

APPENDIX C

Stream Habitat and Geomorphic Map Series River Mile 0.0 to 26.4

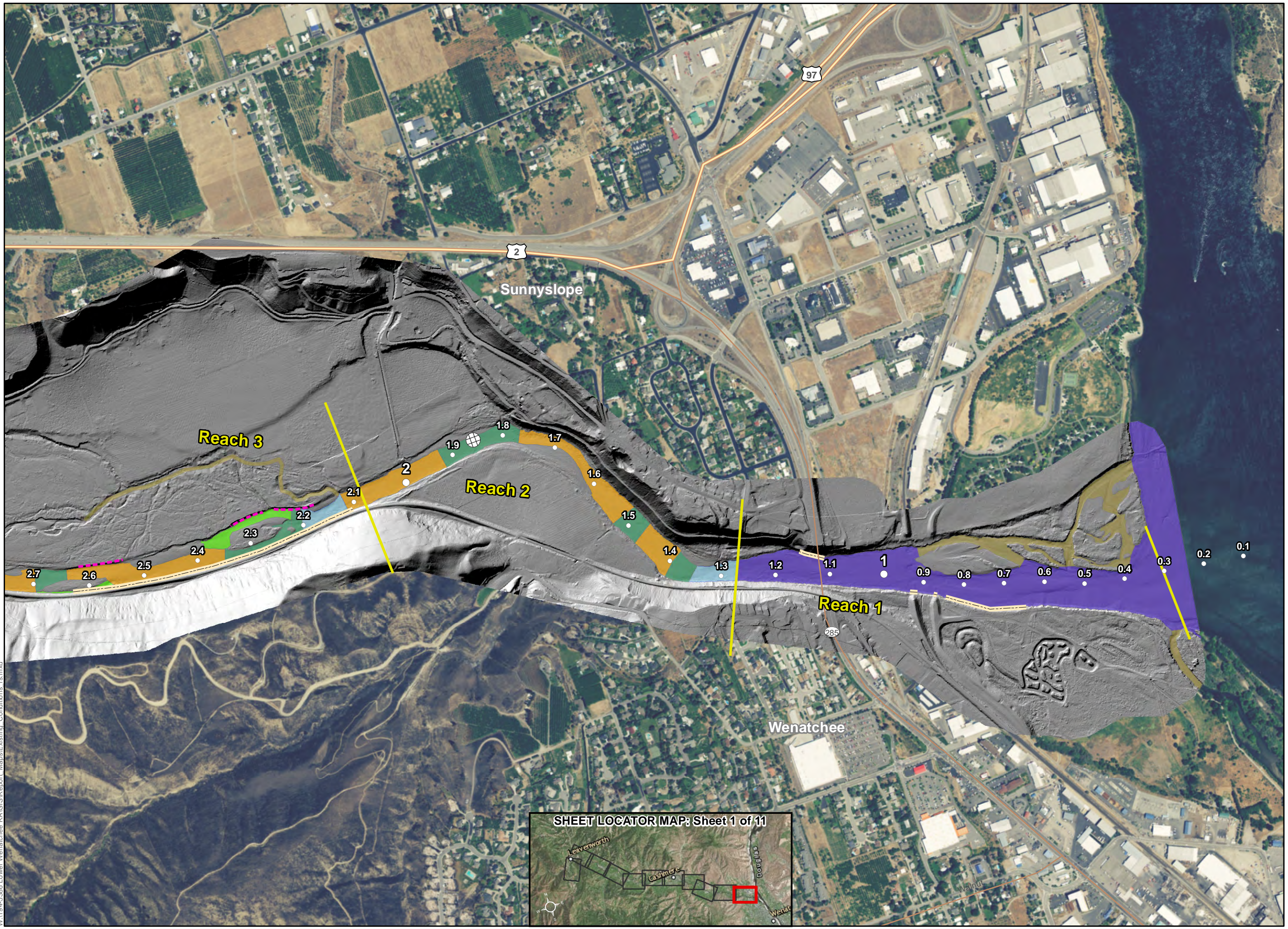
List of Figures

Figure C-1a	Existing Conditions Map Series RM 0.0 to RM 2.5
Figure C-1b	Existing Conditions Map Series RM 2.5 to RM 5.0
Figure C-1c	Existing Conditions Map Series RM 5.0 to RM 7.5
Figure C-1d	Existing Conditions Map Series RM 7.5 to RM 9.0
Figure C-1e	Existing Conditions Map Series RM 9.0 to RM 11.5
Figure C-1f	Existing Conditions Map Series RM 11.5 to RM 14.0
Figure C-1g	Existing Conditions Map Series RM 14.0 to RM 16.5
Figure C-1h	Existing Conditions Map Series RM 16.5 to RM 19.0
Figure C-1i	Existing Conditions Map Series RM 19.0 to RM 22.0
Figure C-1j	Existing Conditions Map Series RM 22.0 to RM 24.5
Figure C-1k	Existing Conditions Map Series RM 24.5 to RM 26.4
Figure C-2a	Floodplain Inundation and Terrace Map Series RM 0.0 to RM 2.5
Figure C-2b	Floodplain Inundation and Terrace Map Series RM 2.5 to RM 5.0
Figure C-2c	Floodplain Inundation and Terrace Map Series RM 5.0 to RM 7.5
Figure C-2d	Floodplain Inundation and Terrace Map Series RM 7.5 to RM 9.0
Figure C-2e	Floodplain Inundation and Terrace Map Series RM 9.0 to RM 11.5
Figure C-2f	Floodplain Inundation and Terrace Map Series RM 11.5 to RM 14.0
Figure C-2g	Floodplain Inundation and Terrace Map Series RM 14.0 to RM 16.5
Figure C-2h	Floodplain Inundation and Terrace Map Series RM 16.5 to RM 19.0
Figure C-2i	Floodplain Inundation and Terrace Map Series RM 19.0 to RM 22.0
Figure C-2j	Floodplain Inundation and Terrace Map Series RM 22.0 to RM 24.5
Figure C-2k	Floodplain Inundation and Terrace Map Series RM 24.5 to RM 26.4
Figure C-3a	Sub-Unit Geomorphic Map Series RM 0.0 to RM 2.5
Figure C-3b	Sub-Unit Geomorphic Map Series RM 2.5 to RM 5.0
Figure C-3c	Sub-Unit Geomorphic Map Series RM 5.0 to RM 7.5
Figure C-3d	Sub-Unit Geomorphic Map Series RM 7.5 to RM 9.0
Figure C-3e	Sub-Unit Geomorphic Map Series RM 9.0 to RM 11.5
Figure C-3f	Sub-Unit Geomorphic Map Series RM 11.5 to RM 14.0
Figure C-3g	Sub-Unit Geomorphic Map Series RM 14.0 to RM 16.5
Figure C-3h	Sub-Unit Geomorphic Map Series RM 16.5 to RM 19.0
Figure C-3i	Sub-Unit Geomorphic Map Series RM 19.0 to RM 22.0
Figure C-3j	Sub-Unit Geomorphic Map Series RM 22.0 to RM 24.5
Figure C-3k	Sub-Unit Geomorphic Map Series RM 24.5 to RM 26.4
Figure C-4a	Highest Hit LiDAR Difference Map Series RM 0.0 to RM 2.5
Figure C-4b	Highest Hit LiDAR Difference Map Series RM 2.5 to RM 5.0
Figure C-4c	Highest Hit LiDAR Difference Map Series RM 5.0 to RM 7.5
Figure C-4d	Highest Hit LiDAR Difference Map Series RM 7.5 to RM 9.0
Figure C-4e	Highest Hit LiDAR Difference Map Series RM 9.0 to RM 11.5

Figure C-4f	Highest Hit LiDAR Difference Map Series RM 11.5 to RM 14.0
Figure C-4g	Highest Hit LiDAR Difference Map Series RM 14.0 to RM 16.5
Figure C-4h	Highest Hit LiDAR Difference Map Series RM 16.5 to RM 19.0
Figure C-4i	Highest Hit LiDAR Difference Map Series RM 19.0 to RM 22.0
Figure C-4j	Highest Hit LiDAR Difference Map Series RM 22.0 to RM 24.5
Figure C-4k	Highest Hit LiDAR Difference Map Series RM 24.5 to RM 26.4

**Figure C-1a
Existing Conditions**












-  USGS Stream Gage
 -  Pebble Count Location
 -  Bank Protection
 -  Eroding Bank
 -  Geomorphic Reach Breaks
- Channel Unit
-  Dam Pool
 -  Glide
 -  Riffle
 -  Side Channel (slow)
 -  Side Channel (fast)
 -  Pool

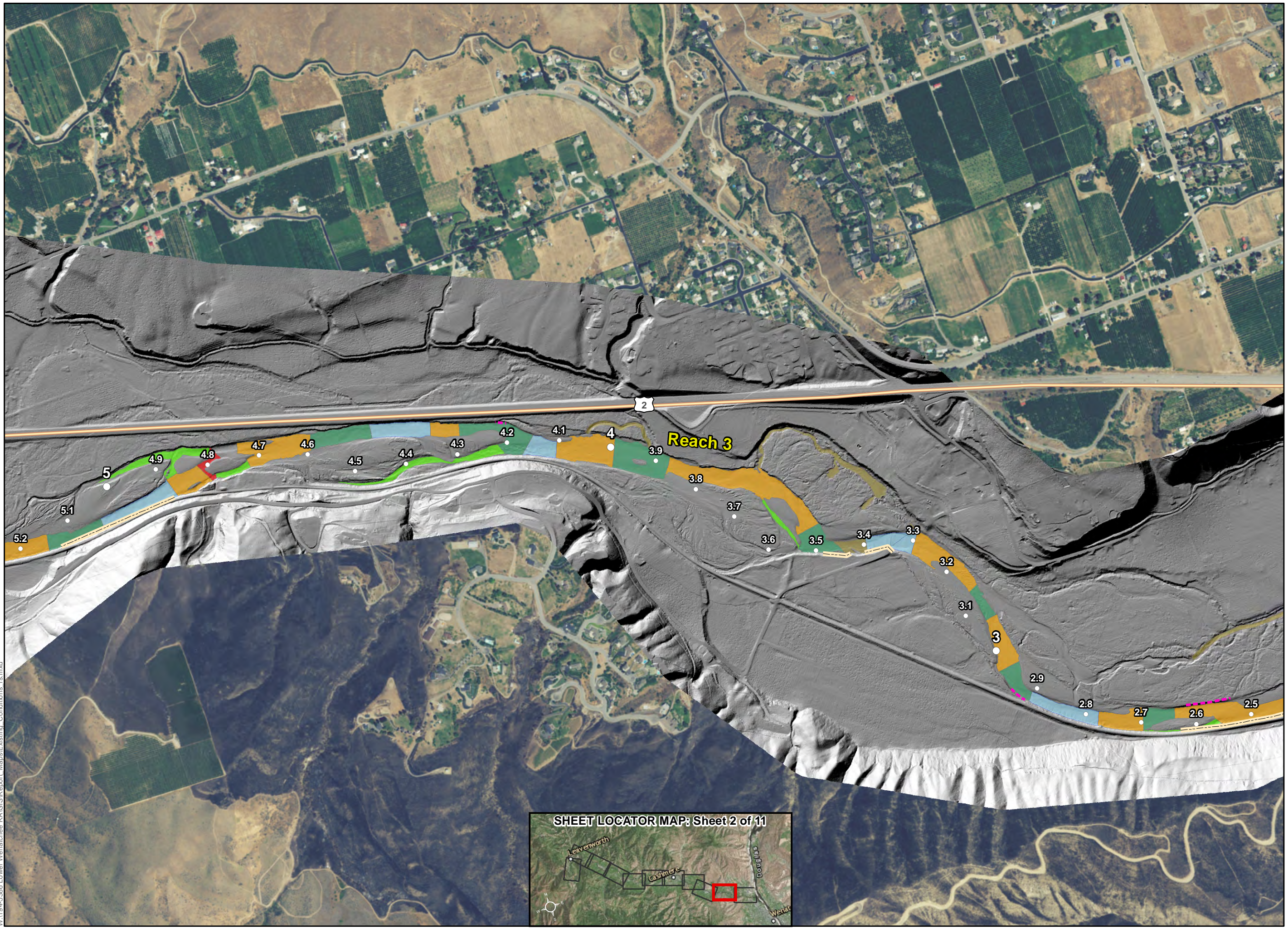


Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.

