

Susitna-Watana Hydroelectric Project Document

ARLIS Uniform Cover Page

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Notes: Appendix D along with Appendix C (in a different volume and PDF file) were replaced in full by Attachment L to: Filing of Initial Study Plan meetings transcripts and additional information in response to October 2014 Initial Study Plan meetings. That attachment is titled "Characterization and mapping of aquatic habitats, Study 9.9, revised map book for 2012 remote line mapping" and was issued November 2014. It is numbered SuWa 266.		

All reports in the Susitna-Watana Hydroelectric Project Document series include an ARLIS-produced cover page and an ARLIS-assigned number for uniformity and citability. All reports are posted online at <http://www.arlis.org/resources/susitna-watana/>



PART A - APPENDIX D: MIDDLE RIVER MAINSTEM SURVEYS, 2013

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

**Characterization and Mapping of Aquatic
Habitats (9.9)**

**Part A - Appendix D
Middle River Mainstem Surveys, 2013**

Initial Study Report

Prepared for

Alaska Energy Authority



SUSITNA-WATANA HYDRO

Clean, reliable energy for the next 100 years.

Prepared by

R2 Resource Consultants, Inc.

June 2014



Legend

- Instream Flow Focus Area (Upper and Lower Extent)
- Project River Mile
- Flow Arrow

Macrohabitat (2013)*

- Main Channel
- Split Main Channel
- Multiple Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

Mesohabitat (2013)*

- Riffle
- Run
- Glide
- Pool
- Backwater
- Clearwater Plume

Other Features

- Dry
- Beaver Complex

** Preliminary Data*

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Map Key

Chukina River
Susitna River
Talkeetna River
Oshetna R

Proposed Watana Dam

= Map Extent

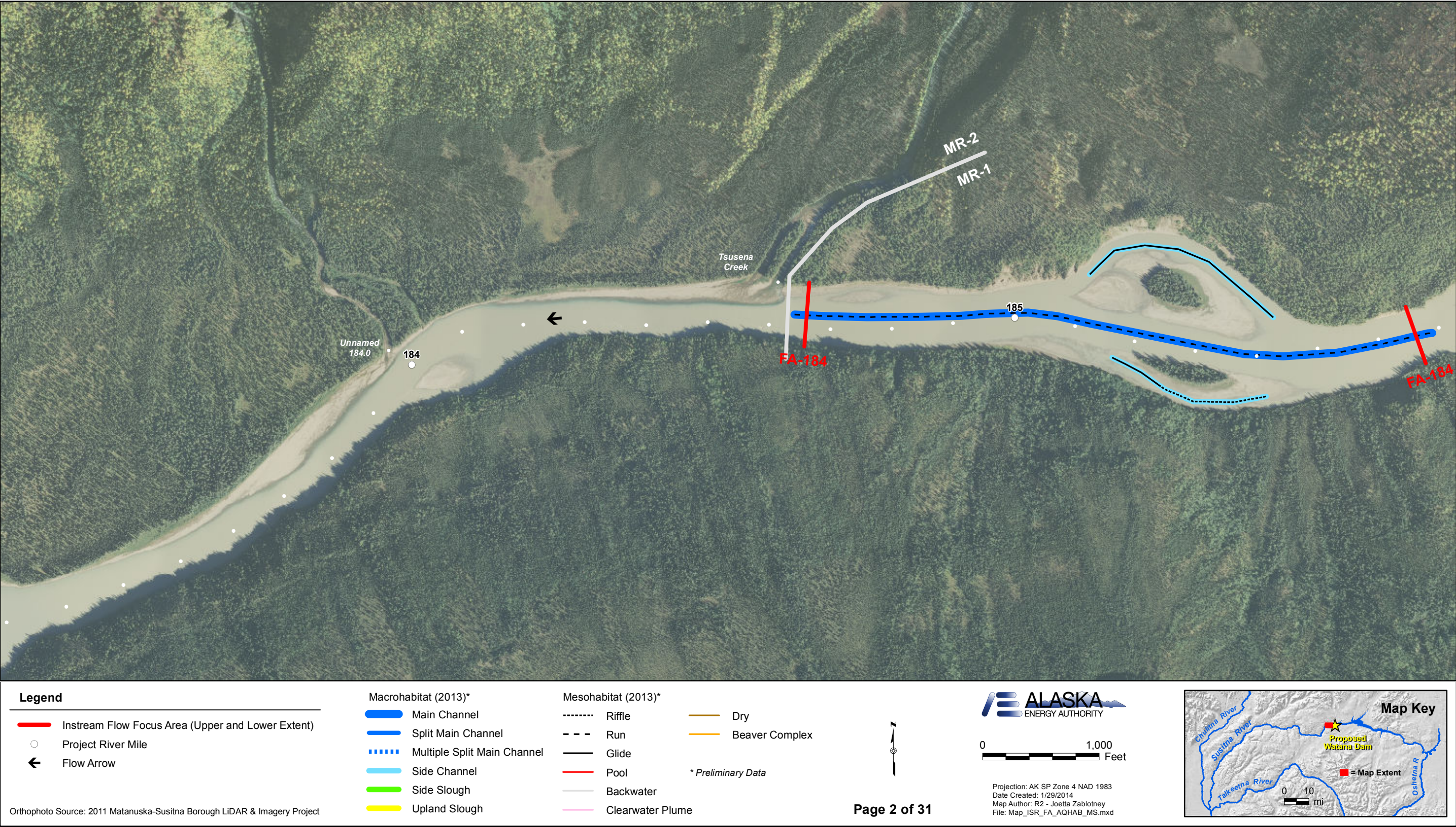
ALASKA ENERGY AUTHORITY

0 1,000 Feet

0 10 mi

Projection: AK SP Zone 4 NAD 1983
Date Created: 1/29/2014
Map Author: R2 - Joetta Zablotney
File: Map_ISR_FA_AQHAB_MS.mxd

