Alaska Resources Library & Information Services

Susitna-Watana Hydroelectric Project Document
ARLIS Uniform Cover Page

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Author(s) – Corporate: Prepared by URS Corporation-Alaska	
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ARLIS
Alaska Resources Library & Information Services

SUSITNA-WATANA HYDRO

Susitna-Watana Hydroelectric Project
(FERC No. 14241)

Map Book of Trails

of the Recreation Use Study Area

Prepared for
Alaska Energy Authority

SUSITNA-WATANA HYDRO

Clean, reliable energy for the next 100 years.

Prepared by
URS Corporation - Alaska

PRELIMINARY DRAFT: DECEMBER 2012

INTRODUCTION

The Map Book of Trails of the Recreation Use Study Area (herein, Trails Map Book) displays GIS data on all known trails located within the Recreation Use Study Area. Data were compiled from all known and available data sources, including the trail dataset provided in the Project geodatabase, Bureau of Land Management, Matanuska-Susitna Borough, Alaska DNR, and CIRI. Additional trails were located on digital imagery and digitized by URS. This Map Book is presented in Preliminary Draft format; edits to content will be made as needed during the 2013/2014 Study.

DESIGN OF THE MAP BOOK

The Map Book is presented as a series 65 detailed map plates and 5 regional plates created using ESRI ArcGIS v 10.0. The location of each plate is shown in the Trail Map Book Index located on the following page. The detailed series covers the Recreation Effects Analysis Study Area plus high use trails along the Parks and Denali Highways at 1:63,360. These are overlain on USGS quad maps with hill shade applied for additional context. The regional series covers the Recreation Facilities Study Area at various scales that best fit the study area.

REVISION STATUS

Several data sources used to create the Map Book were not available in GIS format, and were consequently digitized from PDF maps or non-digital sources. All data were evaluated using background imagery when available. Where duplicate data existed, the higher quality option was retained and lower quality feature was removed. All Map Book content is under development, and will be field-verified in 2013. Should you have insight to trails contained in this Map Book, or information on trails not yet included, please contact **Tim Kramer at (907)261–6741 or email at tim.kramer@urs.com**.

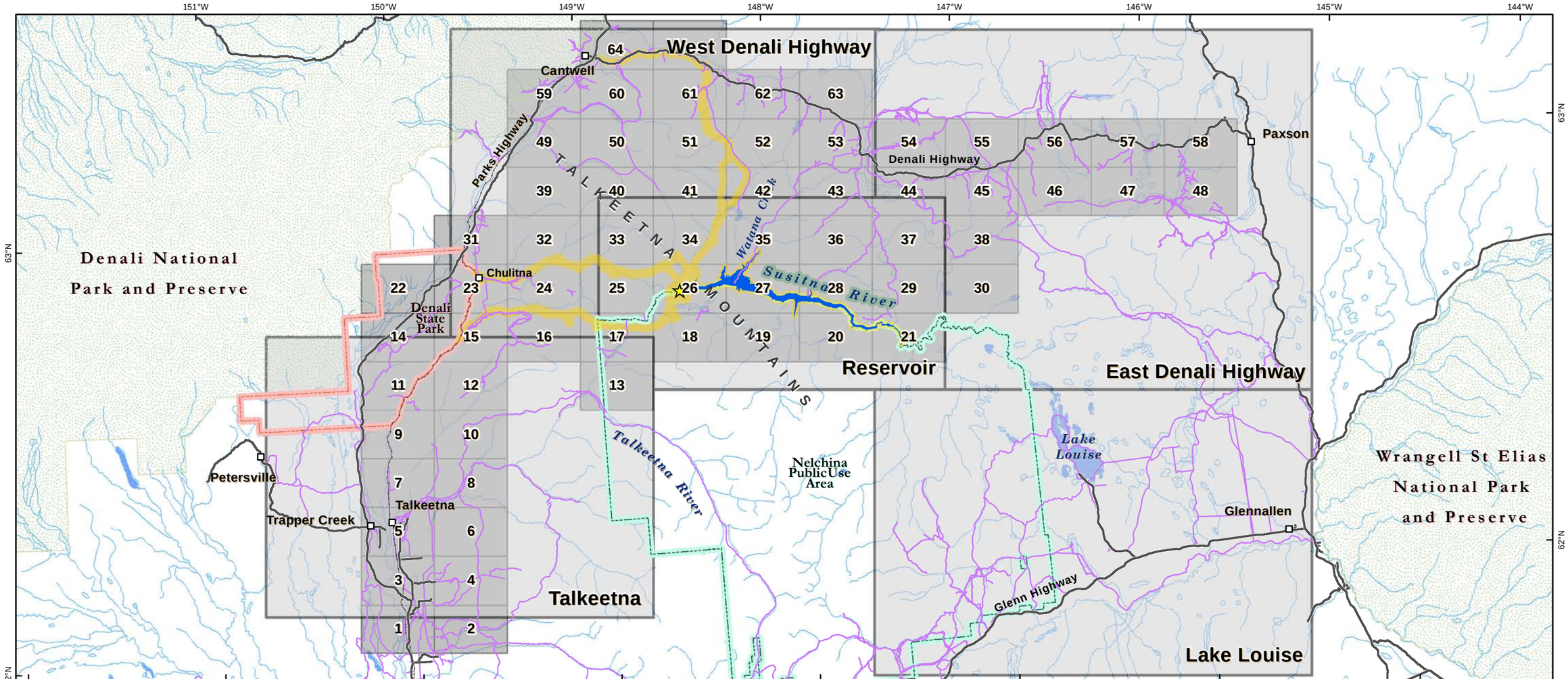
USGS BASE MAPS

The USGS quad maps used as a base for the 1:63,360 map series are Web Map Service from Geographic Information Network of Alaska (GINA). The URL is http://wms.alaskamapped.org/extras?

The USGS topographic map symbols are standard across USGS mapping products. The detailed map symbol key is published by the USGS in a 4 page PDF file available at the following URL:

http://egsc.usgs.gov/isb/pubs/booklets/symbols/topomapsymbols.pdf

The base map for the regional map series is the National Geographic base map available as an ArcGIS Online map service at the following URL: http://goto.arcgisonline.com/maps/NatGeo_World_Map



Trail Map Book Index

ALASKA ENERGY AUTHORITY

Legend

- Proposed Watana Dam Site
- Proposed Watana Reservoir
- Preliminary Project Area
- Denali State Park
- Nelchine Public Use Area
- National Park and Preserve
- Trail
- Rivers/Streams
- Major Road
- Railroad

Additional trail data and revisions should be sent to tim.kramer@urs.com

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Anchorage
File: REC_Trails_FieldMapSet_Index_v2.mxd
Data Sources: See Map References

N

0 25 50 mi

0 25 50 75 km

Map N/A

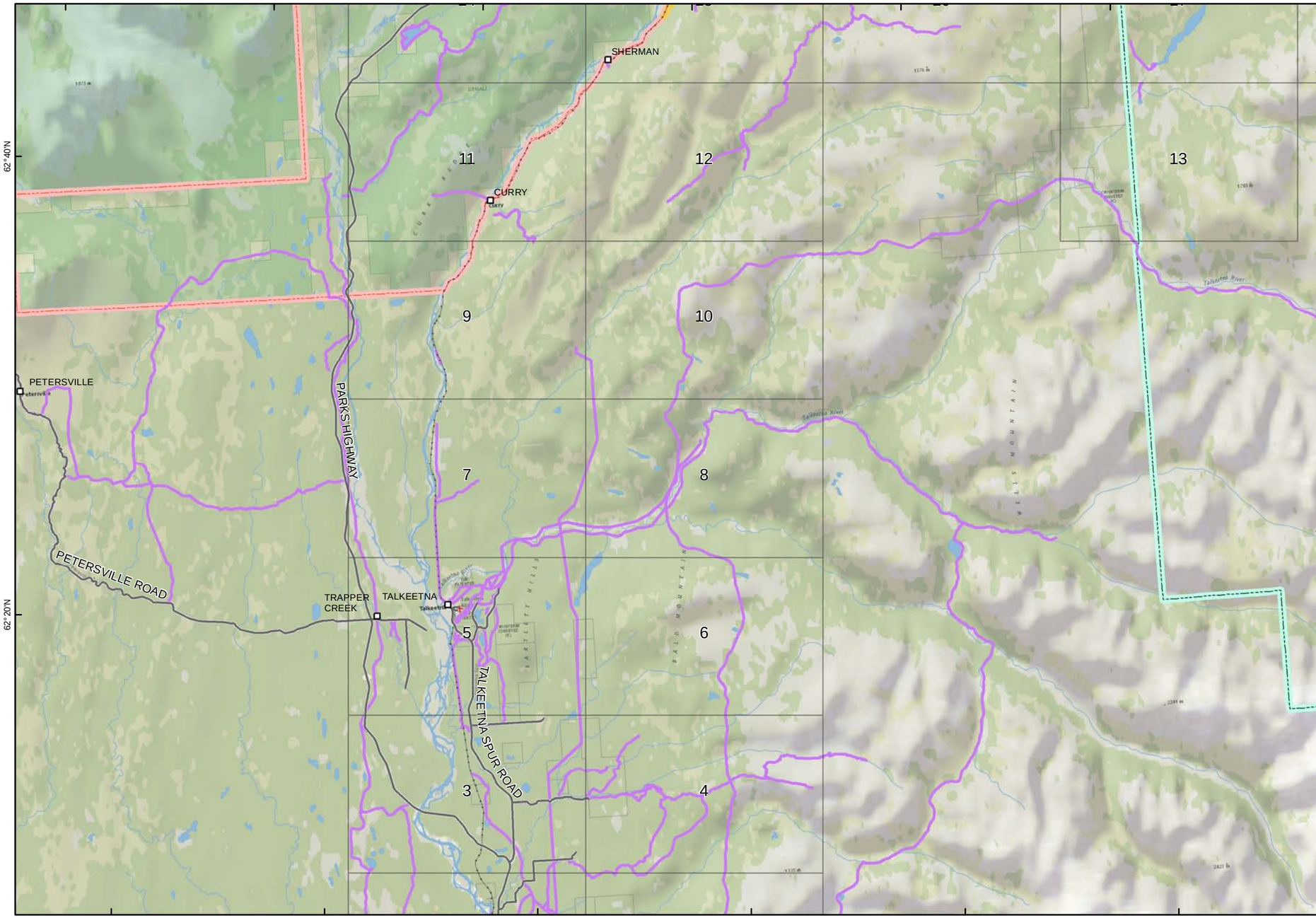
Map West Denali Highway N

Map West Denali Highway NE

150°40'W 150°20'W 150°W 149°40'W 149°20'W 149°W 148°40'W

62°40'N

62°20'N



Map N/A

150°40'W 150°20'W 150°W 149°40'W 149°20'W 149°W

Map N/A

Map N/A

Map N/A

ALASKA ENERGY AUTHORITY

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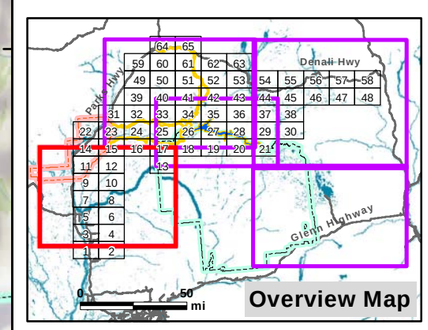
Talkeetna



0 5 10 mi

0 5 10 15 km

N

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Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Regional_v2.mxd
Data Sources: See Map References

