APPENDIX A. 1950s MIDDLE 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

SUSITNA-WATANA HYDRO
*Clean, reliable energy for the next 100 years.*

Prepared by

Tetra Tech Inc.

September 2014

150°W
149°30'W
149°W
148°30'W
62°50'N
62°40'N
62°30'N
62°20'N

Indian River
Portage Creek
Devil Creek
Tsusena Creek
Susitna River
Chulitna River
Talkeetna River

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# MIDDLE SUSITNA RIVER SEGMENT 1950s GEOMORPHIC FEATURES

## Legend

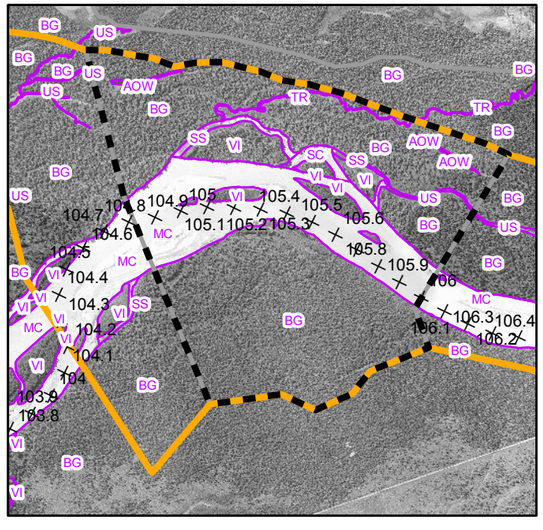
- Proposed Watana Dam Site
- Sheet Extents
- Roads
- Railroads
- Rivers and Streams
- Waterbodies

Data Sources: See Map References

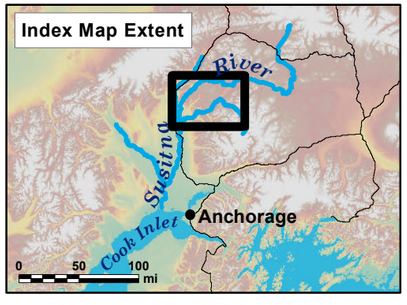
## Legend For Individual Mapbook Pages

- Project River Miles
- Geomorphic Reach Breaks
- Geomorphic Assessment Area Extents
- Focus Area Extents
- Analysis Extent Boundary
- 1950s Geomorphic Features

## Example Mapbook Page Data

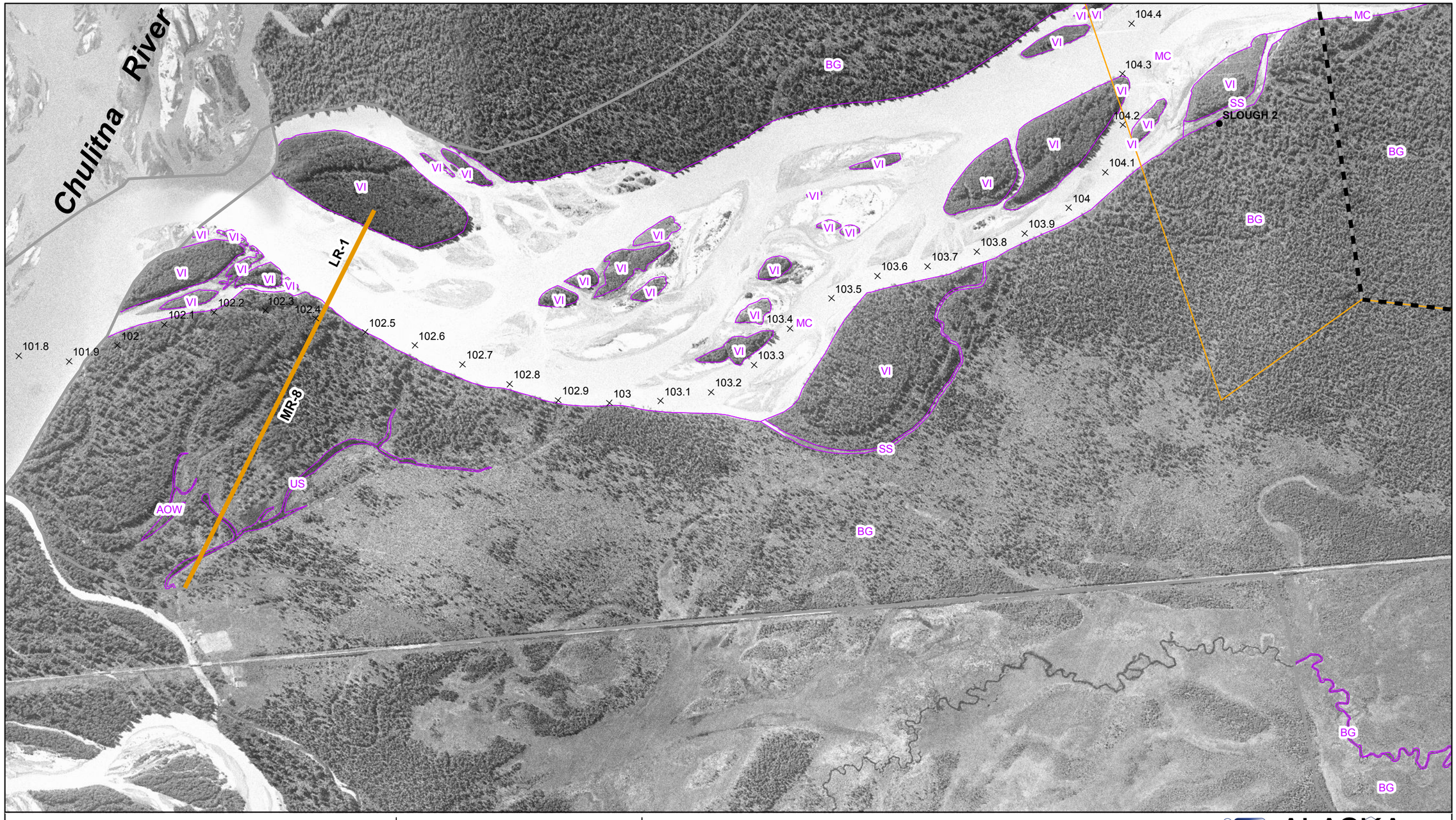



Index Map Extent




0 5 10 mi

Projection: NAD83 State Plane Alaska 4 FIPS 5004 (ft)
Date Created: 8/21/2014
Map Author: Tetra Tech
File: GeomFeat_1950s_MR_20131227_Cover.mxd




0 1,000 2,000 Feet

1 inch = 1,000 feet

See index page for legend and additional data information.

**Sheet 1 of 34**

**MIDDLE SUSITNA RIVER SEGMENT**
**1950s GEOMORPHIC FEATURES**

| Location: | Imagery Date, | Discharge (Gold Creek) |
|---|---|---|
| **PRM 102.0 - 151.8** | 07/03/1951, | 19,000 cfs |

| Location: | Imagery Date, | Discharge (Gold Creek) |
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| **PRM 158.5 - 187.0** | 08/15/1949 | 25,800 cfs |

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Chulitna River

BG
US
BG
US
BG
US
BG
US
AOW
BG
TR
BG
SS
WHISKERS SLOUGH
VI
BG
US
US
BG
BG
WHISKERS WEST SIDE CHANNEL
104.7
104.8
104.9
105
VI
105.1
VI
105.2
104.6
MC
WHISKERS EAST SIDE CHANNEL
VI
104.5
MC
MC
VI
104.4
SS
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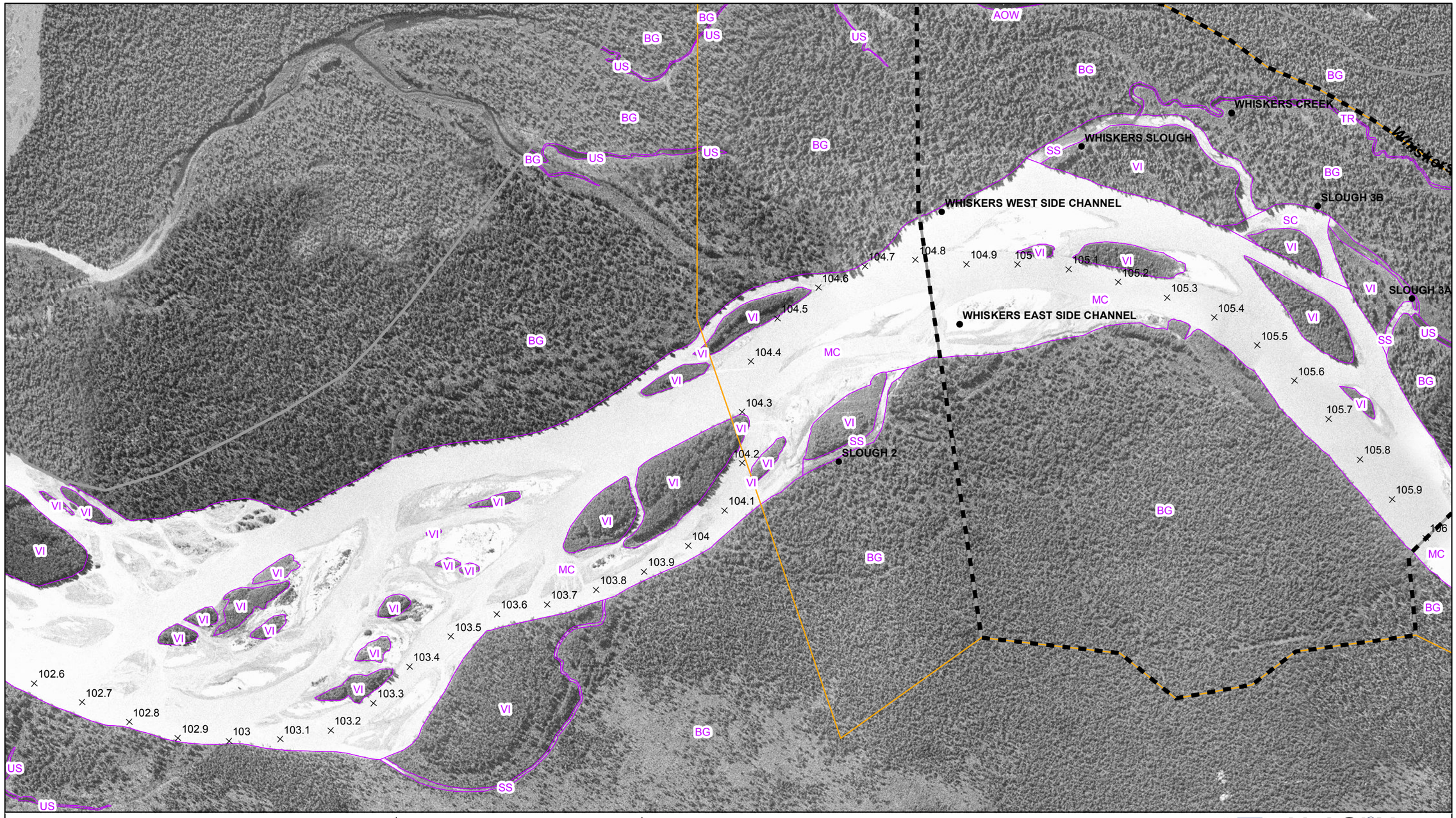
**Sheet 2 of 34**

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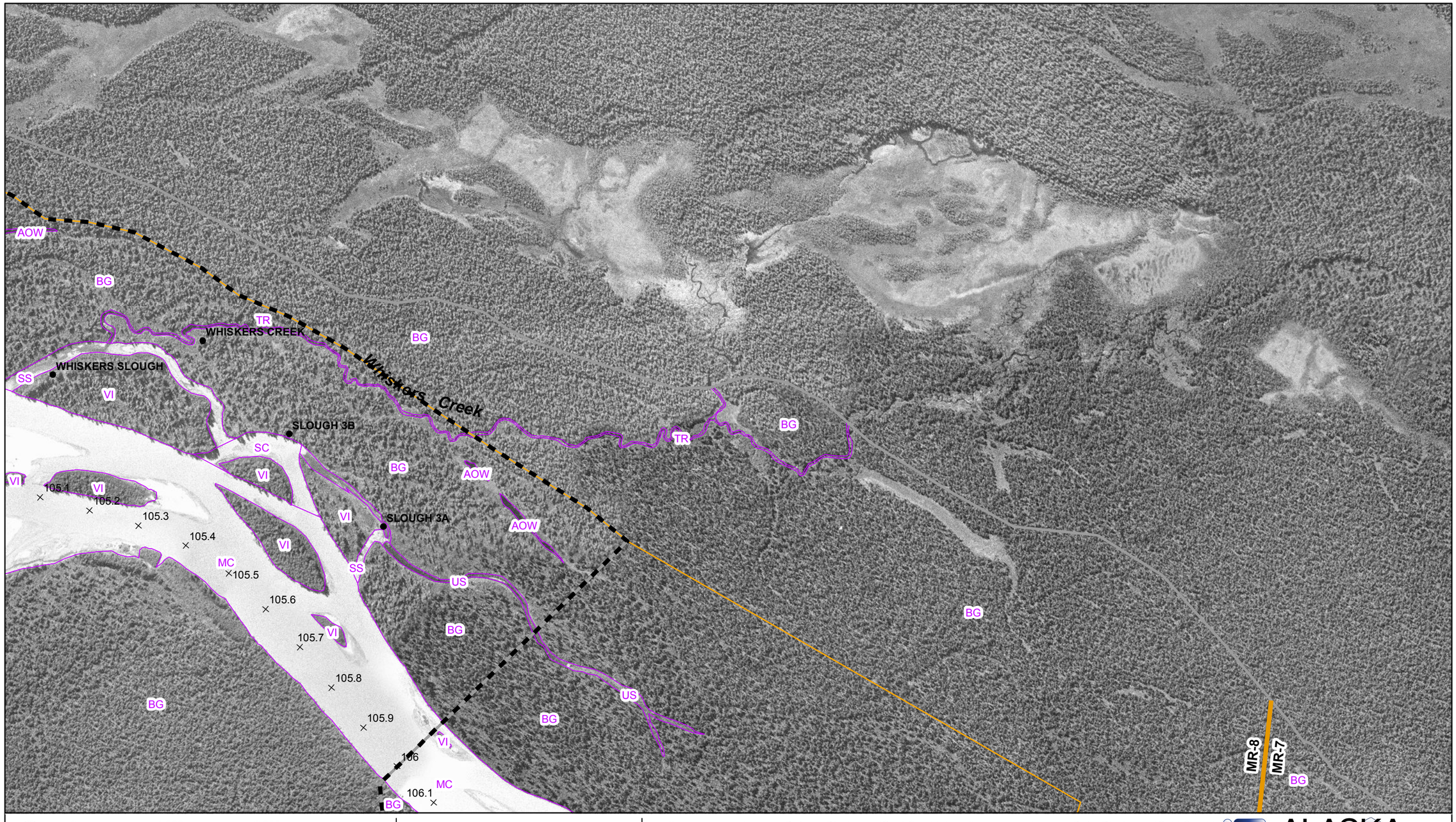
**Sheet 3 of 34**

