

**E. WOODY TRIHEY & ASSOCIATES**  
INSTREAM FLOW AND RIVERINE HABITAT ASSESSMENTS

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DISTRIBUTION

TO: Aquatic Studies Group  
FROM: Woody Trihey *Woody*  
SUBJECT: Geographic Locations of Habitat Inventory Reconnaissance Sites  
DATE: October 30, 1984

Attached for your information is a set of plates of the middle Susitna River with the geographic locations of our habitat inventory reconnaissance sites delineated. Please contact us if you need additional copies.

EWT/ds

cc: Larry Gilbertson  
Bill Wilson  
Christopher Estes  
Dana Schmidt  
Bruce Barrett  
Larry Moulton  
Steve Bredthauer

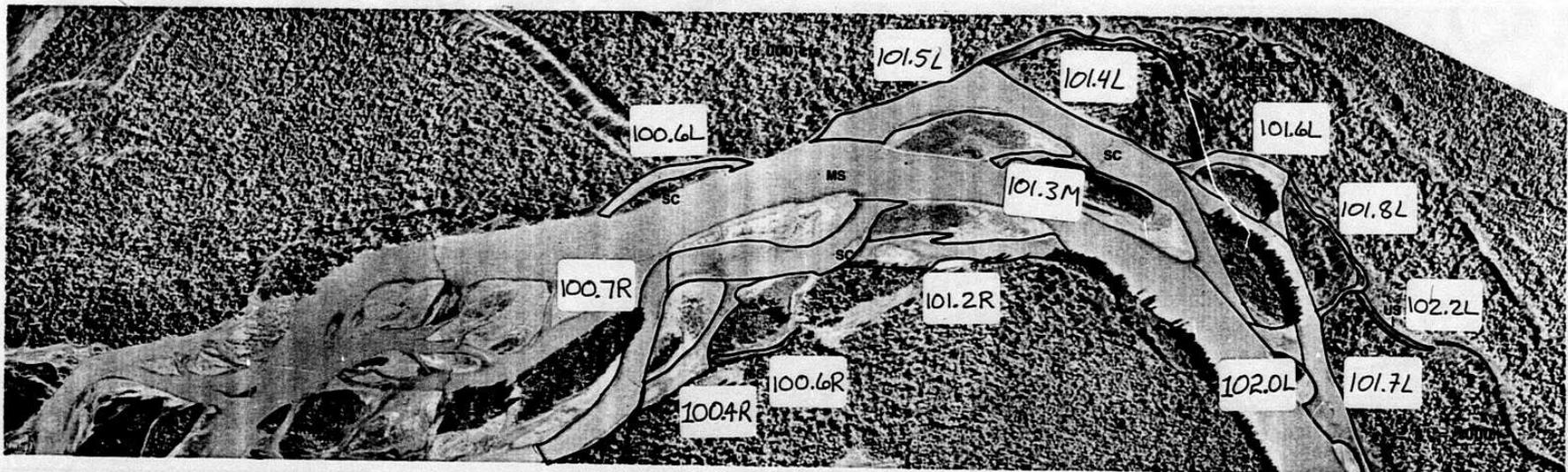
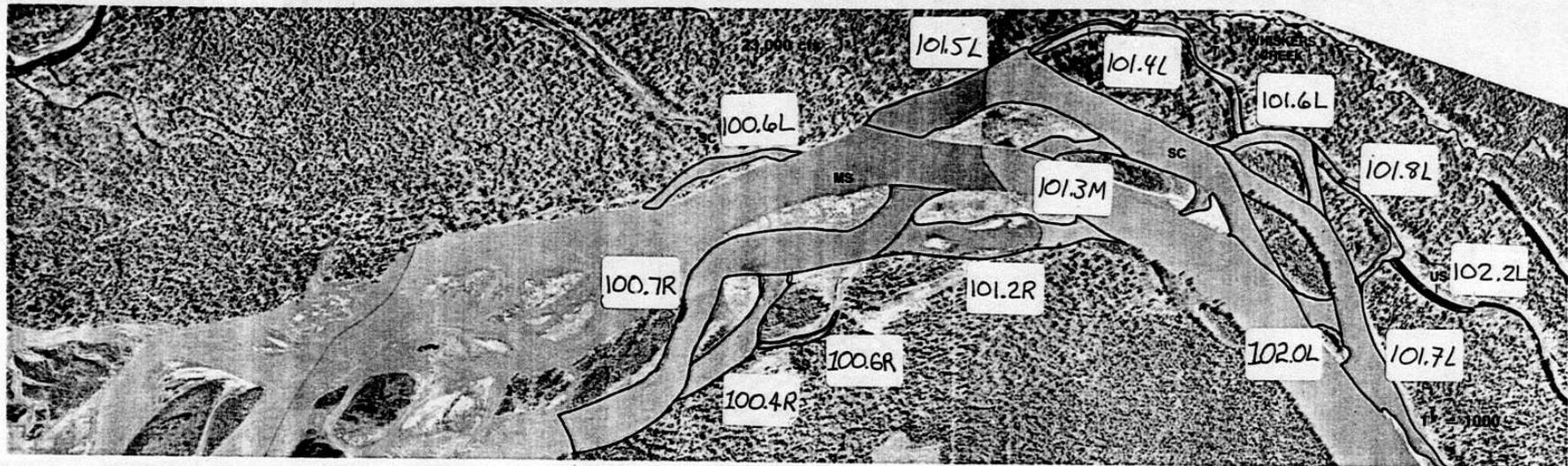
Designations

345  
412

EWT & A

Channel Designations

305  
412



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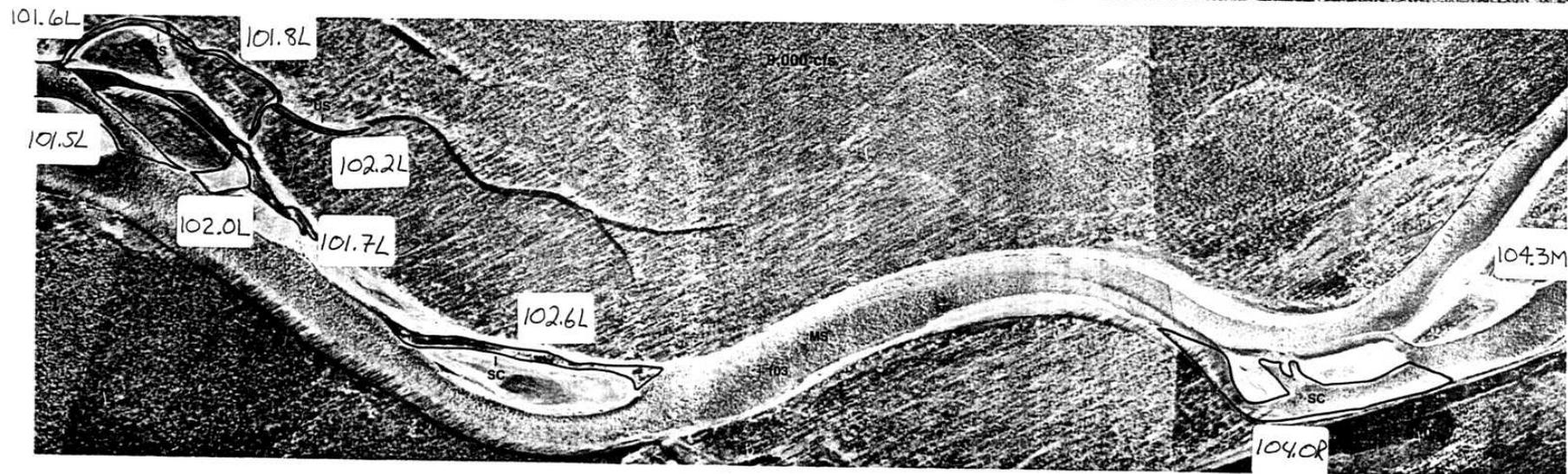
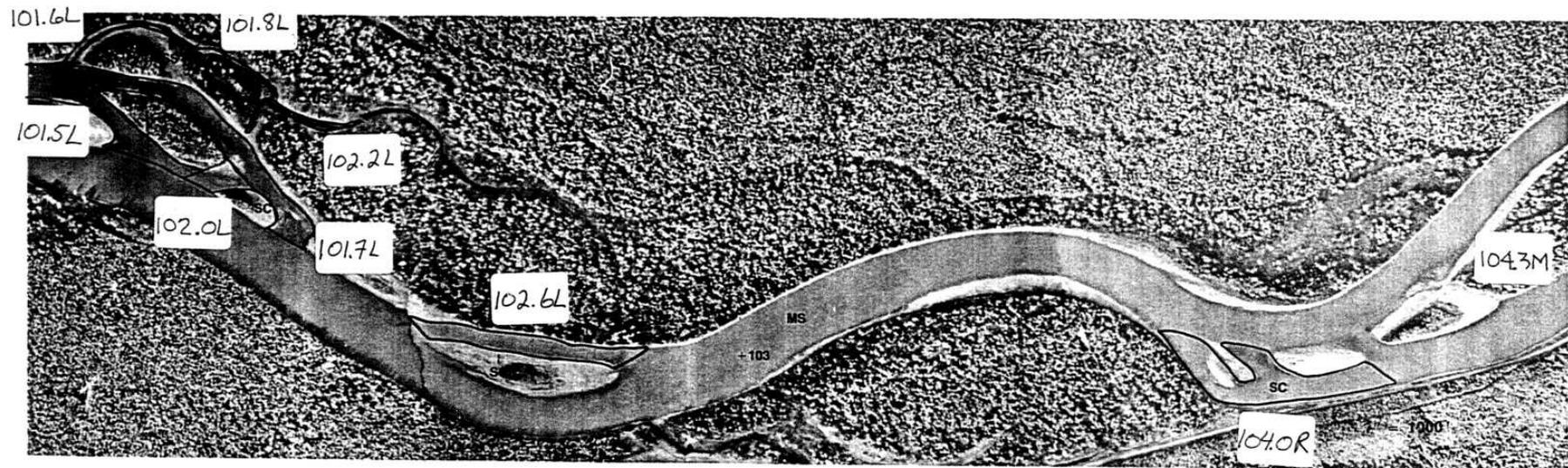
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SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

PLATE 18 OF 18 RIVER MILE 101 TO 102

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A** HARZA-EBASCO  
SUSITNA JOINT VENTURE



**LEGEND**

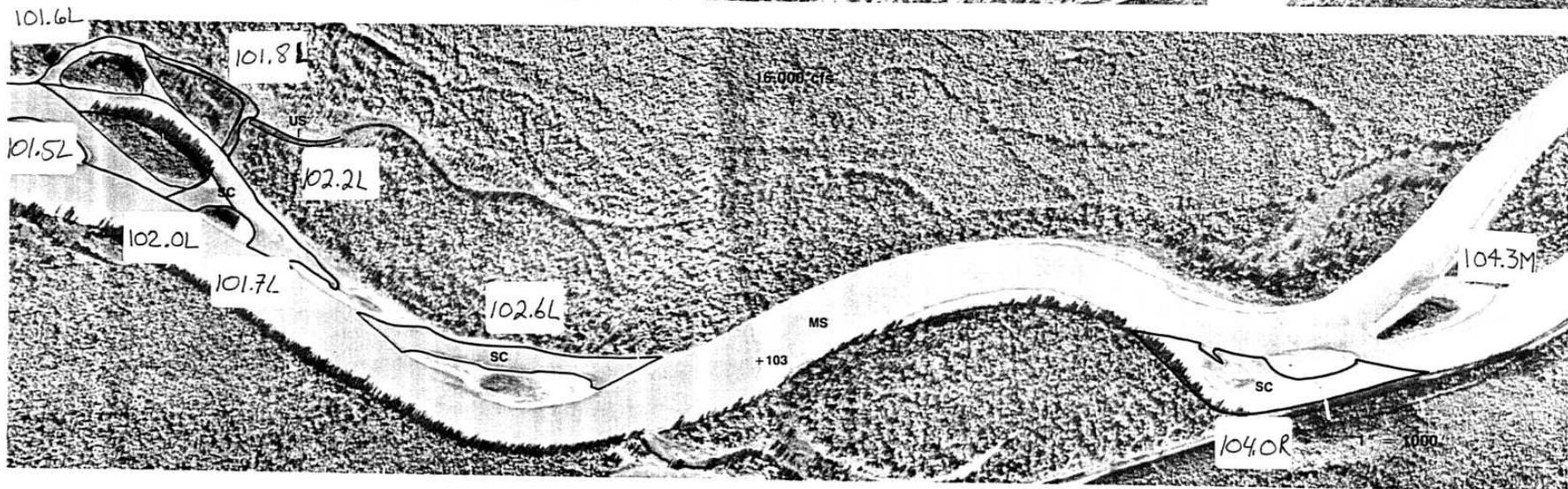
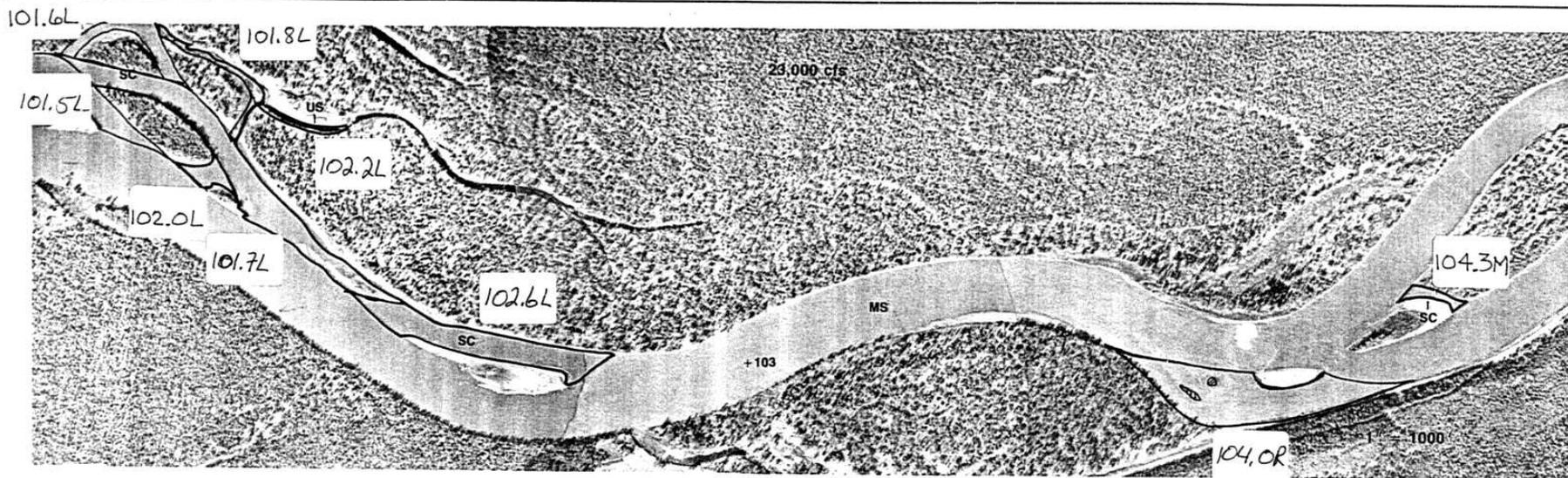
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SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

PLATE 17 OF 18 RIVER MILE 102 TO 104

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A** HARZA-EBASCO  
SUSITNA JOINT VENTURE



**LEGEND**

- |                  |                    |
|------------------|--------------------|
| MS MAINSTEM      | TM TRIBUTARY MOUTH |
| SC SIDE CHANNEL  | T TRIBUTARY        |
| SS SIDE SLOUGH   | + RIVER MILE       |
| US UPLAND SLOUGH |                    |

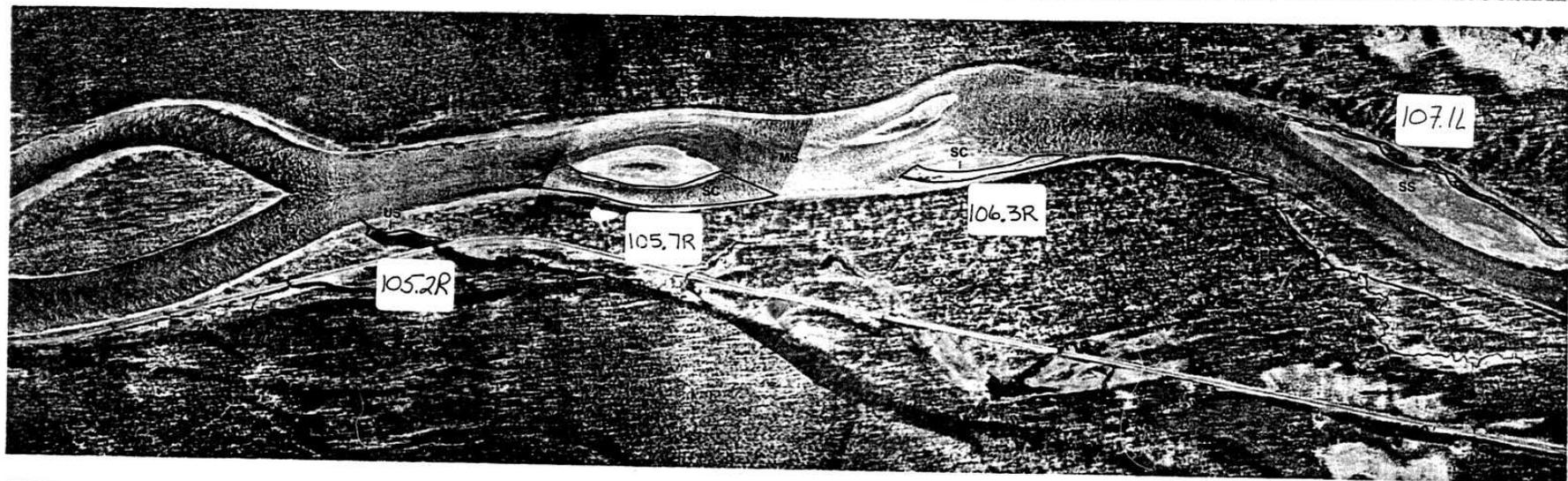
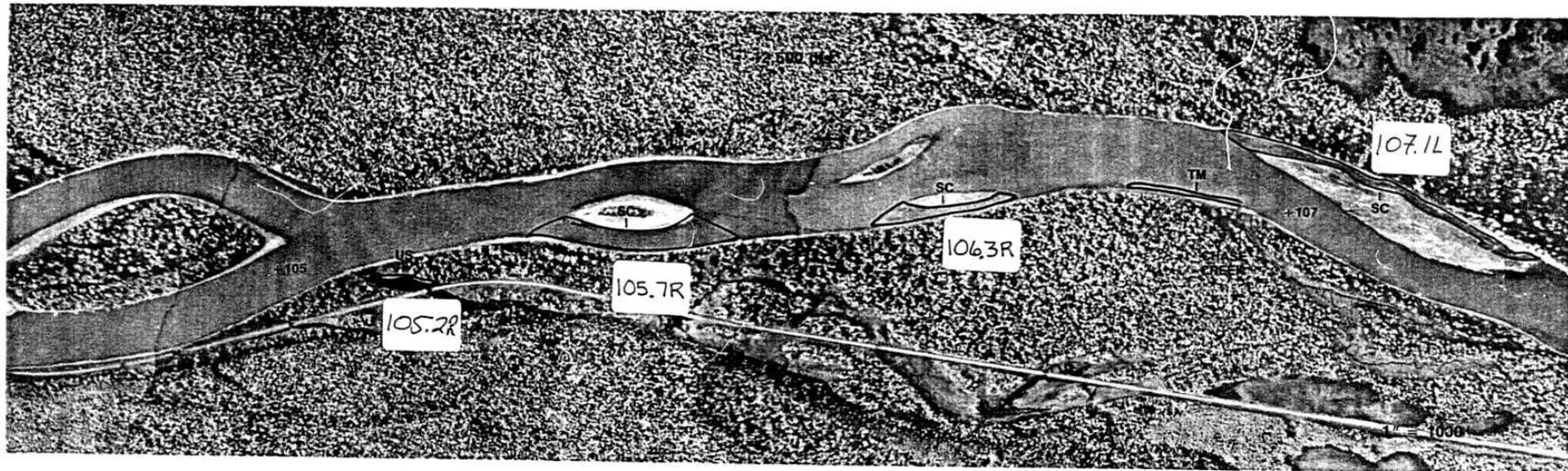
**MIDDLE SUSITNA RIVER**

PLATE 17 OF 18 RIVER MILE 102 TO 104

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**  
ENGINEERING, ARCHITECTURE & CONSTRUCTION