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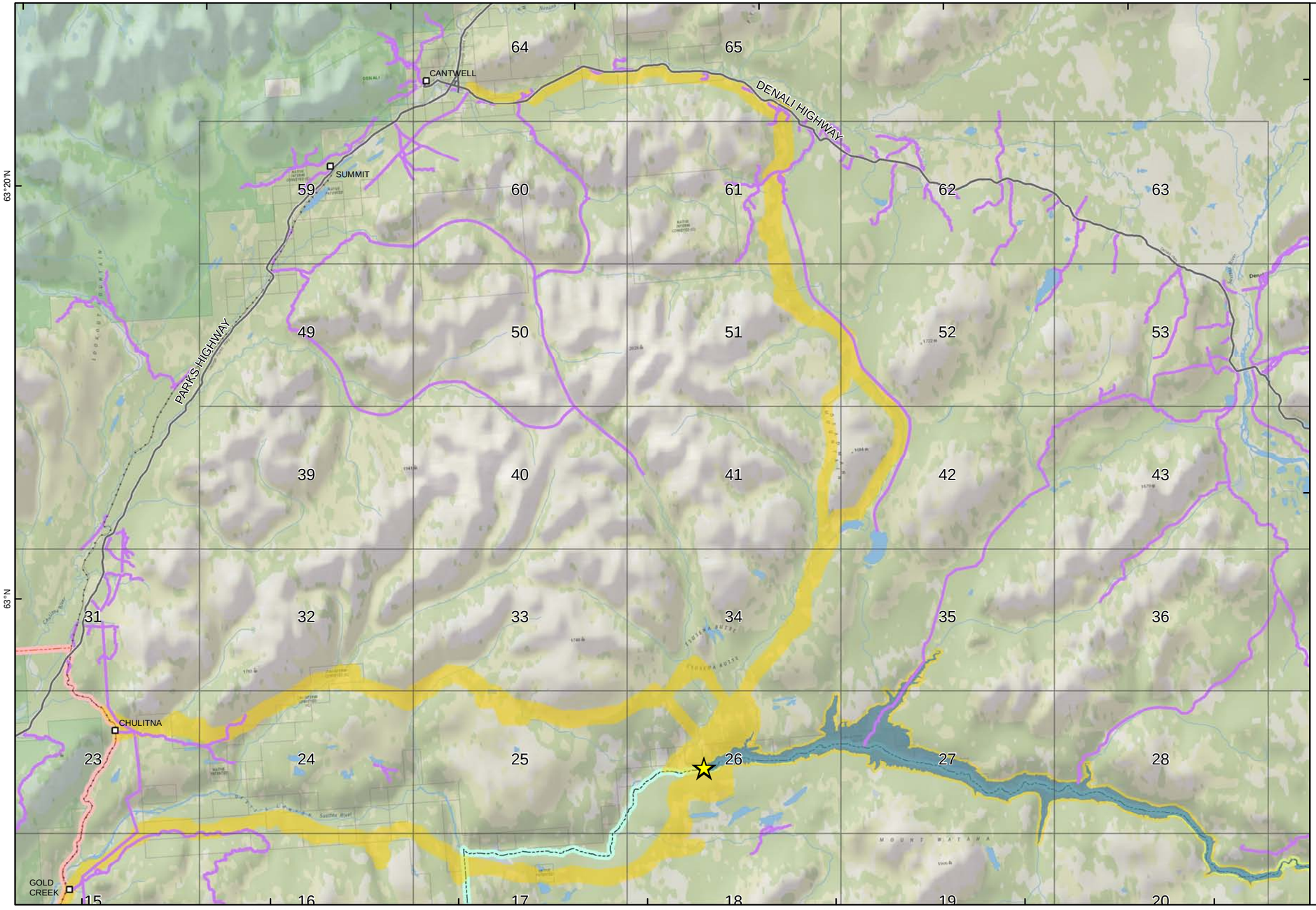
149°40'W 149°20'W 149°W 148°40'W 148°20'W 148°W 147°40'W

63°20'N

63°N

Map N/A



Map East Denali Highway E

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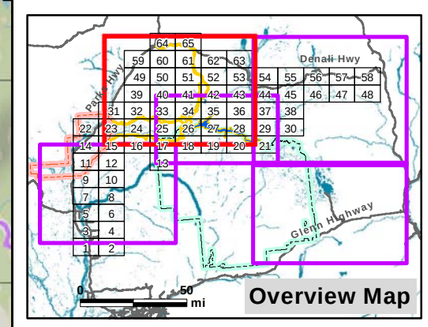
West Denali Highway



0 5 10 mi

0 5 10 15 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Regional_v2.mxd
Data Sources: See Map References

149°40'W 149°20'W 149°W 148°40'W 148°20'W 148°W 147°40'W

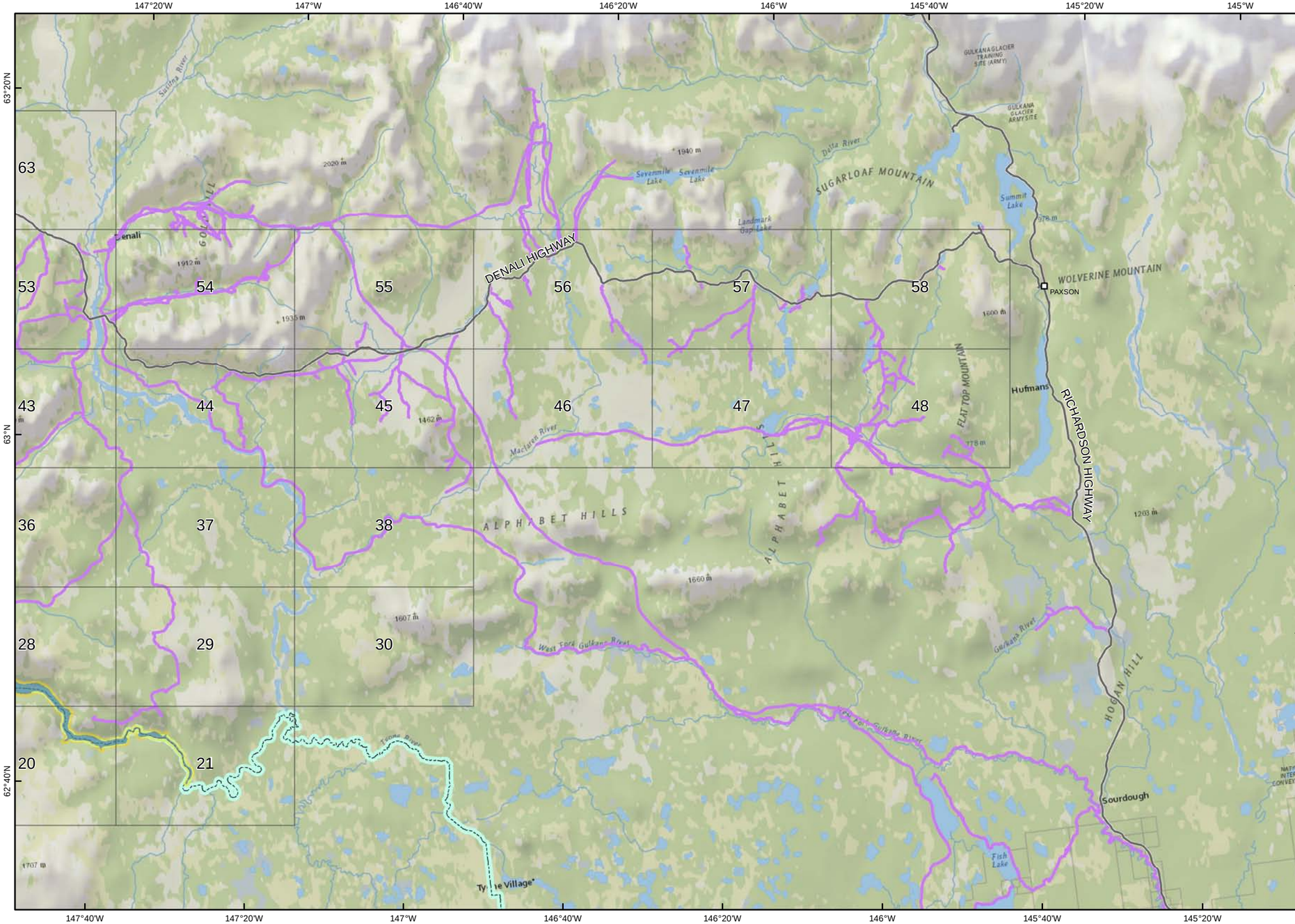
Map Talkeetna SW | **Map Reservoir S** | **Map East Denali Highway SE**

Map N/A

Map N/A

Map N/A

Map West Denali Highway W



147°40'W 147°20'W 147°W 146°40'W 146°20'W 146°W 145°40'W 145°20'W

Map N/A

Map Lake Louise S

Map N/A

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Map N/A

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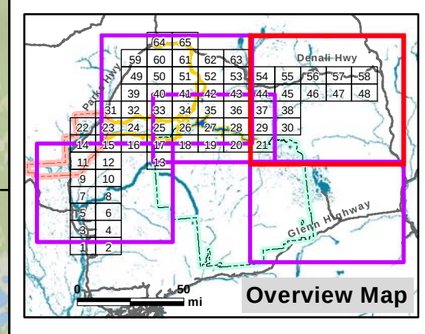
East Denali Highway



0 5 10 mi

0 5 10 15 km

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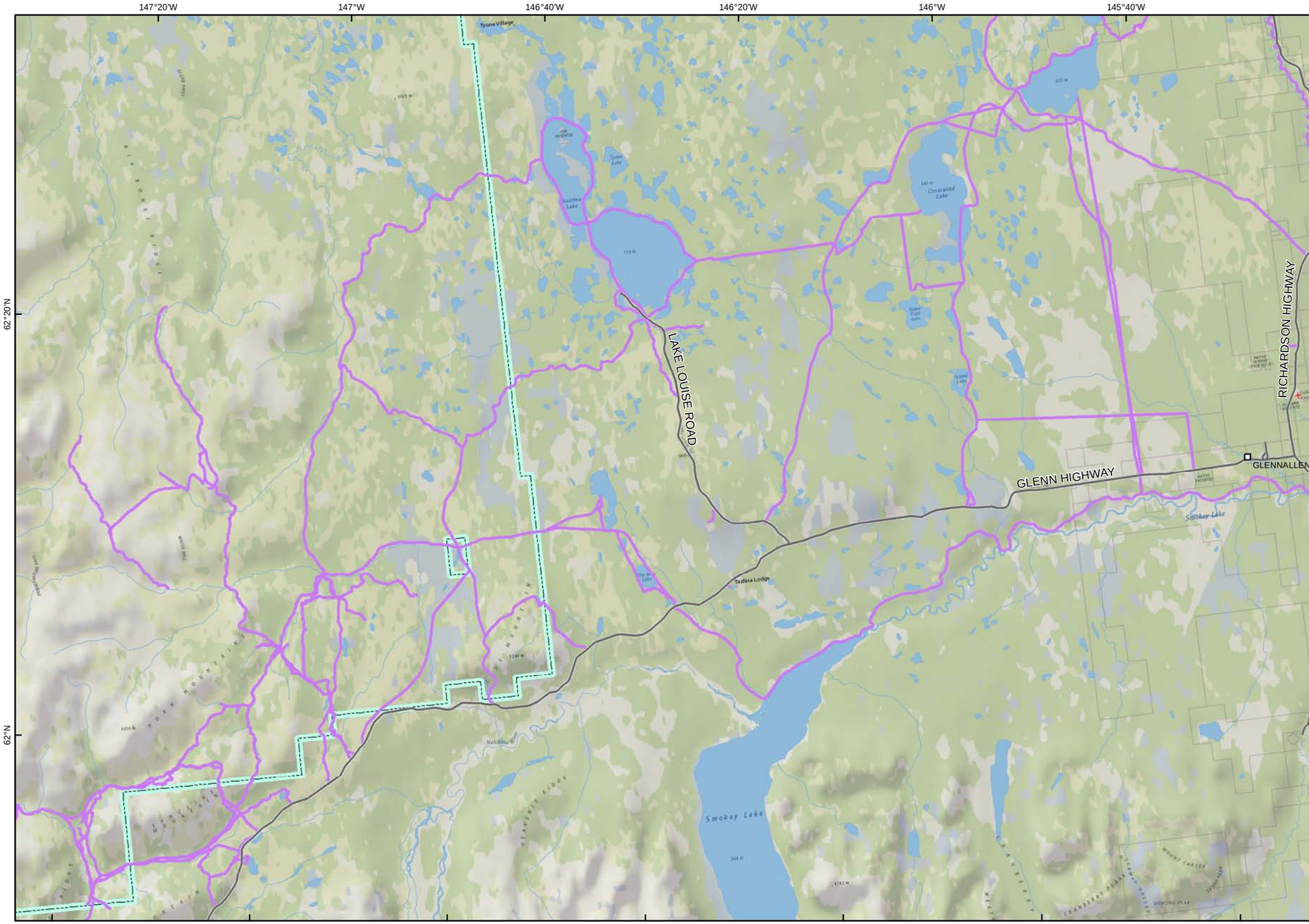
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Regional_v2.mxd
Data Sources: See Map References

Map Reservoir NW

Map East Denali Highway N

Map N/A



Map N/A

Map N/A

Map N/A

Map N/A

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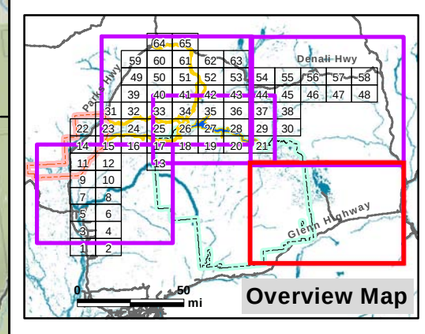
Lake Louise