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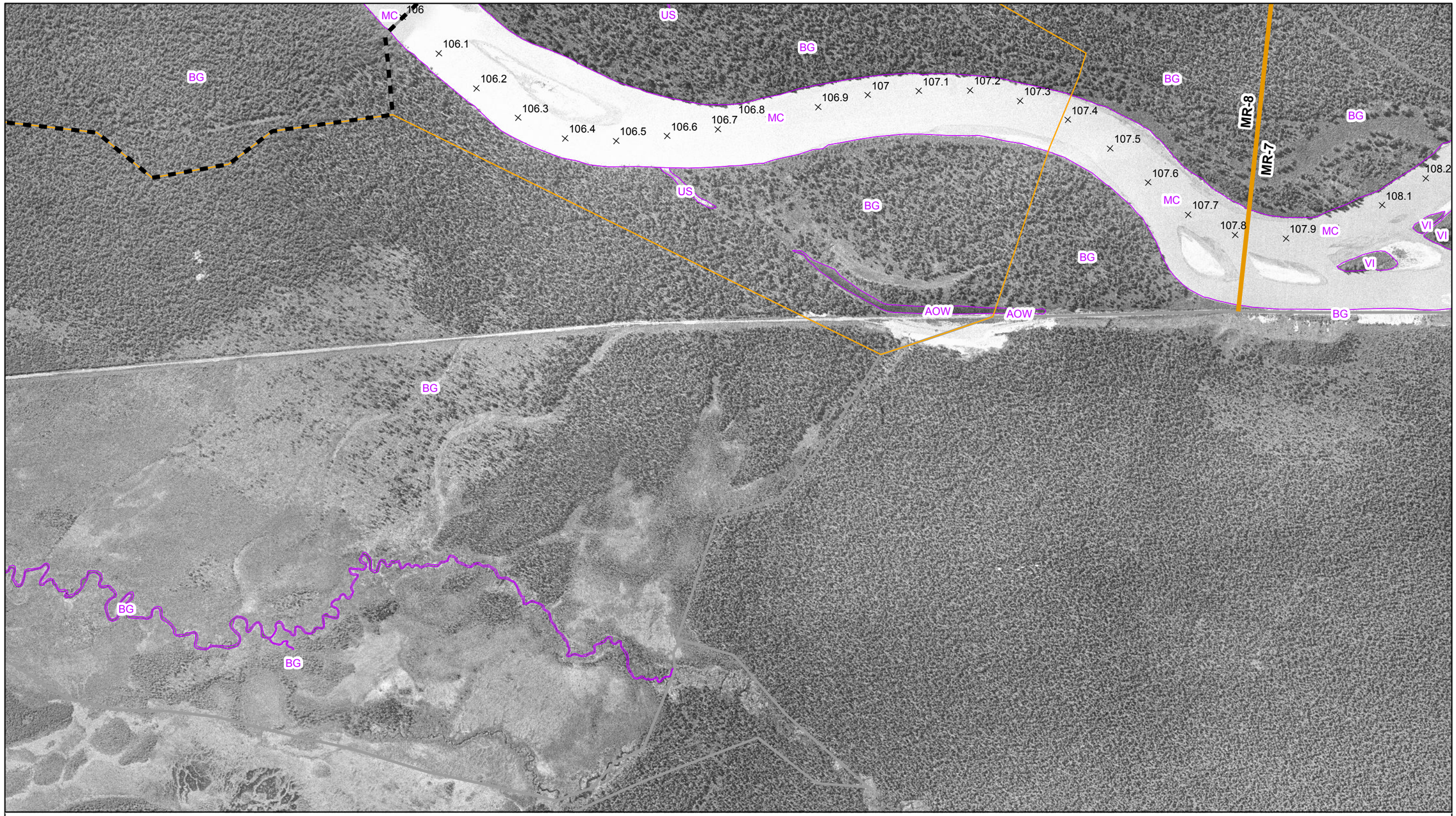
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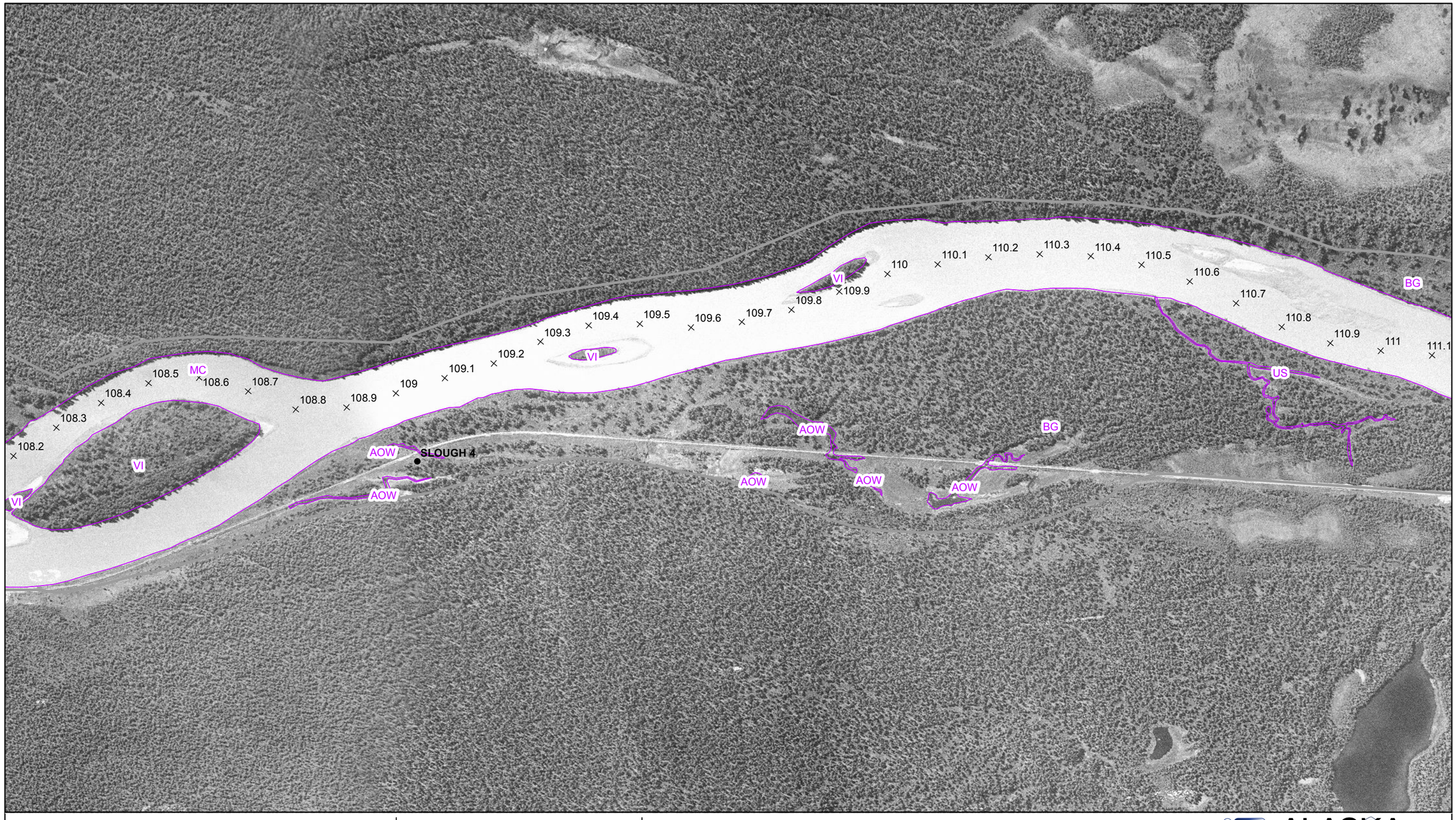
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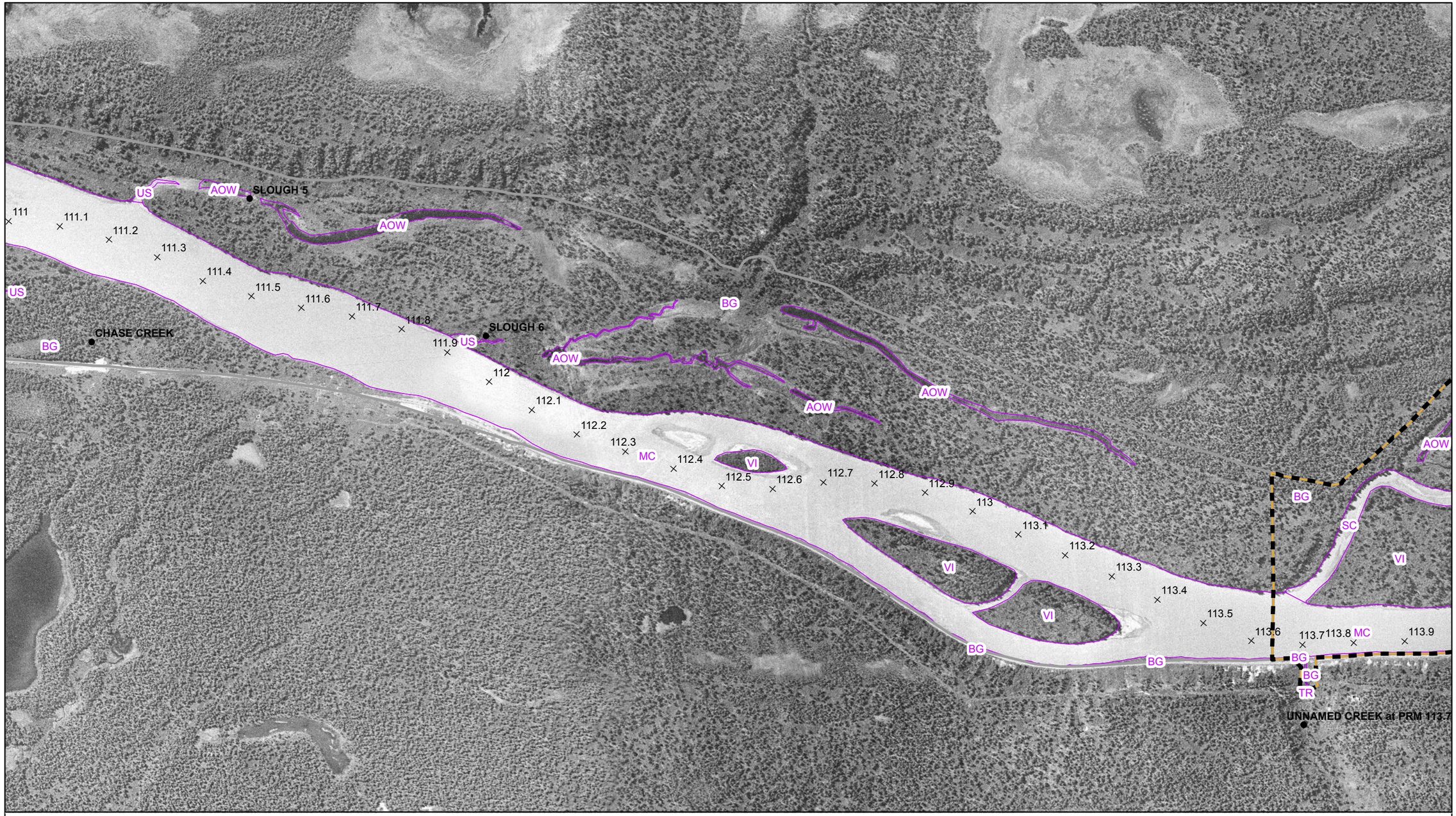
**Sheet 6 of 34**

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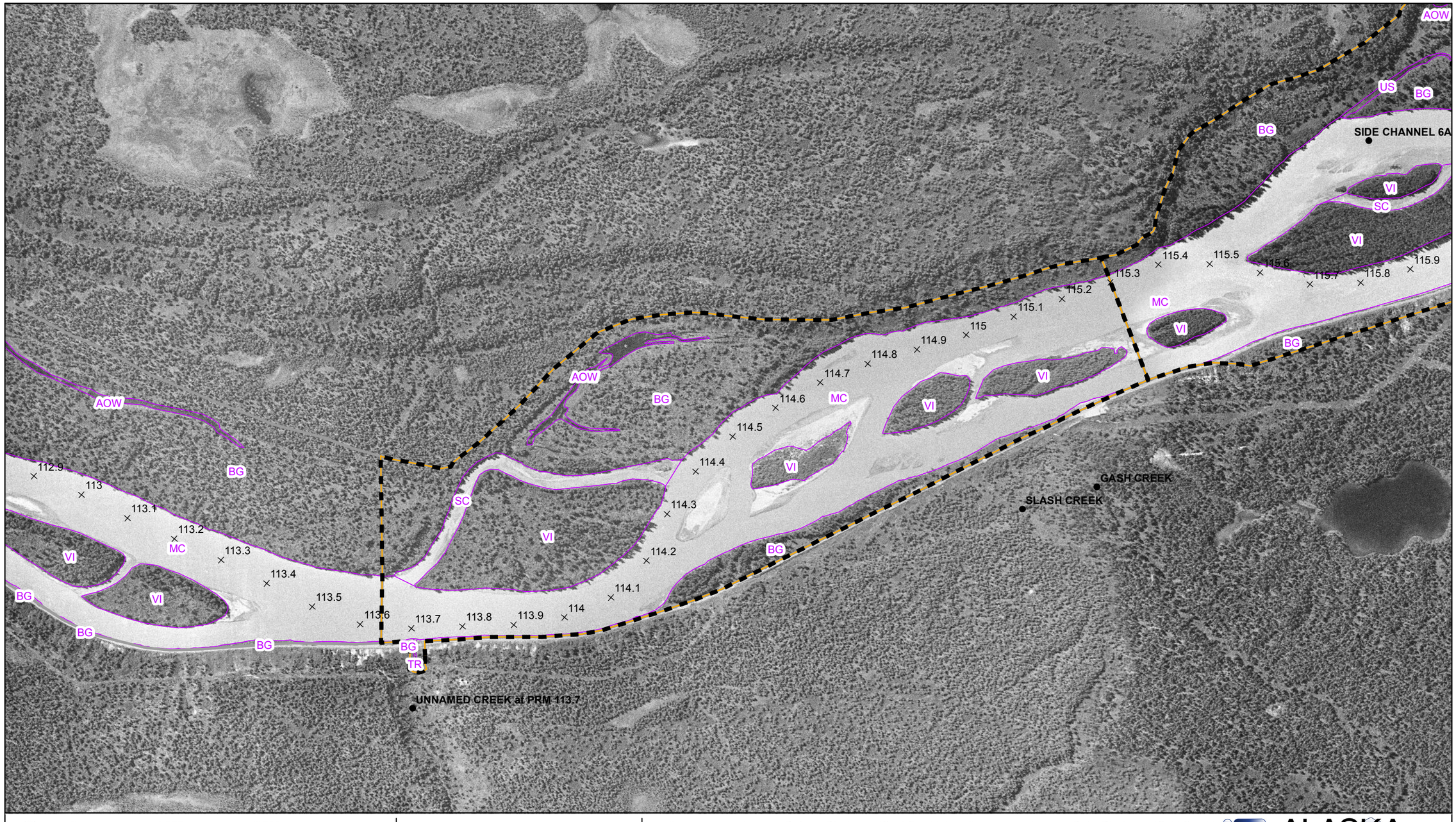
**Sheet 7 of 34**

