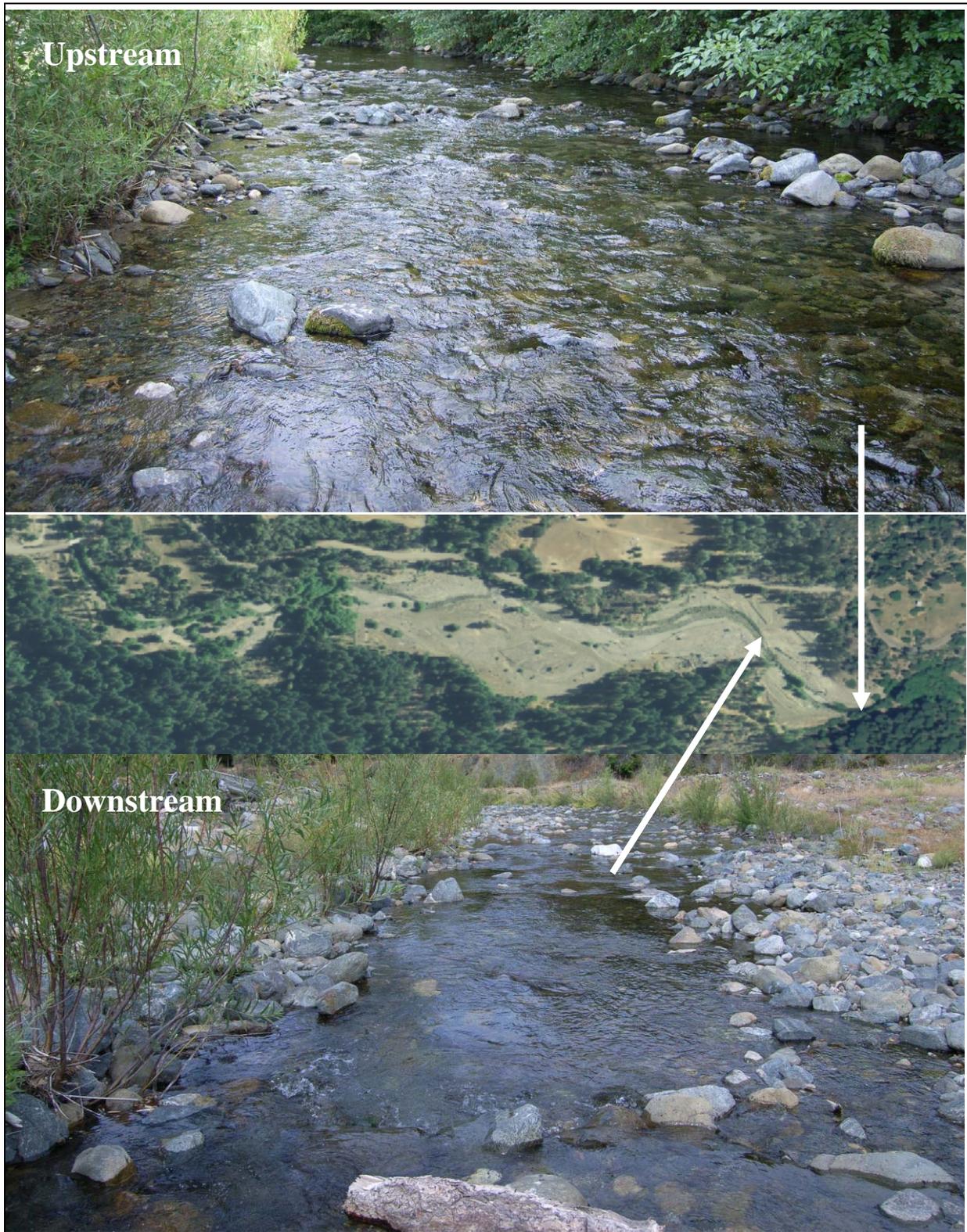