0 5 10 mi

0 5 10 15 km

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Regional_v2.mxd
Data Sources: See Map References

Map West Denali Highway NW

Map West Denali Highway N

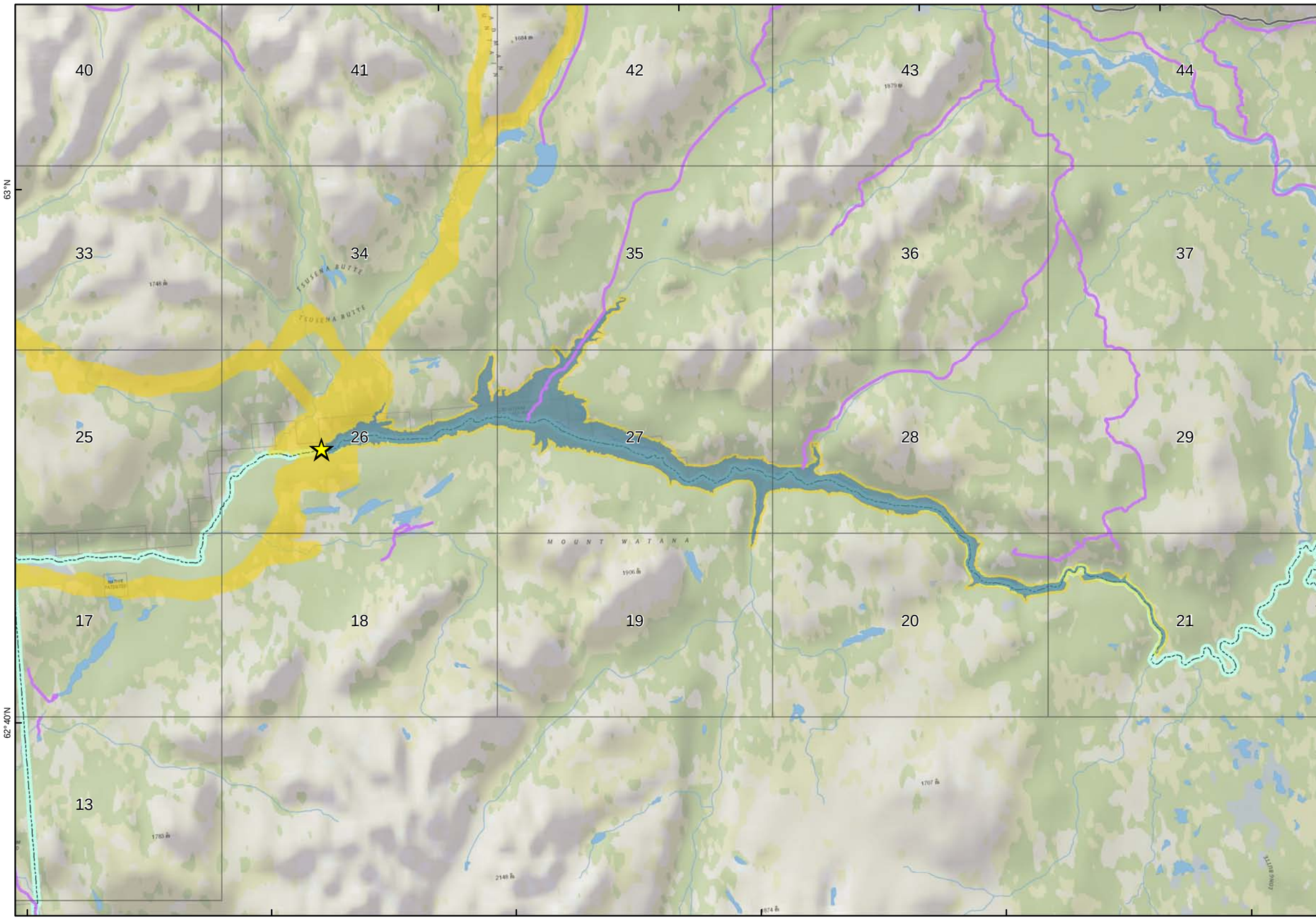
Map East Denali Highway NE

148°40'W 148°20'W 148°W 147°40'W 147°20'W

63°N

62°40'N

Map West Denali Highway W



149°W 148°40'W 148°20'W 148°W 147°40'W 147°20'W

Map Talkeetna SW

Map N/A

Map East Denali Highway SE

Map East Denali Highway E

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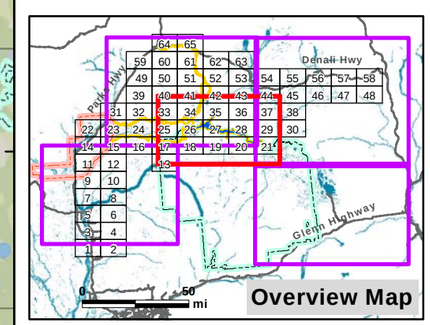
Reservoir



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0 5 10 15 km

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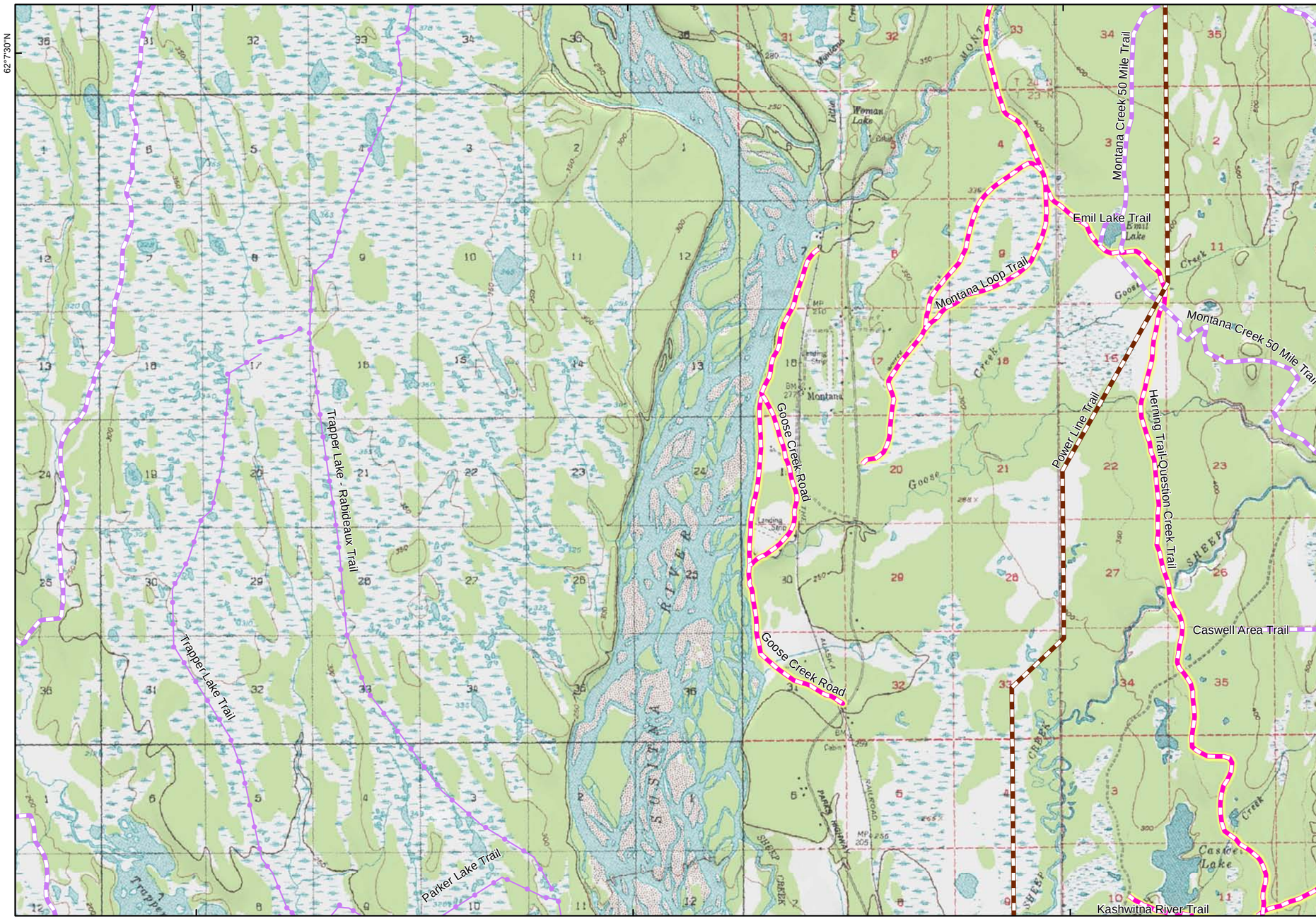
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Regional_v2.mxd
Data Sources: See Map References

Map N/A | Map 3 N | Map 4 NE

150°15'W | 150°7'30"W | 150°W

62°7'30"N

Map N/A



Map 2 E

150°15'W | 150°7'30"W | 150°W

Map N/A | Map N/A | Map N/A

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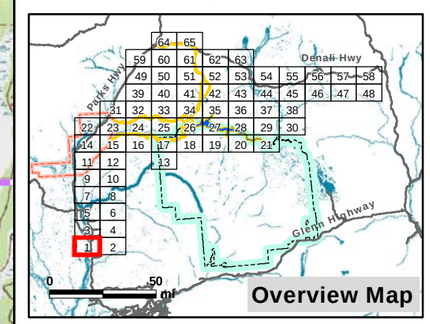
Map 1



0 1 2 mi

0 1 2 3 km

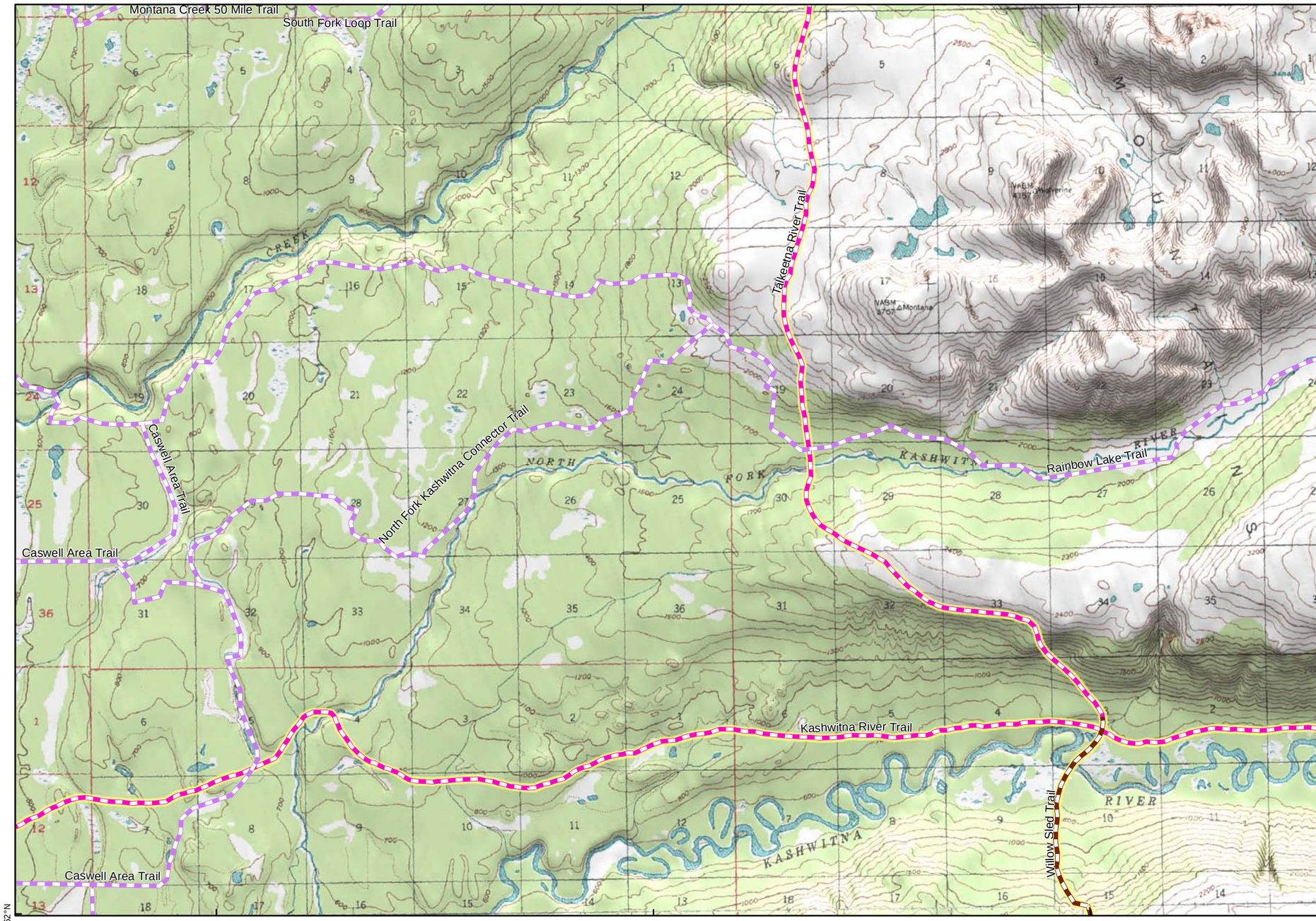
N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 3 NW | Map 4 N | Map N/A