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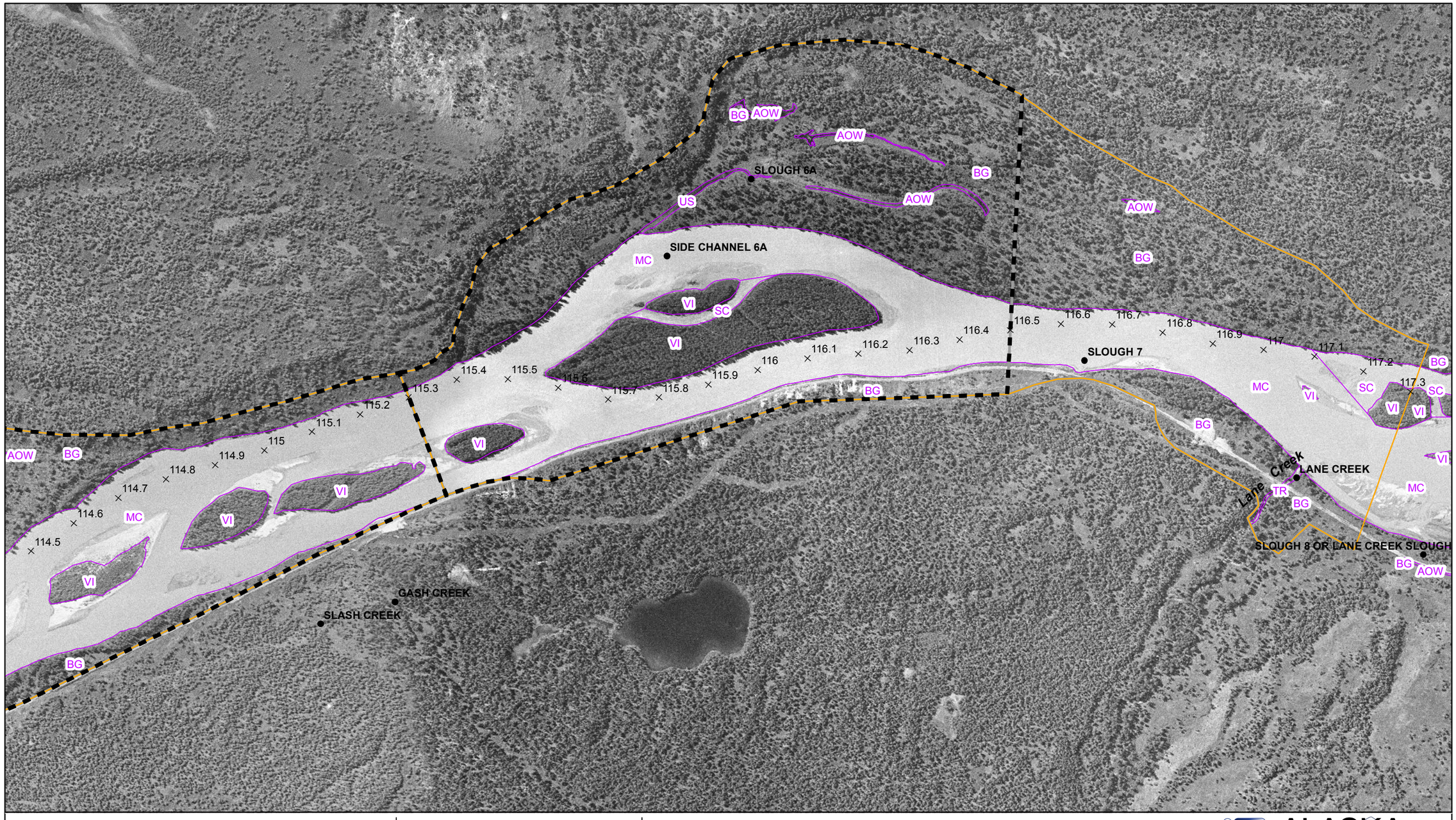
**Sheet 8 of 34**

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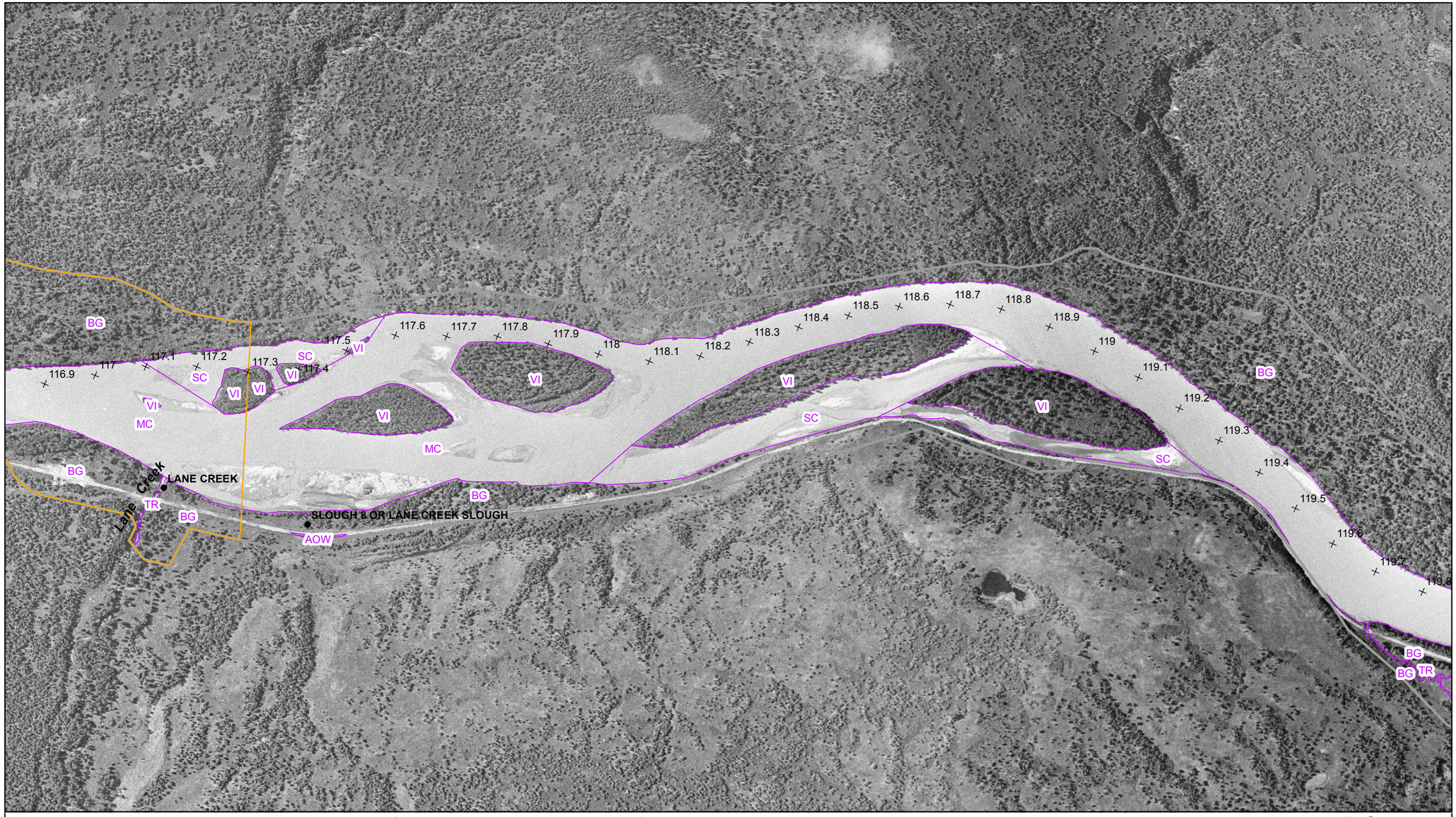
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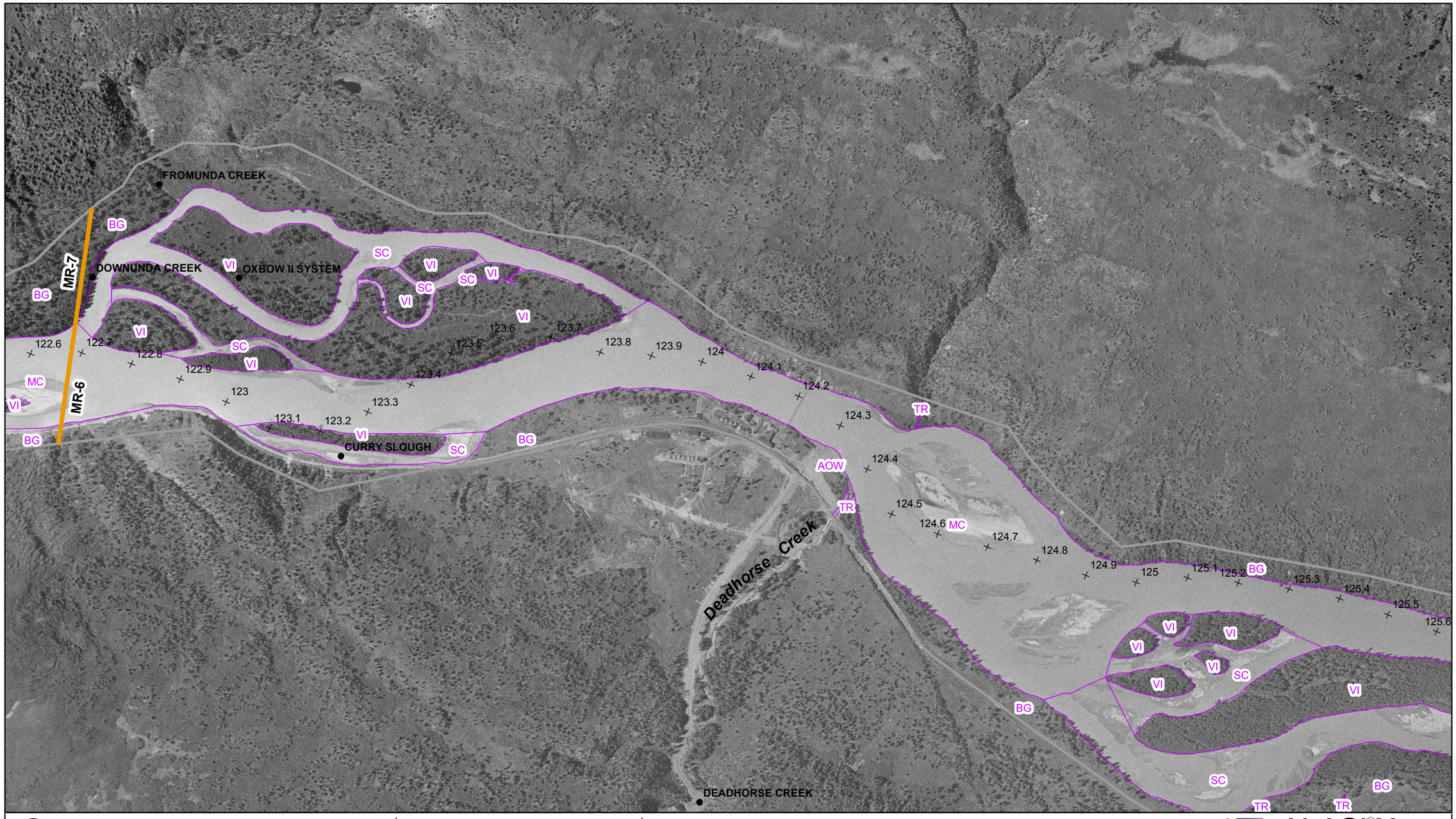
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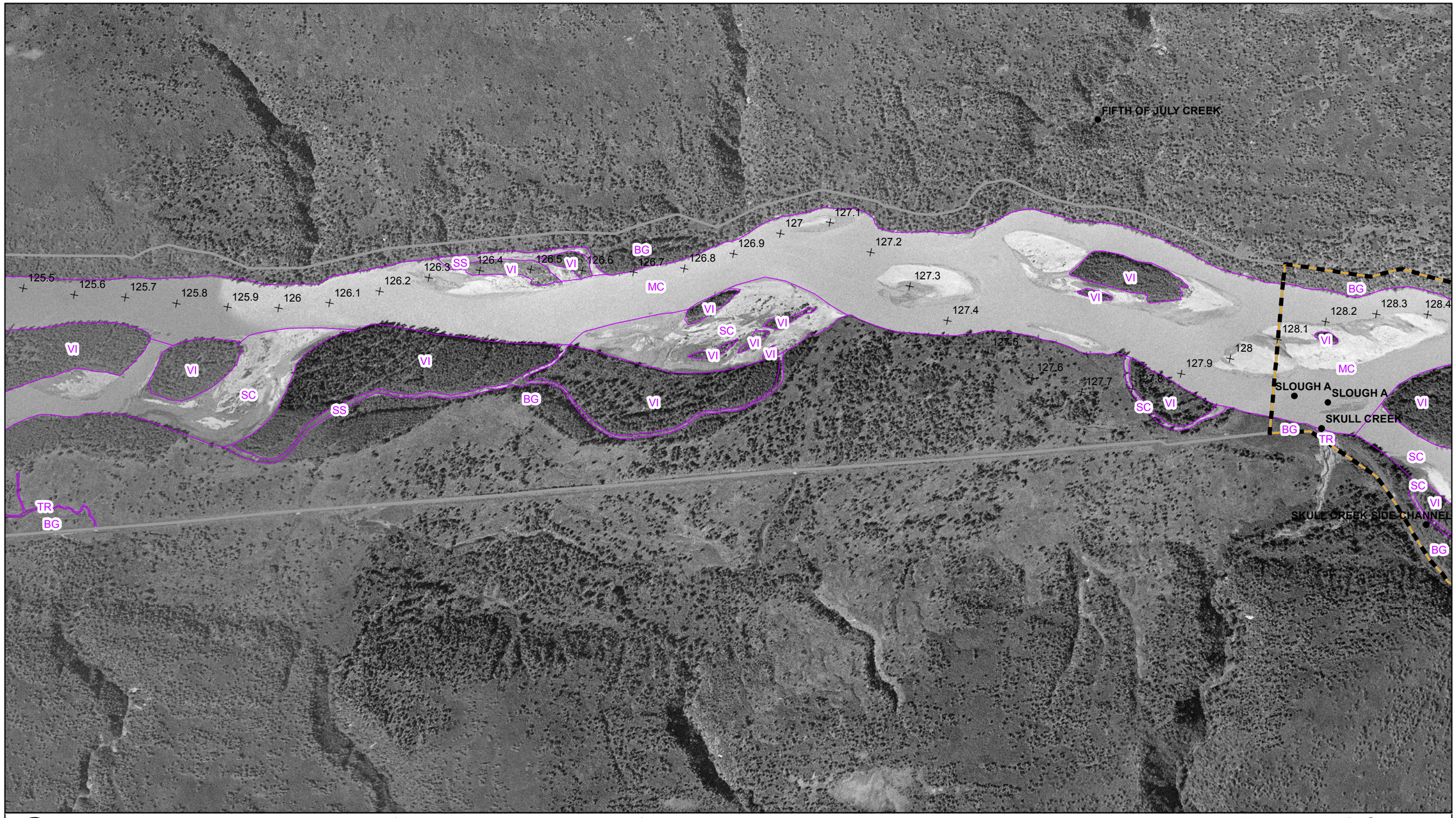
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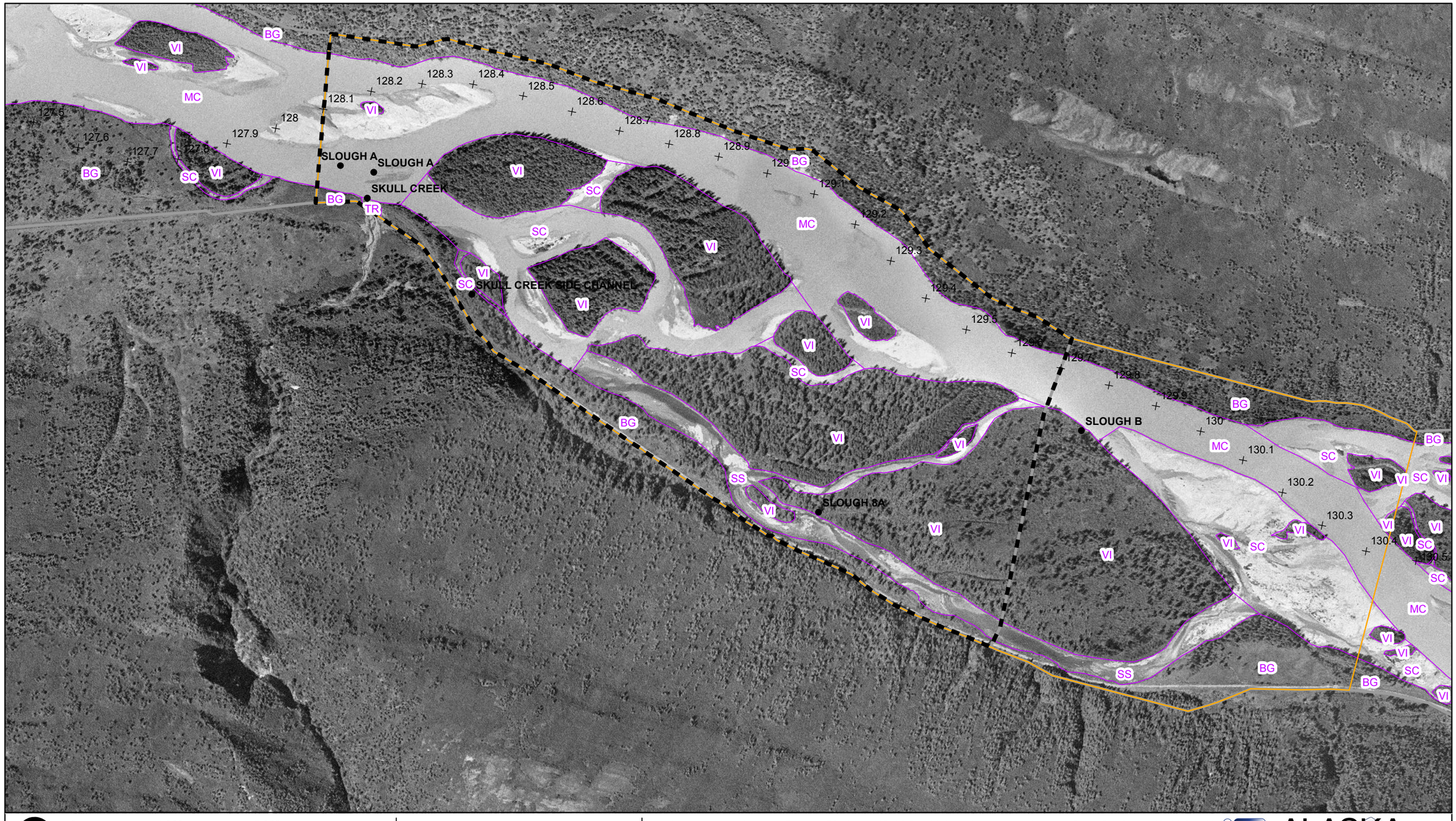
**Sheet 13 of 34**