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



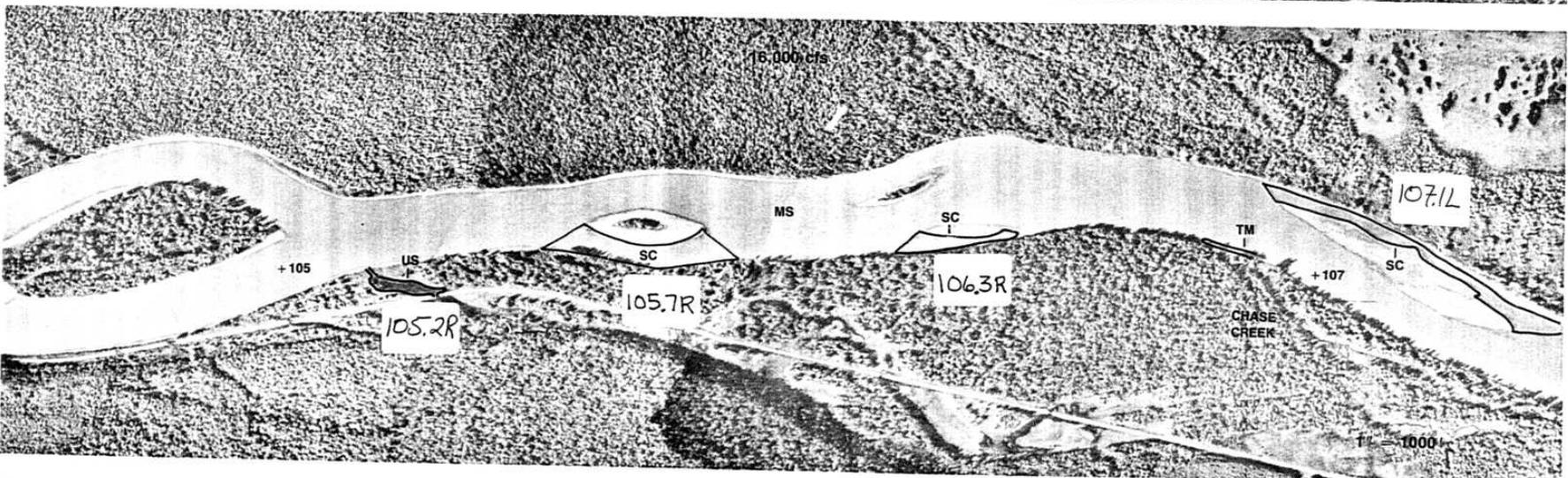
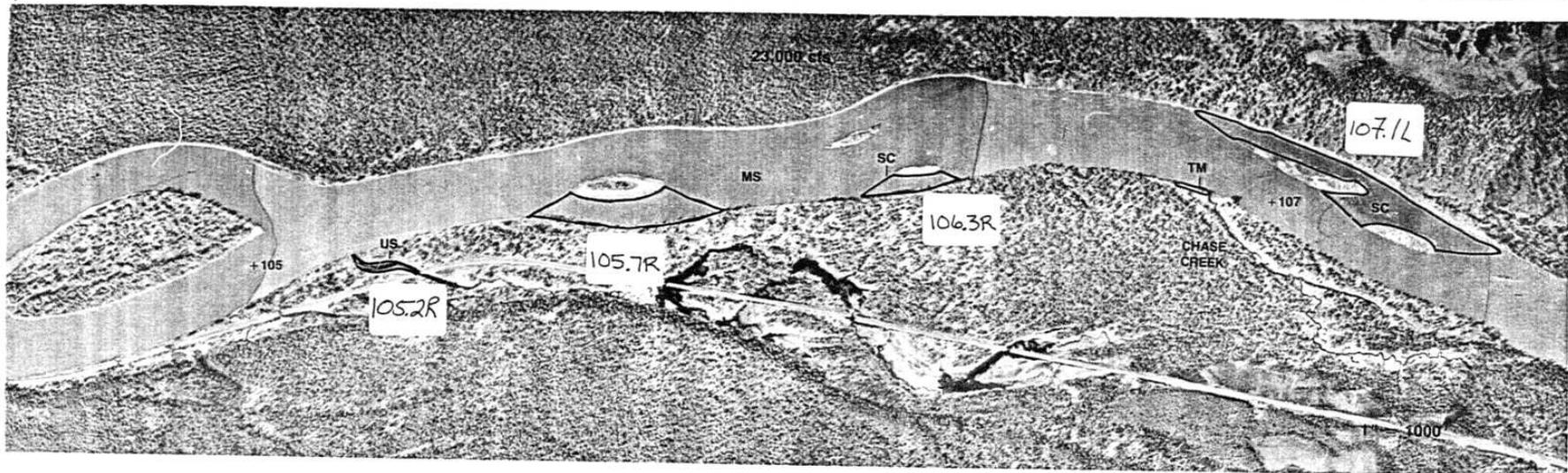
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SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

PLATE 16 OF 18      RIVER MILE 105 TO 107

**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

<b>EWT&amp;A</b> <small>ENGINEERING, WATER, TRIBUTARY &amp; ASSOCIATES</small>	<b>HARZA-EBASCO</b> <small>SUSITNA JOINT VENTURE</small>
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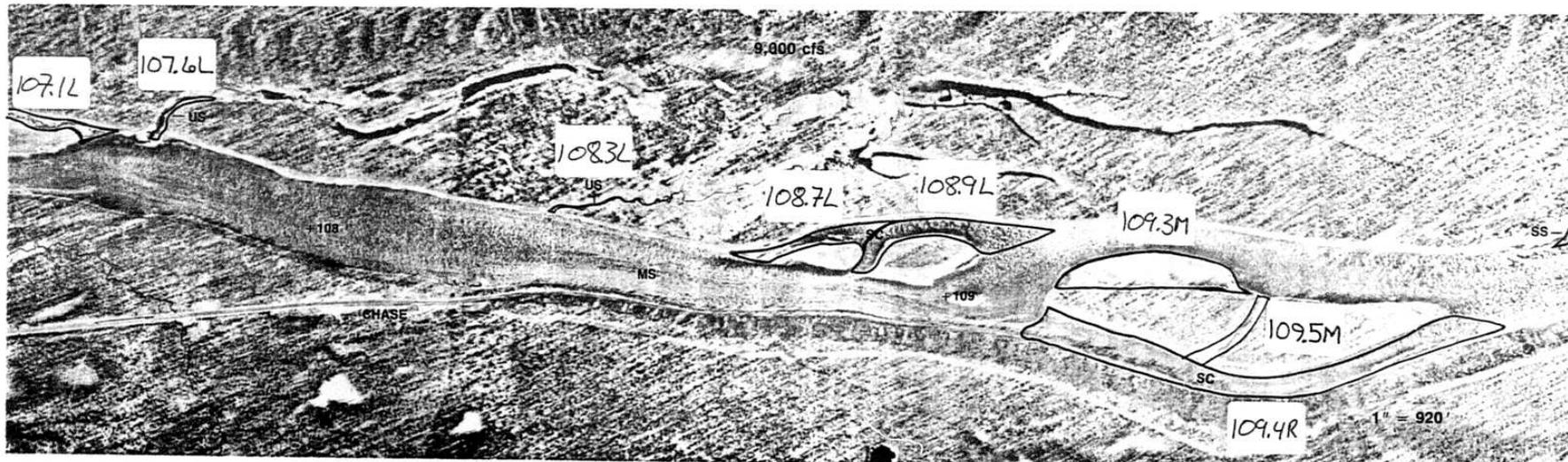
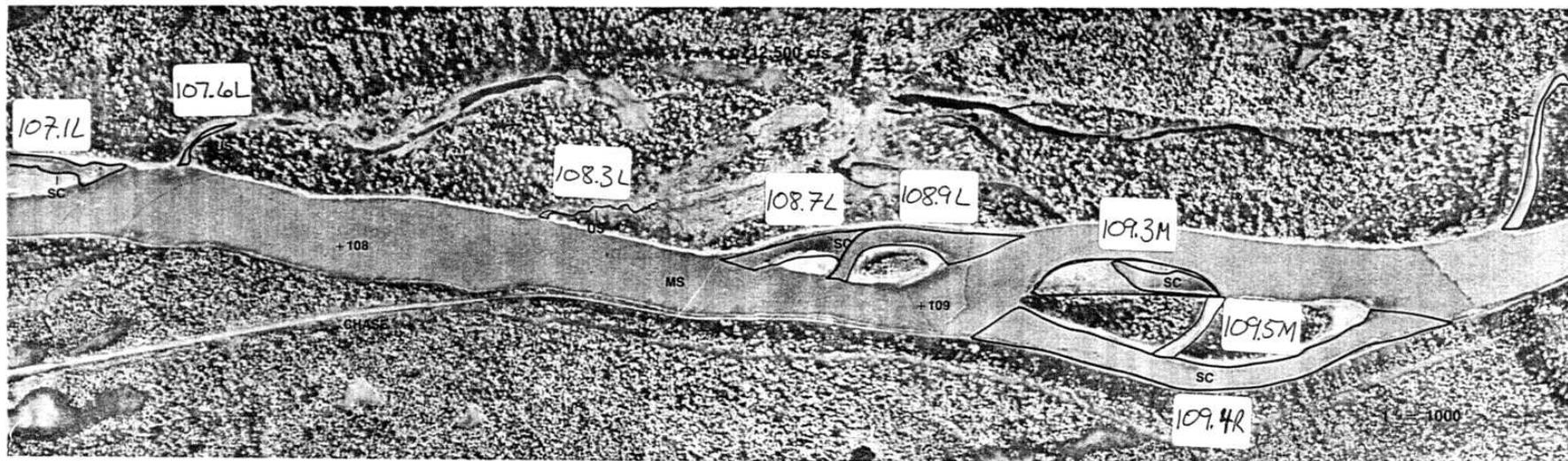
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SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

PLATE 16 OF 18      RIVER MILE 105 TO 107

**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

<b>EWT&amp;A</b> <small>ENGINEERS, ARCHITECTS &amp; SURVEYORS</small>	<b>HARZA-EBASCO</b> <small>SUSITNA JOINT VENTURE</small>
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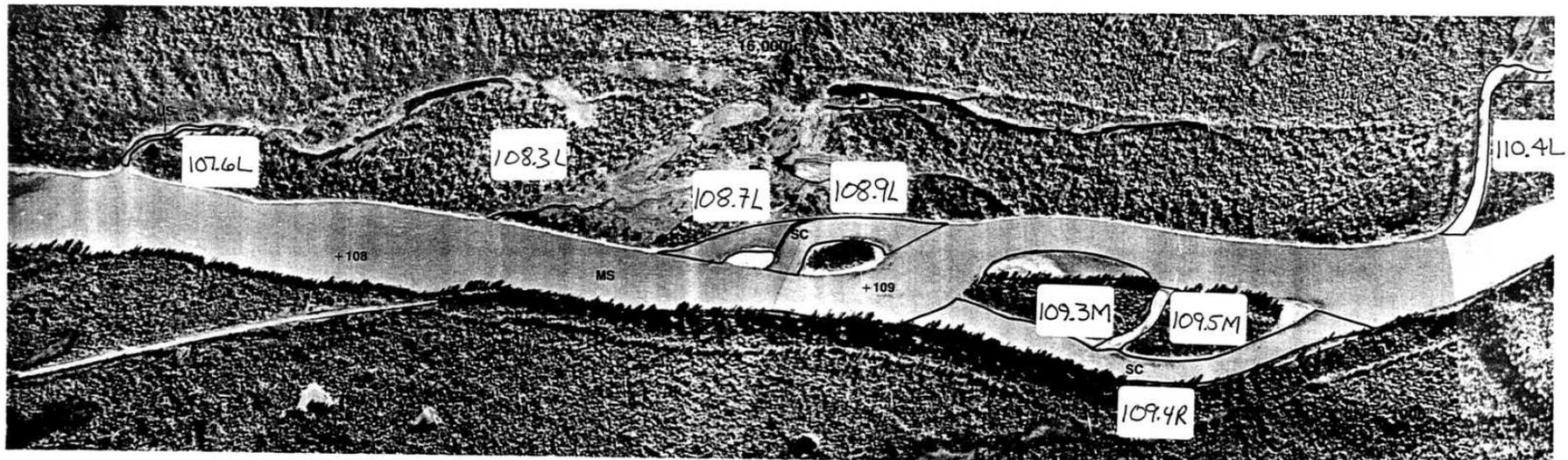
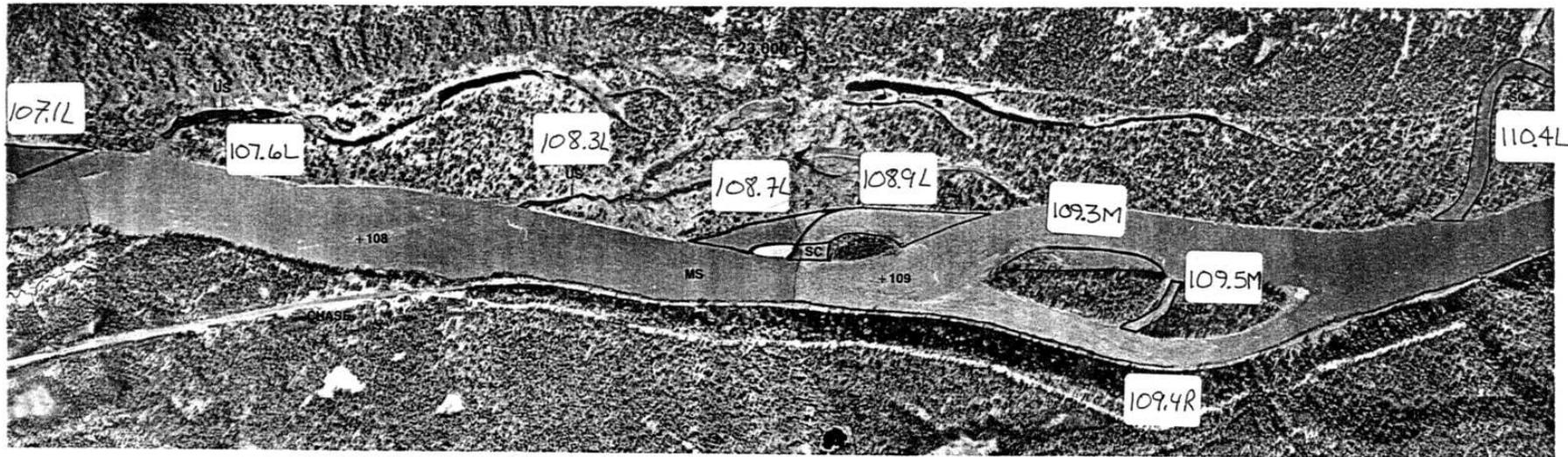
LEGEND	
MS	MAINSTEM
SC	SIDE CHANNEL
SS	SIDE SLOUGH
US	UPLAND SLOUGH
TM	TRIBUTARY MOUTH
T	TRIBUTARY
+	RIVER MILE

**MIDDLE SUSITNA RIVER**

PLATE 15 OF 18      RIVER MILE 108 TO 110

**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

<b>EWT&amp;A</b> <small>ENGINEERING, WATER, TRIMET &amp; ASSOCIATES</small>	<b>HARZA-EBASCO</b> SUSITNA JOINT VENTURE
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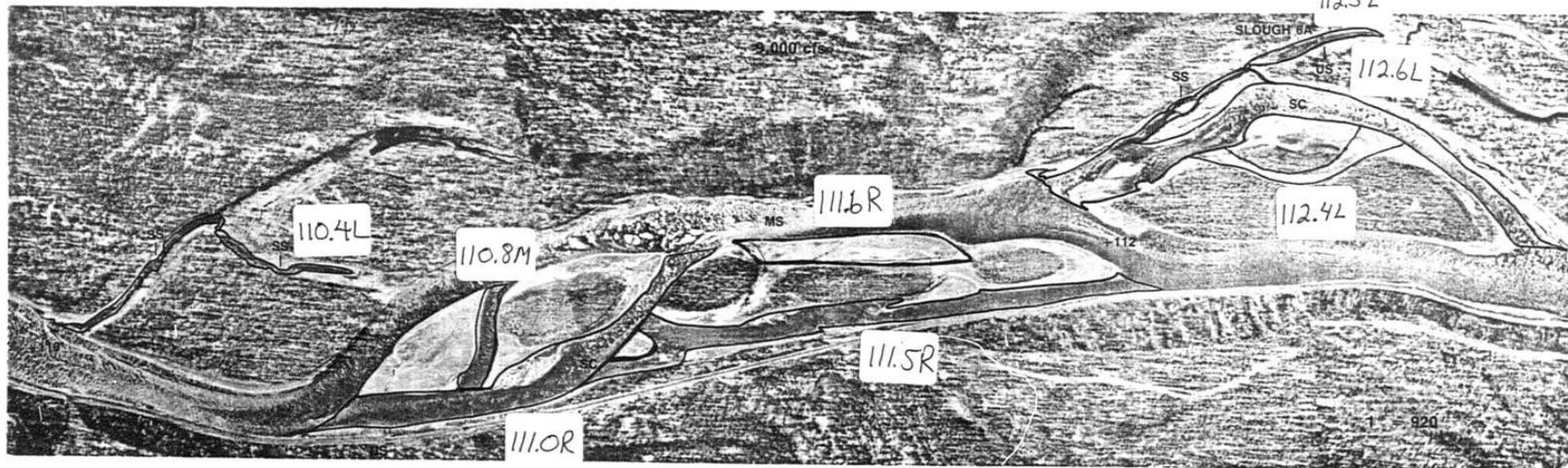
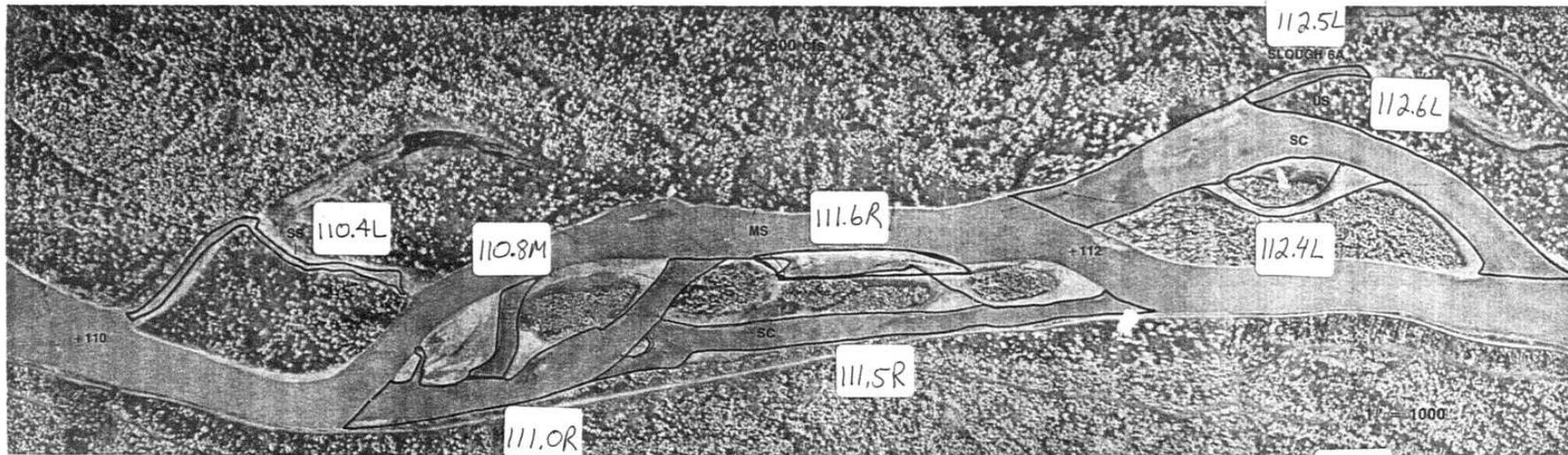


LEGEND	
MS	MAINSTEM
SC	SIDE CHANNEL
SS	SIDE SLOUGH
US	UPLAND SLOUGH
TM	TRIBUTARY MOUTH
T	TRIBUTARY
+	RIVER MILE

**MIDDLE SUSITNA RIVER**

PLATE 15 OF 18      RIVER MILE 108 TO 110

ALASKA POWER AUTHORITY SUSITNA HYDROELECTRIC PROJECT	
<b>EWT&amp;A</b> <small>WOODY TRIMBY &amp; ASSOCIATES</small>	<b>HARZA-EBASCO</b> SUSITNA JOINT VENTURE



