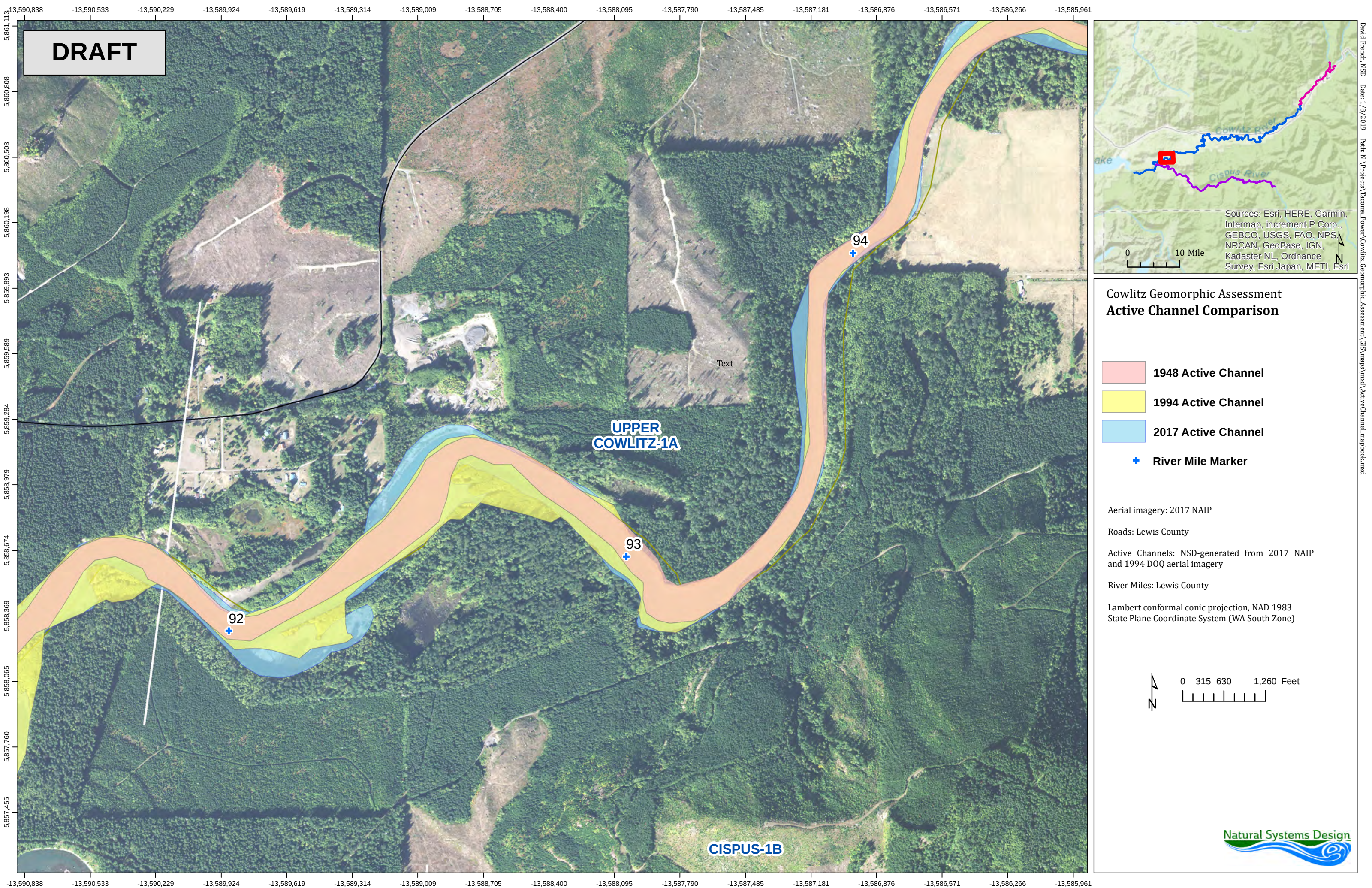
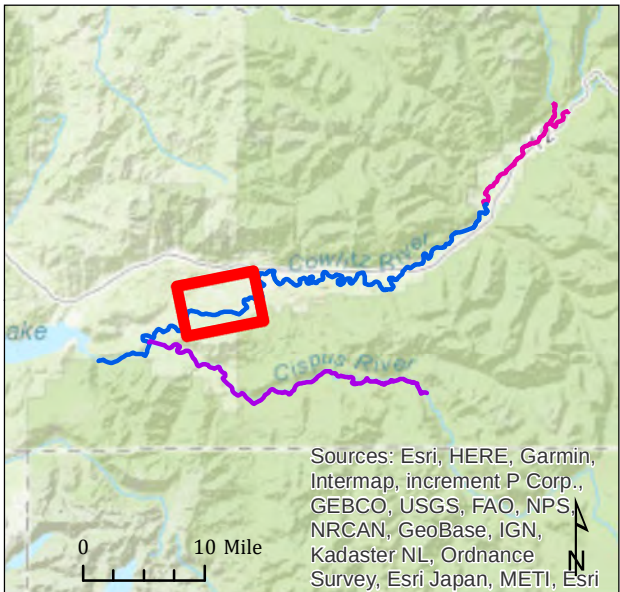






