

APPENDIX G. 1983 LOWER SUSITNA RIVER SEGMENT GEOMORPHIC FEATURES

**Susitna-Watana Hydroelectric Project
(FERC No. 14241)**

Geomorphology Study (6.5)

**Mapping of Geomorphic Features and Turnover
within the Middle and Lower Susitna River Segments
from 1950s, 1980s, and Current Aerials
Technical Memorandum**

Prepared for

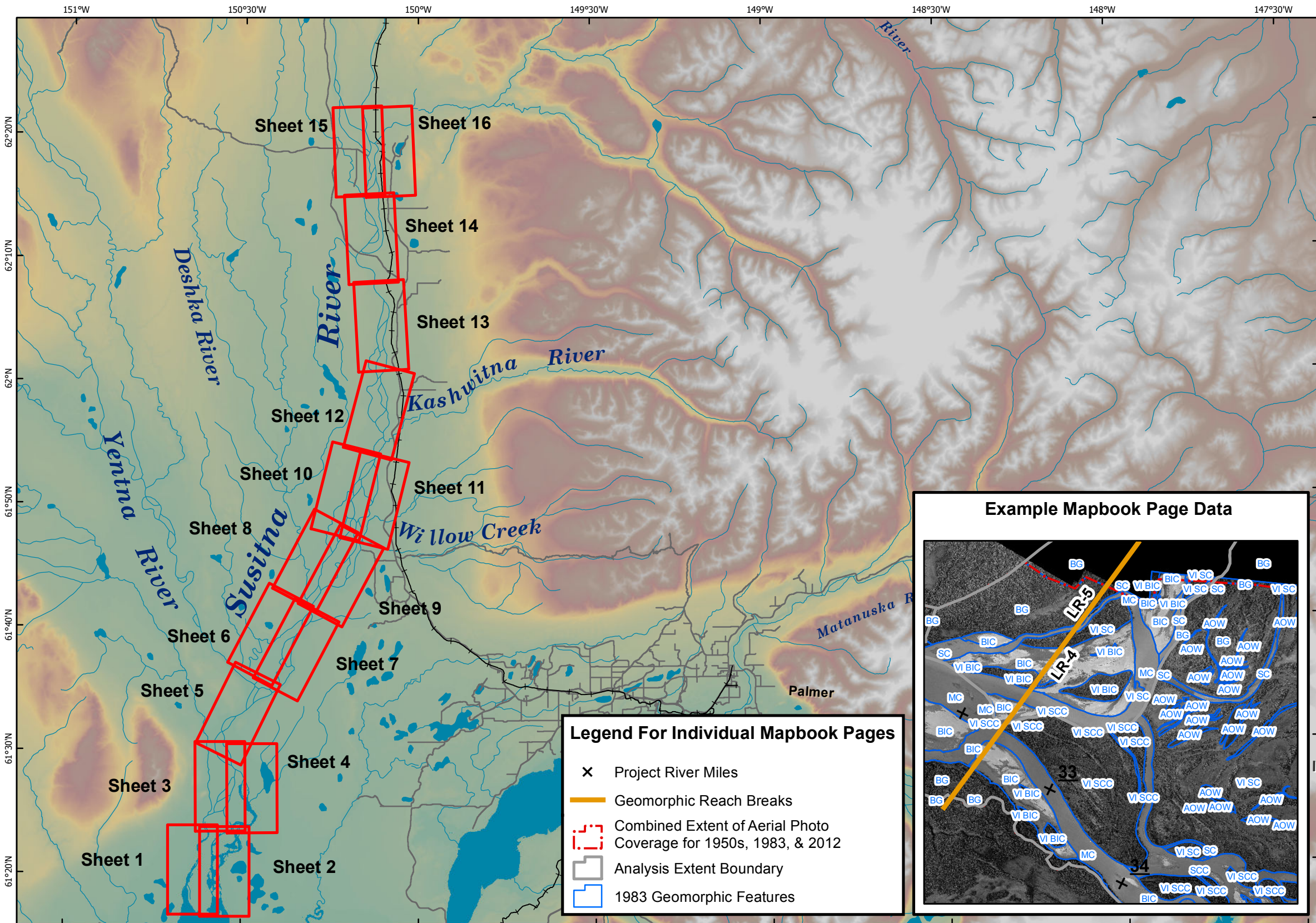
Alaska Energy Authority



Prepared by

Tetra Tech Inc.

September 2014



LOWER SUSITNA RIVER SEGMENT 1983 GEOMORPHIC FEATURES

Legend

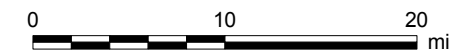
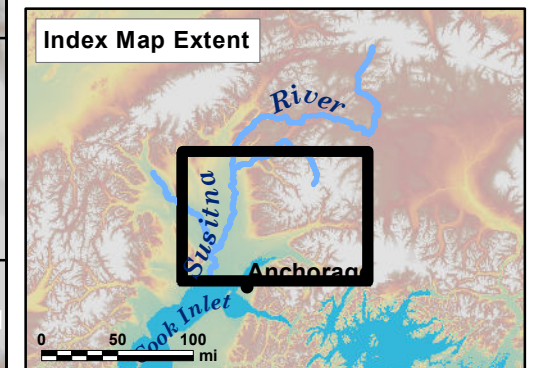
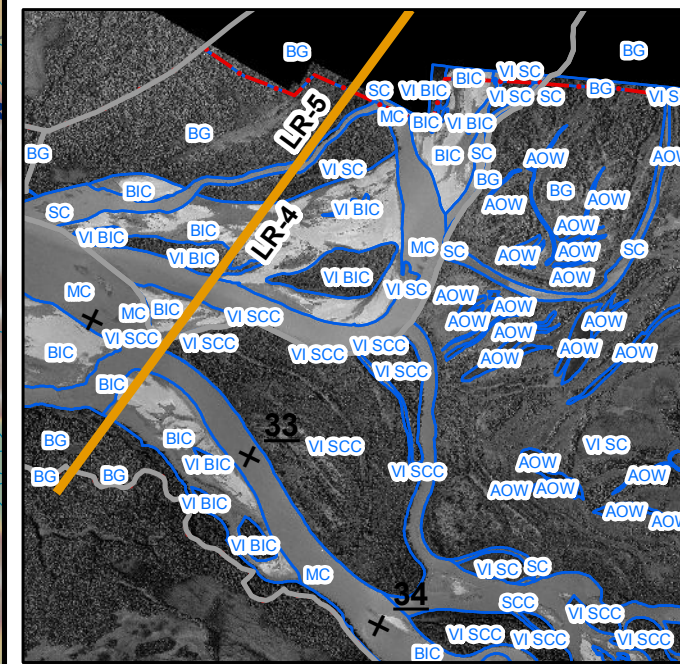
- Sheet Extents
- Roads
- Railroads
- Rivers and Streams
- Waterbodies

Data Sources: See Map References

Legend For Individual Mapbook Pages

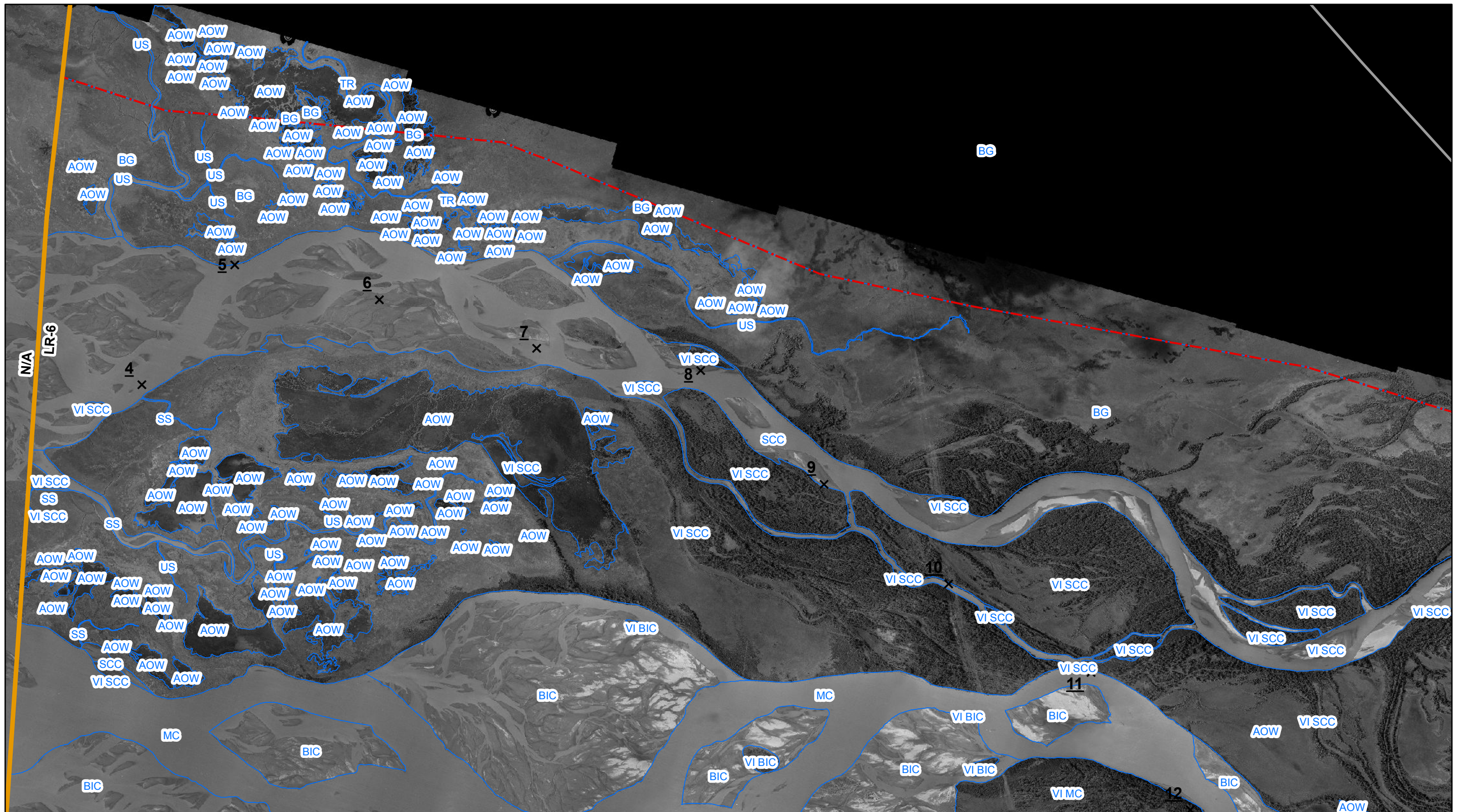
- Project River Miles
- Geomorphic Reach Breaks
- Combined Extent of Aerial Photo Coverage for 1950s, 1983, & 2012
- Analysis Extent Boundary
- 1983 Geomorphic Features