**LEGEND**

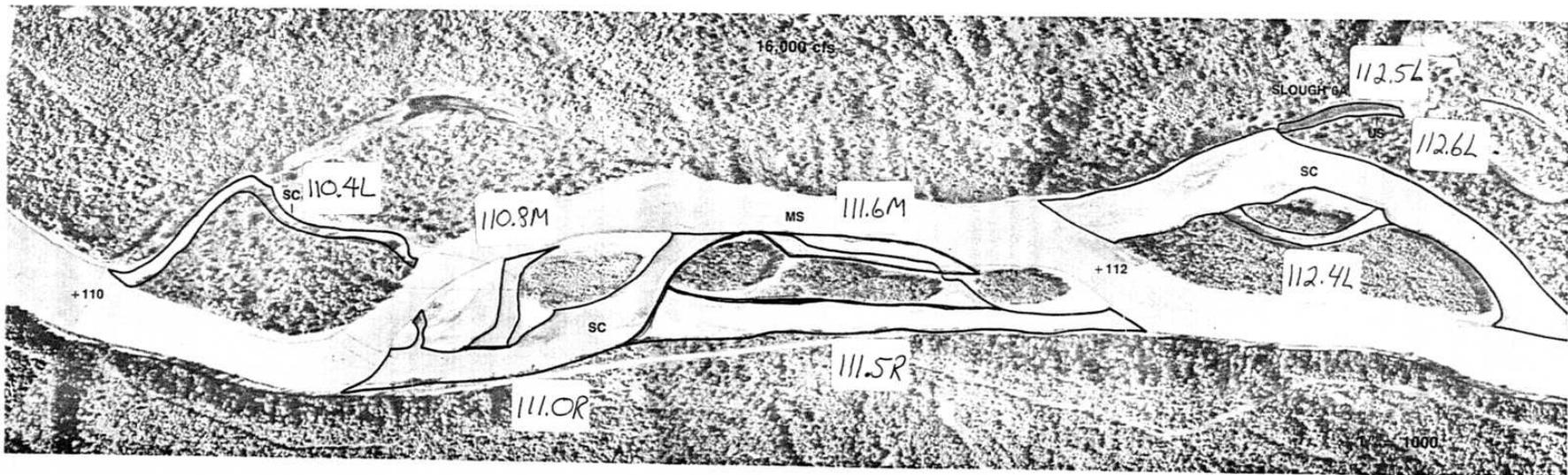
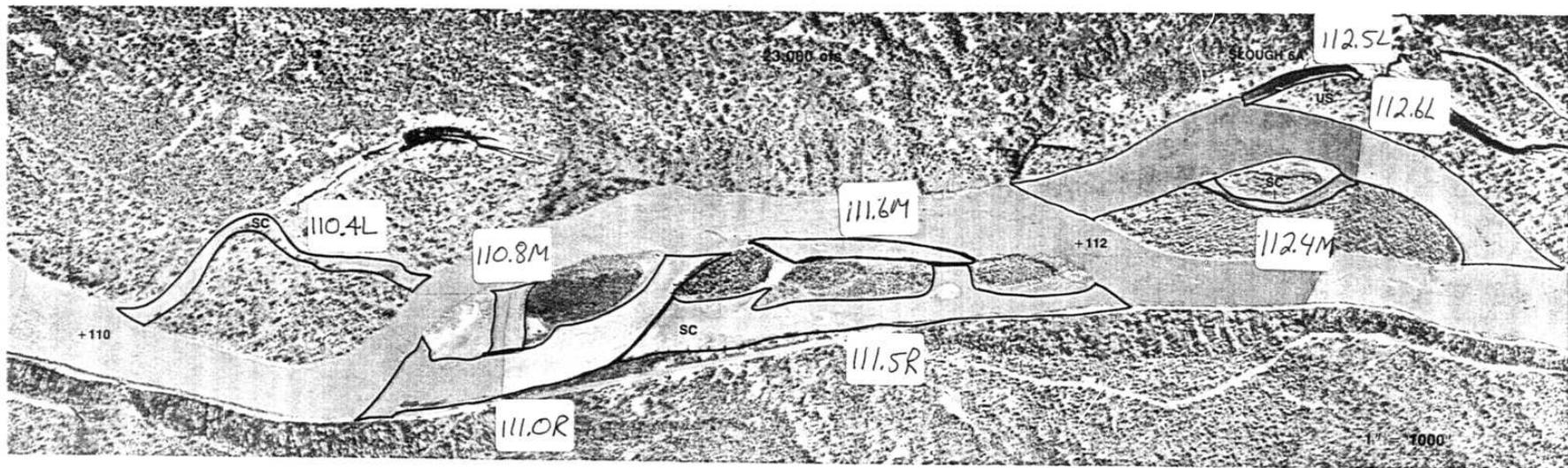
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SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

PLATE 14 OF 18 RIVER MILE 110 TO 112

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A** HARZA-EBASCO  
WOODRUFF TRIMBLE & ASSOCIATES, INC. SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINS'EM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

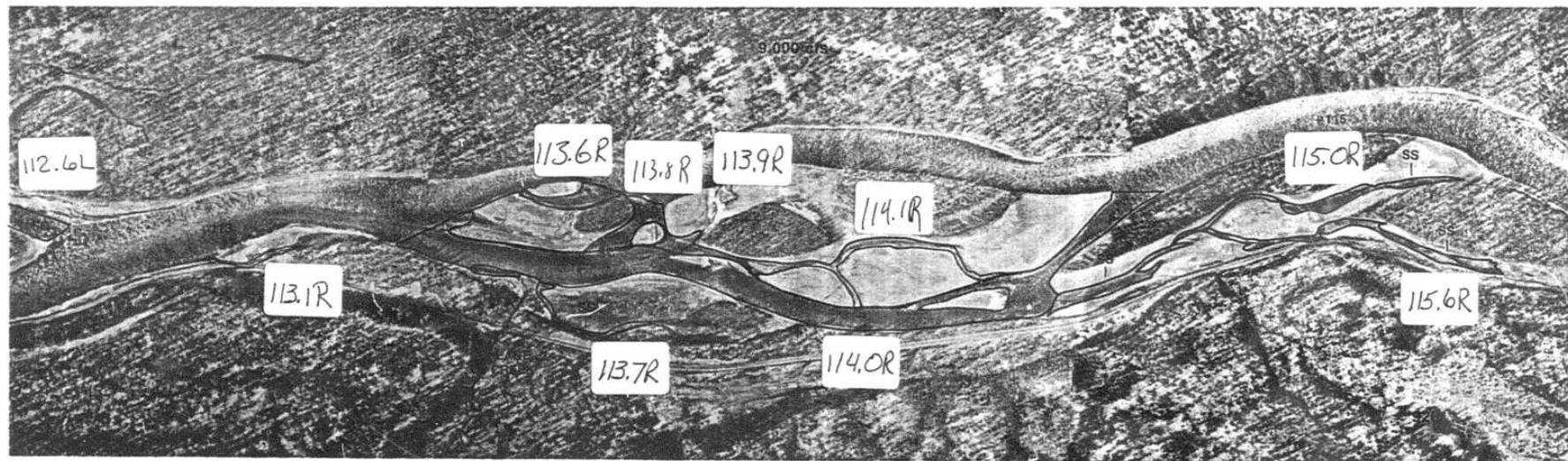
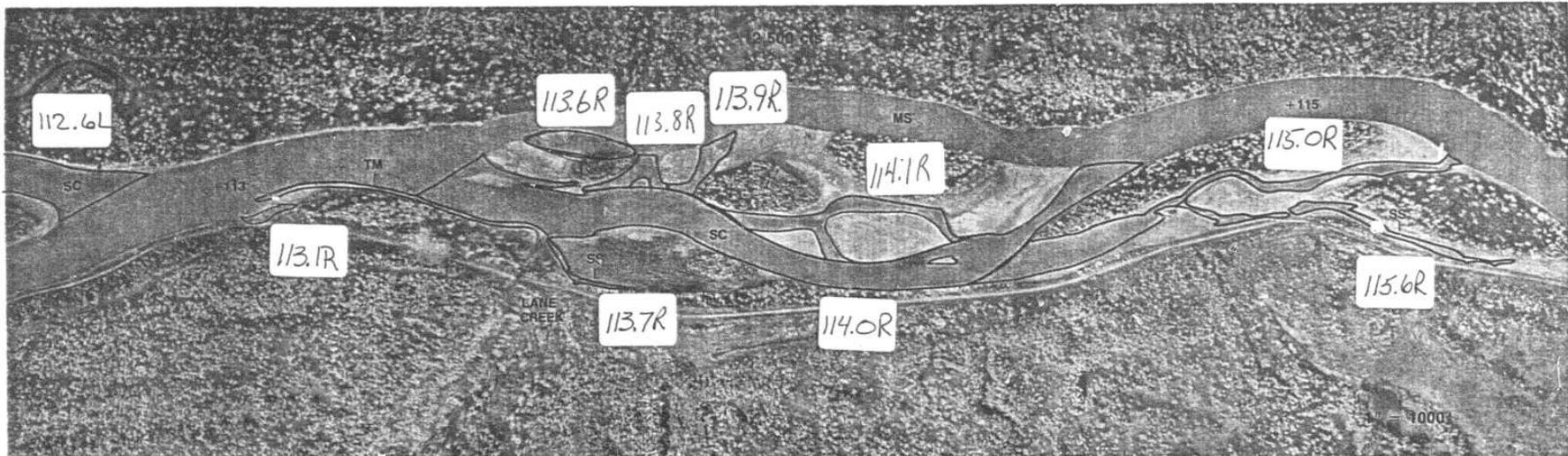
**MIDDLE SUSITNA RIVER**

PLATE 14 OF 18 RIVER MILE 110 TO 112

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**  
ENGINEERING, TRIMBLE & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

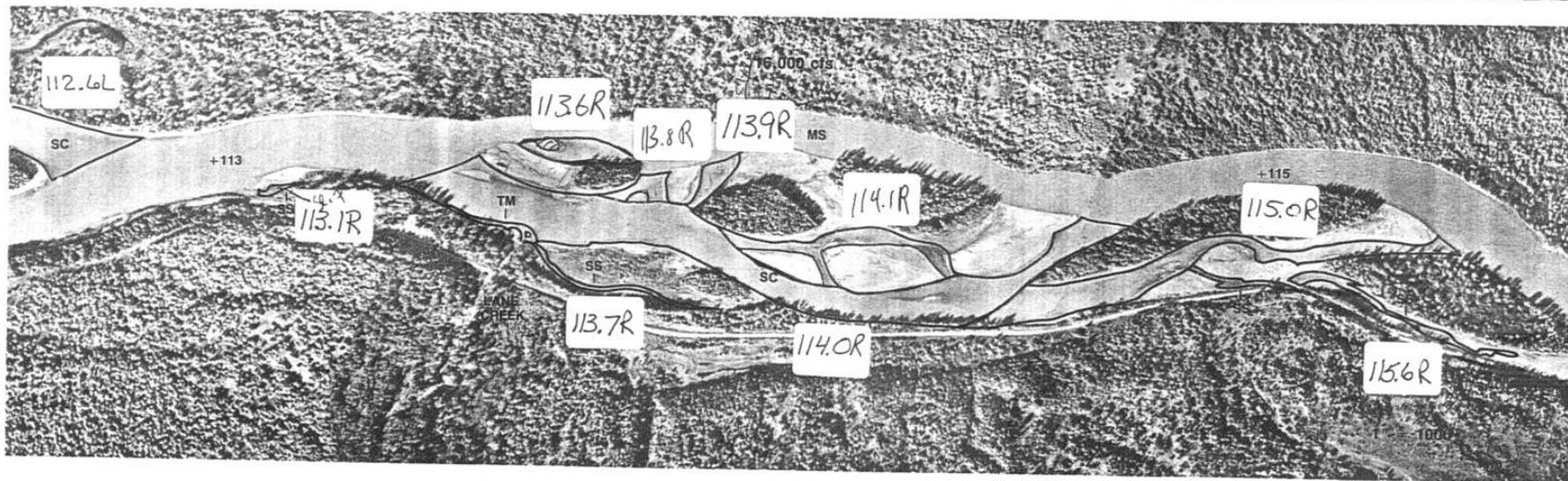
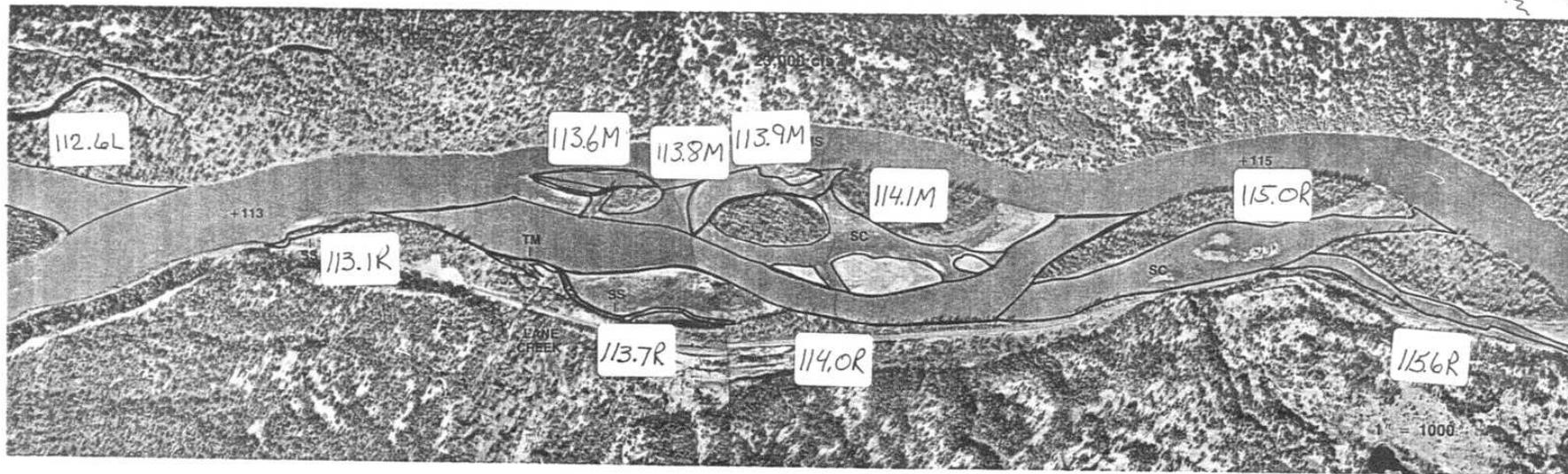
**MIDDLE SUSITNA RIVER**

PLATE 13 OF 18 RIVER MILE 113 TO 115

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**  
WOODS BROS. & SONS, L.L.C.

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

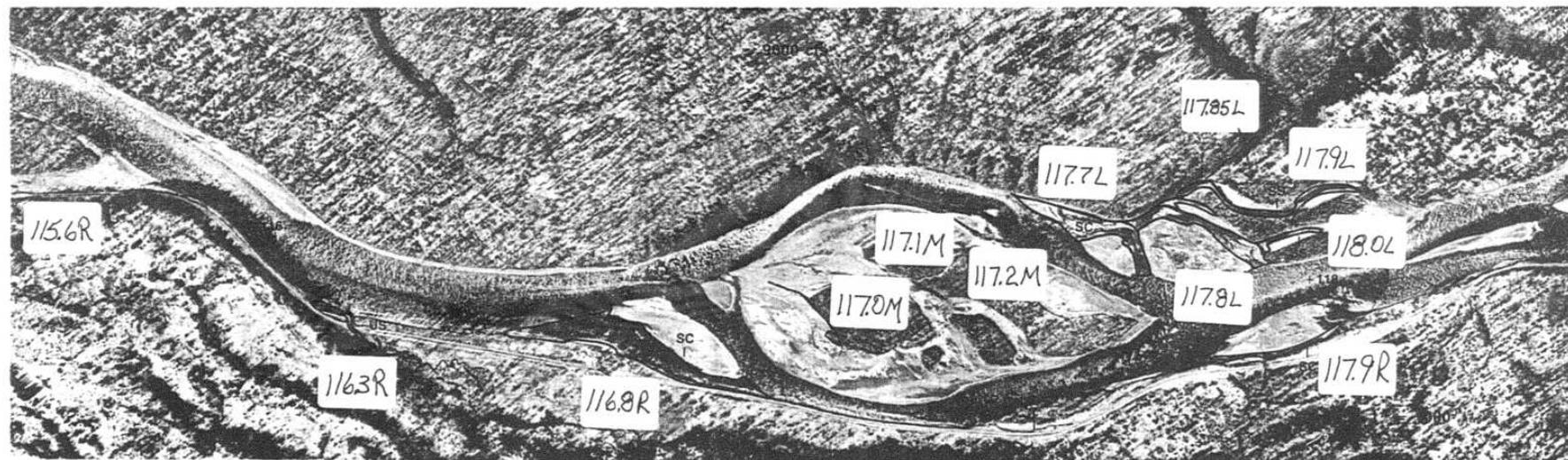
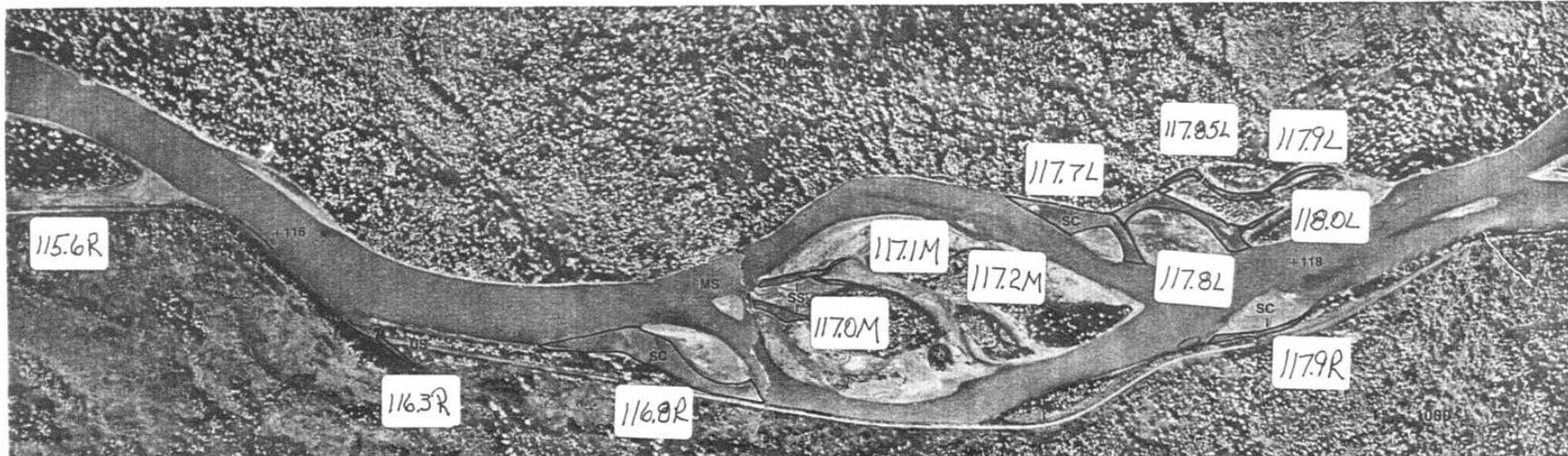
**MIDDLE SUSITNA RIVER**

PLATE 13 OF 18 RIVER MILE 113 TO 115

**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

**EWTA**  
E. WOODY TRIMBY & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

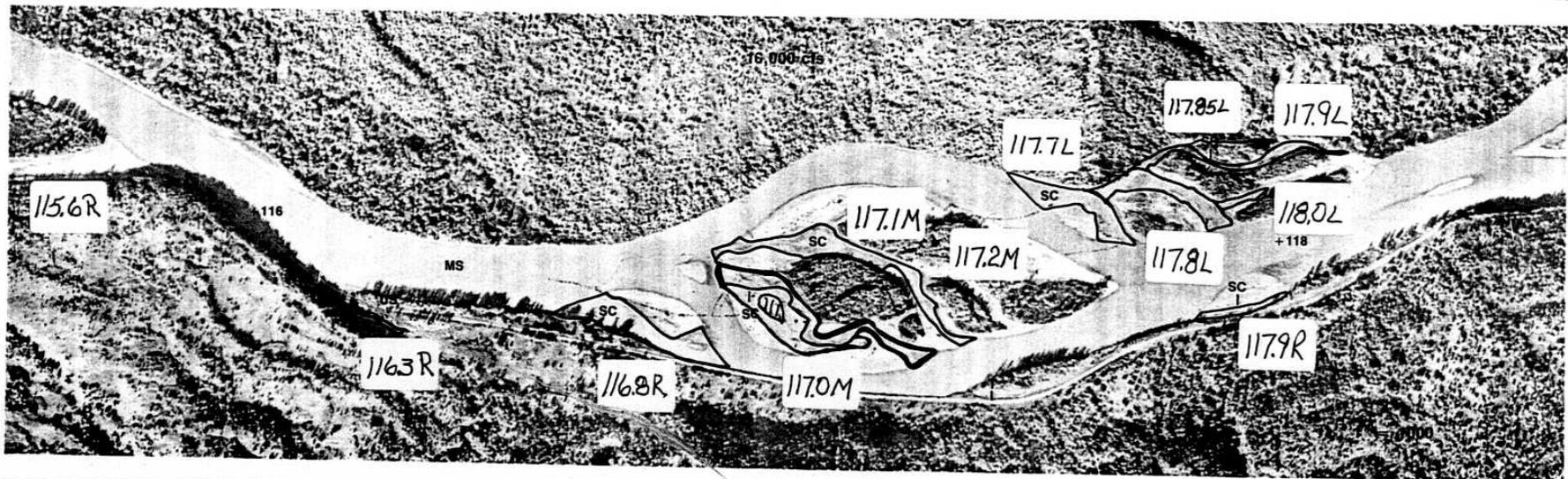
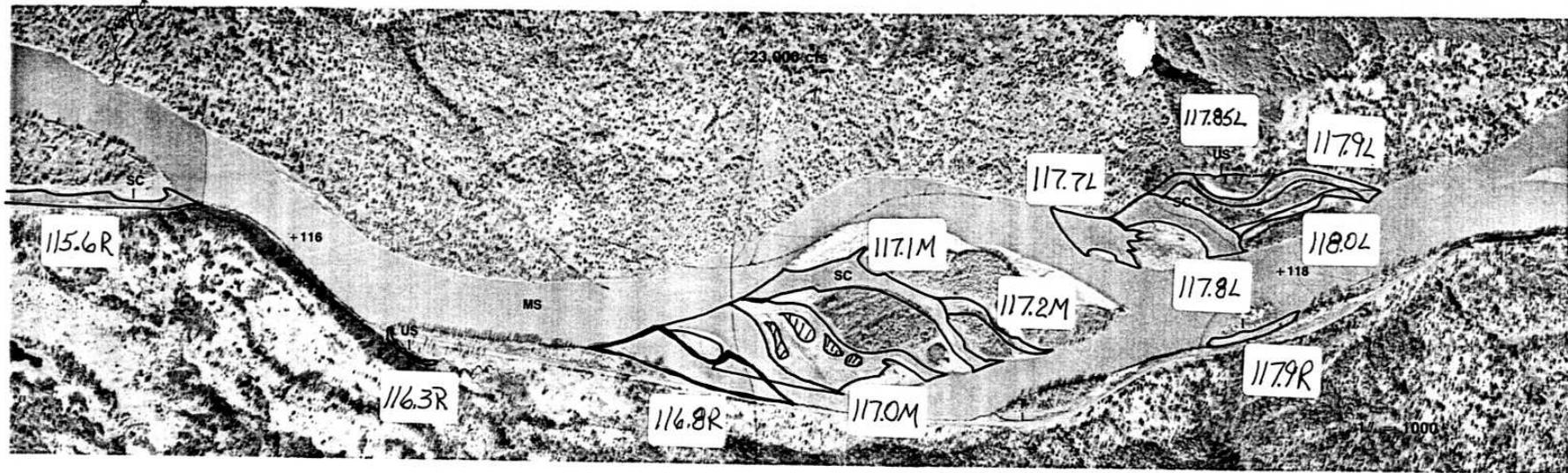
**MIDDLE SUSITNA RIVER**