149°52'30"W | 149°45'W | 149°37'30"W

Map 1 W



Map N/A

N°29

149°52'30"W | 149°45'W | 149°37'30"W

Map N/A | Map N/A | Map N/A

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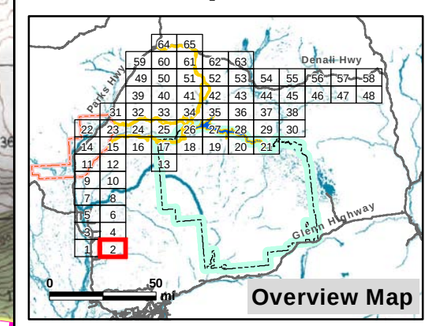
Map 2



0 1 2 mi

0 1 2 3 km

Projection: Alaska Albers NAD 1983
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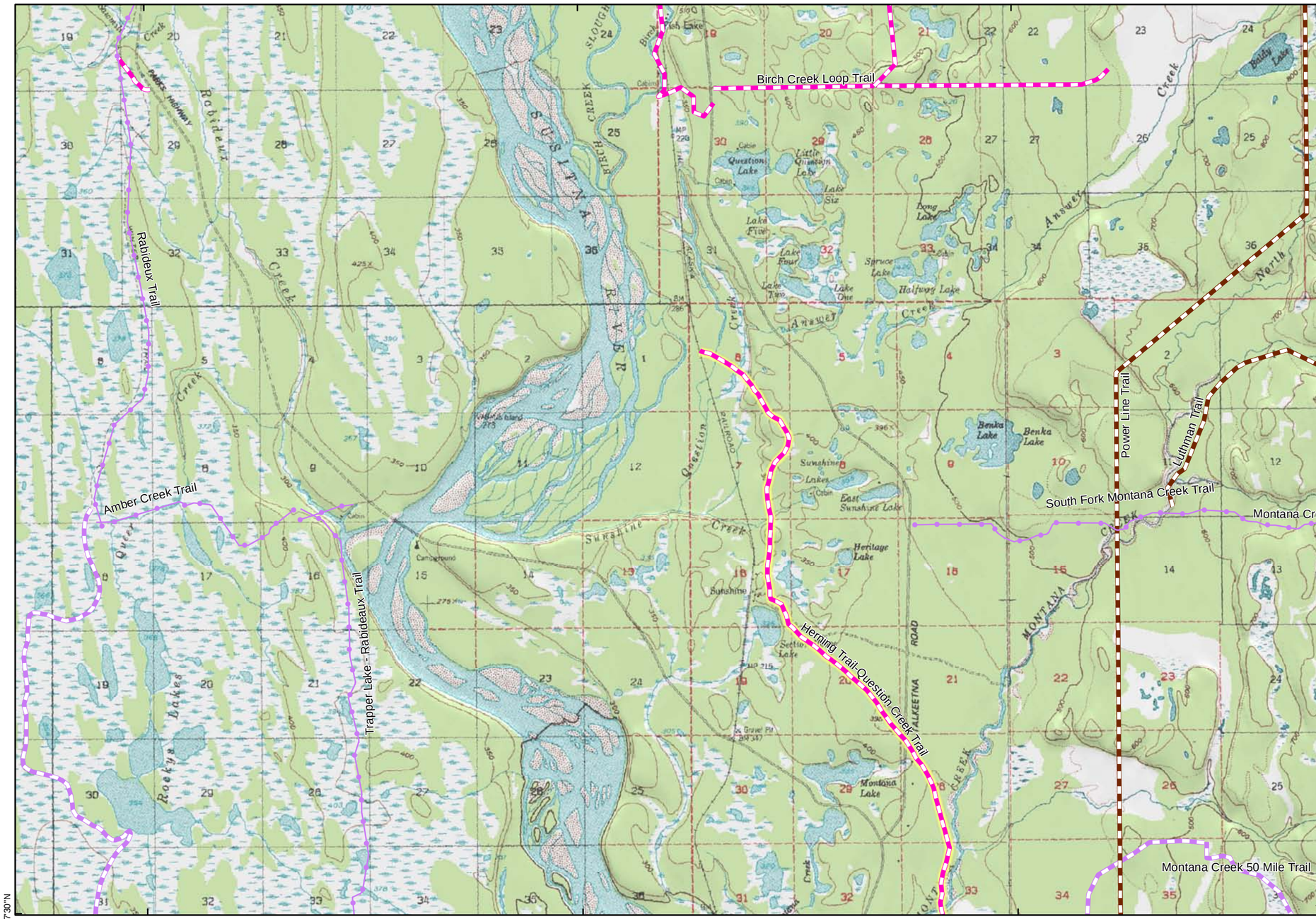
Data Sources: See Map References

Map N/A | Map 5 N | Map 6 NE

150°15'W | 150°7'30"W | 150°W



Map N/A

62°7'30"N

150°15'W | 150°7'30"W | 150°W

Map N/A | Map 1 S | Map 2 SE

Map 4 E

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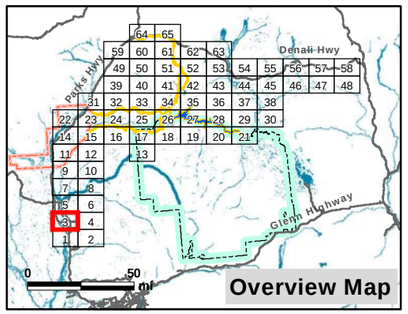
Map 3



0 1 2 mi

0 1 2 3 km

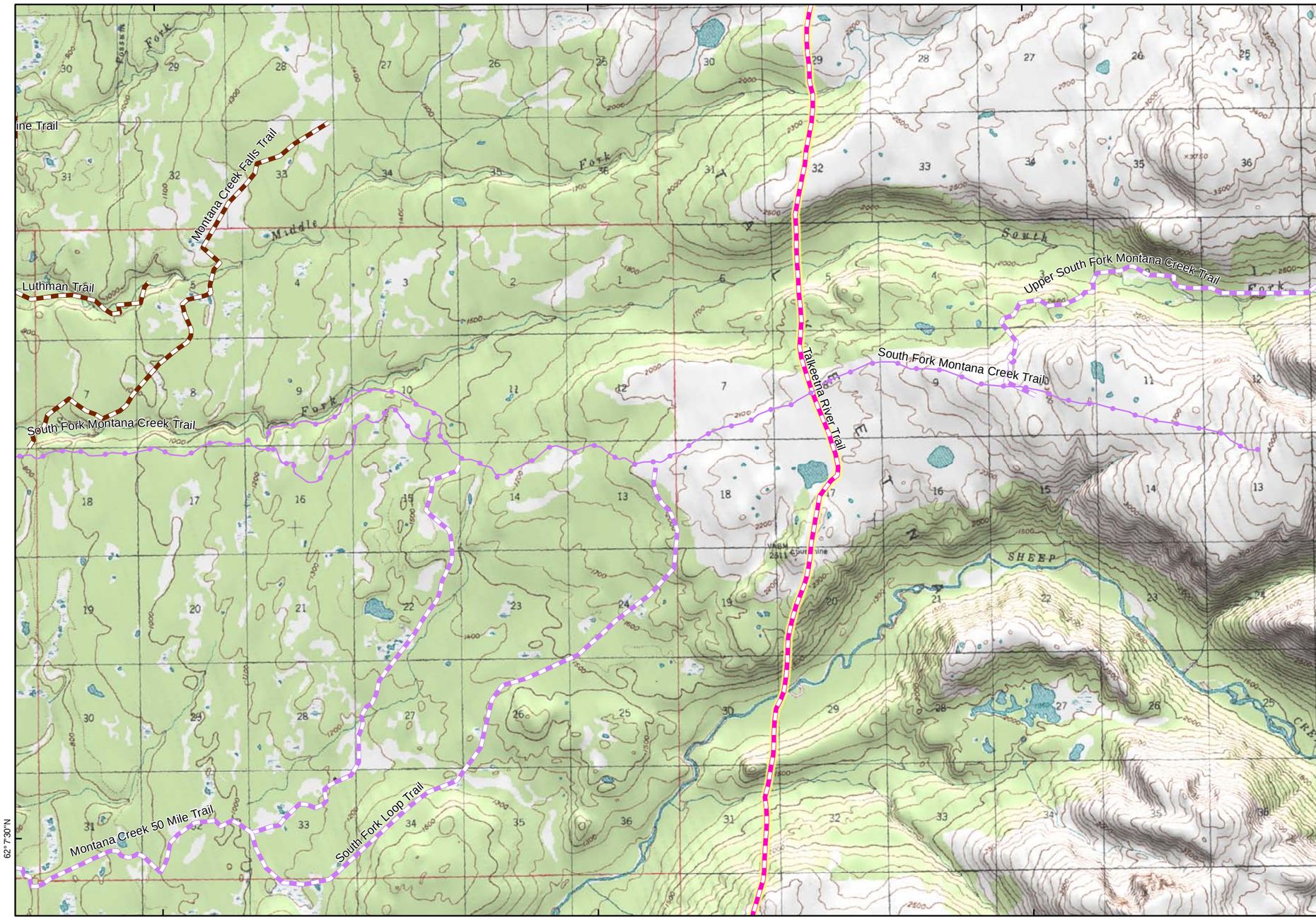
N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 5 NW | Map 6 N | Map N/A

149°52'30"W | 149°45'W | 149°37'30"W

Map 3 W



62°7'30"N

149°52'30"W | 149°45'W | 149°37'30"W

Map 1 SW | Map 2 S | Map N/A

Map N/A

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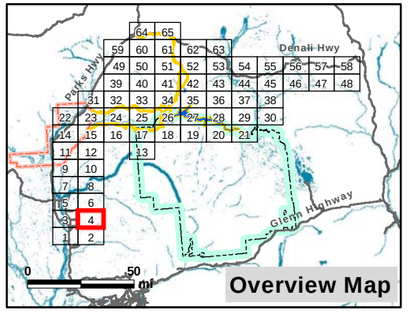
Map 4



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A | Map 7 N | Map 8 NE

150°15'W | 150°7'30"W | 150°W

62°15'N

150°15'W | 150°7'30"W | 150°W

Map N/A | Map 3 S | Map 4 SE

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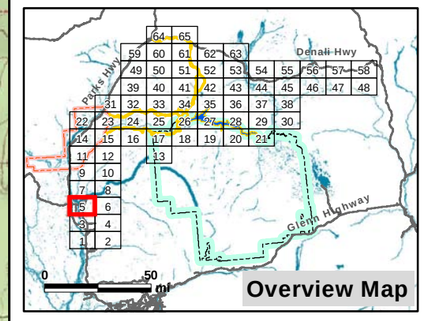
Map 5



