

APPENDIX 3. MIDDLE SUSITNA RIVER SEGMENT CHANNEL CHANGE OVERLAY

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

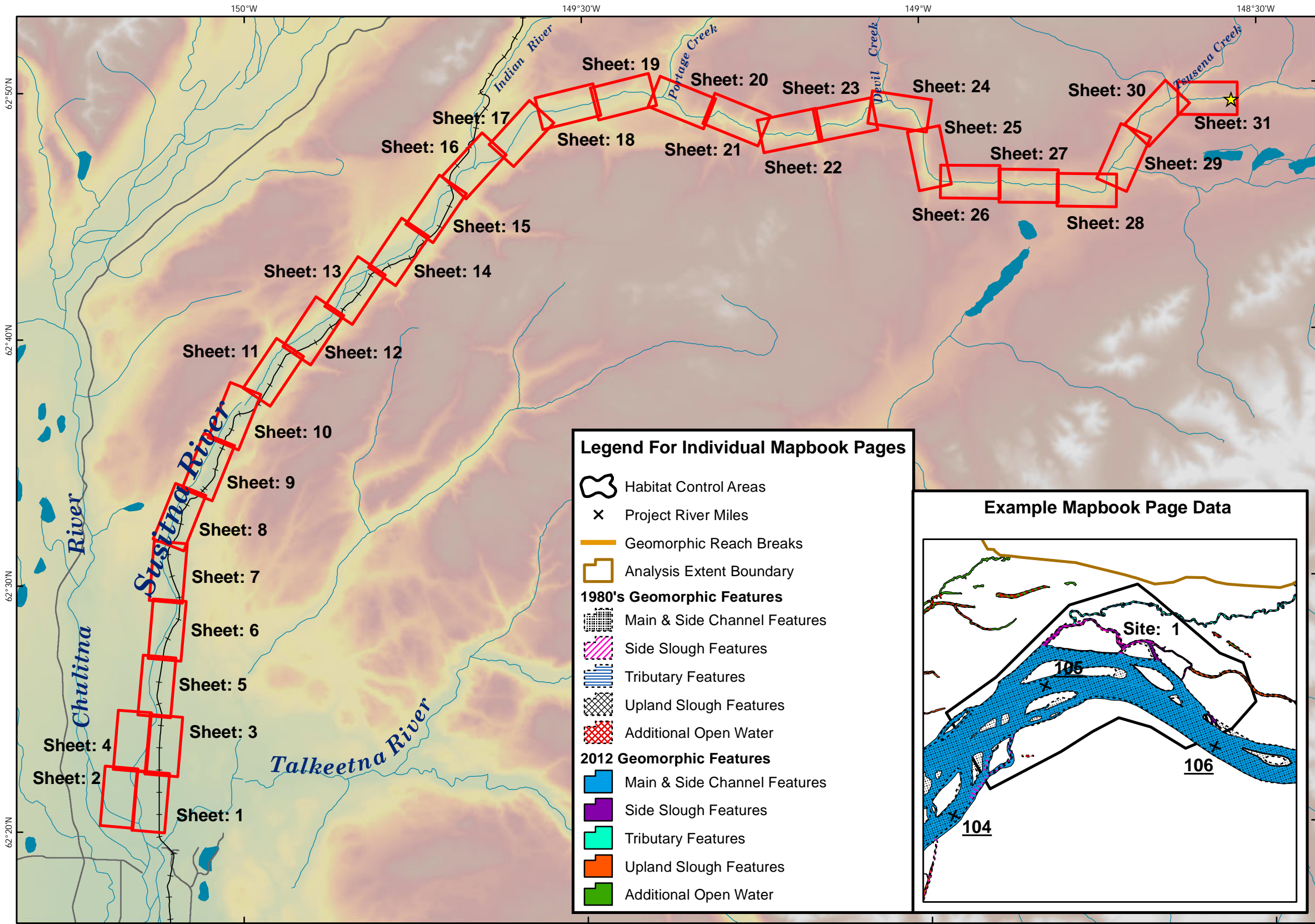
**Mapping of Geomorphic Features within the Middle and Lower
Susitna River Segments from 1980s and 2012 Aerials**

2012 Study Technical Memorandum



Prepared by
Tetra Tech Inc.

March 2013



MIDDLE SUSITNA RIVER SEGMENT CHANNEL CHANGE OVERLAY 1980'S - 2012

Legend

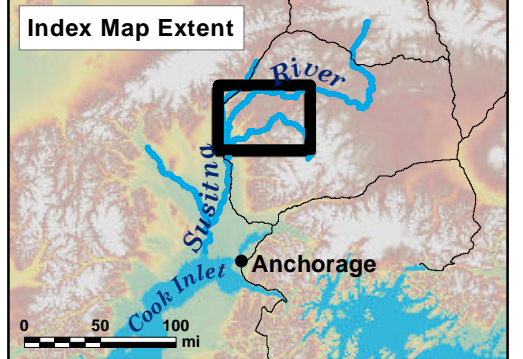
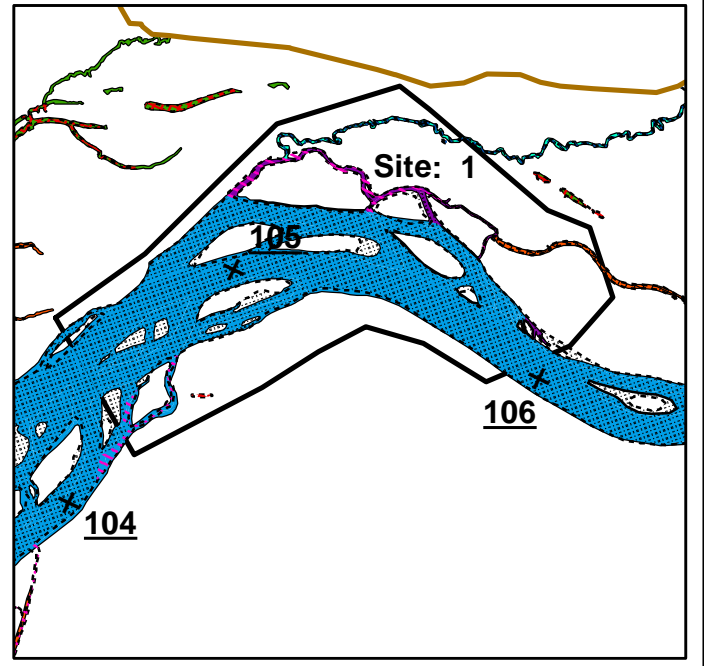
- Sheet Extents
- ★ Proposed Watana Dam Site
- Roads
- +— Railroads
- ~ Rivers and Streams
- Waterbodies

Data Sources: See Map References

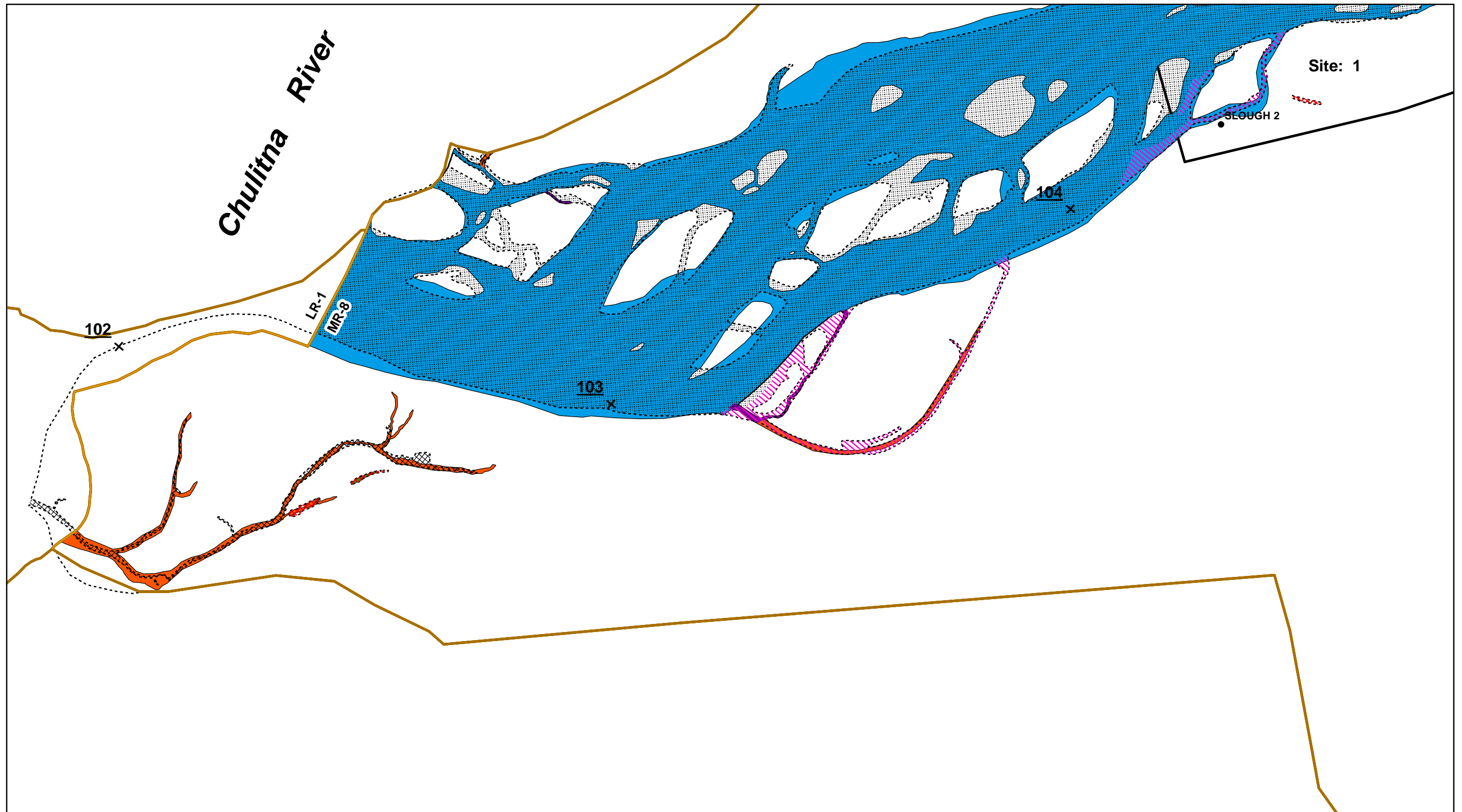
Legend For Individual Mapbook Pages

- Habitat Control Areas
- × Project River Miles
- Geomorphic Reach Breaks
- Analysis Extent Boundary
- 1980's Geomorphic Features**
- Main & Side Channel Features
- Side Slough Features
- Tributary Features
- Upland Slough Features
- Additional Open Water
- 2012 Geomorphic Features**
- Main & Side Channel Features
- Side Slough Features
- Tributary Features
- Upland Slough Features
- Additional Open Water

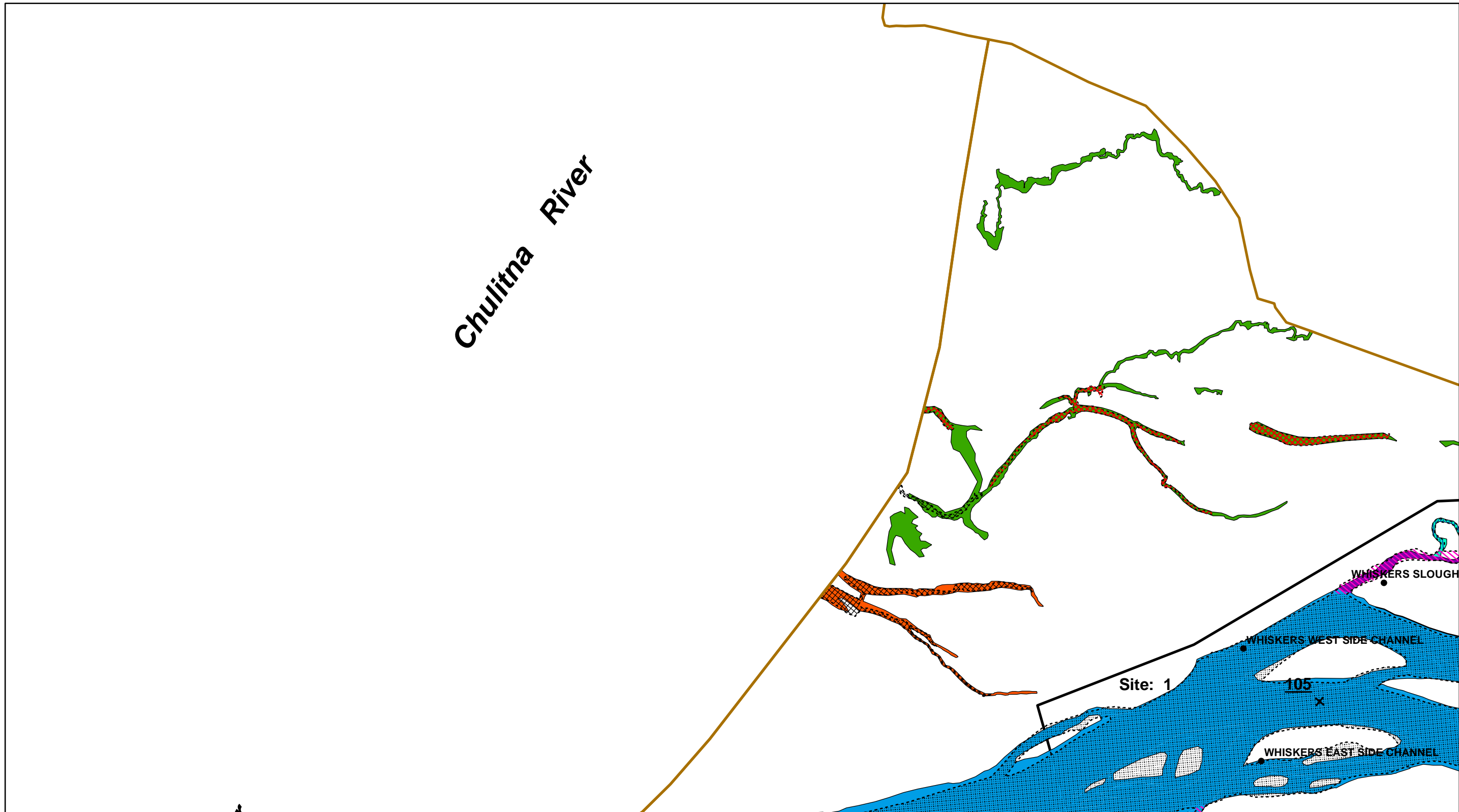
Example Mapbook Page Data



Projection: NAD83 State Plane Alaska 4 FIPS 5004 (ft)
 Date Created: 3/14/2013
 Map Author: Tetra Tech
 File: MapbookGeomorph_Middle_ChannelChange_v1.mxd