Cowlitz Geomorphic Assessment Active Channel Comparison

1948 Active Channel

1994 Active Channel

2017 Active Channel

River Mile Marker

Aerial imagery: 2017 NAIP

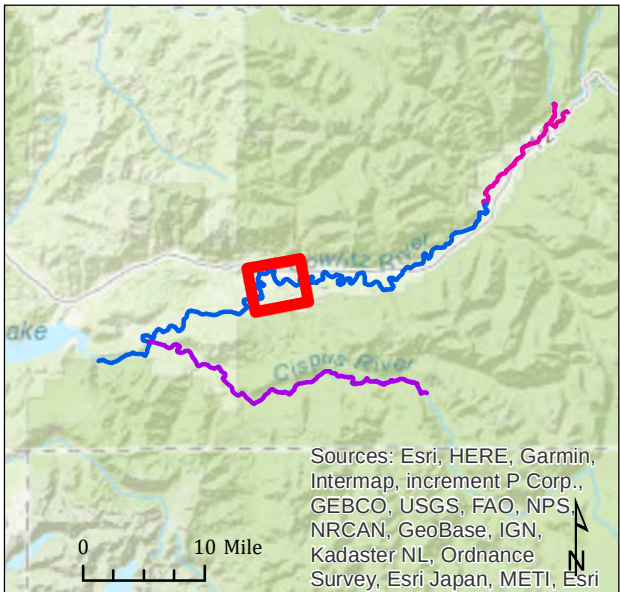
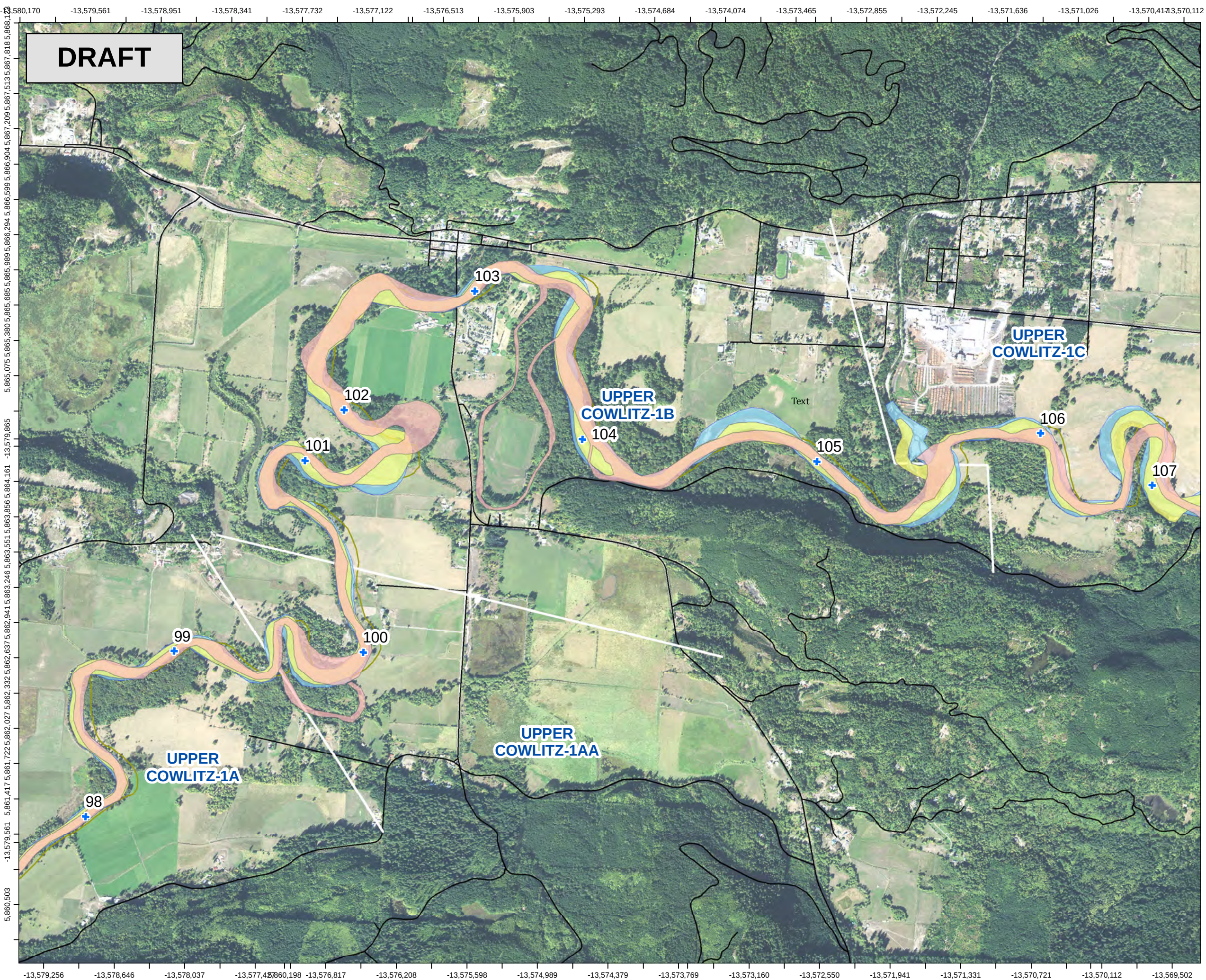
Roads: Lewis County

Active Channels: NSD-generated from 2017 NAIP and 1994 DOQ aerial imagery

River Miles: Lewis County

Lambert conformal conic projection, NAD 1983
State Plane Coordinate System (WA South Zone)

0 875 1,750 3,500 Feet



Cowlitz Geomorphic Assessment Active Channel Comparison

1948 Active Channel

1994 Active Channel

2017 Active Channel

River Mile Marker

Aerial imagery: 2017 NAIP

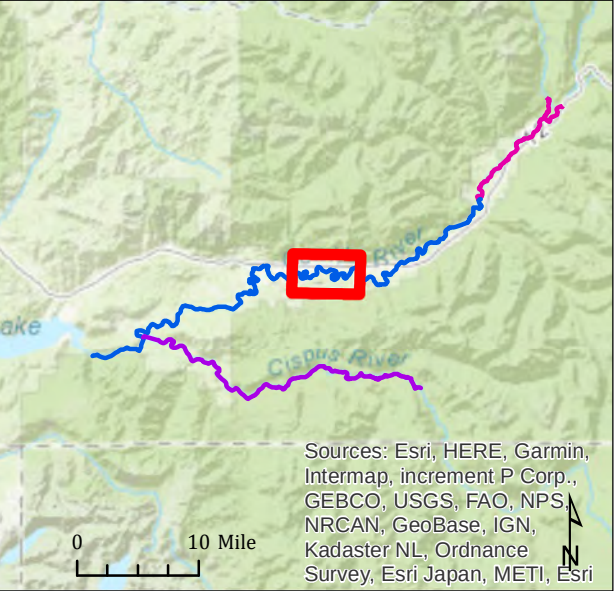
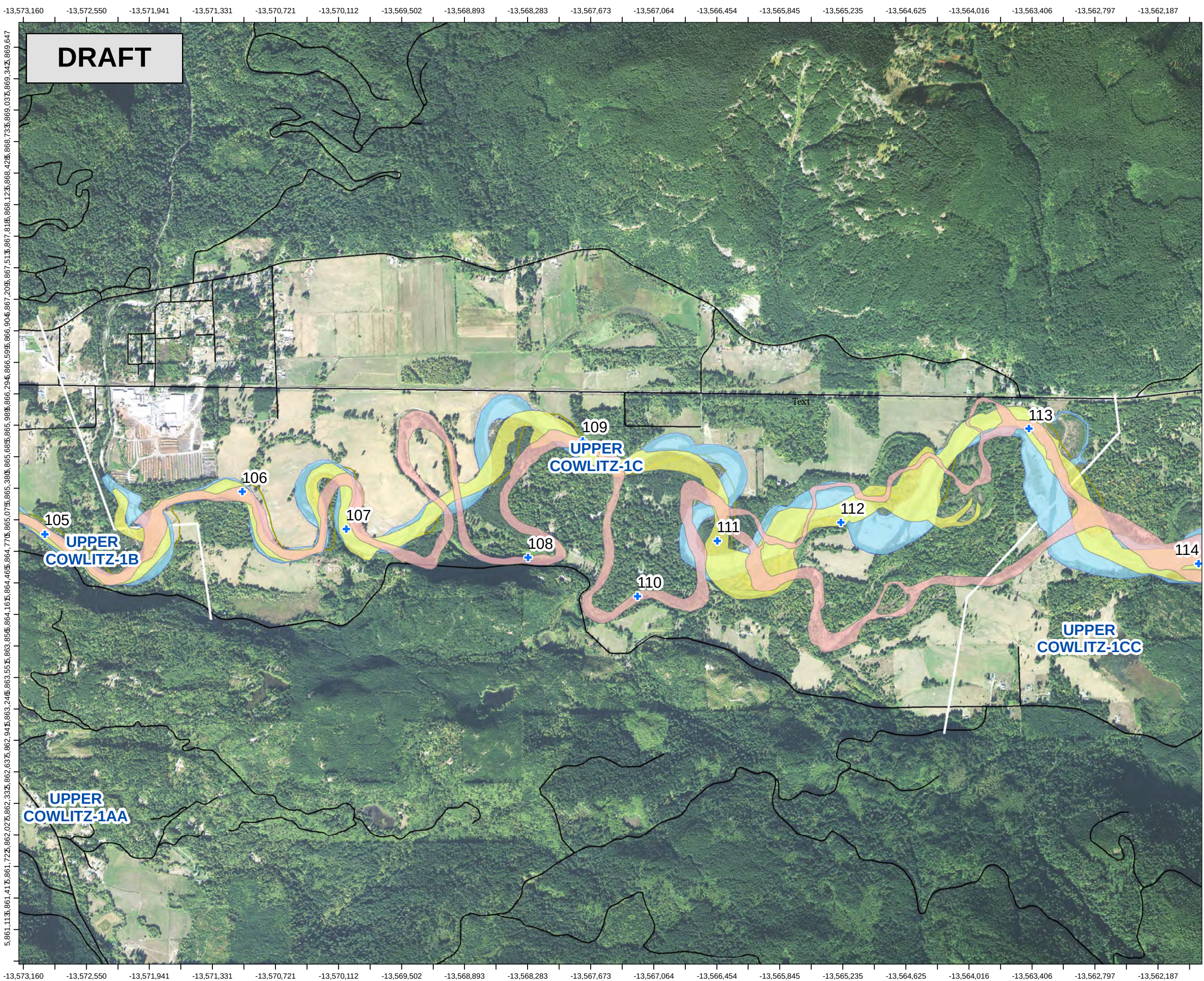
Roads: Lewis County