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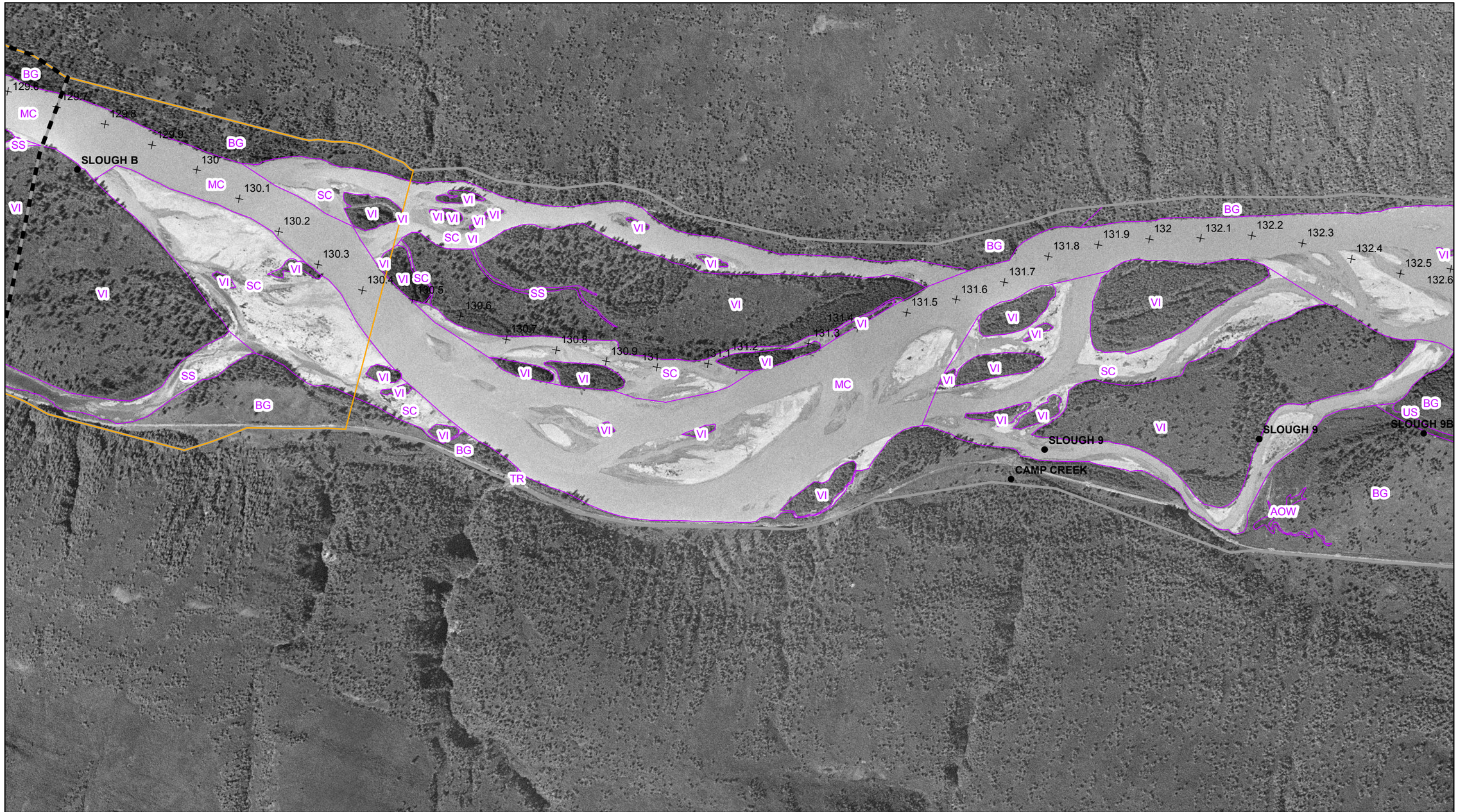
**Sheet 14 of 34**

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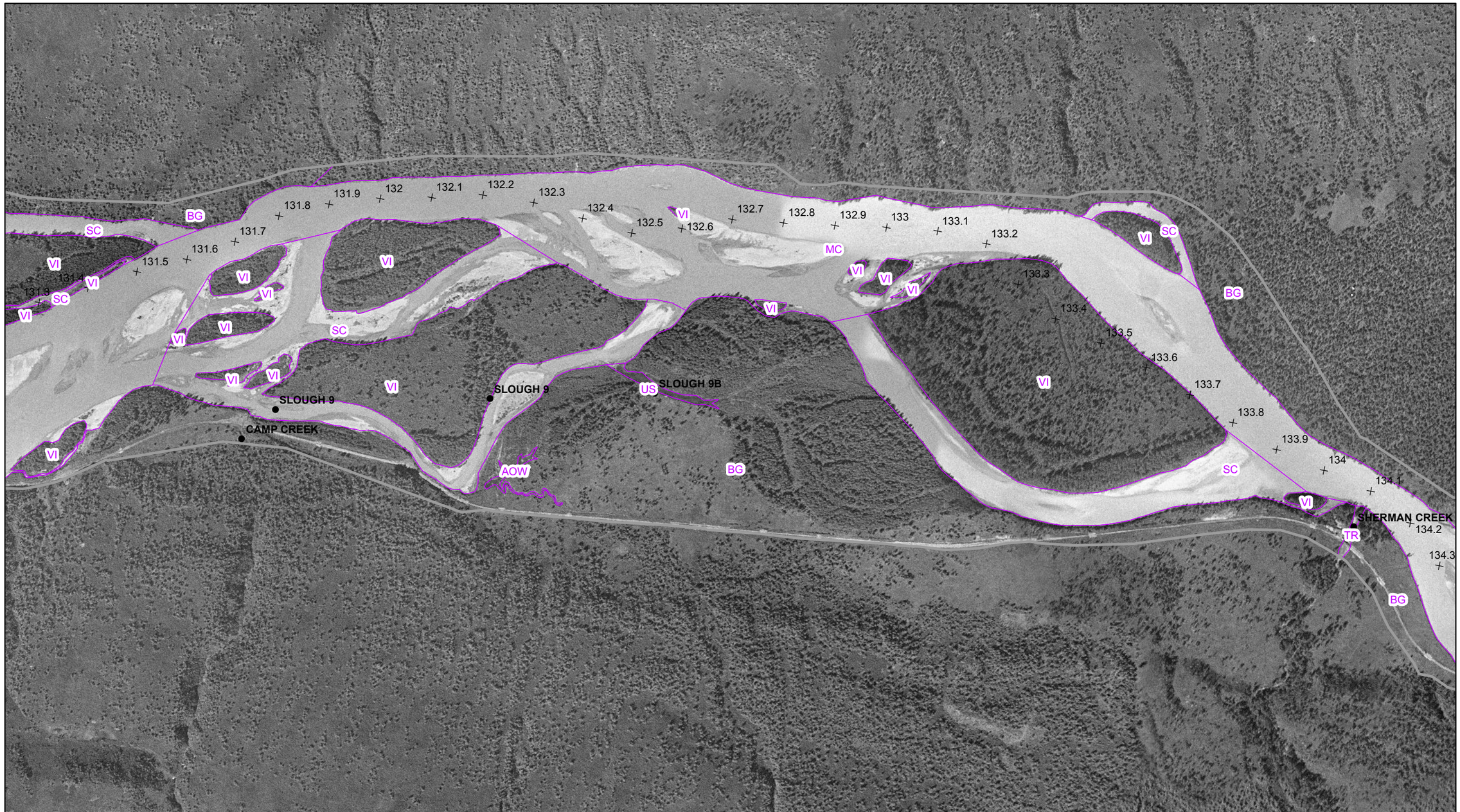
**Sheet 15 of 34**