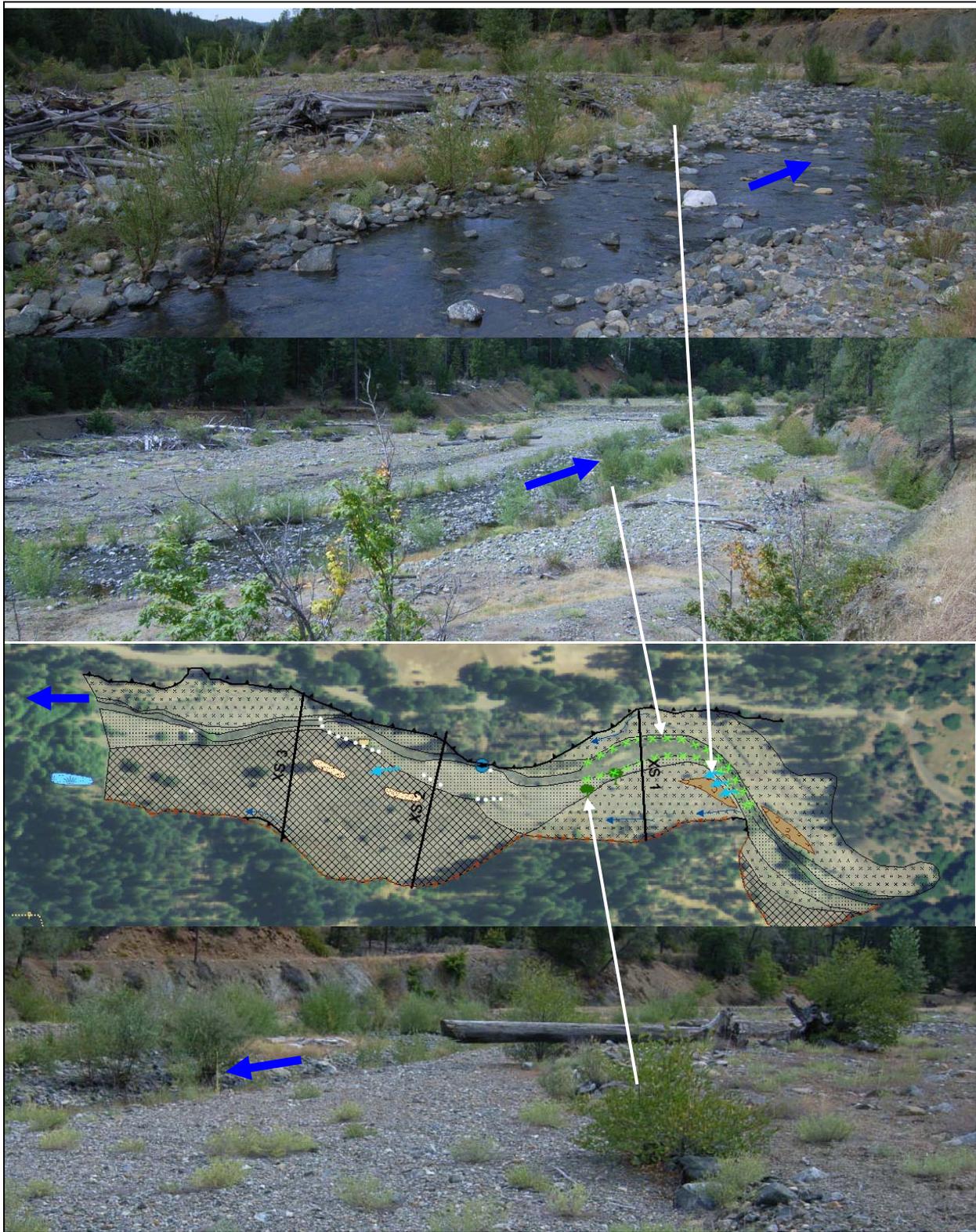