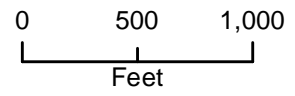


Figure C-1b
Existing Conditions

-  USGS Stream Gage
 -  Pebble Count Location
 -  Bank Protection
 -  Eroding Bank
 -  Geomorphic Reach Breaks
- Channel Unit
-  Glide
 -  Riffle
 -  Rapid
 -  Side Channel (slow)
 -  Side Channel (fast)
 -  Pool

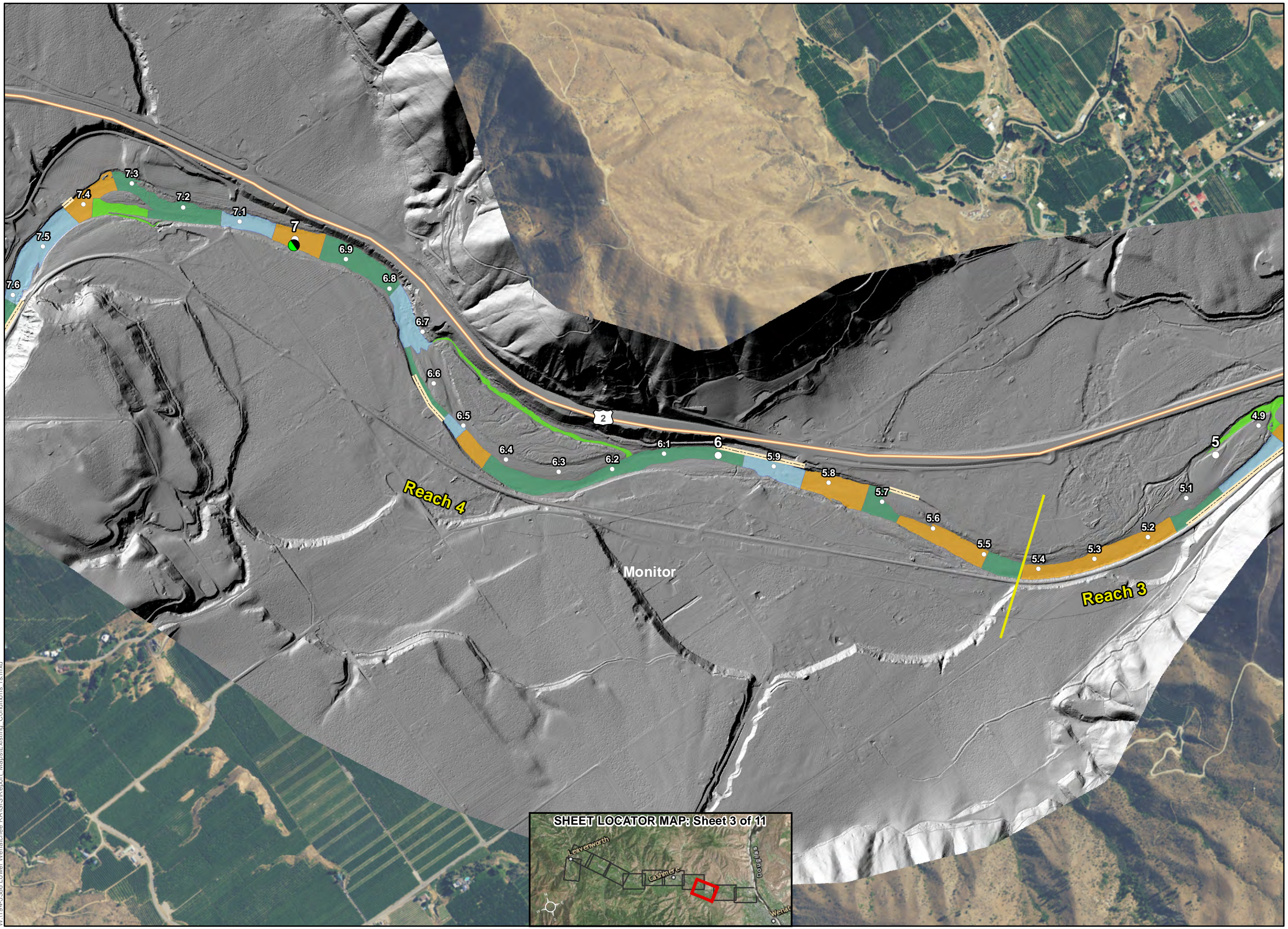


Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.



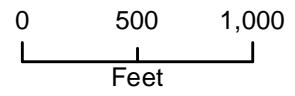
WA194-5386 Lower Wenatchee RA/GIS/Report Maps/Existing Conditions rs.mxd

Figure C-1c
Existing Conditions

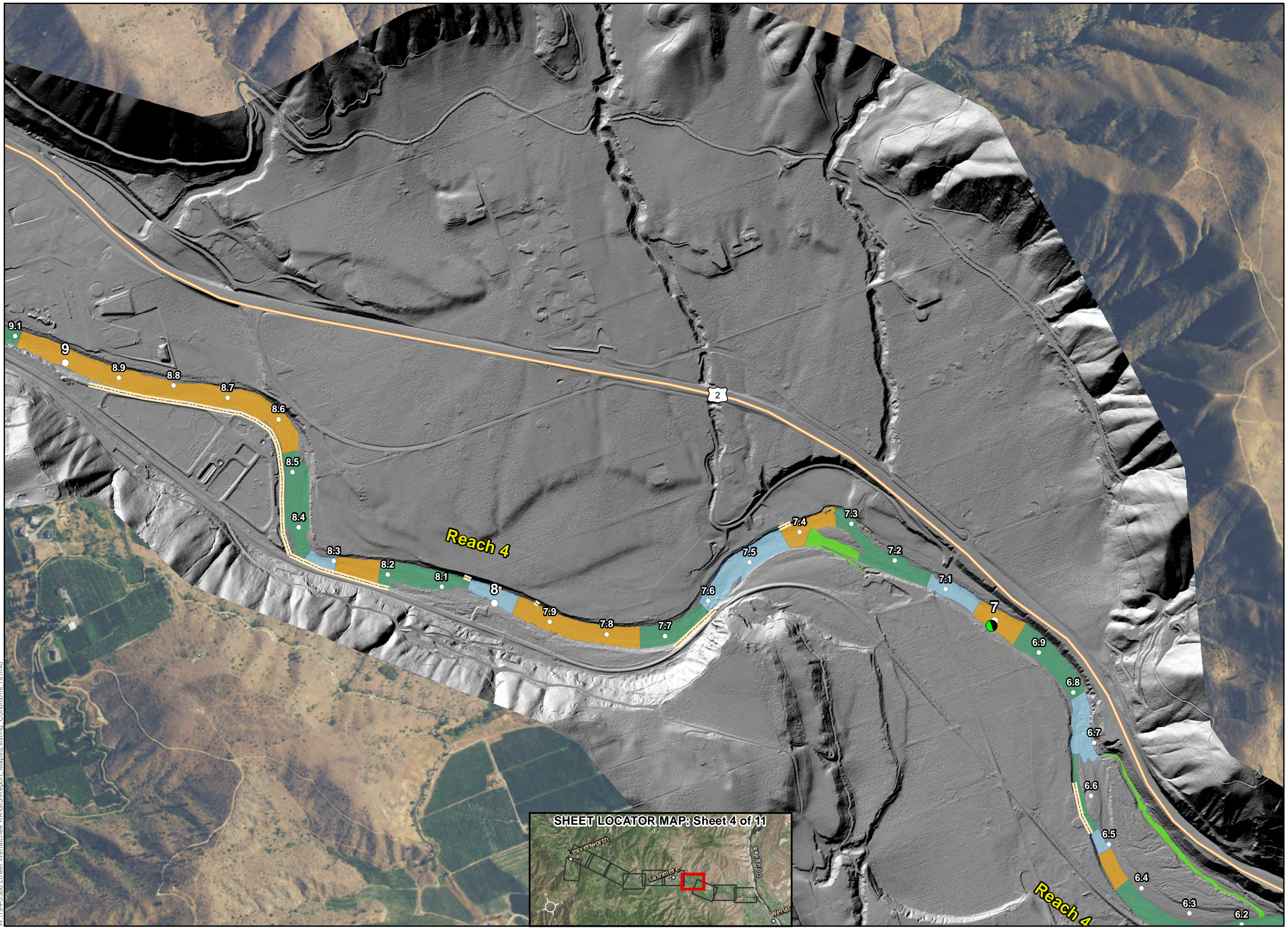




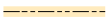






- USGS Stream Gage
 - Pebble Count Location
 - Bank Protection
 - Eroding Bank
 - Geomorphic Reach Breaks
- Channel Unit
- Glide
 - Riffle
 - Side Channel (fast)
 - Pool

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.



**Figure C-1d
Existing Conditions**



-  USGS Stream Gage
 -  Pebble Count Location
 -  Bank Protection
 -  Eroding Bank
 -  Geomorphic Reach Breaks
- Channel Unit
-  Glide
 -  Riffle
 -  Side Channel (fast)
 -  Pool

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.

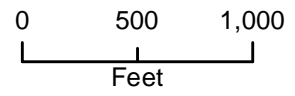
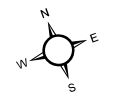











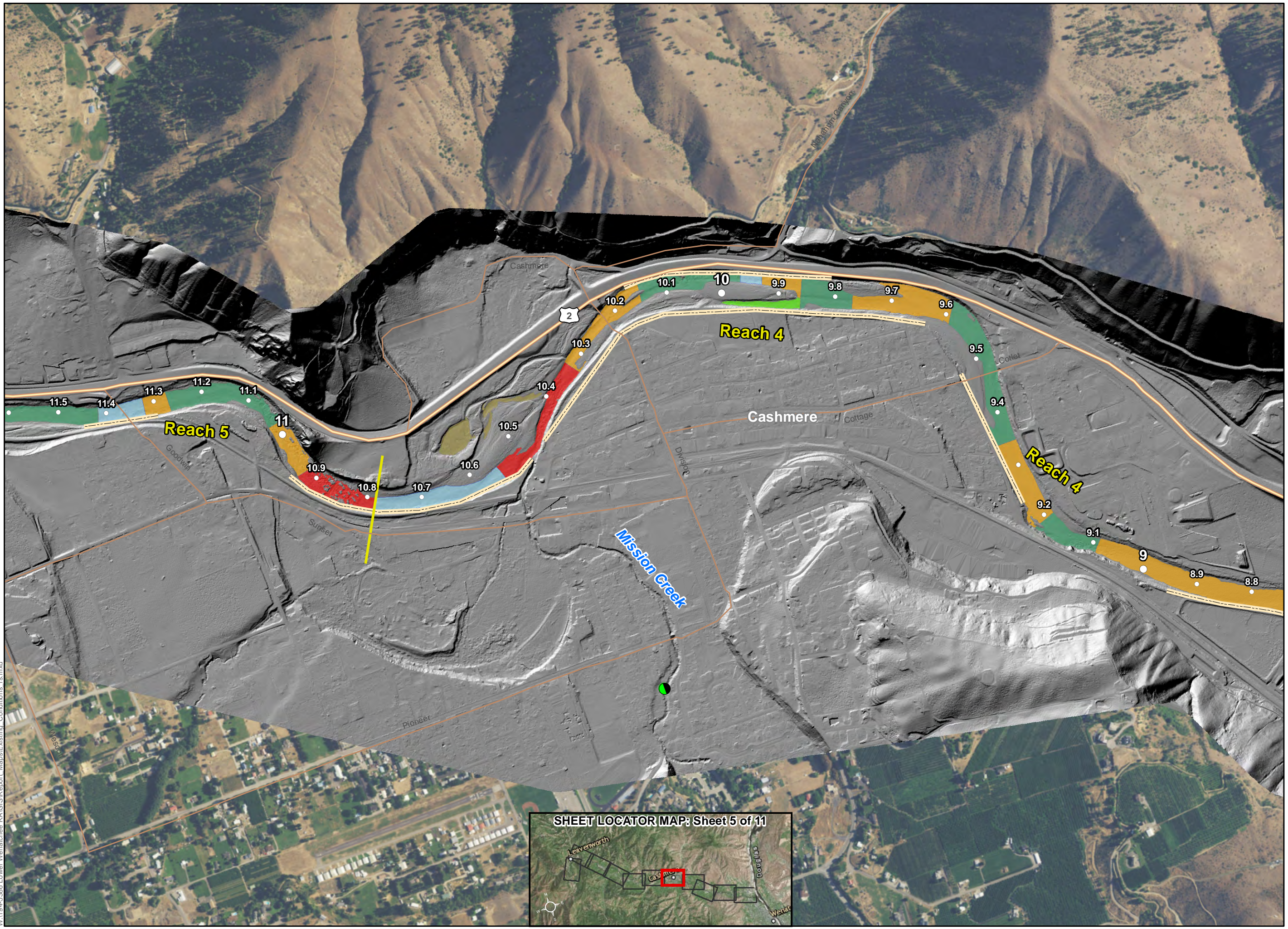


Figure C-1e
Existing Conditions

-  USGS Stream Gage
 -  Pebble Count Location
 -  Bank Protection
 -  Eroding Bank
 -  Geomorphic Reach Breaks
- Channel Unit
-  Glide
 -  Riffle
 -  Rapid
 -  Side Channel (slow)
 -  Side Channel (fast)
 -  Pool



Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.