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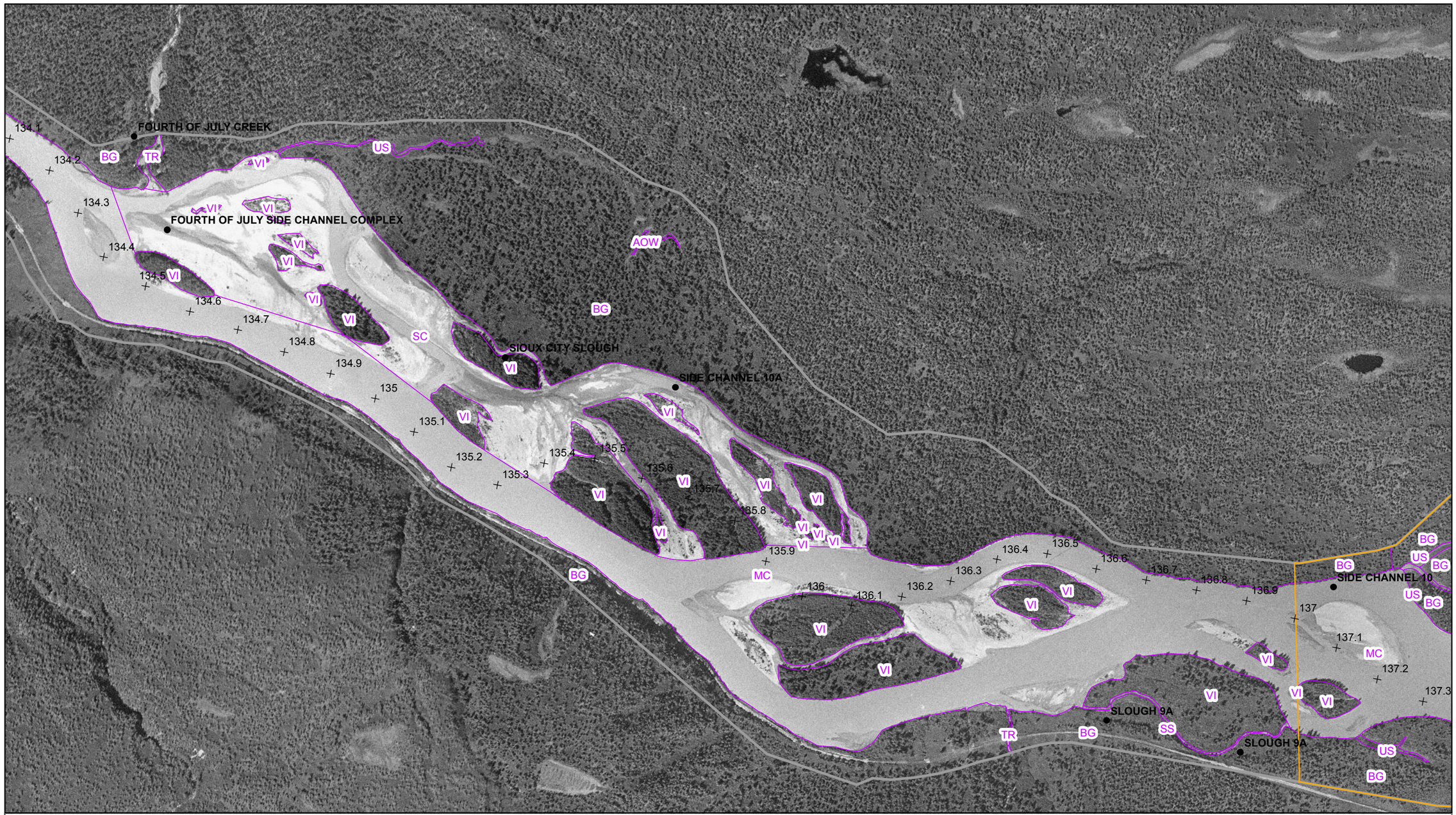
**Sheet 16 of 34**

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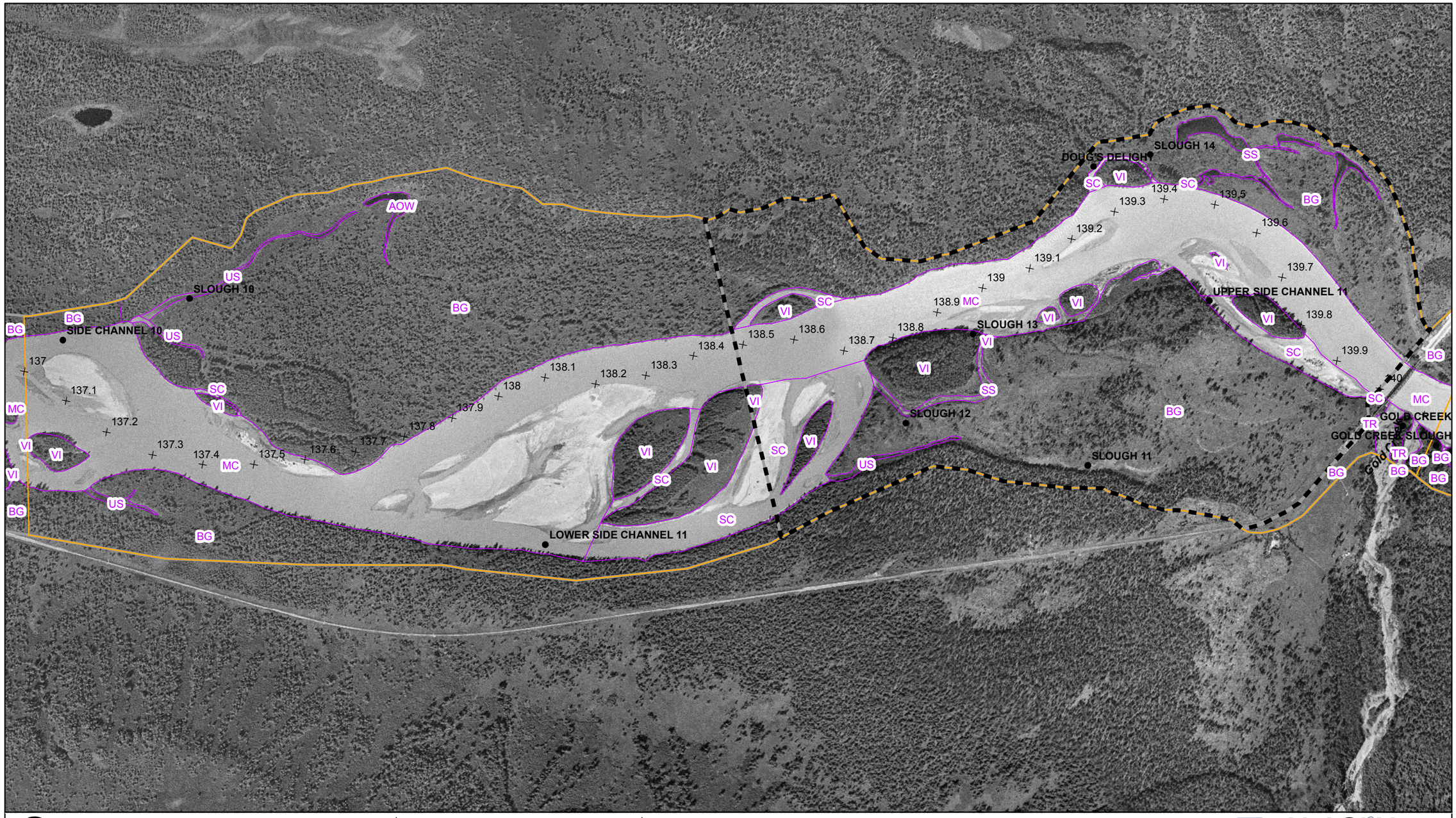
**Sheet 17 of 34**

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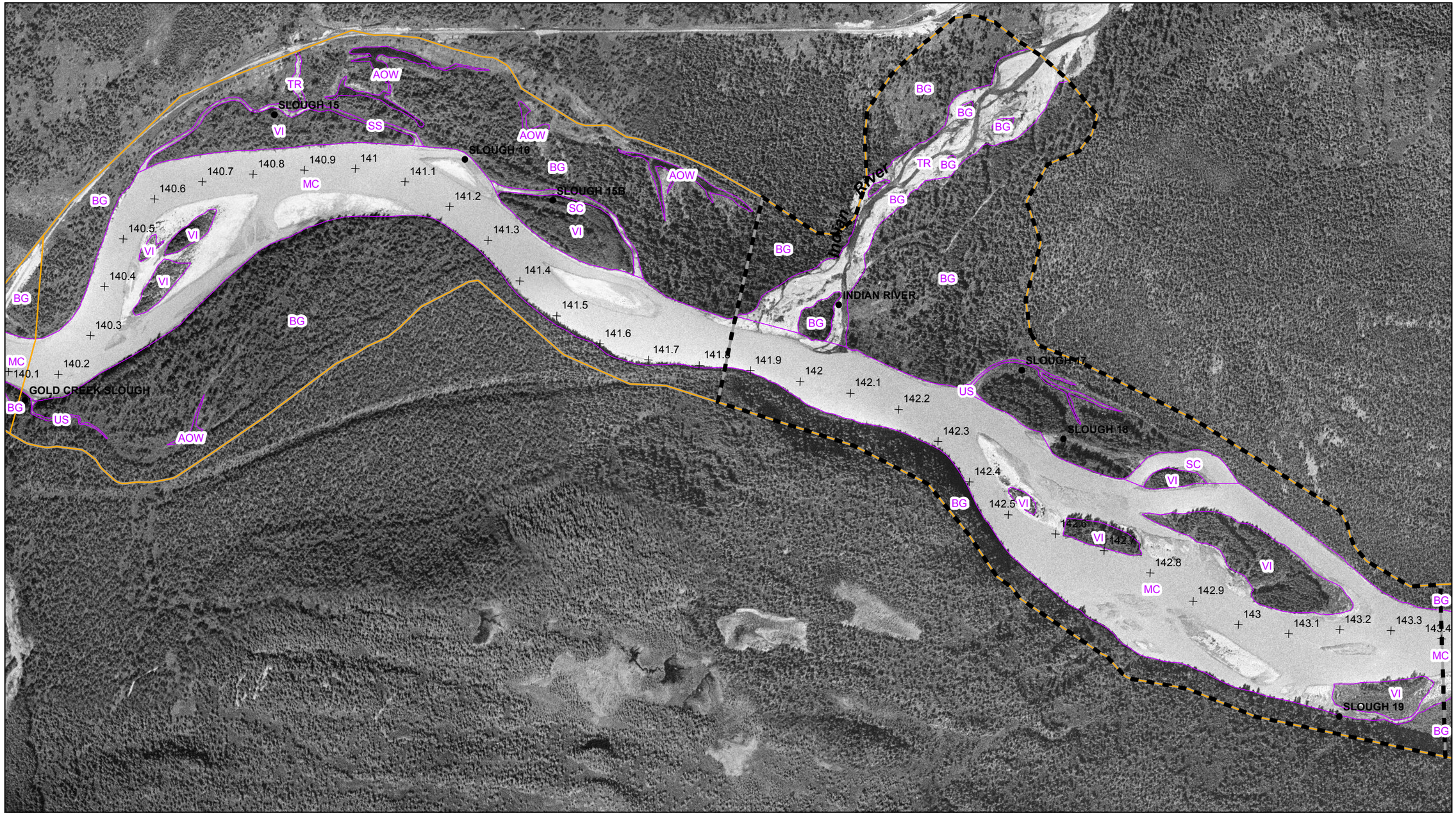
**Sheet 18 of 34**

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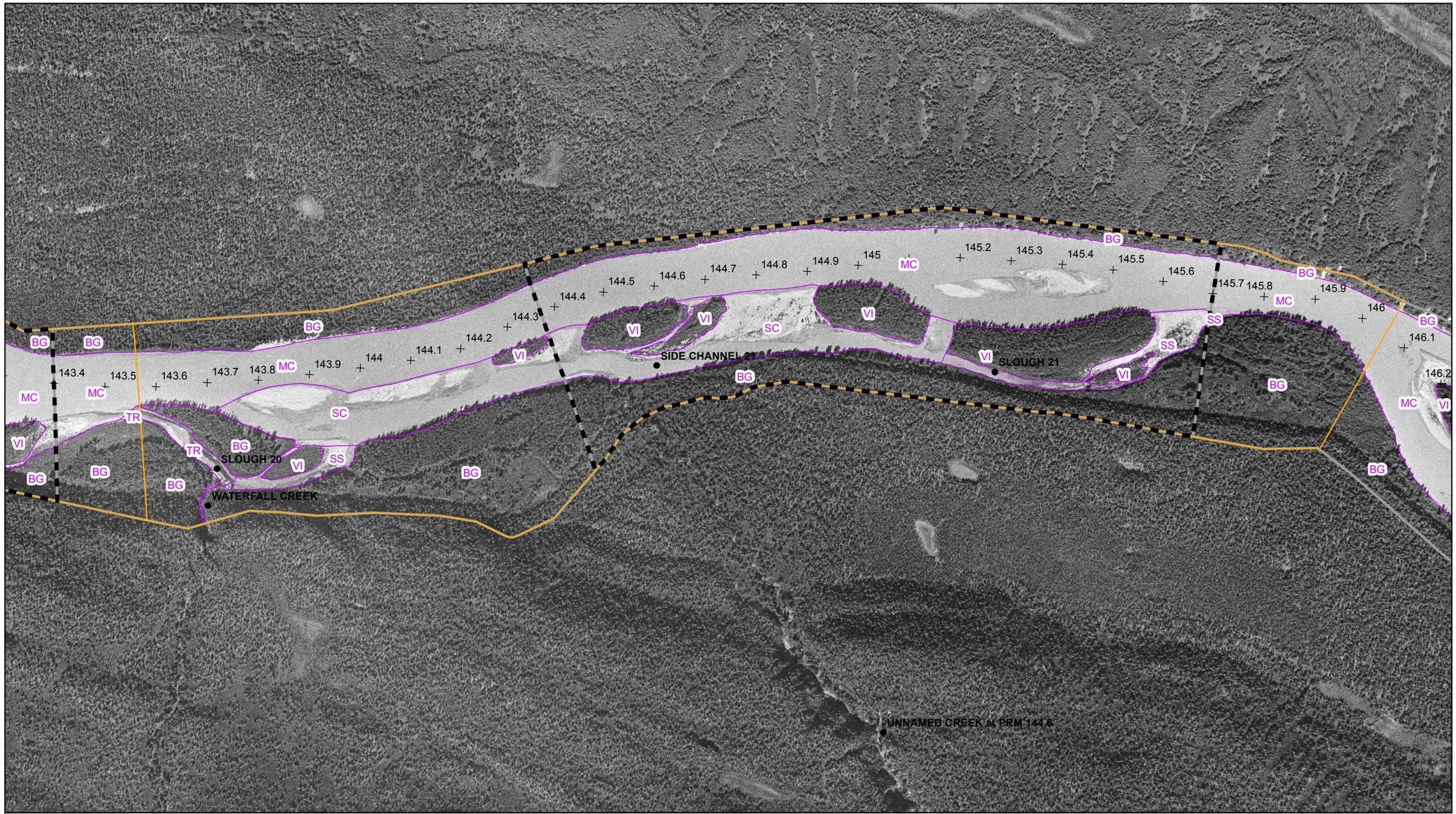
**Sheet 19 of 34**