figure 7.3
Indian Creek

Channel Flow Change at Upstream Section

PWA Ref# 2035-00





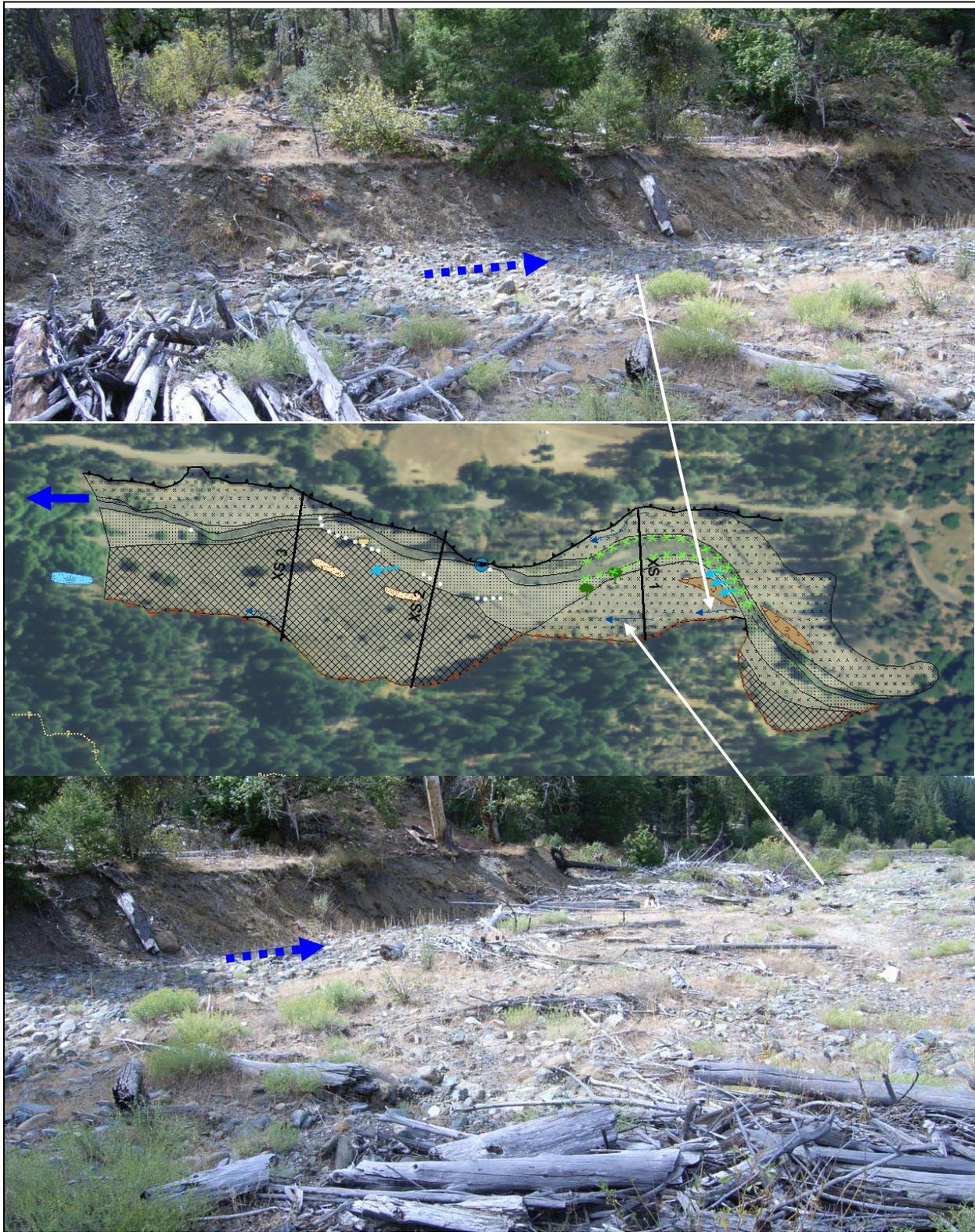
 Flow direction

figure 7.4
Indian Creek

Established Vegetation at Upstream Section

PWA Ref# 2035-00





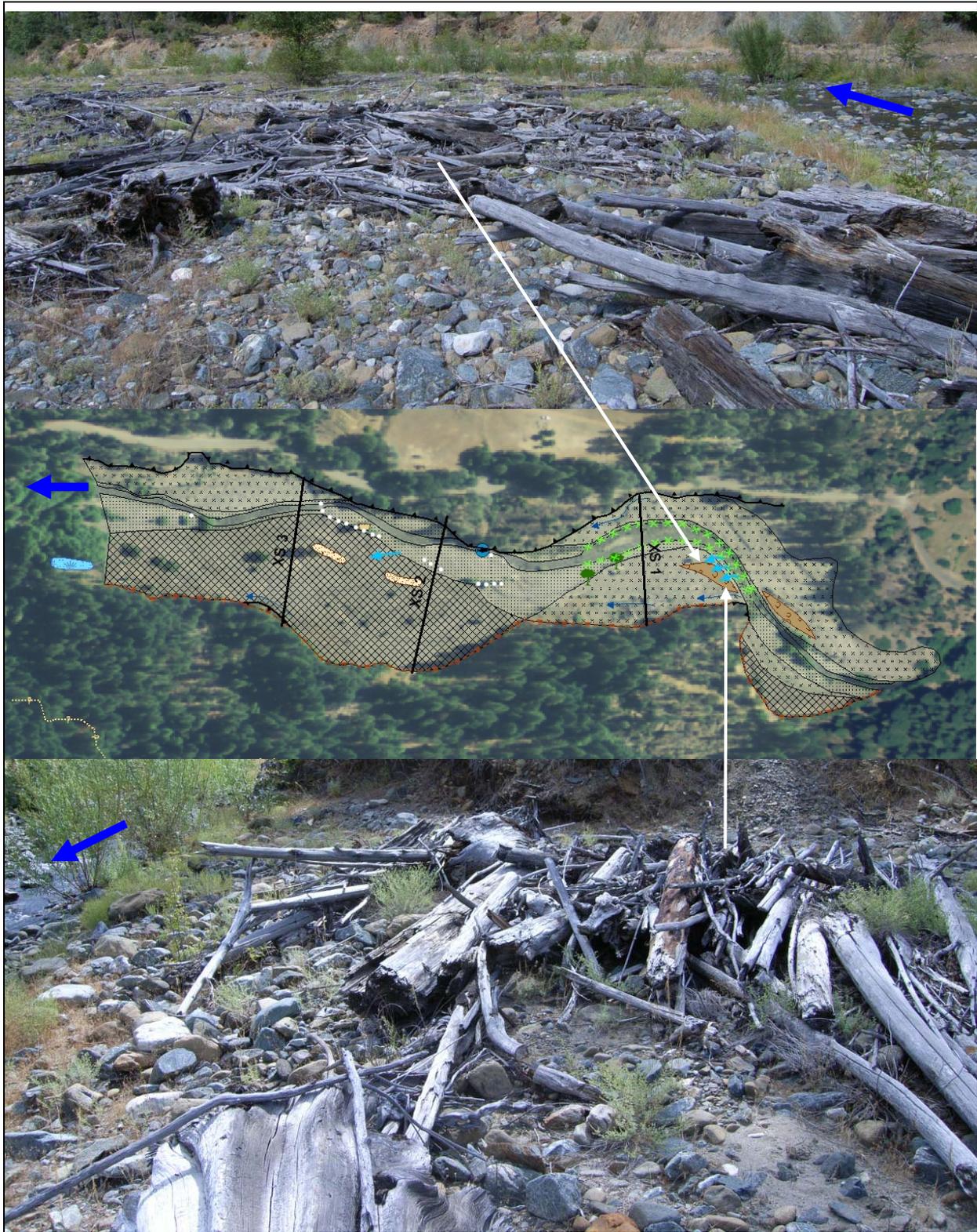
 Flow direction

figure 7.5
Indian Creek

Relic/Overflow Channel at Upstream Section