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** Preliminary Data*

Scale and Orientation

0 1,000 Feet

0 10 mi

Page 3 of 31

Map Key

Chukina River

Susitna River

Talkeerna River

Oshtetna R

Proposed Watana Dam

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Legend

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○ Project River Mile

← Flow Arrow

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Mesohabitat (2013)*

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— Pool

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Map Key

Chukina River

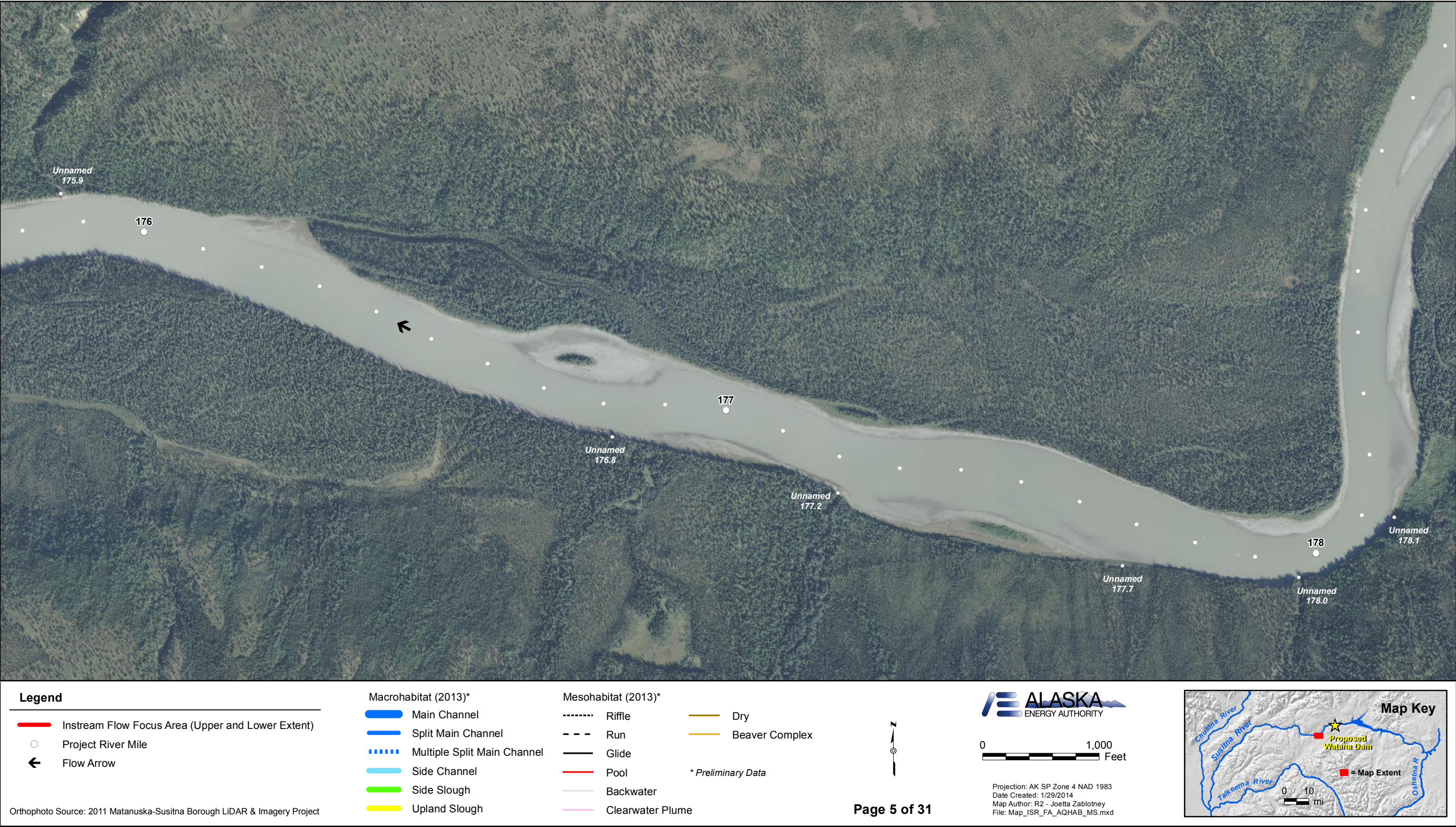
Susitna River

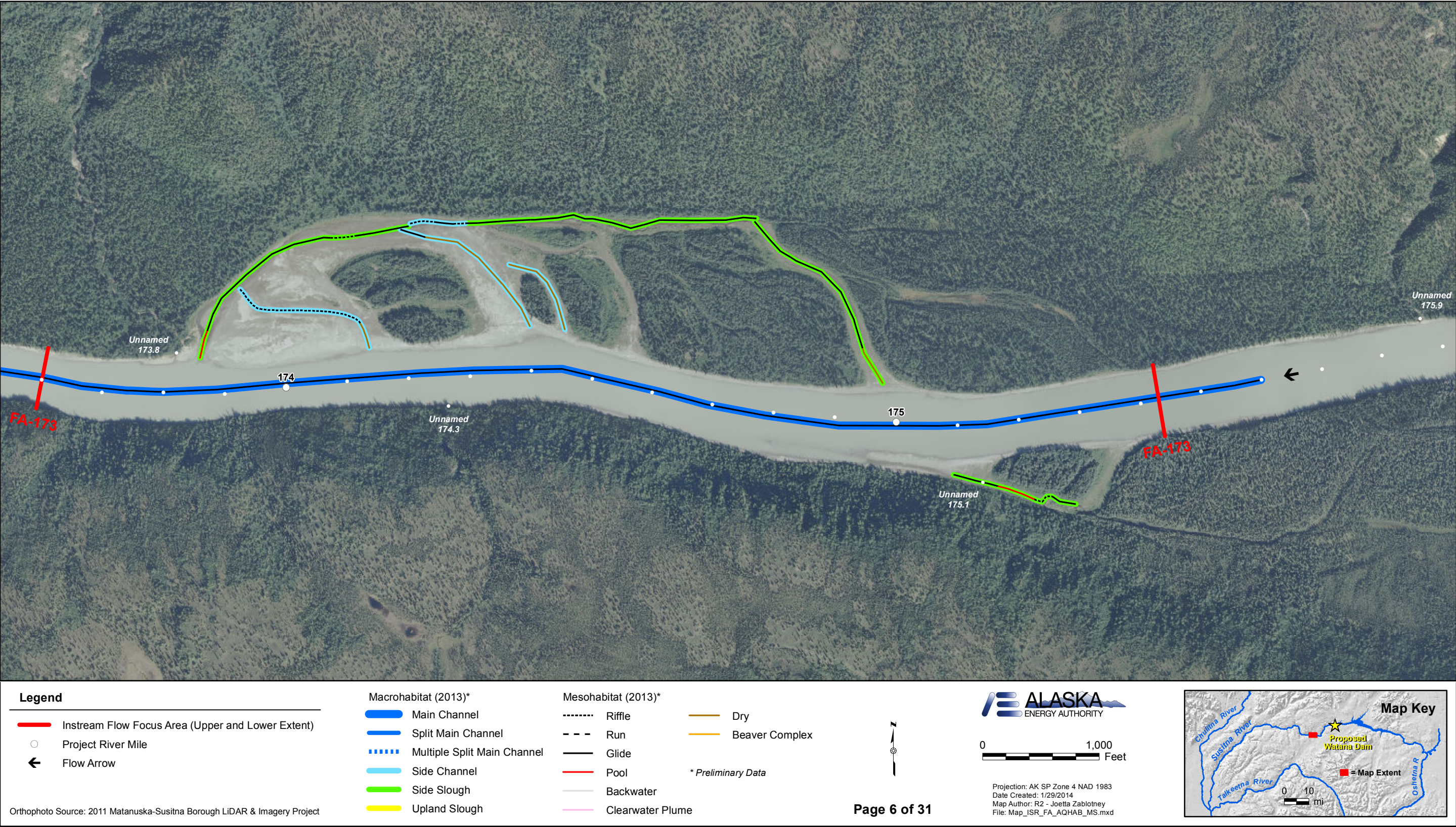
Talkeerna River

Oshetna R

Proposed Watana Dam

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Other Features

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Map Key

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Proposed Watana Dam

= Map Extent



Legend

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○ Project River Mile

← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat (2013)*

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Flow Status

- Dry
- Beaver Complex

** Preliminary Data*

Scale and Orientation

0 1,000 Feet

0 10 mi

Page 8 of 31

Map Key

Chukina River

Susitna River

Talkeerna River

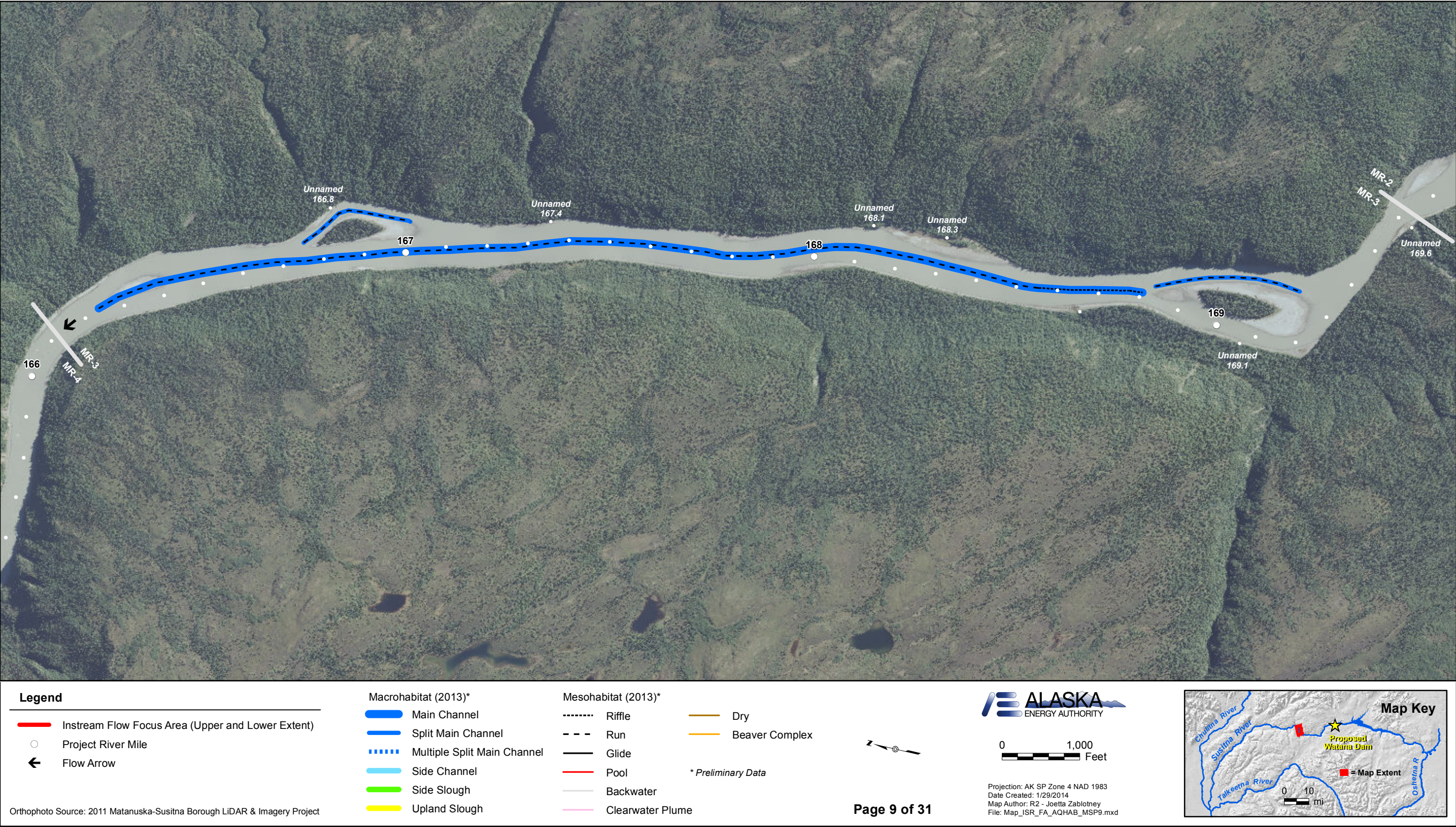
Osheena R

Proposed Watana Dam

= Map Extent

ALASKA ENERGY AUTHORITY

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Legend

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Project River Mile

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Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat (2013)*