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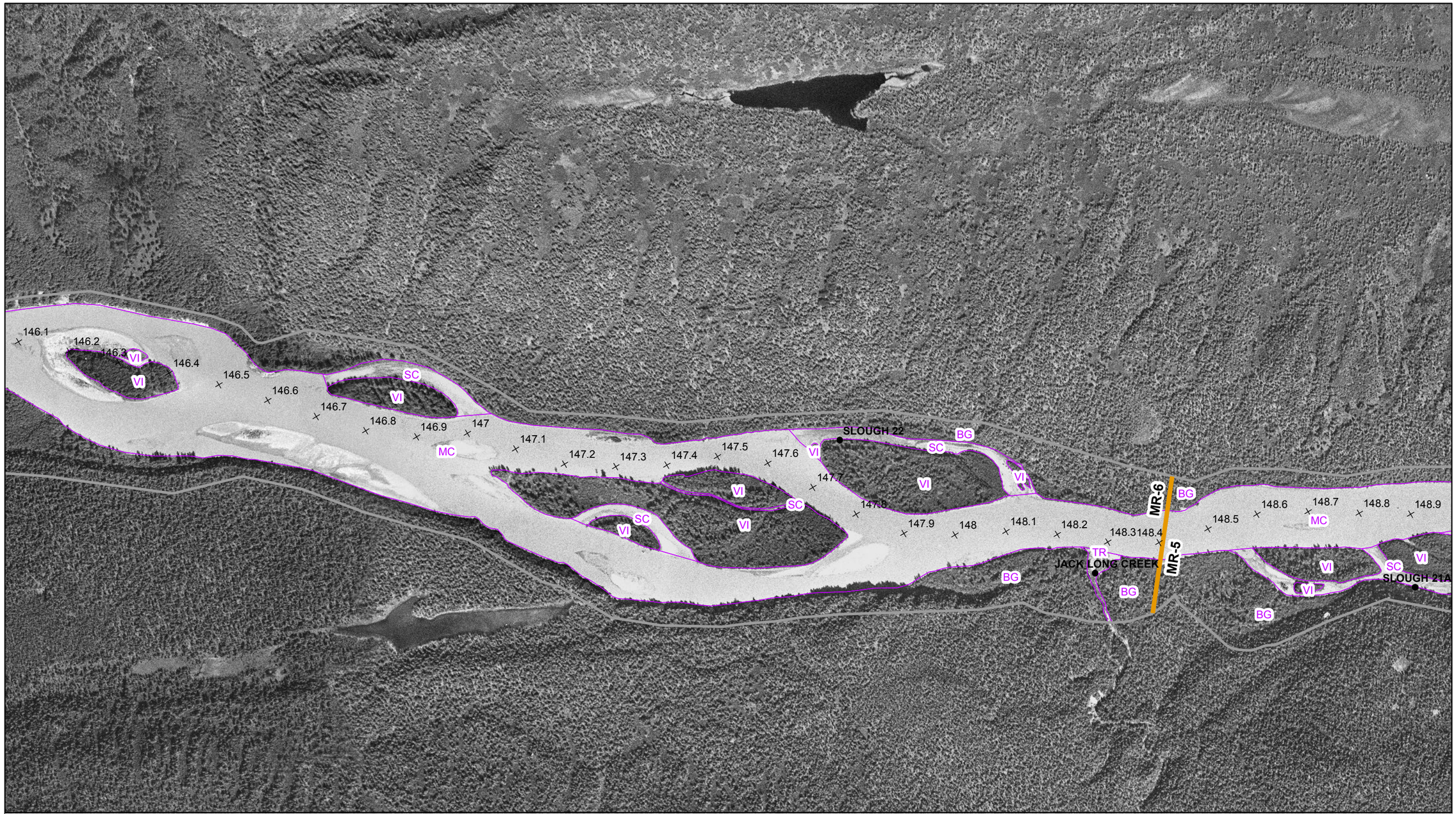
**Sheet 20 of 34**

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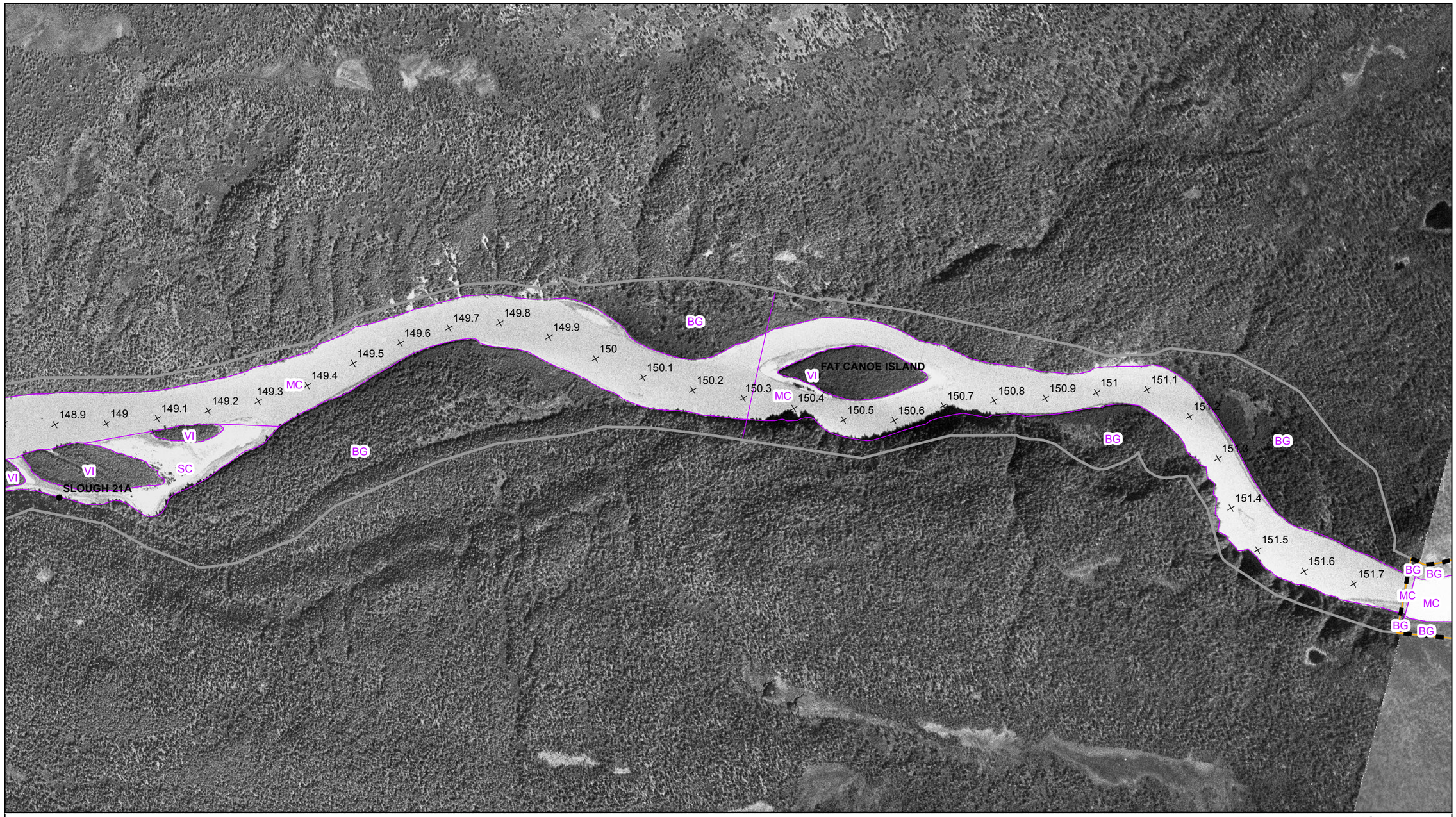
**Sheet 21 of 34**

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| **PRM 158.5 - 187.0** | 08/15/1949 | 25,800 cfs |

ALASKA ENERGY AUTHORITY




0 1,000 2,000 Feet

1 inch = 1,000 feet

See index page for legend and additional data information.

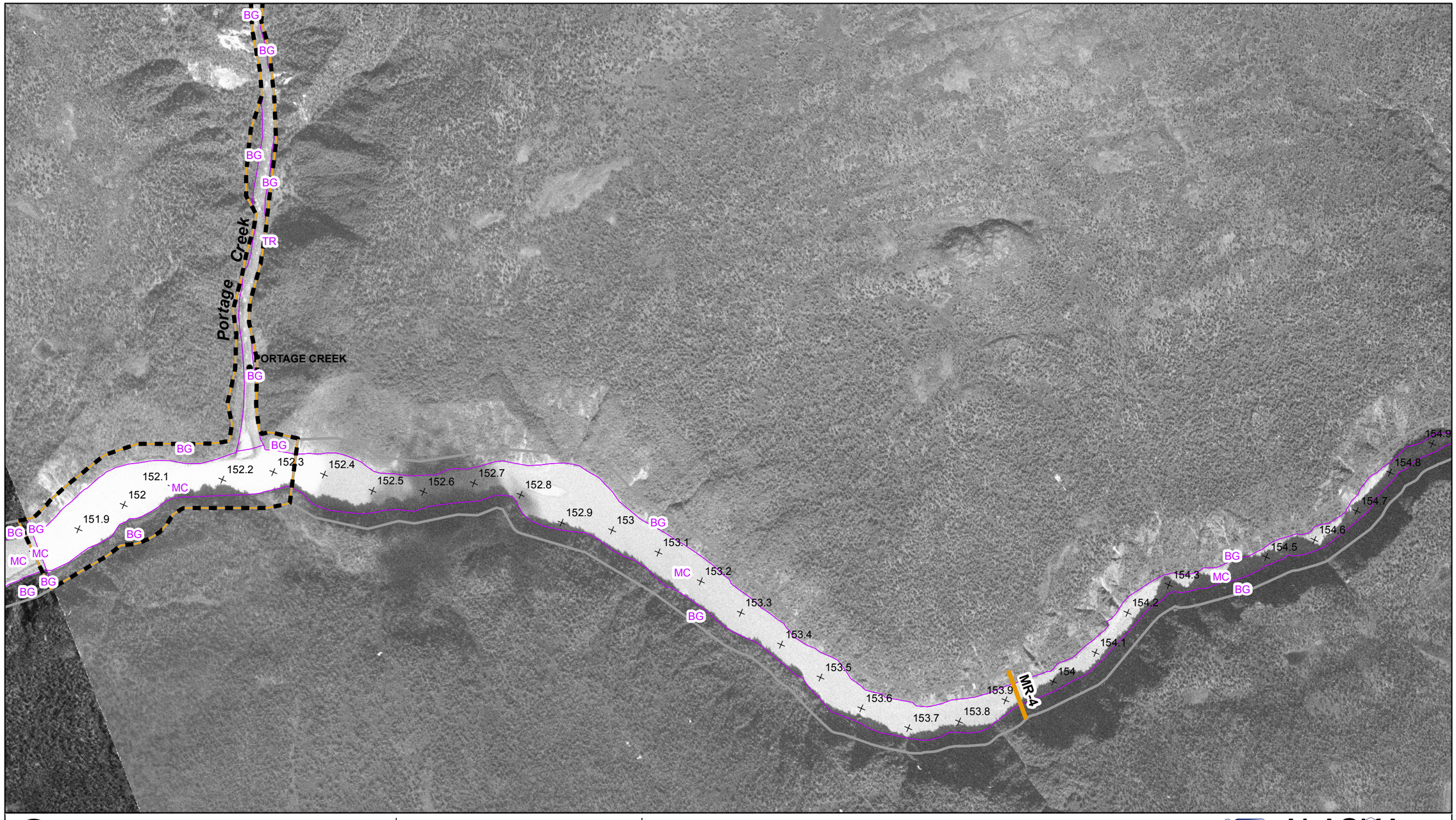
**Sheet 22 of 34**

**MIDDLE SUSITNA RIVER SEGMENT**
**1950s GEOMORPHIC FEATURES**

| Location: | Imagery Date, | Discharge (Gold Creek) |
|---|---|---|
| **PRM 102.0 - 151.8** | 07/03/1951, | 19,000 cfs |

| Location: | Imagery Date, | Discharge (Gold Creek) |
|---|---|---|
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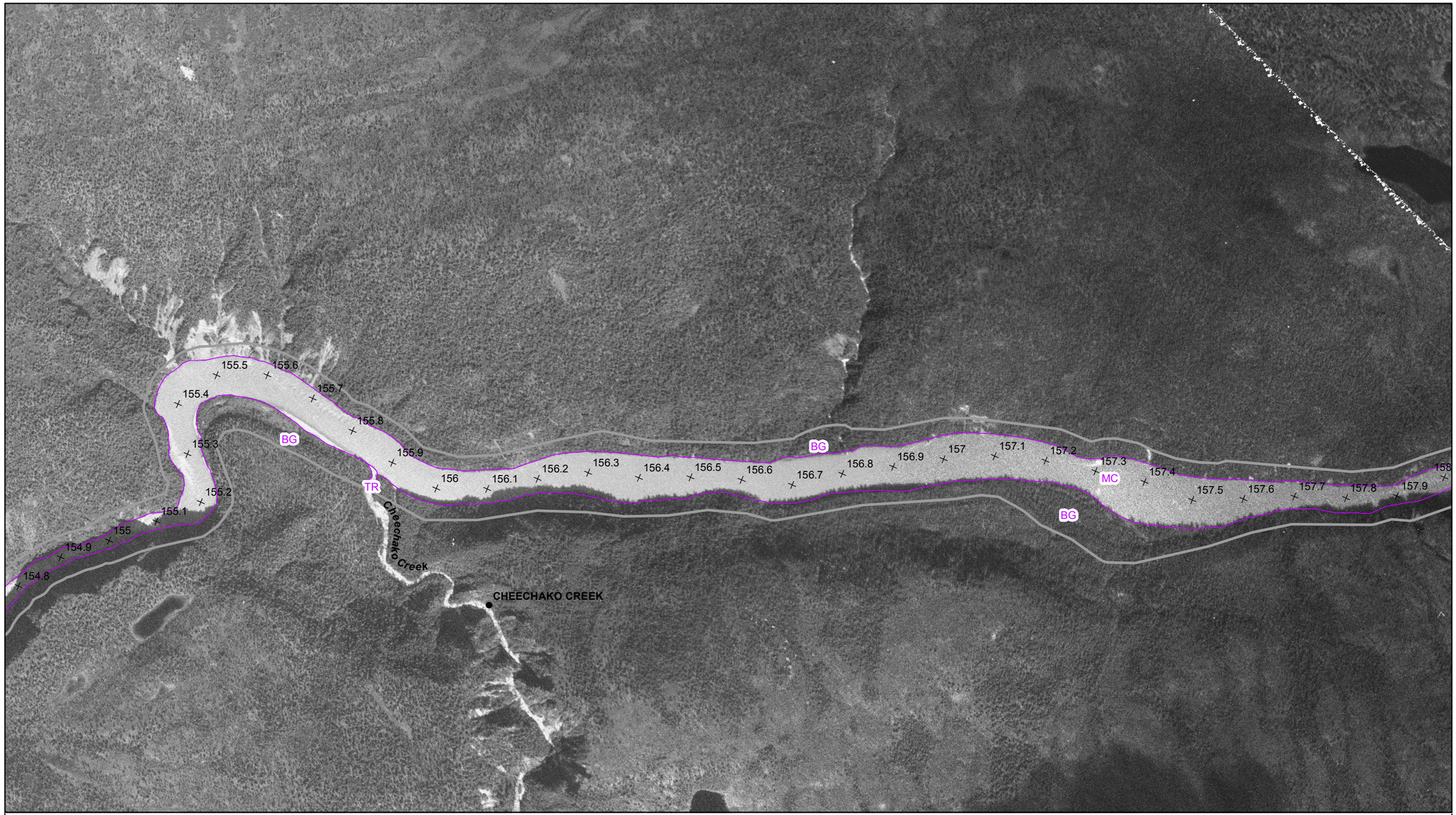
**Sheet 23 of 34**