Active Channels: NSD-generated from 2017 NAIP and 1994 DOQ aerial imagery

River Miles: Lewis County

Lambert conformal conic projection, NAD 1983
State Plane Coordinate System (WA South Zone)

0 650 1,300 2,600 Feet



Cowlitz Geomorphic Assessment Active Channel Comparison

- 1948 Active Channel
- 1994 Active Channel
- 2017 Active Channel
- River Mile Marker

Aerial imagery: 2017 NAIP

Roads: Lewis County

Active Channels: NSD-generated from 2017 NAIP and 1994 DOQ aerial imagery

River Miles: Lewis County

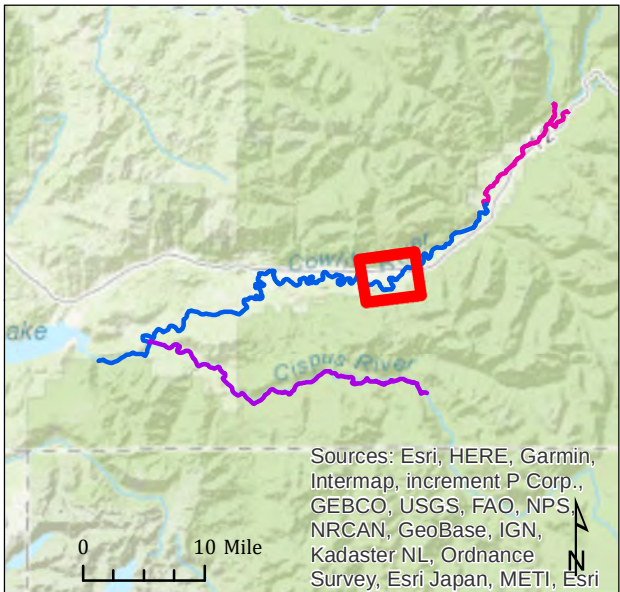
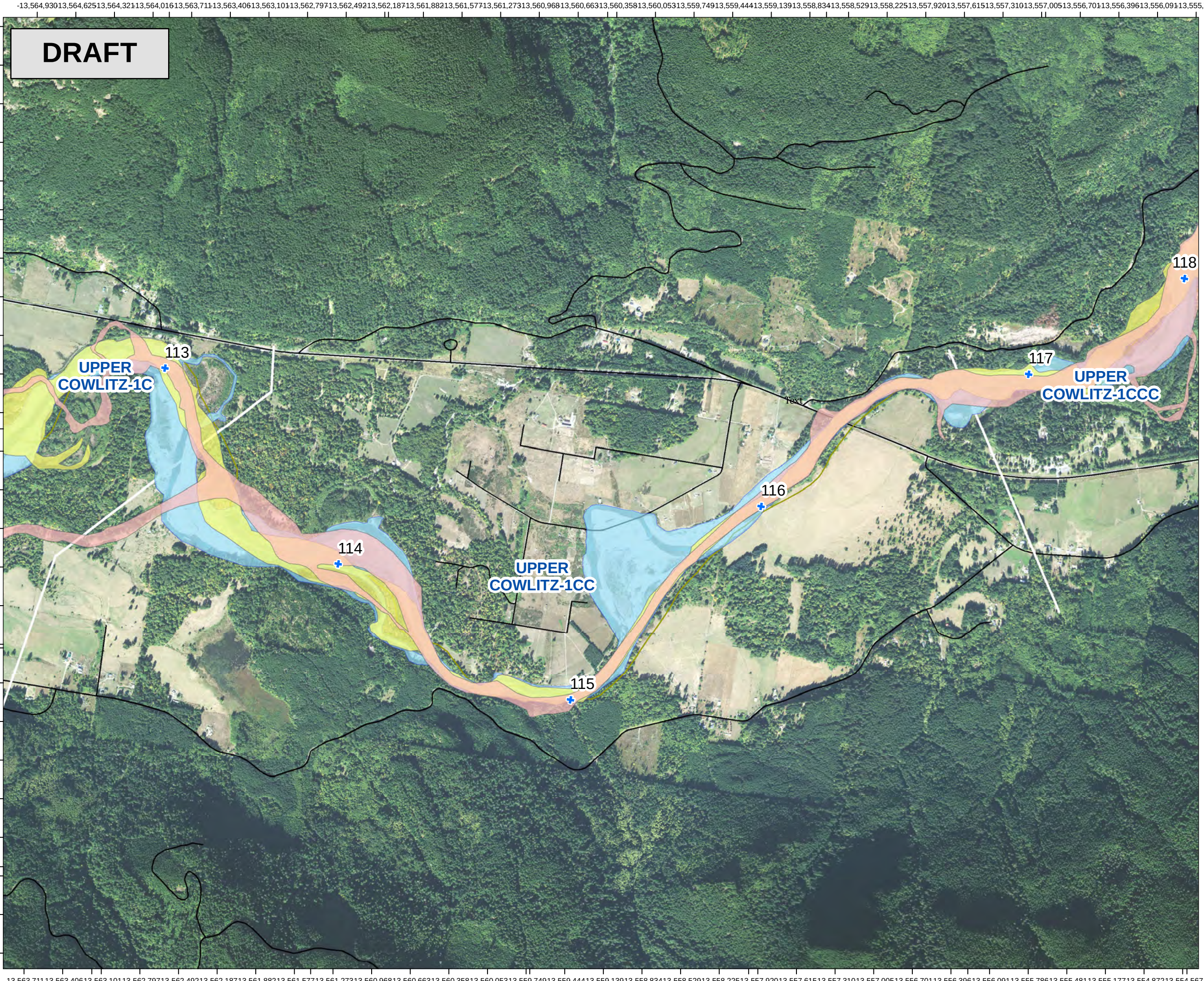
Lambert conformal conic projection, NAD 1983
State Plane Coordinate System (WA South Zone)

0 7001,400 2,800 Feet

5,861,111.5,861,411.5,861,722.5,862,027.5,862,332.5,862,637.5,862,944.5,863,245.5,863,555.5,863,855.5,864,165.5,864,465.5,864,775.5,865,075.5,865,385.5,865,685.5,865,985.5,866,294.5,866,595.5,866,904.5,867,205.5,867,513.5,867,815.5,868,123.5,868,425.5,868,733.5,869,037.5,869,342.5,869,647.5

-13,573,160 -13,572,550 -13,571,941 -13,571,331 -13,570,721 -13,570,112 -13,569,502 -13,568,893 -13,568,283 -13,567,673 -13,567,064 -13,566,454 -13,565,845 -13,565,235 -13,564,625 -13,564,016 -13,563,406 -13,562,797 -13,562,187