Main Channel

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Mesohabitat (2013)*

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Run

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Pool

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Clearwater Plume

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Beaver Complex

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Page 11 of 31

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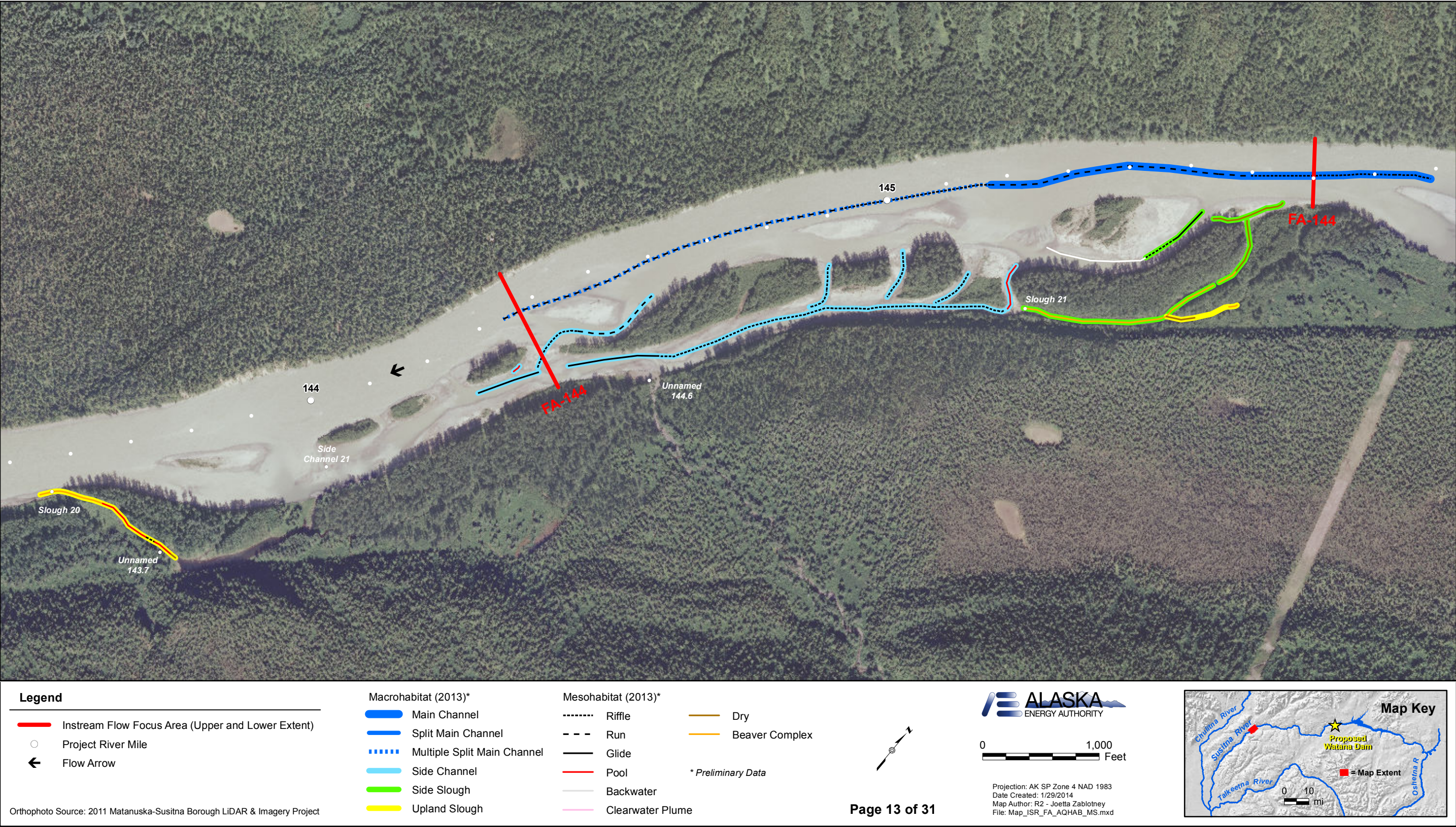
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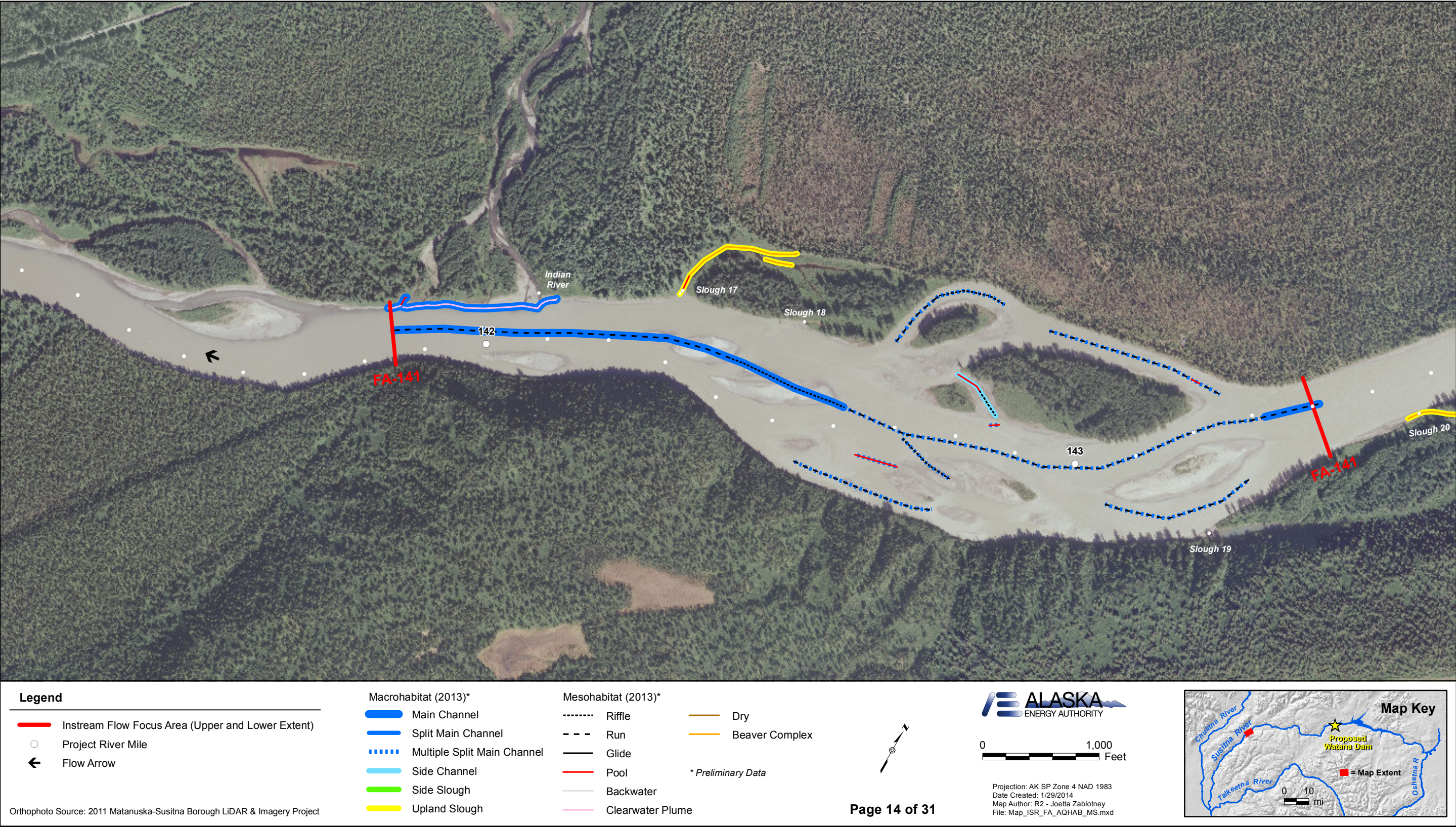
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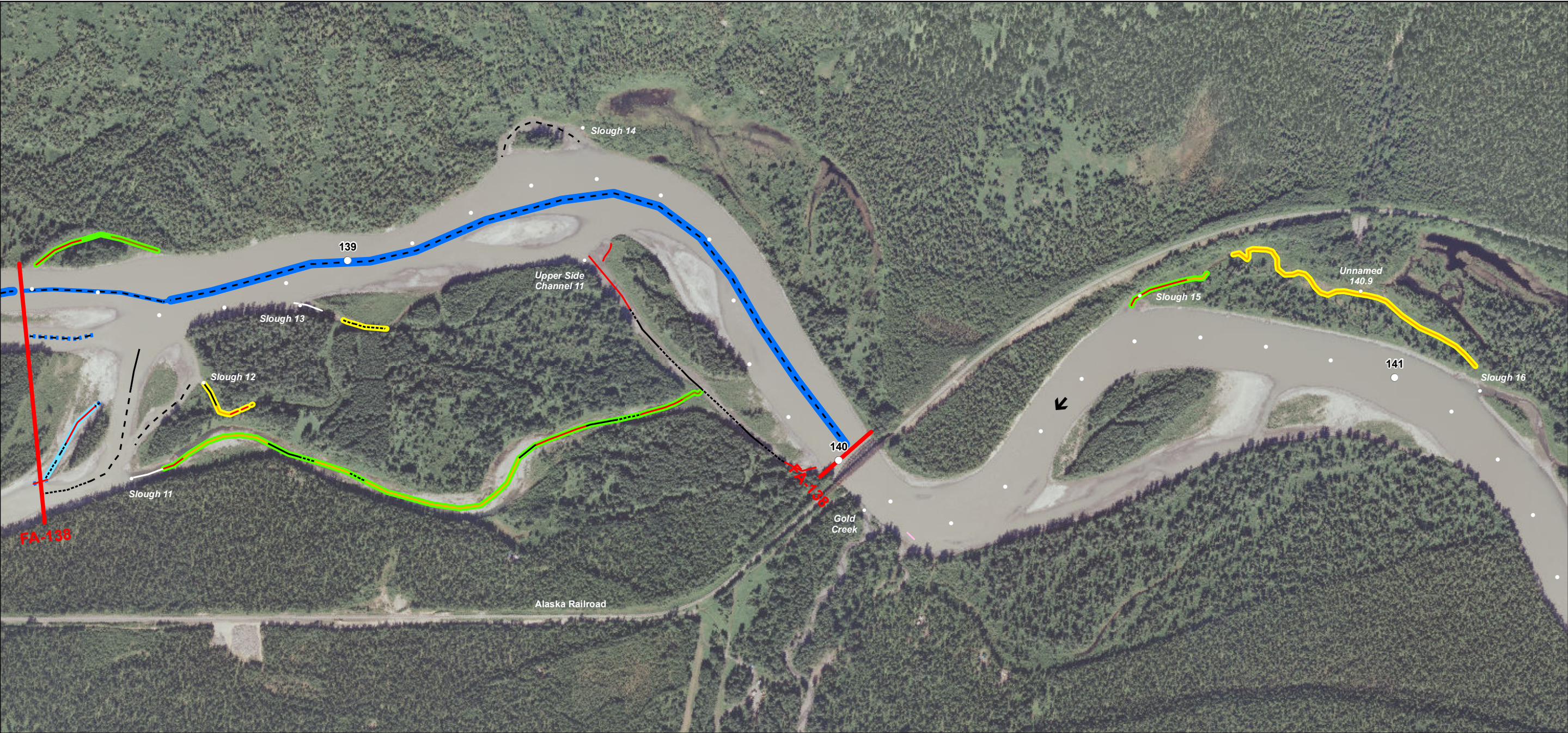
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Scale and Projection