PLATE 12 OF 18 RIVER MILE 116 TO 118

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EW&A**  
WOODY FRISBY & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

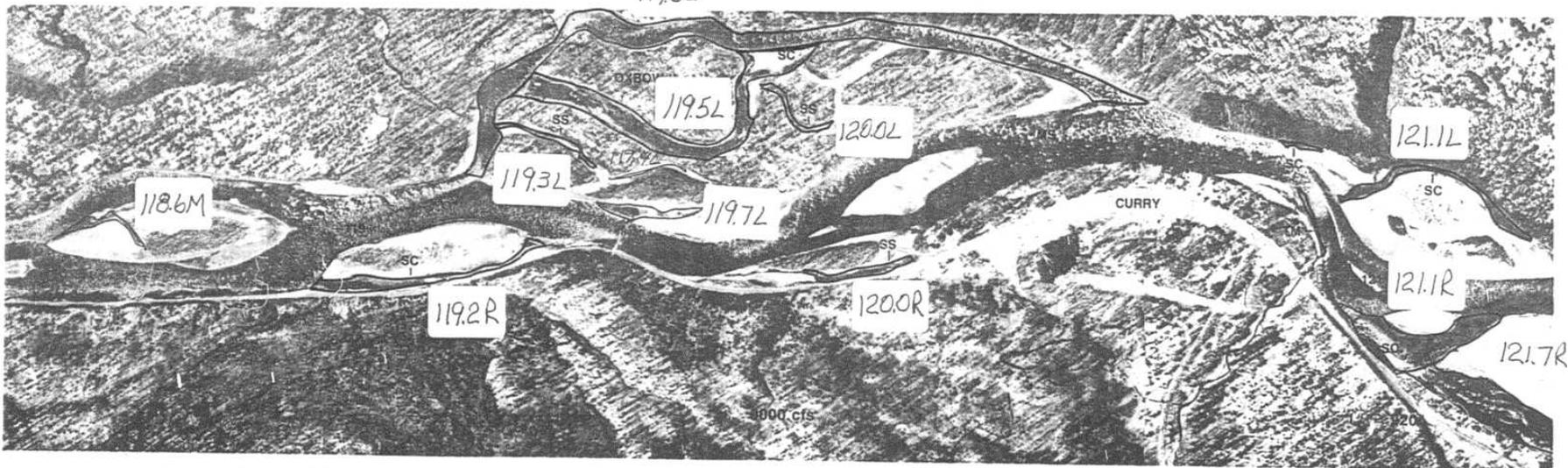
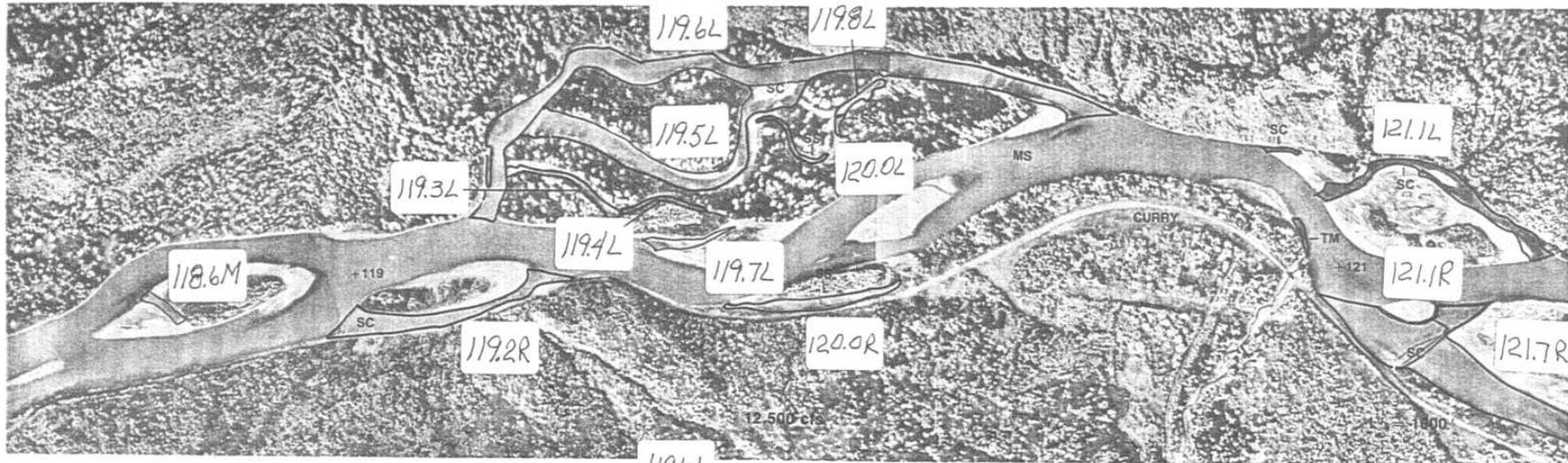
PLATE 12 OF 18

RIVER MILE 116 TO 118

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWI&A**  
WILSON ENGINEERING & ARCHITECTURE

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

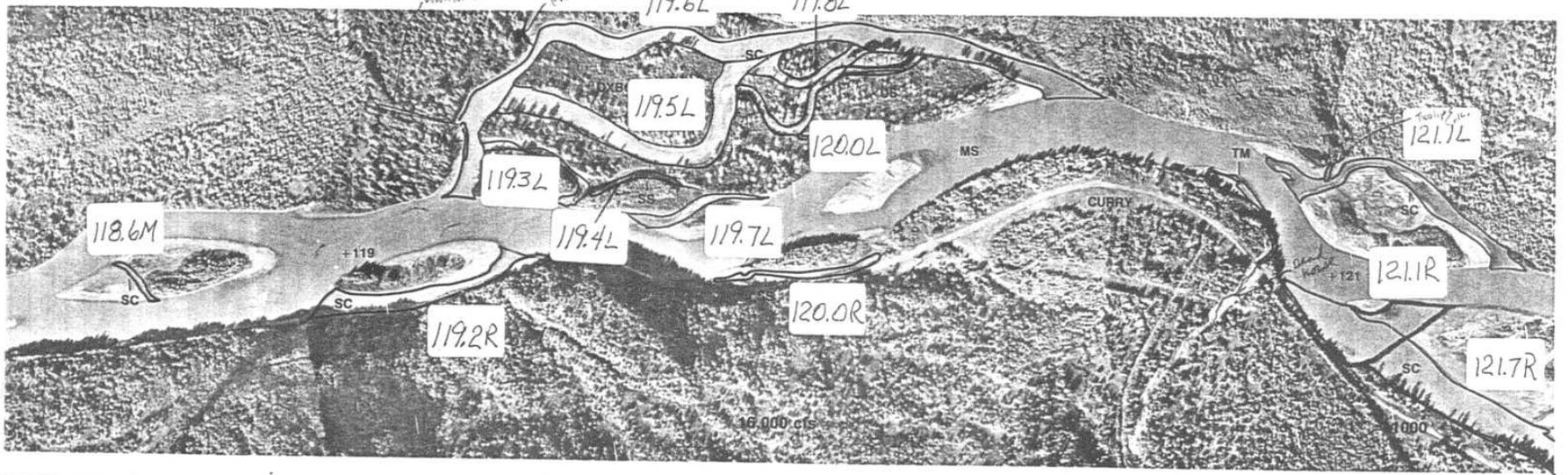
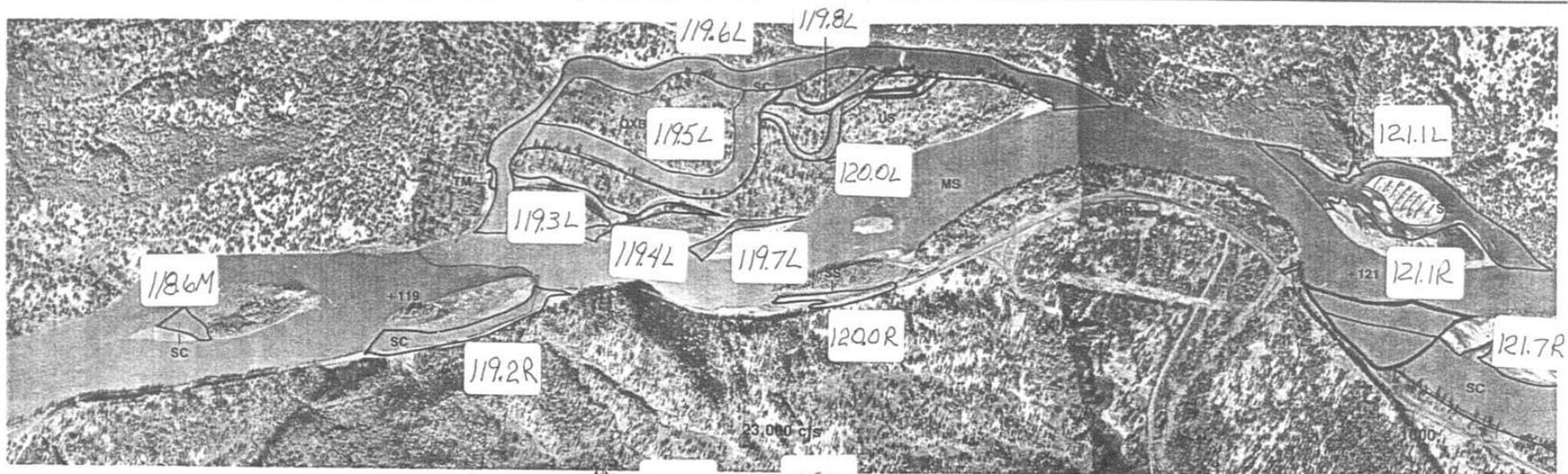
**MIDDLE SUSITNA RIVER**

PLATE 11 OF 18 RIVER MILE 119 TO 121

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**  
WOODS, TRENEY & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

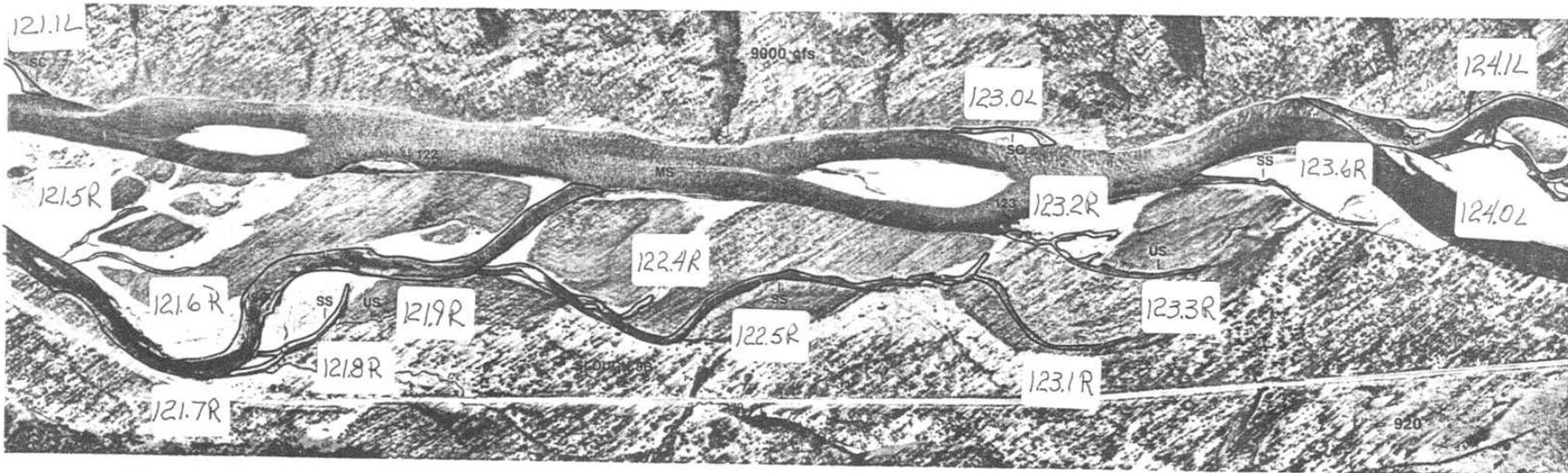
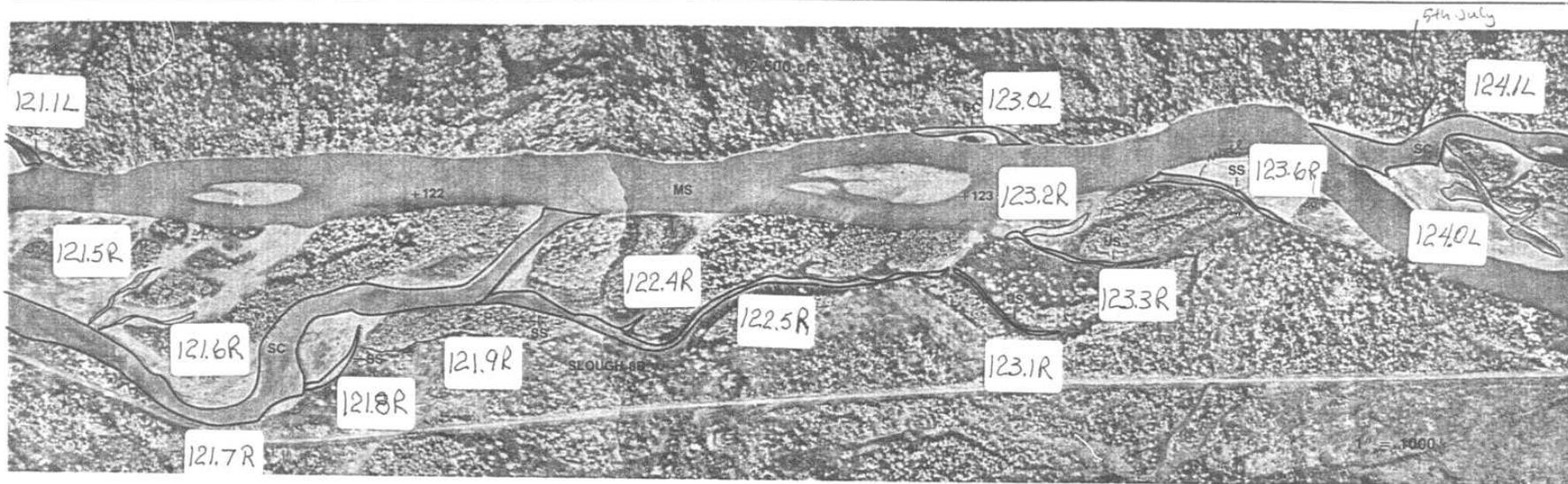
MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

**MIDDLE SUSITNA RIVER**

PLATE 11 OF 18      RIVER MILE 119 TO 121

**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

<b>EWT&amp;A</b> <small>ENGINEERING, WATER, TRIBUTARY &amp; TRANSPORTATION</small>	<b>HARZA-EBASCO</b> <small>SUSITNA JOINT VENTURE</small>
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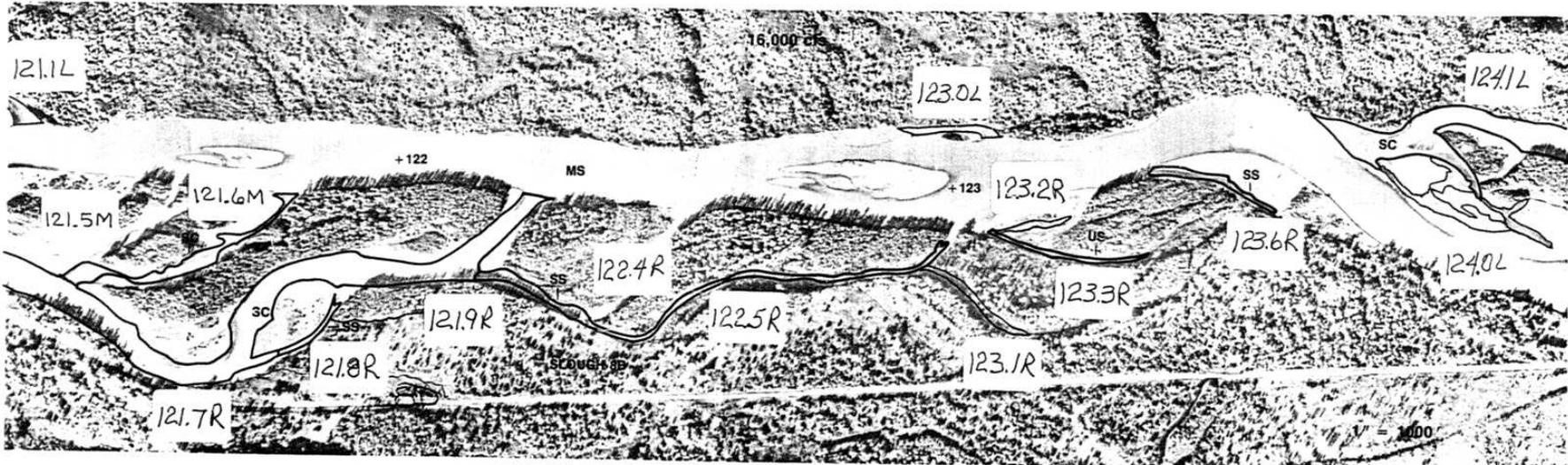
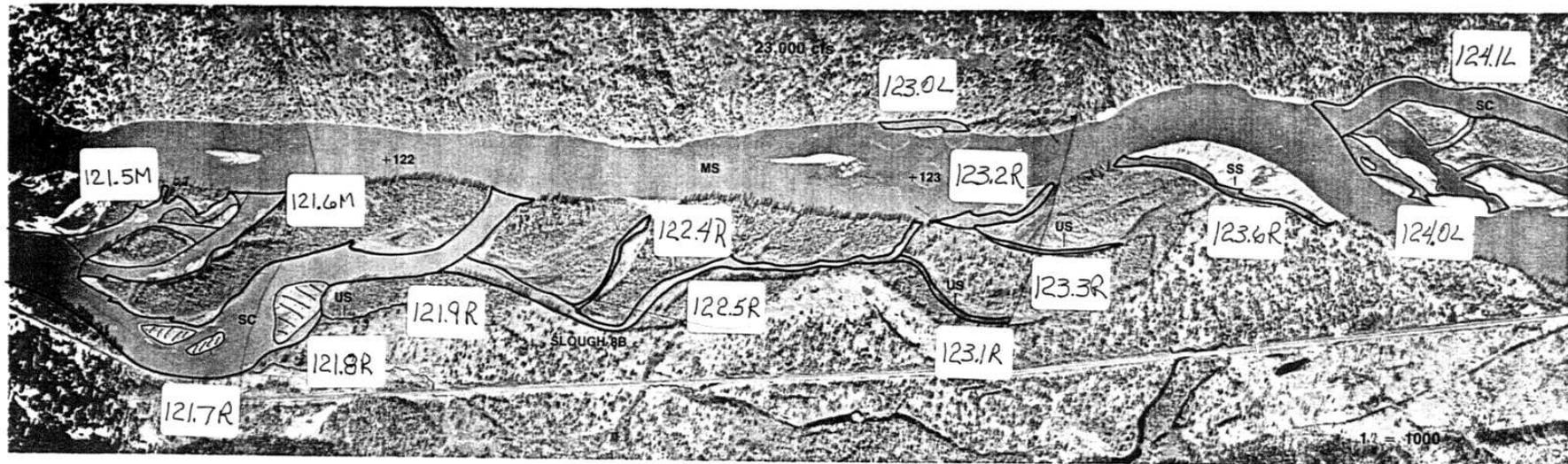
MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

PLATE 10 OF 18      RIVER MILE 122 TO 124

**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

<b>EWT&amp;A</b> <small>• WOODY TRIMBY • ASSOCIATES</small>	<b>HARZA-EBASCO</b> SUSITNA JOINT VENTURE
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**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