Text



Cowlitz Geomorphic Assessment Active Channel Comparison

1948 Active Channel

1994 Active Channel

2017 Active Channel

River Mile Marker

Aerial imagery: 2017 NAIP

Roads: Lewis County

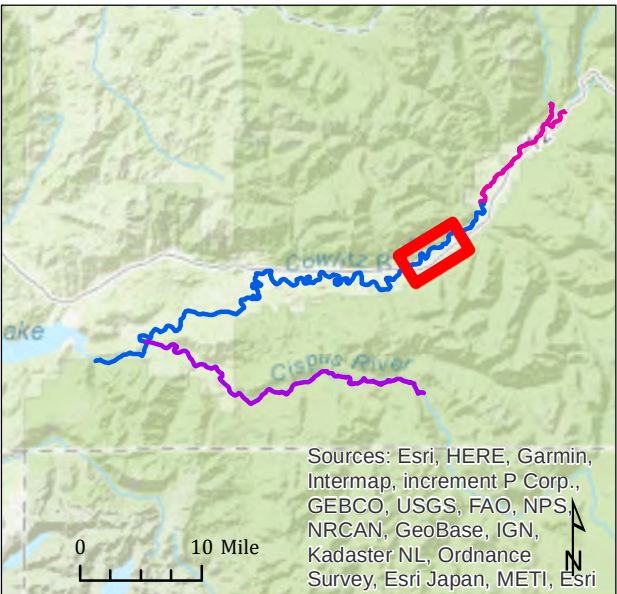
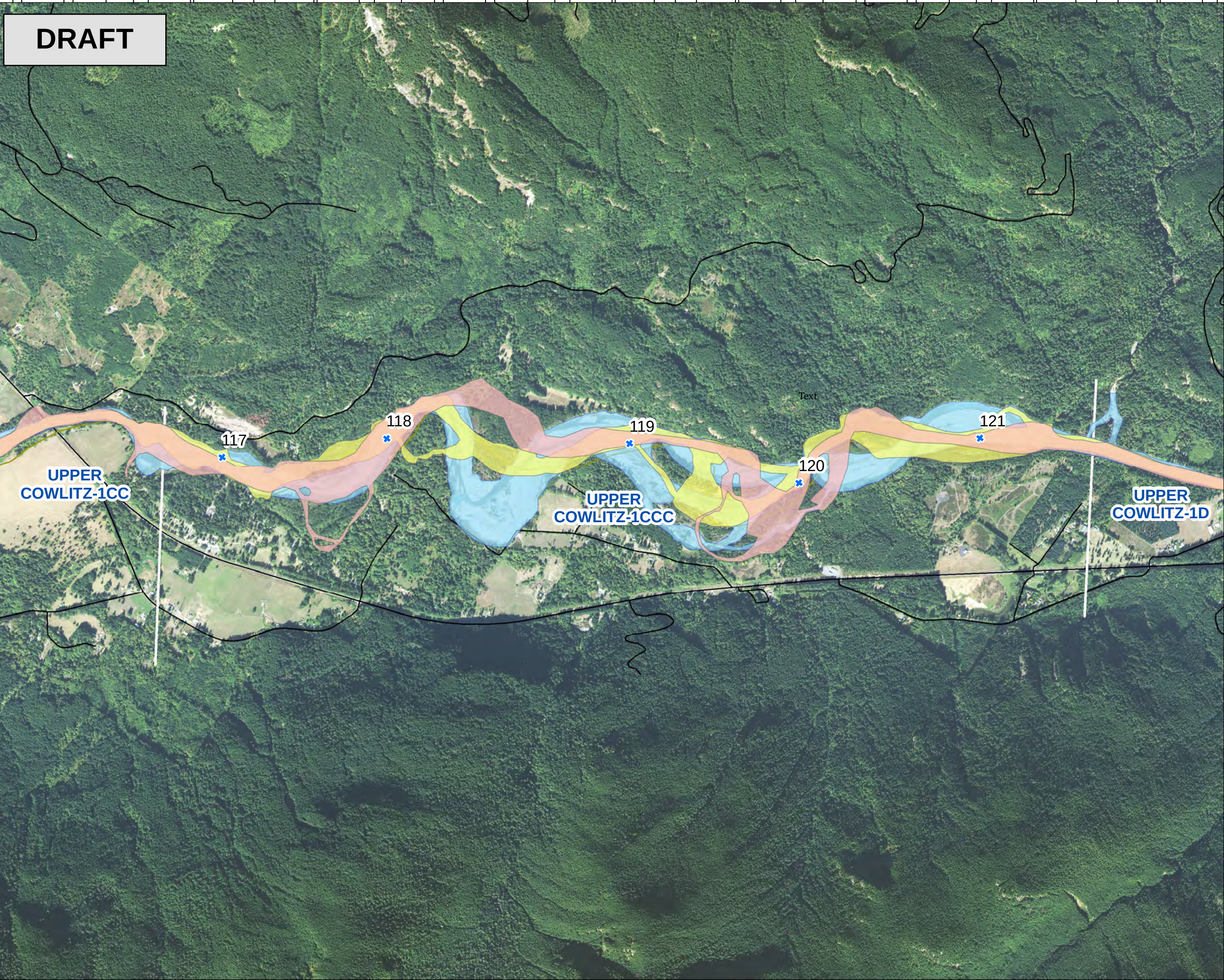
Active Channels: NSD-generated from 2017 NAIP and 1994 DOQ aerial imagery

River Miles: Lewis County

Lambert conformal conic projection, NAD 1983
State Plane Coordinate System (WA South Zone)

0 600 1,200 2,400 Feet

DRAFT



Cowlitz Geomorphic Assessment

Active Channel Comparison

1948 Active Channel

1994 Active Channel

2017 Active Channel

River Mile Marker

Aerial imagery: 2017 NAIP

Roads: Lewis County

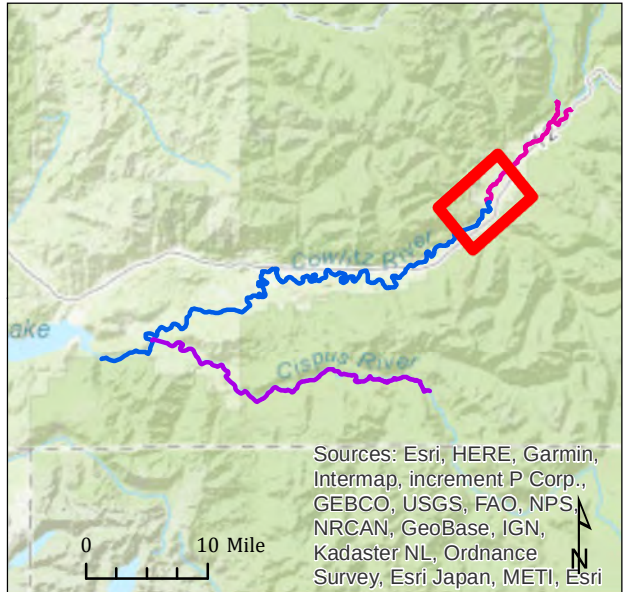
Active Channels: NSD-generated from 2017 NAIP and 1994 DOQ aerial imagery

River Miles: Lewis County

Lambert conformal conic projection, NAD 1983
State Plane Coordinate System (WA South Zone)

0 6501,300 2,600 Feet

DRAFT



Cowlitz Geomorphic Assessment Active Channel Comparison

- 1948 Active Channel
- 1994 Active Channel
- 2017 Active Channel
- River Mile Marker