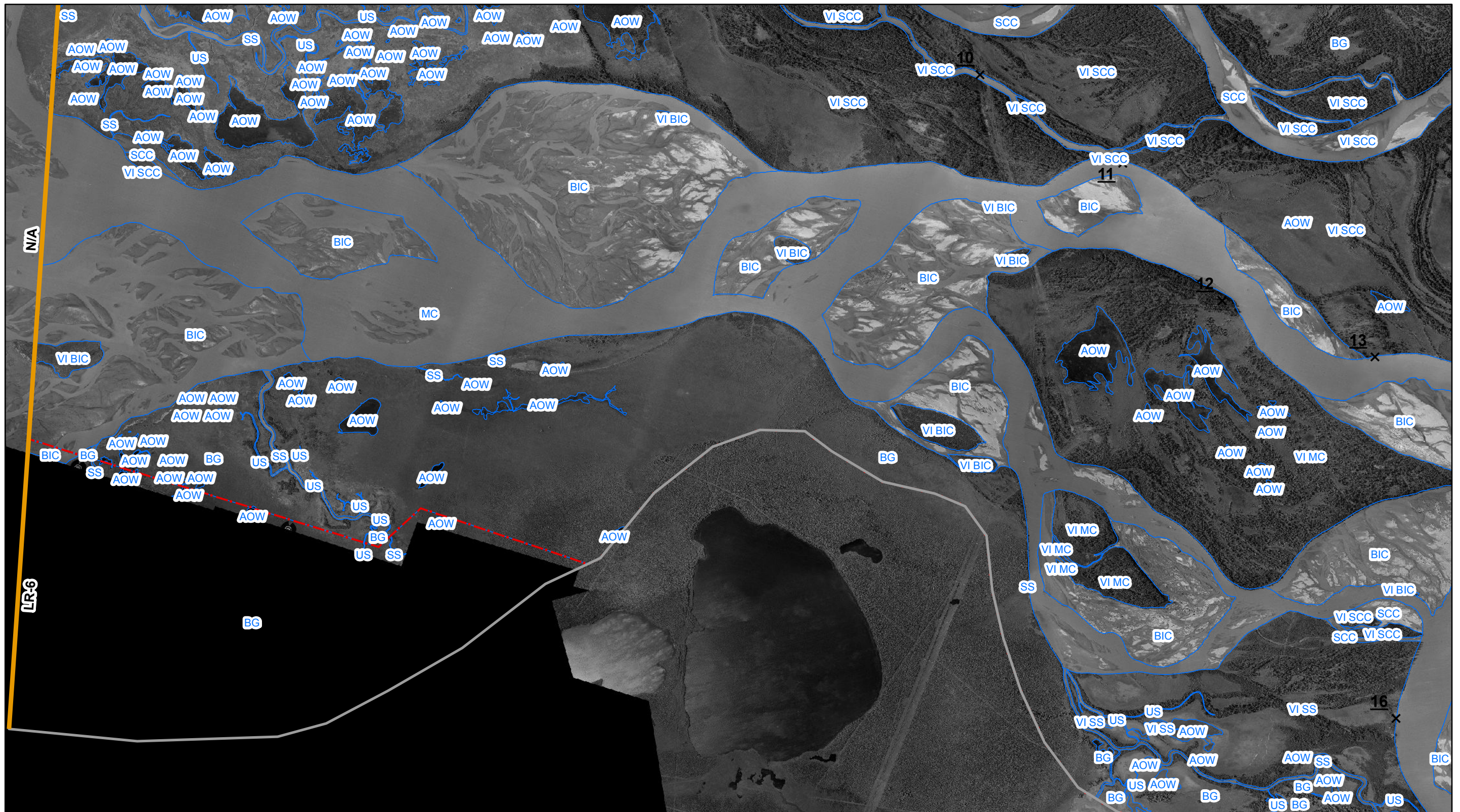
Example Mapbook Page Data

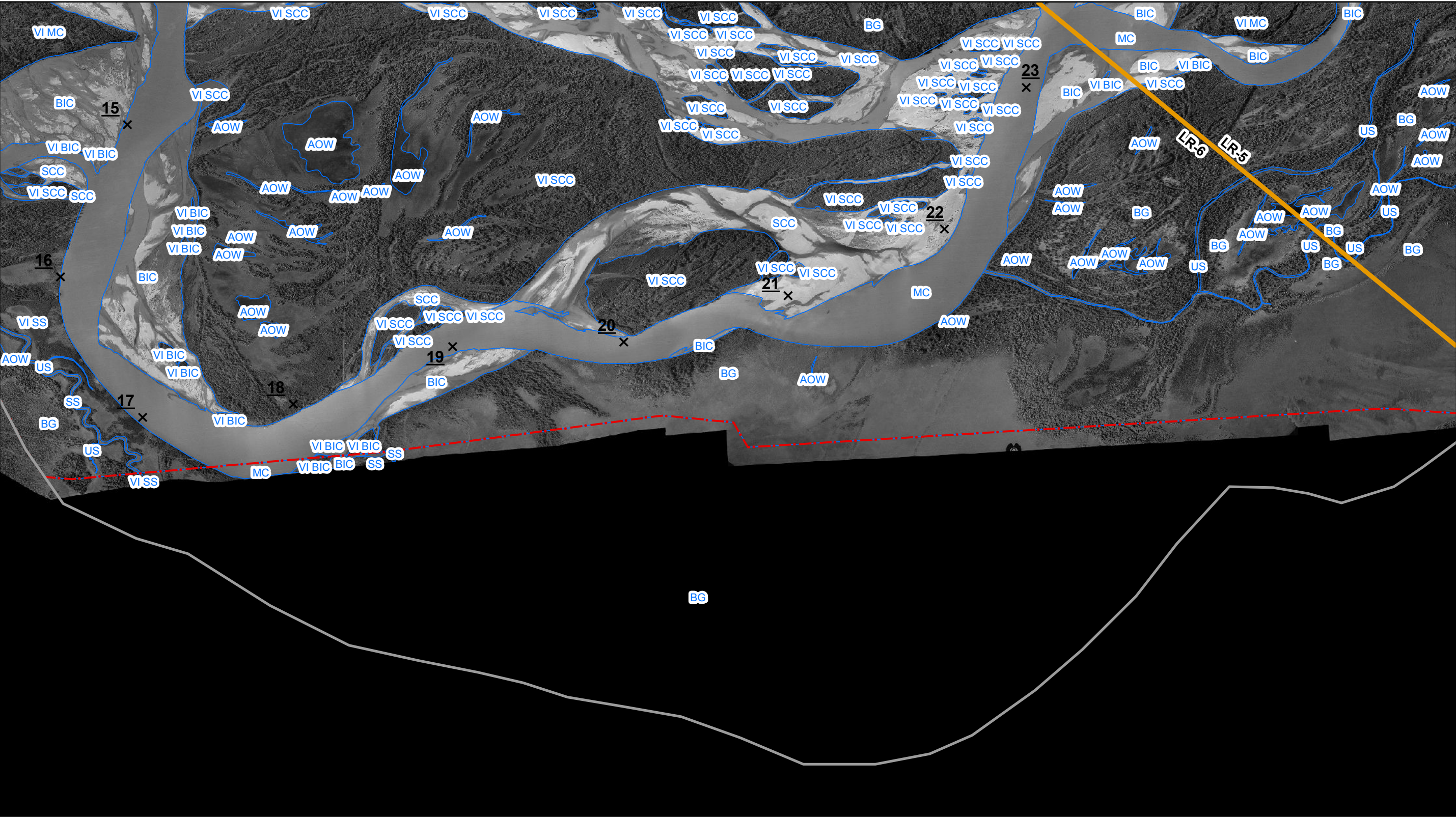


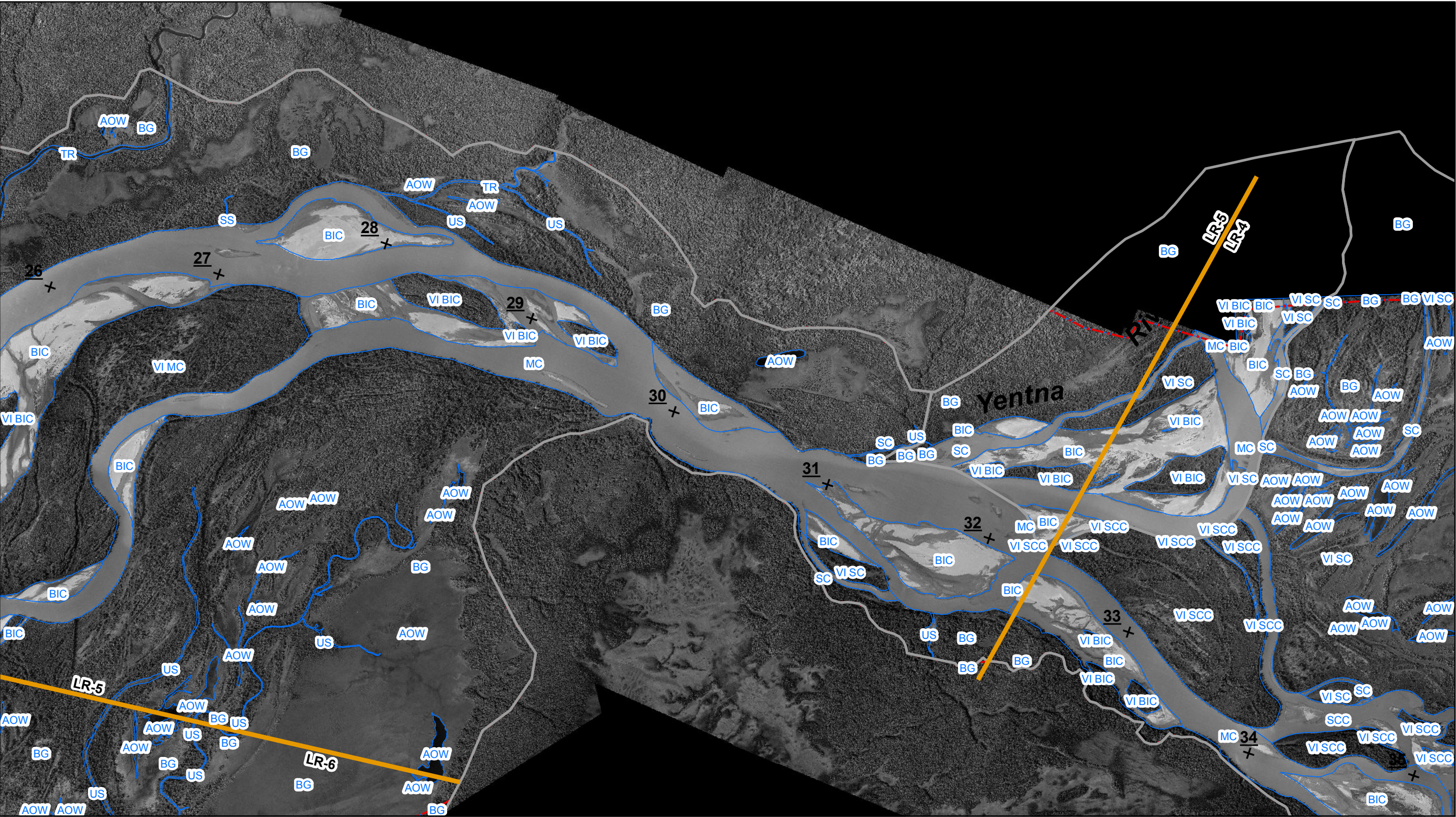
Projection: NAD83 State Plane Alaska 4 FIPS 5004 (ft)
Date Created: 8/21/2014
Map Author: Tetra Tech
File: 1980s_LR_GeomFeat_v1_20140312_Cover.mxd