PWA Ref# 2035-00





 Flow direction

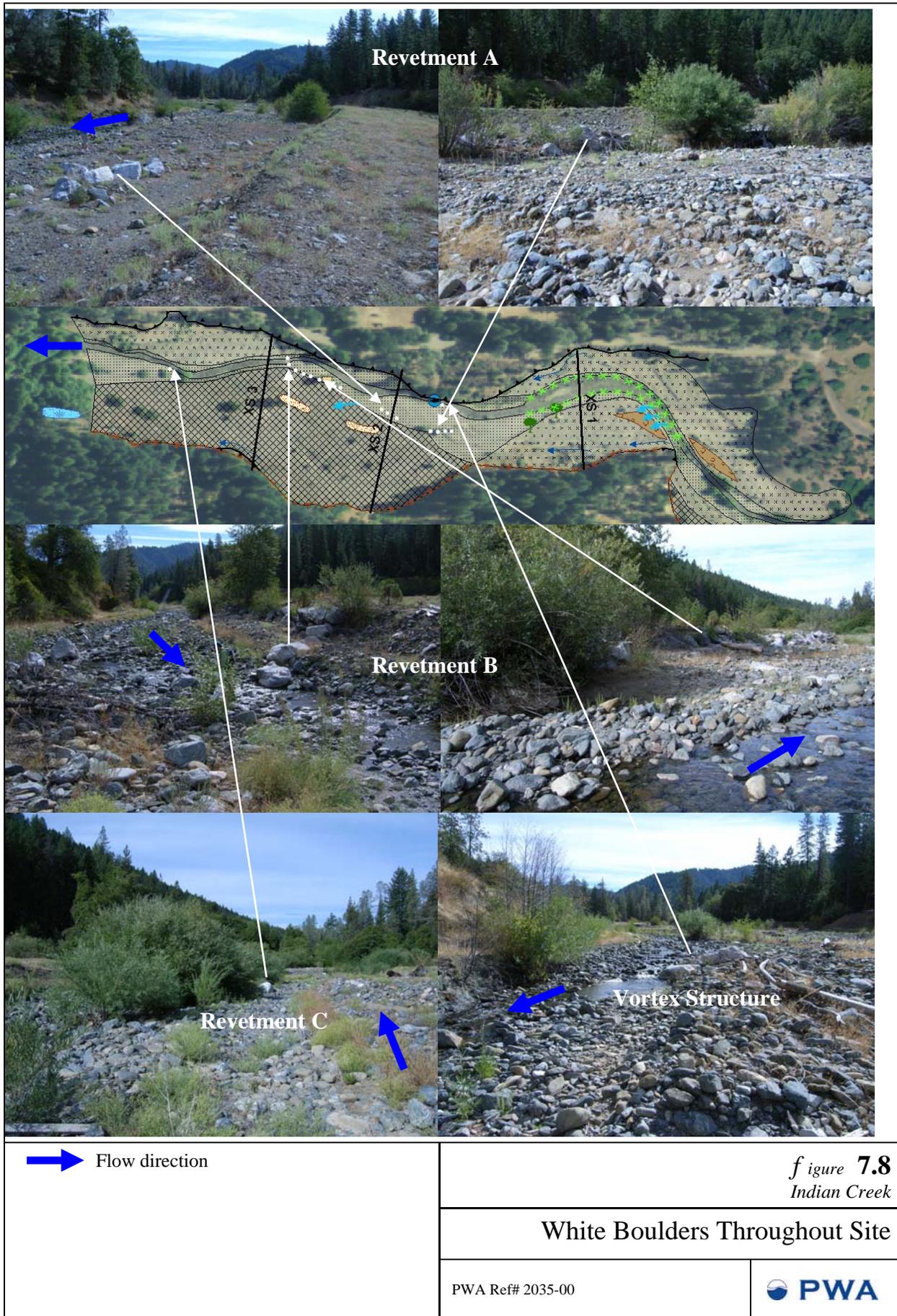
figure 7.6
Indian Creek

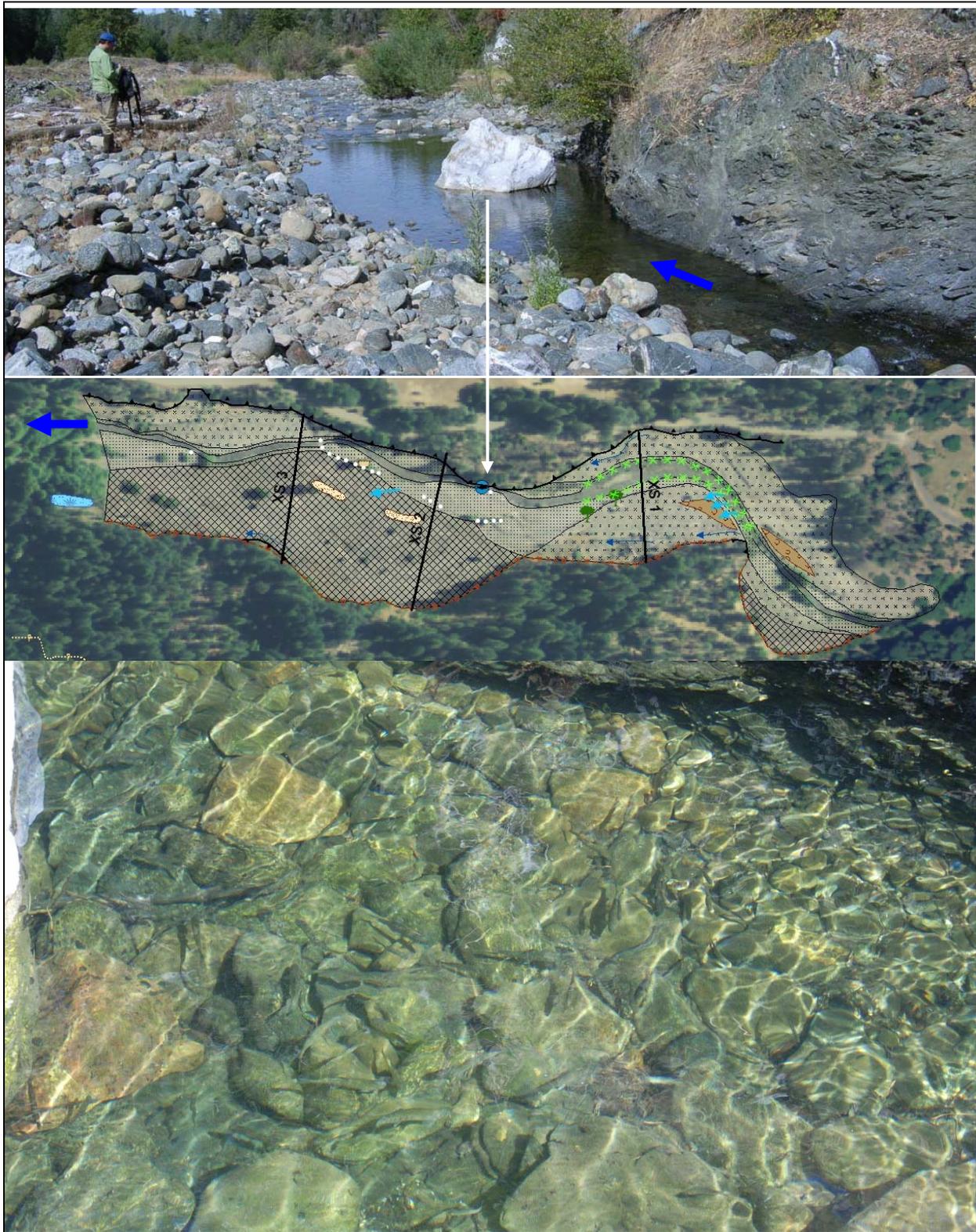
Large Wood Debris at Upstream Section

PWA Ref# 2035-00









 Flow direction

figure 7.9
Indian Creek

Scoured Rearing Hole With Juveniles

PWA Ref# 2035-00