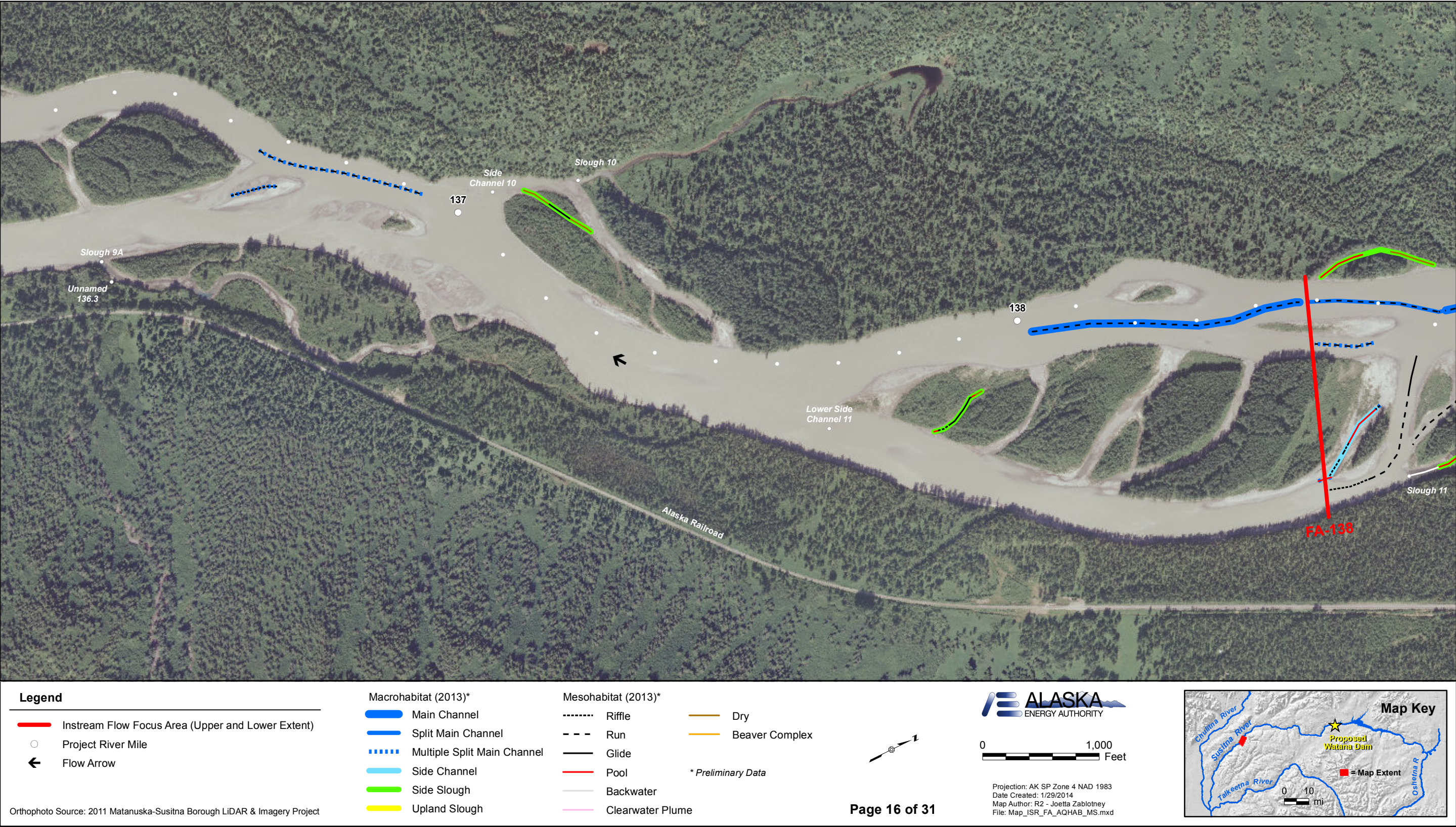
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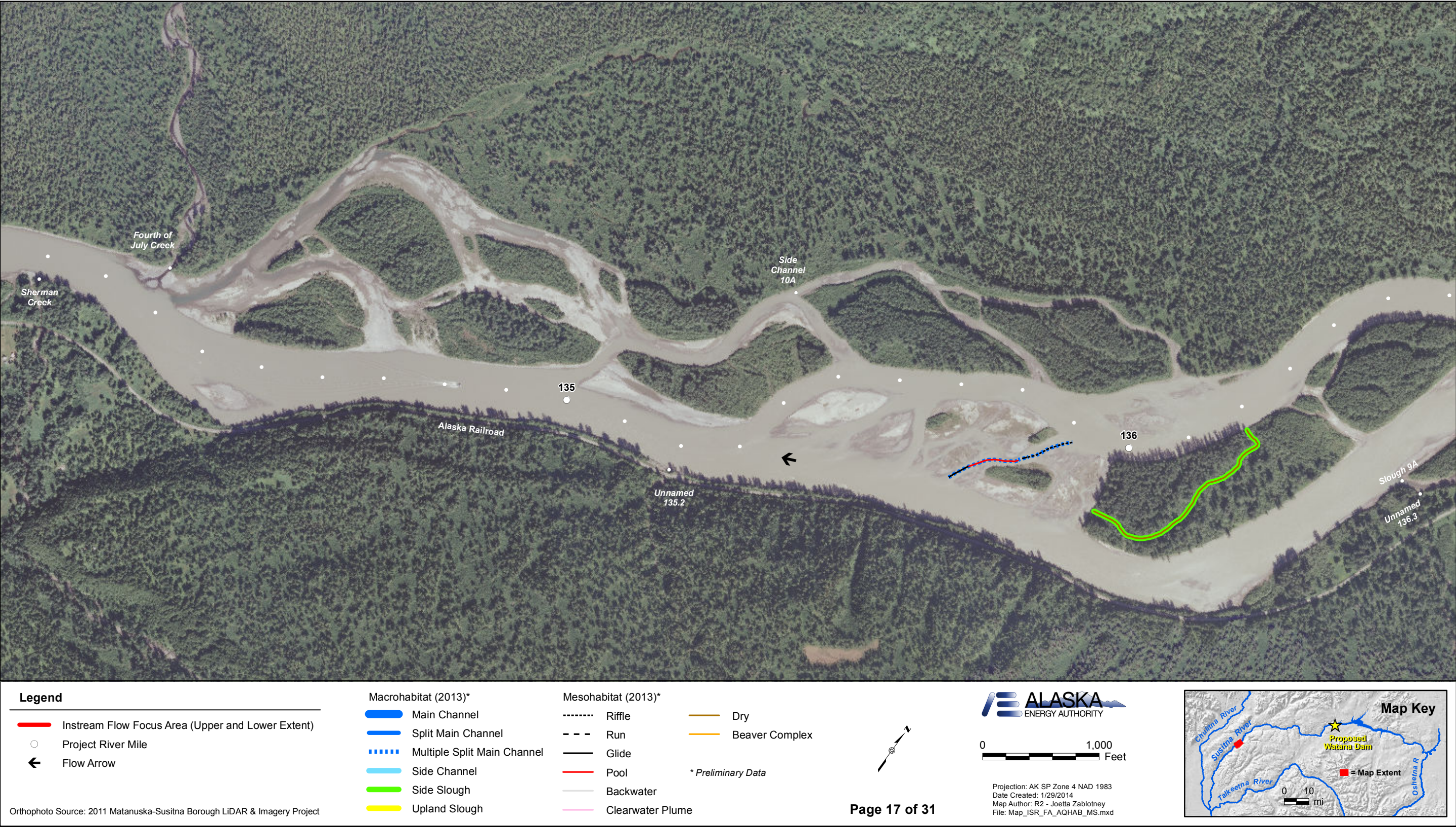
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Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project