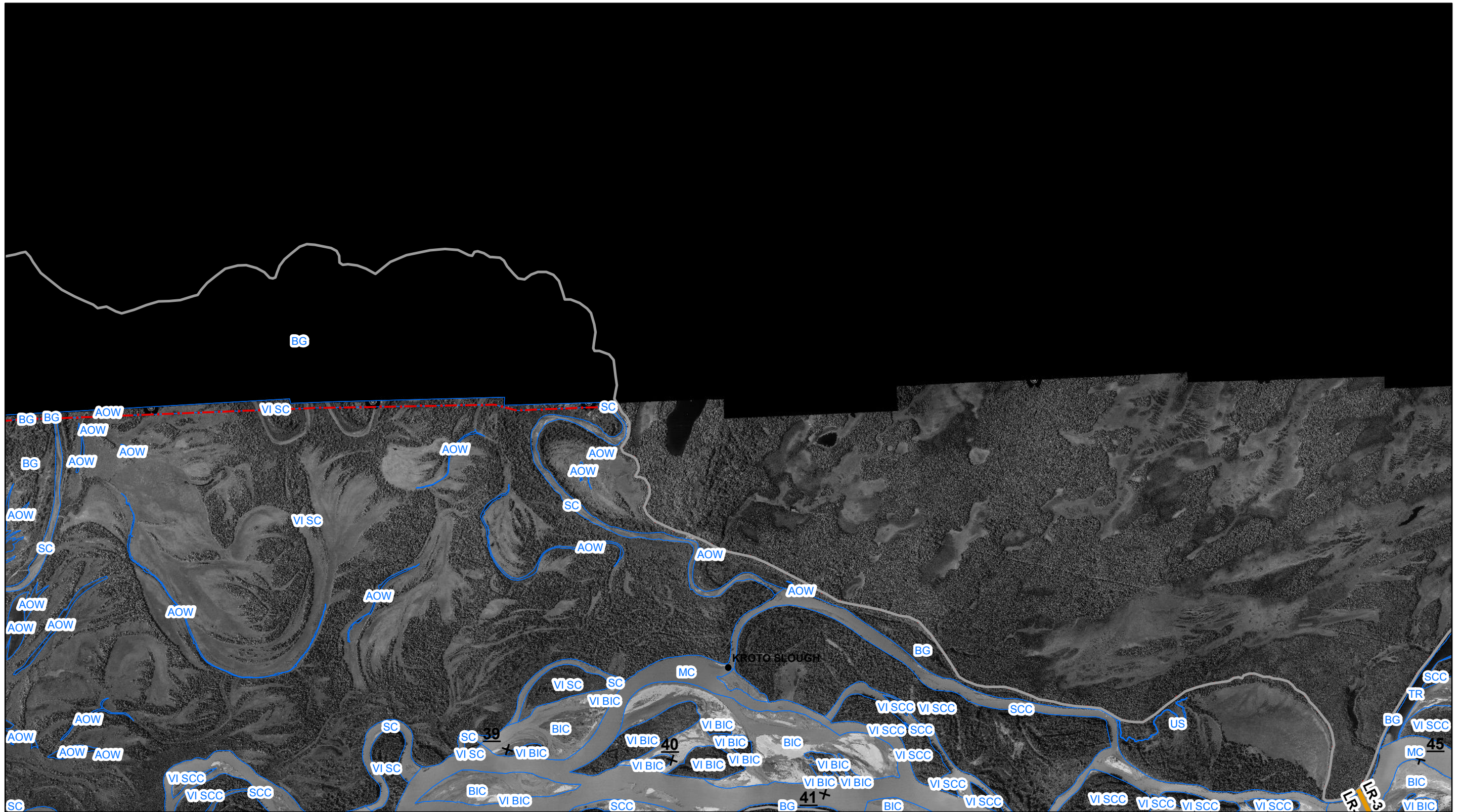


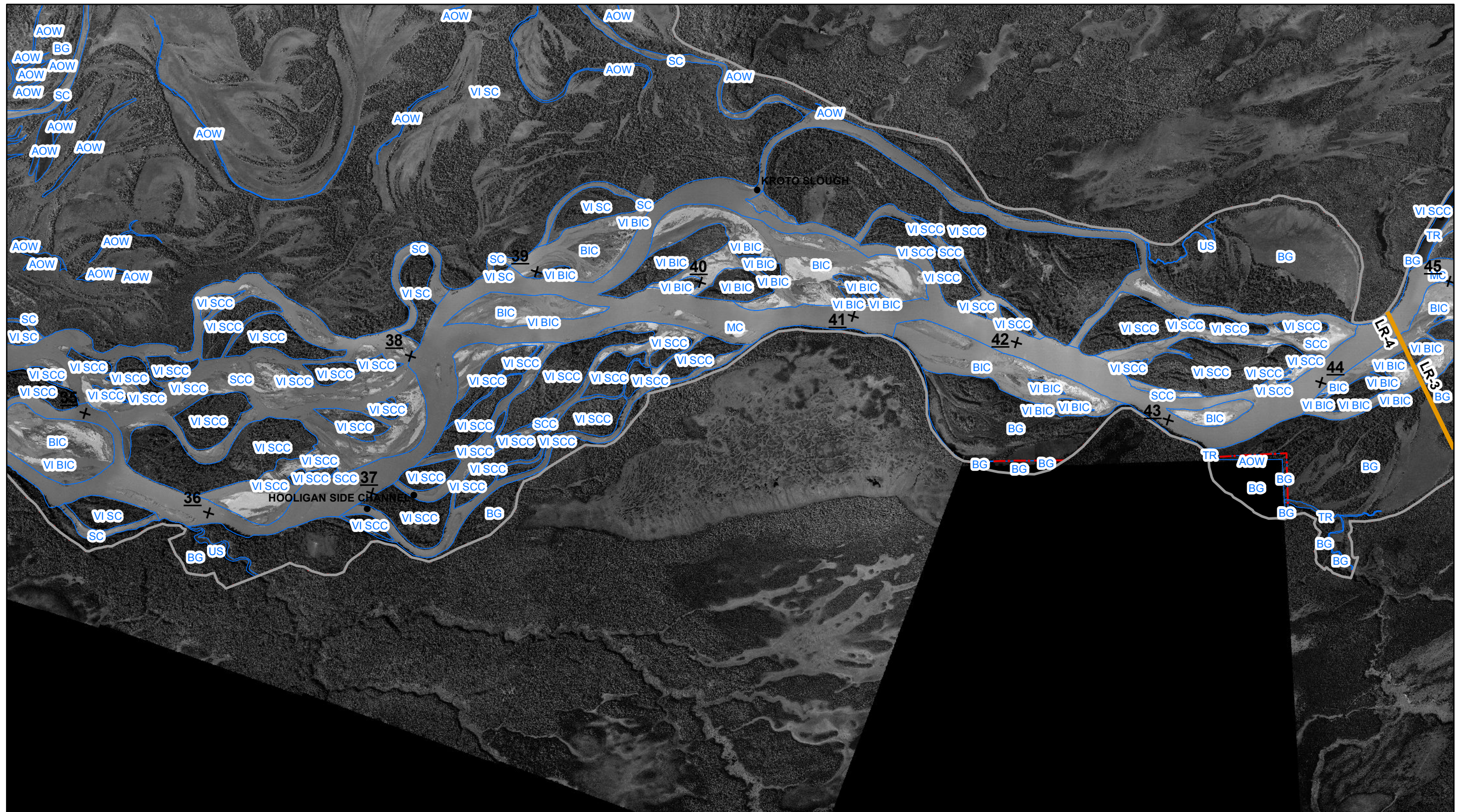












0 3,000 6,000
Feet

1 inch = 3,000 feet

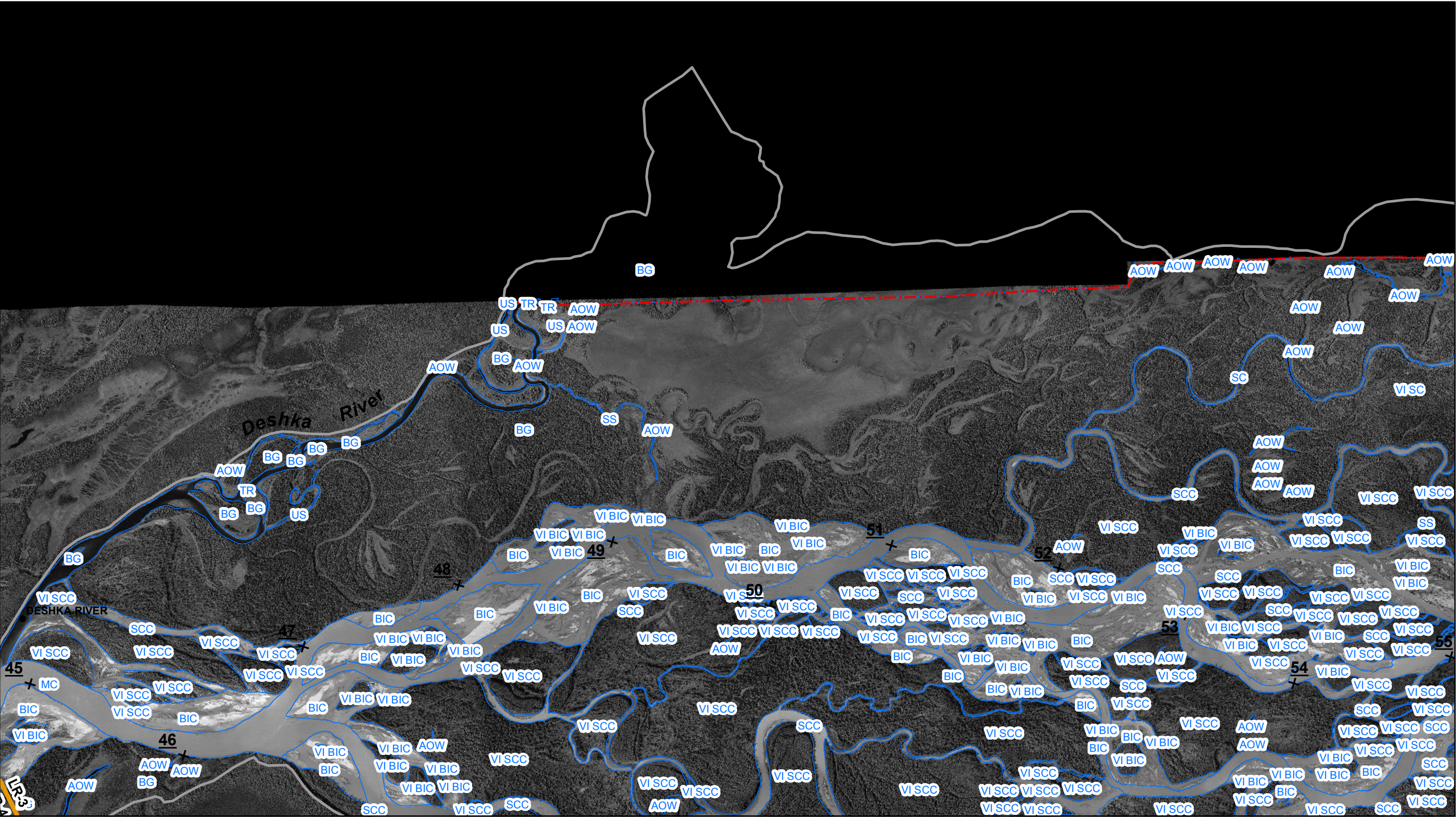
Sheet 7 of 16

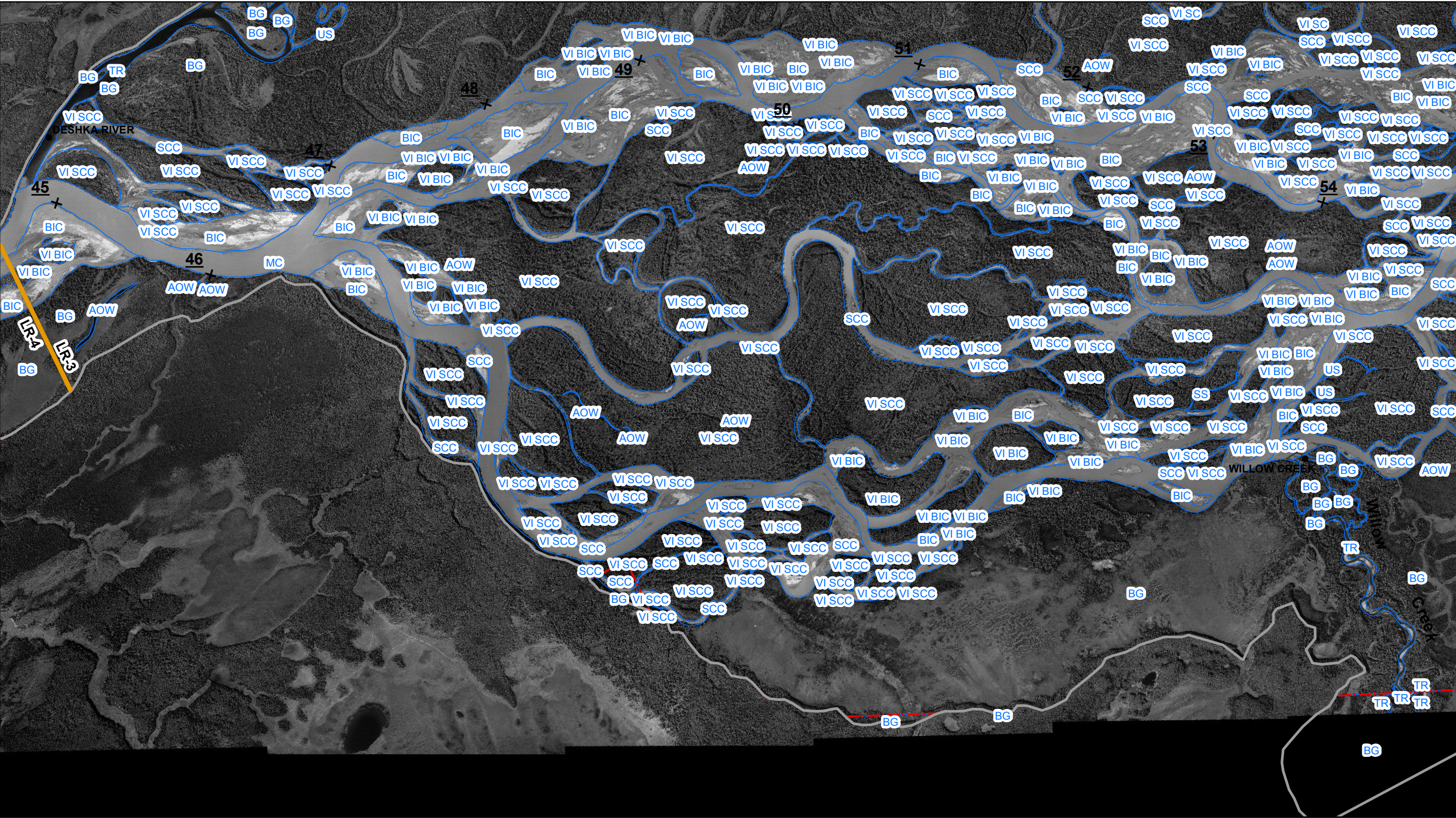