0 1 2 mi

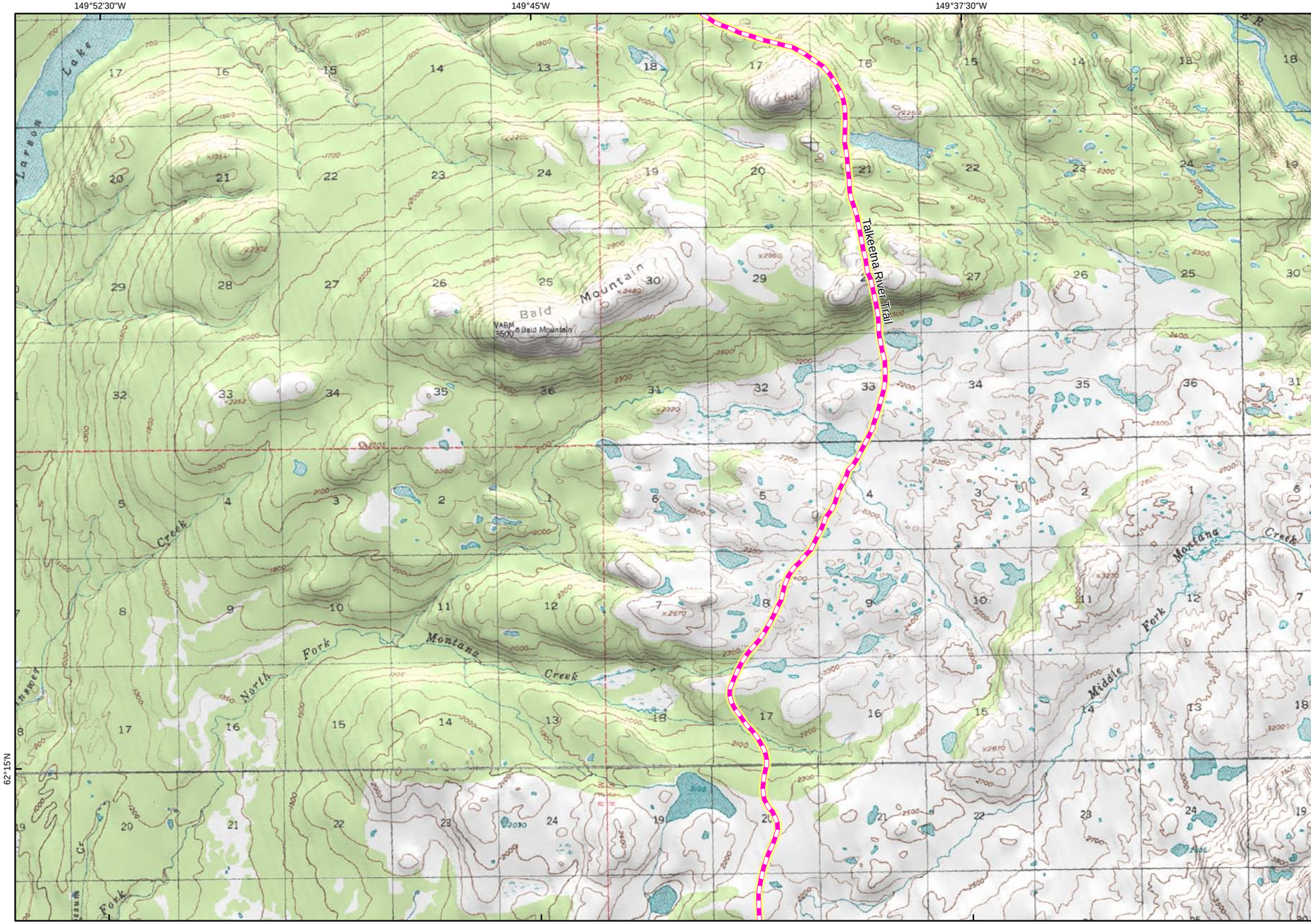
0 1 2 3 km

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 7 NW | Map 8 N | Map N/A

149°52'30"W | 149°45'W | 149°37'30"W

Map 5 W



62°15'N

149°52'30"W | 149°45'W | 149°37'30"W

Map 3 SW | Map 4 S | Map N/A

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Map N/A

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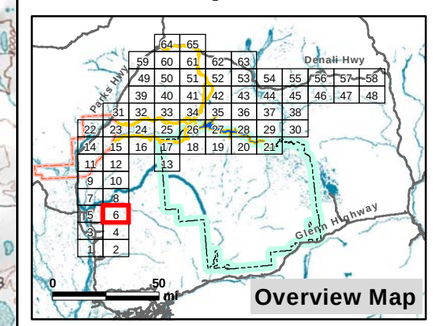
Map 6



0 1 2 mi

0 1 2 3 km

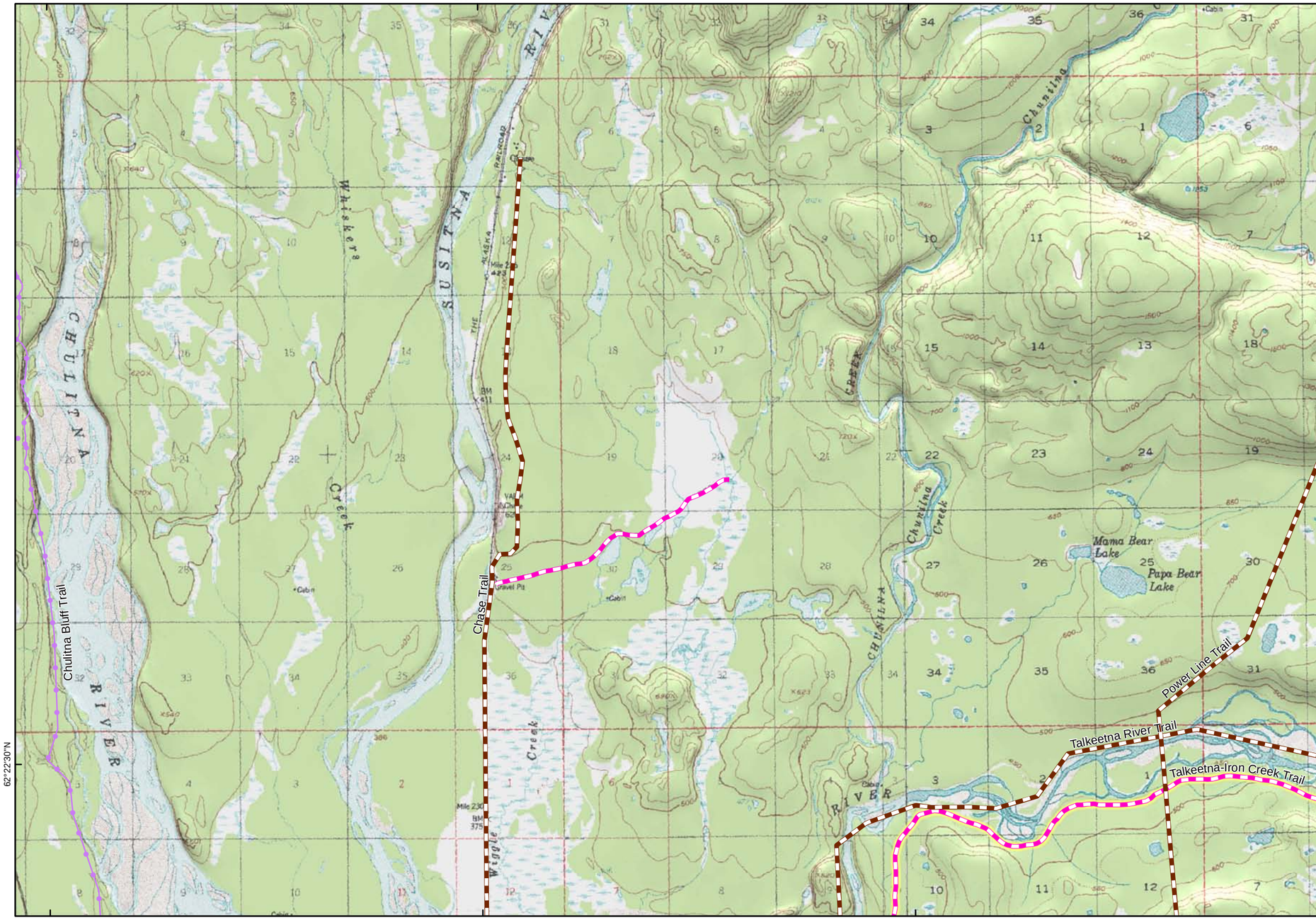
N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A | Map 9 N | Map 10 NE

150°15'W | 150°7'30"W | 150°W

Map N/A



62°22'30"N

Map 8 E

150°15'W | 150°7'30"W | 150°W

Map N/A | Map 5 S | Map 6 SE

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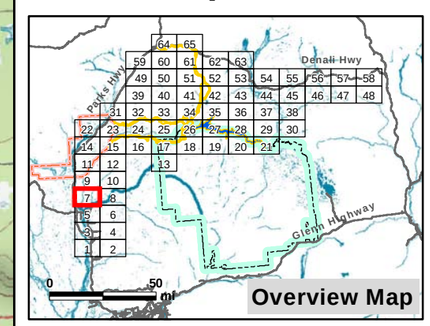
Map 7



0 1 2 mi

0 1 2 3 km

N

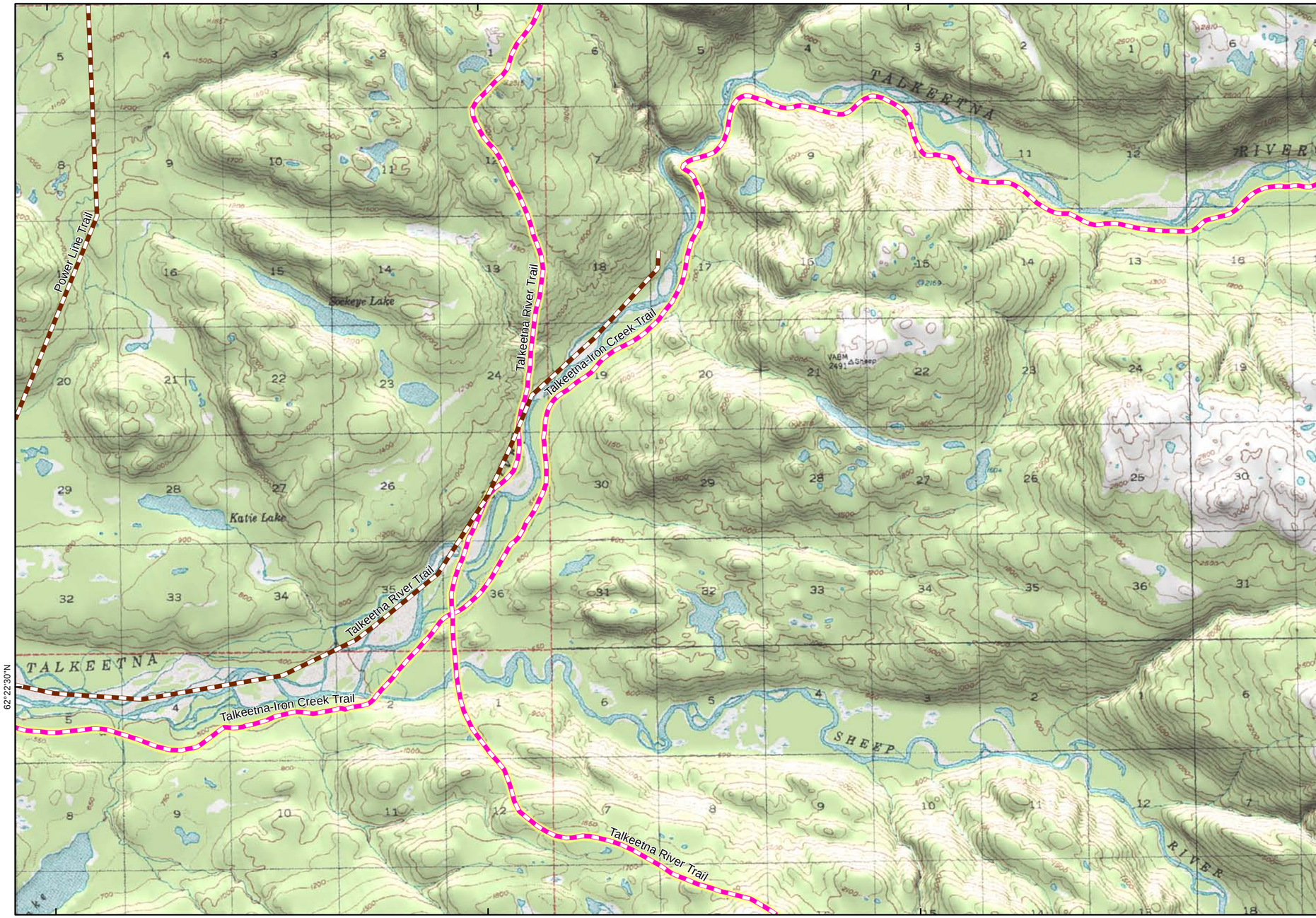
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 9 NW | Map 10 N | Map N/A