Photos illustrates possible perched nature of channel.

 Flow direction

figure 7.10
Indian Creek

Dry Scour Hole Near Channel

PWA Ref# 2035-00





 Flow direction

figure 7.11
Indian Creek

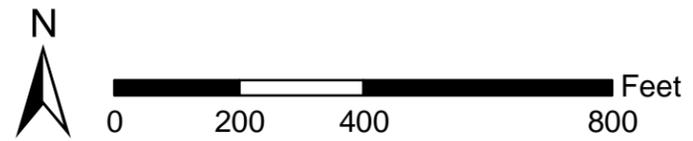
Ground Water Daylighting at Downstream Section

PWA Ref# 2035-00





Source: U.S. Department of Agriculture (USDA) Soil Conservation Service (SCS), 1990. Assessment of Hoadley Gulch, Indian Creek, Deadwood Creek, and Rush Creek Watersheds.



- white boulders
- 2009 Indian Creek Channel
- Project Extents

LOWER INDIAN CREEK
PLAN MAP

TRINITY COUNTY RESOURCE
CONSERVATION DISTRICT

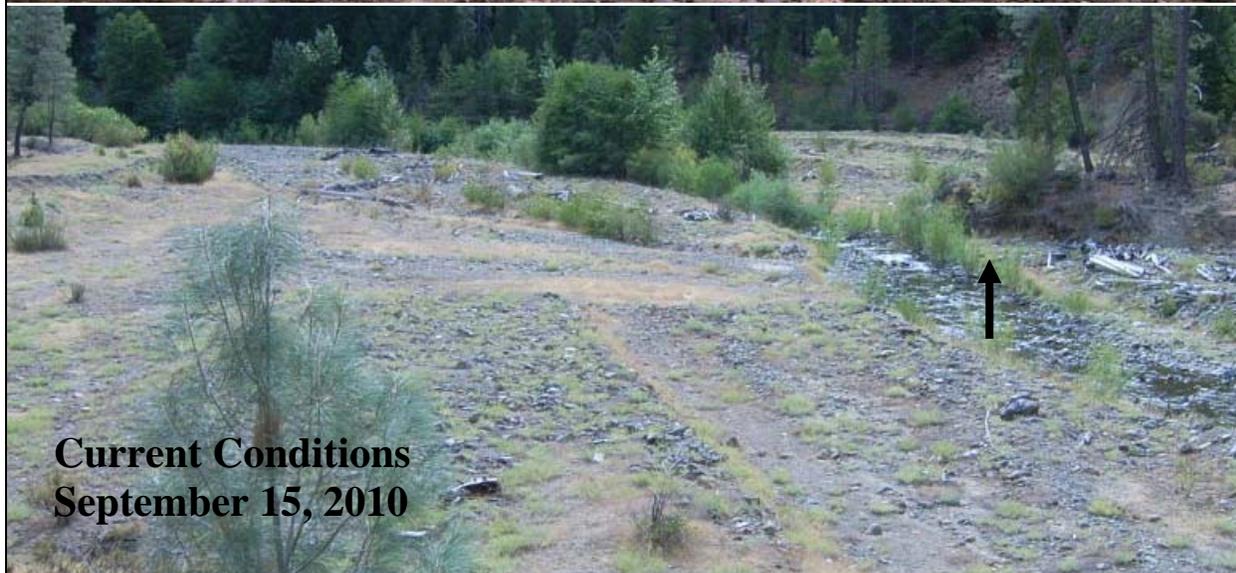
Designed by	Date	Drawn by	Date
Sheet No.	of	Drawing No.	