LOWER SUSITNA RIVER SEGMENT 1983 GEOMORPHIC FEATURES

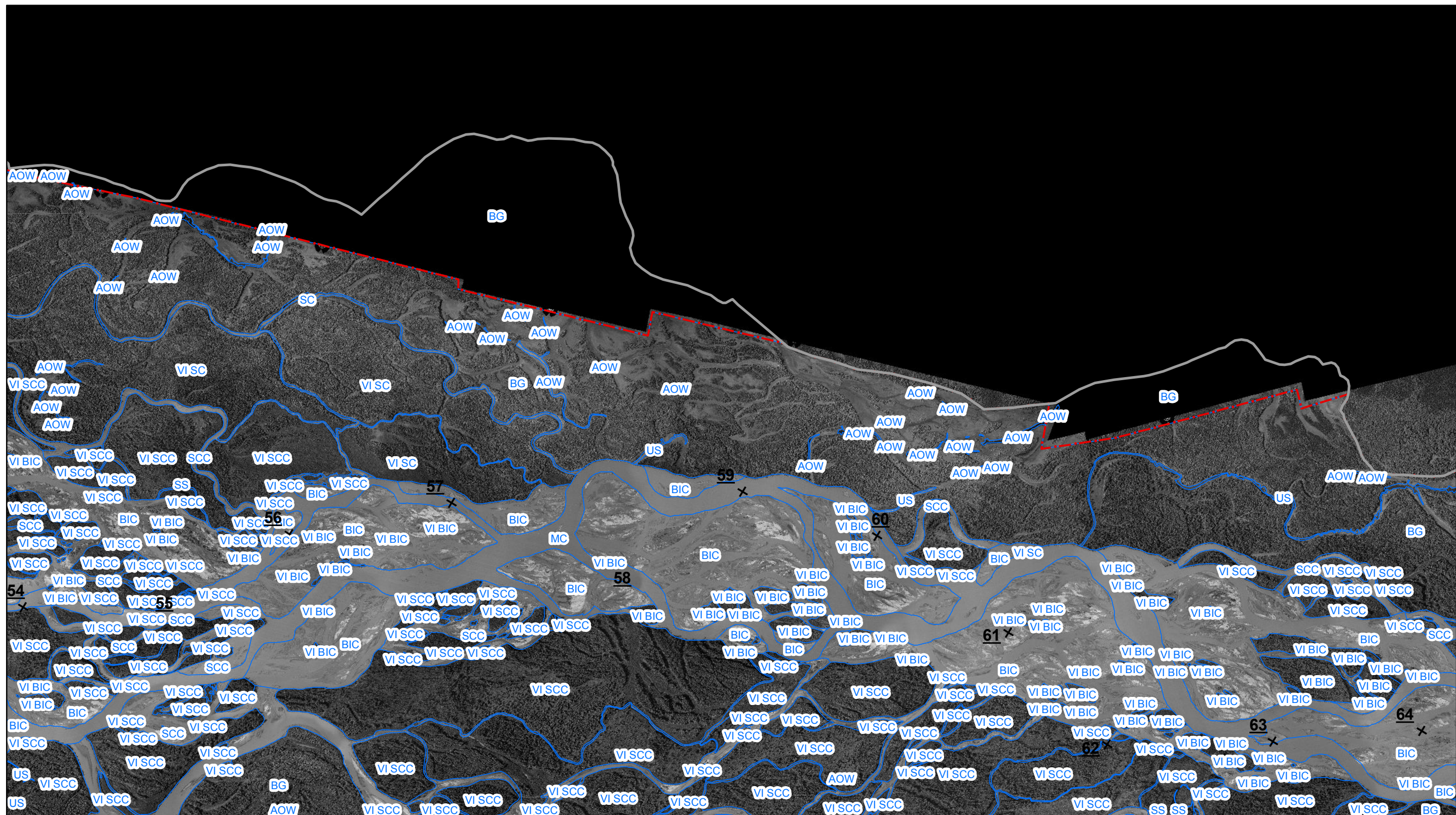
Location: Imagery Date, Discharge (Sunshine)
PRM 0 - 102.4: 09/06/1983, 36,600 cfs



See index page for legend and additional data information.