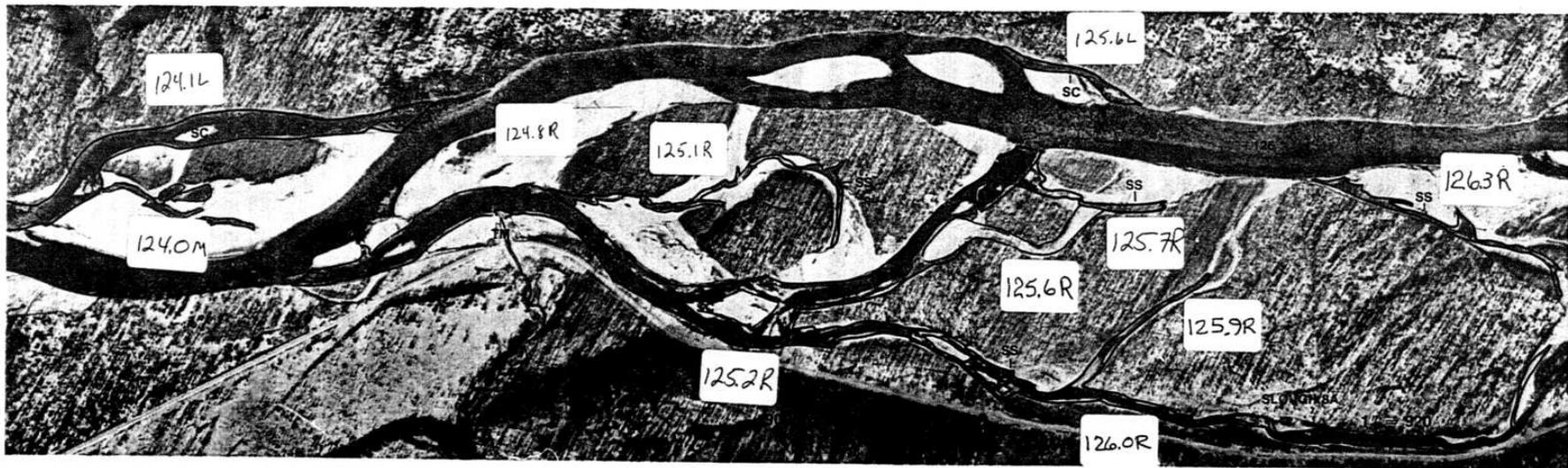
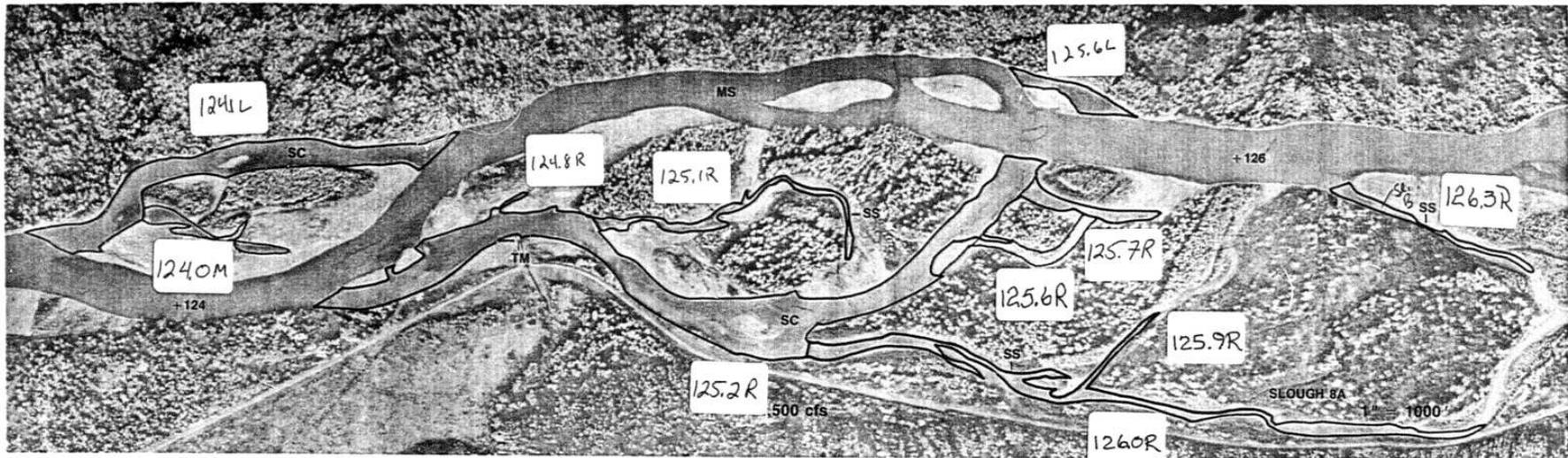
**MIDDLE SUSITNA RIVER**

PLATE 10 OF 18 RIVER MILE 122 TO 124

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWTA**  
WOODY TRIMBY & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

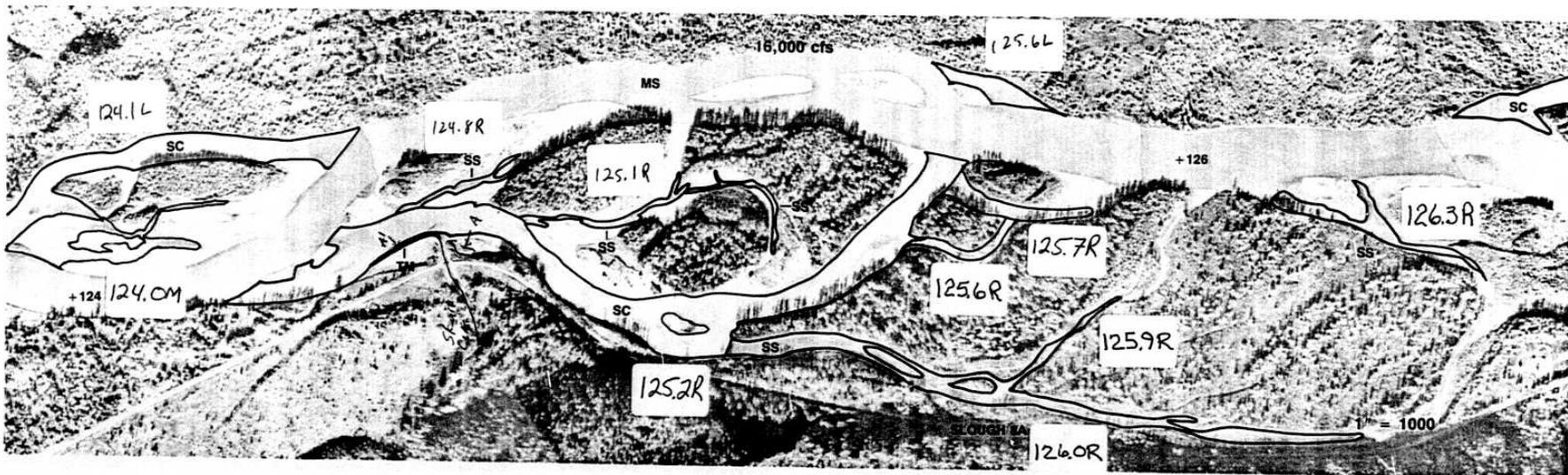
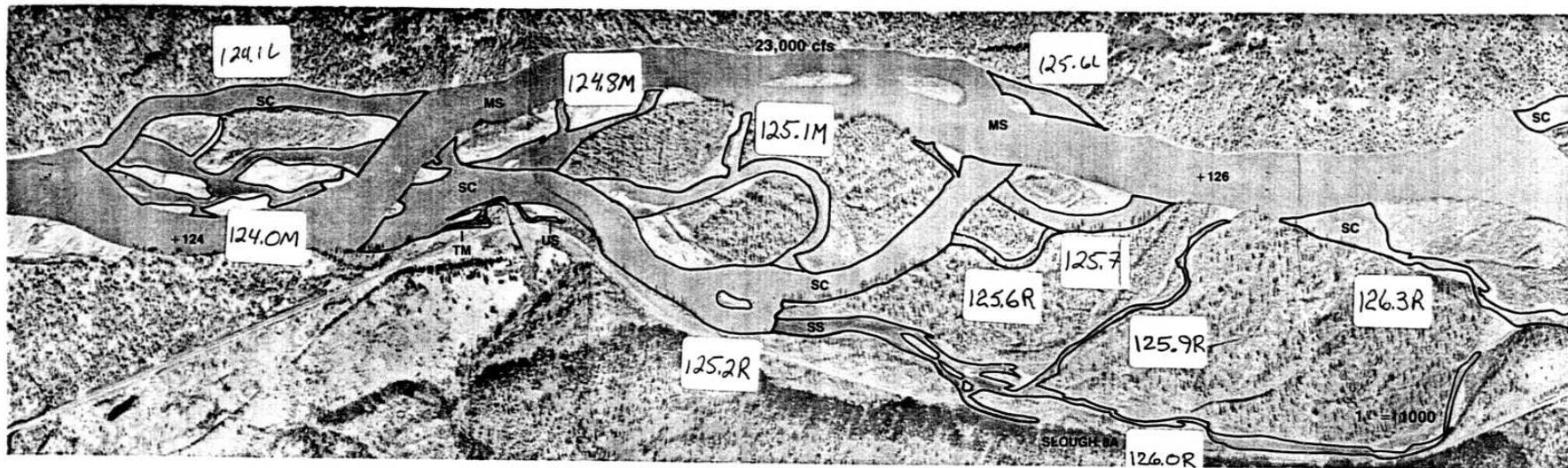
PLATE 9 OF 18

RIVER MILE 124 TO 126

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EW&A**  
WOODY TRIMBY & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



#### LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

#### MIDDLE SUSITNA RIVER

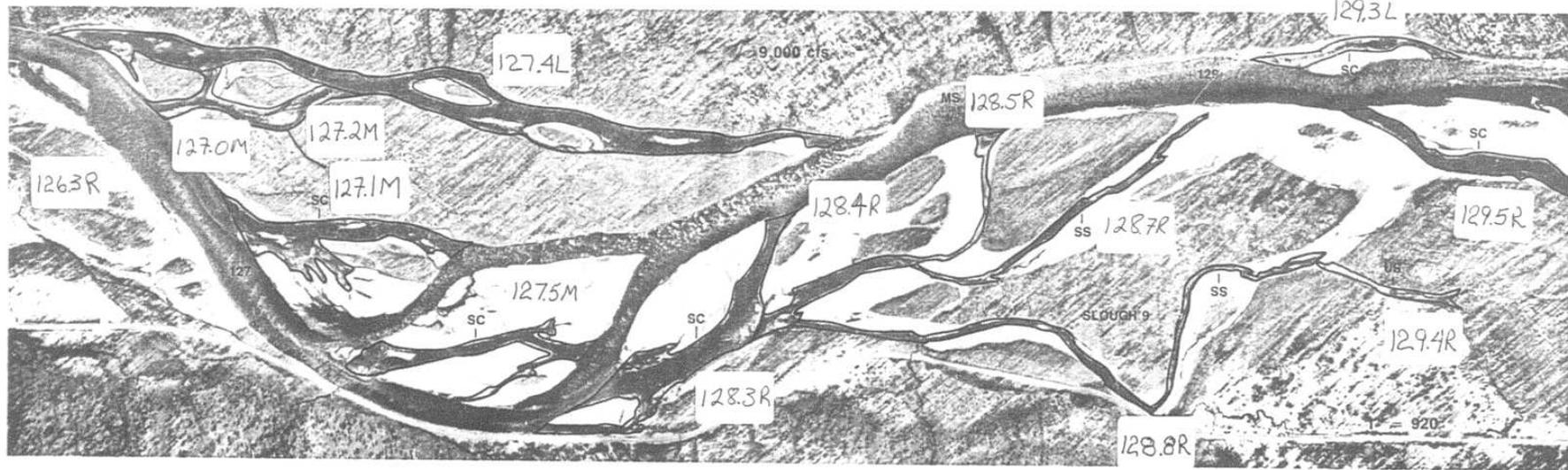
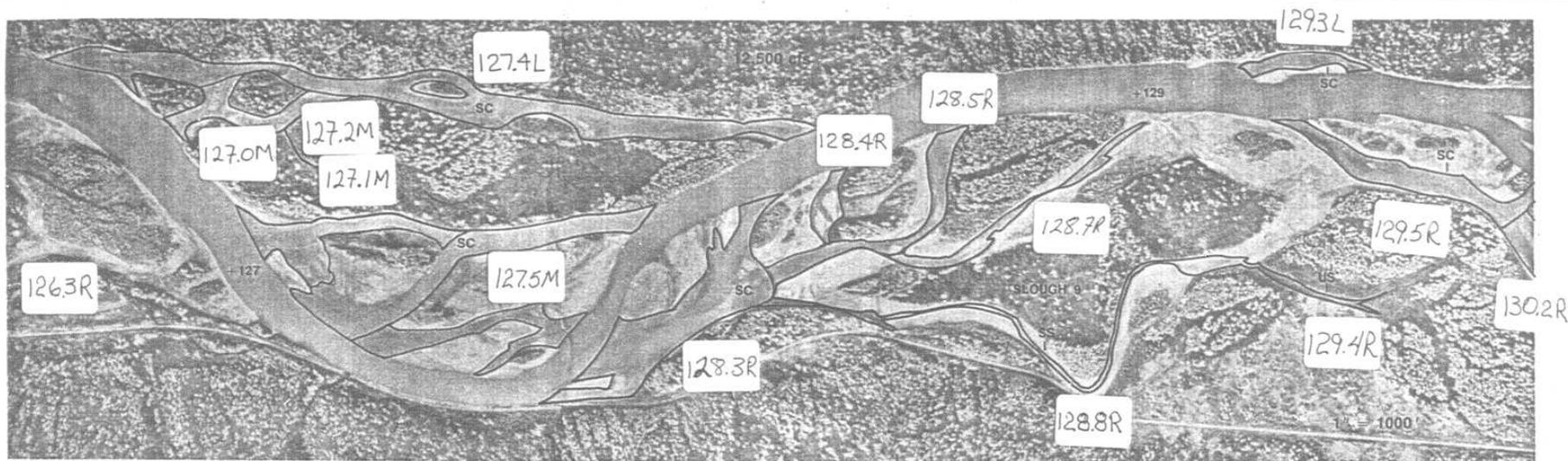
PLATE 9 OF 18

RIVER MILE 124 TO 126

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWI&A**  
WOODY EMMETT & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

**MIDDLE SUSITNA RIVER**

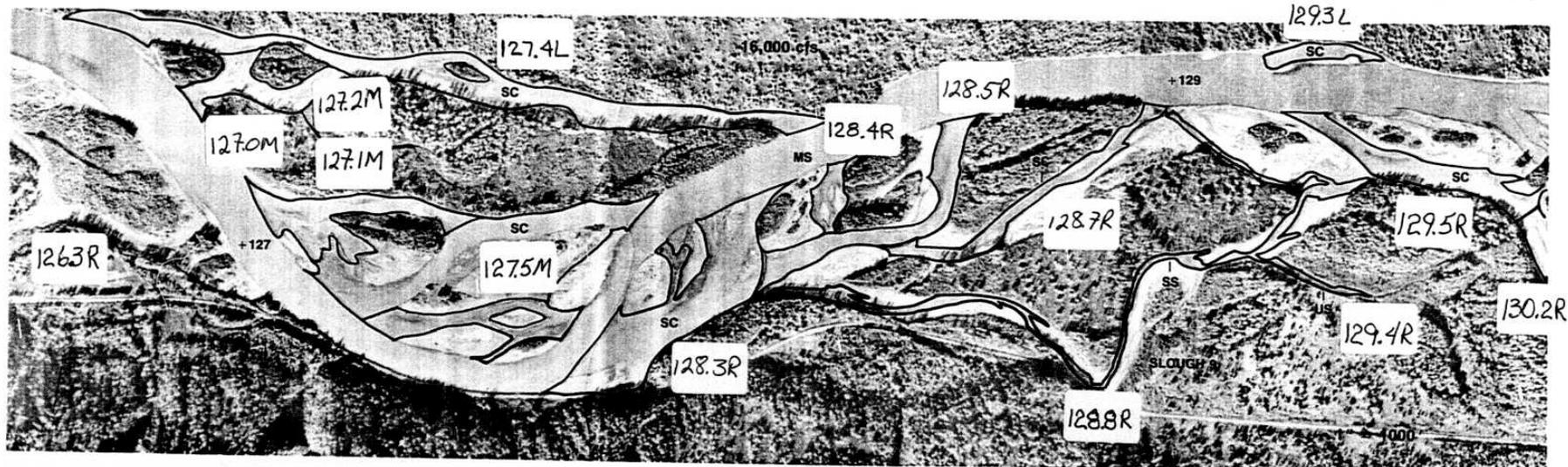
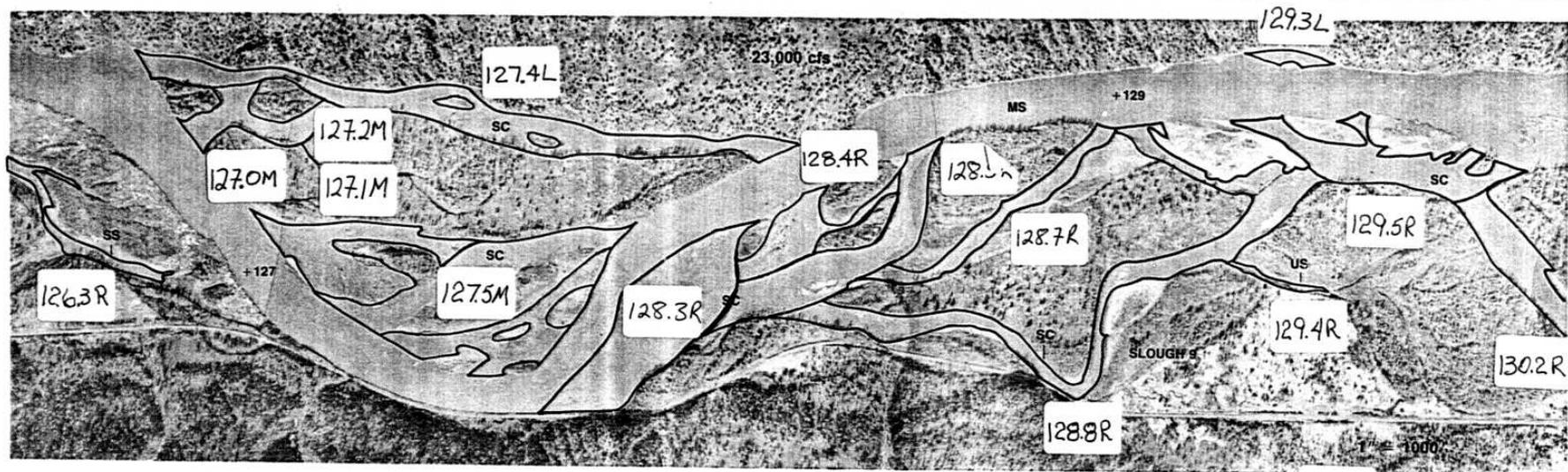
PLATE 8 OF 18

RIVER MILE 127 TO 129

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**  
ENGINEERING, TESTING & ARCHITECTURE

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

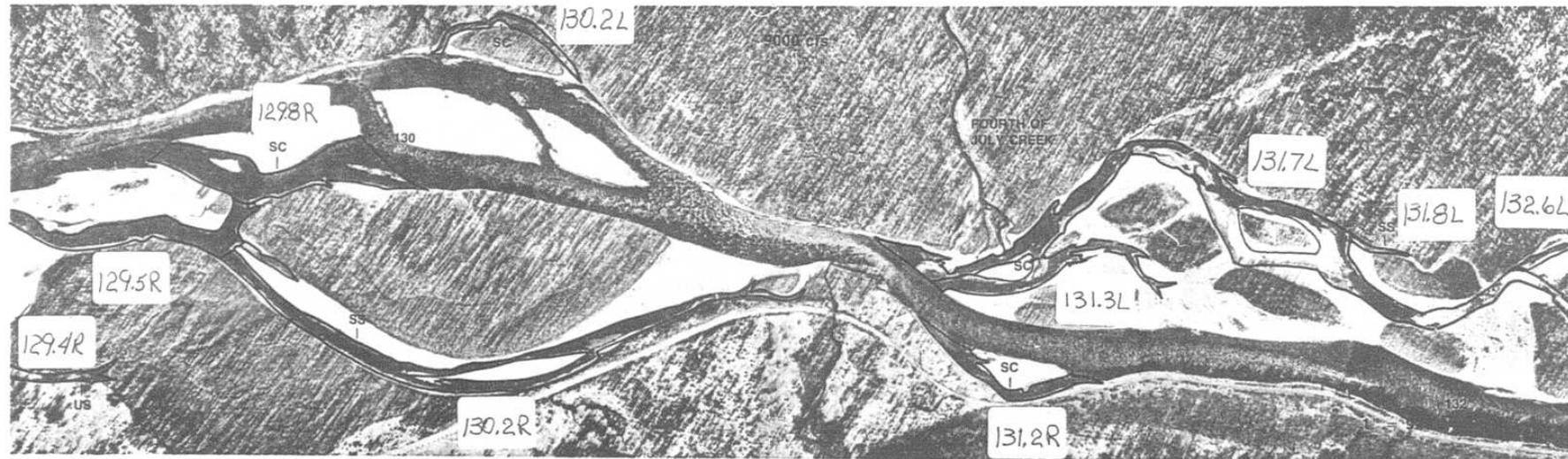
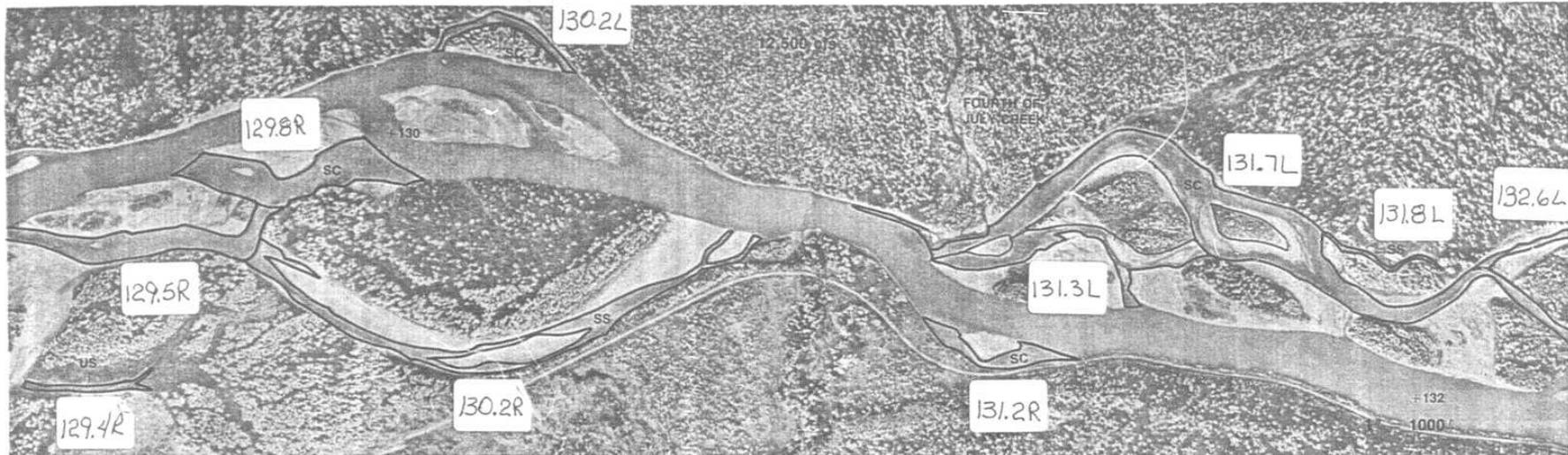
PLATE 8 OF 18