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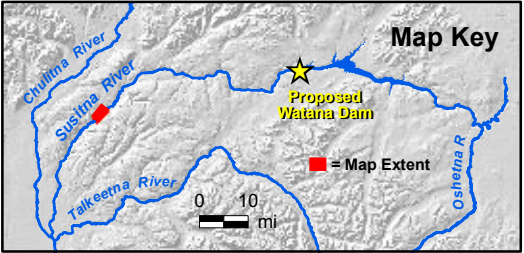
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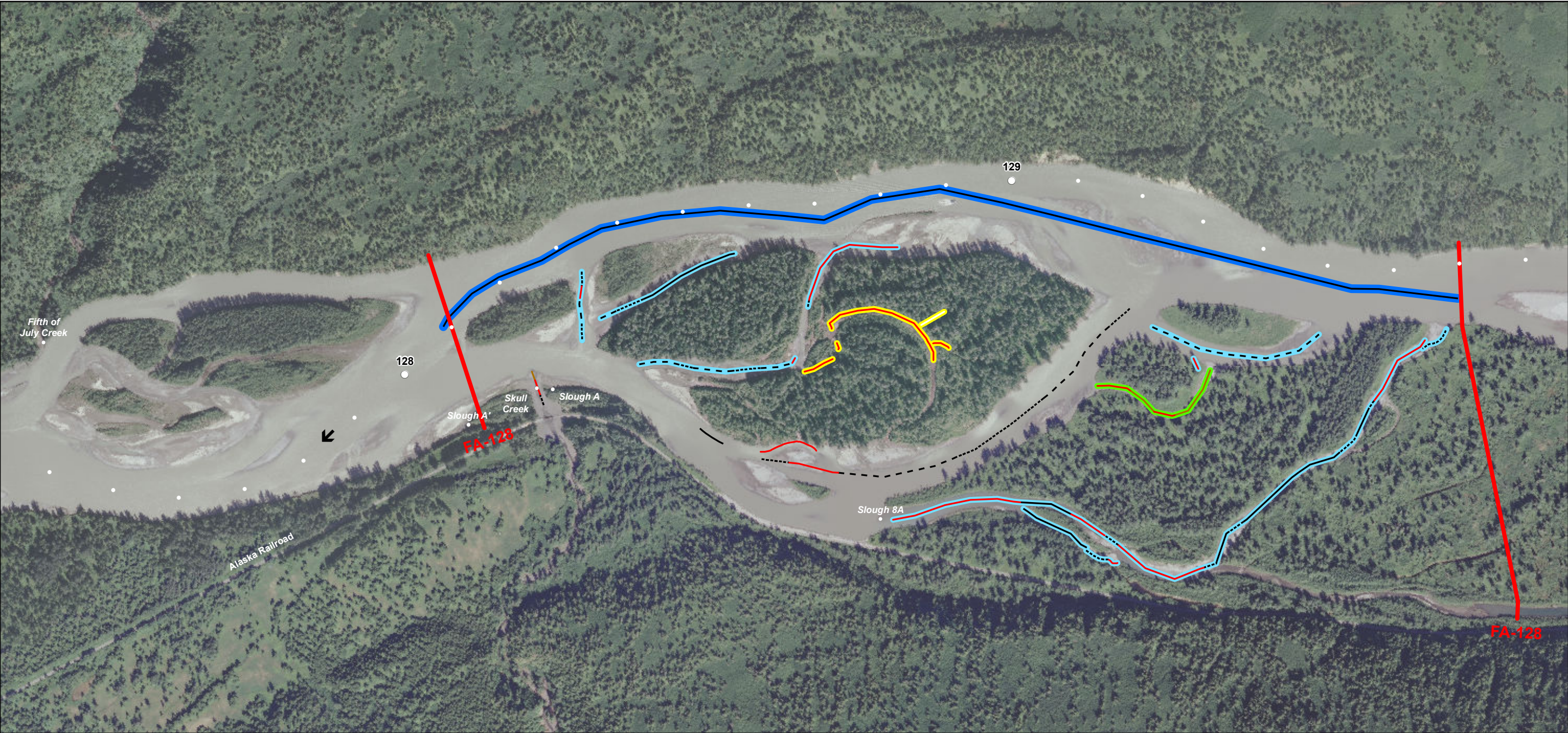