0 3,000 6,000 Feet

1 inch = 3,000 feet

Sheet 10 of 16

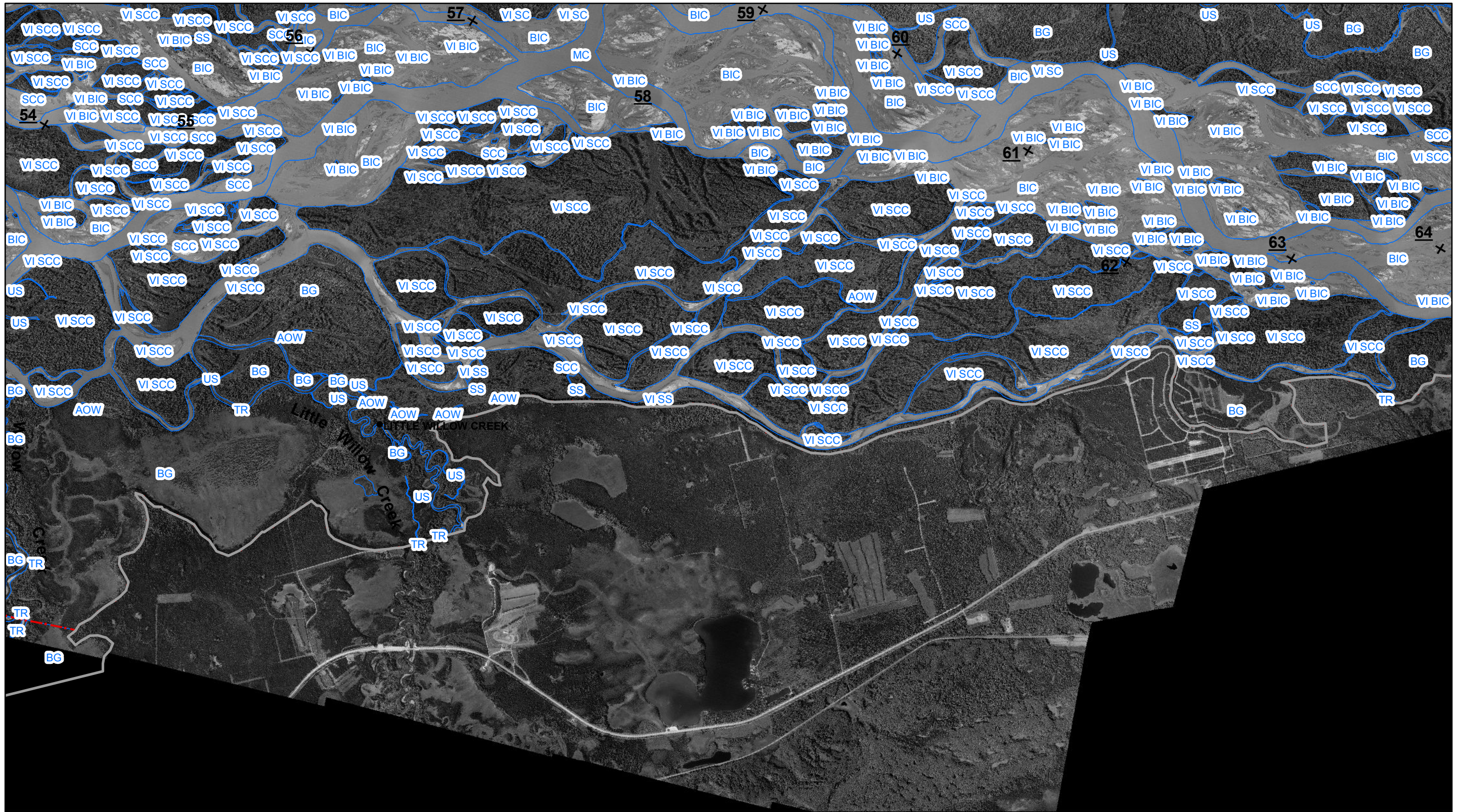
**LOWER SUSITNA RIVER SEGMENT
1983 GEOMORPHIC FEATURES**

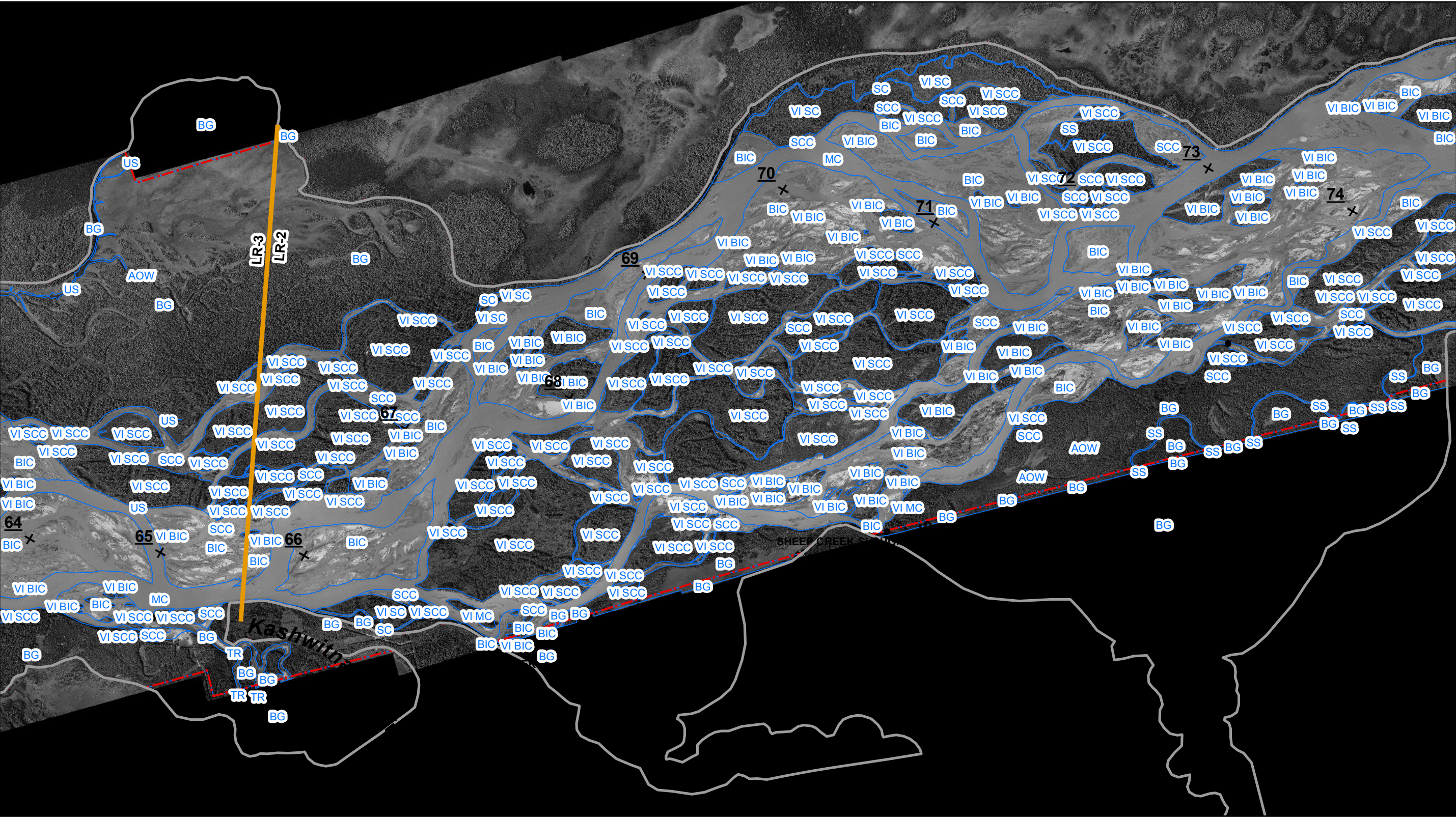
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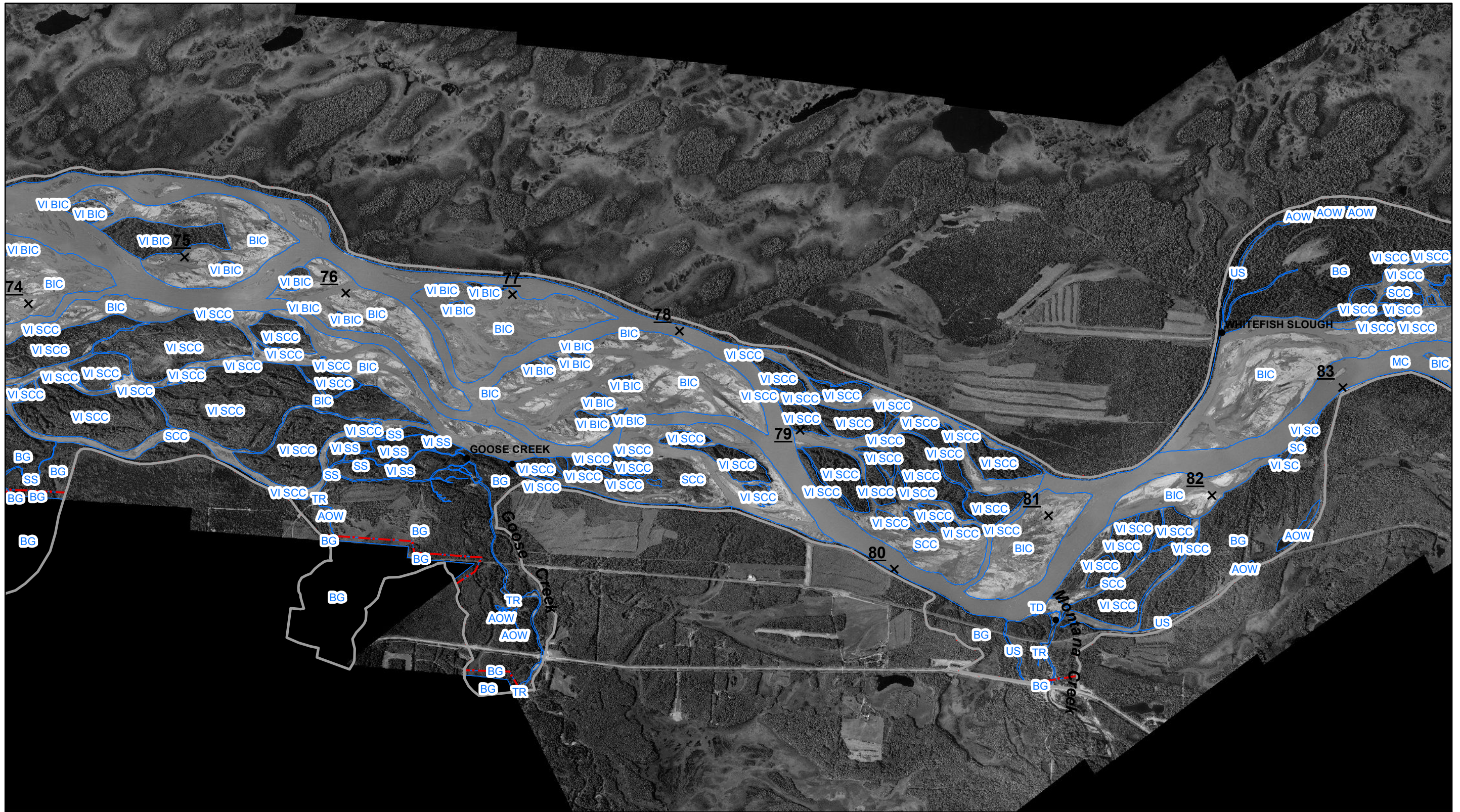
Imagery Date, Discharge (Sunshine)
09/06/1983, 36,600 cfs