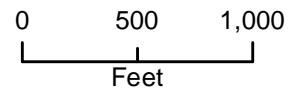










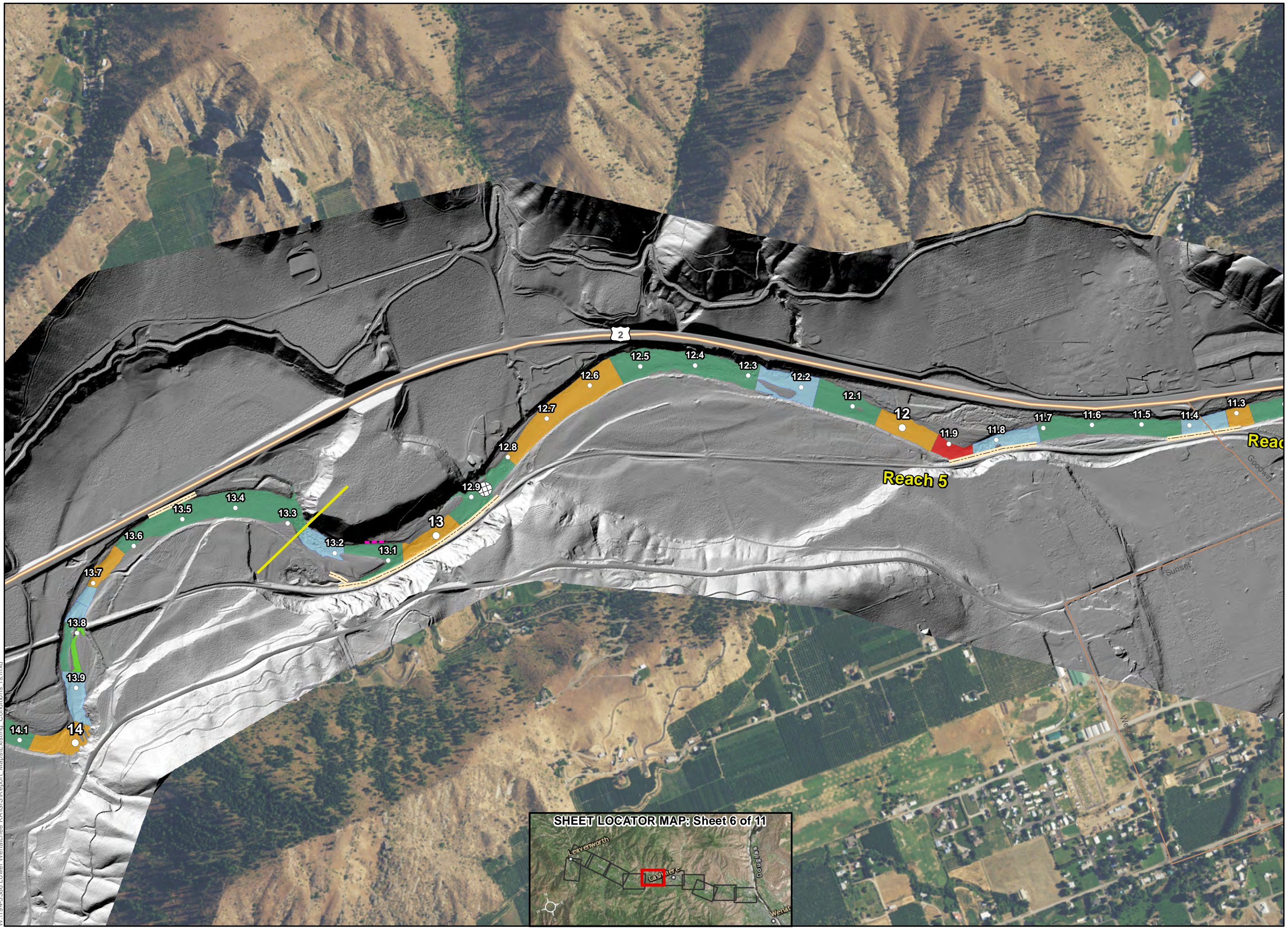
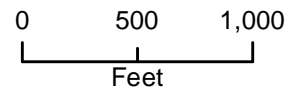


Figure C-1f
Existing Conditions

-  USGS Stream Gage
 -  Pebble Count Location
 -  Bank Protection
 -  Eroding Bank
 -  Geomorphic Reach Breaks
- Channel Unit
-  Glide
 -  Riffle
 -  Rapid
 -  Side Channel (fast)
 -  Pool

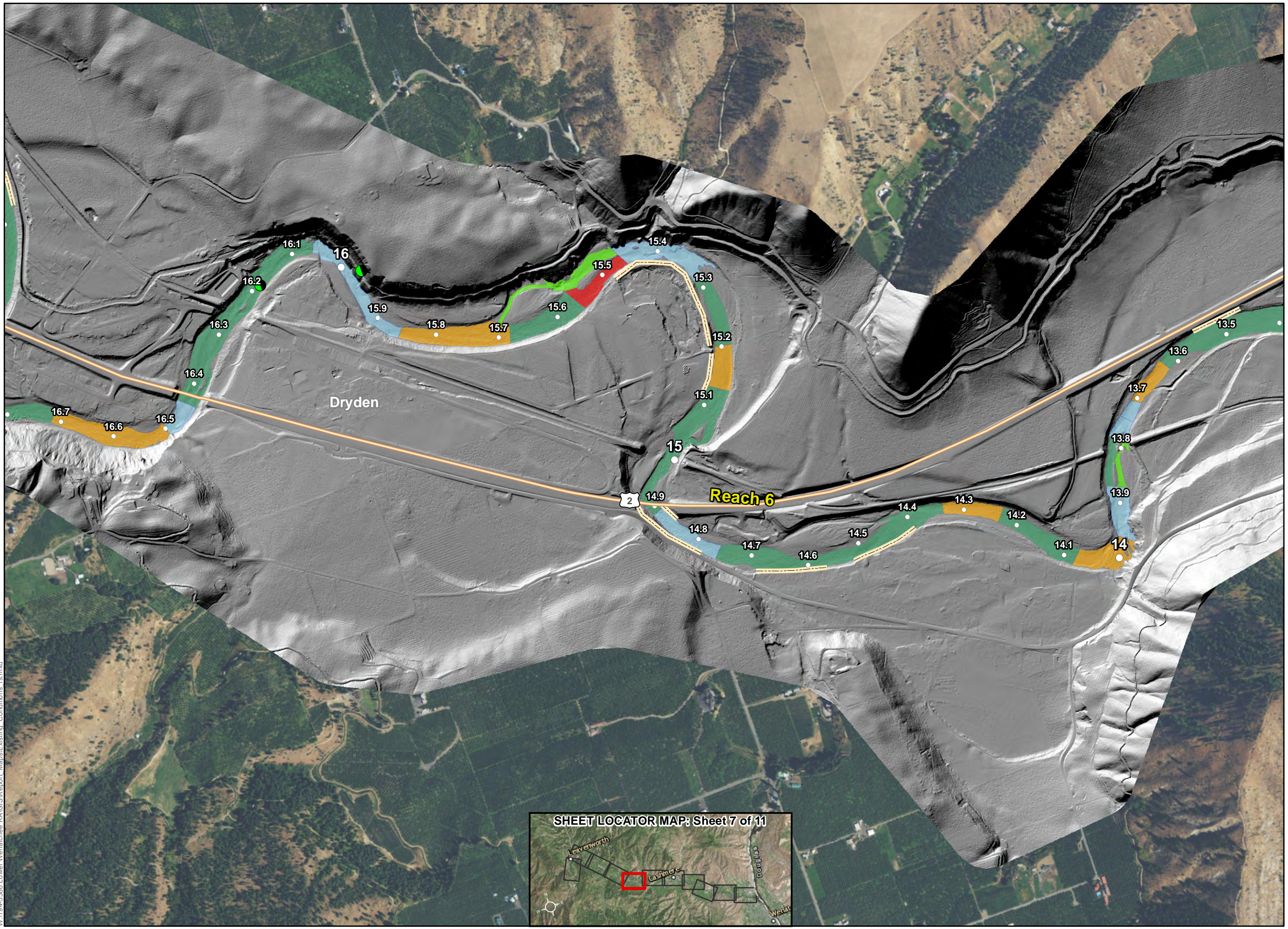












Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.



WA194-5386 Lower Wenatchee RAIGIS/Report Maps/Existing Conditions rs.mxd

Figure C-1g
Existing Conditions



-  USGS Stream Gauge
 -  Pebble Count Location
 -  Bank Protection
 -  Eroding Bank
 -  Geomorphic Reach Breaks
- Channel Unit
-  Glide
 -  Riffle
 -  Rapid
 -  Side Channel (fast)
 -  Pool

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.

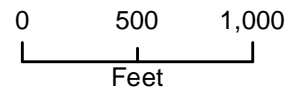
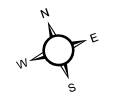
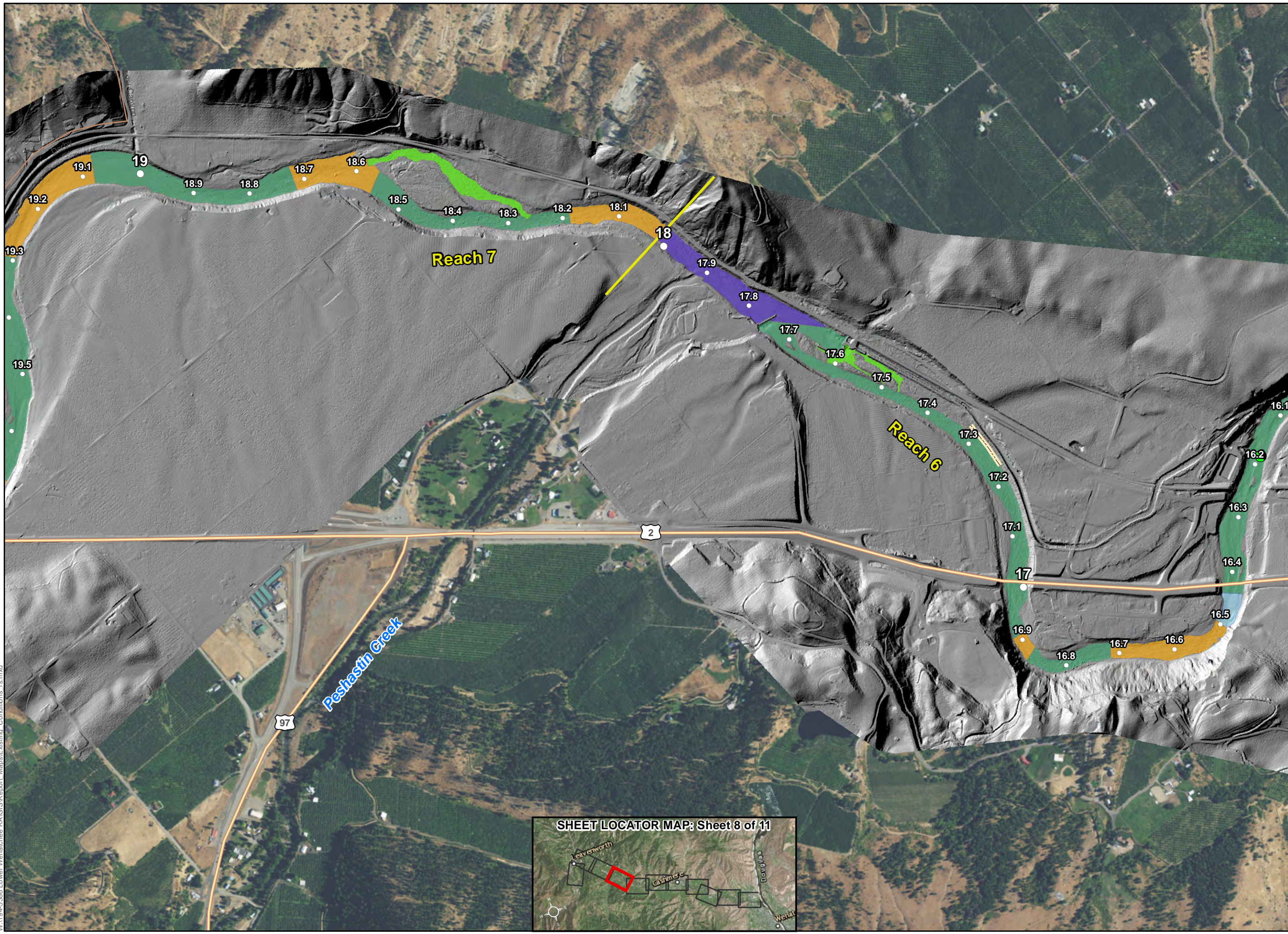












Figure C-1h
Existing Conditions



-  USGS Stream Gauge
 -  Pebble Count Location
 -  Bank Protection
 -  Eroding Bank
 -  Geomorphic Reach Breaks
- Channel Unit
-  Dam Pool
 -  Glide
 -  Riffle
 -  Side Channel (fast)
 -  Pool

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.