Chulitna River



0 1,000 2,000 Feet

1 inch = 1,000 feet

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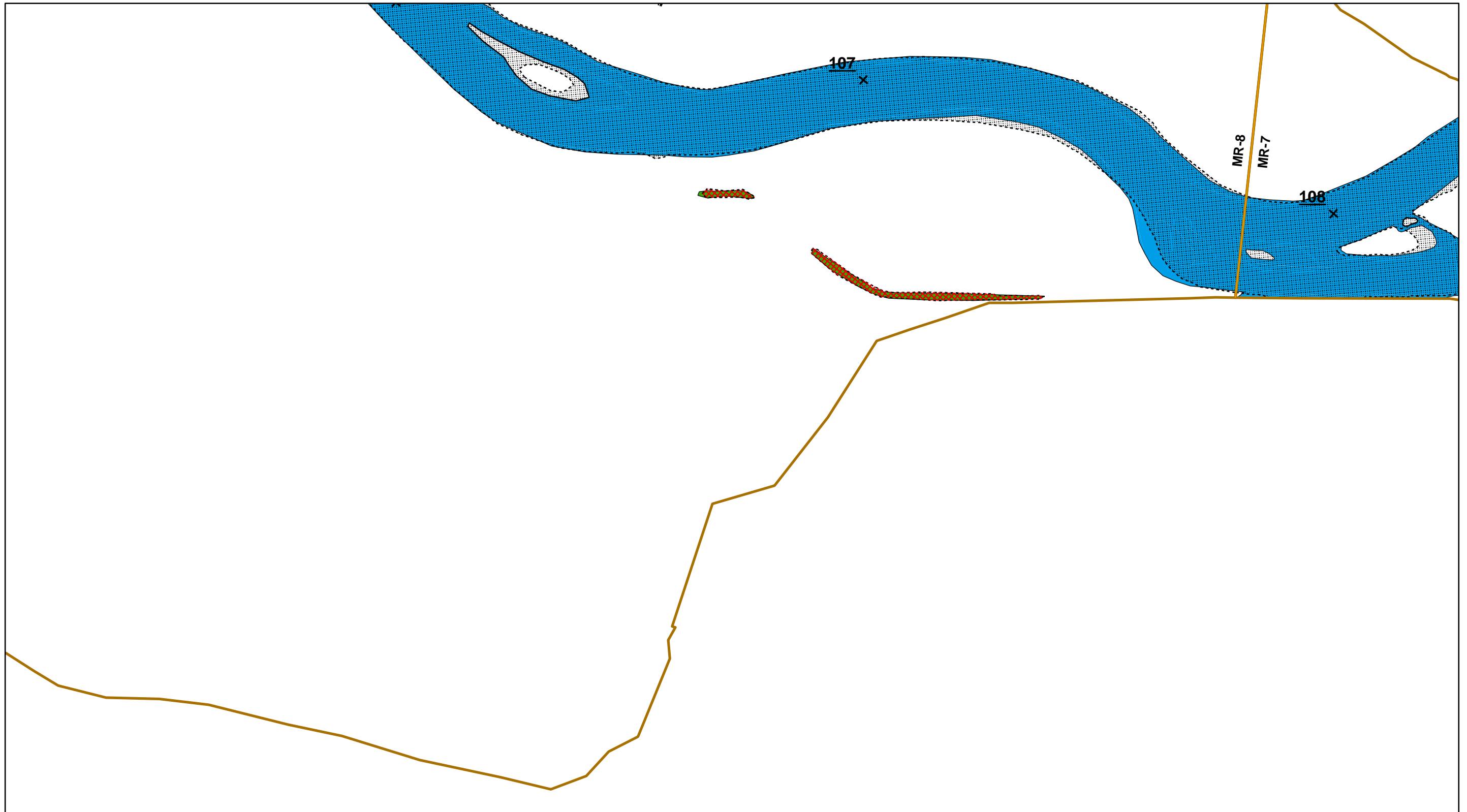
MIDDLE SUSITNA RIVER SEGMENT 1980's - 2012 CHANNEL CHANGE

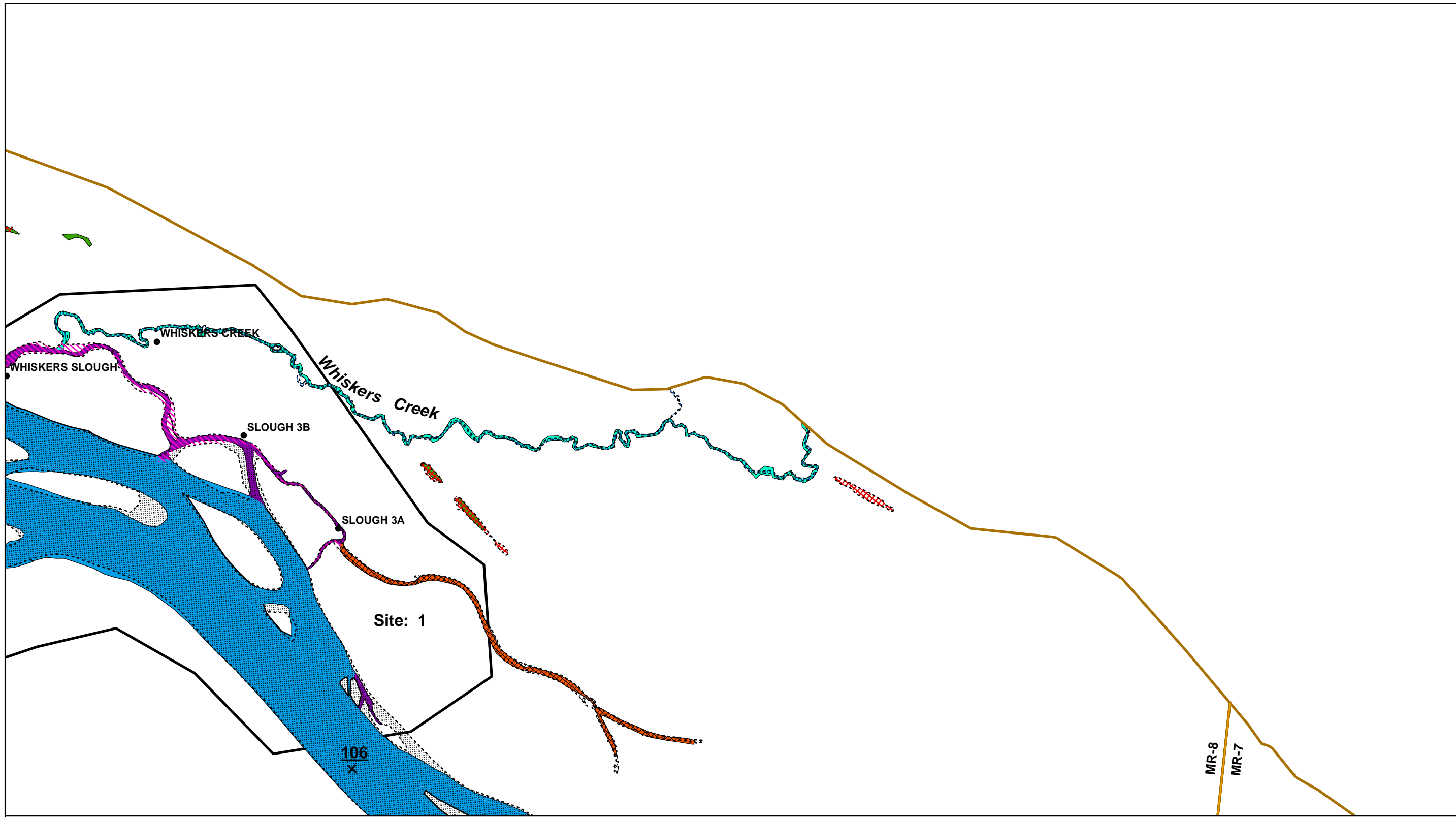
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PRM 102.4 - 143.6:	09/10/2012,	12,900 cfs
PRM 143.6 - 187.1:	09/30/2012,	17,000 cfs

Location:	Imagery Date:	Discharge (Gold Creek)
PRM 102.4 - 154.0	09/11/1983	12,500 cfs
PRM 154.0 - 187.1	07/19-20/1980	31,600 - 35,800 cfs



See index page for legend and additional data information.





0 1,000 2,000 Feet

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Sheet 4 of 31

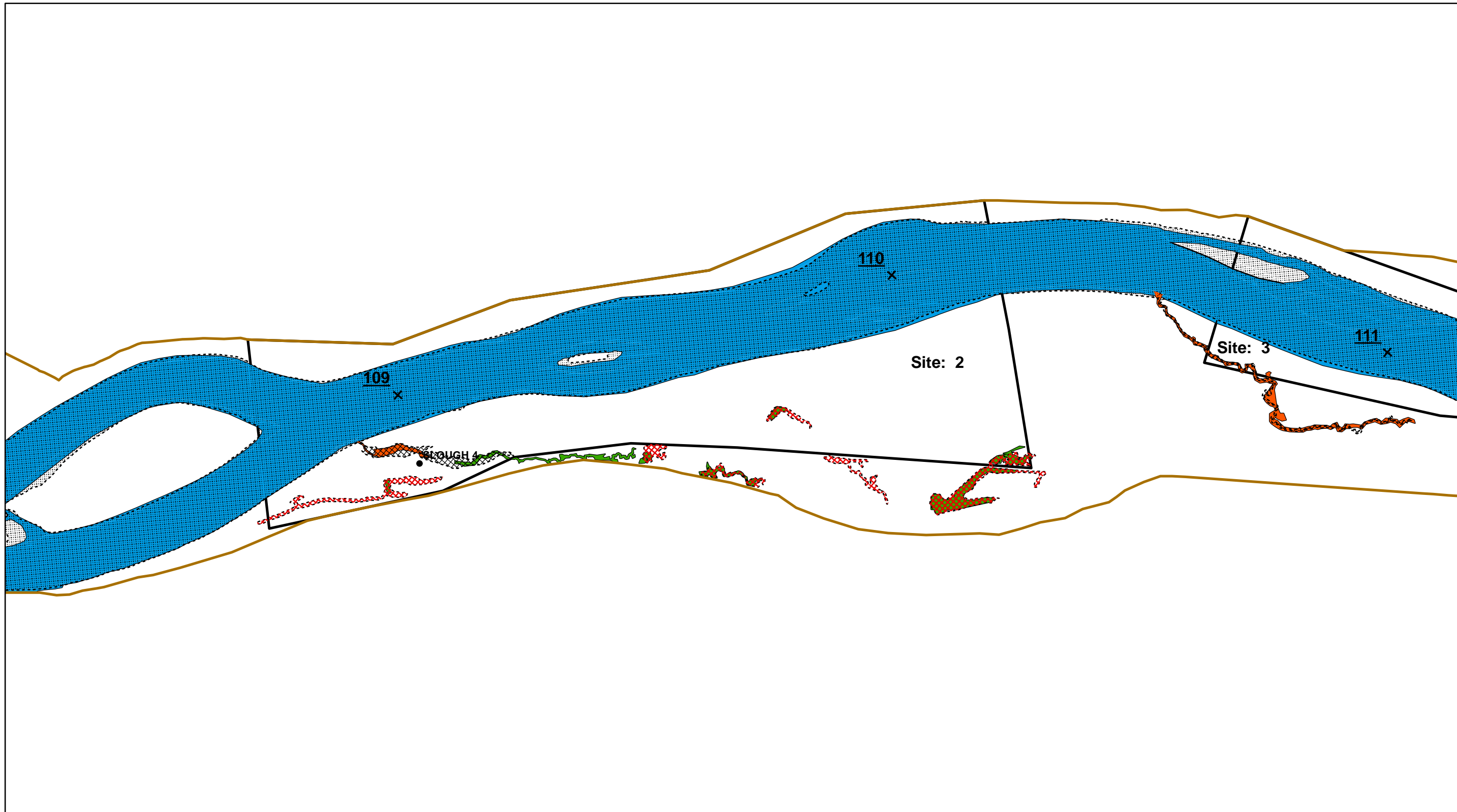
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1980's - 2012 CHANNEL CHANGE**

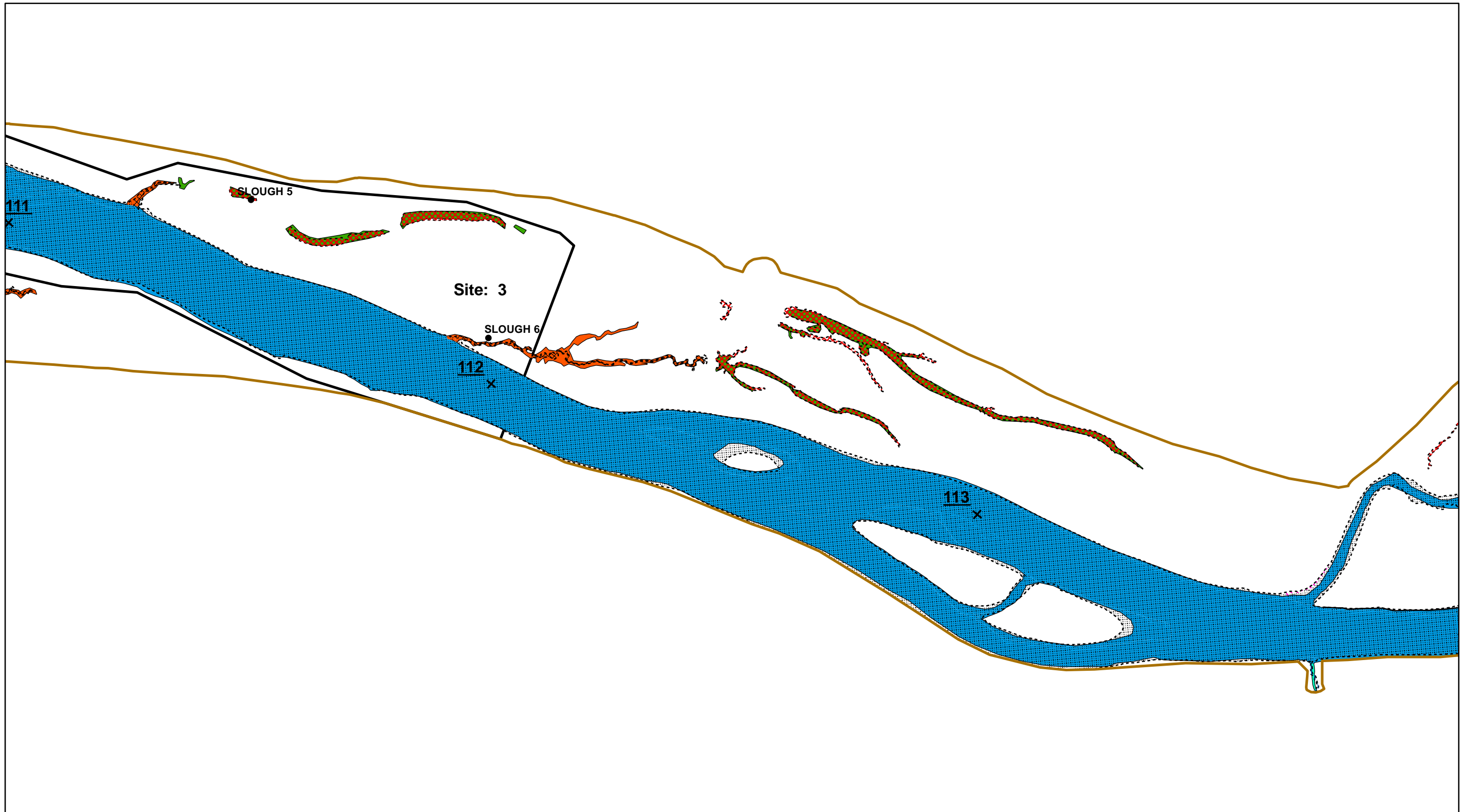
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Sheet 6 of 31