## MIDDLE SUSITNA RIVER SEGMENT
## 1950s GEOMORPHIC FEATURES

| Location: | Imagery Date, | Discharge (Gold Creek) |
|---|---|---|
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**Sheet 24 of 34**

**MIDDLE SUSITNA RIVER SEGMENT**
**1950s GEOMORPHIC FEATURES**

| Location: | Imagery Date, | Discharge (Gold Creek) |
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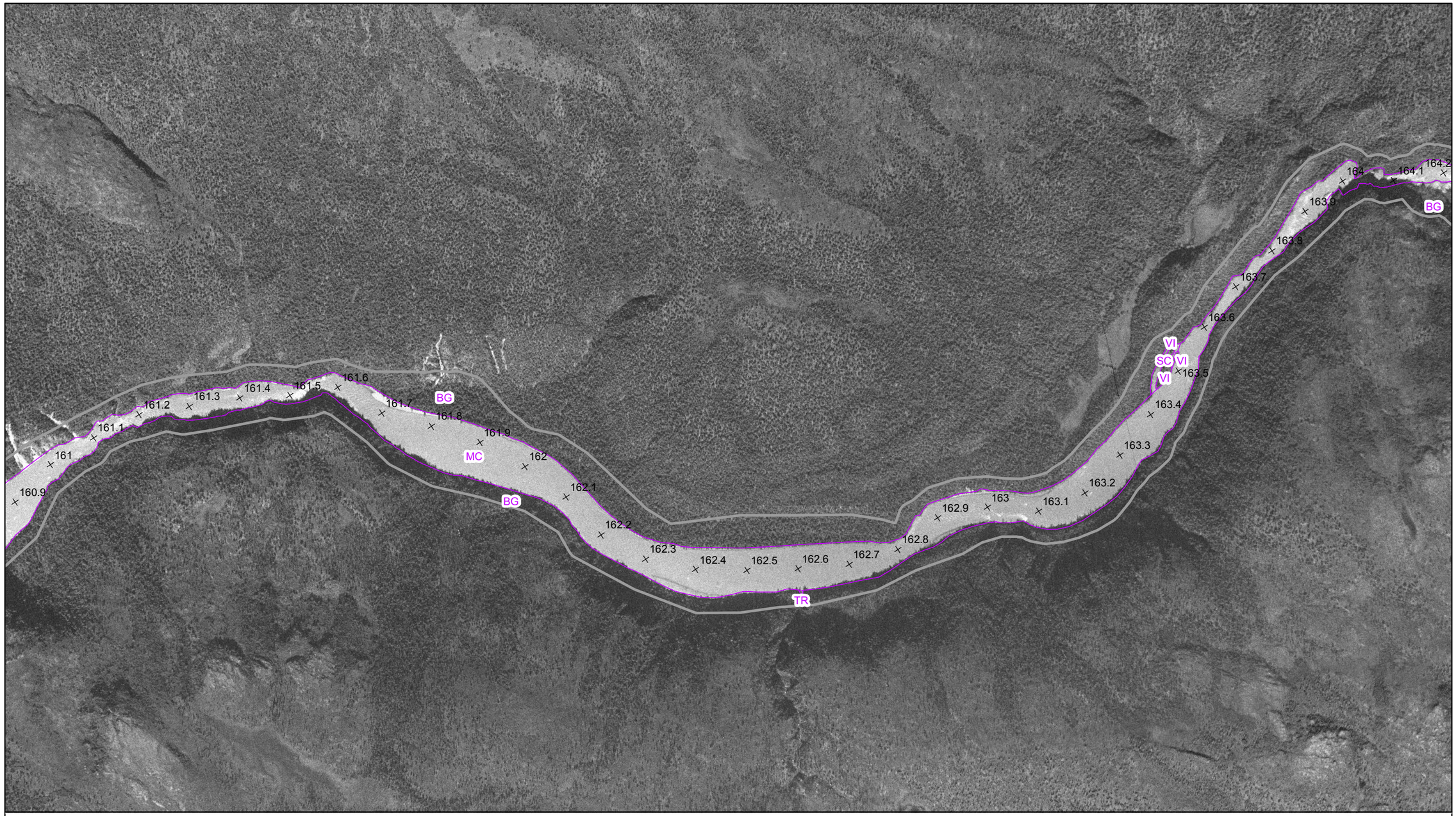
**Sheet 25 of 34**

**MIDDLE SUSITNA RIVER SEGMENT**
**1950s GEOMORPHIC FEATURES**

| Location: | Imagery Date, | Discharge (Gold Creek) |
|---|---|---|
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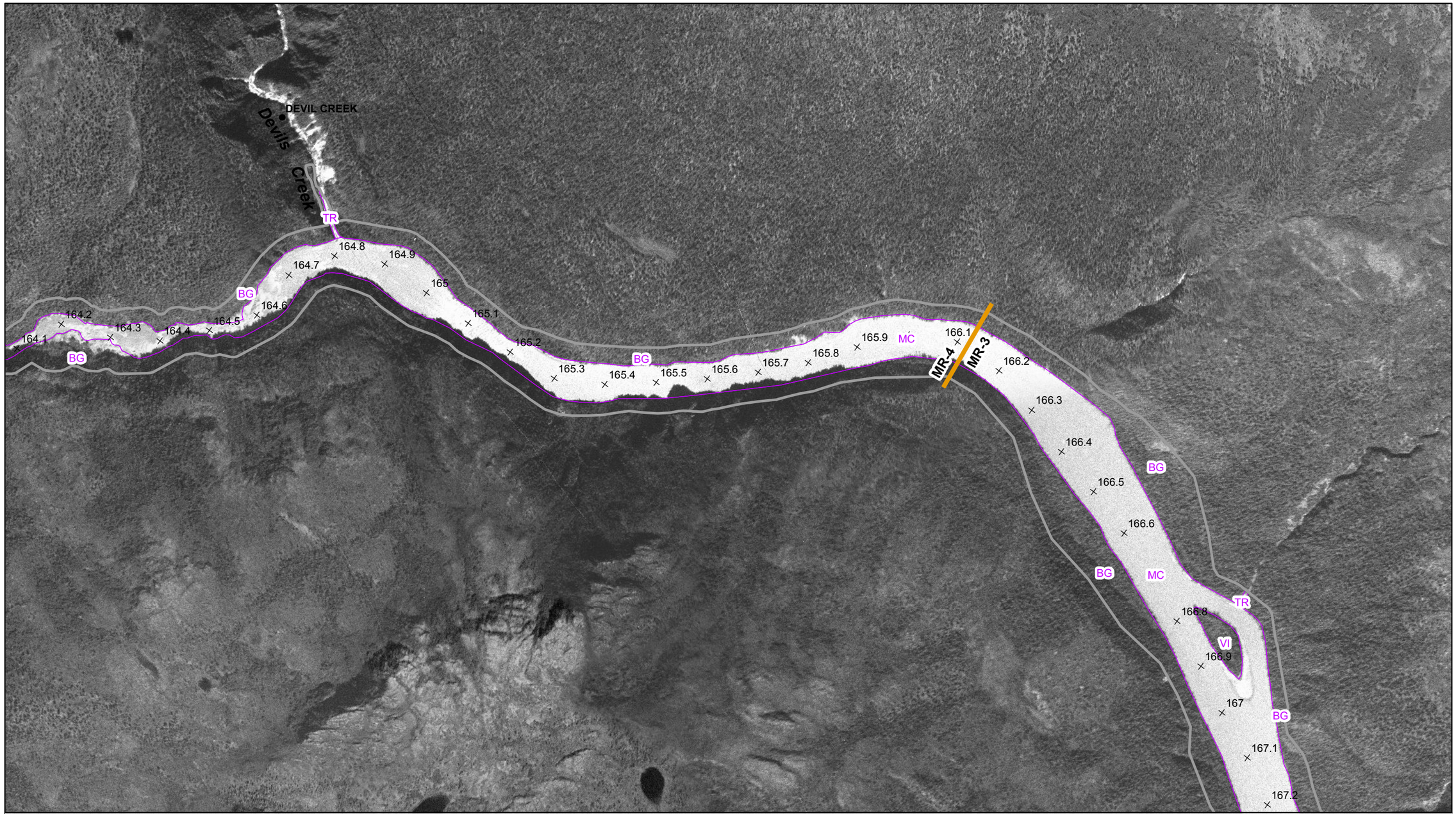
**Sheet 26 of 34**

## MIDDLE SUSITNA RIVER SEGMENT
## 1950s GEOMORPHIC FEATURES

| Location: | Imagery Date, | Discharge (Gold Creek) |
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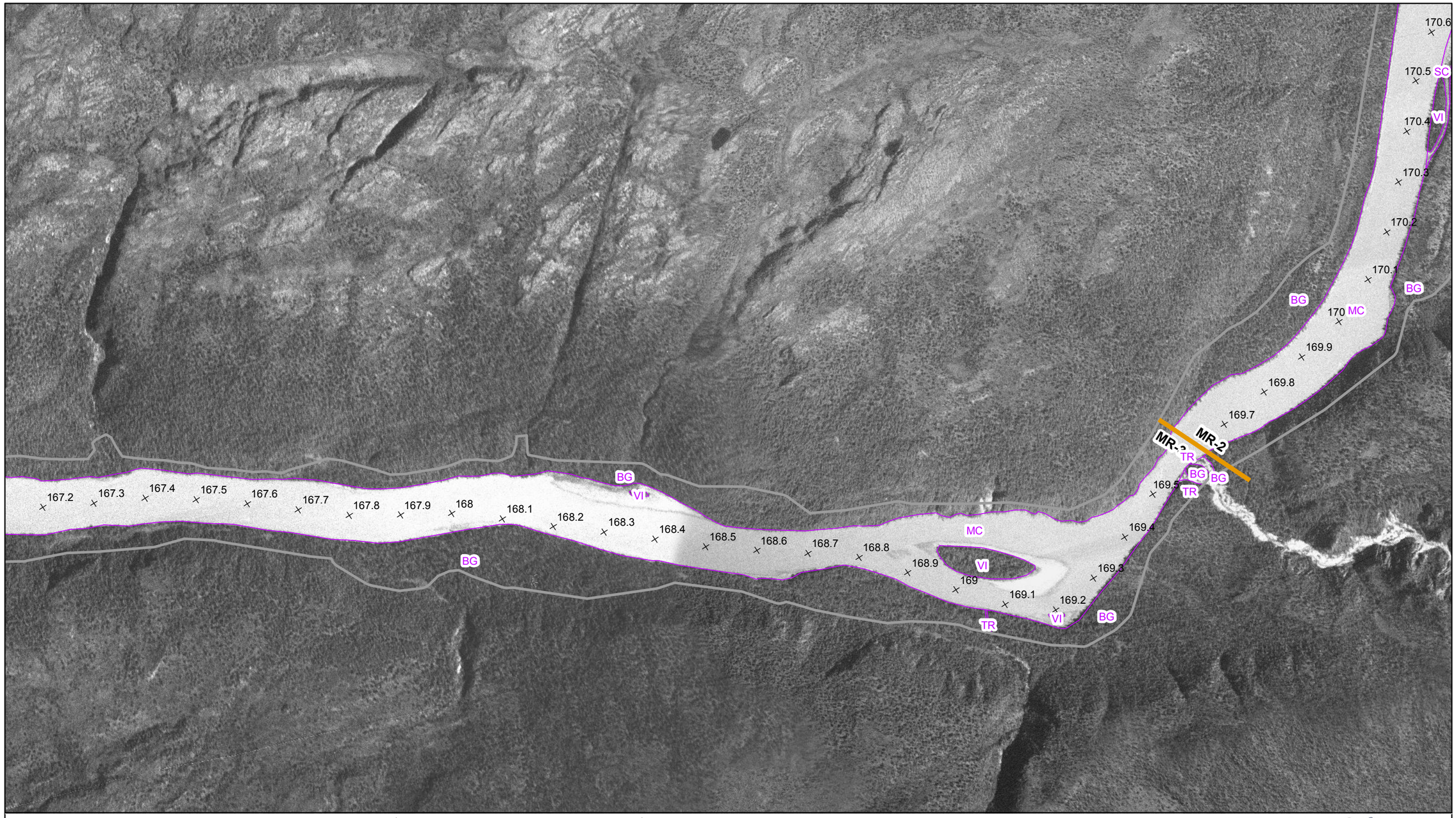
**Sheet 27 of 34**

# MIDDLE SUSITNA RIVER SEGMENT
# 1950s GEOMORPHIC FEATURES

| Location: | Imagery Date, | Discharge (Gold Creek) |
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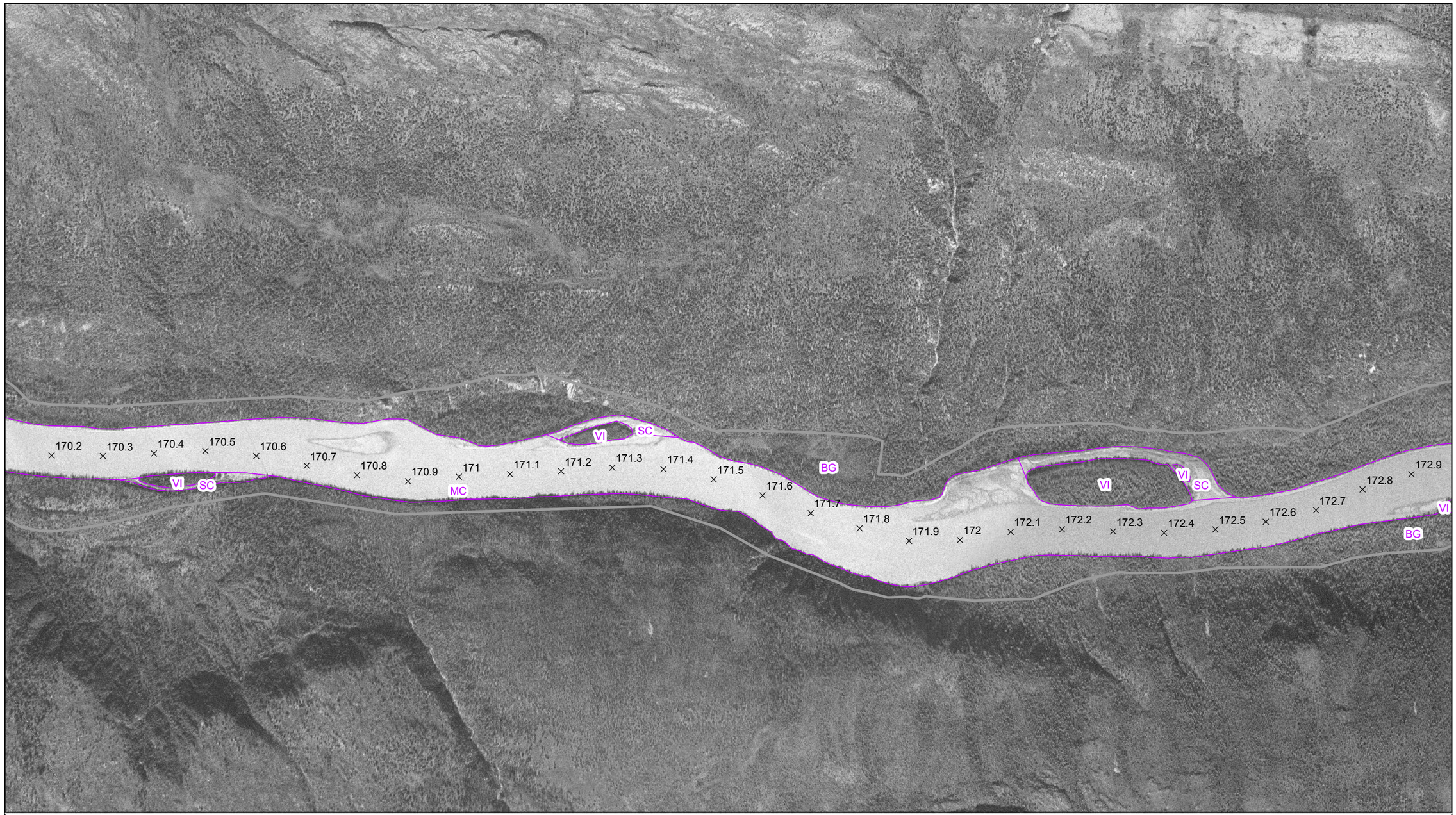
**Sheet 28 of 34**