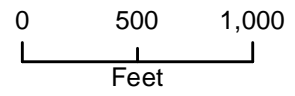
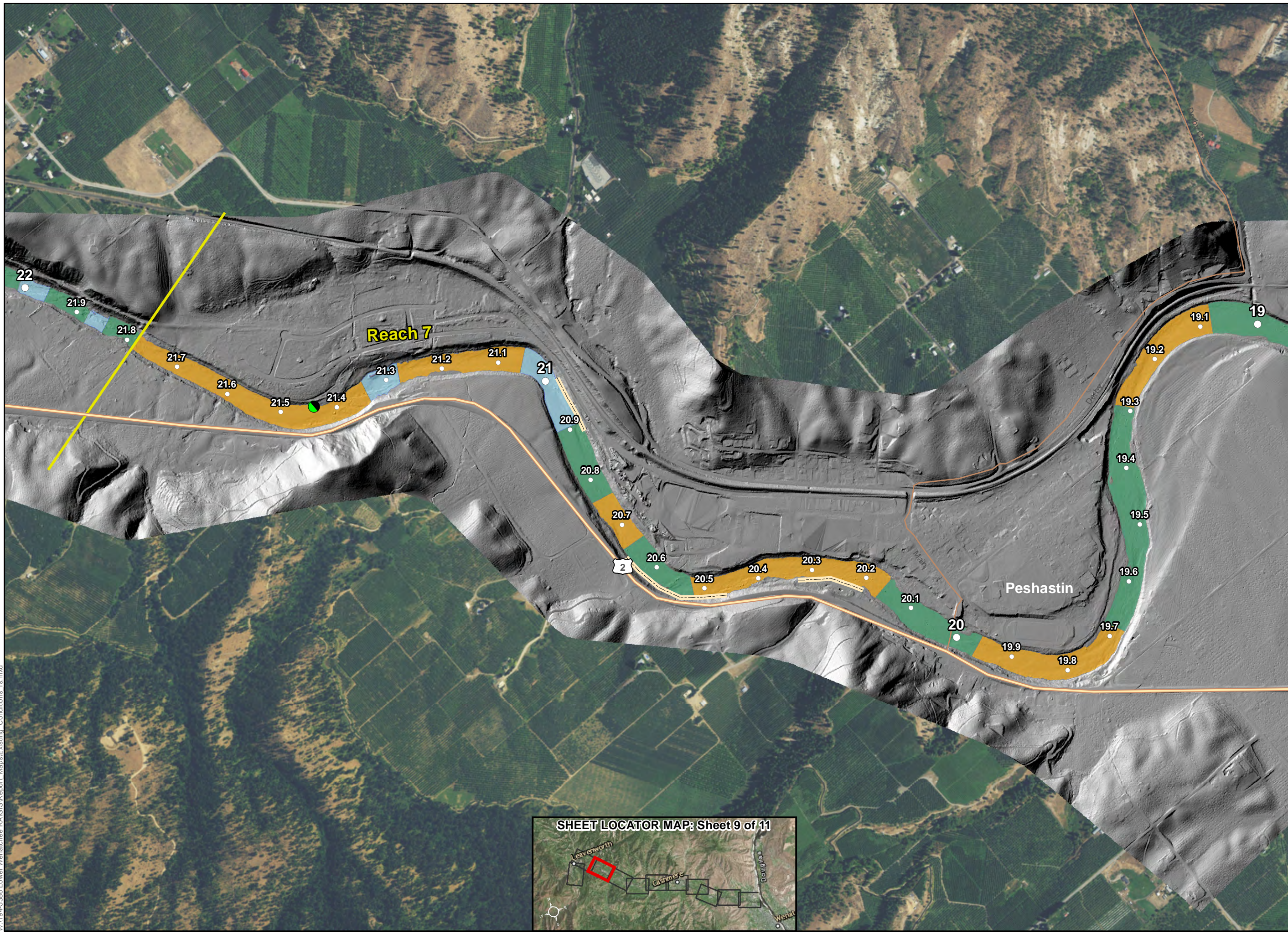







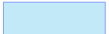


Figure C-1i
Existing Conditions



-  USGS Stream Gage
 -  Pebble Count Location
 -  Bank Protection
 -  Eroding Bank
 -  Geomorphic Reach Breaks
- Channel Unit
-  Glide
 -  Riffle
 -  Pool

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.

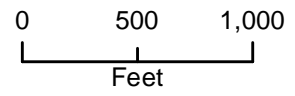
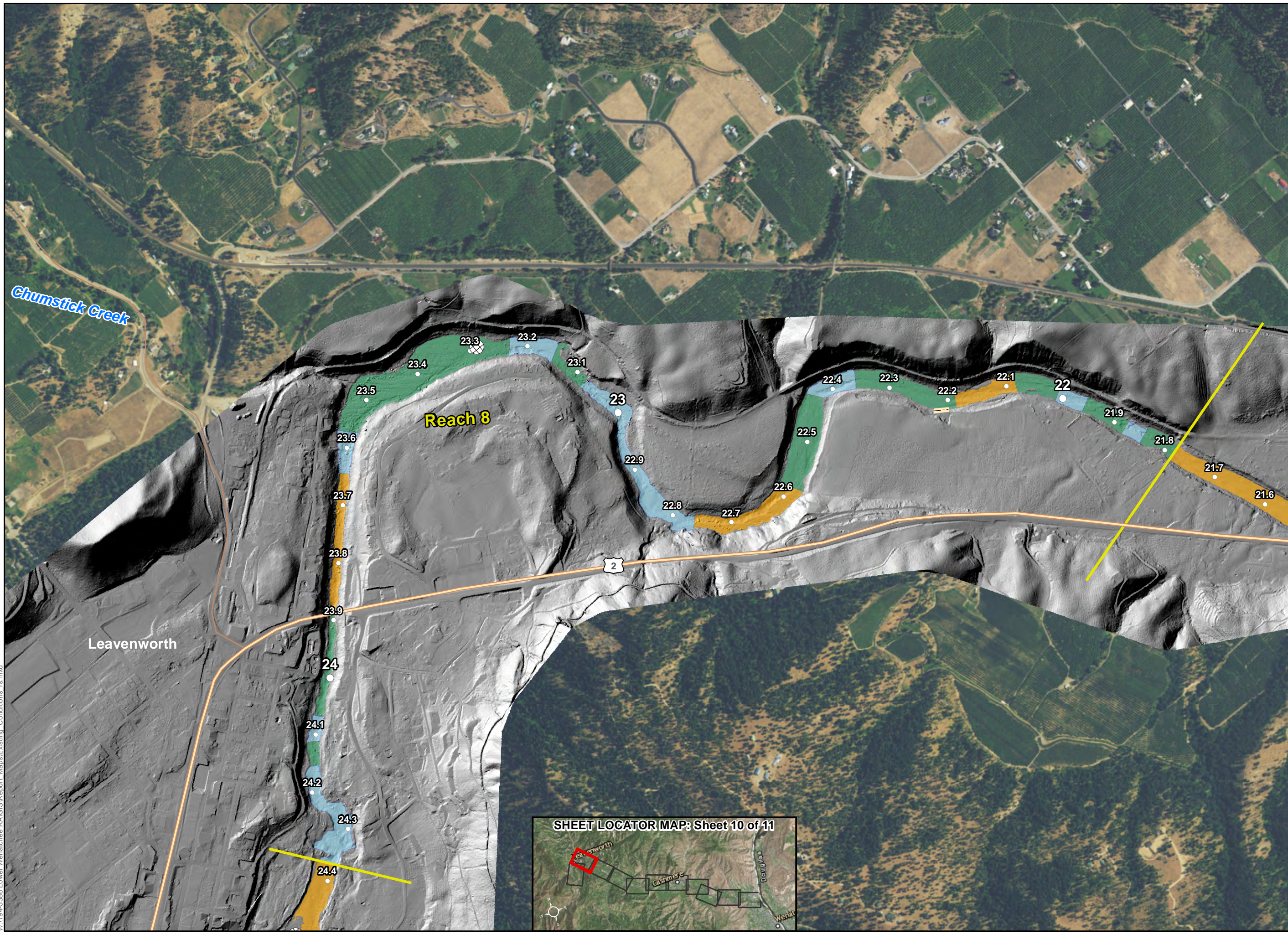








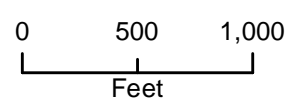


Figure C-1j
Existing Conditions



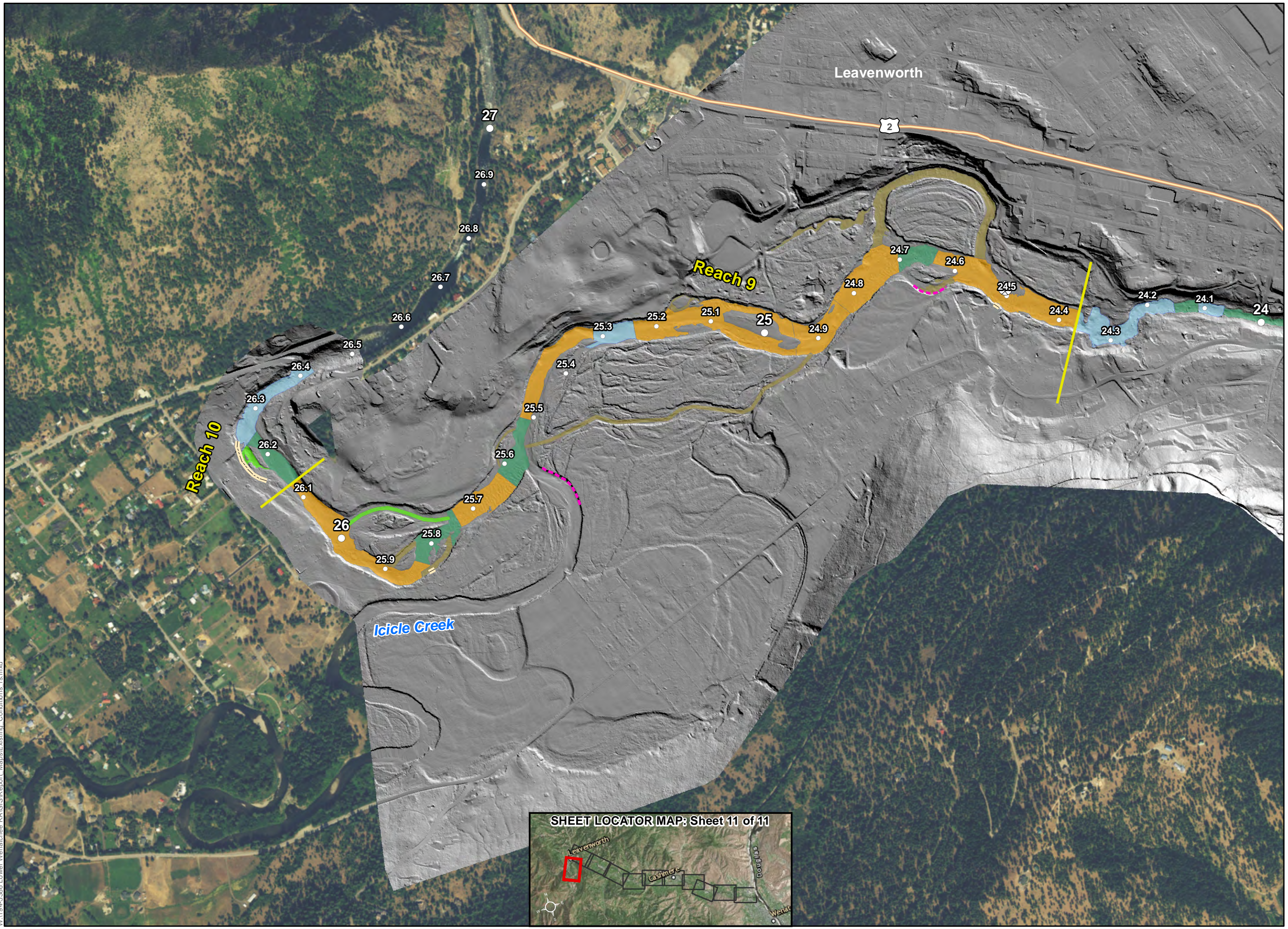
-  USGS Stream Gage
 -  Pebble Count Location
 -  Bank Protection
 -  Eroding Bank
 -  Geomorphic Reach Breaks
- Channel Unit
-  Glide
 -  Riffle
 -  Pool











Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.