figure 8-1
Indian Creek

1996 BLM Restoration Design Plan with Assessment Notes

PWA Ref# - 2035.00



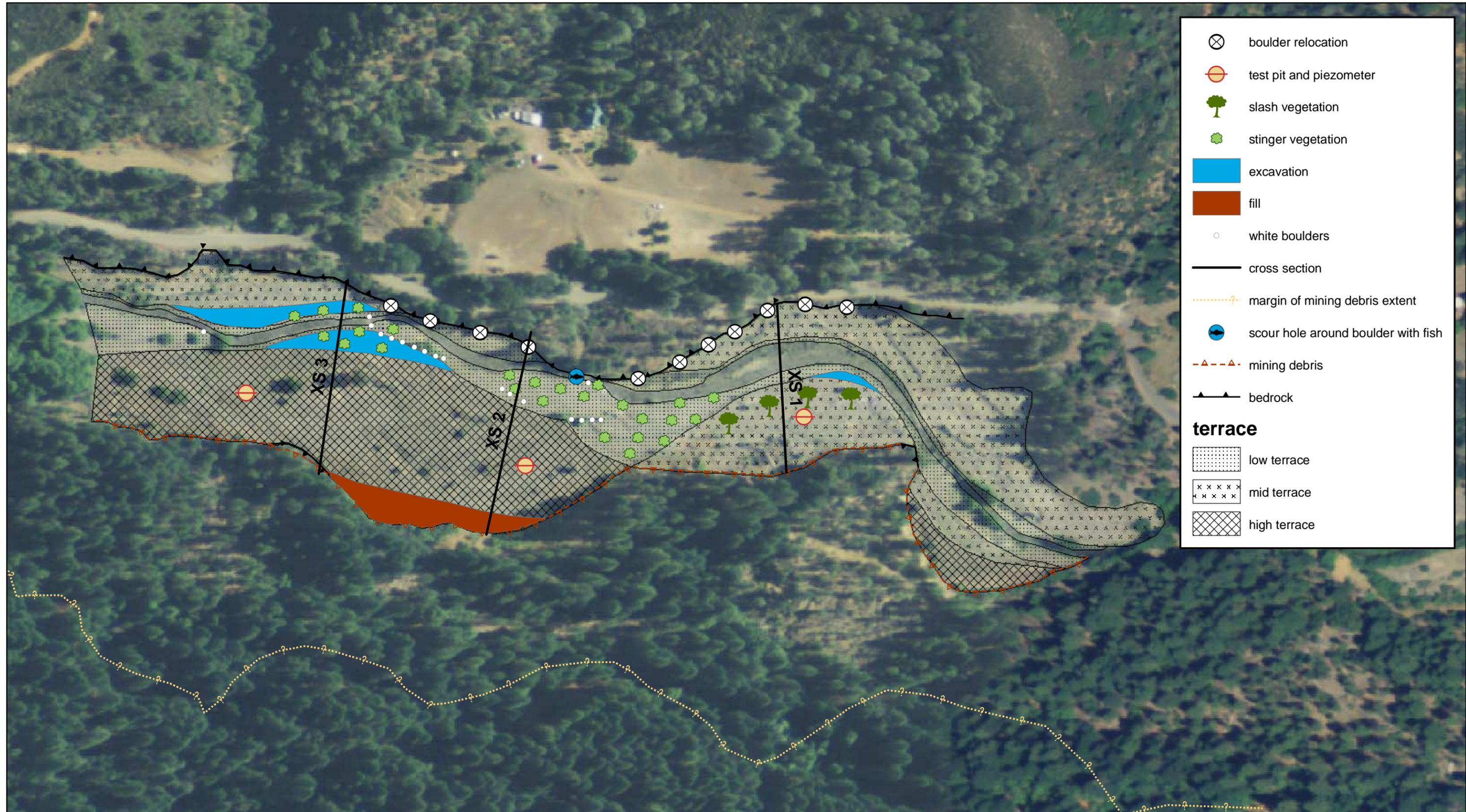


*figure 8-2
Indian Creek*

1996 BLM Restoration: Section 1

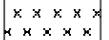
PWA Ref# 2035.00





-  boulder relocation
-  test pit and piezometer
-  slash vegetation
-  stinger vegetation
-  excavation
-  fill
-  white boulders
-  cross section
-  margin of mining debris extent
-  scour hole around boulder with fish
-  mining debris
-  bedrock