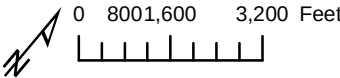
Aerial imagery: 2017 NAIP

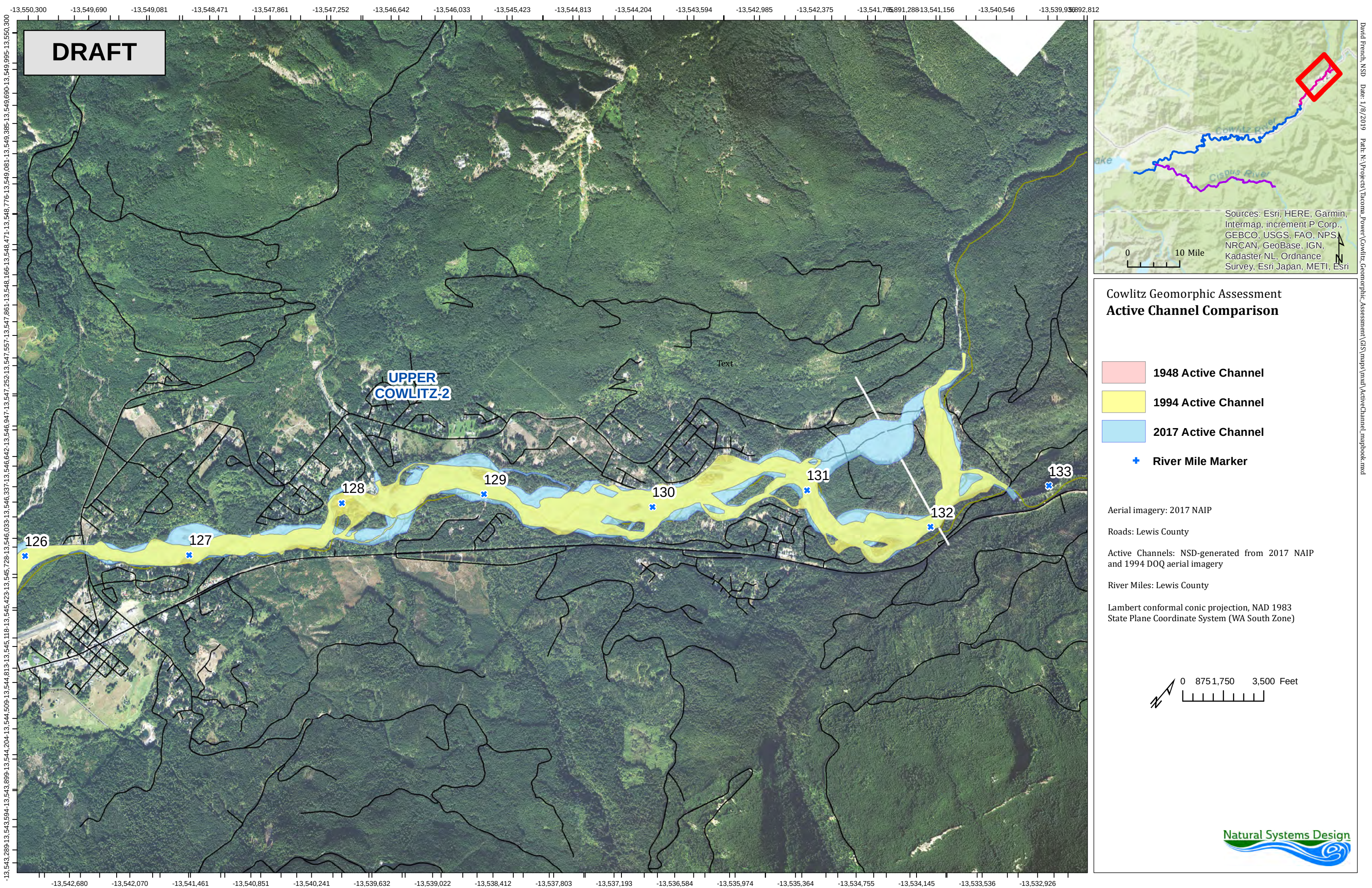
Roads: Lewis County

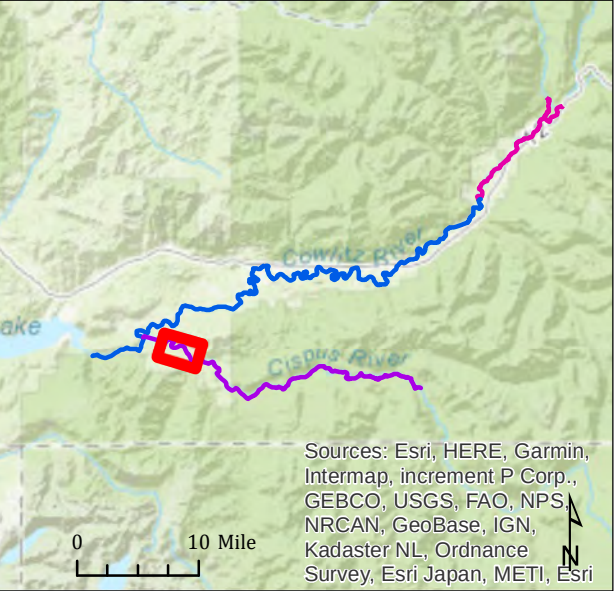
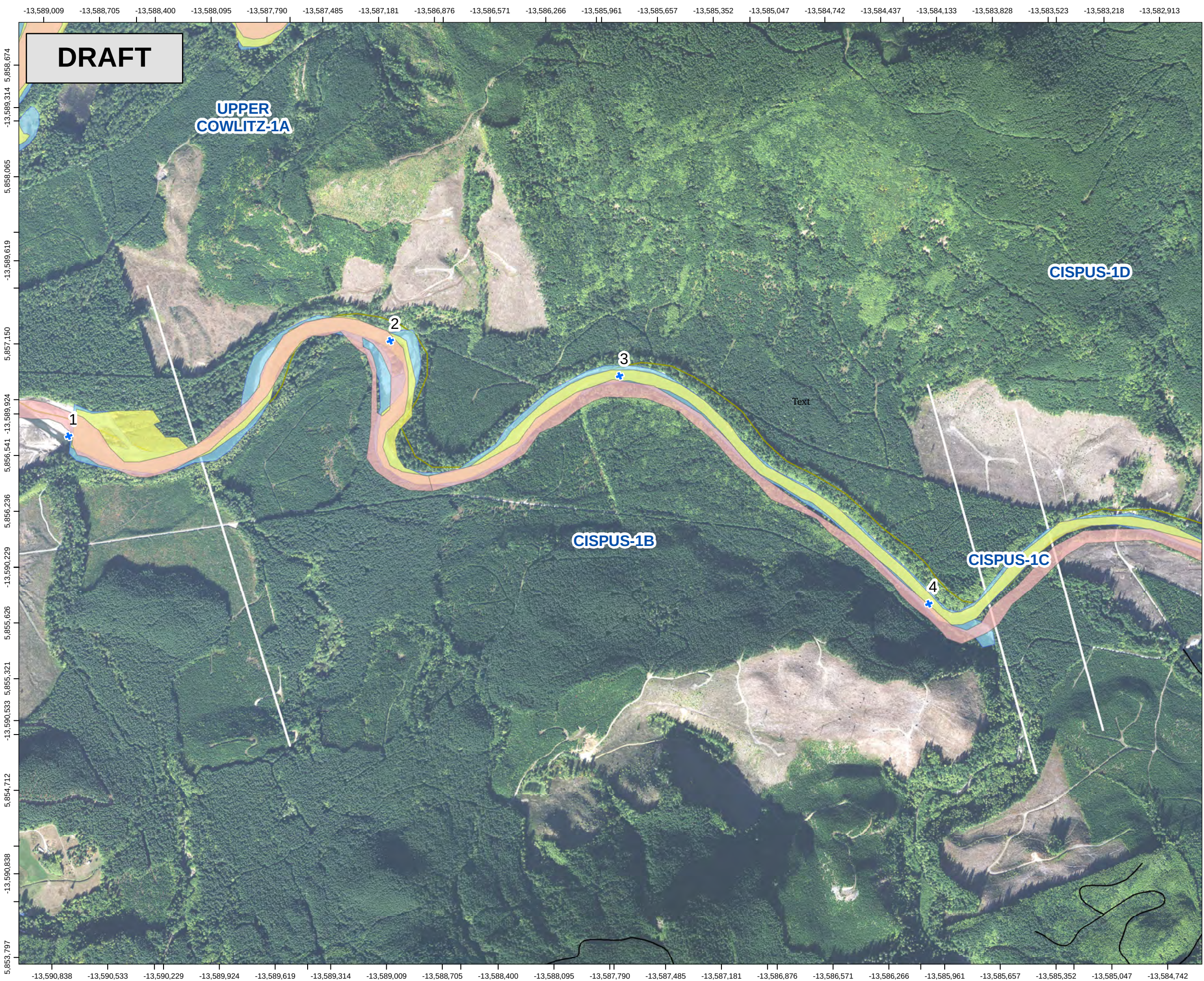
Active Channels: NSD-generated from 2017 NAIP and 1994 DOQ aerial imagery