149°52'30"W | 149°45'W | 149°37'30"W

Map 7 W

62°22'30"N



149°52'30"W | 149°45'W | 149°37'30"W

Map 5 SW | Map 6 S | Map N/A

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

Trail Map Book

Legend

- Proposed Watana Dam Site
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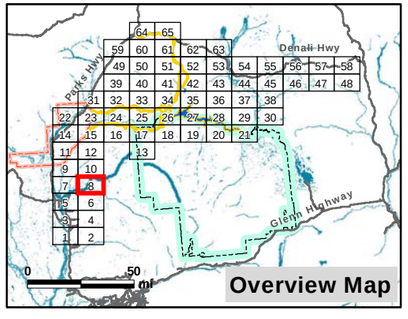
- Winter Trail
- Year Round Trail
- Groomed Snow Cat Trail
- Unconfirmed Trail & Route
- RS 2477 Trail
- CIRI 17b Trail Easments

Map N/A

Send additional trail data and revisions to tim.kramer@urs.com

Map 8



0 1 2 mi

0 1 2 3 km

N

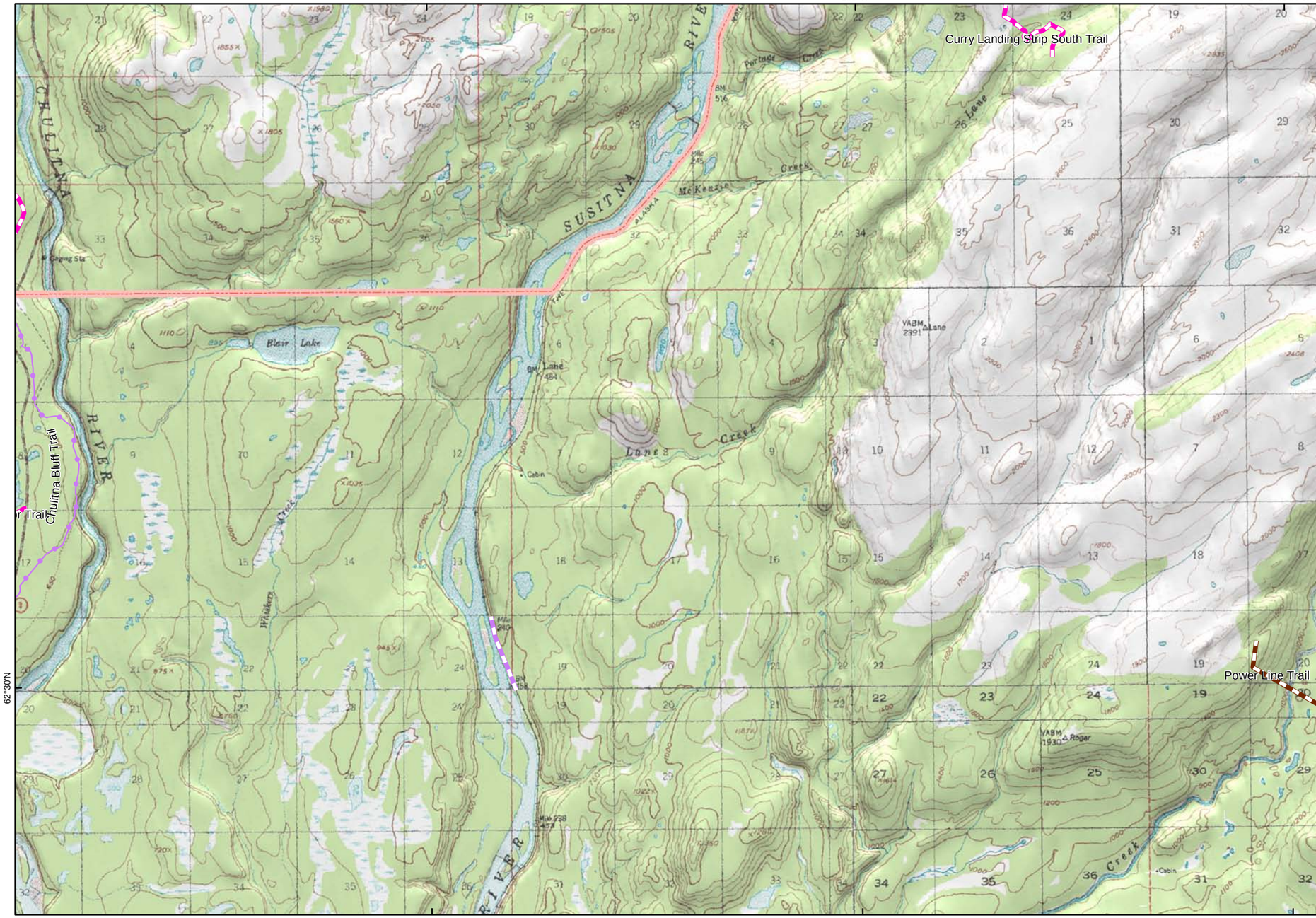
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A | Map 11 N | Map 12 NE

150°7'30"W | 150°W | 149°52'30"W

Map N/A

62°30'N



Map 10 E

150°7'30"W | 150°W | 149°52'30"W

Map N/A | Map 7 S | Map 8 SE

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

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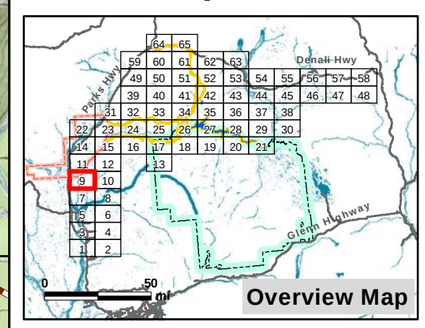
Map 9



0 1 2 mi

0 1 2 3 km

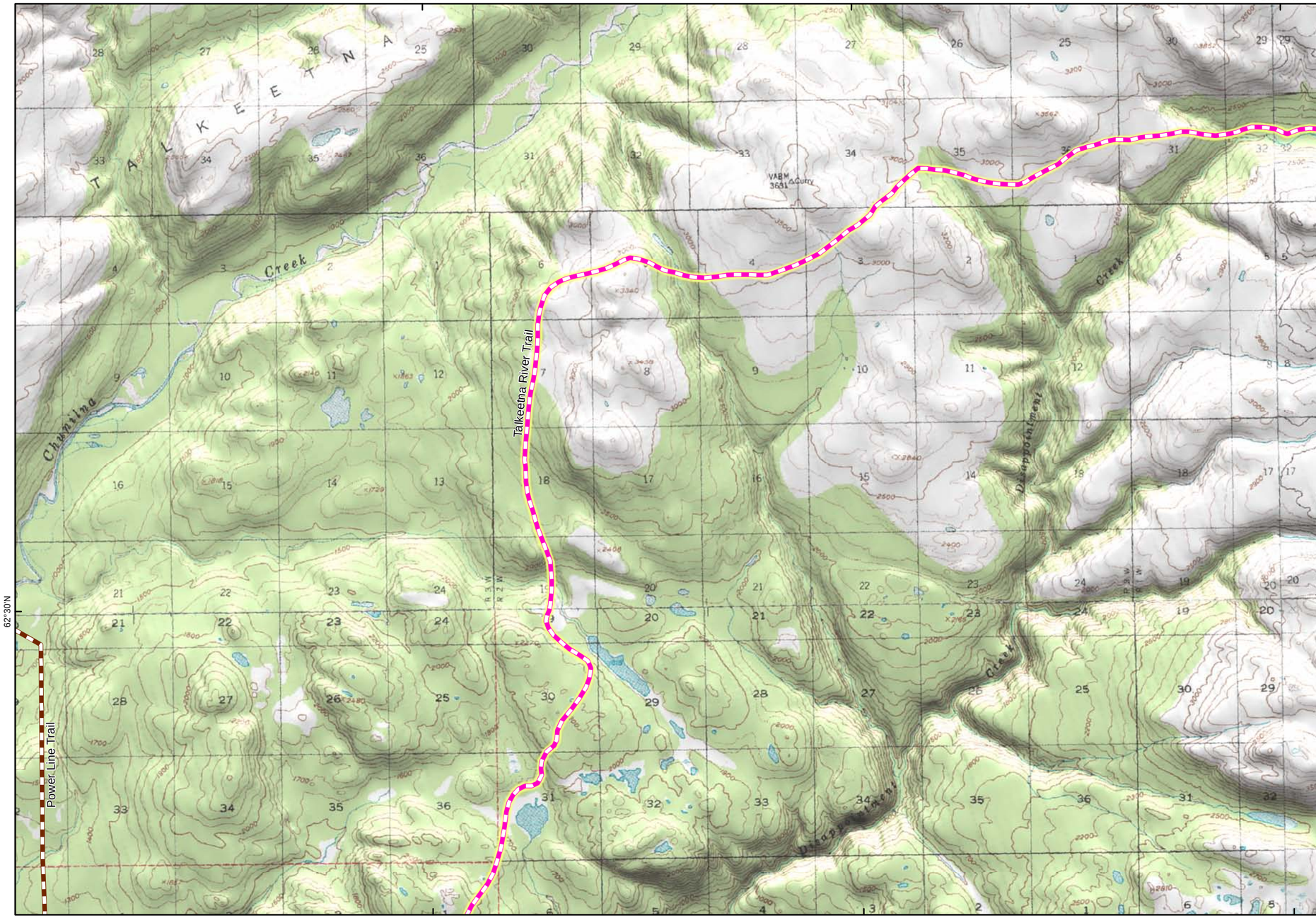
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 11 NW | Map 12 N | Map N/A

149°45'W | 149°37'30"W | 149°30'W

Map 9 W

62°30'N



149°45'W | 149°37'30"W | 149°30'W

Map 7 SW | Map 8 S | Map N/A

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

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Map N/A

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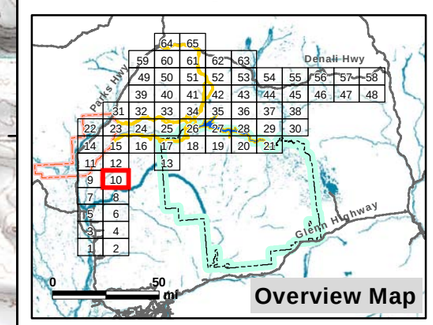
Map 10



0 1 2 mi

0 1 2 3 km

N

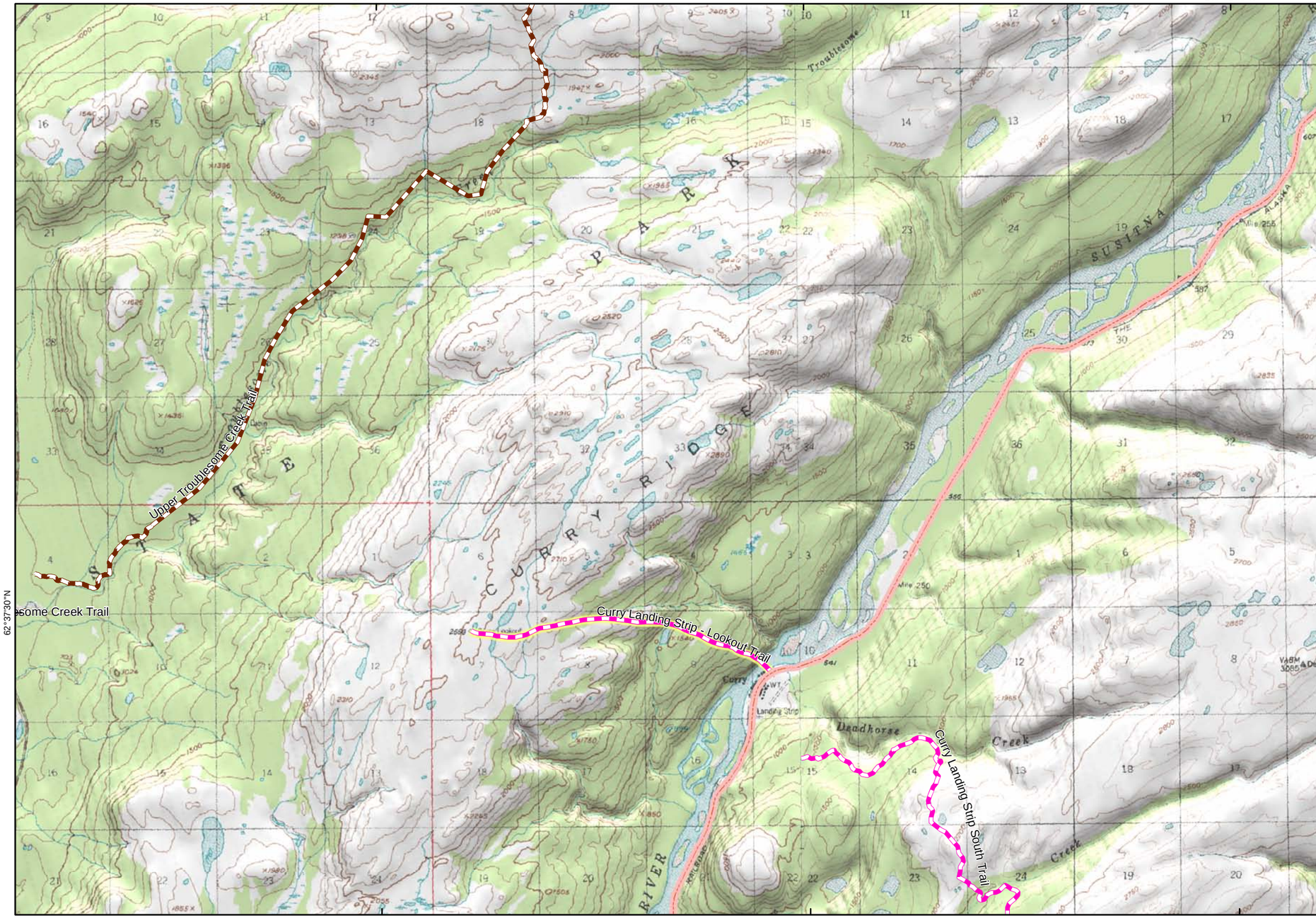
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A | Map 14 N | Map 15 NE