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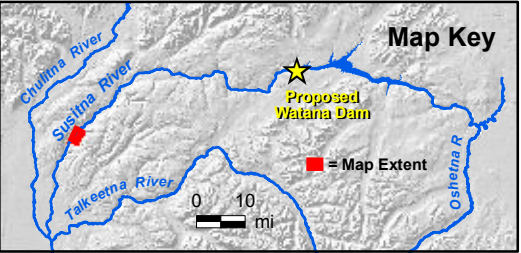
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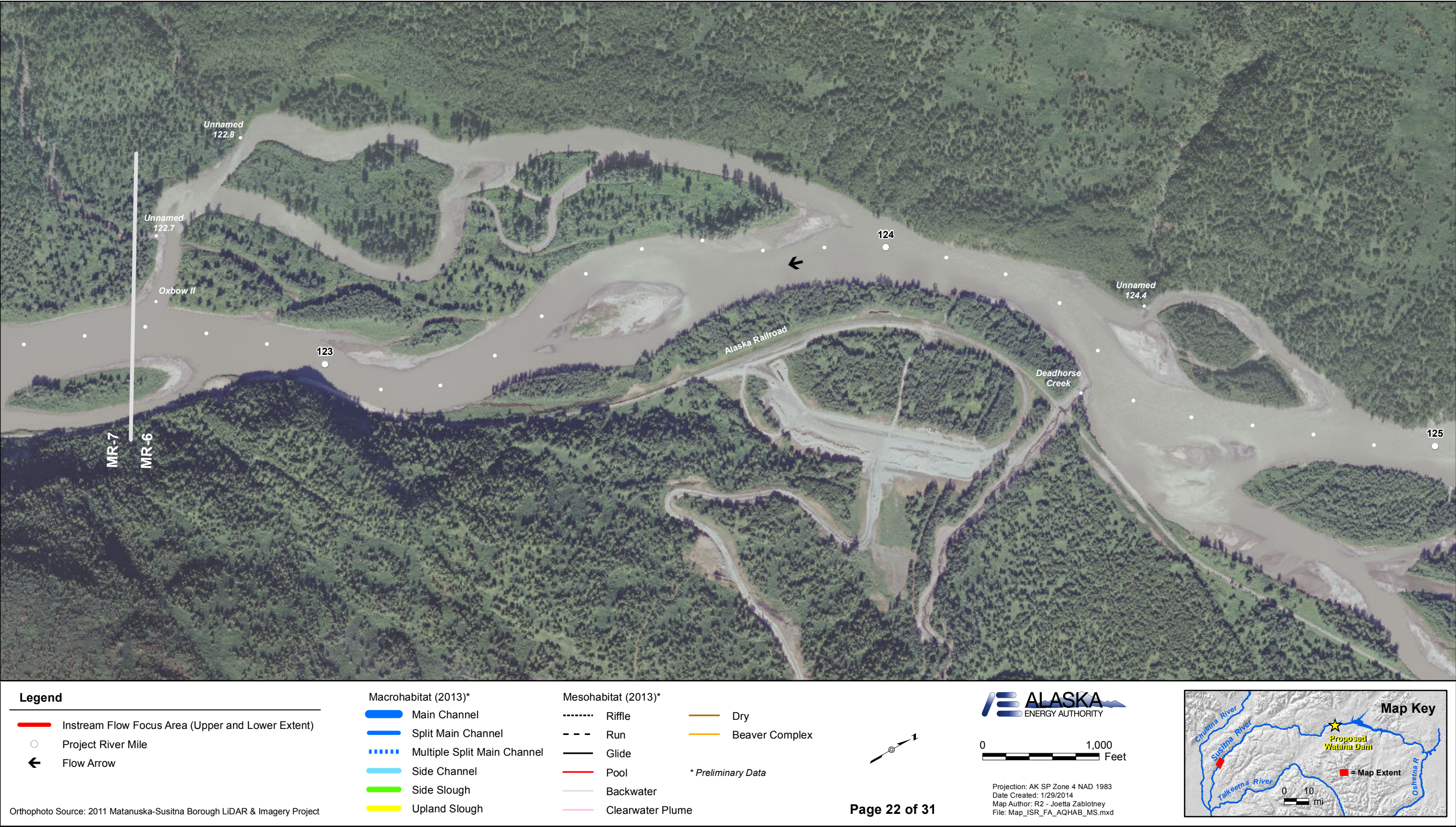
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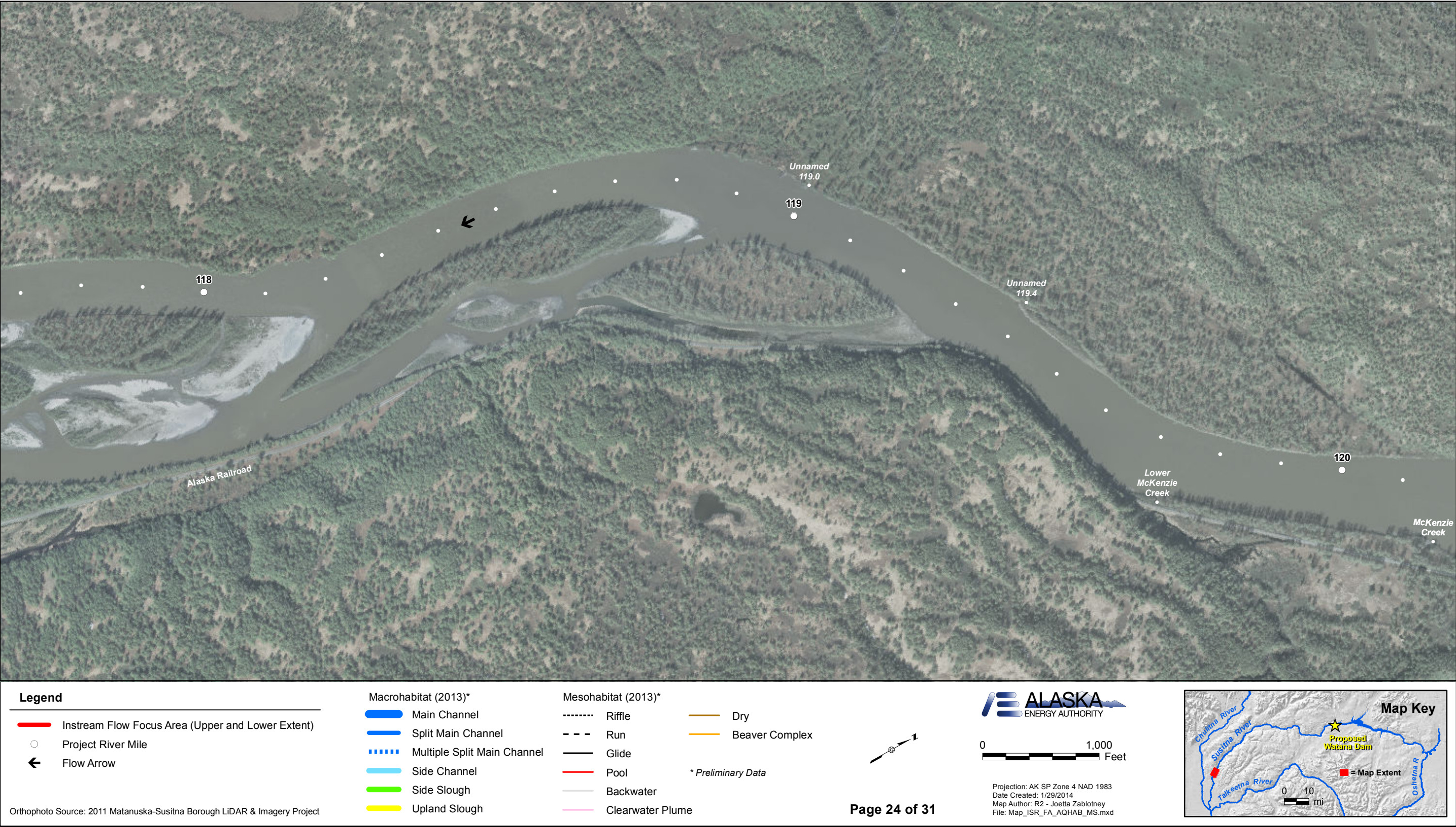
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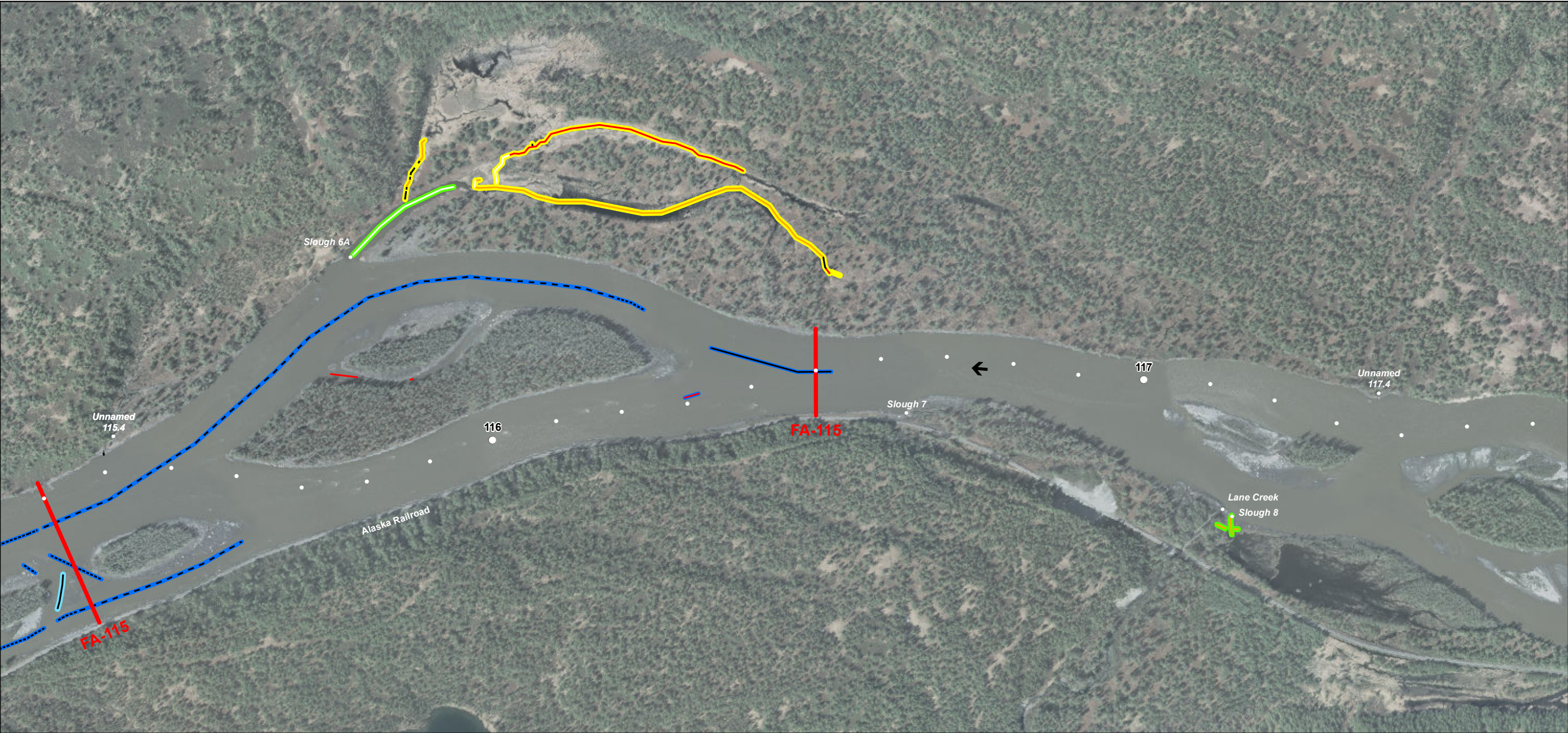
Page 23 of 31