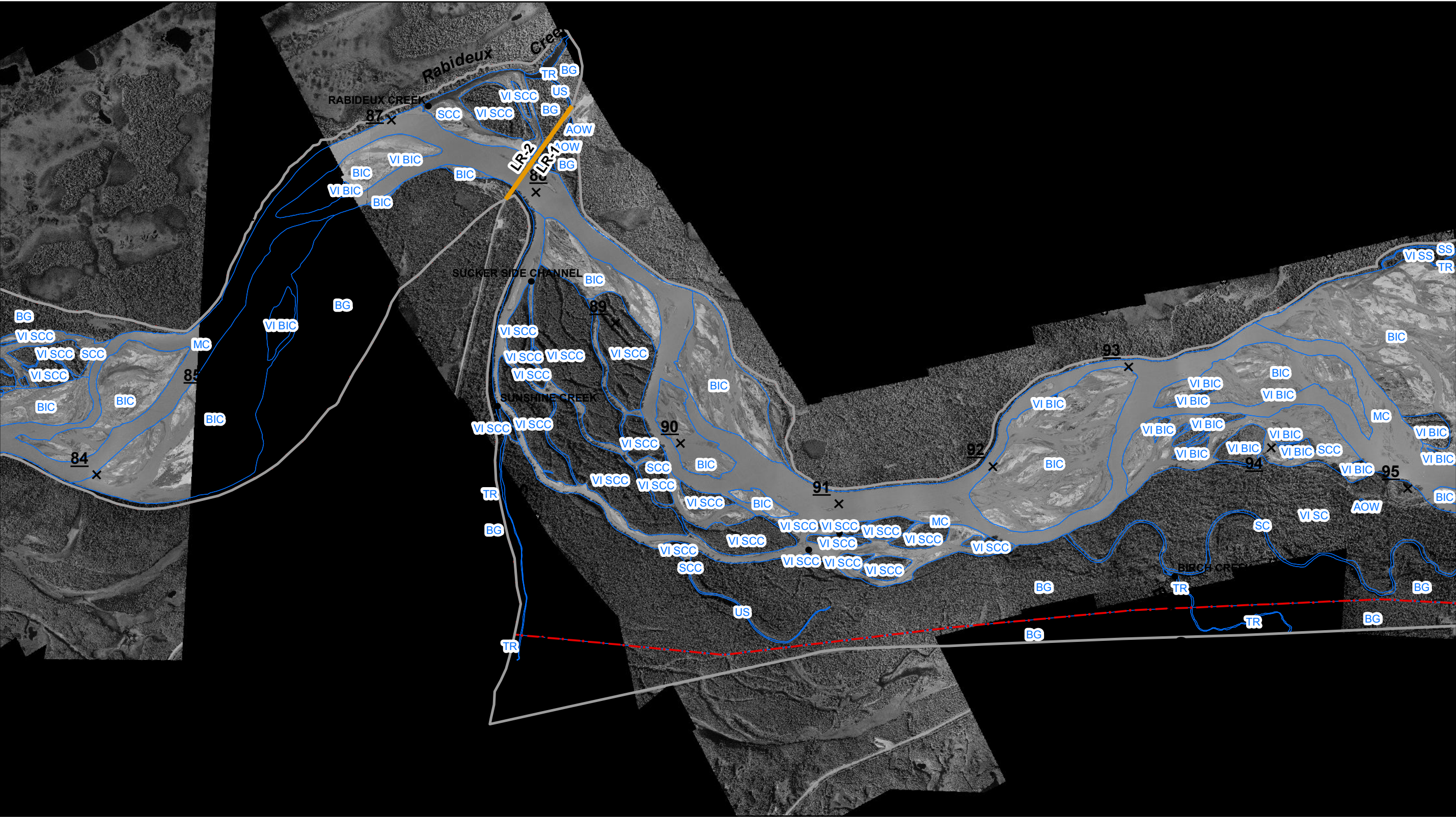


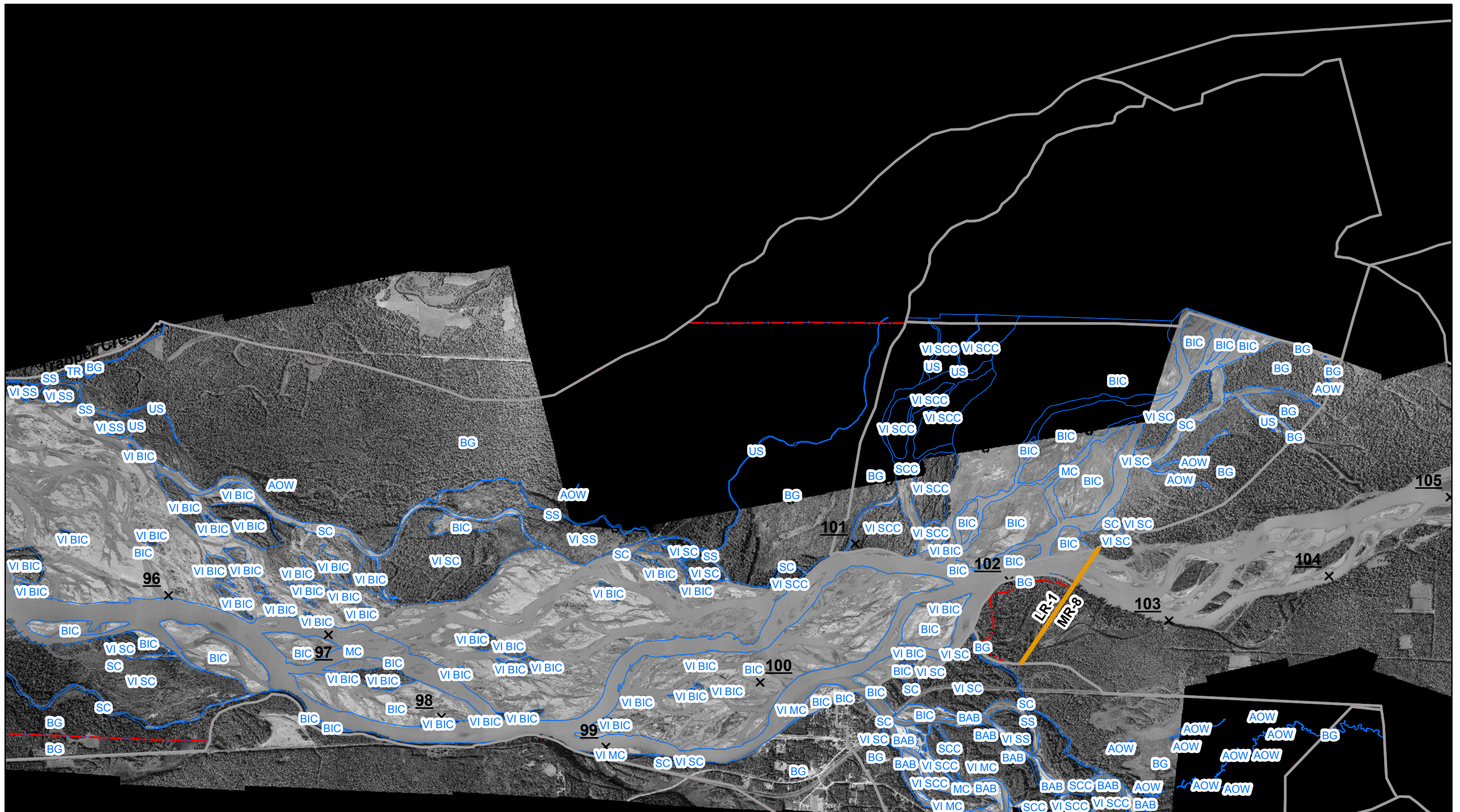
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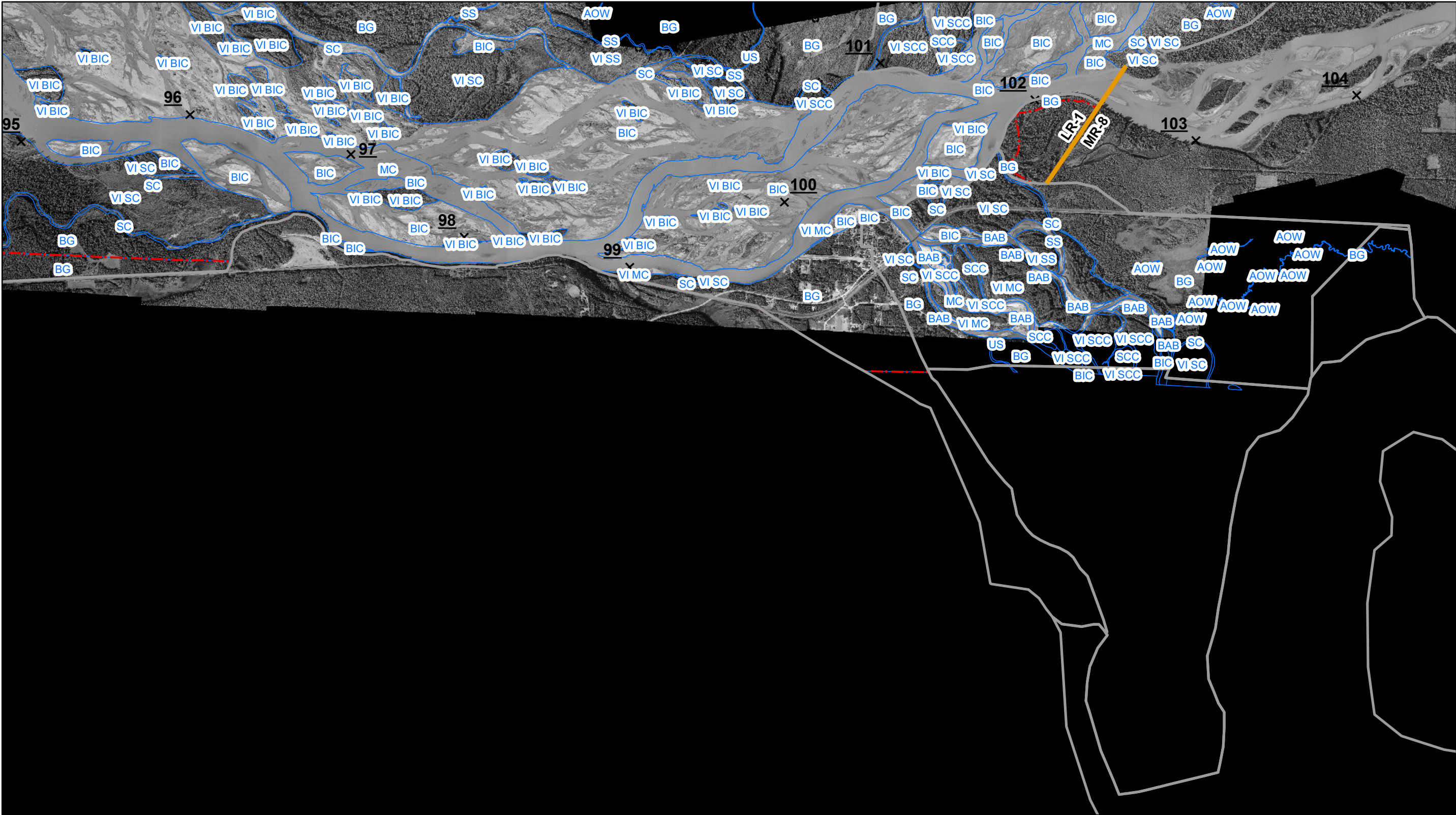