RIVER MILE 127 TO 129

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWTA**  
WOODS BROS. & COMPANY

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

- |    |               |    |                 |
|----|---------------|----|-----------------|
| MS | MAINSTEM      | TM | TRIBUTARY MOUTH |
| SC | SIDE CHANNEL  | T  | TRIBUTARY       |
| SS | SIDE SLOUGH   | +  | RIVER MILE      |
| US | UPLAND SLOUGH |    |                 |

**MIDDLE SUSITNA RIVER**

PLATE 7 OF 18

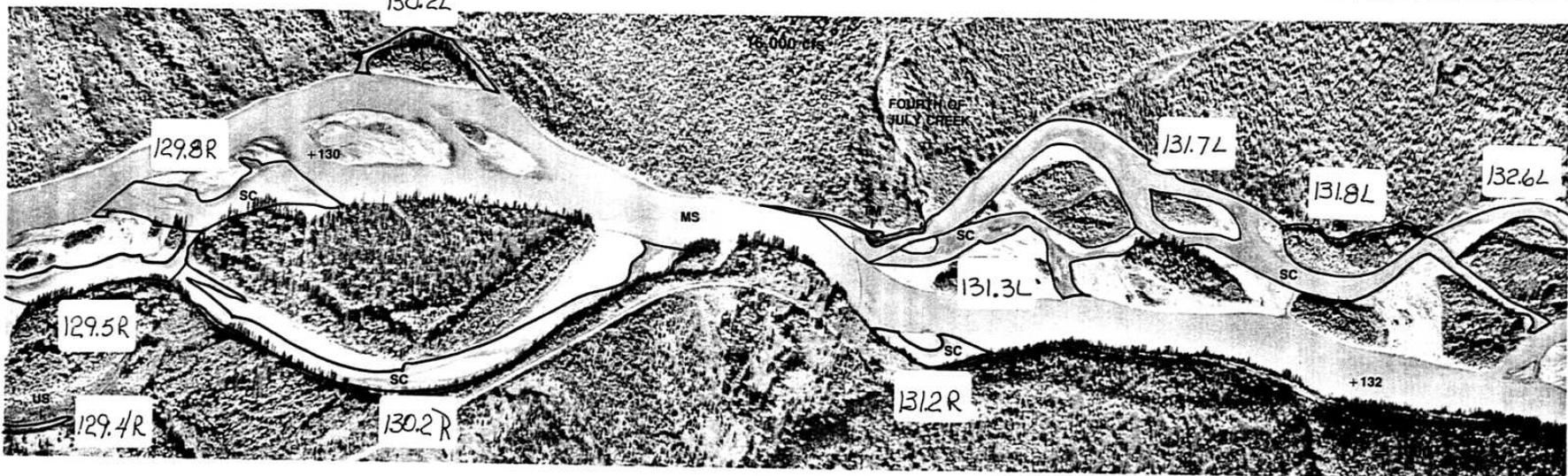
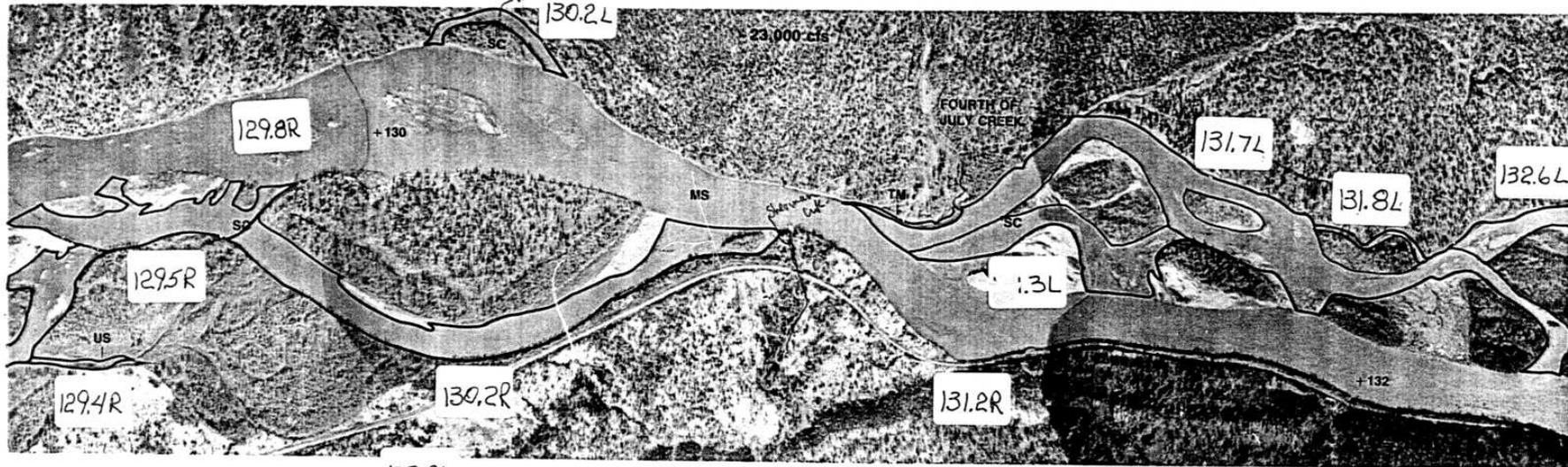
RIVER MILE 130 TO 132

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EW&A**  
WINDY RIDGES & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE





**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

PLATE 7 OF 18

RIVER MILE 130 TO 132

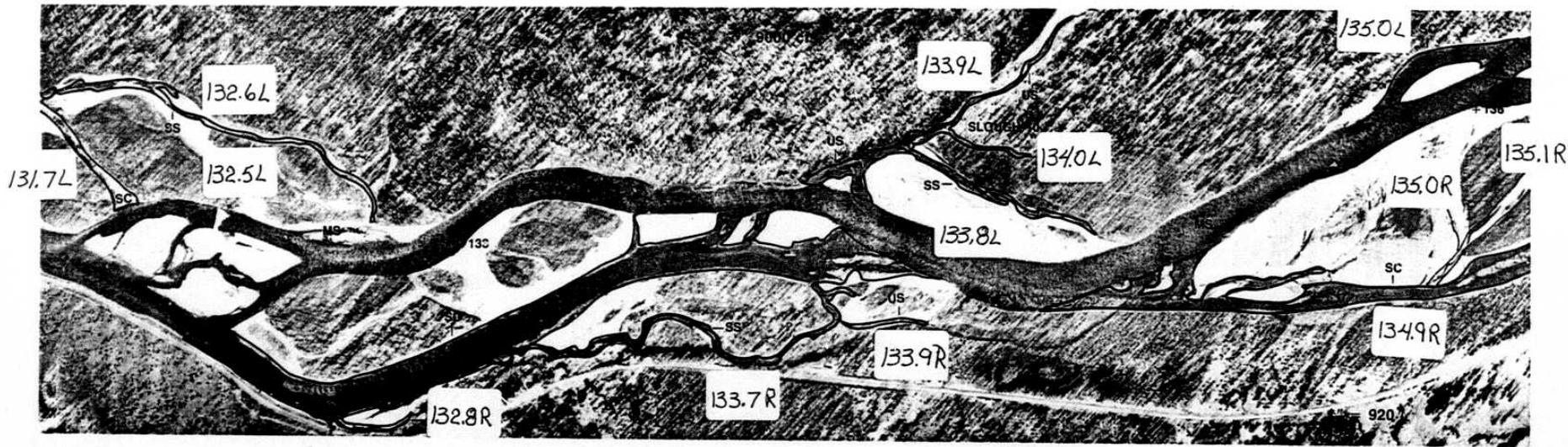
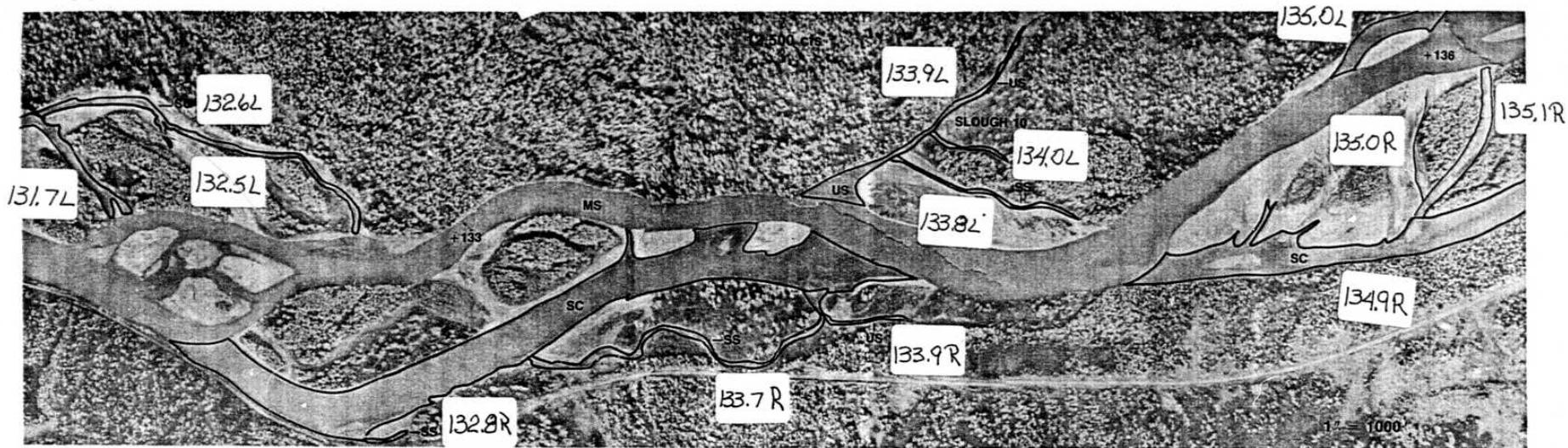
**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**

**HARZA-EBASCO**

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© 1980 HARZA-EBASCO



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

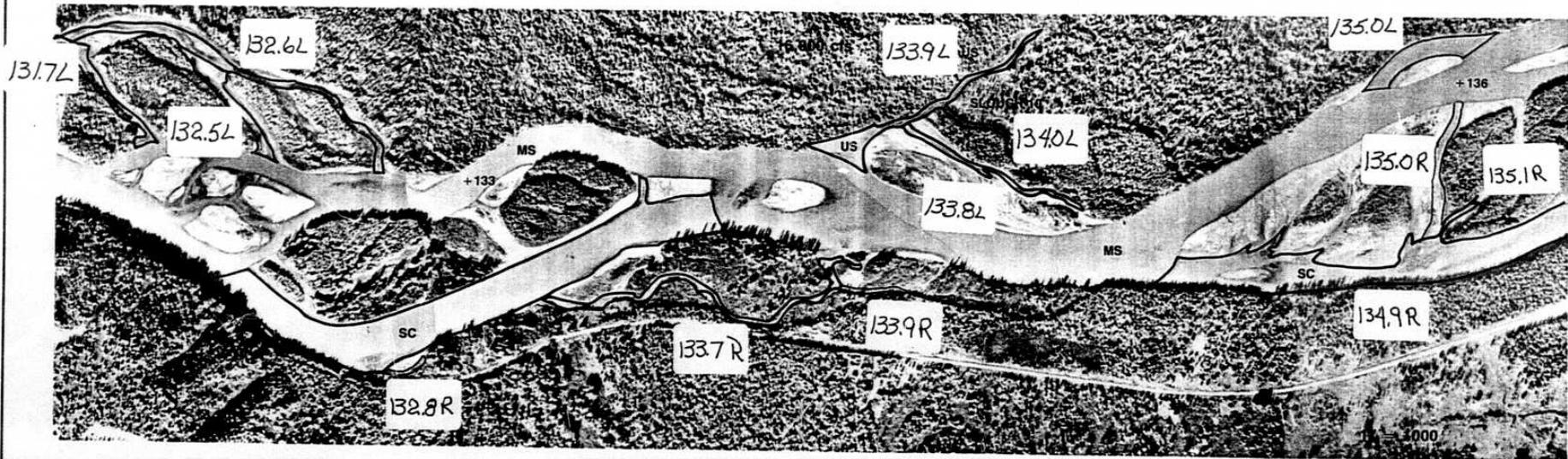
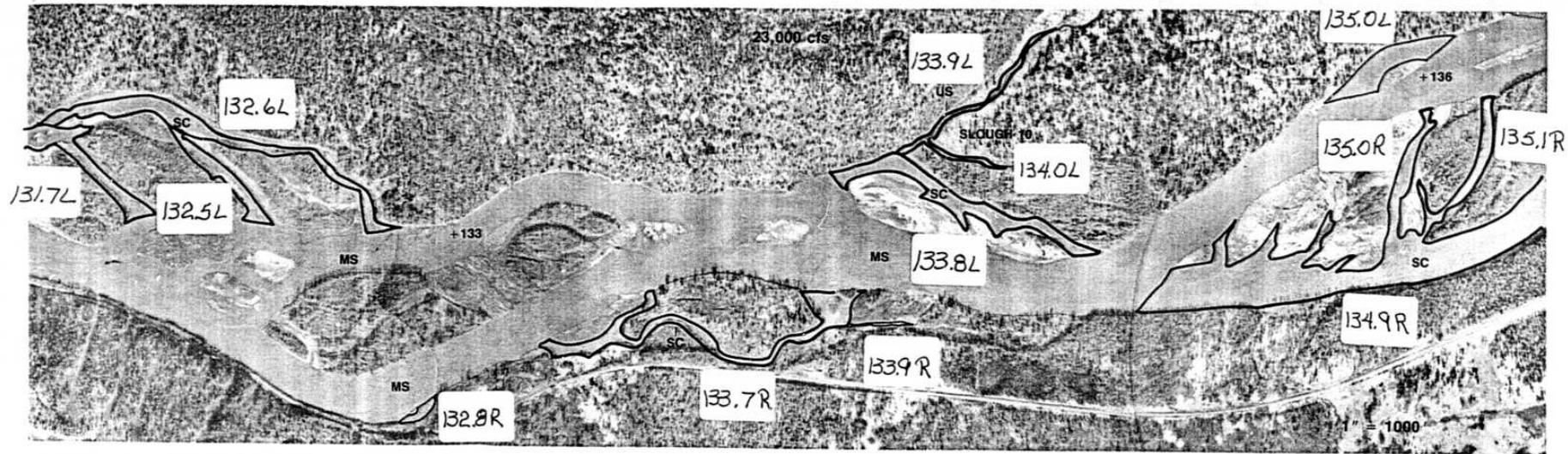
**MIDDLE SUSITNA RIVER**

PLATE 6 OF 18      RIVER MILE 133 TO 136

**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

**EWI&A**  
WOODY TRIMBY & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

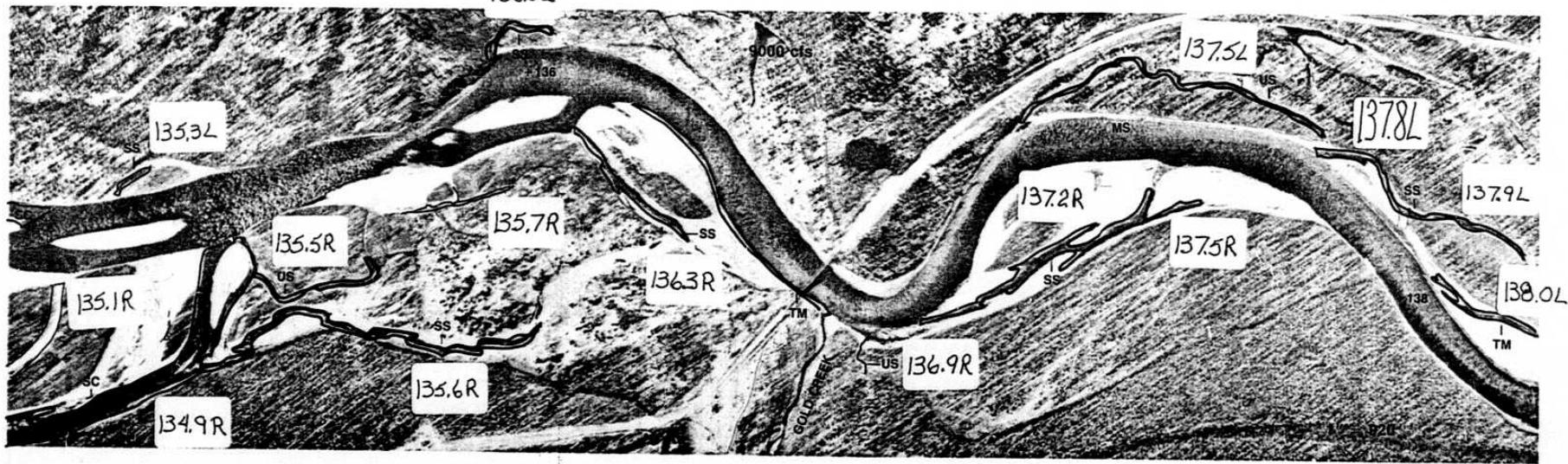
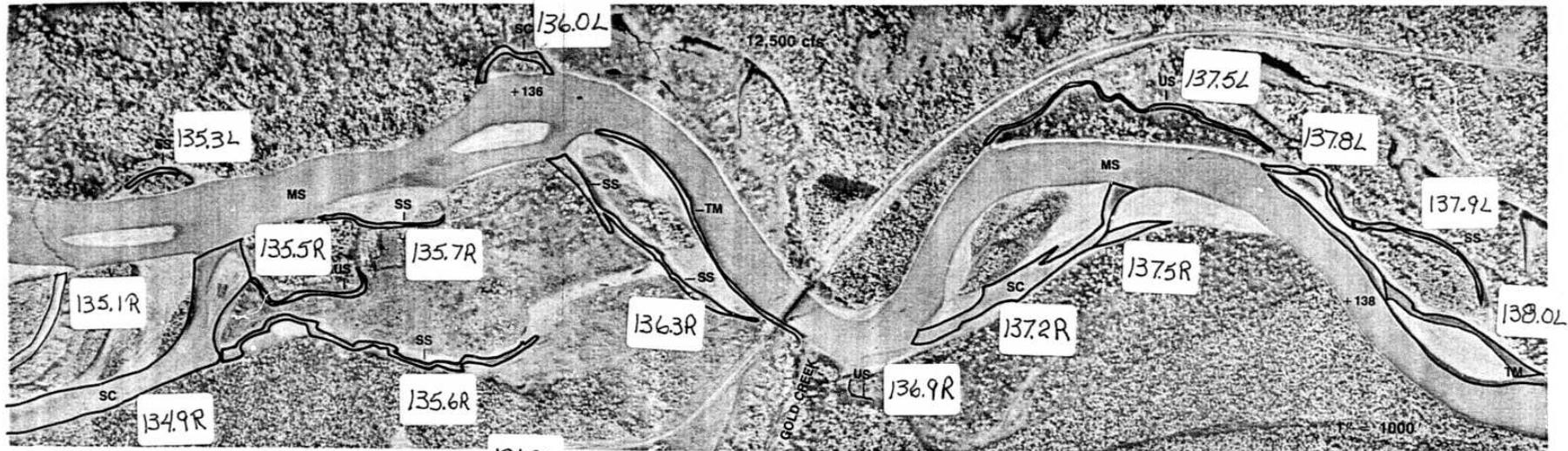
**MIDDLE SUSITNA RIVER**

