



Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Undetermined



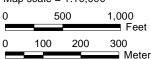
Field Verified 2013

Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
imagery (incorporating Tetra Tech's
beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-22



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



// Not Intact

Field Verified 2013

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Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-23



Map scale = 1:10,000 100 200 300





Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact

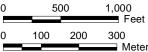
Field Verified 2013

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Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-24



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

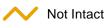
Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Undetermined



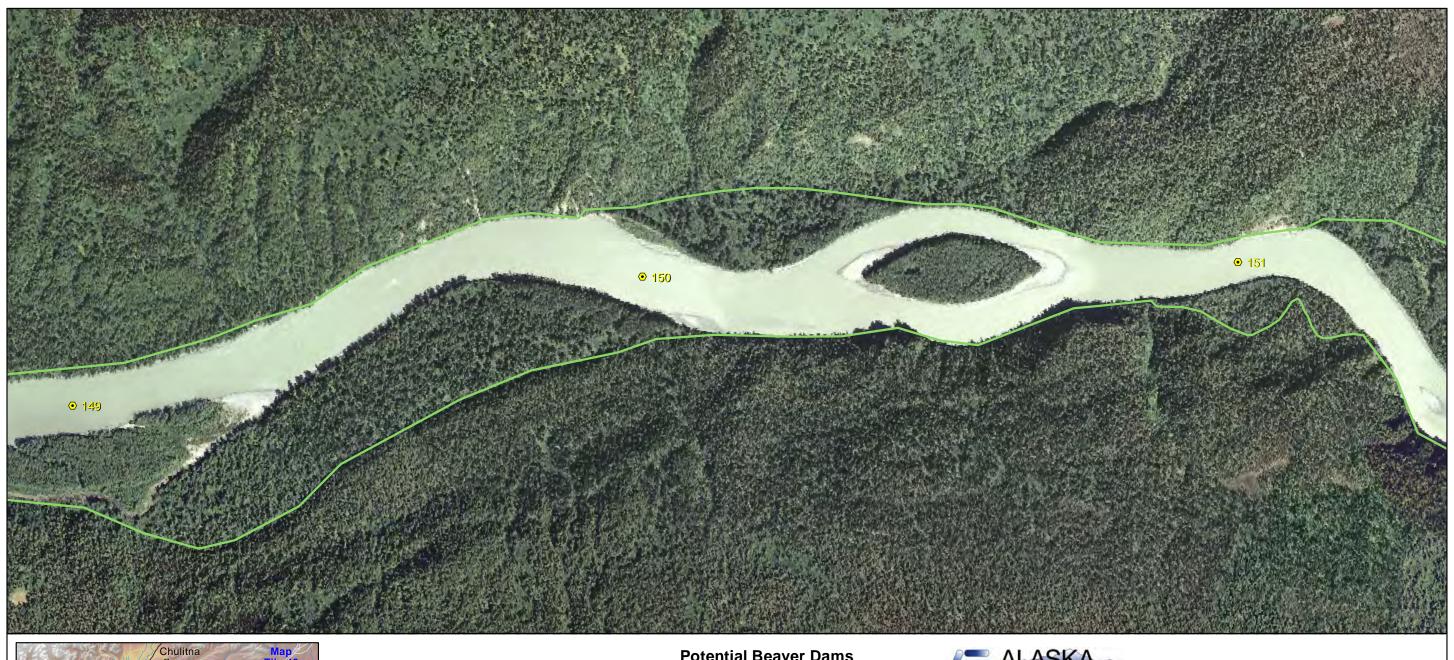
Field Verified 2013

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Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-25



Map scale = 1:10,000 100 200 300





Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





✓ Partial



Undetermined



// Not Intact

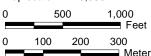
Field Verified 2013

Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
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Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-26



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





✓ Partial



Undetermined



// Not Intact

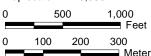
Field Verified 2013

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Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

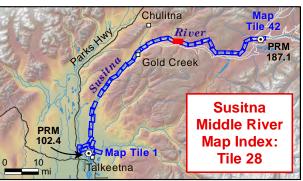
Figure A-27



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact

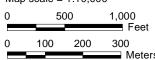
Field Verified 2013

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Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-28



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact

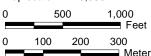
Field Verified 2013

Data Sources:
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Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-29



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact

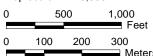
Field Verified 2013

Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
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Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

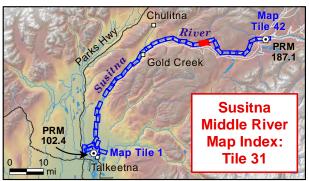
Figure A-30



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





✓ Partial



Undetermined



// Not Intact

Field Verified 2013

Data Sources:
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Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-31



Map scale = 1:10,000 100 200 300





Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





✓ Partial



Undetermined



// Not Intact



Field Verified 2013

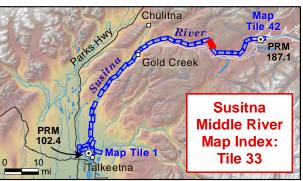
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Beaver Dams: RIPR_Cumul_Beaver
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Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-32



Map scale = 1:10,000 100 200 300





Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact



Field Verified 2013

Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
_Dams_v03 is ABR's comprehensive
review of all previously identified
potential beaver dams visible in
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beaver dam locations in focus areas).
Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-33



Map scale = 1:10,000

100 200 300





Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact

Field Verified 2013

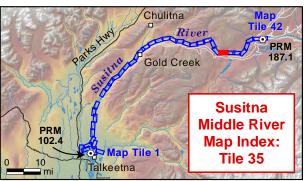
Data Sources:
Beaver Dams: RIPR_Cumul_Beaver
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Imagery: MatSu 2011 NatColor
Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-34



Map scale = 1:10,000 100 200 300





Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

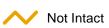
Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Undetermined





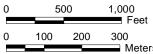
Field Verified 2013

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Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-35



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



// Not Intact

Field Verified 2013

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Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-36



Map scale = 1:10,000

100 200 300





Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



// Not Intact



Field Verified 2013

Data Sources:
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Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-37



Map scale = 1:10,000 100 200 300





Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact

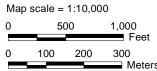


Field Verified 2013

Data Sources:
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Figure A-38









Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



// Not Intact

Field Verified 2013

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Proposed Project: MWH 20140818
Base layers: AEA's Watana.gdb and
SuWa_Consultant_SDE_GINA.sde

Figure A-39



Map scale = 1:10,000 100 200 300





Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





✓ Partial



Undetermined



// Not Intact



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SuWa_Consultant_SDE_GINA.sde

Figure A-40



Map scale = 1:10,000

Projection: AK State Plane Zone 4 NAD 1983 Date Saved: 10/18/2015 Map Author: ABR, Inc. - Allison Zusi-Cobb File: SuWa_MidR_BeaverDams_SIR_v01.mxd

100 200 300





Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery







Undetermined



// Not Intact

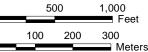
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Figure A-41



Map scale = 1:10,000







Project River Mile

Instream Flow Focus Area (Upper and Lower Extent)

Riverine Physiography Area

Proposed Project Area

Potential Beaver Dams Structure Status from Imagery





Partial



Undetermined



// Not Intact



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Figure A-42



Map scale = 1:10,000