APPENDIX H. 2012 LOWER SUSITNA RIVER SEGMENT GEOMORPHIC FEATURES

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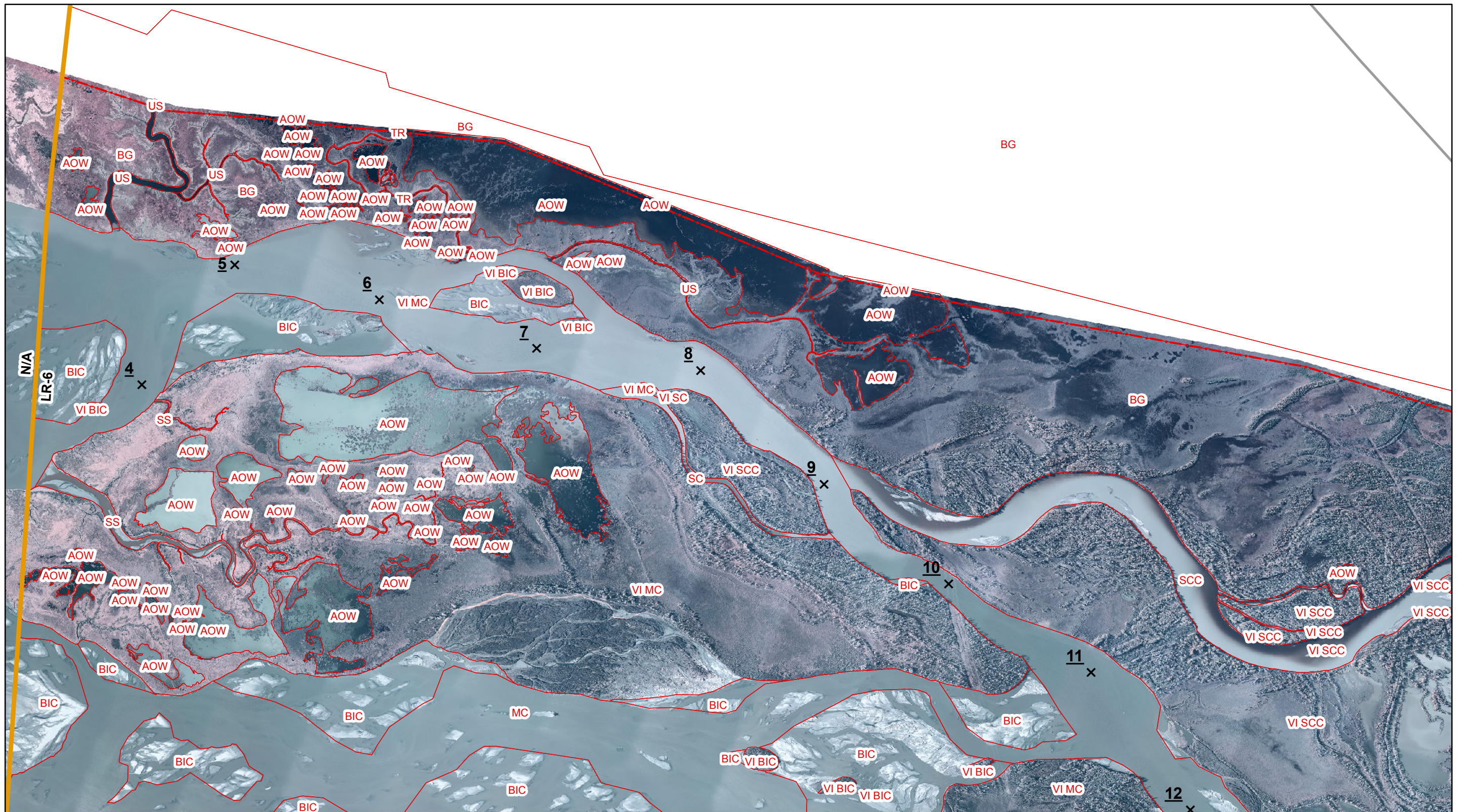
Alaska Energy Authority

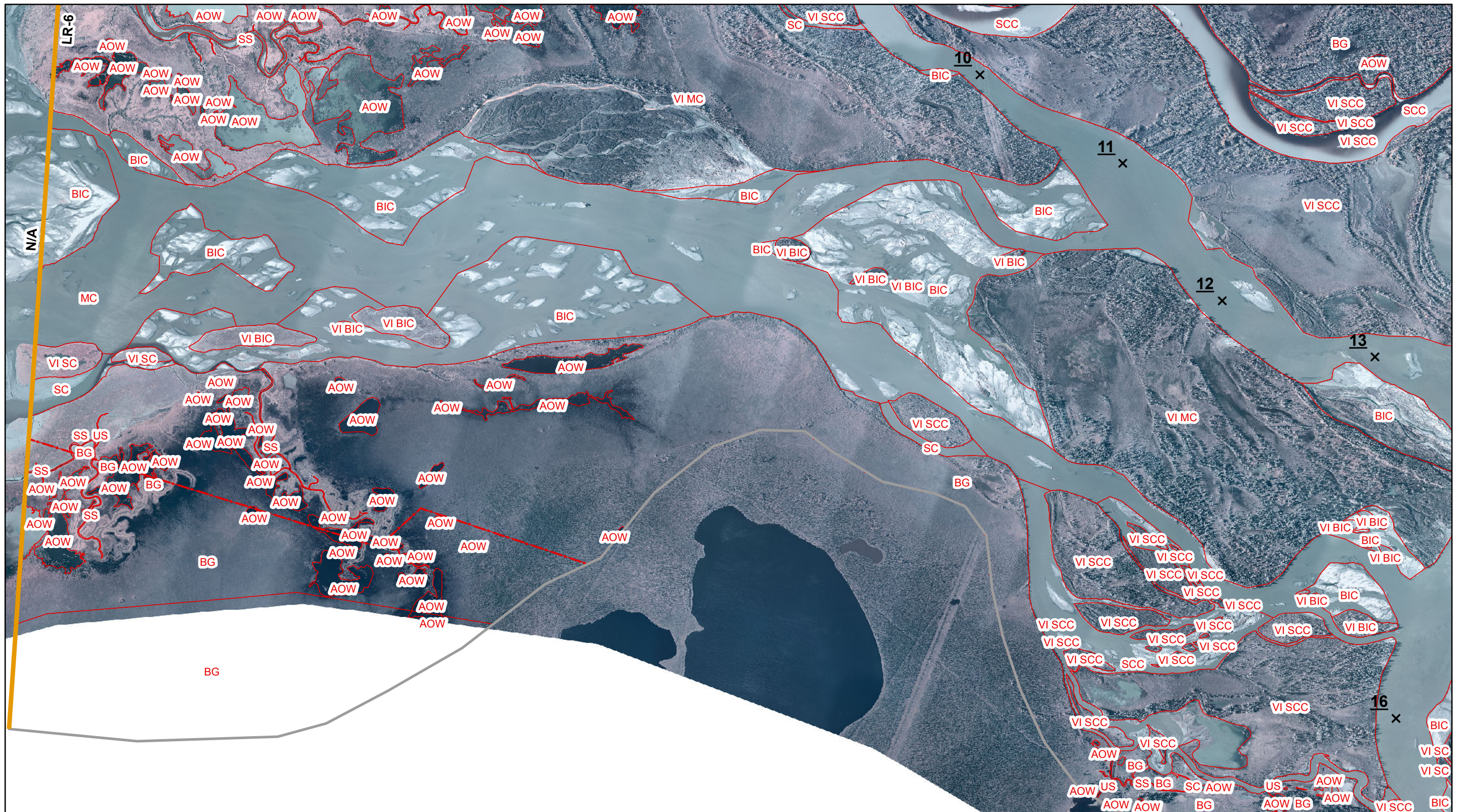


Prepared by

Tetra Tech Inc.