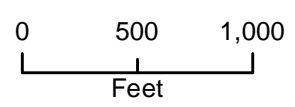
WA194-5366 Lower Wenatchee RA\GIS\Report Maps\Existing Conditions_rs.mxd

**Figure C-1k
Existing Conditions**

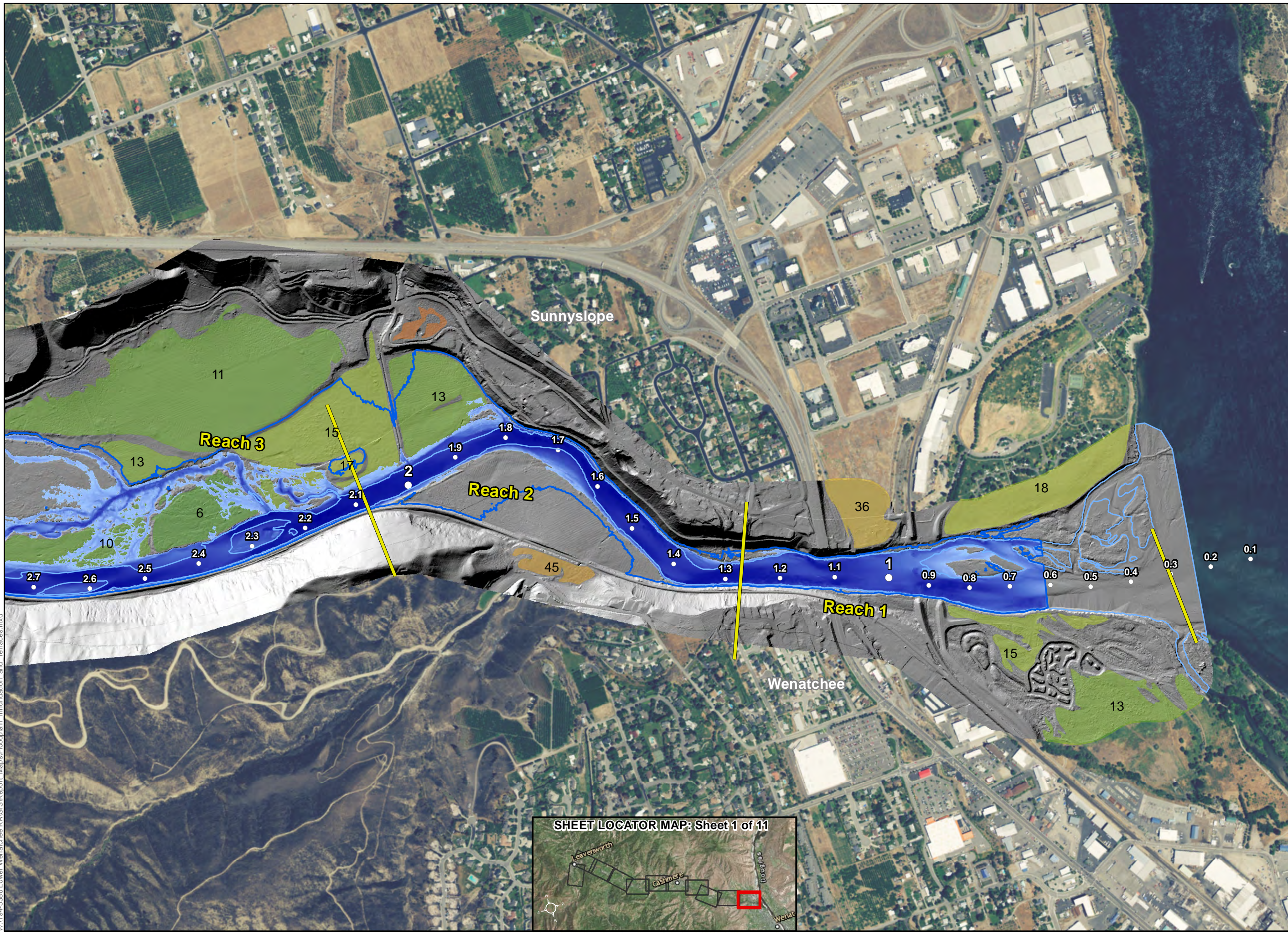


-  USGS Stream Gage
 -  Pebble Count Location
 -  Bank Protection
 -  Eroding Bank
 -  Geomorphic Reach Breaks
- Channel Unit
-  Glide
 -  Riffle
 -  Side Channel (slow)
 -  Side Channel (fast)
 -  Pool

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.



**Figure C-2a
Inundation and
Terrace Mapping**



- USGS River Mile
- Geomorphic Reach Breaks
- Survey Flow Wetted Extent
- 100-Year Extent

2-Year Depth (ft)

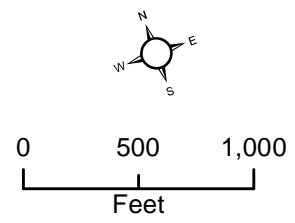
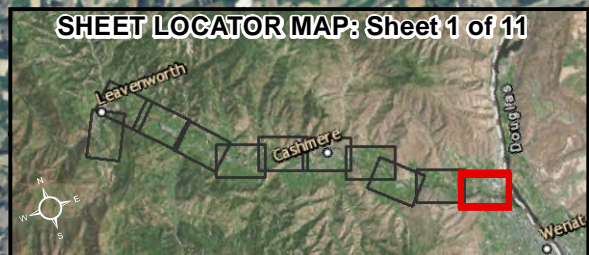
24
19
15
10
5
0

Terrace Relief (ft)

High : 228
Mid : 30
Low : 6

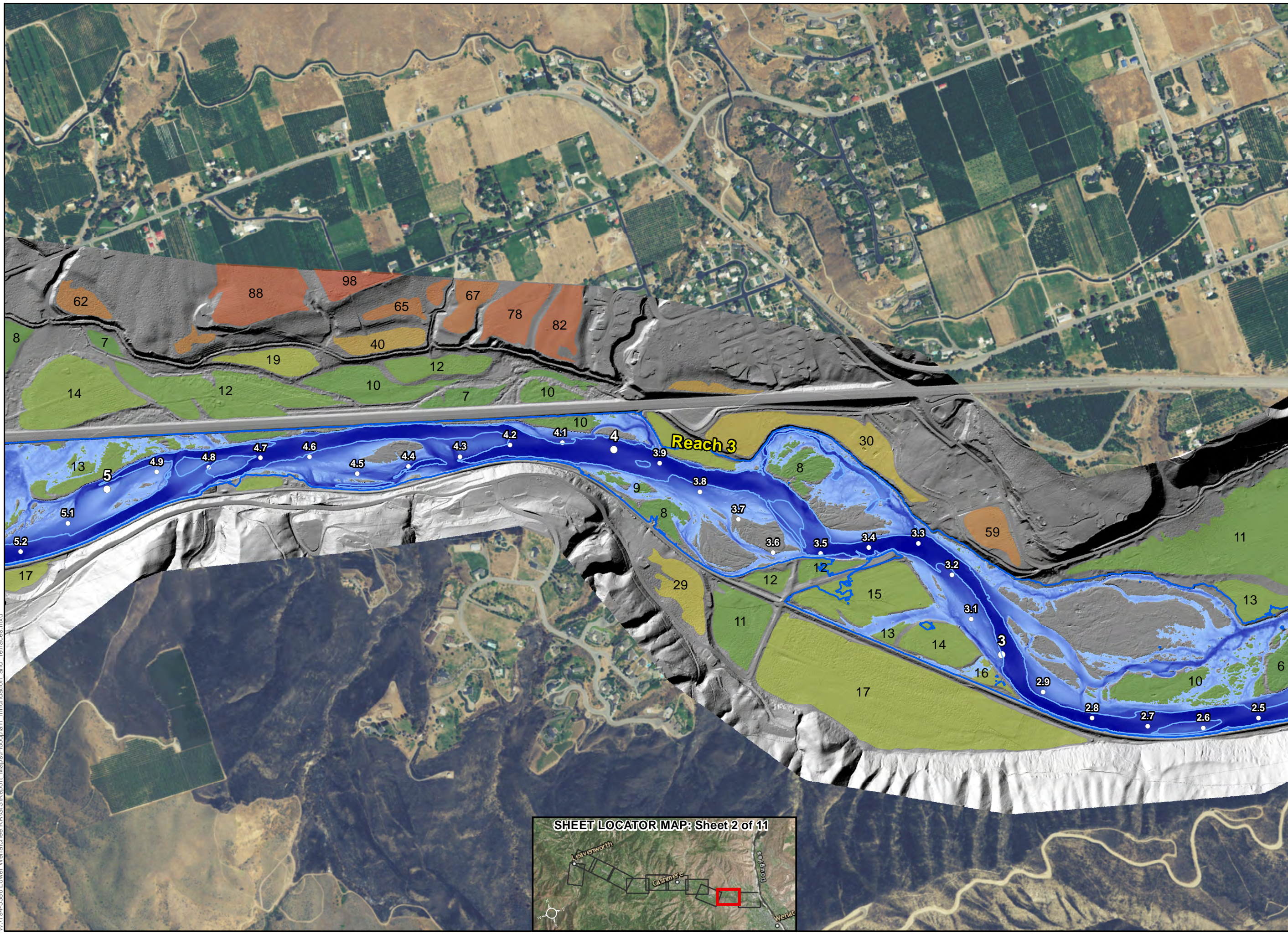
Average terrace relief is measured relative to the average elevation of the adjacent channel bed. See values labeled on map.

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.



WA1194-5386 Lower Wenatchee RAIGS Report Maps\Floodplain_Inundation and Terraces.mxd

**Figure C-2b
Inundation and
Terrace Mapping**



- USGS River Mile
- Geomorphic Reach Breaks
- Survey Flow Wetted Extent
- 100-Year Extent

2-Year Depth (ft)

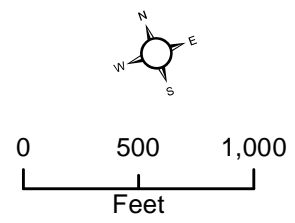
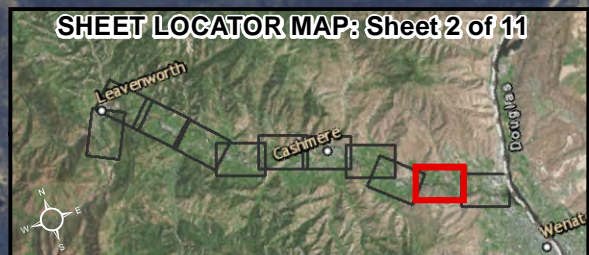
24
19
15
10
5
0

Terrace Relief (ft)

High : 228
Mid : 30
Low : 6

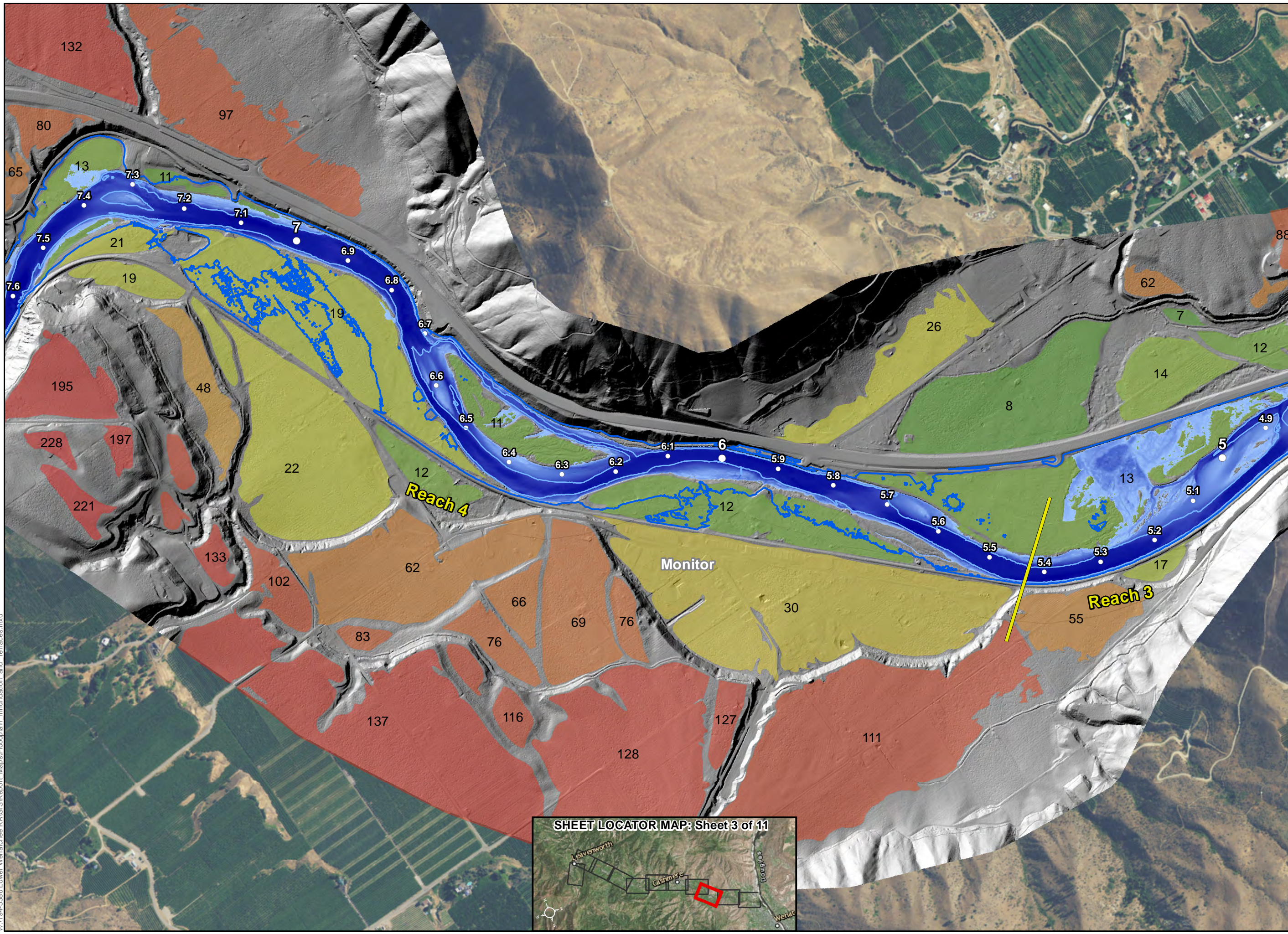
Average terrace relief is measured relative to the average elevation of the adjacent channel bed. See values labeled on map.