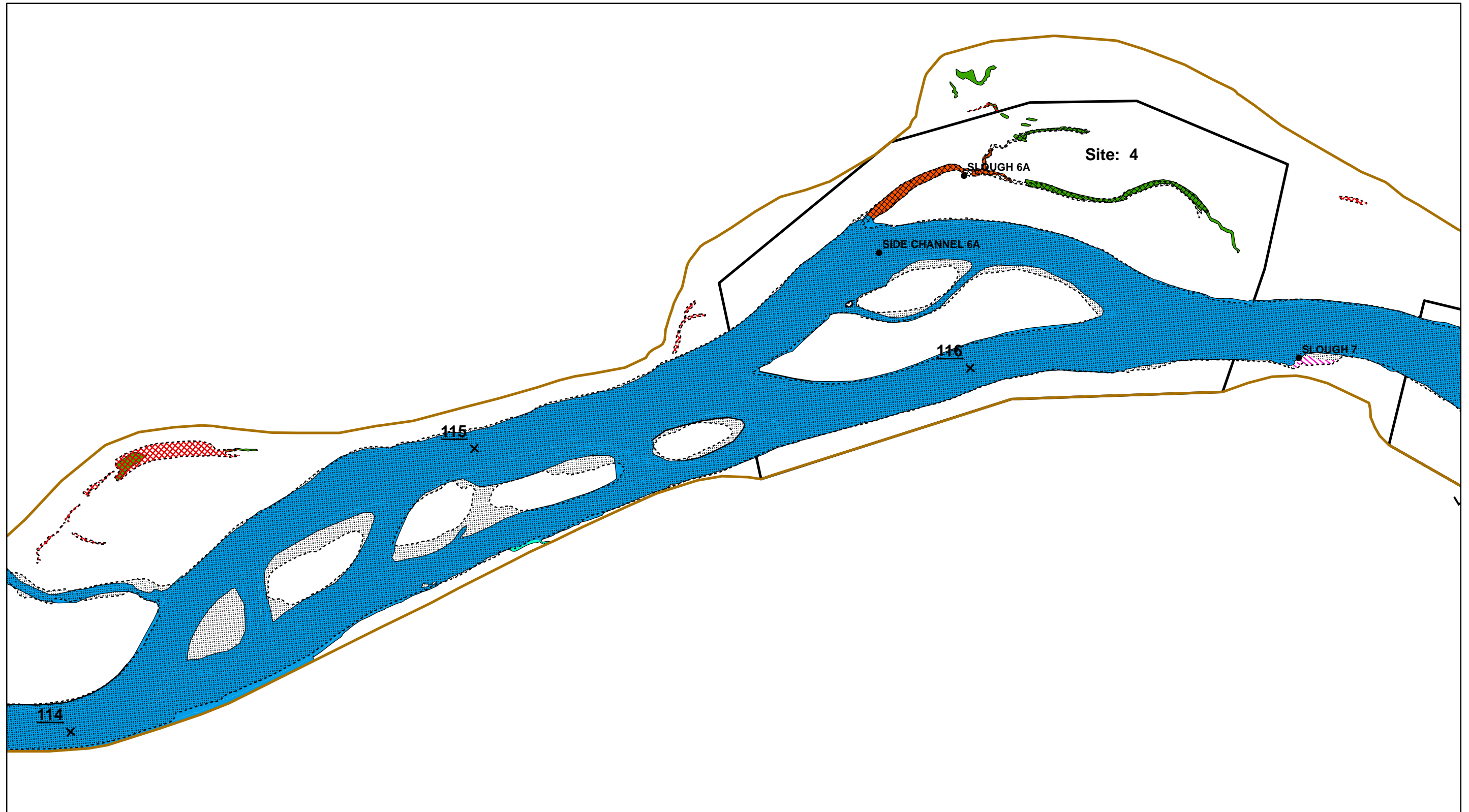
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1980's - 2012 CHANNEL CHANGE**

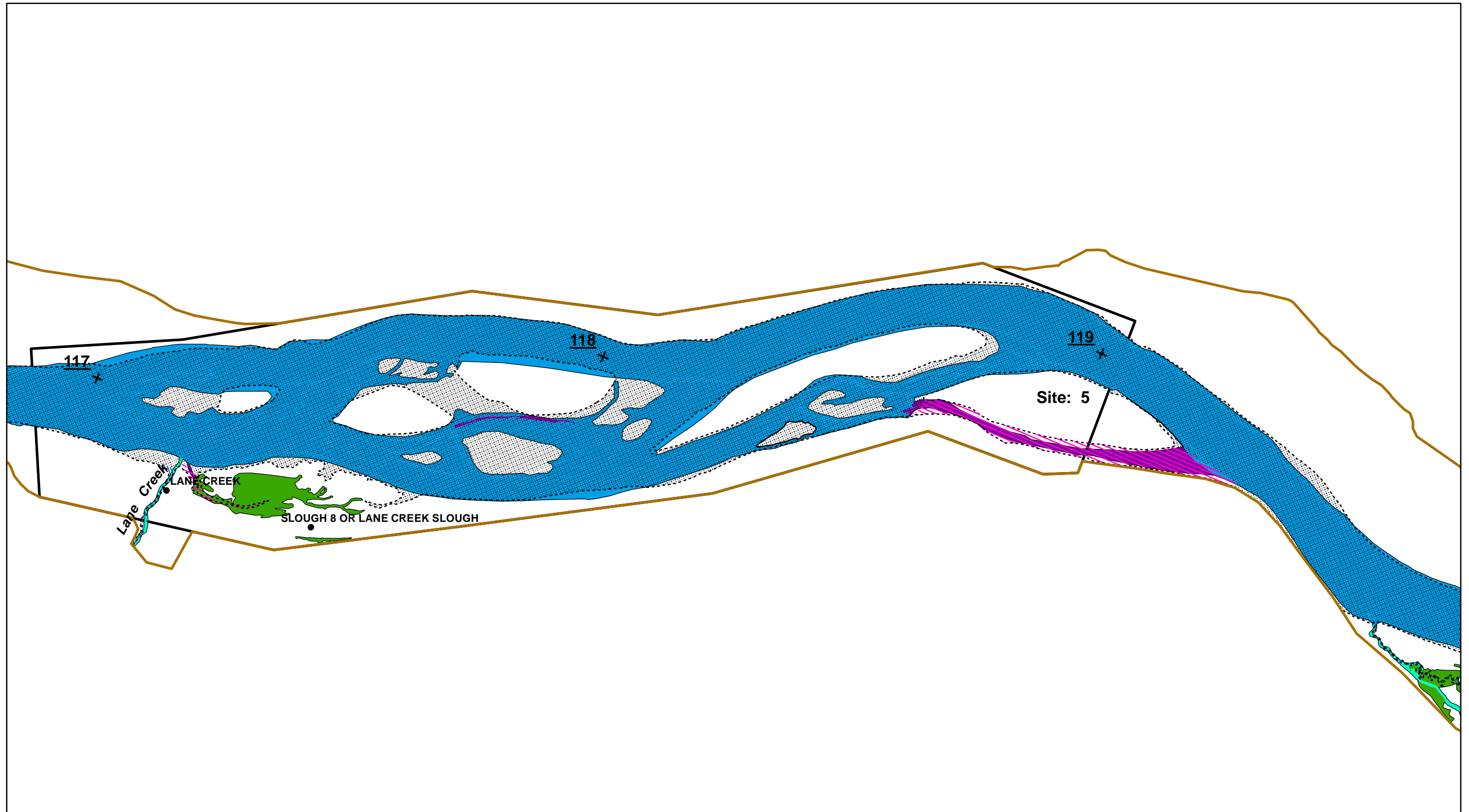
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0 1,000 2,000 Feet

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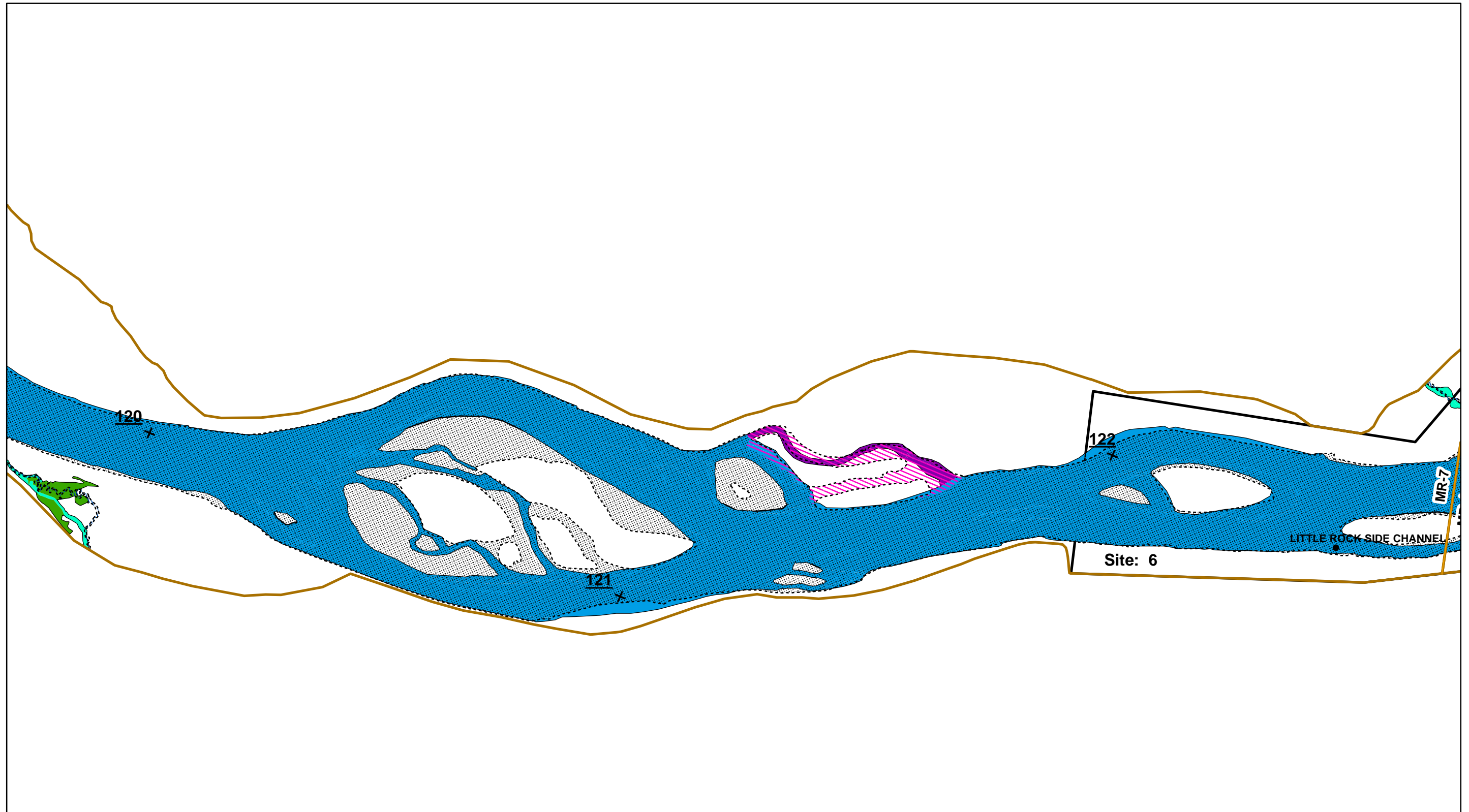
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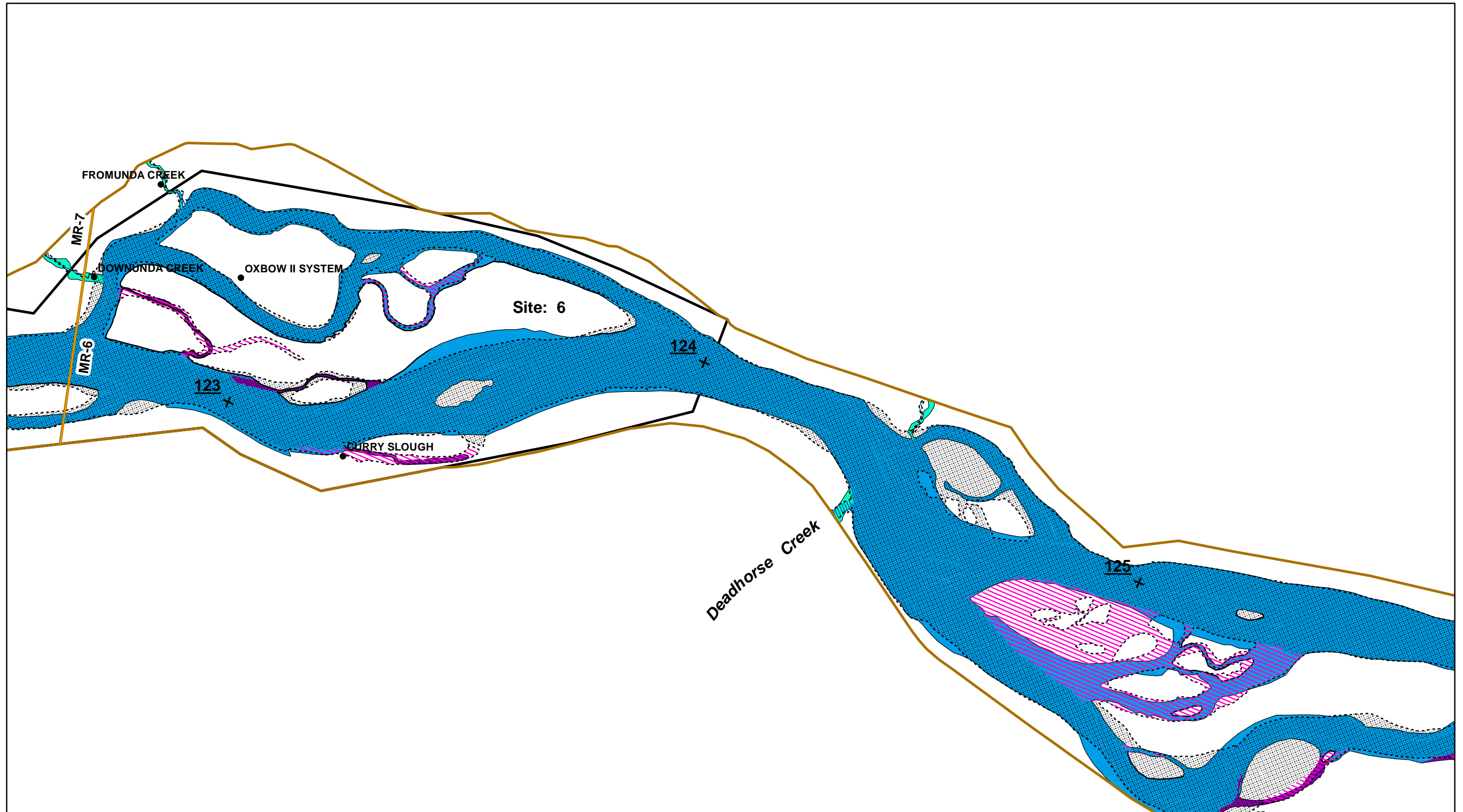
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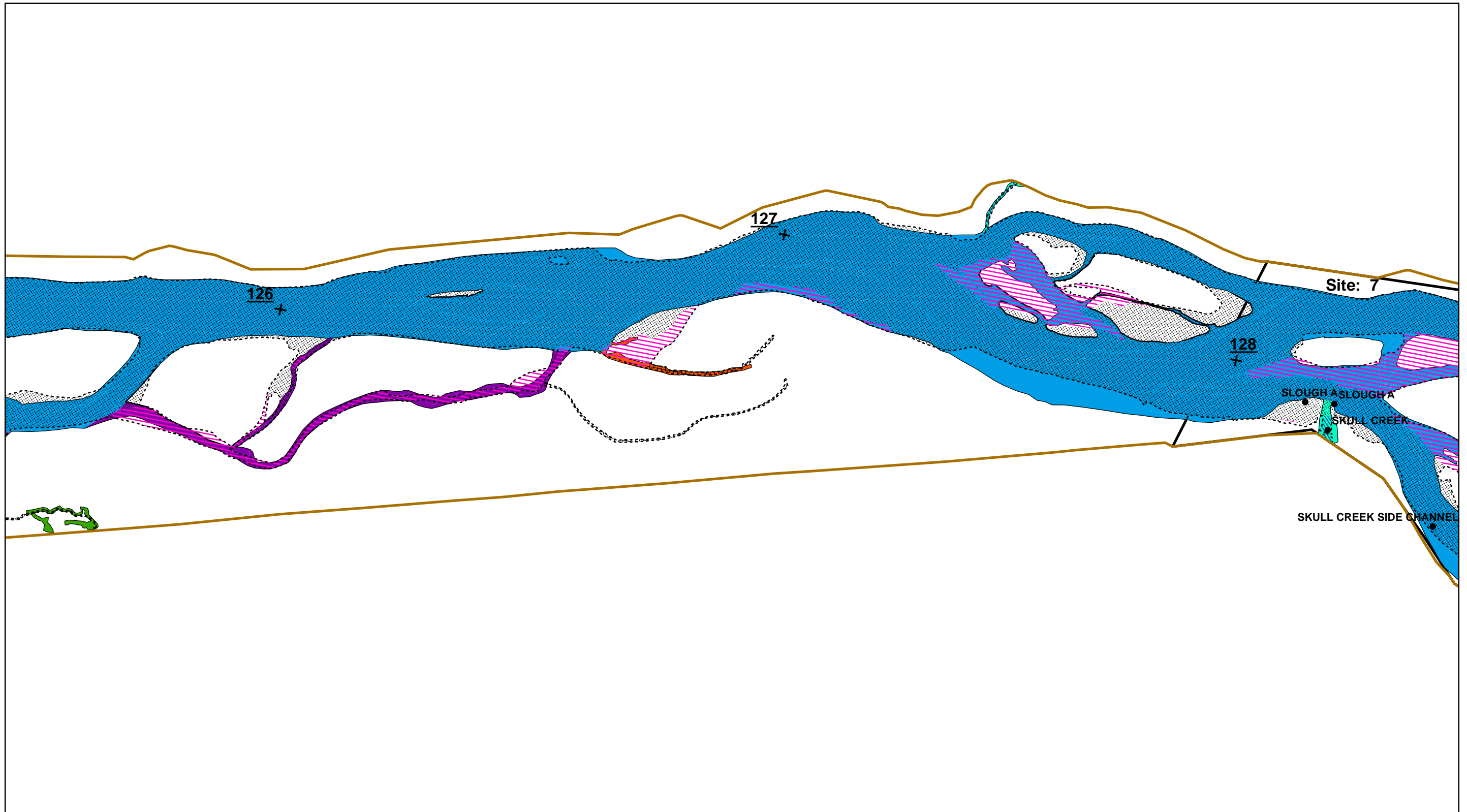
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Sheet 11 of 31