River Miles: Lewis County

Lambert conformal conic projection, NAD 1983
State Plane Coordinate System (WA South Zone)







Cowlitz Geomorphic Assessment Active Channel Comparison

1948 Active Channel

1994 Active Channel

2017 Active Channel

River Mile Marker

Aerial imagery: 2017 NAIP

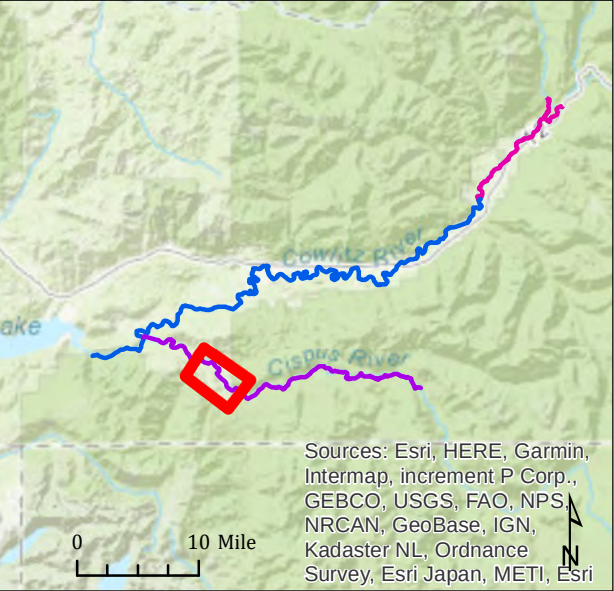
Roads: Lewis County

Active Channels: NSD-generated from 2017 NAIP and 1994 DOQ aerial imagery

River Miles: Lewis County

Lambert conformal conic projection, NAD 1983
State Plane Coordinate System (WA South Zone)

0 437.5 875 1,750 Feet



Cowlitz Geomorphic Assessment Active Channel Comparison

1948 Active Channel

1994 Active Channel

2017 Active Channel

River Mile Marker

Aerial imagery: 2017 NAIP

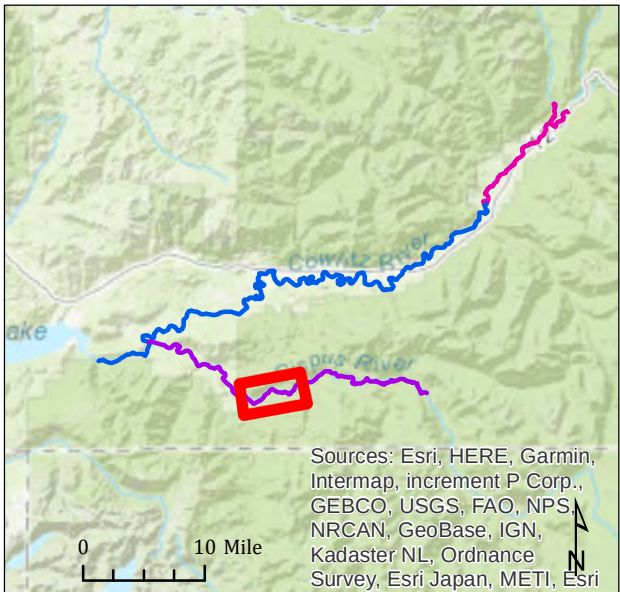
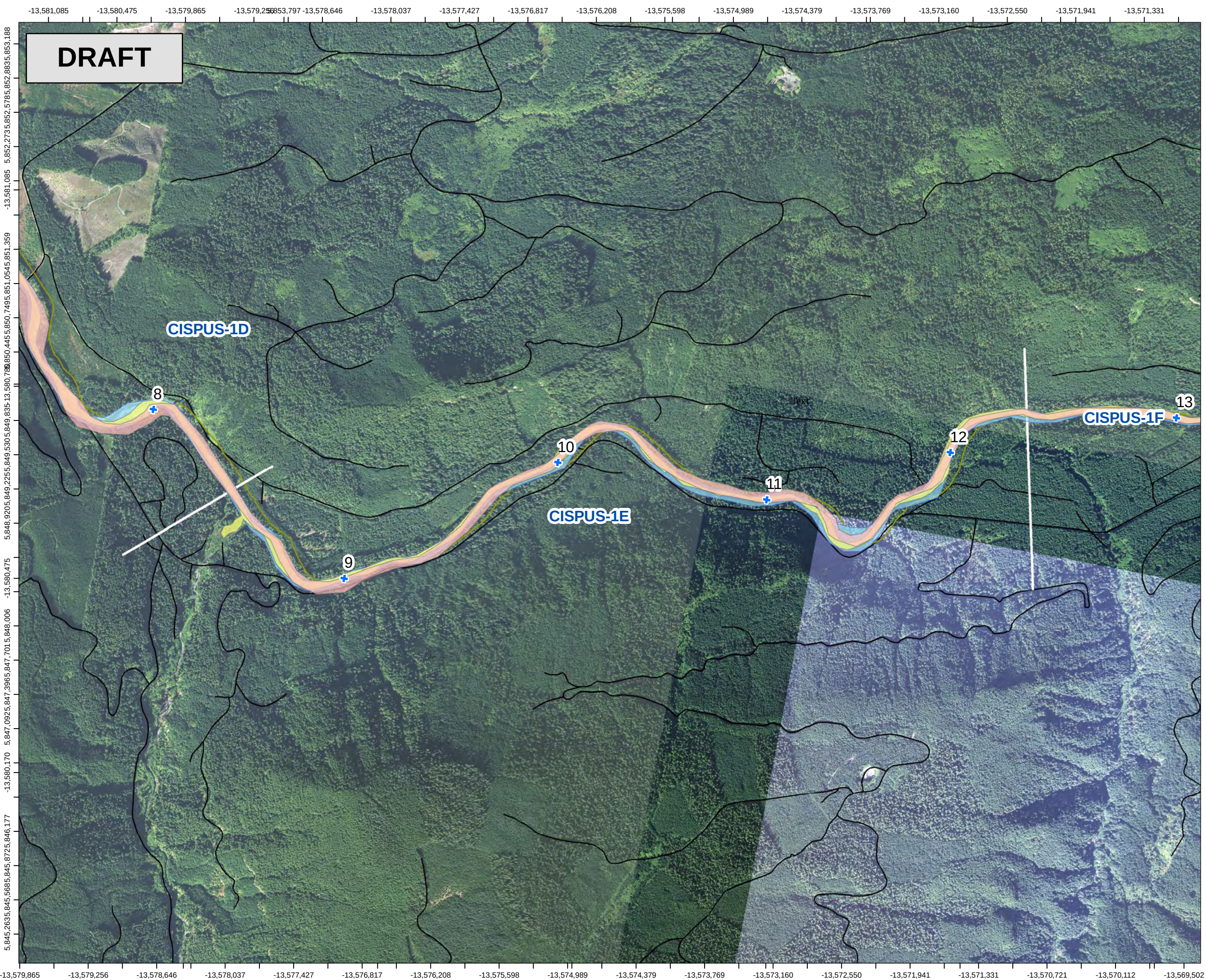
Roads: Lewis County

Active Channels: NSD-generated from 2017 NAIP and 1994 DOQ aerial imagery

River Miles: Lewis County

Lambert conformal conic projection, NAD 1983
State Plane Coordinate System (WA South Zone)