PLATE 6 OF 18 RIVER MILE 133 TO 136

**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

**EW&A**  
WOODRUFF TRIMBY & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

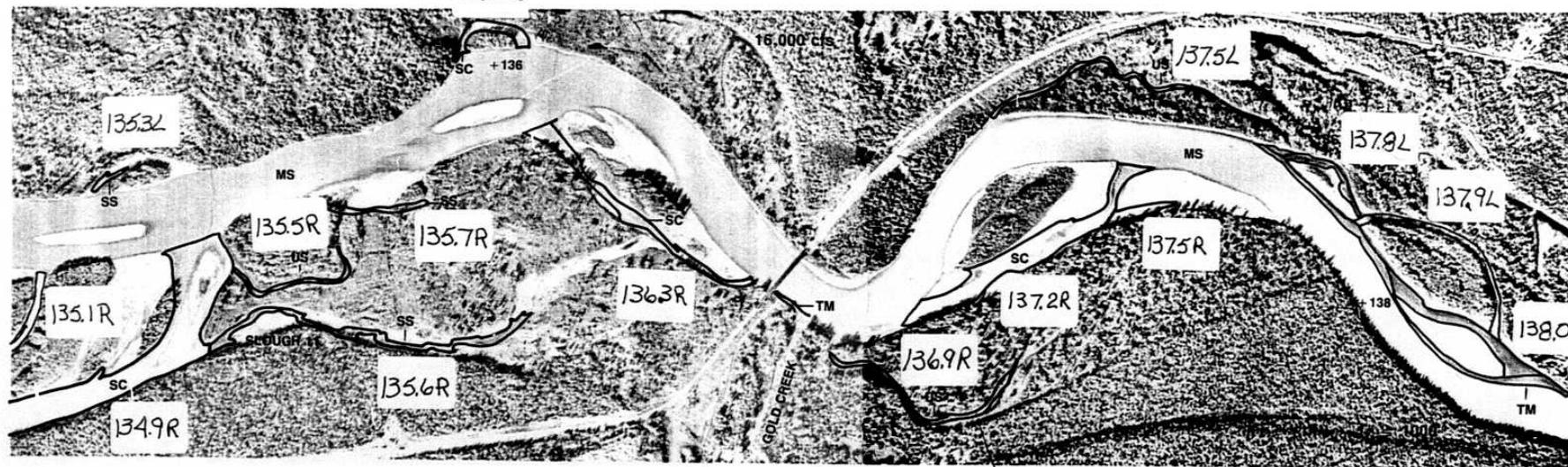
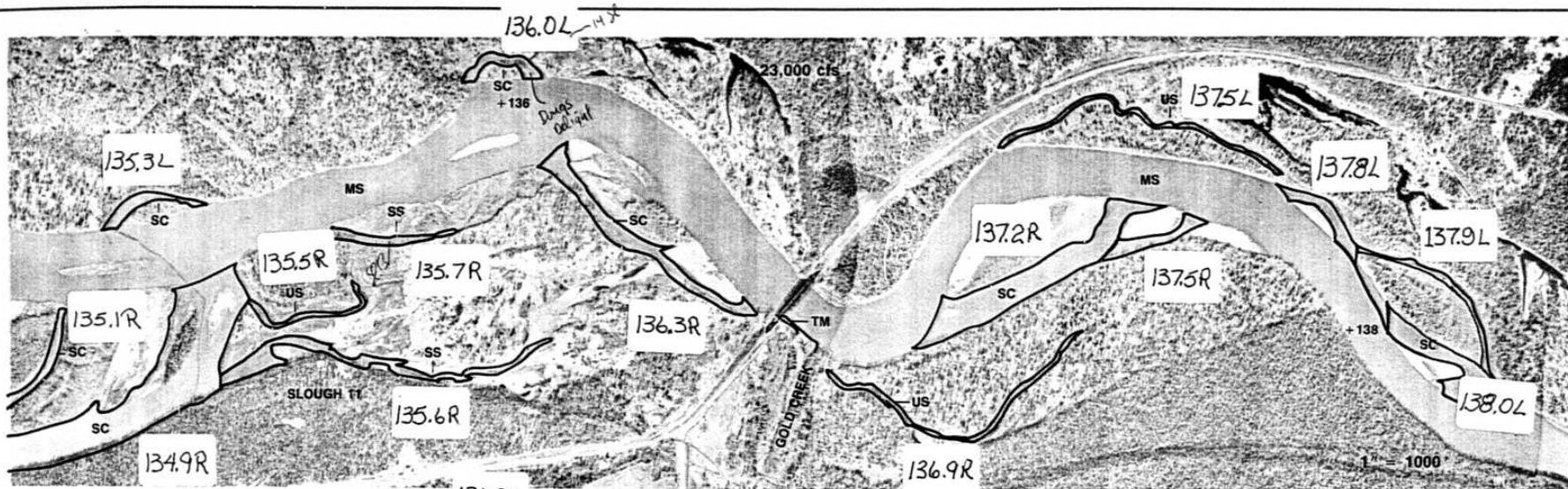
PLATE 5 OF 18

RIVER MILE 136 TO 138

**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**  
WOODY TRIMBLE & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

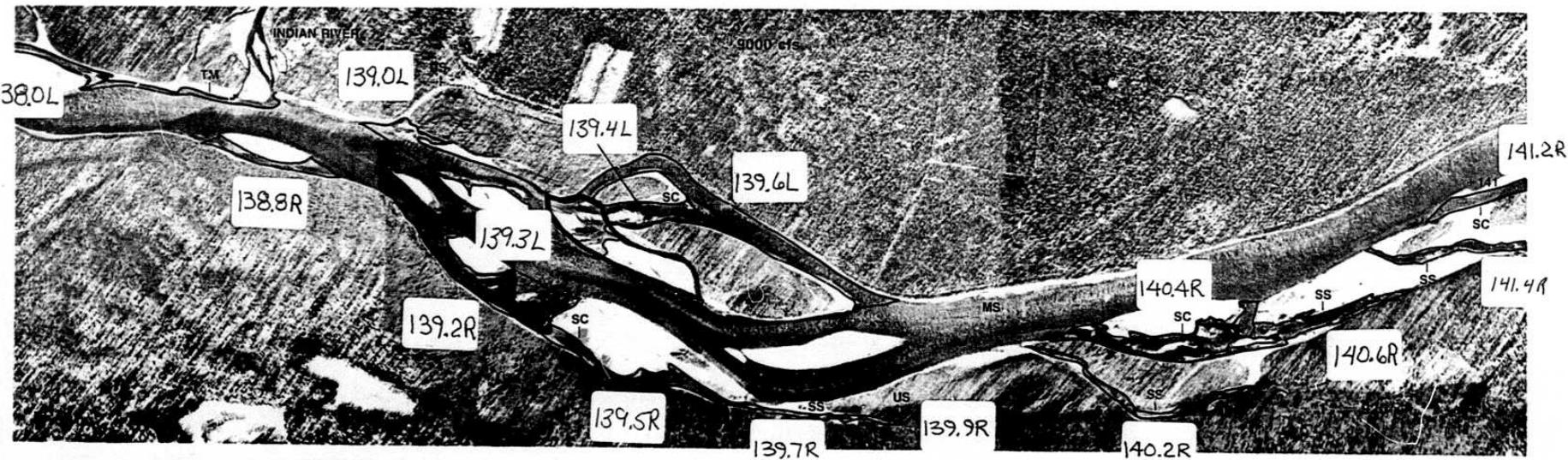
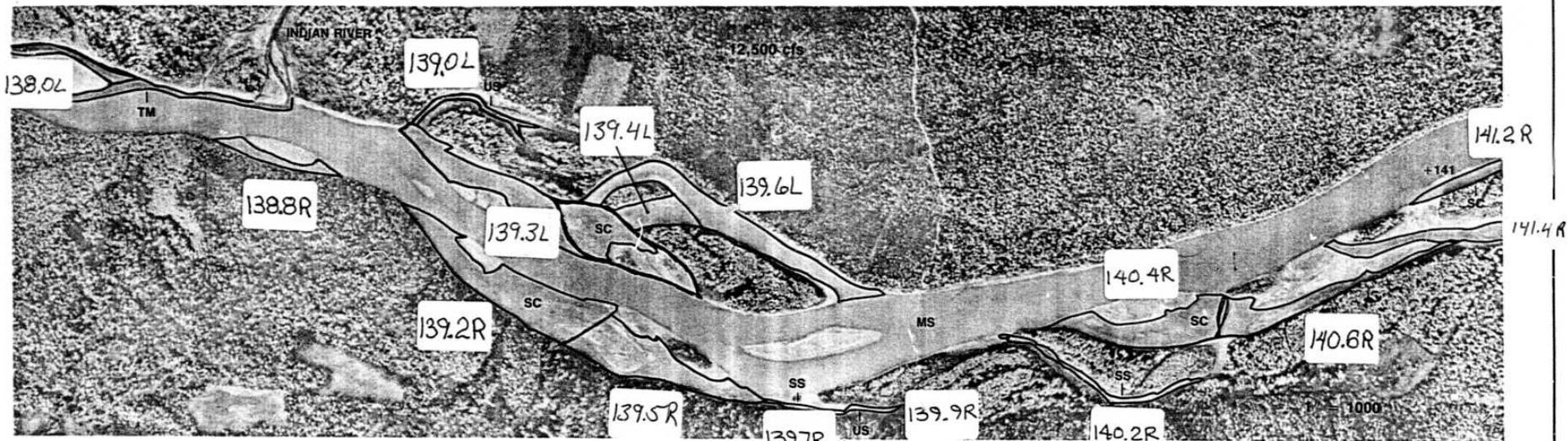
MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

PLATE 5 OF 18      RIVER MILE 136 TO 138

**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

<b>EWT&amp;A</b> <small>ENGINEERING, WRITING &amp; ARCHITECTURE</small>	<b>HARZA-EBASCO</b> <small>SUSITNA JOINT VENTURE</small>
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**LEGEND**

- |                  |                    |
|------------------|--------------------|
| MS MAINSTEM      | TM TRIBUTARY MOUTH |
| SC SIDE CHANNEL  | T TRIBUTARY        |
| SS SIDE SLOUGH   | + RIVER MILE       |
| US UPLAND SLOUGH |                    |

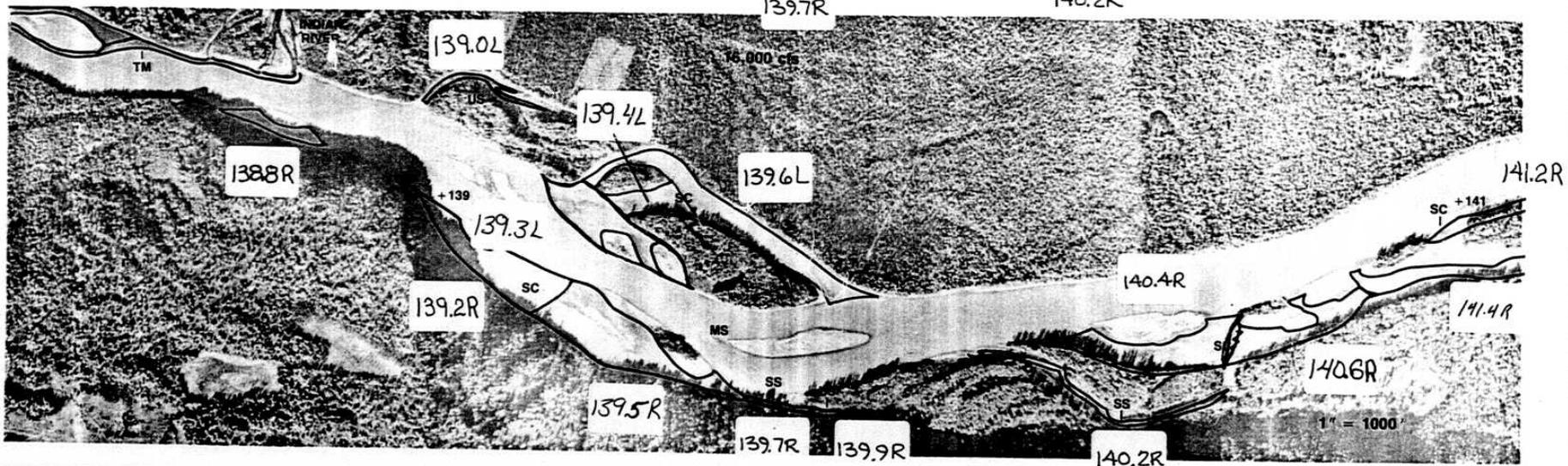
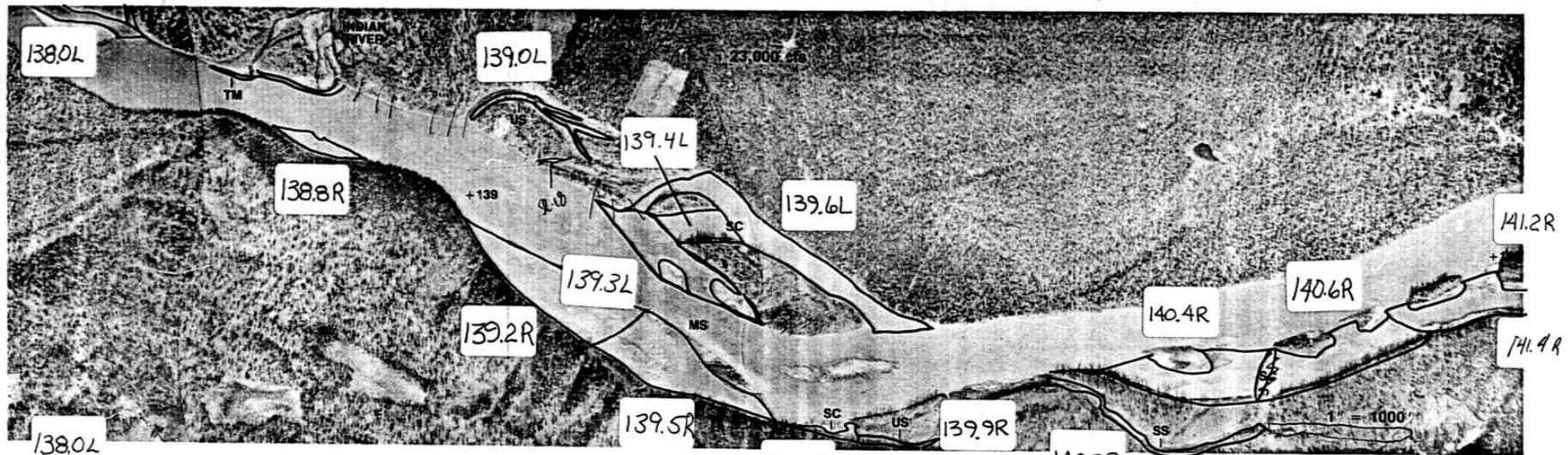
**MIDDLE SUSITNA RIVER**

PLATE 4 OF 18 RIVER MILE 139 TO 141

**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**  
WOODS BARTON & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

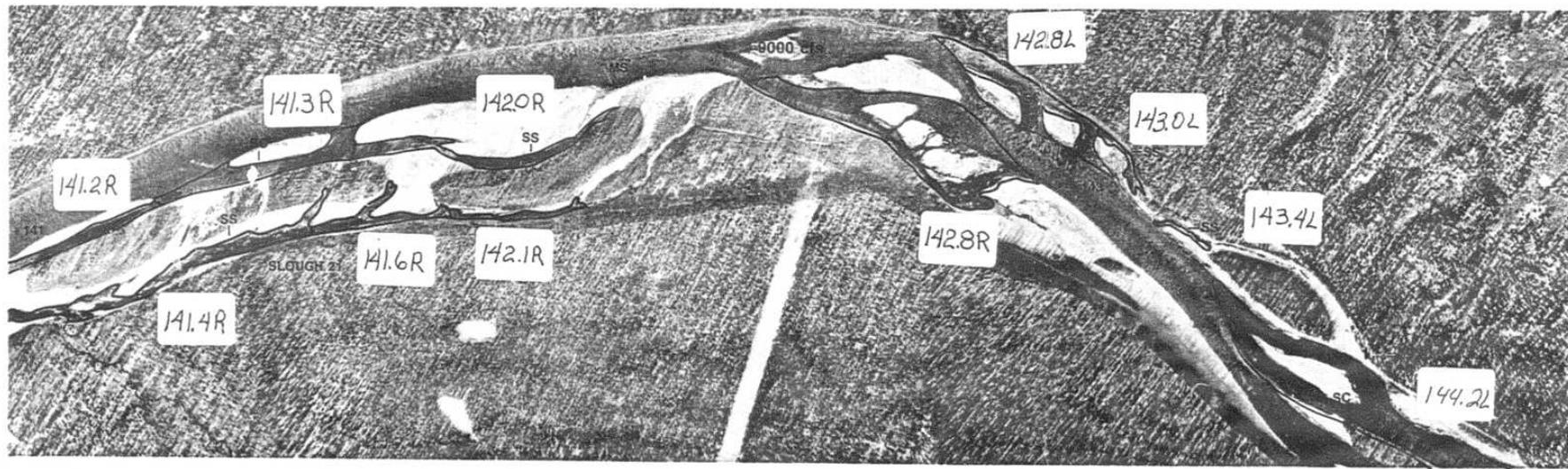
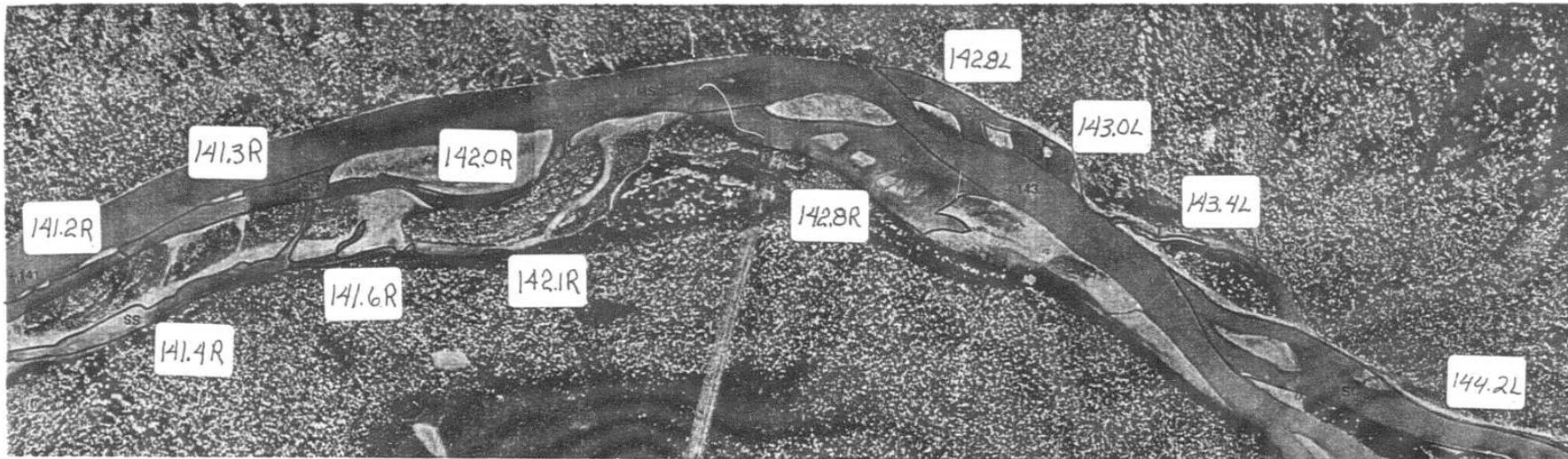
PLATE 4 OF 18

RIVER MILE 139 TO 141

**ALASKA POWER AUTHORITY**  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**  
WILSON ENGINEERING & ARCHITECTS

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

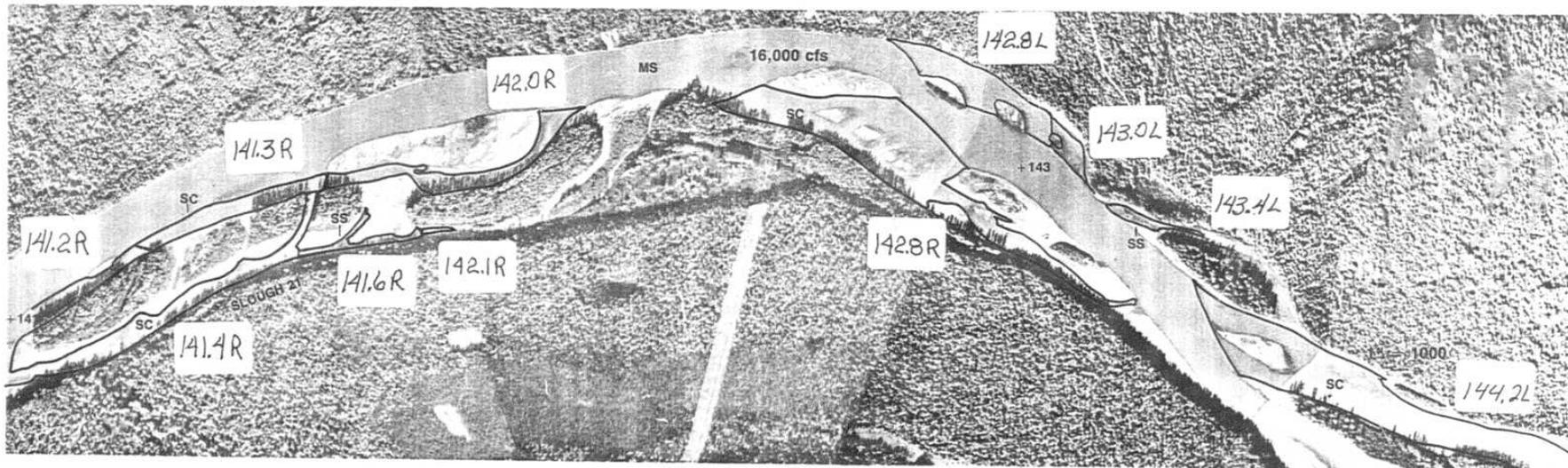
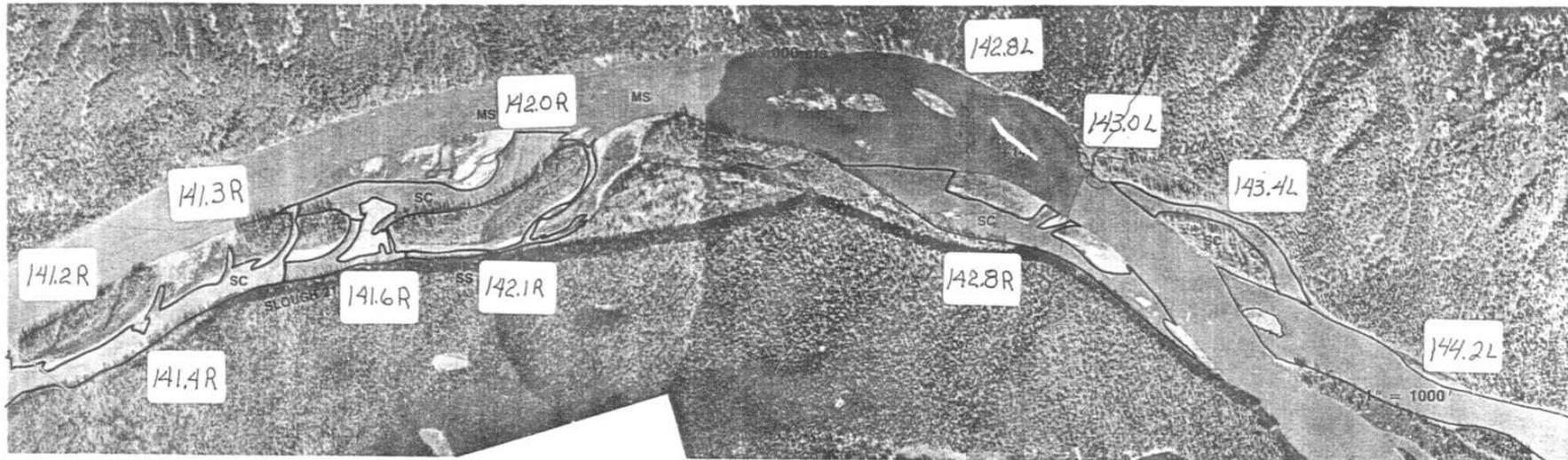
**MIDDLE SUSITNA RIVER**