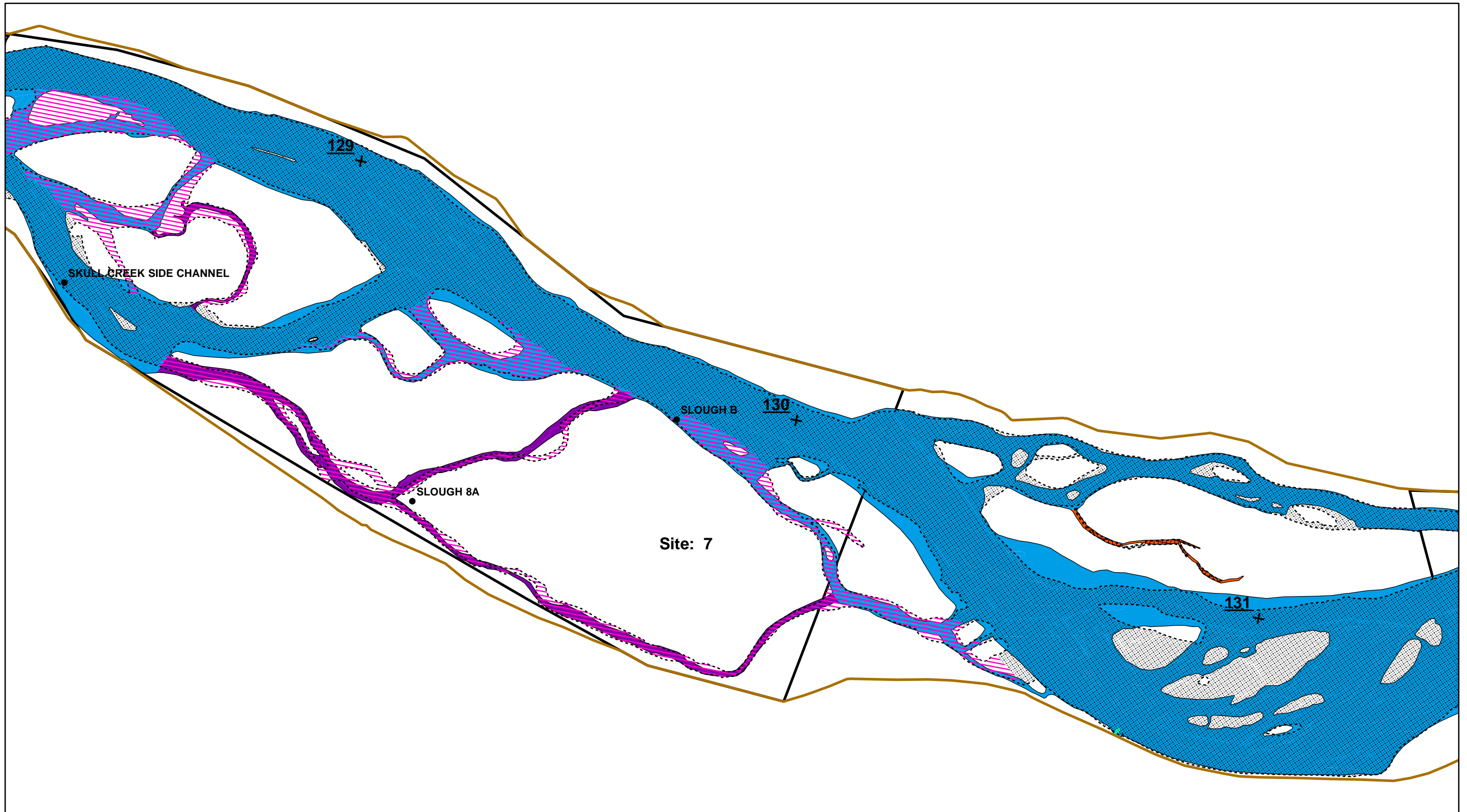
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Sheet 12 of 31