0 600 1,200 2,400 Feet



Cowlitz Geomorphic Assessment Active Channel Comparison

1948 Active Channel

1994 Active Channel

2017 Active Channel

River Mile Marker

Aerial imagery: 2017 NAIP

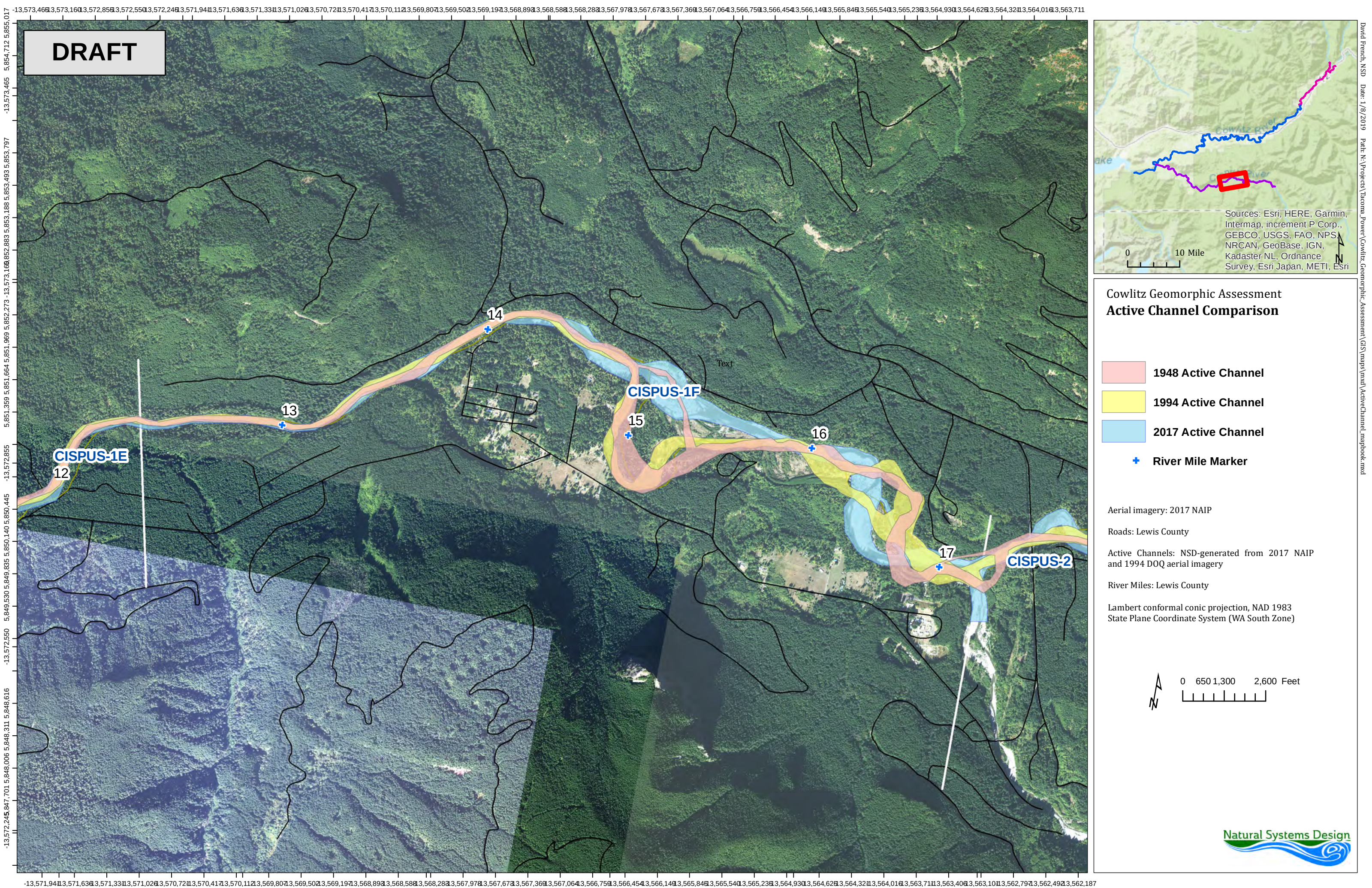
Roads: Lewis County

Active Channels: NSD-generated from 2017 NAIP and 1994 DOQ aerial imagery

River Miles: Lewis County

Lambert conformal conic projection, NAD 1983
State Plane Coordinate System (WA South Zone)