## MIDDLE SUSITNA RIVER SEGMENT
## 1950s GEOMORPHIC FEATURES

| Location: | Imagery Date, | Discharge (Gold Creek) |
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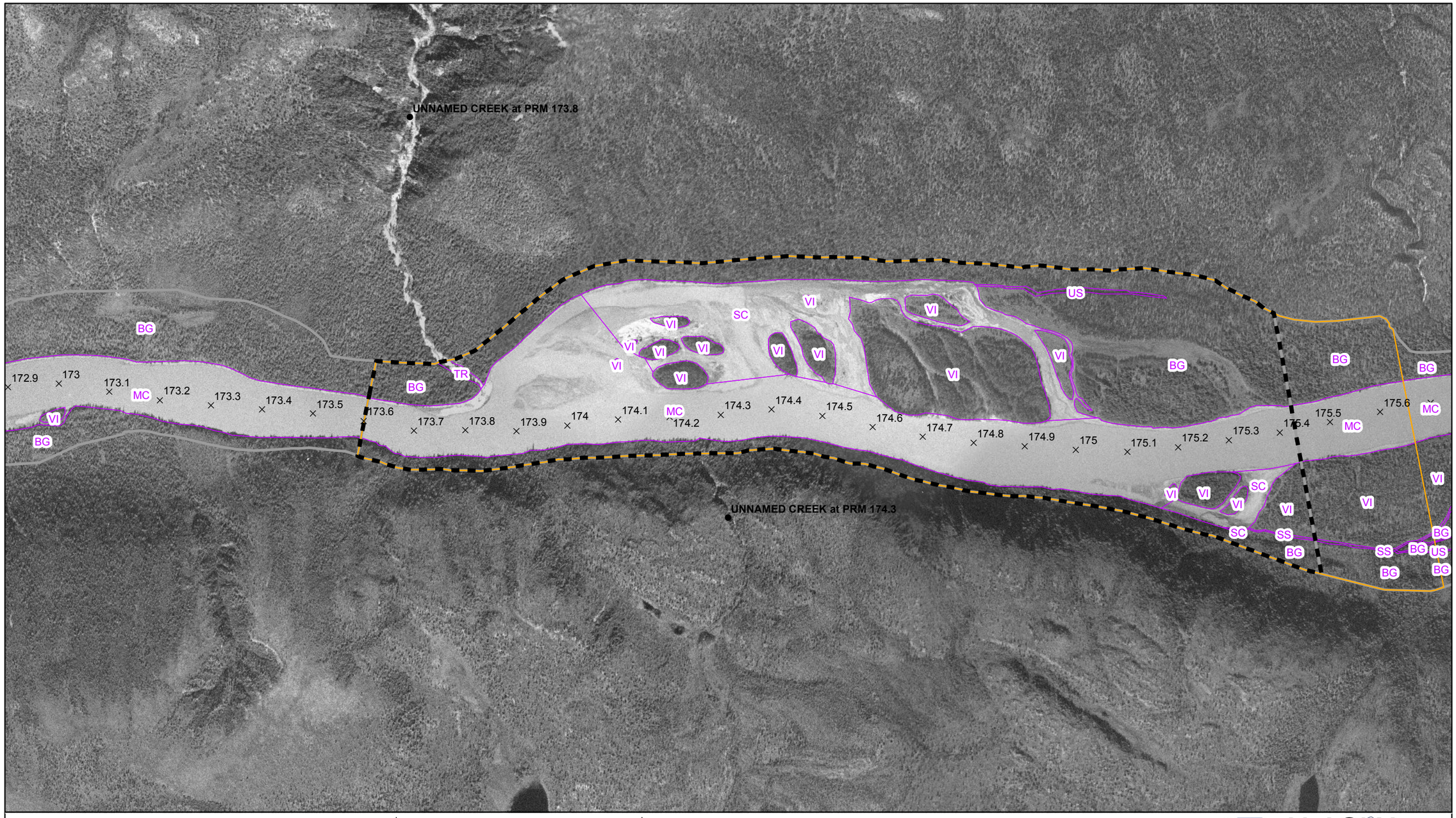
**Sheet 29 of 34**

**MIDDLE SUSITNA RIVER SEGMENT**
**1950s GEOMORPHIC FEATURES**

| Location: | Imagery Date, | Discharge (Gold Creek) |
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ALASKA ENERGY AUTHORITY




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**Sheet 30 of 34**

## MIDDLE SUSITNA RIVER SEGMENT
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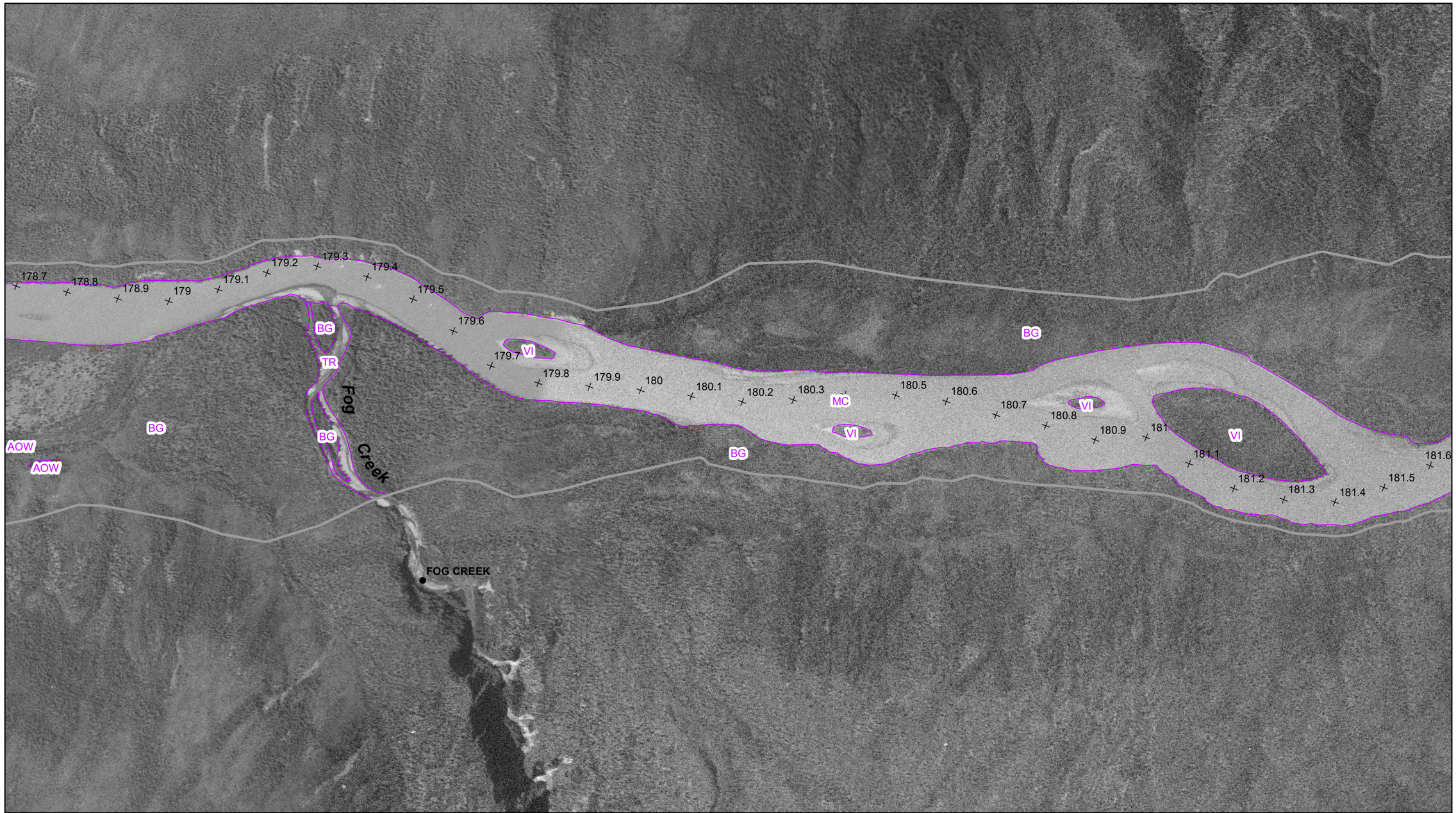
**Sheet 31 of 34**

**MIDDLE SUSITNA RIVER SEGMENT**
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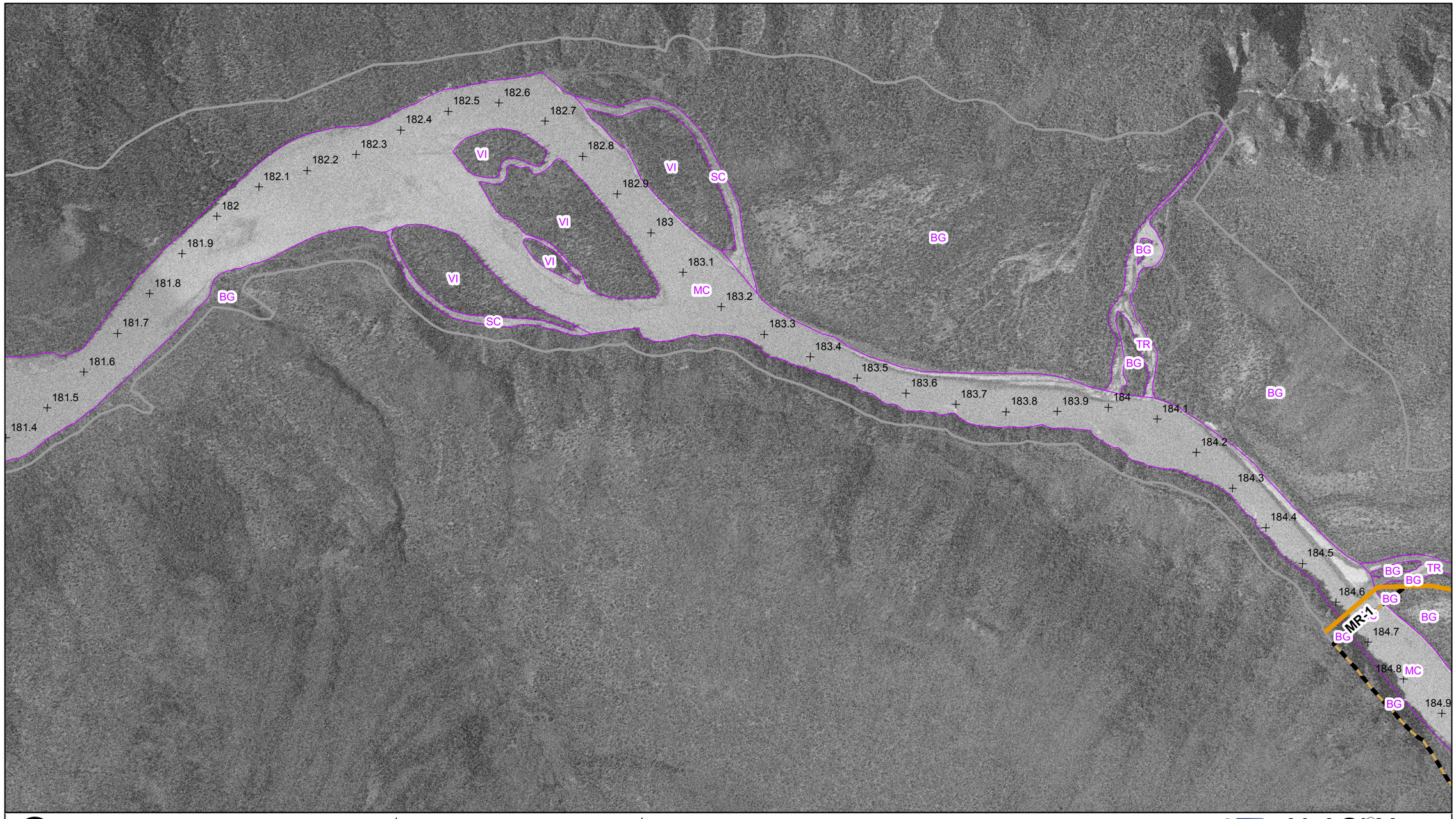
**Sheet 32 of 34**

## MIDDLE SUSITNA RIVER SEGMENT
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ALASKA ENERGY AUTHORITY

TSUSENA CREEK

Tsusena Creek

MR-2

MR-1

TR

BG

VI

MC

UR-6

184.5 184.6 184.7 184.8 184.9 185 185.1 185.2 185.3 185.4 185.5 185.6 185.7 185.8 185.9 186 186.1 186.2 186.3 186.4 186.5 186.6 186.7 186.8 186.9 187 187.1 187.2 187.3

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# MIDDLE SUSITNA RIVER SEGMENT
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ALASKA ENERGY AUTHORITY