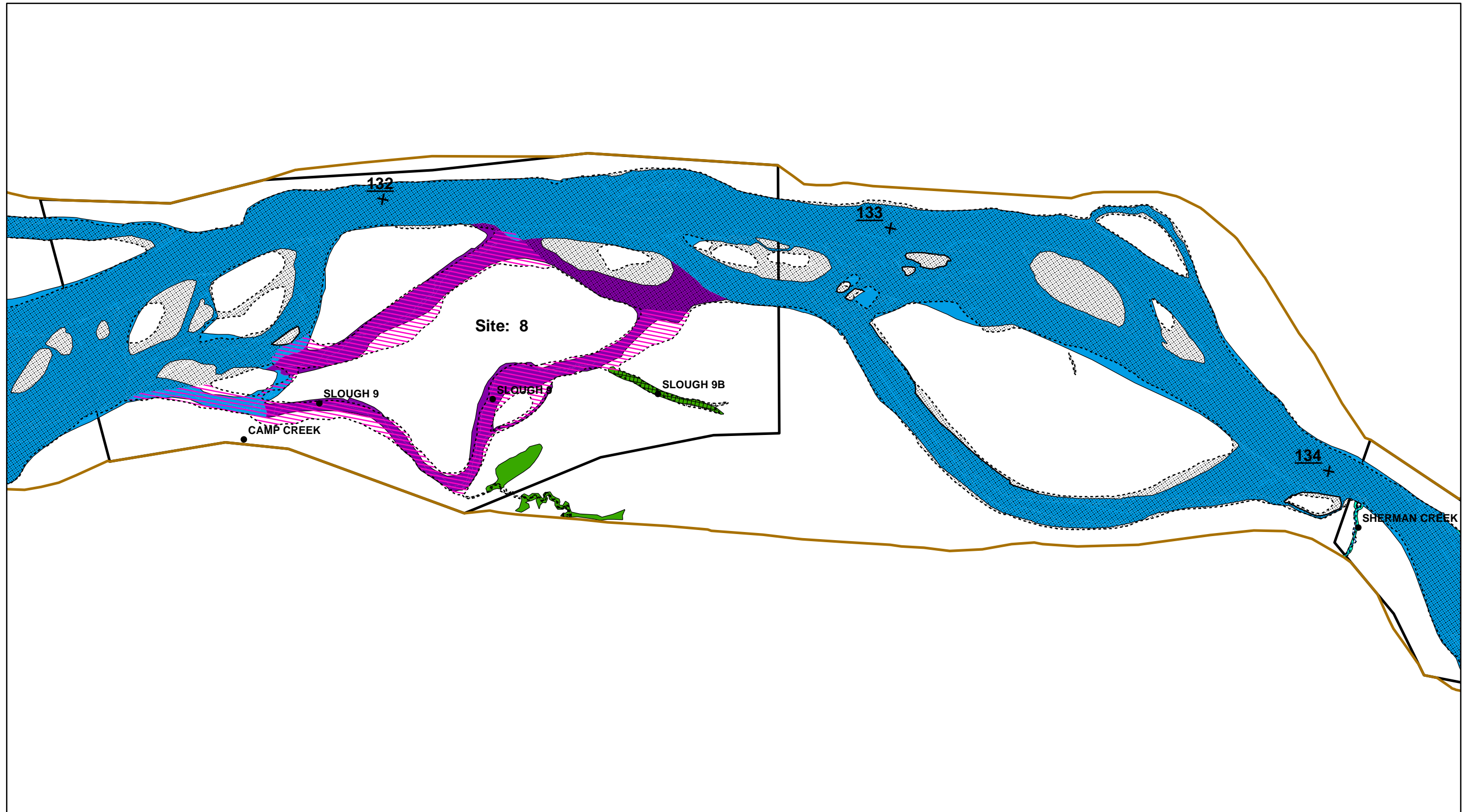
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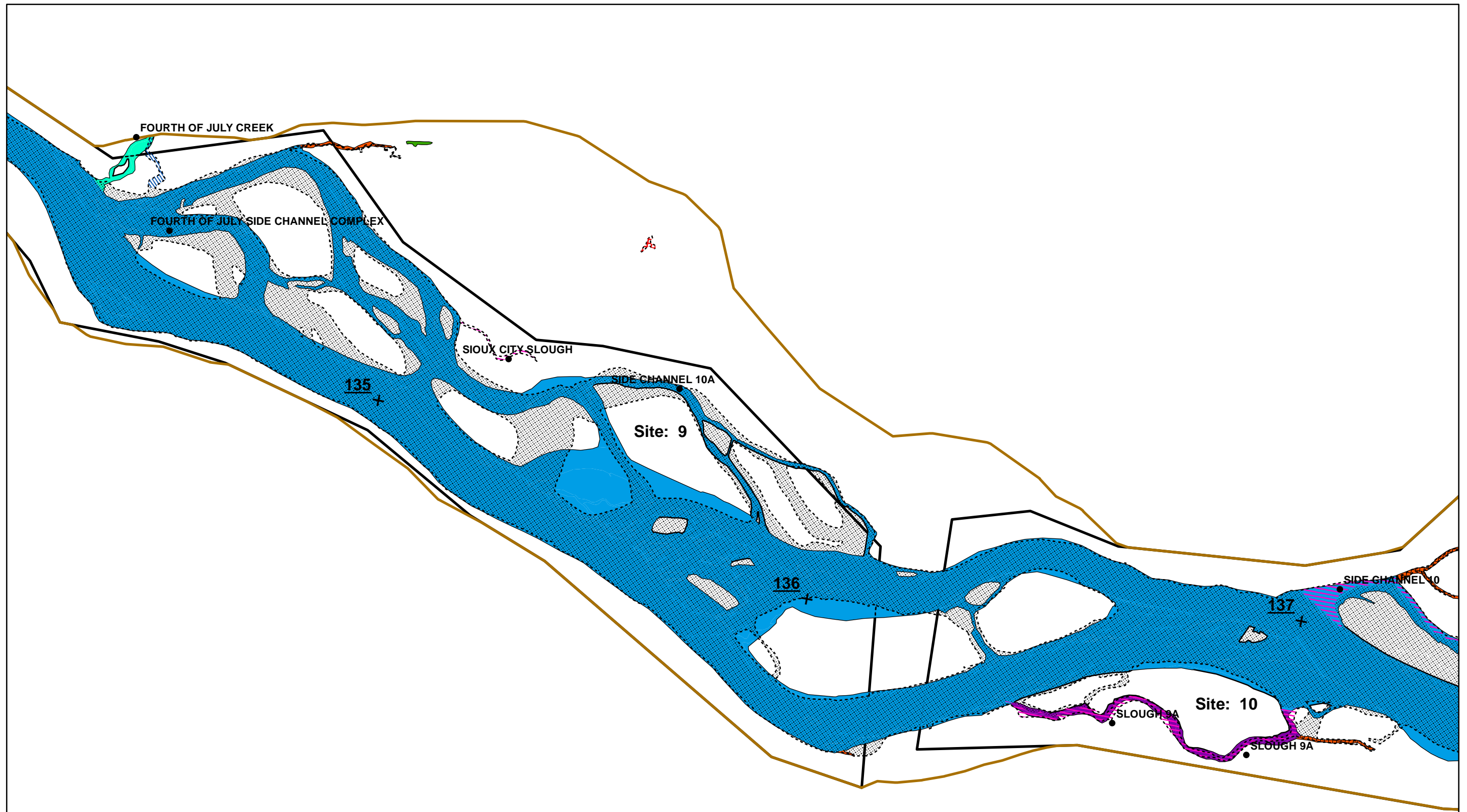
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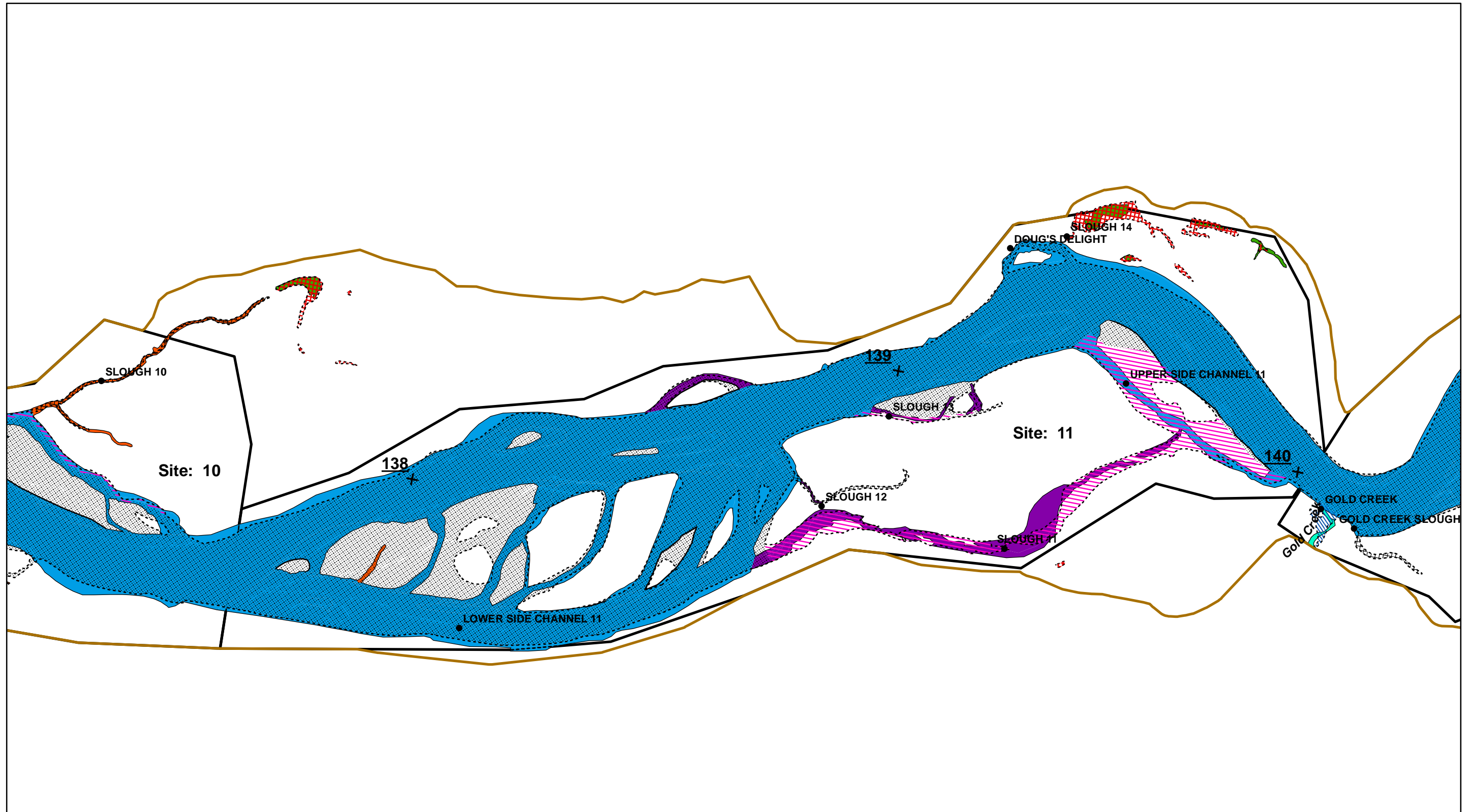
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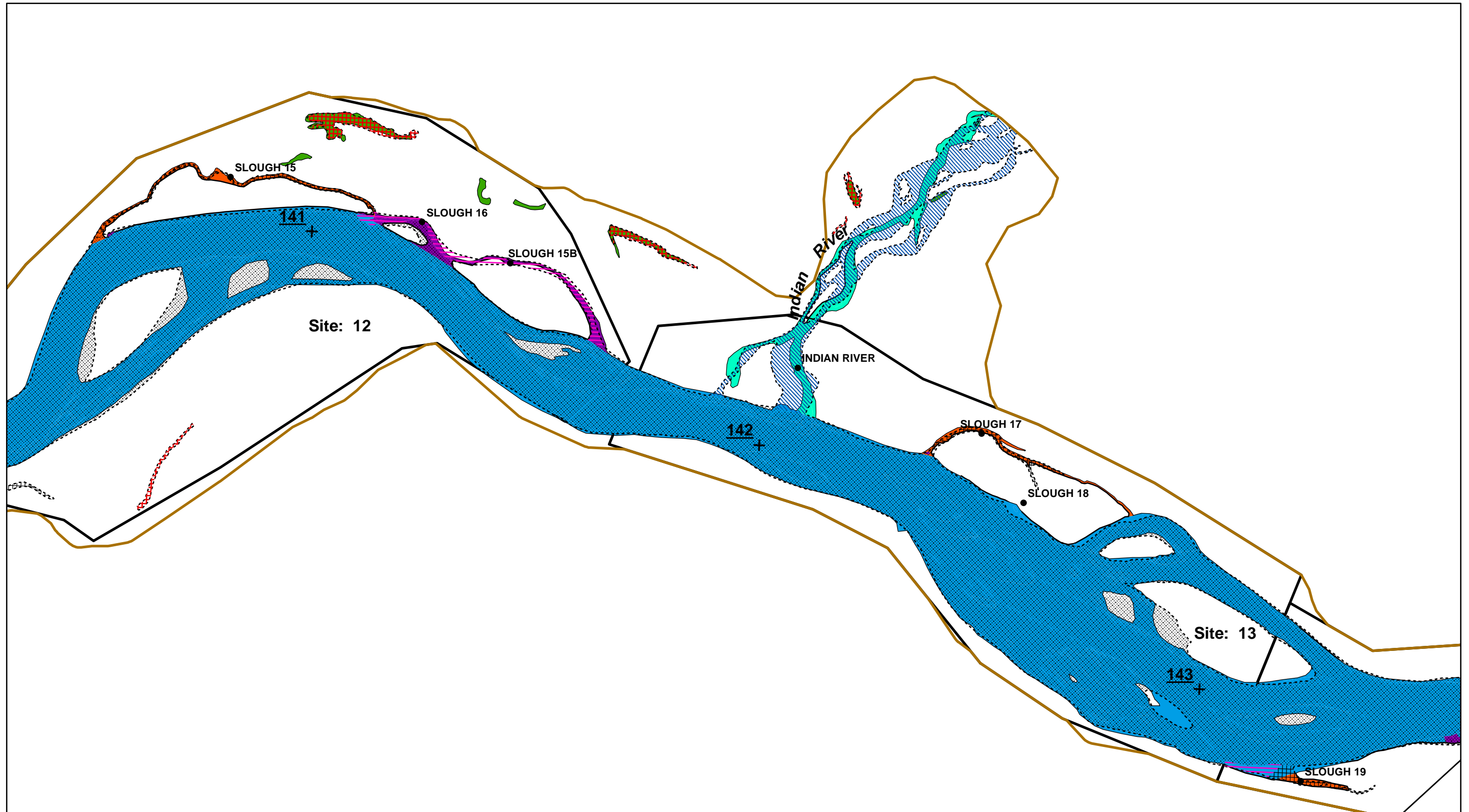
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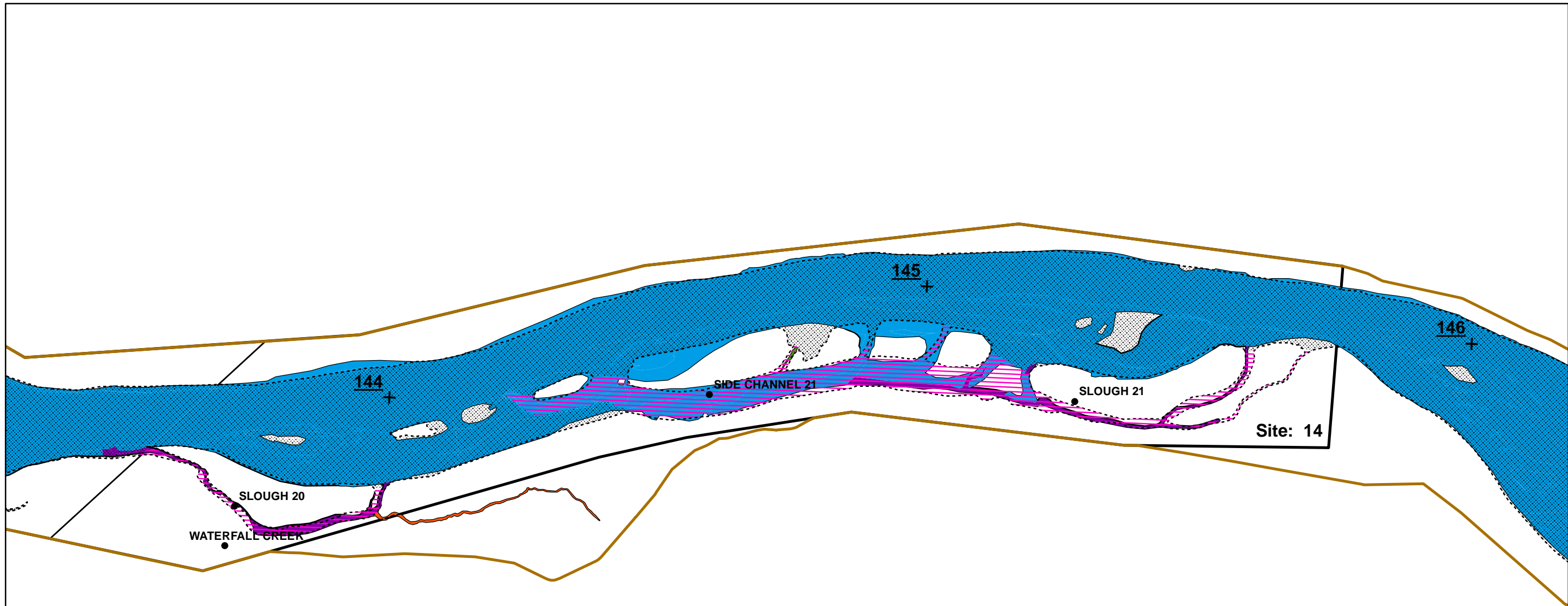
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Sheet 17 of 31

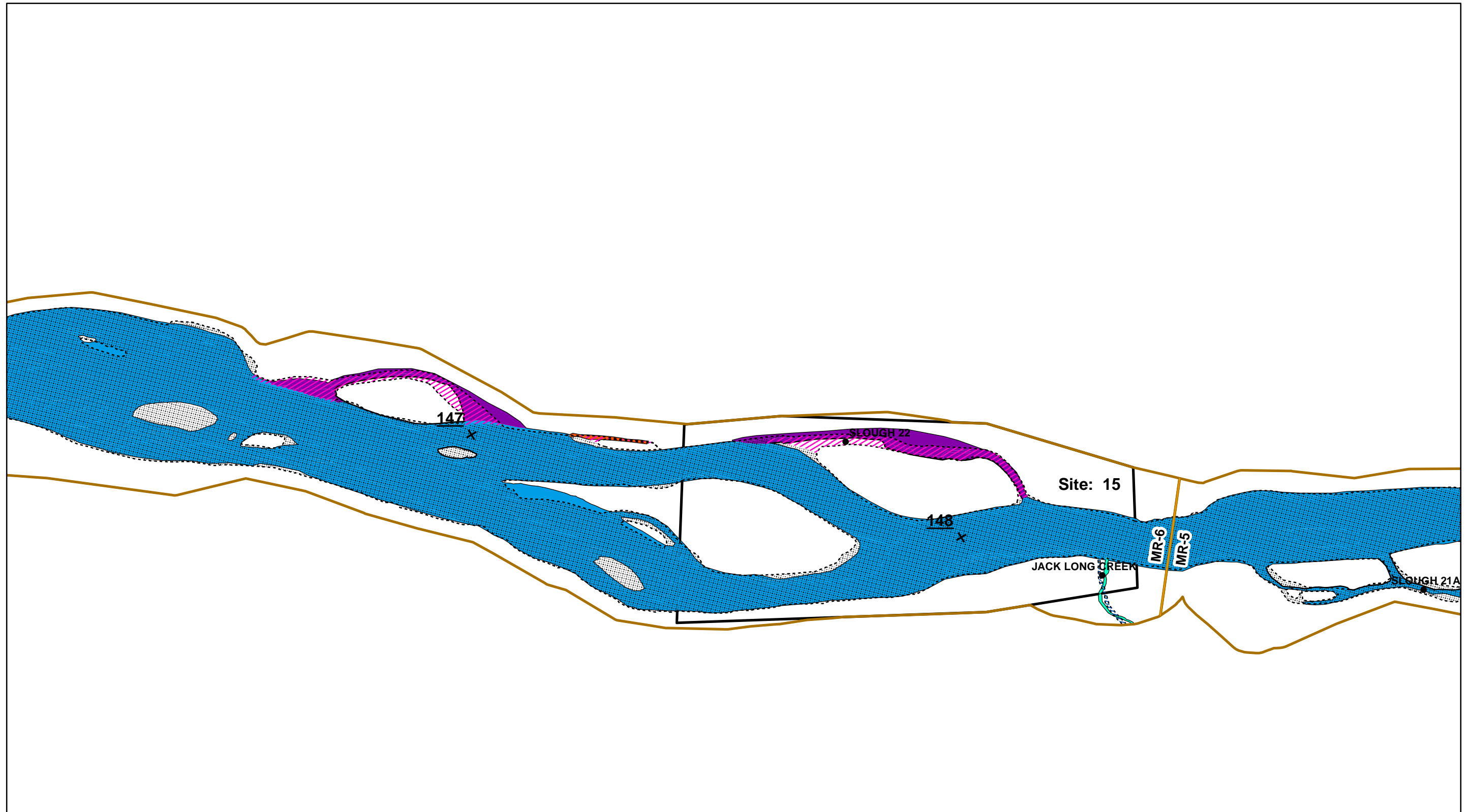
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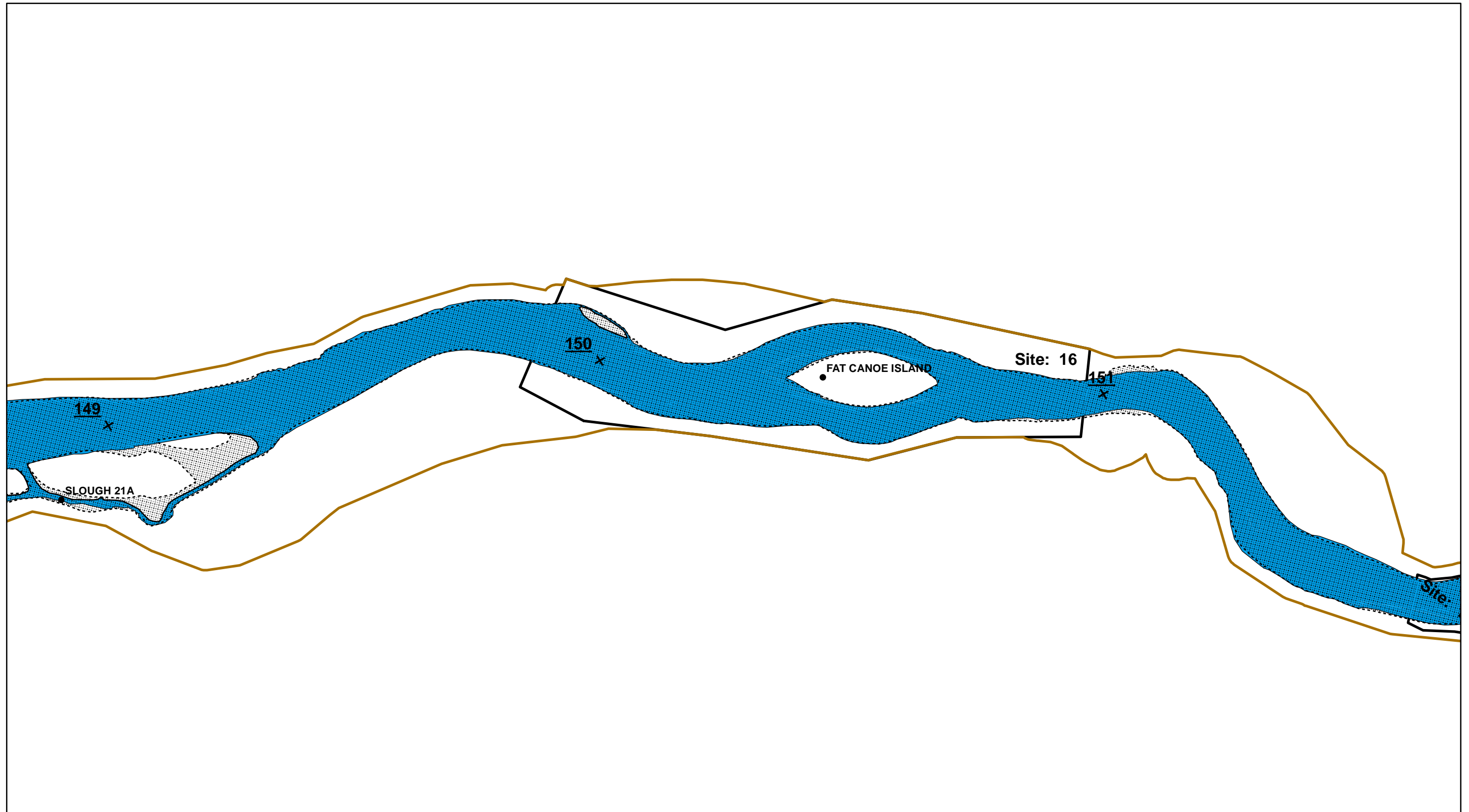
1 inch = 1,000 feet
Sheet 18 of 31