150°7'30"W | 150°W | 149°52'30"W

Map N/A

62°37'30"N



Map 12 E

150°7'30"W | 150°W | 149°52'30"W

Map N/A | Map 9 S | Map 10 SE

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

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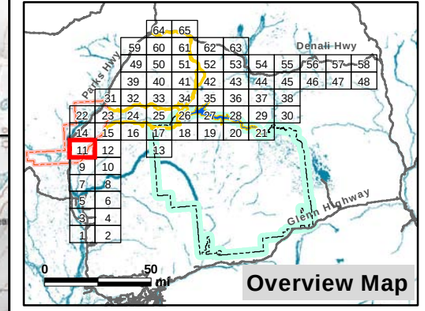
Map 11



0 1 2 mi

0 1 2 3 km

N

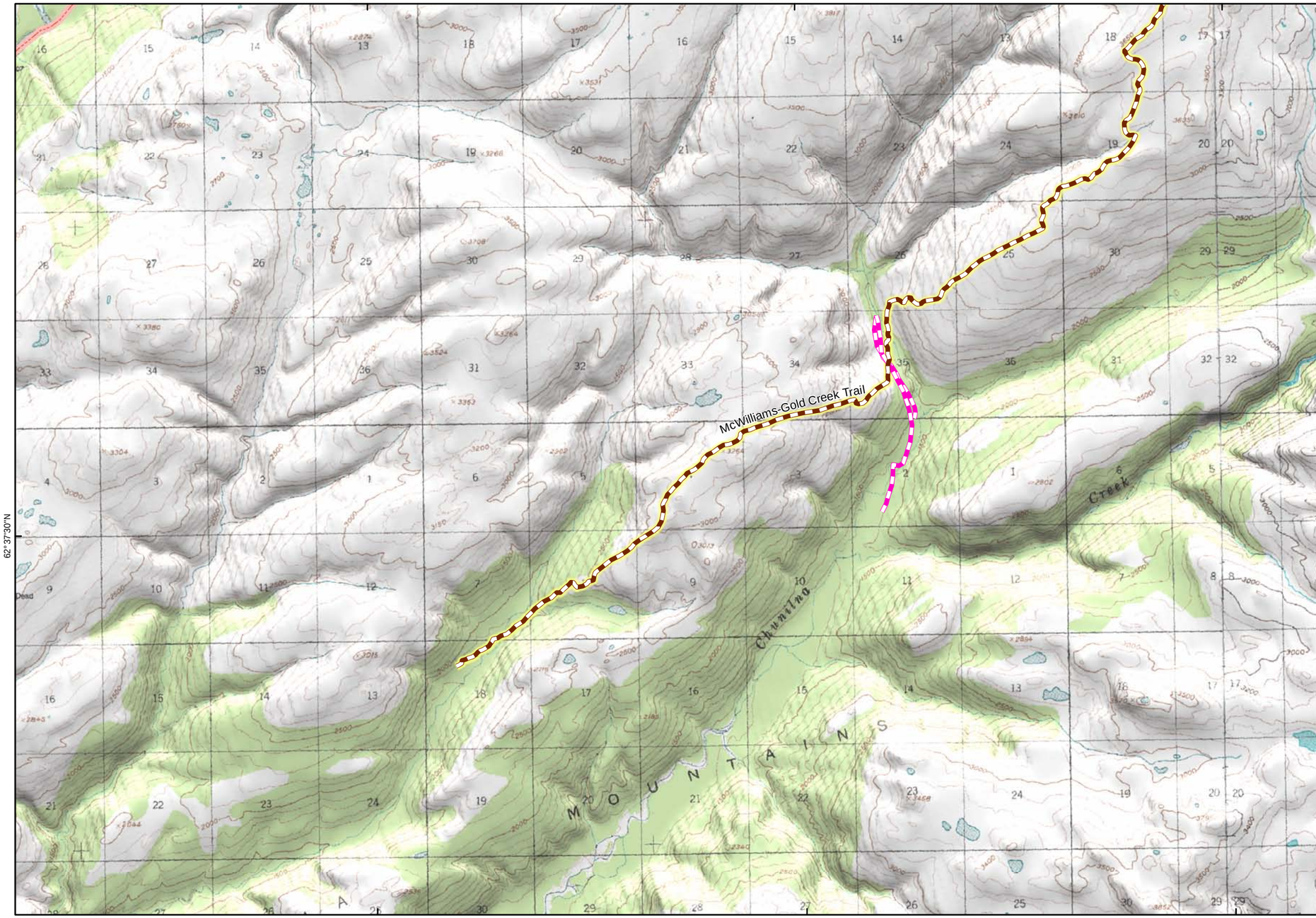
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 14 NW | Map 15 N | Map 16 NE

149°45'W | 149°37'30"W | 149°30'W

Map 11 W

62°37'30"N



Map N/A

149°45'W | 149°37'30"W | 149°30'W

Map 9 SW | Map 10 S | Map N/A

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

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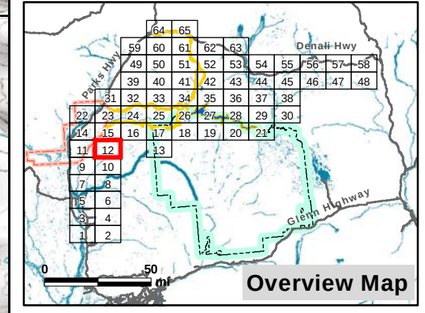
Map 12



0 1 2 mi

0 1 2 3 km

N

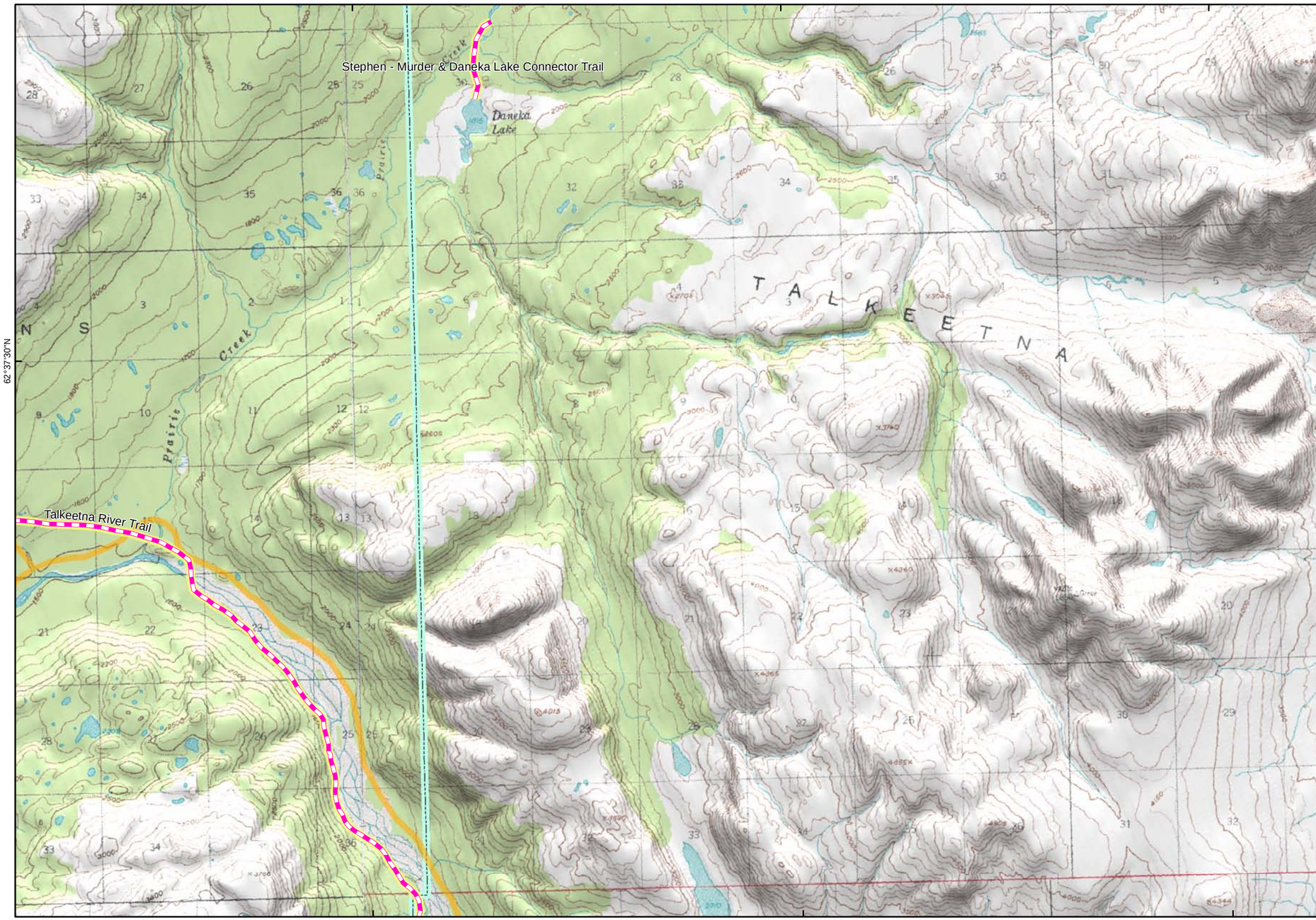
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 16 NW | Map 17 N | Map 18 NE

149°W | 148°52'30"W | 148°45'W

62°37'30"N

Map N/A



Map N/A

PRELIMINARY DRAFT

Trail Map Book

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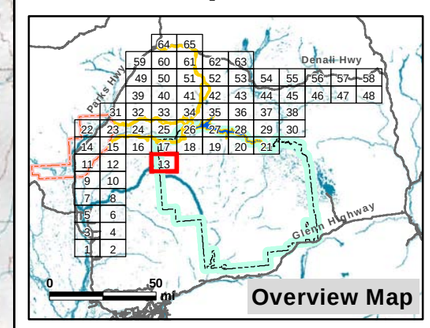
Map 13