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.



WA194-53866 Lower Wenatchee RAIGS Report Maps\Floodplain_Inundation and Terraces.mxd

**Figure C-2c
Inundation and
Terrace Mapping**



- USGS River Mile
- Geomorphic Reach Breaks
- Survey Flow Wetted Extent
- 100-Year Extent

2-Year Depth (ft)

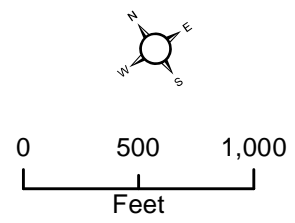
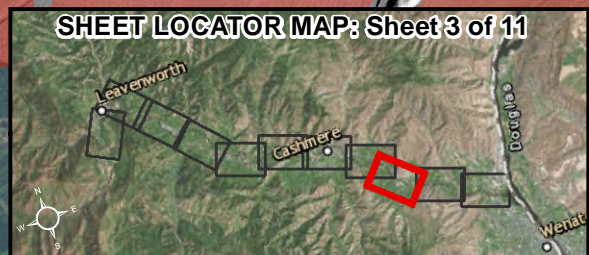
24
19
15
10
5
0

Terrace Relief (ft)

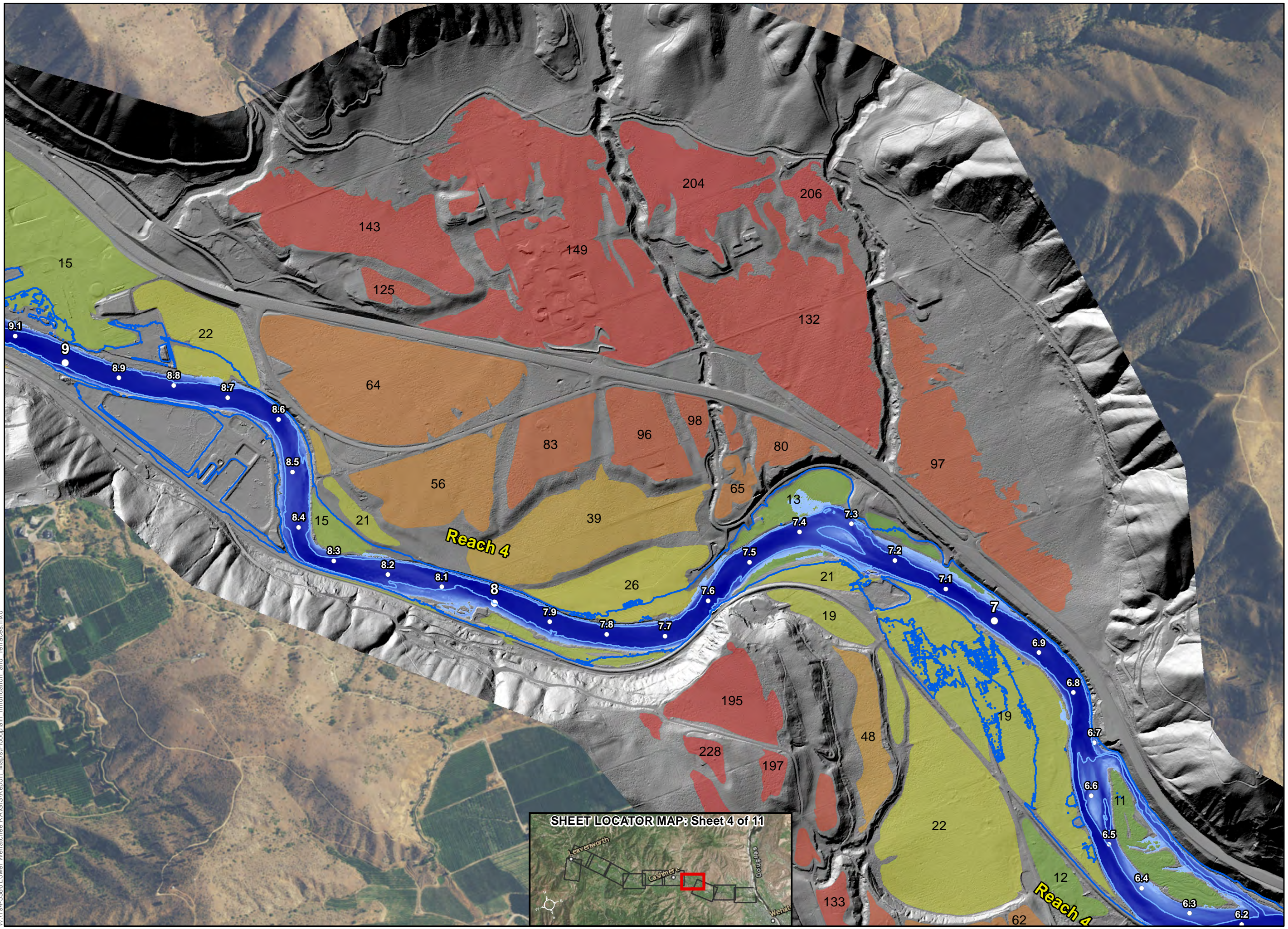
High : 228
Mid : 30
Low : 6

Average terrace relief is measured relative to the average elevation of the adjacent channel bed. See values labeled on map.

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.



**Figure C-2d
Inundation and
Terrace Mapping**



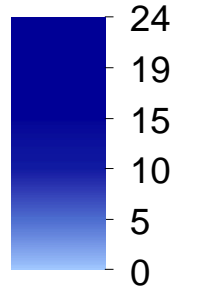
○ USGS River Mile

— Geomorphic Reach Breaks

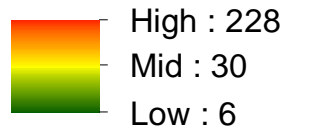
Survey Flow Wetted Extent

100-Year Extent

2-Year Depth (ft)

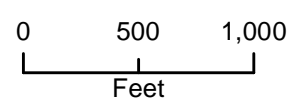
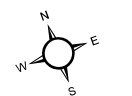
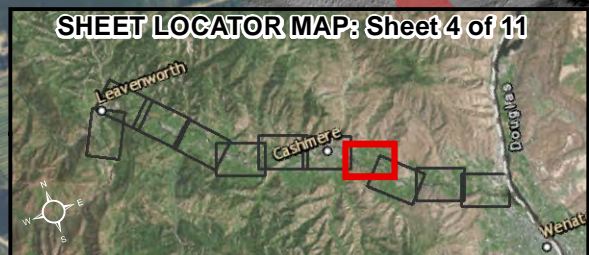


Terrace Relief (ft)

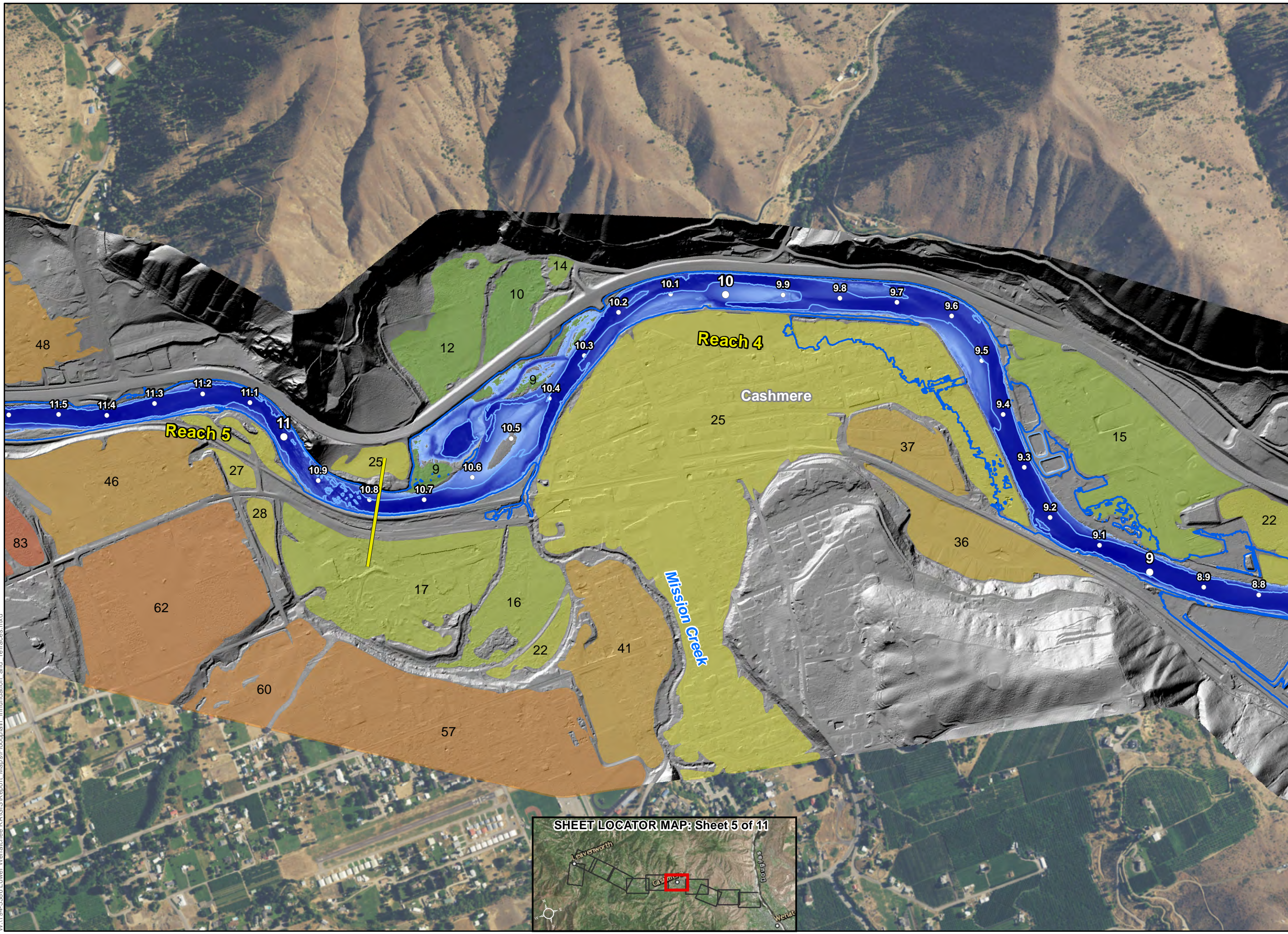


Average terrace relief is measured relative to the average elevation of the adjacent channel bed. See values labeled on map.

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.