**MIDDLE SUSITNA RIVER SEGMENT
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Sheet 19 of 31

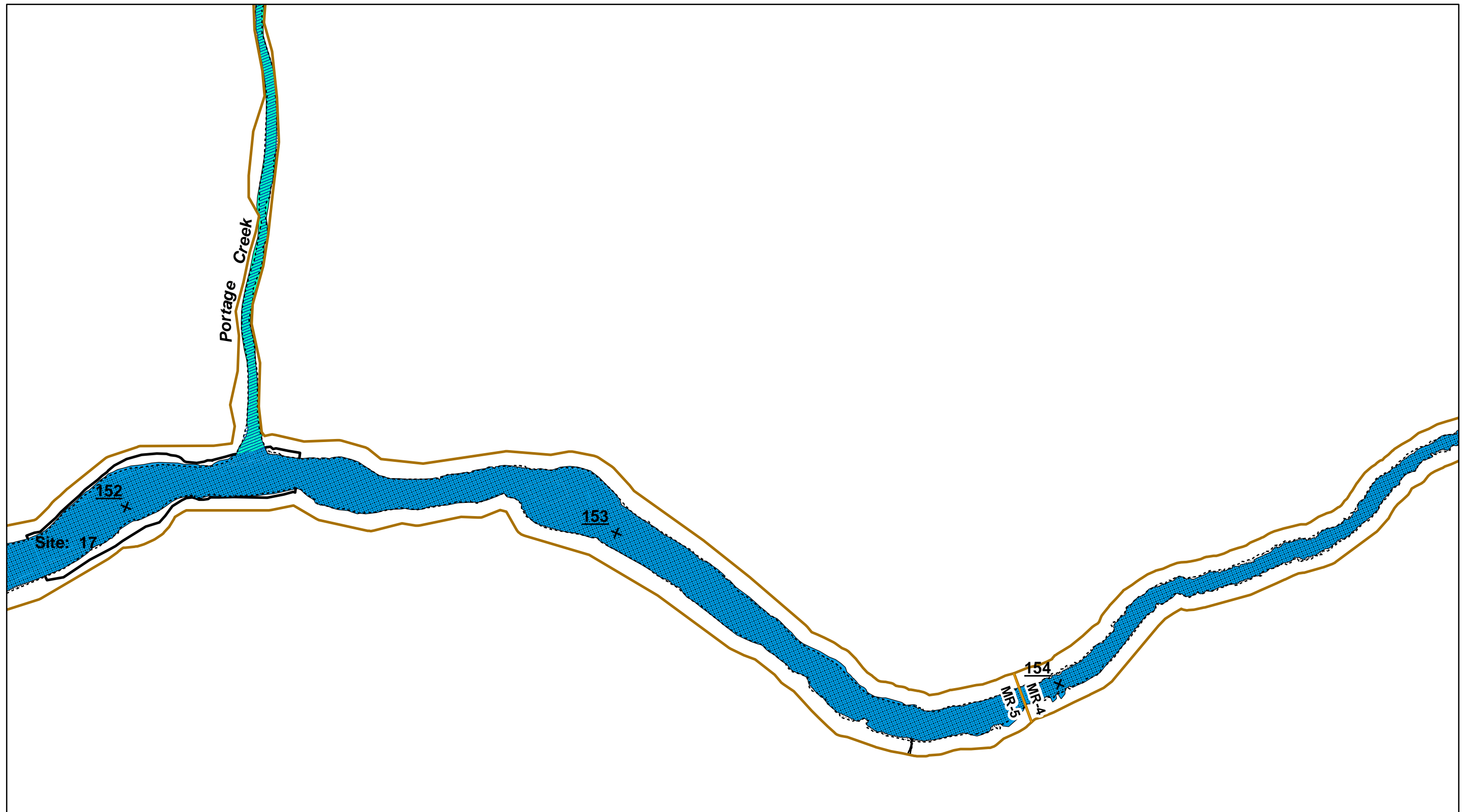
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See index page for legend and additional data information.



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Sheet 20 of 31

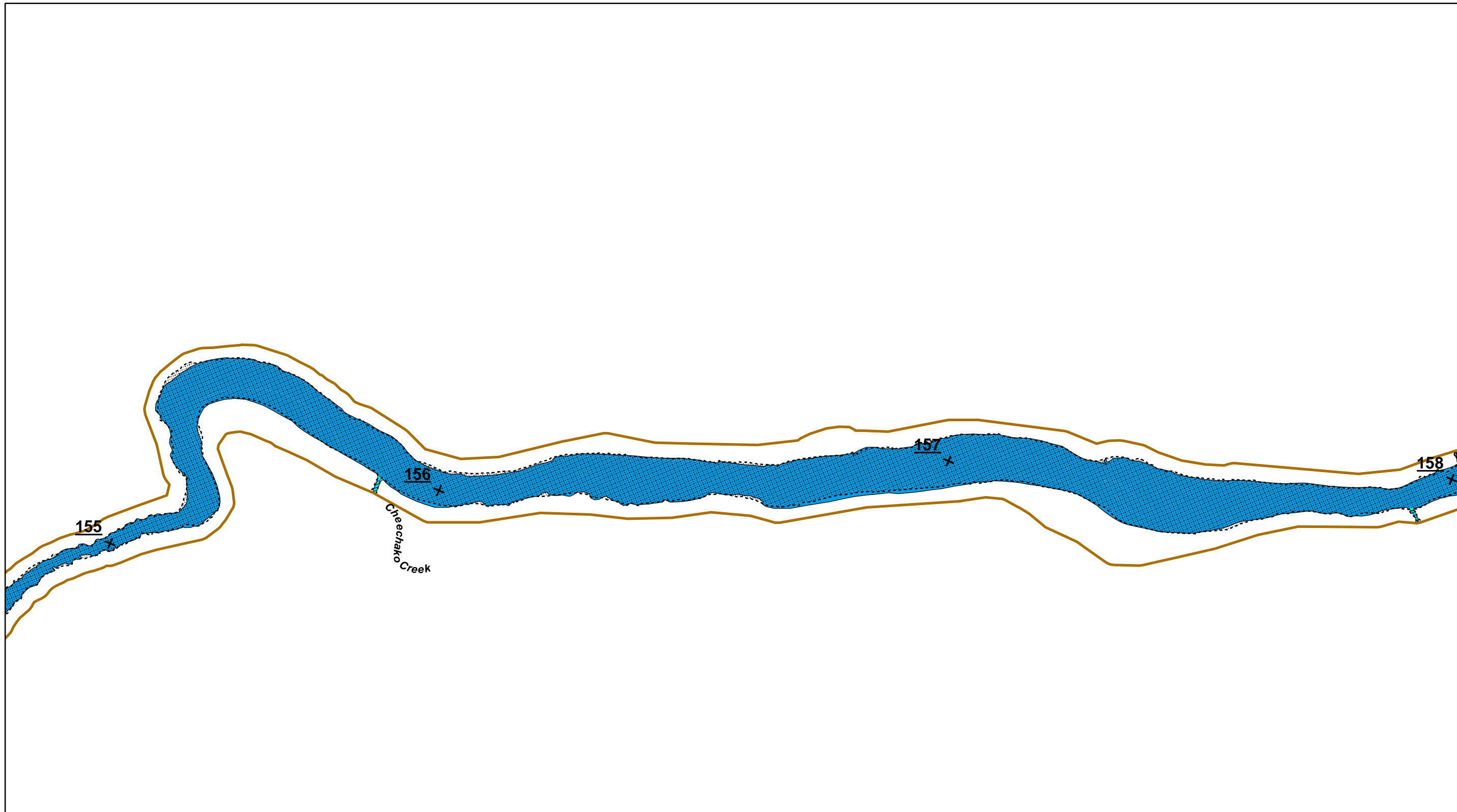
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Sheet 21 of 31

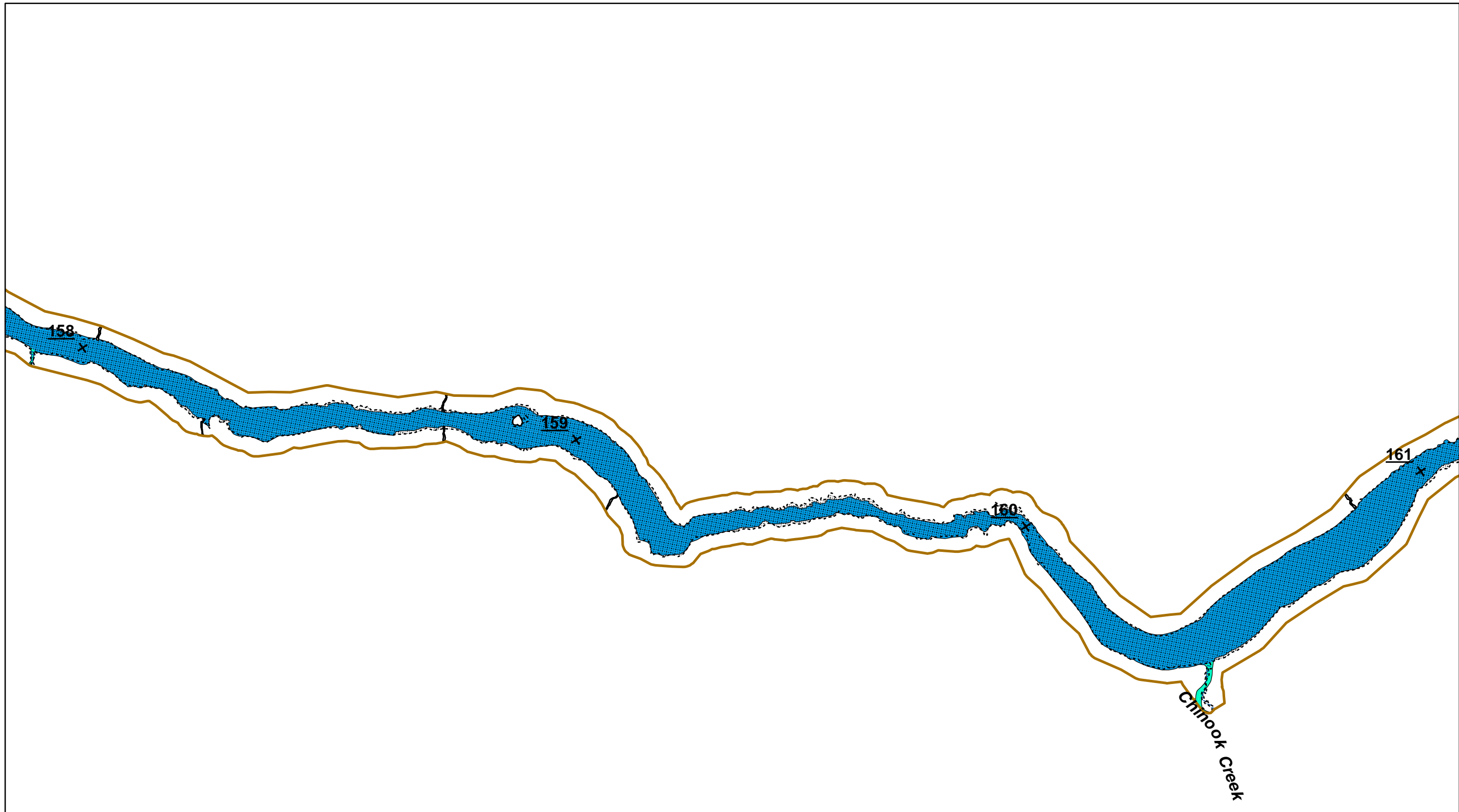
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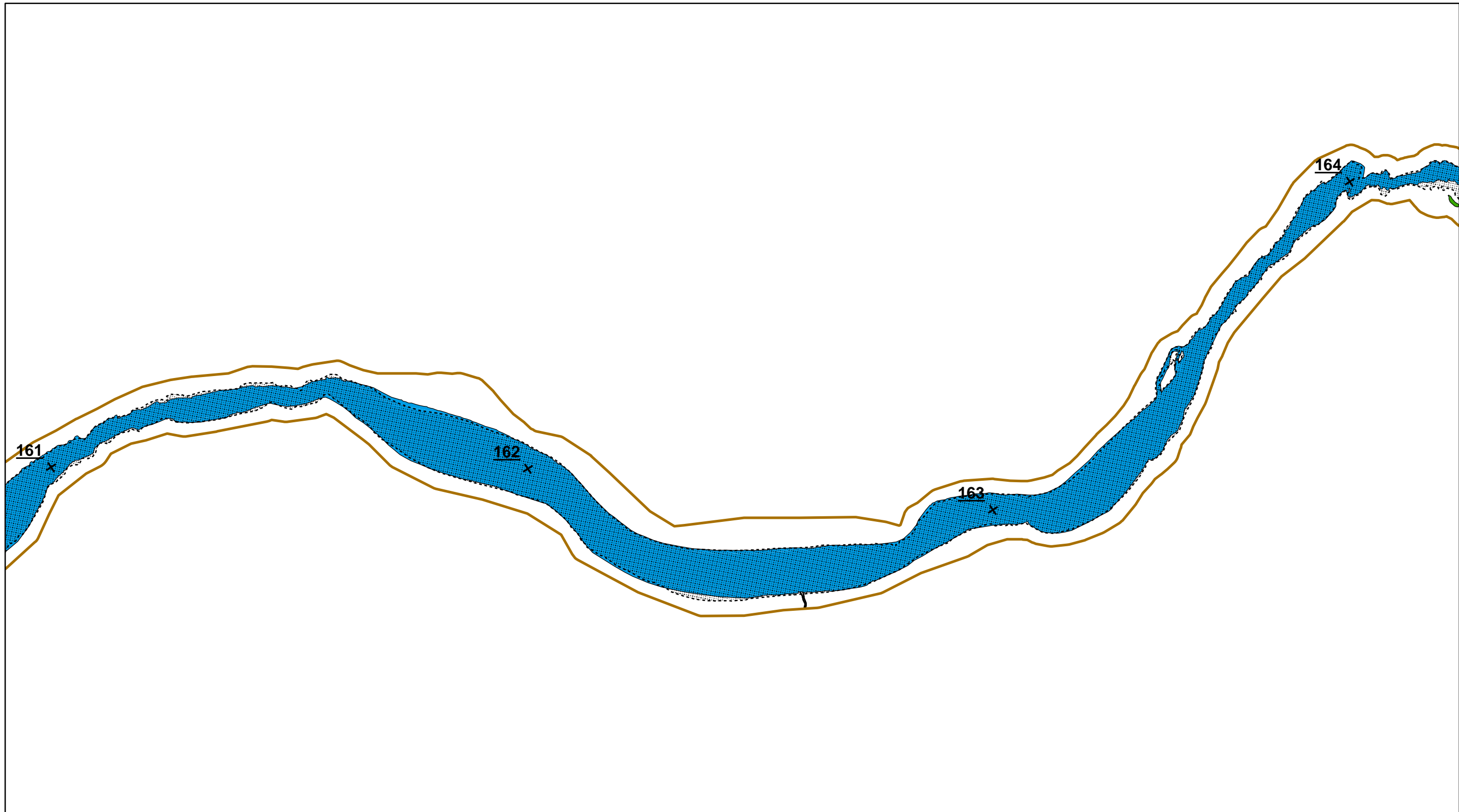
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Sheet 23 of 31