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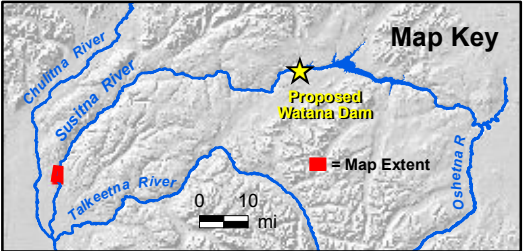
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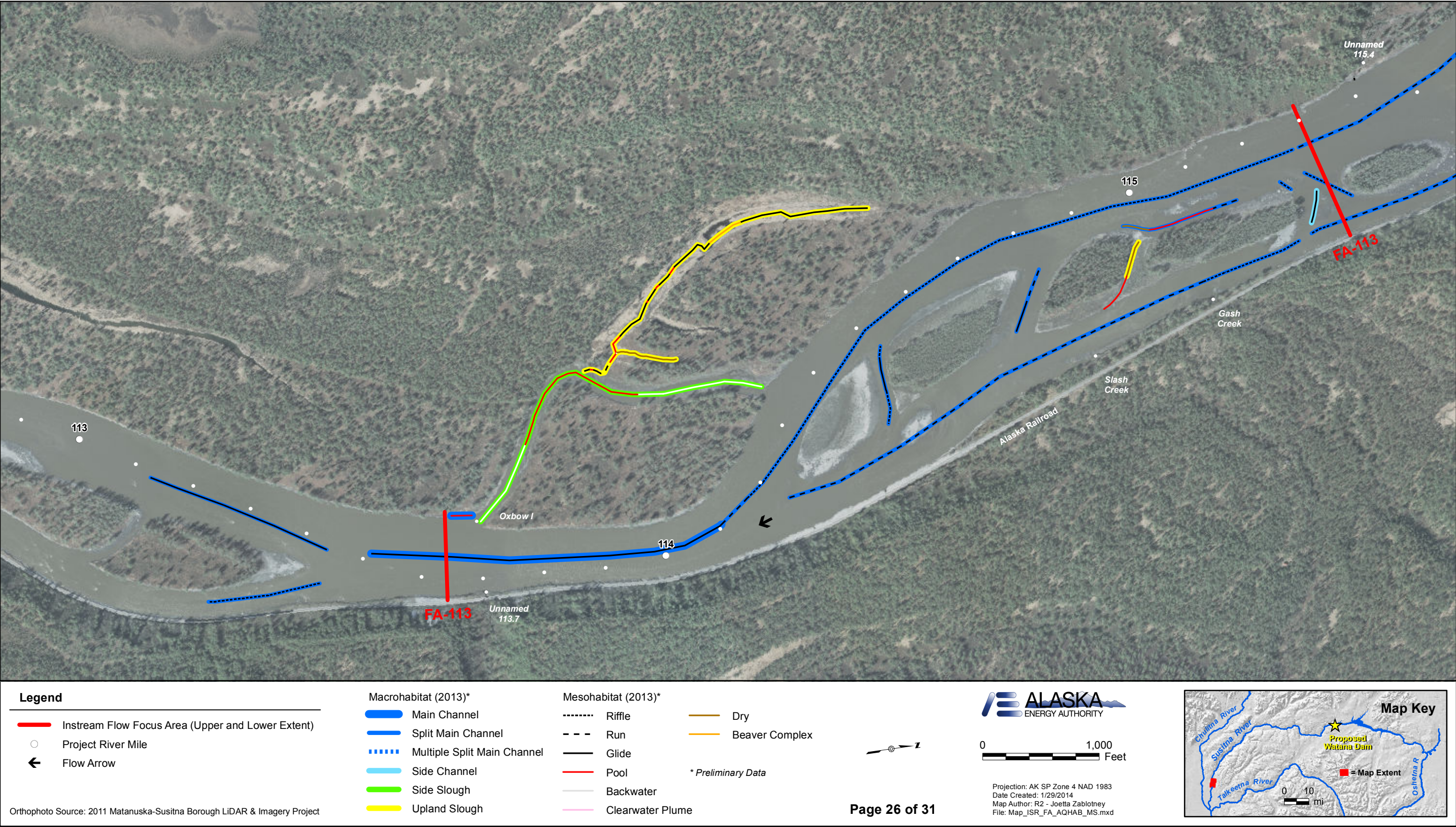
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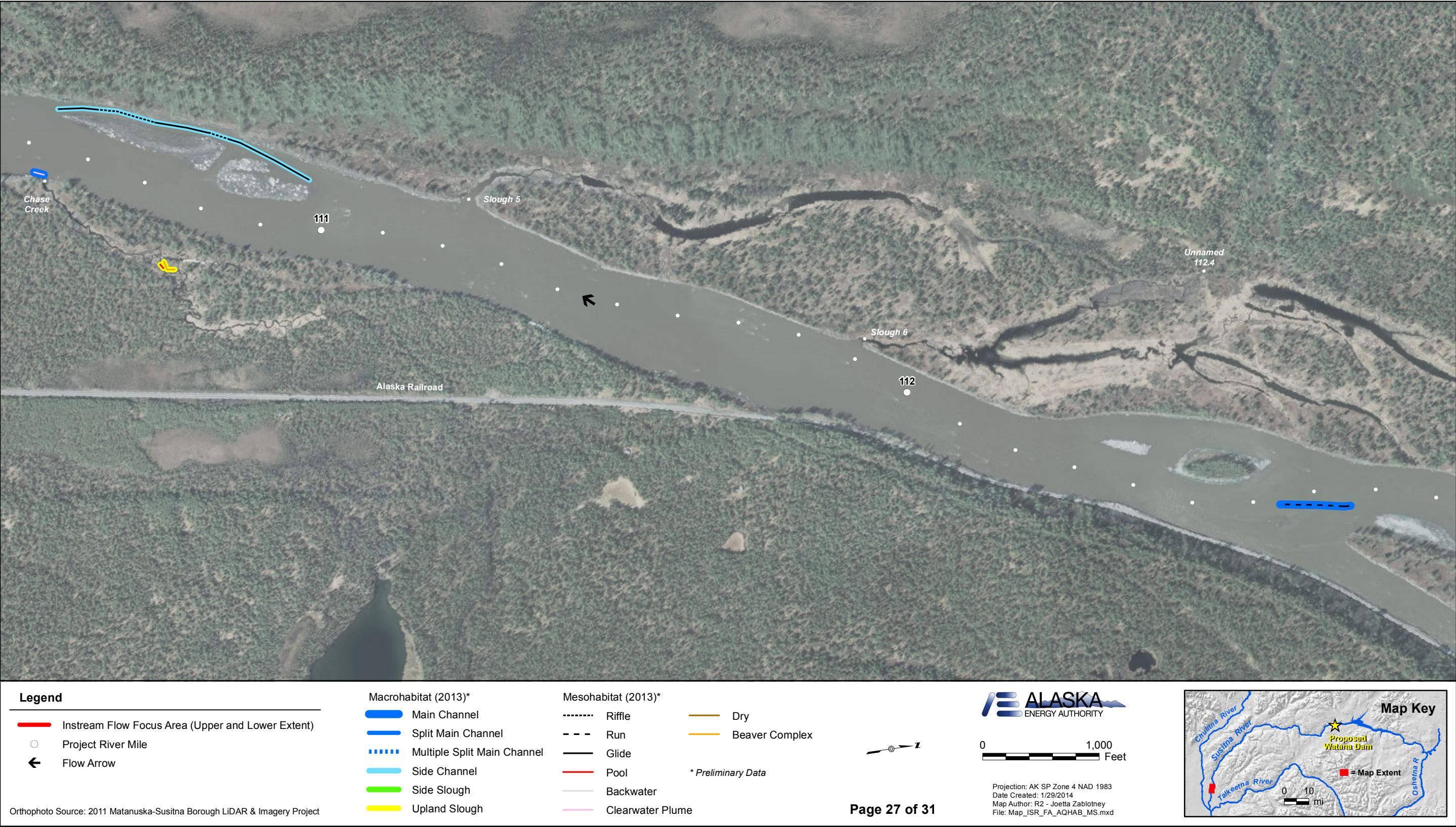