**Figure C-2e
Inundation and
Terrace Mapping**



- USGS River Mile
- Geomorphic Reach Breaks
- Survey Flow Wetted Extent
- 100-Year Extent

2-Year Depth (ft)

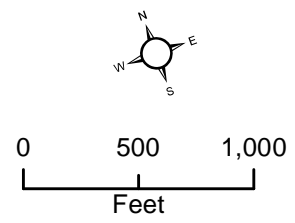
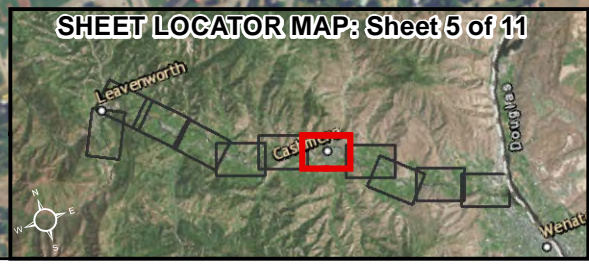
24
19
15
10
5
0

Terrace Relief (ft)

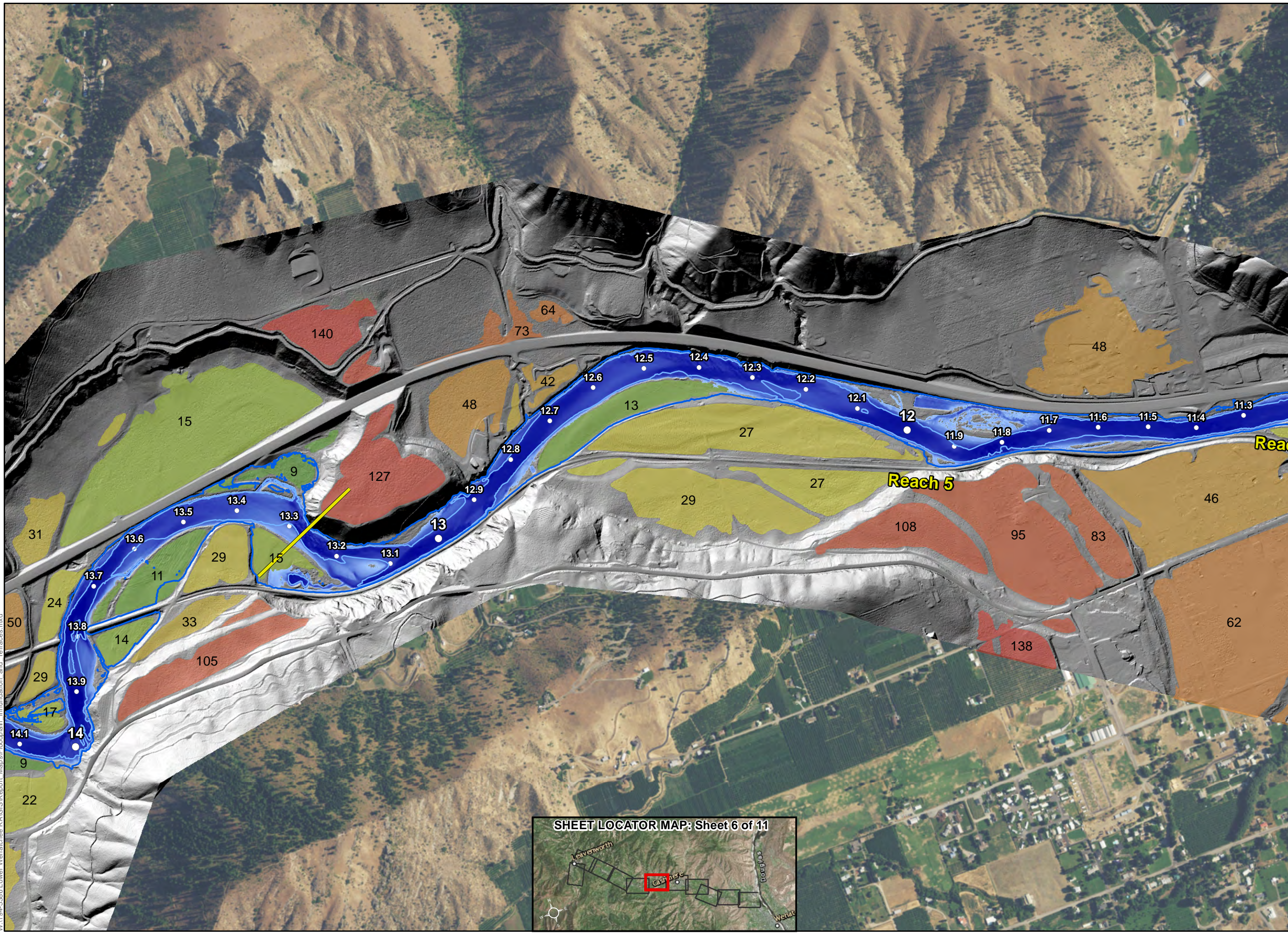
High : 228
Mid : 30
Low : 6

Average terrace relief is measured relative to the average elevation of the adjacent channel bed. See values labeled on map.

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.



**Figure C-2f
Inundation and
Terrace Mapping**



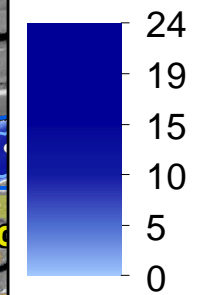
○ USGS River Mile

— Geomorphic Reach Breaks

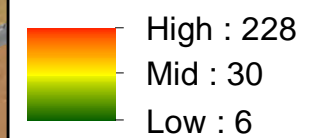
Survey Flow Wetted Extent

100-Year Extent

2-Year Depth (ft)



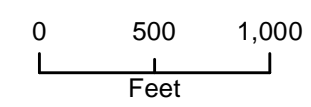
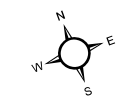
Terrace Relief (ft)



Average terrace relief is measured relative to the average elevation of the adjacent channel bed. See values labeled on map.

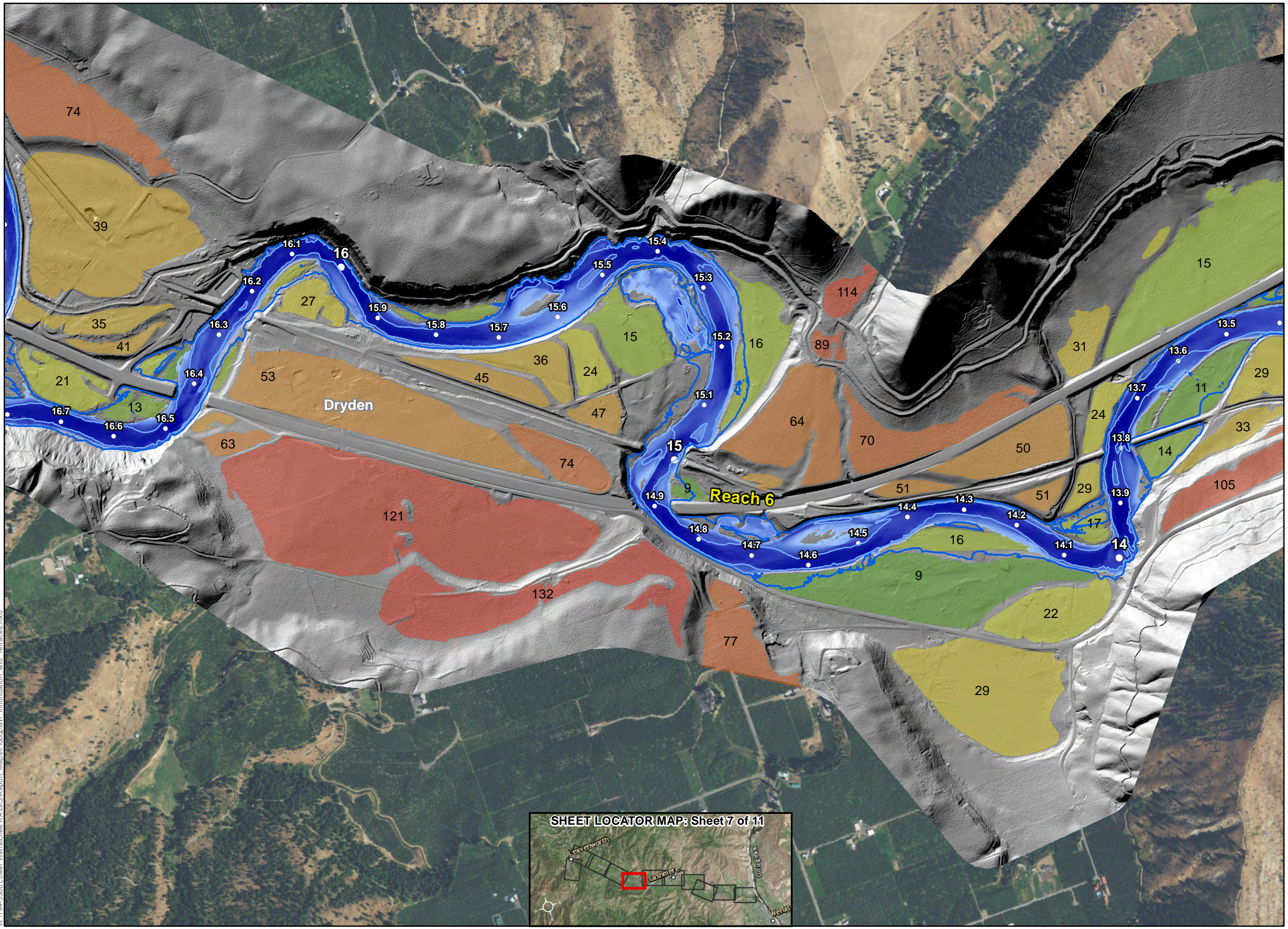
Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.

SHEET LOCATOR MAP: Sheet 6 of 11



WA1194-5386 Lower Wenatchee RAIGS Report Maps/Floodplain, Inundation and Terraces.mxd

**Figure C-2g
Inundation and
Terrace Mapping**

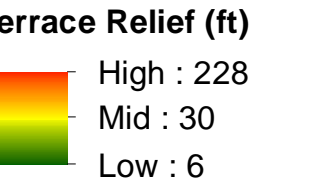
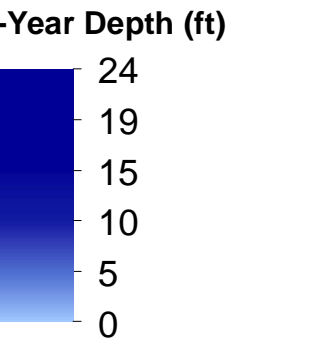


○ USGS River Mile

— Geomorphic Reach Breaks

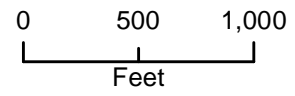
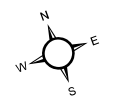
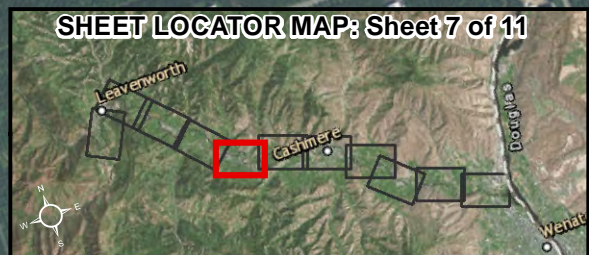
□ Survey Flow Wetted Extent