0 650 1,300 2,600 Feet



DRAFT

CISPUS-1E

12

13

14

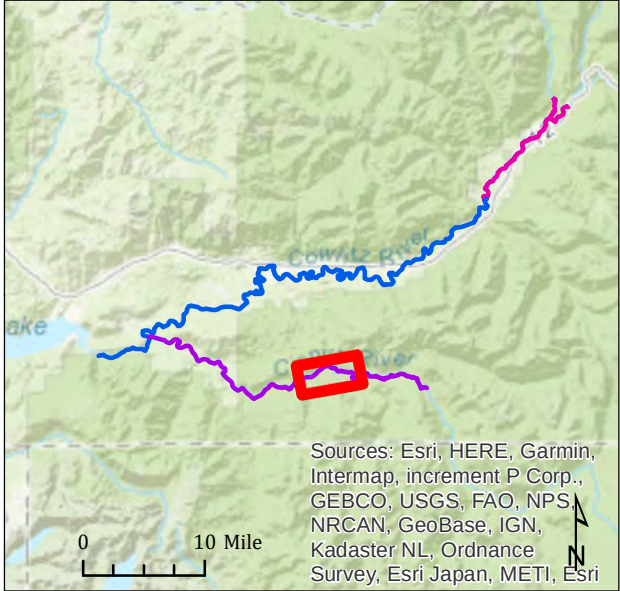
CISPUS-1F

15

16

17

CISPUS-2



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri

Cowlitz Geomorphic Assessment Active Channel Comparison

1948 Active Channel

1994 Active Channel

2017 Active Channel

River Mile Marker

Aerial imagery: 2017 NAIP

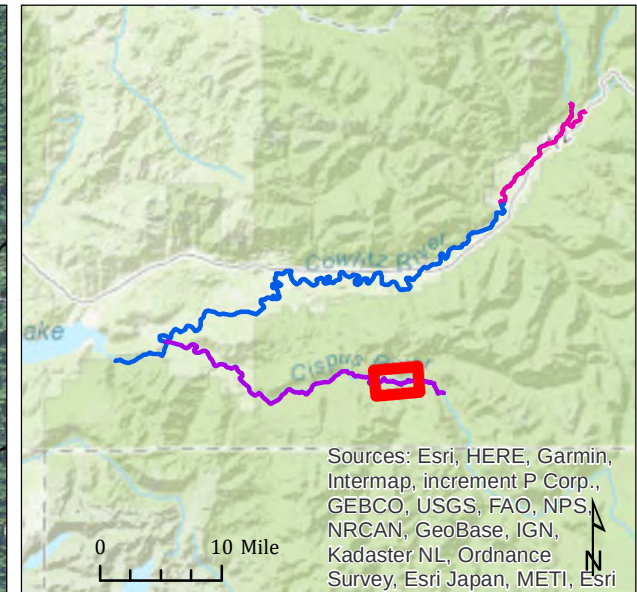
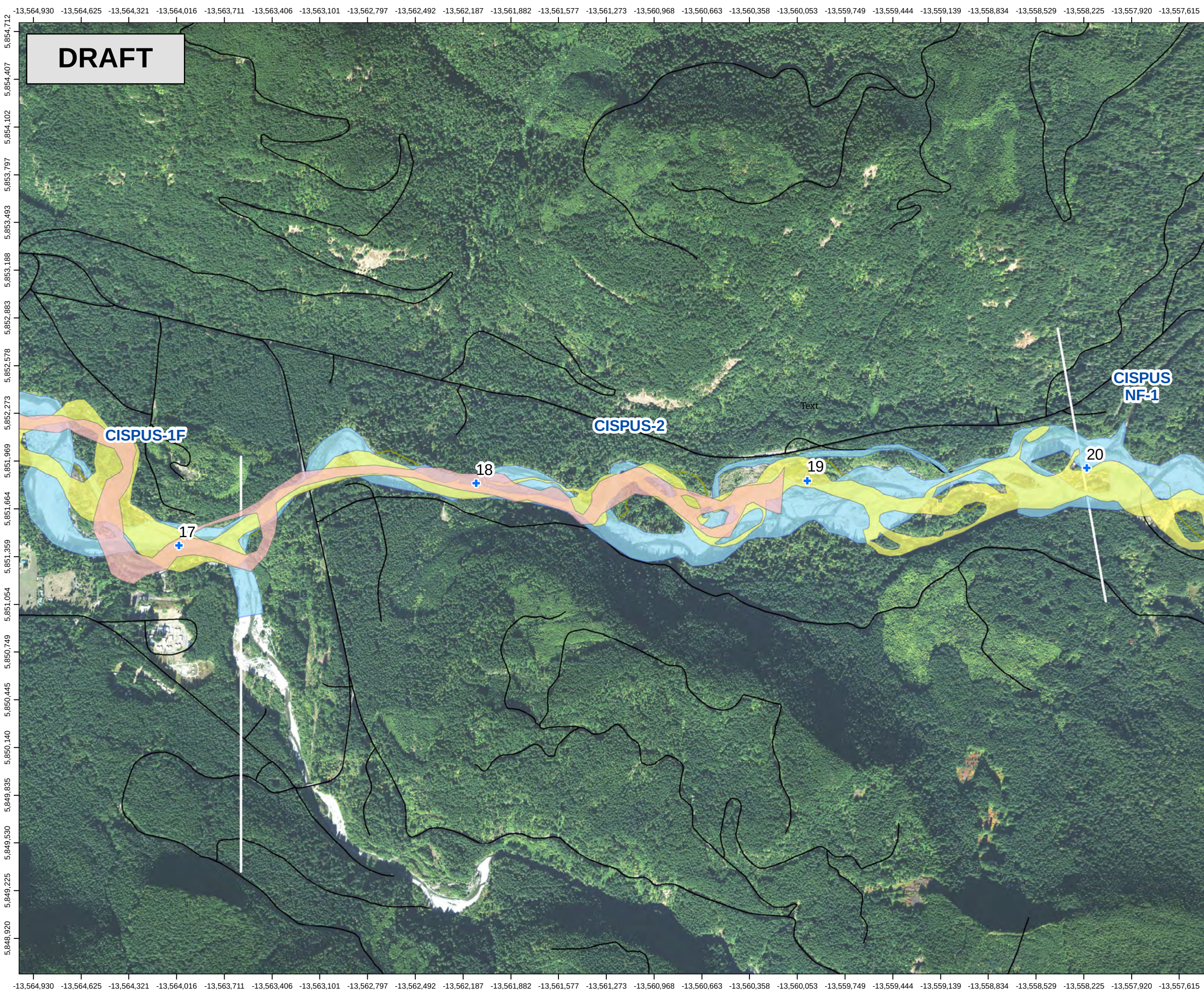
Roads: Lewis County

Active Channels: NSD-generated from 2017 NAIP and 1994 DOQ aerial imagery

River Miles: Lewis County

Lambert conformal conic projection, NAD 1983
State Plane Coordinate System (WA South Zone)

0 650 1,300 2,600 Feet



Cowlitz Geomorphic Assessment Active Channel Comparison

1948 Active Channel

1994 Active Channel

2017 Active Channel

River Mile Marker

Aerial imagery: 2017 NAIP

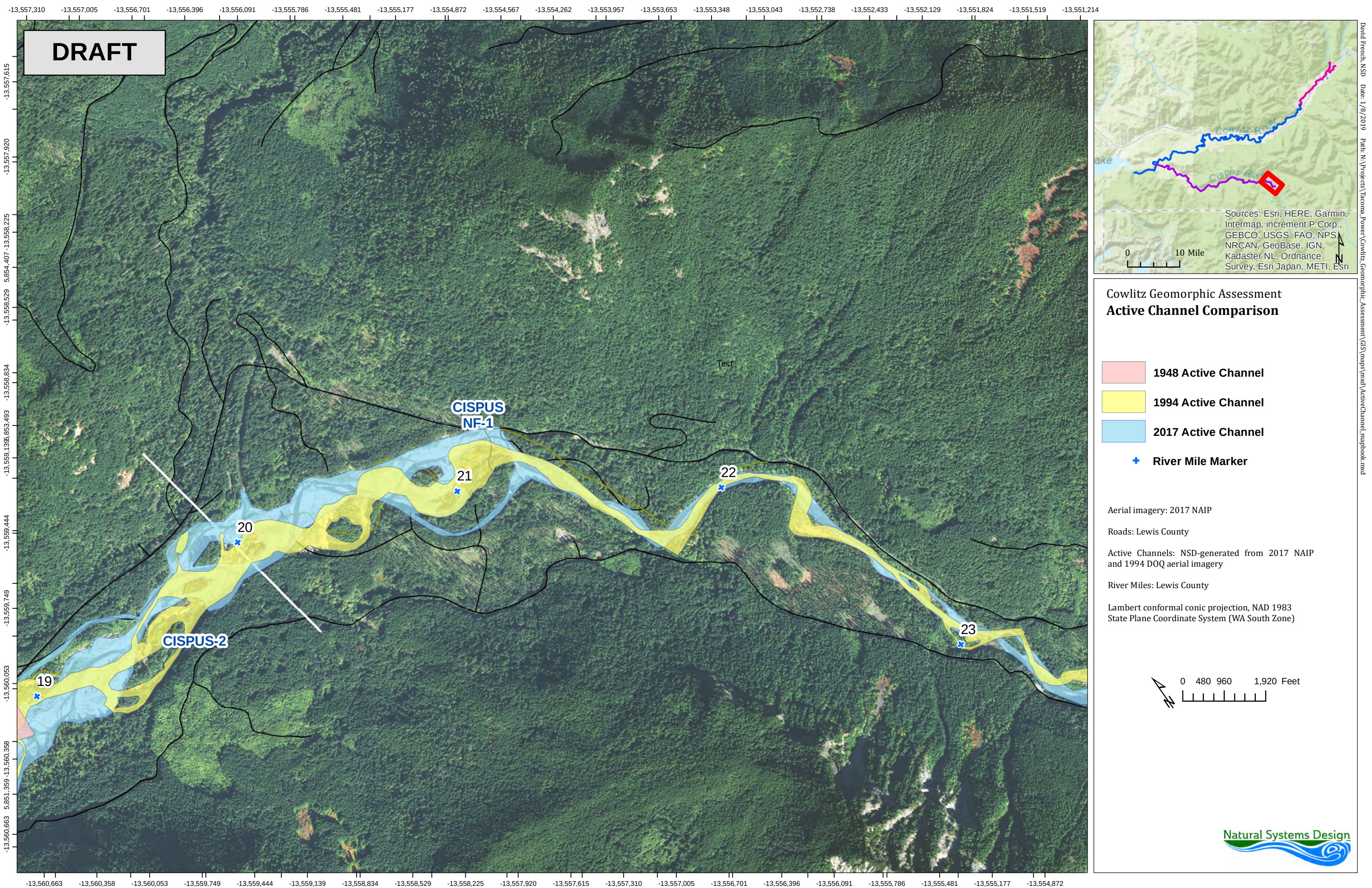
Roads: Lewis County

Active Channels: NSD-generated from 2017 NAIP and 1994 DOQ aerial imagery

River Miles: Lewis County

Lambert conformal conic projection, NAD 1983
State Plane Coordinate System (WA South Zone)

0 485 970 1,940 Feet



DRAFT

CISPUS
NF-1

CISPUS-2

21

22

23

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Cowlitz Geomorphic Assessment
Active Channel Comparison

- 1948 Active Channel
- 1994 Active Channel
- 2017 Active Channel
- River Mile Marker

Aerial imagery: 2017 NAIP
Roads: Lewis County
Active Channels: NSD-generated from 2017 NAIP and 1994 DOQ aerial imagery
River Miles: Lewis County
Lambert conformal conic projection, NAD 1983
State Plane Coordinate System (WA South Zone)