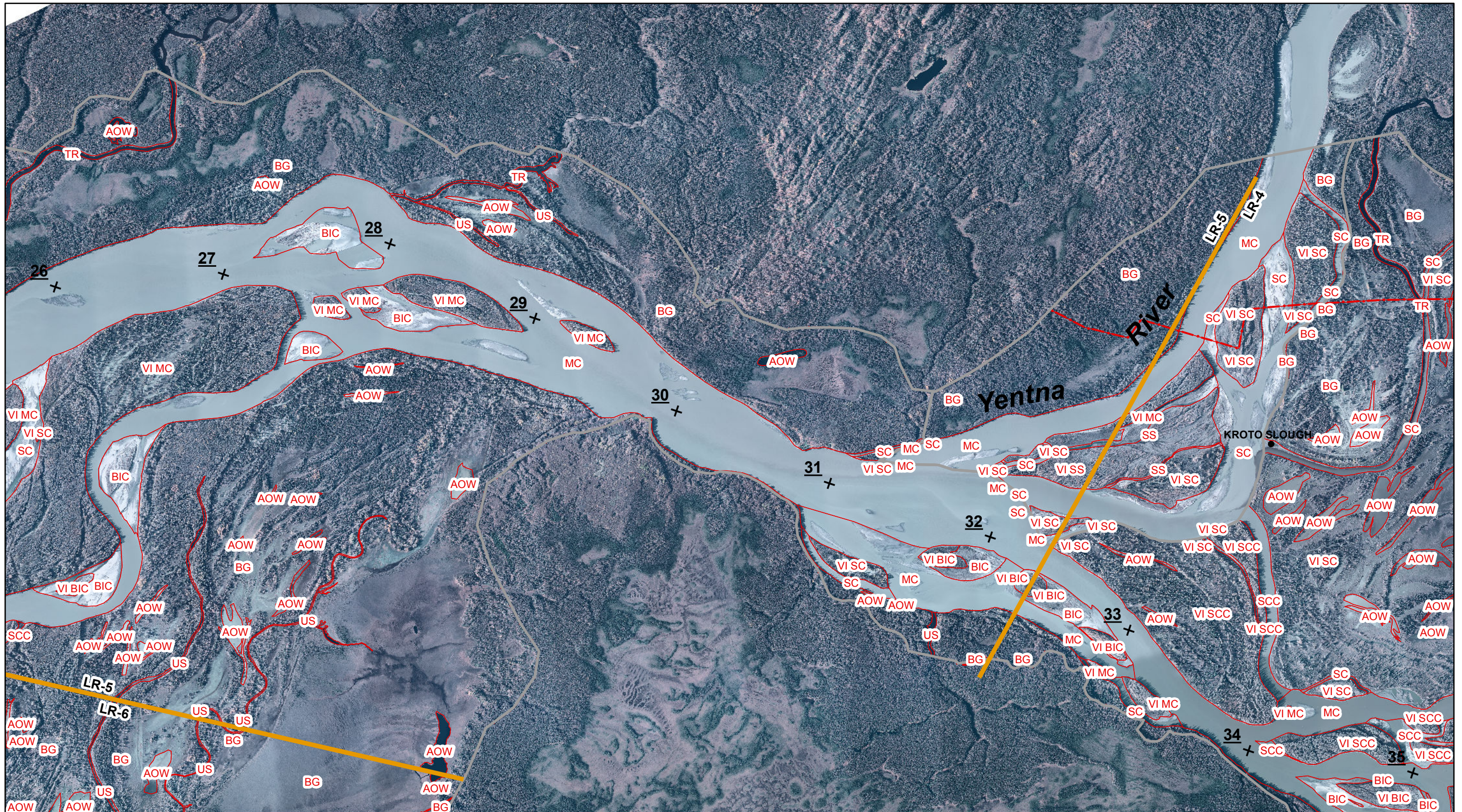
September 2014





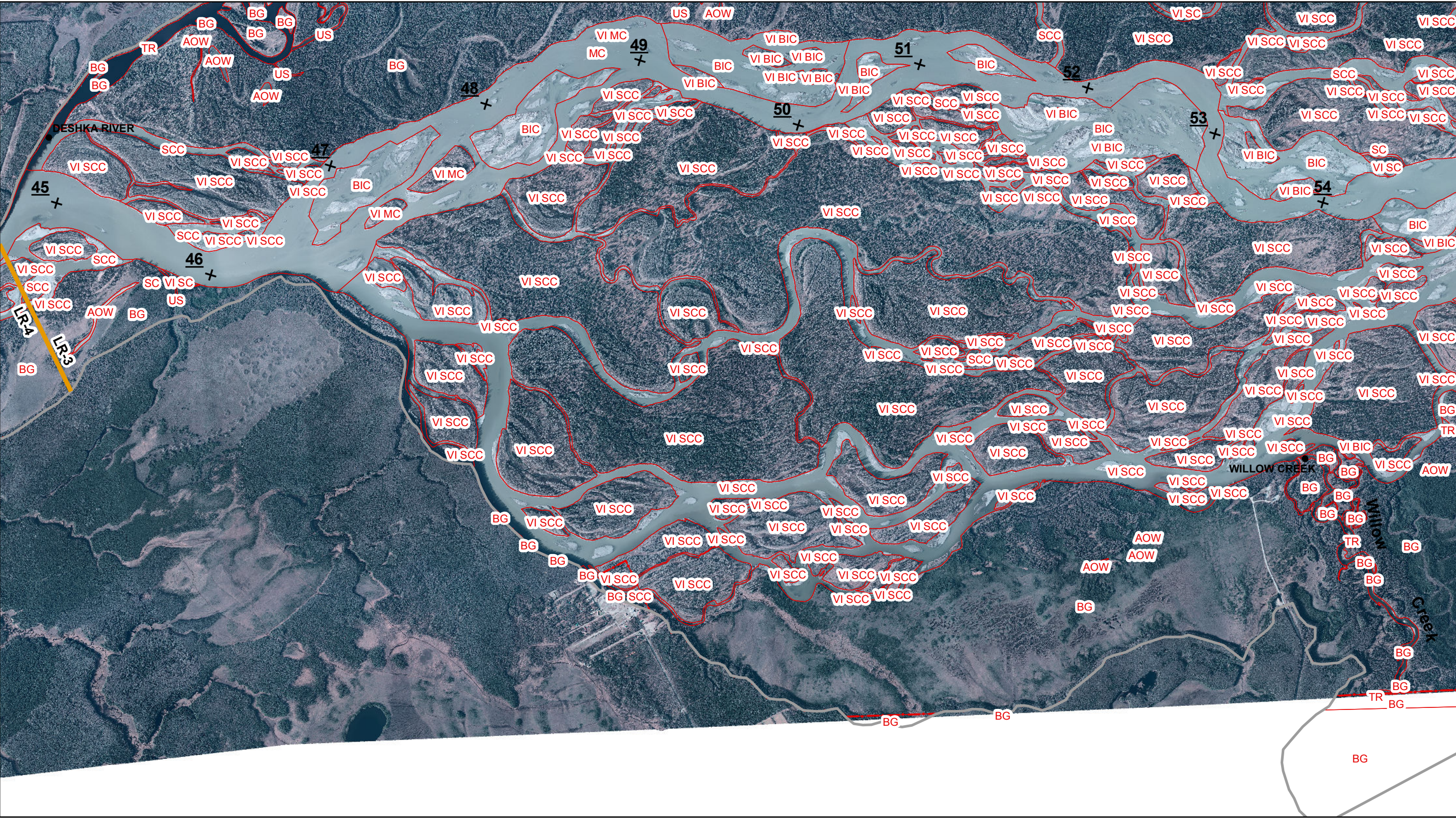


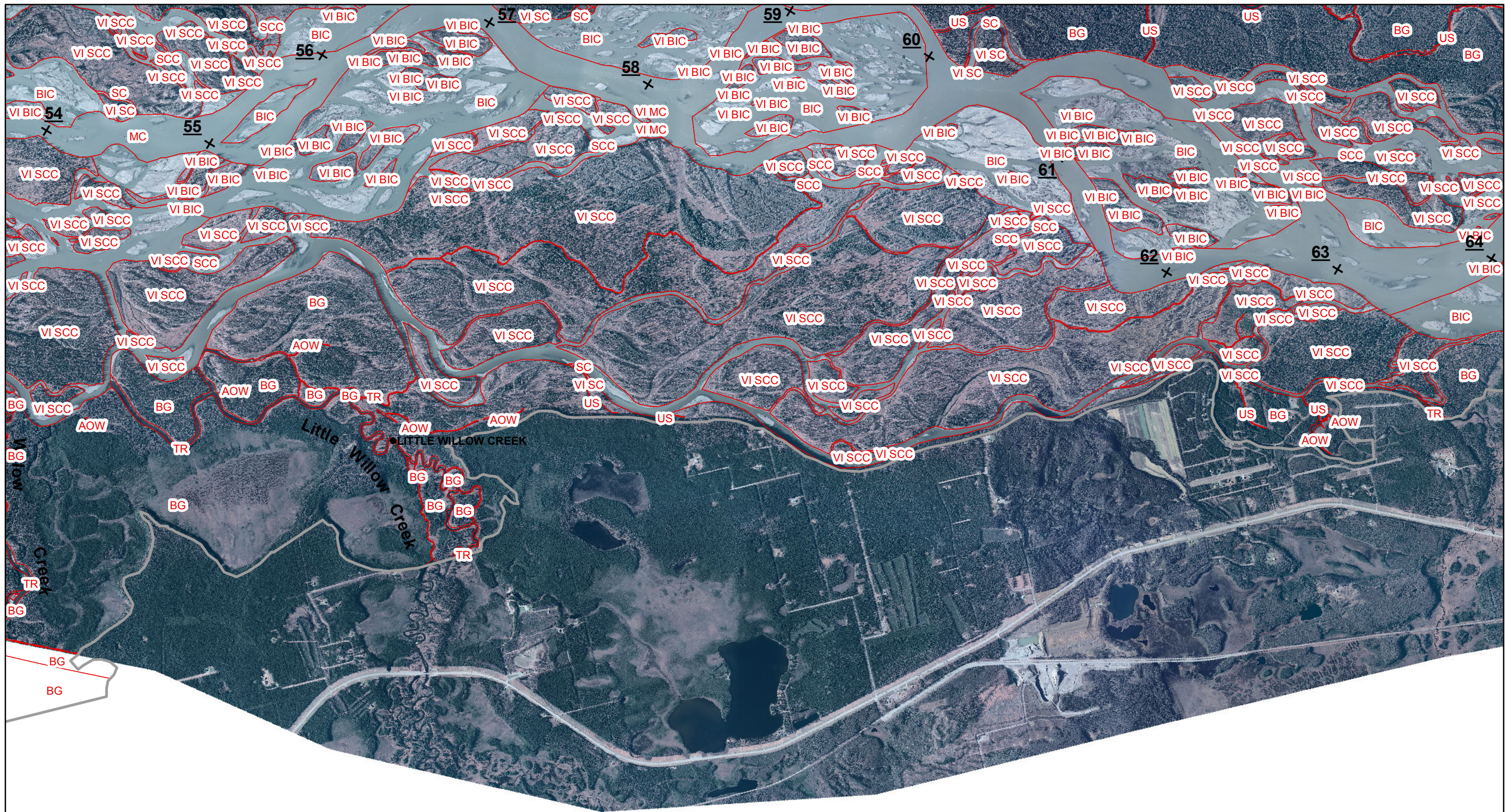


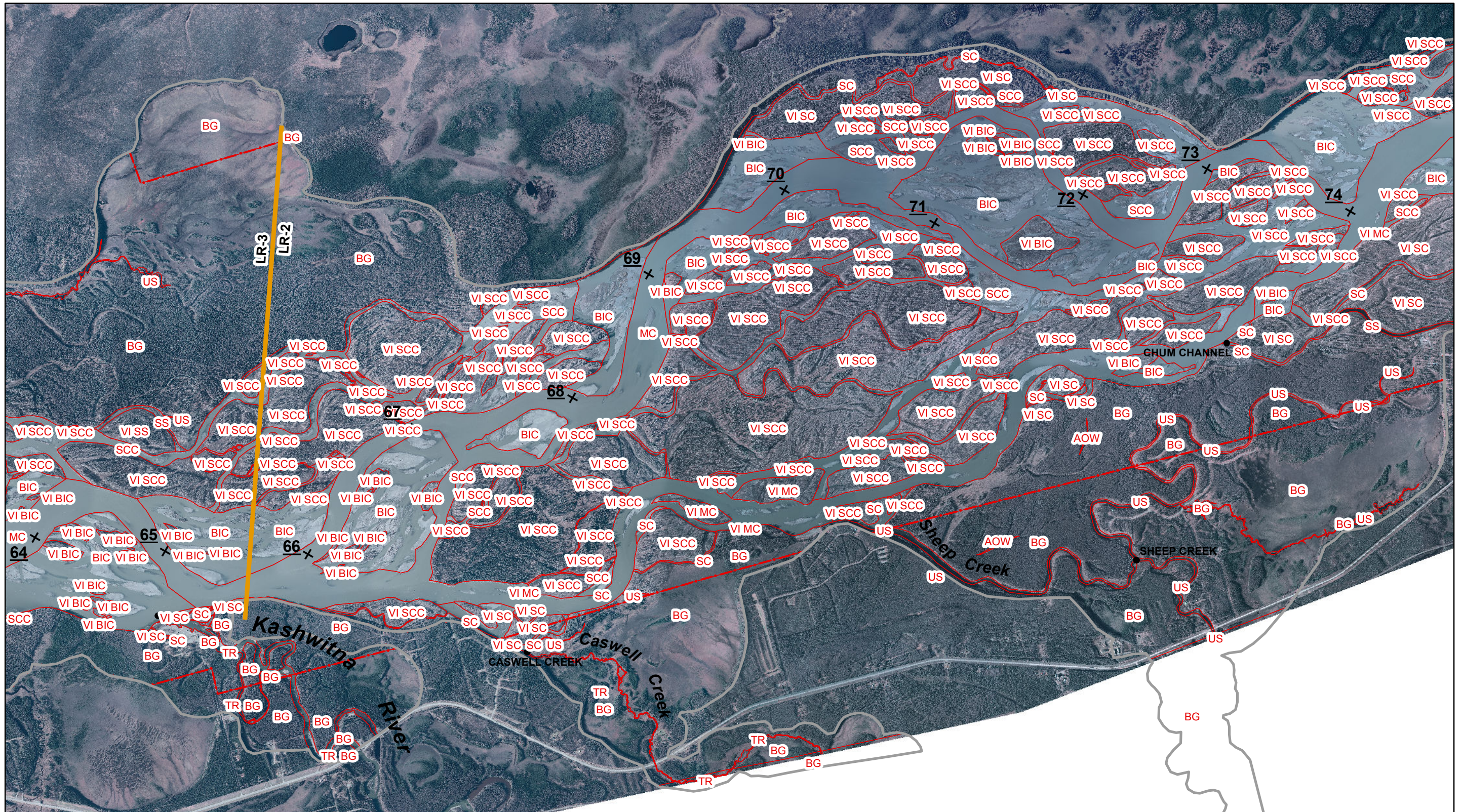












0 3,000 6,000 Feet
1 inch = 3,000 feet

See index page for legend and additional data information.

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LOWER SUSITNA RIVER SEGMENT 2012 GEOMORPHIC FEATURES

Location:	Imagery Date:	Discharge (Sunshine)
PRM 0 - 22.5, 33.5 - 69:	10/10/2012,	53,700 cfs
PRM 22.5 - 33.5, 69 - 78:	09/30/2012,	46,900 cfs

Location:	Imagery Date:	Discharge (Sunshine)
PRM 78 - 102:	09/10/2012,	38,100 cfs