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Map Key

Chukina River

Susitna River

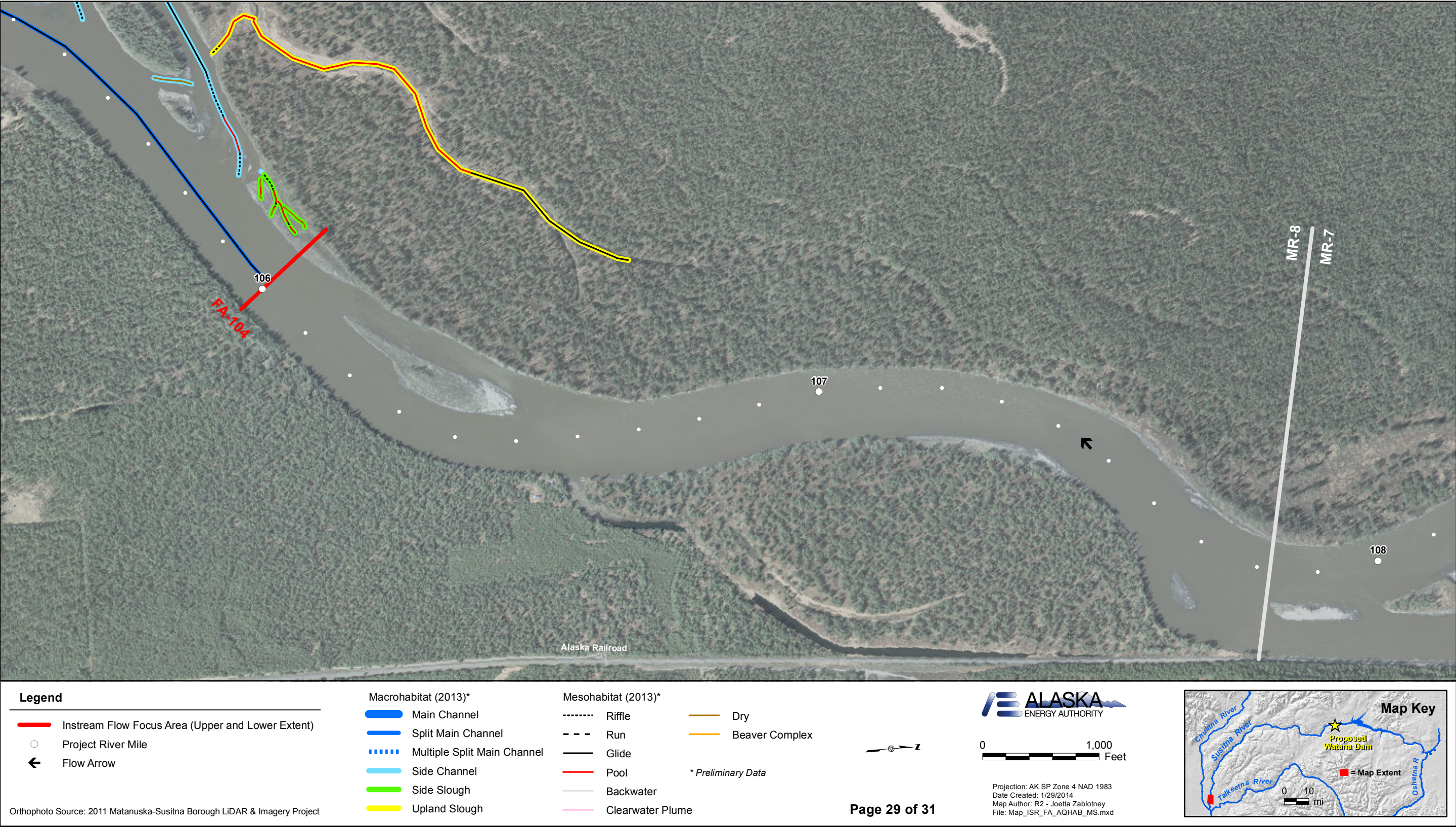
Talkeerna River

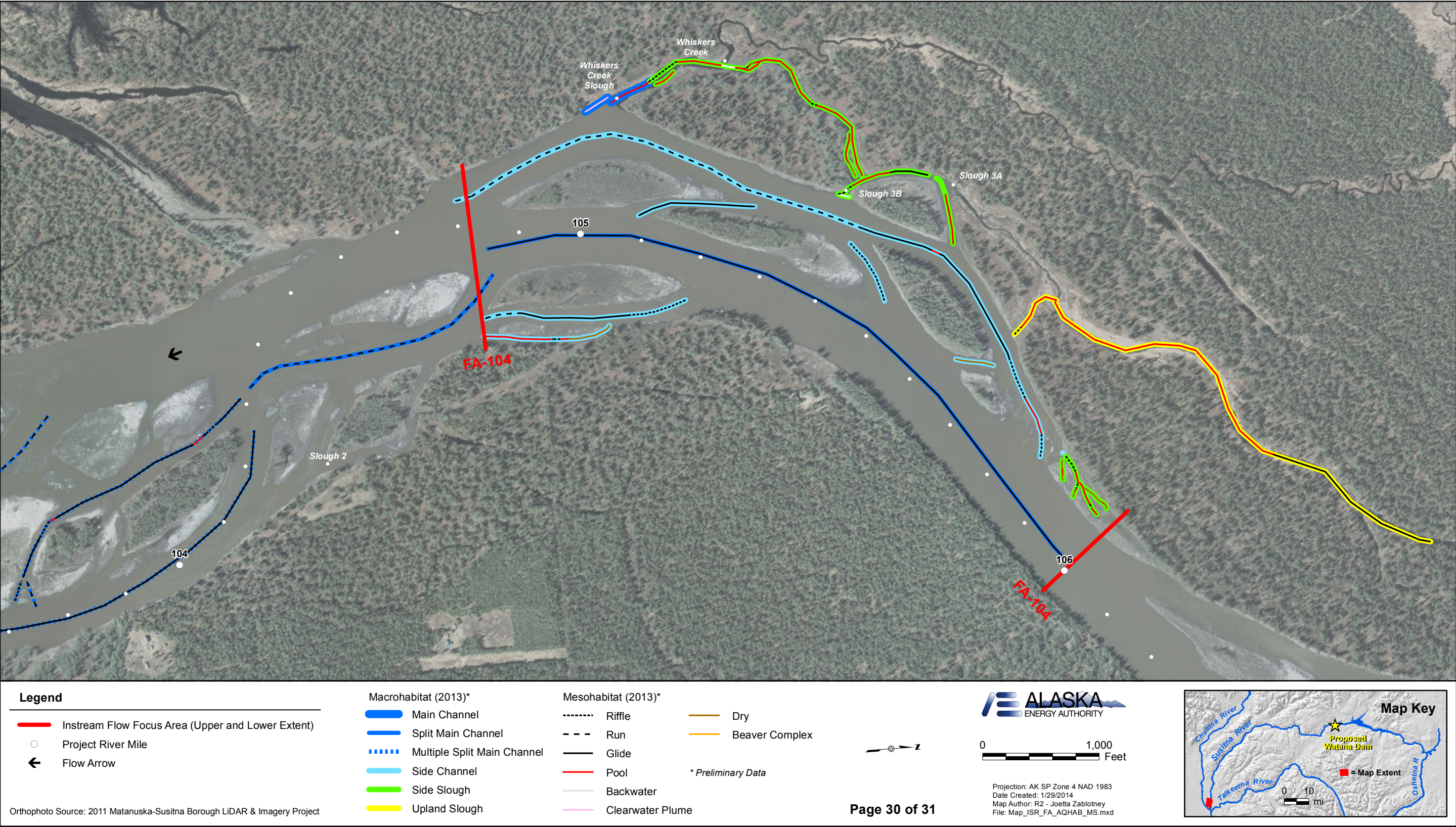
Proposed Watana Dam

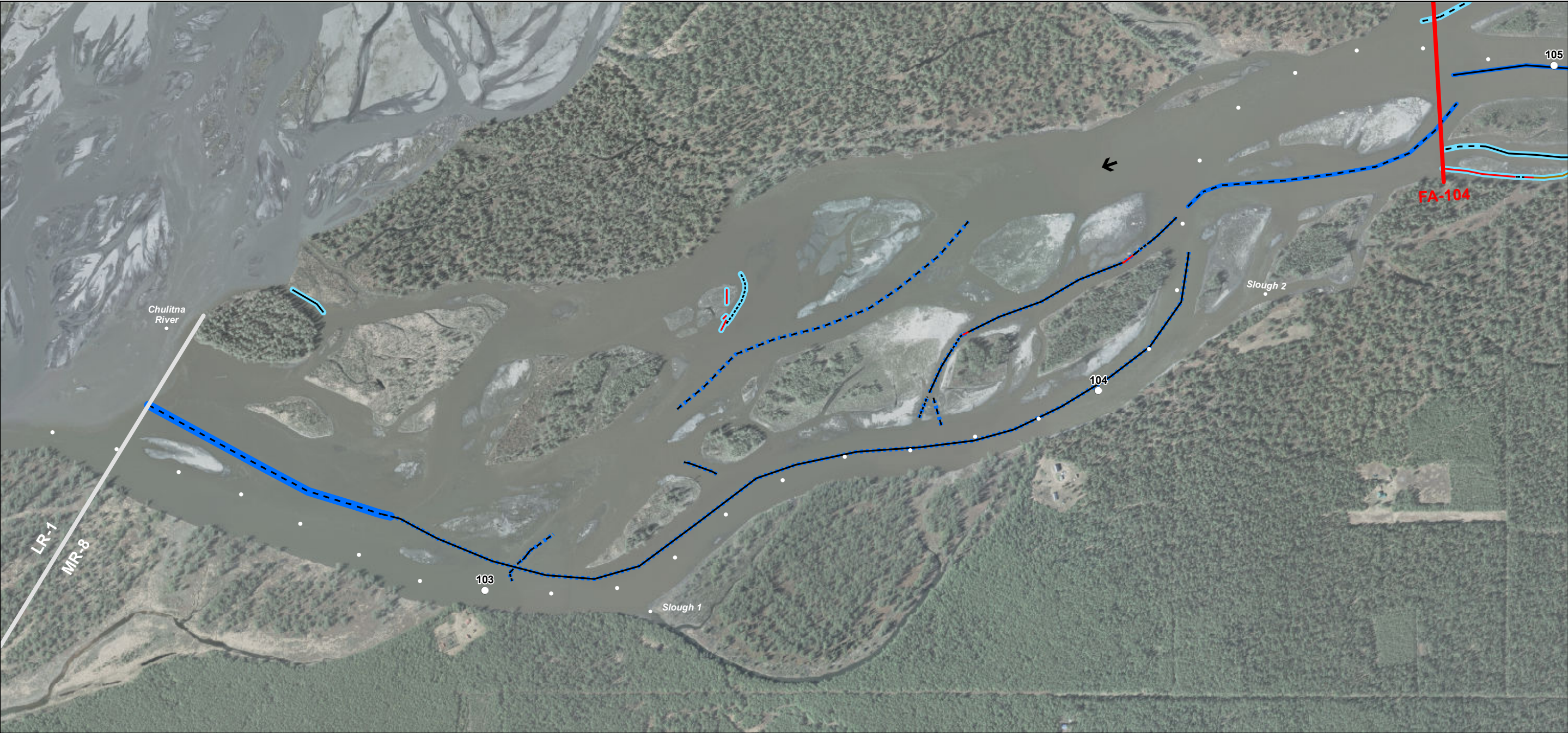
= Map Extent

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