□ 100-Year Extent

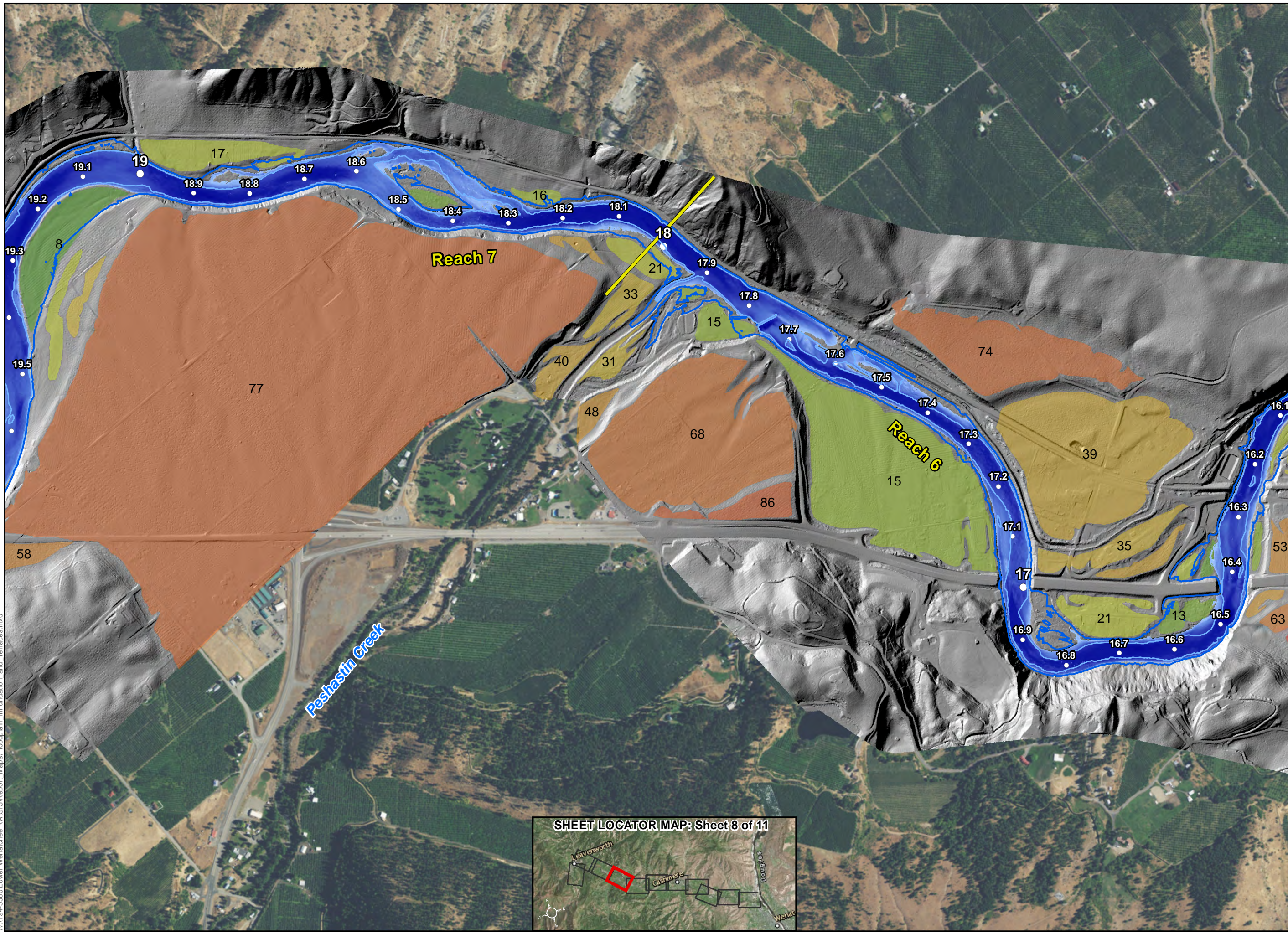


Average terrace relief is measured relative to the average elevation of the adjacent channel bed. See values labeled on map.

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.



**Figure C-2h
Inundation and
Terrace Mapping**



- USGS River Mile
- Geomorphic Reach Breaks
- ▭ Survey Flow Wetted Extent
- ▭ 100-Year Extent

2-Year Depth (ft)

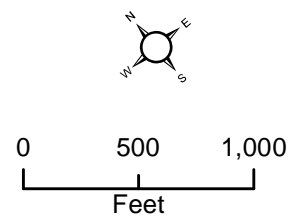
24
19
15
10
5
0

Terrace Relief (ft)

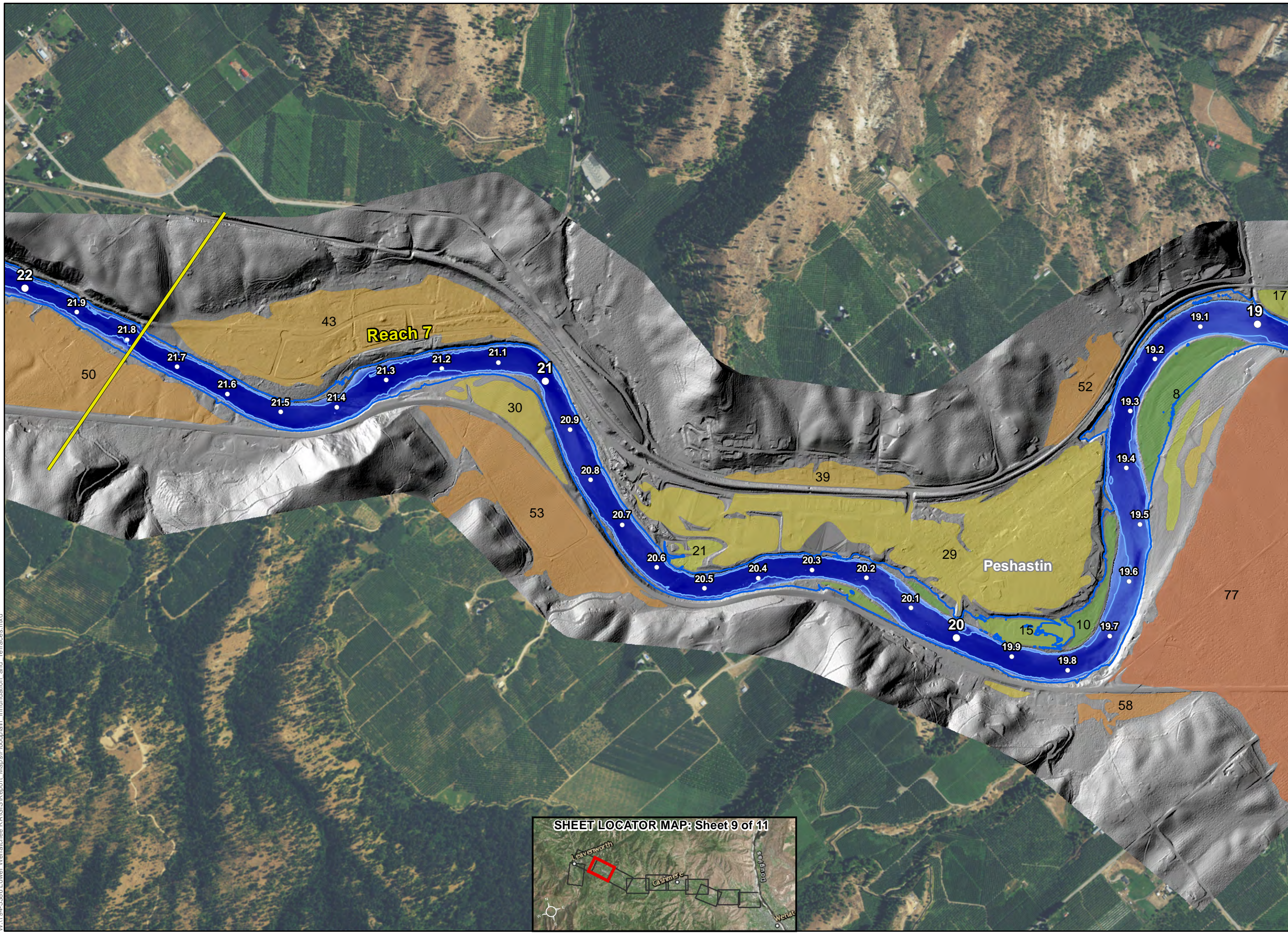
High : 228
Mid : 30
Low : 6

Average terrace relief is measured relative to the average elevation of the adjacent channel bed. See values labeled on map.

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.



**Figure C-2i
Inundation and
Terrace Mapping**

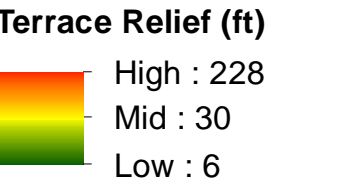
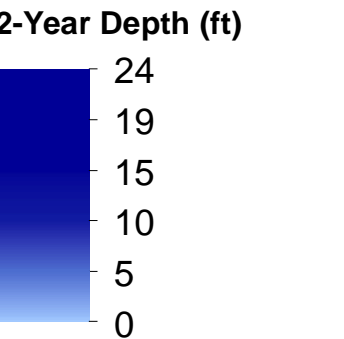


○ USGS River Mile

— Geomorphic Reach Breaks

Survey Flow Wetted Extent

100-Year Extent



Average terrace relief is measured relative to the average elevation of the adjacent channel bed. See values labeled on map.

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.

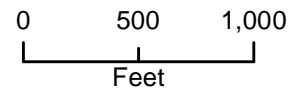
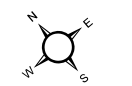
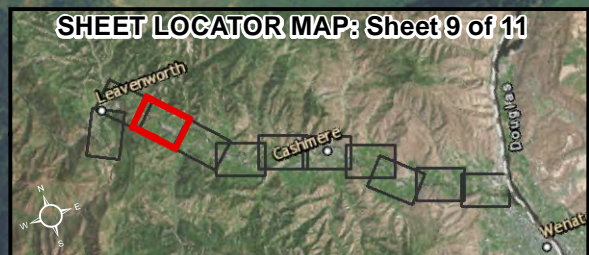
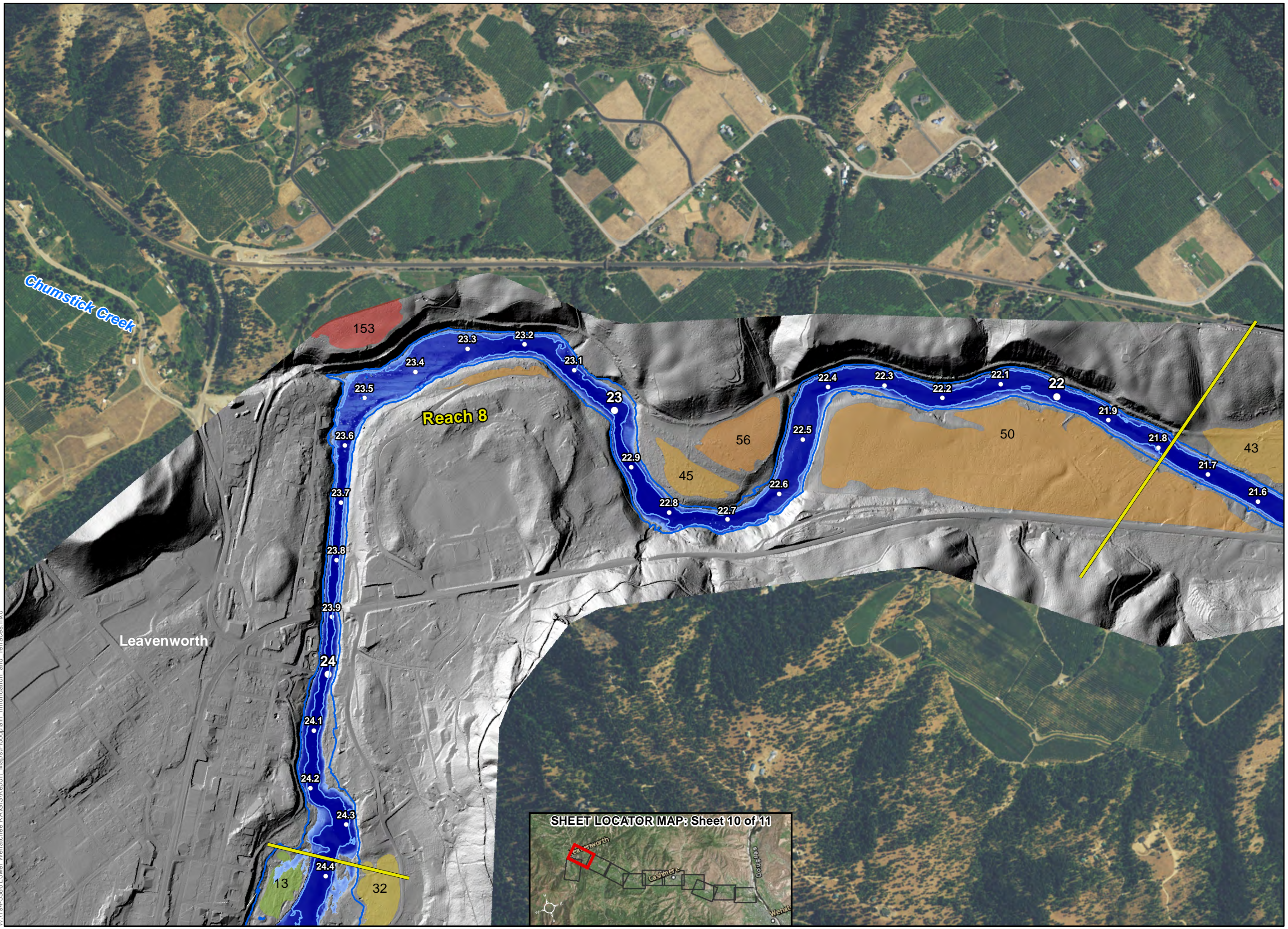


Figure C-2j
Inundation and
Terrace Mapping



- USGS River Mile
- Geomorphic Reach Breaks
- Survey Flow Wetted Extent
- 100-Year Extent

2-Year Depth (ft)

24
19
15
10
5
0

Terrace Relief (ft)

High : 228
Mid : 30
Low : 6

Average terrace relief is measured relative to the average elevation of the adjacent channel bed. See values labeled on map.

Base layers: combined topographic hillshade (2015) and 2015 National Agriculture Imagery Program (NAIP) aerial imagery.