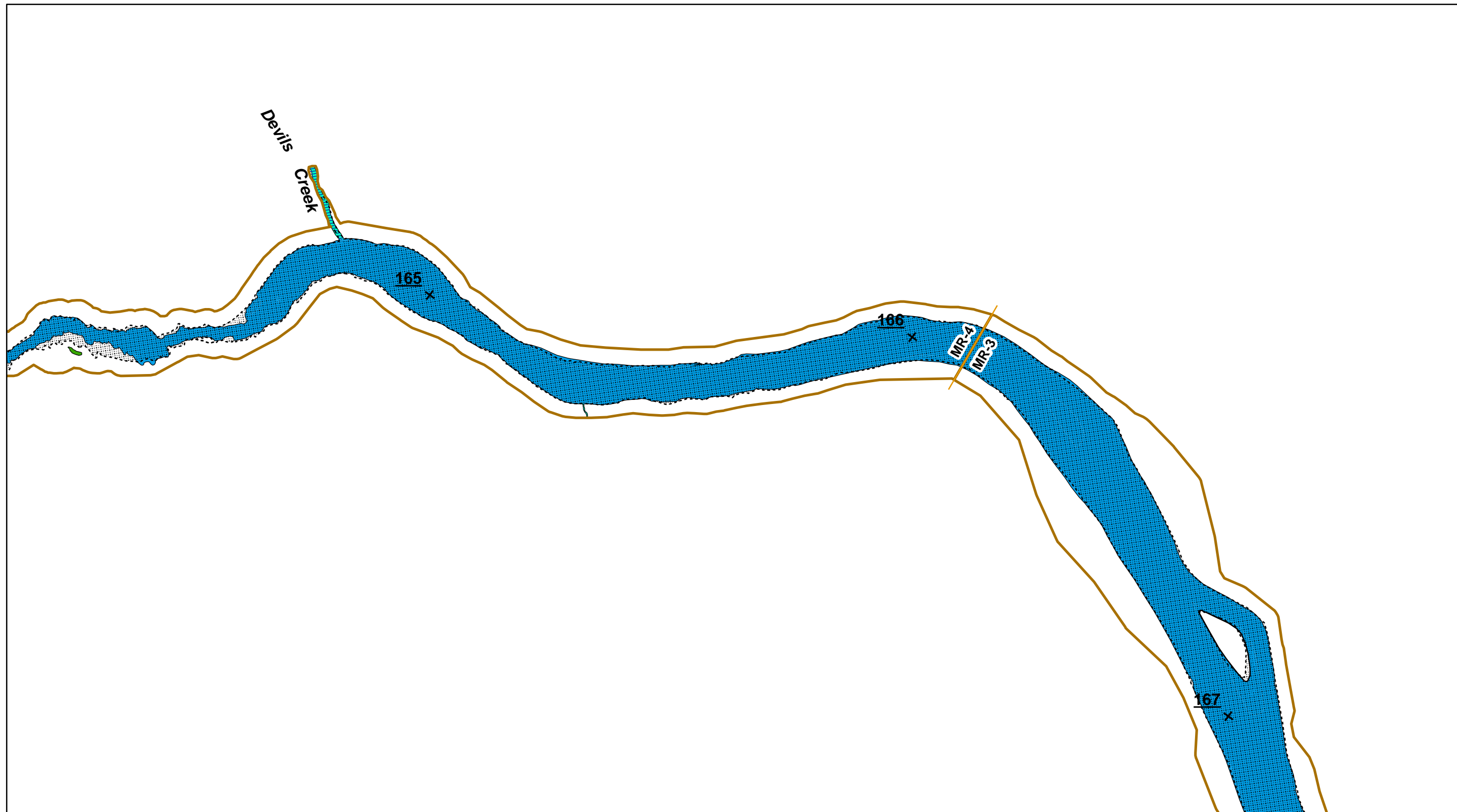
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Sheet 24 of 31

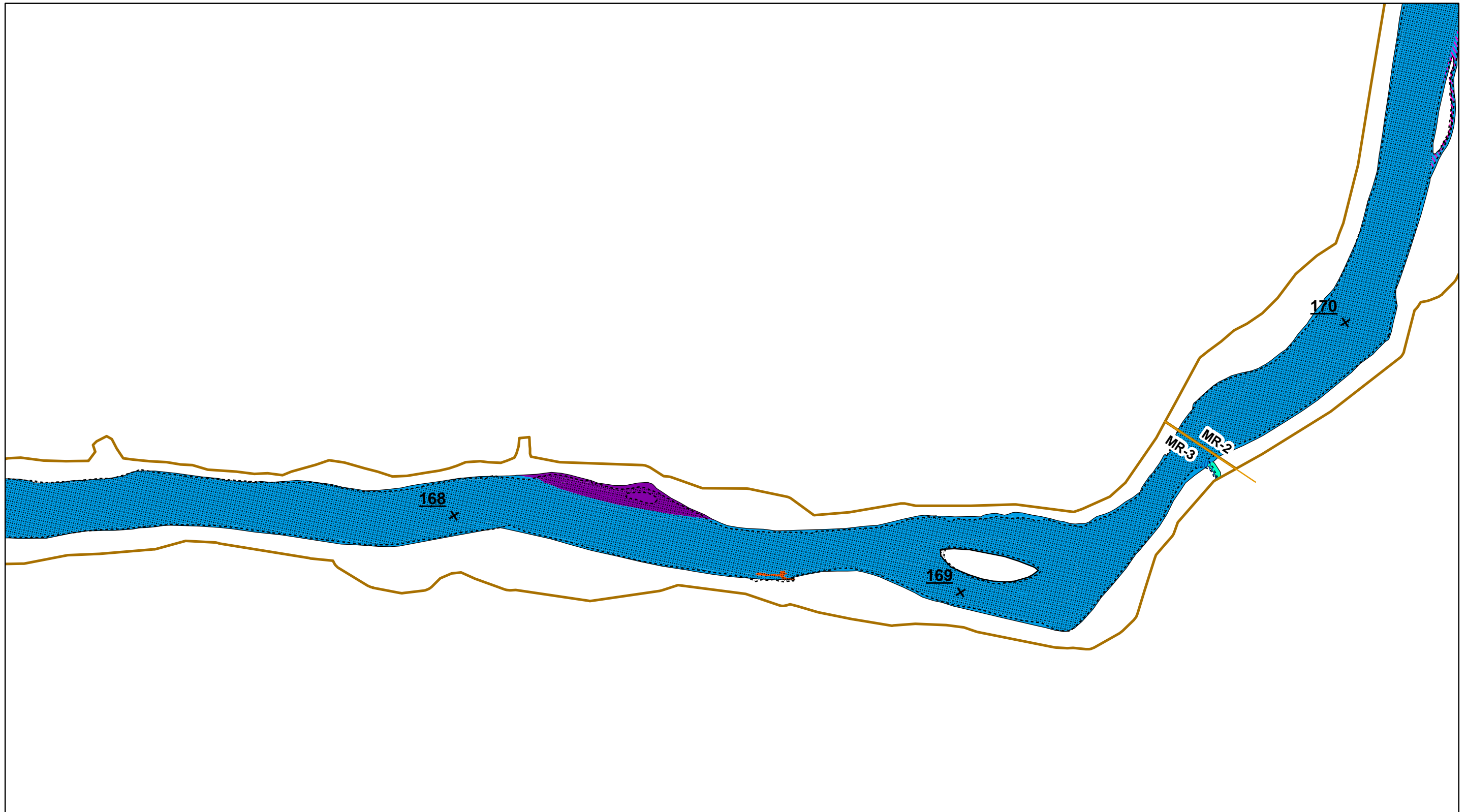
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Sheet 25 of 31