PLATE 3 OF 18 RIVER MILE 142 TO 144

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**  
ENGINEERING, WATER, TRIBUTARY & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

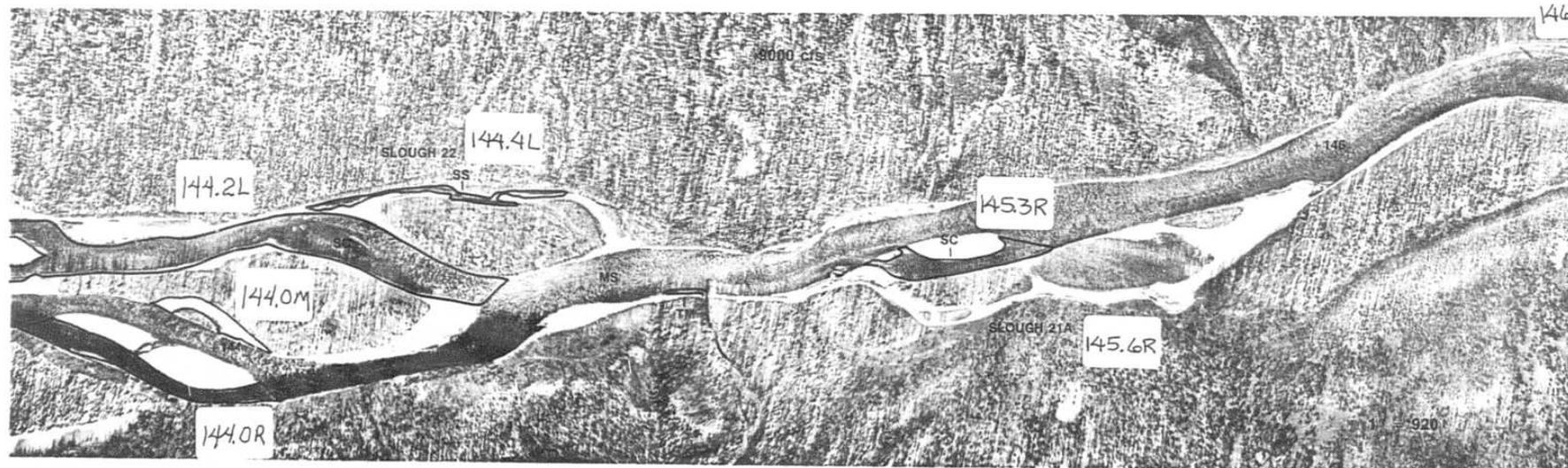
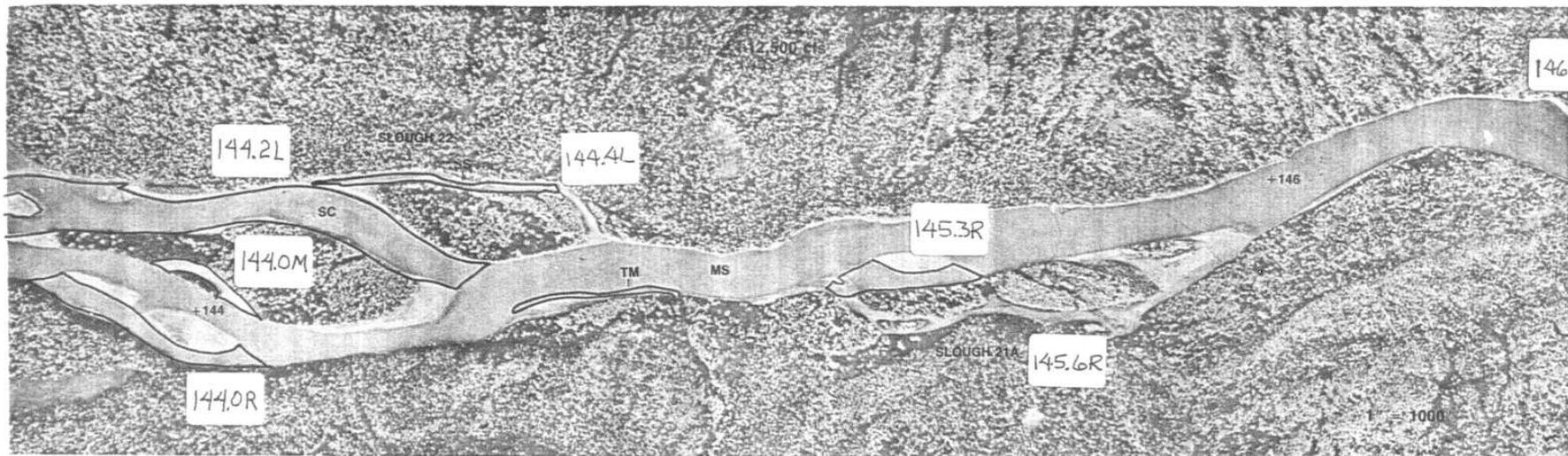
**MIDDLE SUSITNA RIVER**

PLATE 3 OF 18 RIVER MILE 142 TO 144

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**  
ENGINEERING, TESTING & ARCHITECTURE

**HARZA-EDASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

**MIDDLE SUSITNA RIVER**

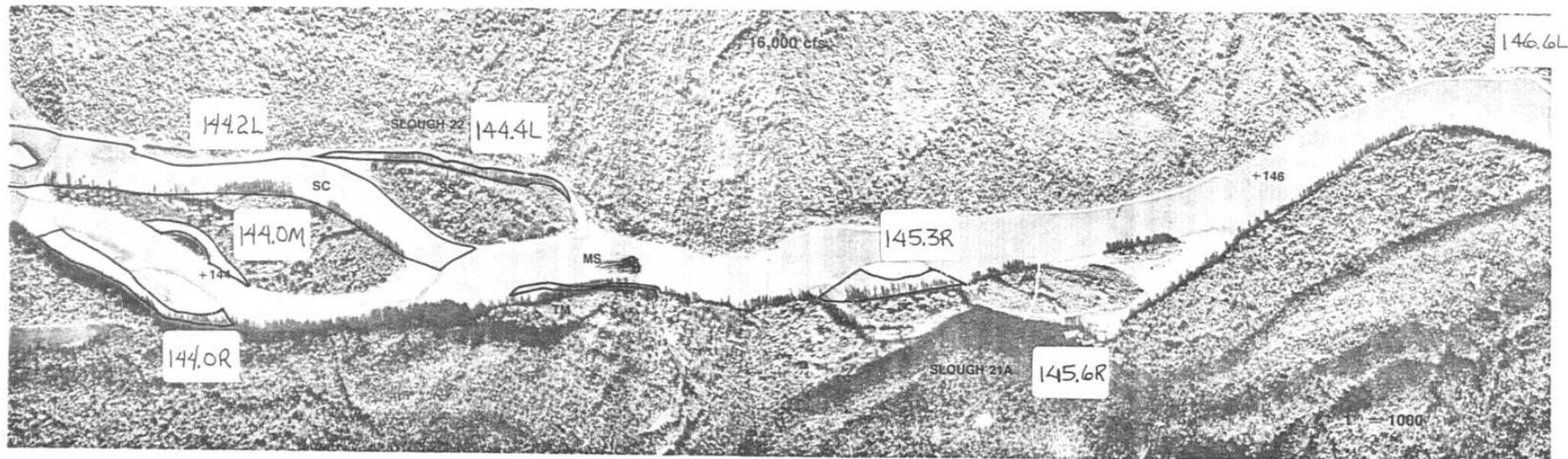
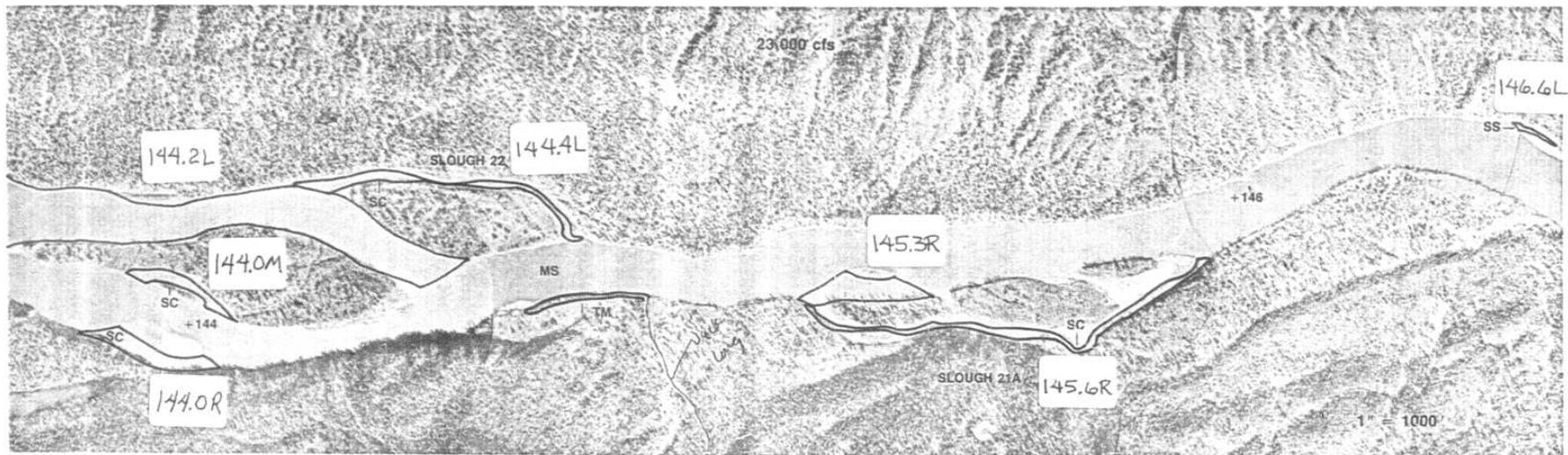
PLATE 2 OF 18

RIVER MILE 144 TO 146

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**  
WOODRUFF TRIMBY & ASSOCIATES

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

PLATE 2 OF 18

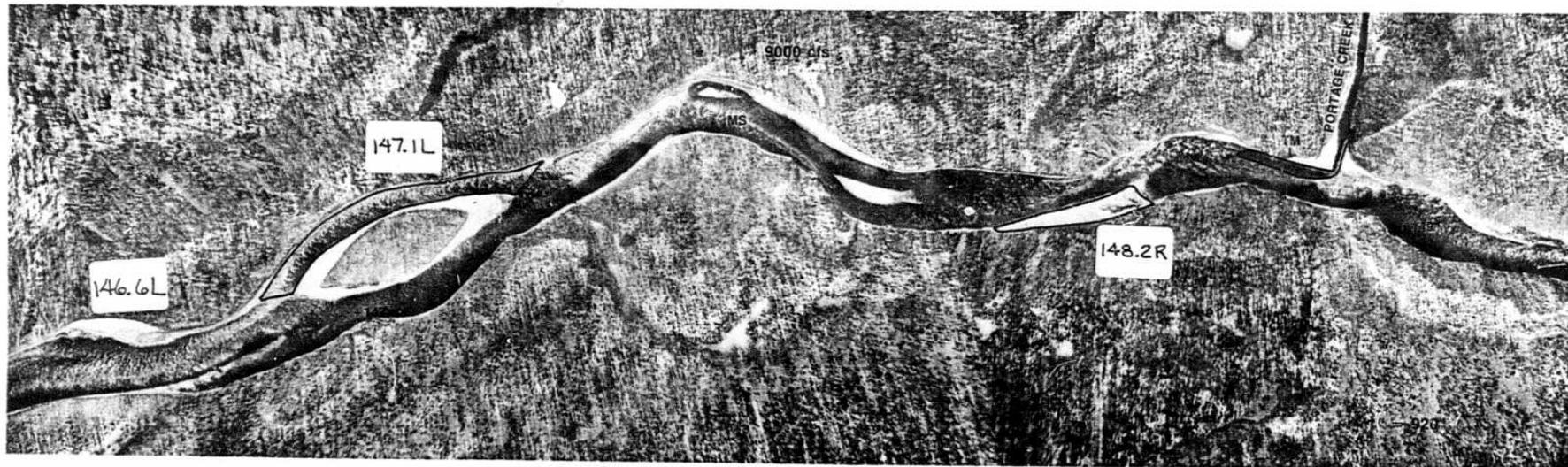
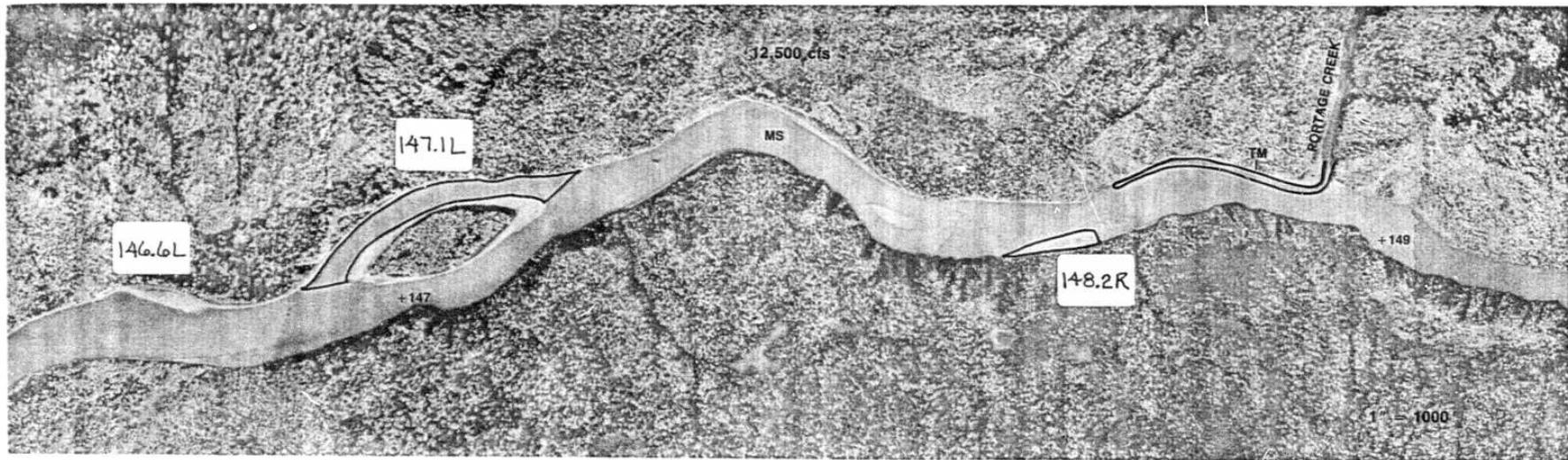
RIVER MILE 144 TO 146

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**

**HARZA-EBASCO**

SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

PLATE 1 OF 18

RIVER MILE 147 TO 149

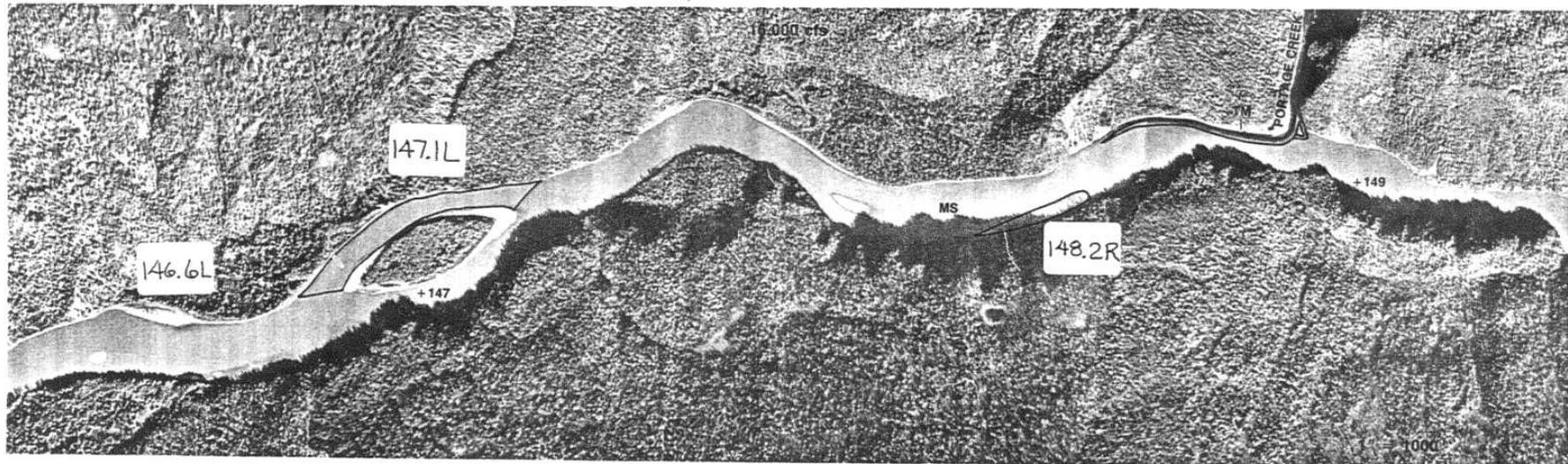
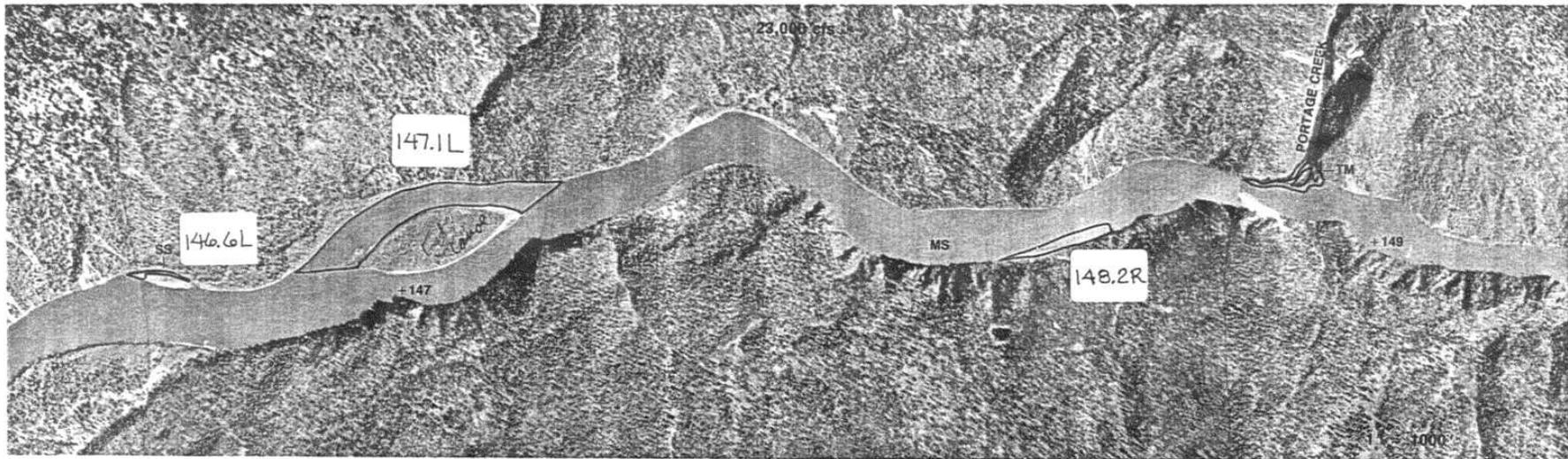
ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**

**HARZA-EBASCO**

WOODS BATHY & ASSOCIATES

SUSITNA JOINT VENTURE



**LEGEND**

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

**MIDDLE SUSITNA RIVER**

PLATE 1 OF 18

RIVER MILE 147 TO 149

ALASKA POWER AUTHORITY  
SUSITNA HYDROELECTRIC PROJECT

**EWT&A**

**HARZA-EBASCO**

• WOODY FRIMBY & ASSOCIATES

SUSITNA JOINT VENTURE