terrace

-  low terrace
-  mid terrace
-  high terrace

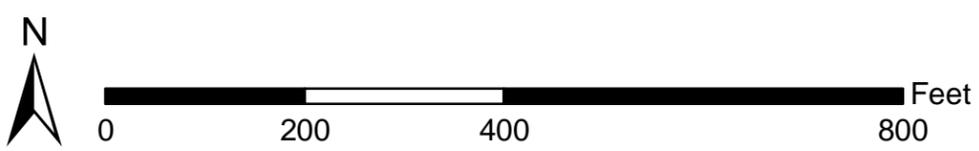
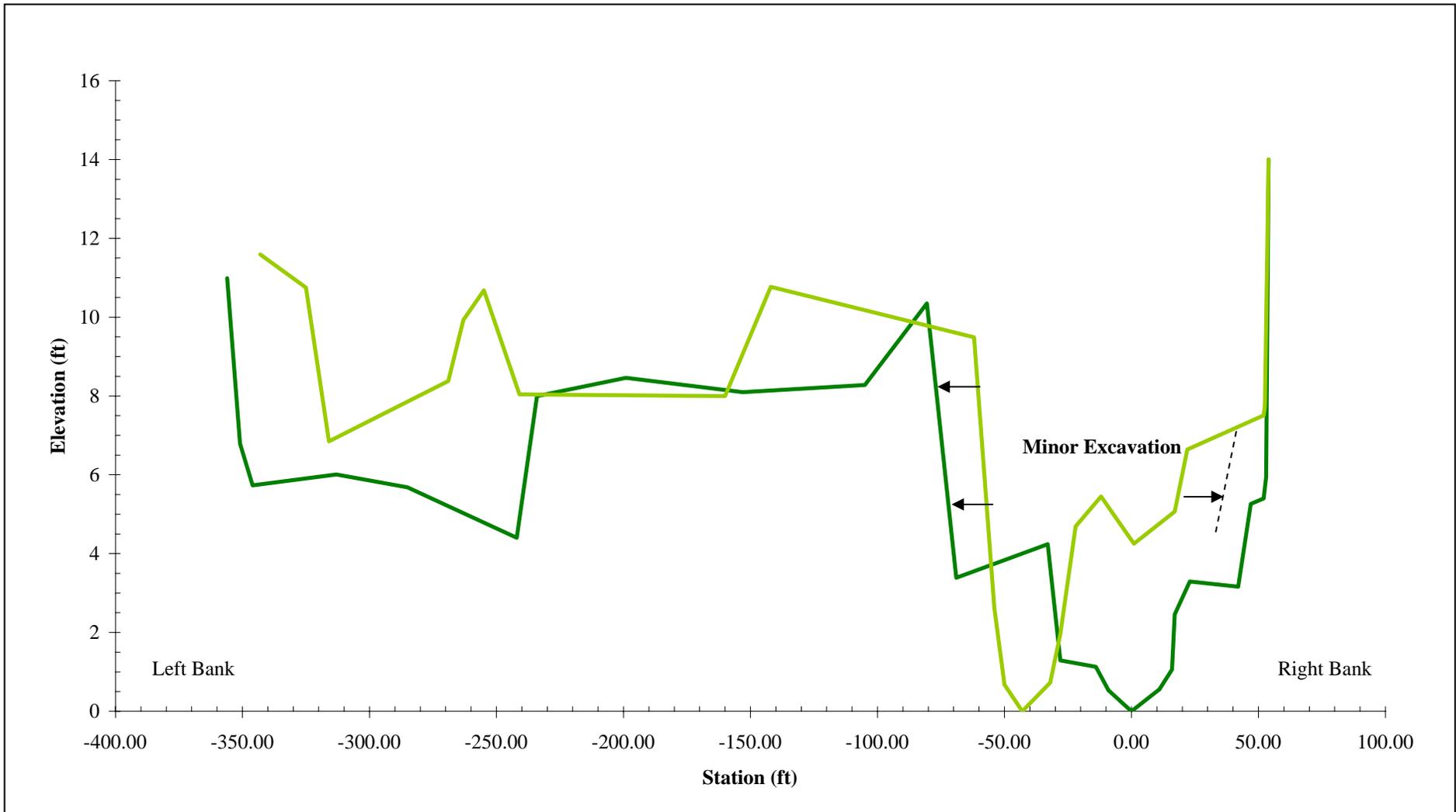


figure 12-1
Indian Creek

Recommended Restoration Actions

PWA Ref# - 2035.00





— Cross Section 2
— Cross Section 3

figure 12-2
Indian Creek

Cross Sectional View of Minor Excavation

PWA Ref# 2035 - 00