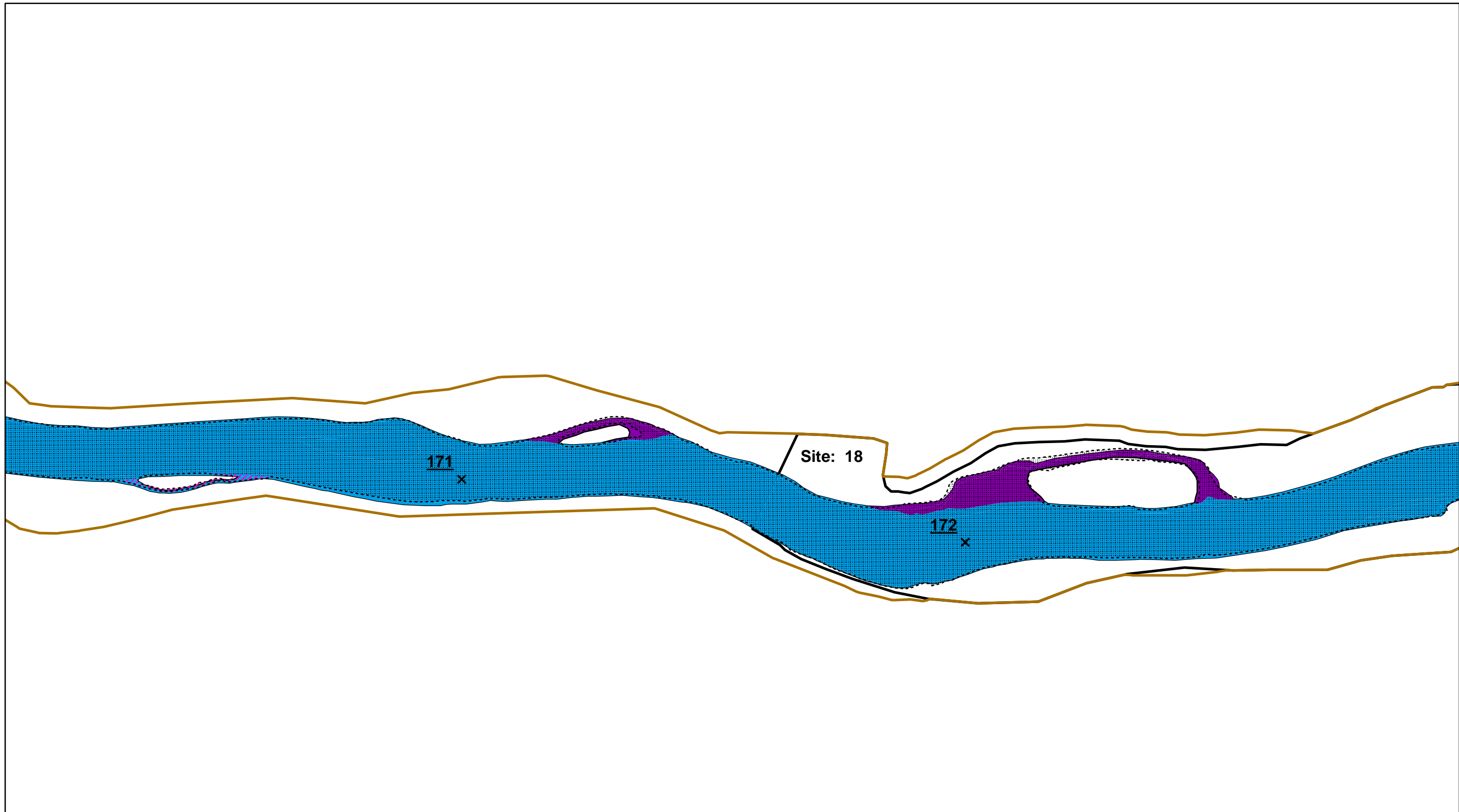
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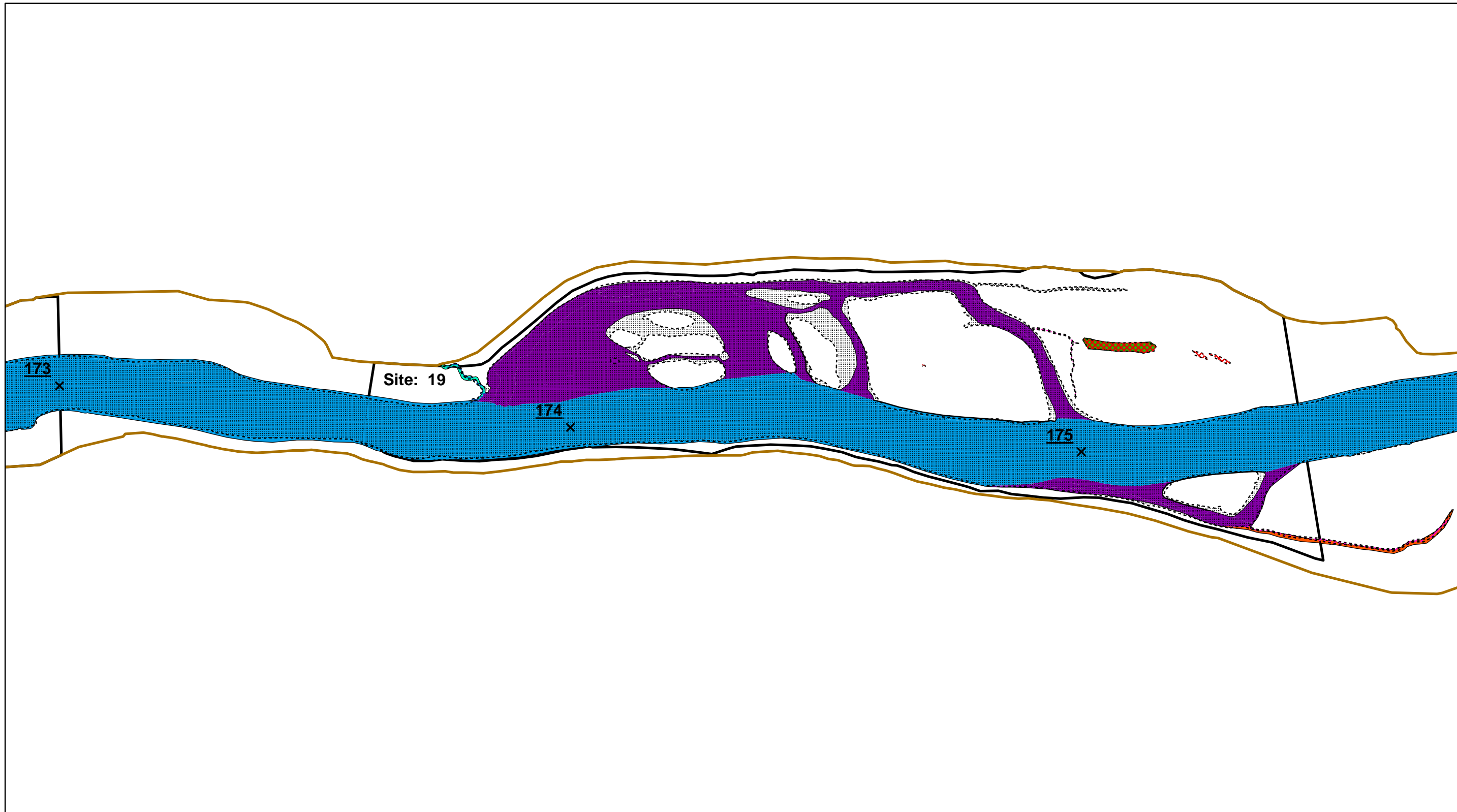
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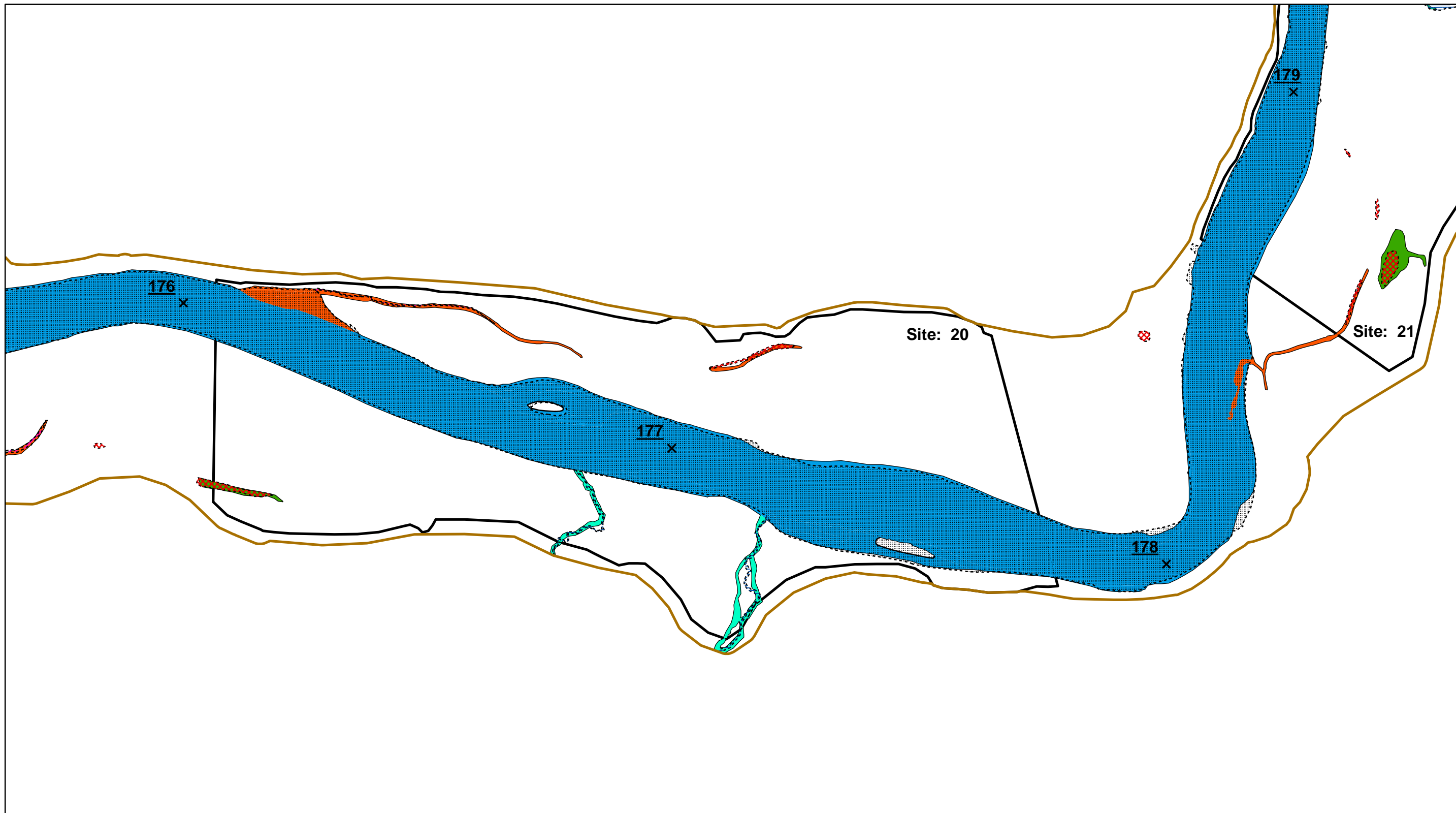
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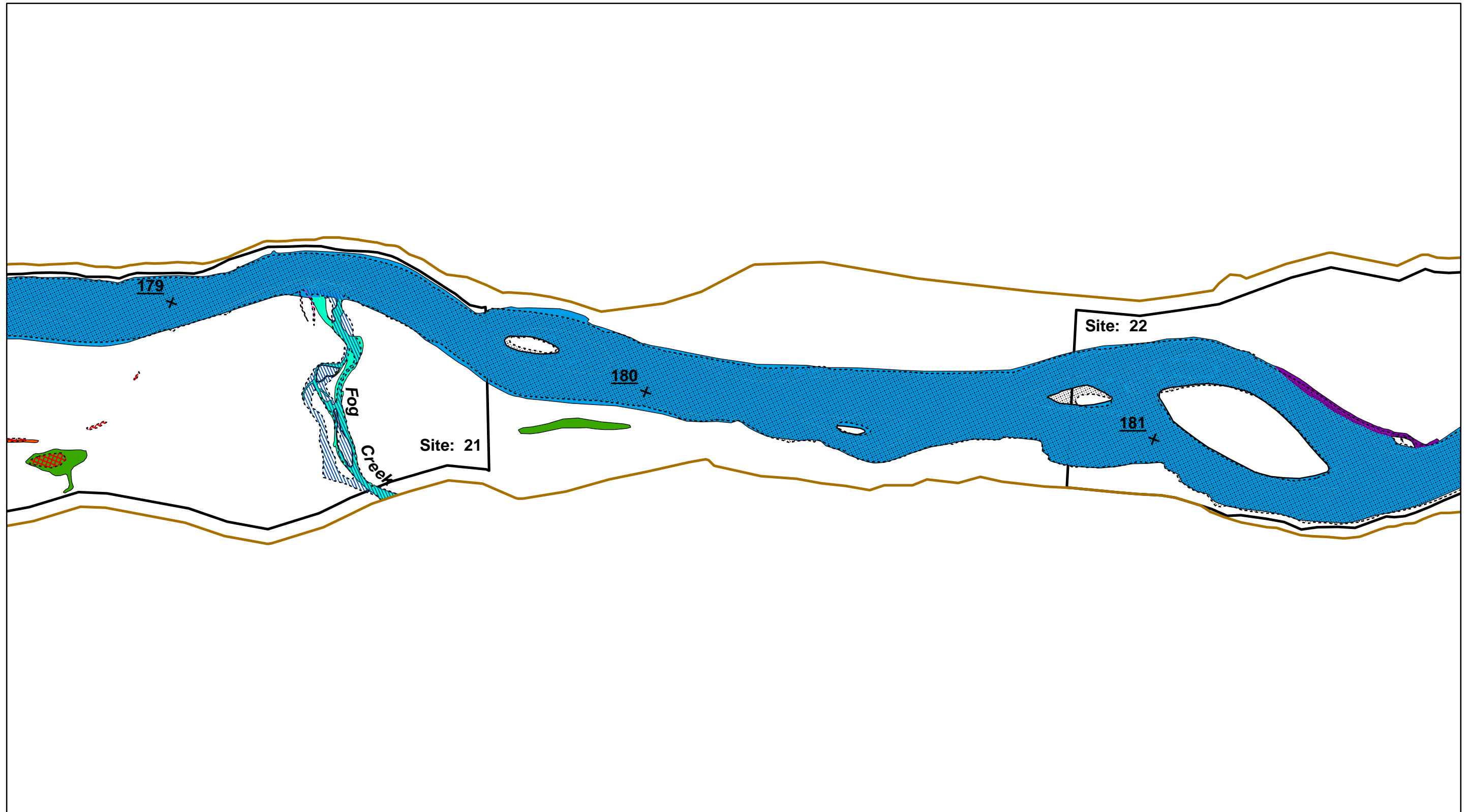


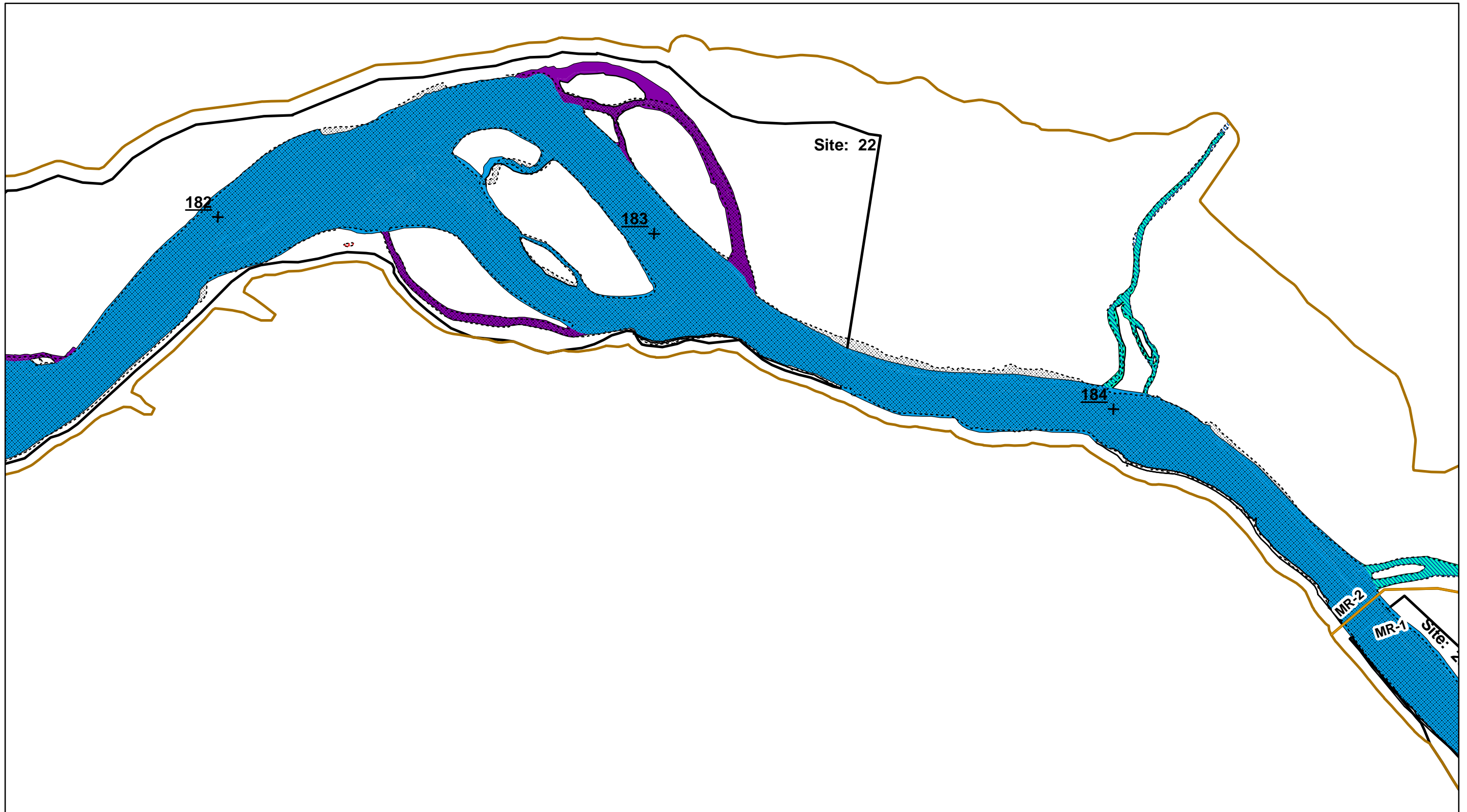
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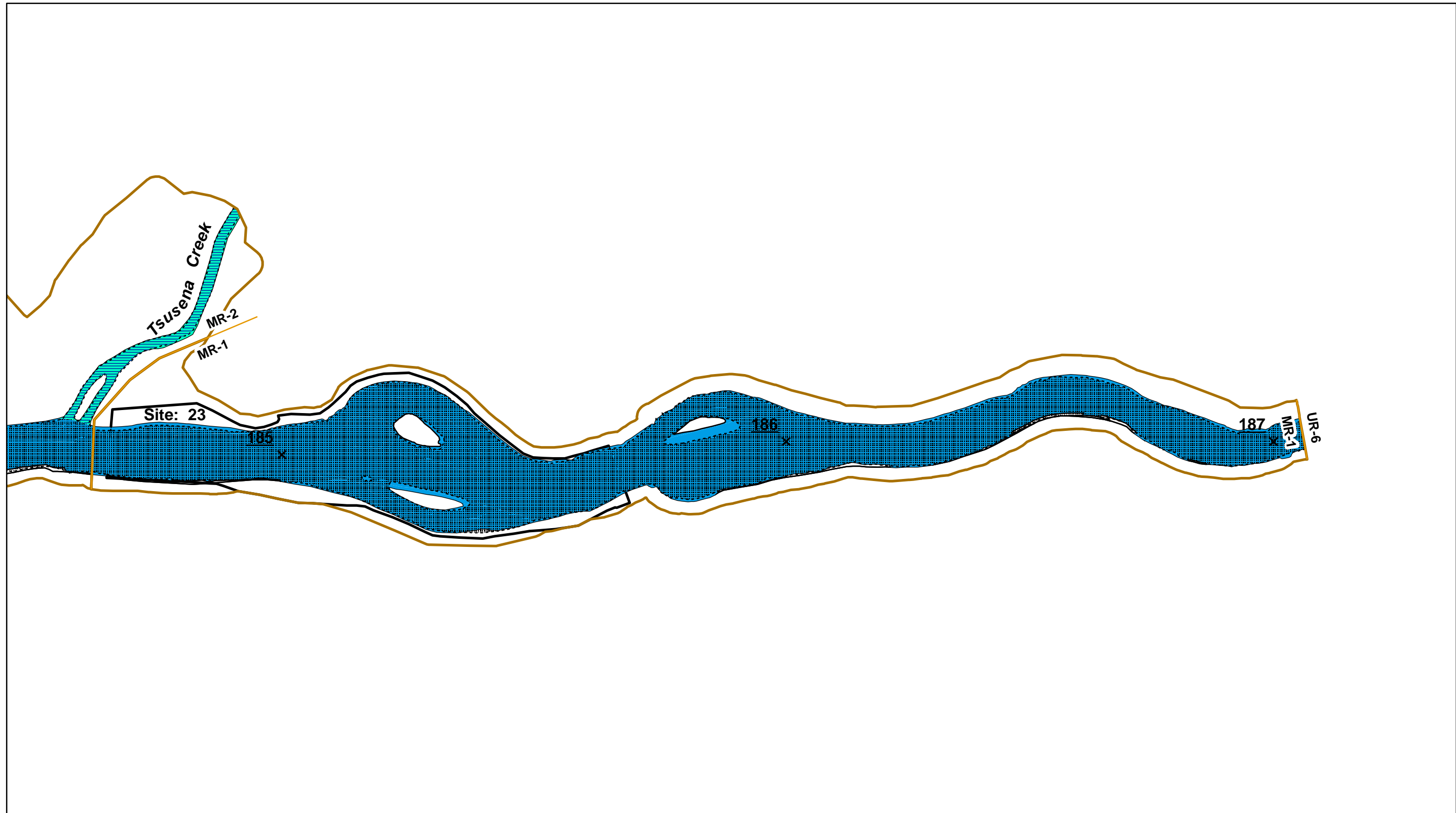












0 1,000 2,000 Feet

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Sheet 31 of 31

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