0 1 2 mi

0 1 2 3 km

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

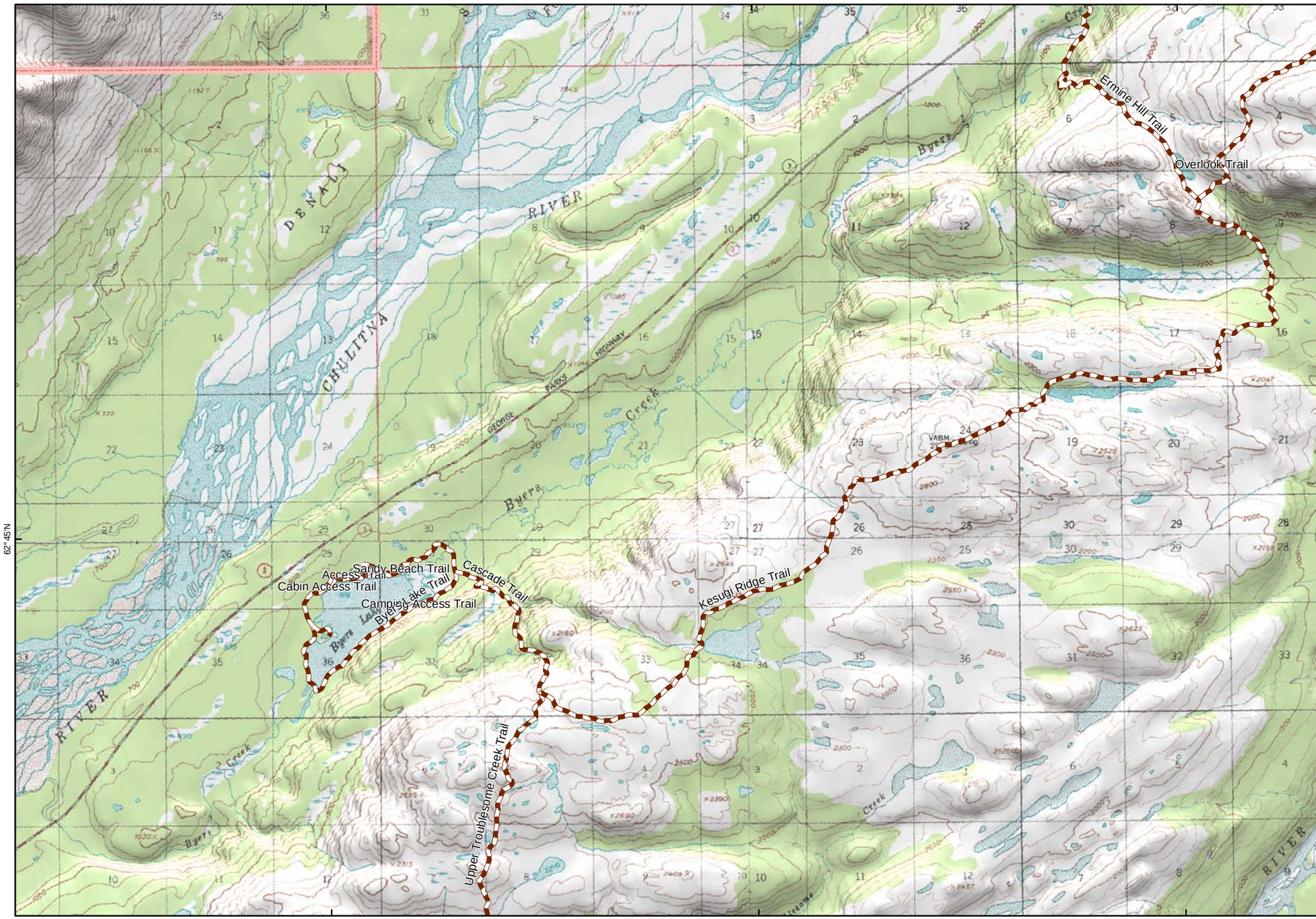
Map N/A | Map N/A | Map N/A

Map N/A | Map 22 N | Map 23 NE

150°7'30"W | 150°W | 149°52'30"W

Map N/A

62°45'N



Map 15 E

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

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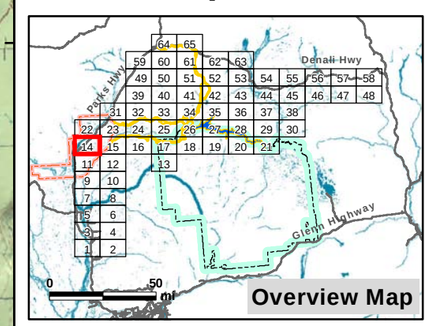
Map 14



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A | Map 11 S | Map 12 SE

Map 22 NW

Map 23 N

Map 24 NE

149°45'W

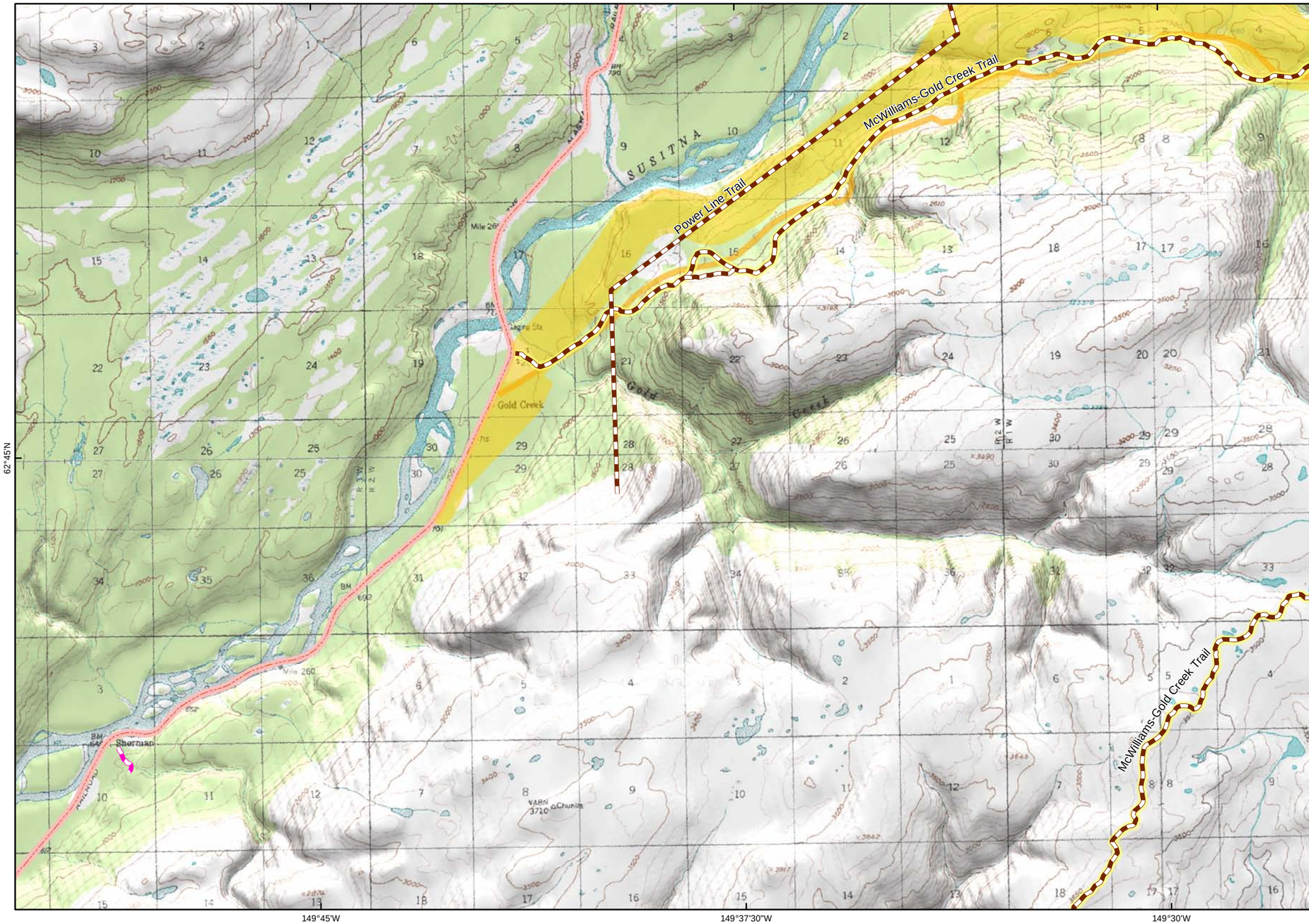
149°37'30"W

149°30'W

Map 14 W

62°45'N

Map 16 E



Map 11 SW

Map 12 S

Map N/A

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

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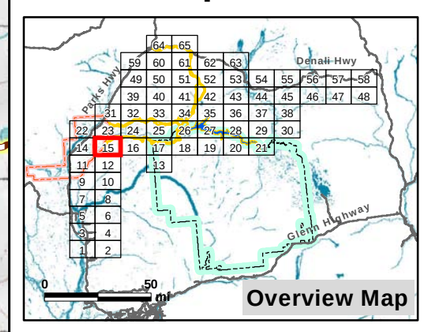
Map 15



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 23 NW

Map 24 N

Map 25 NE

149°22'30"W

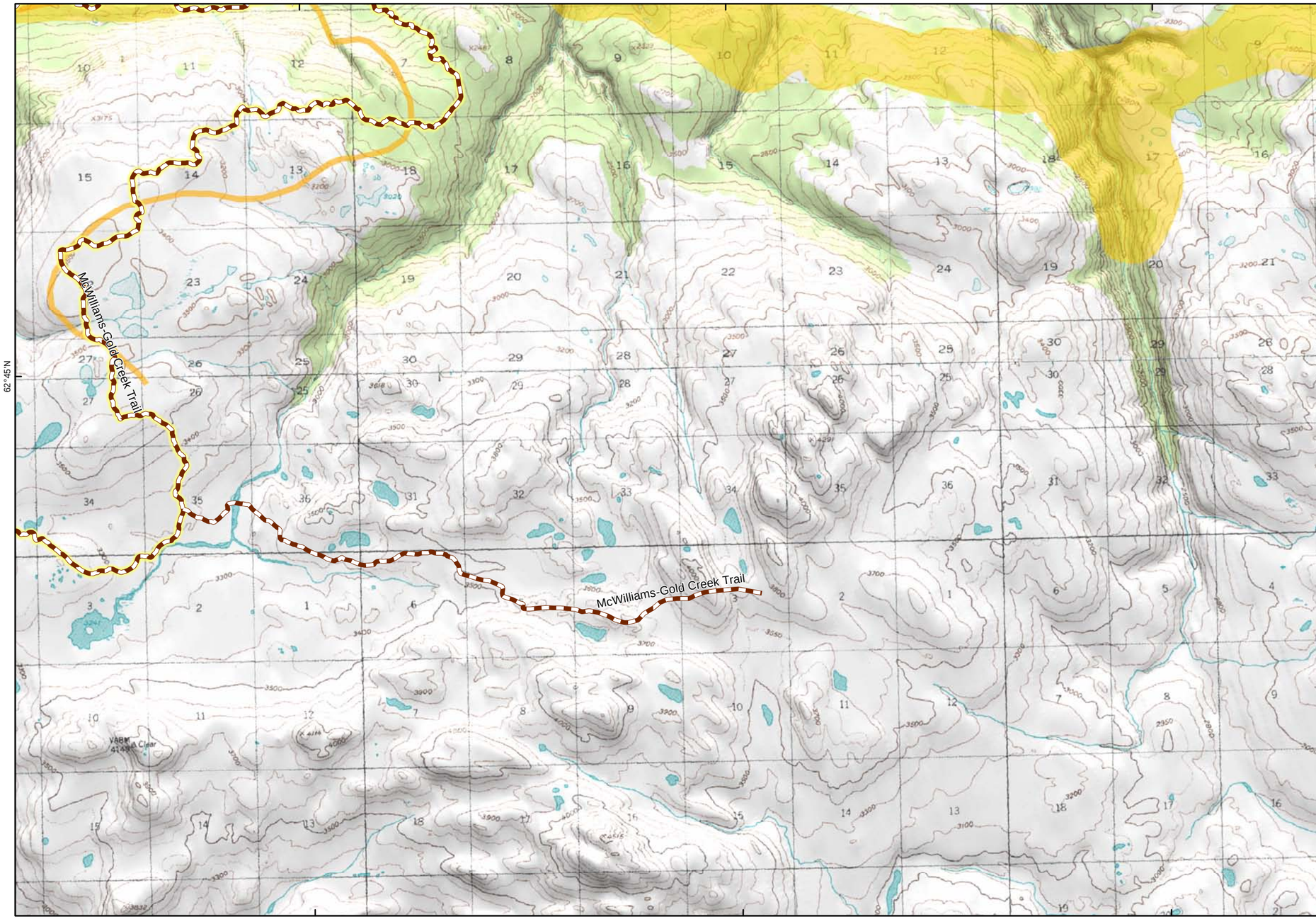
149°15'W

149°7'30"W

62°45'N

Map 15 W

Map 17 E



Map 12 SW

Map N/A

Map 13 SE

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

Trail Map Book

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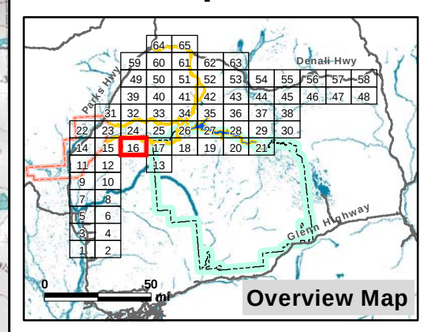
Map 16



0 1 2 mi

0 1 2 3 km

N

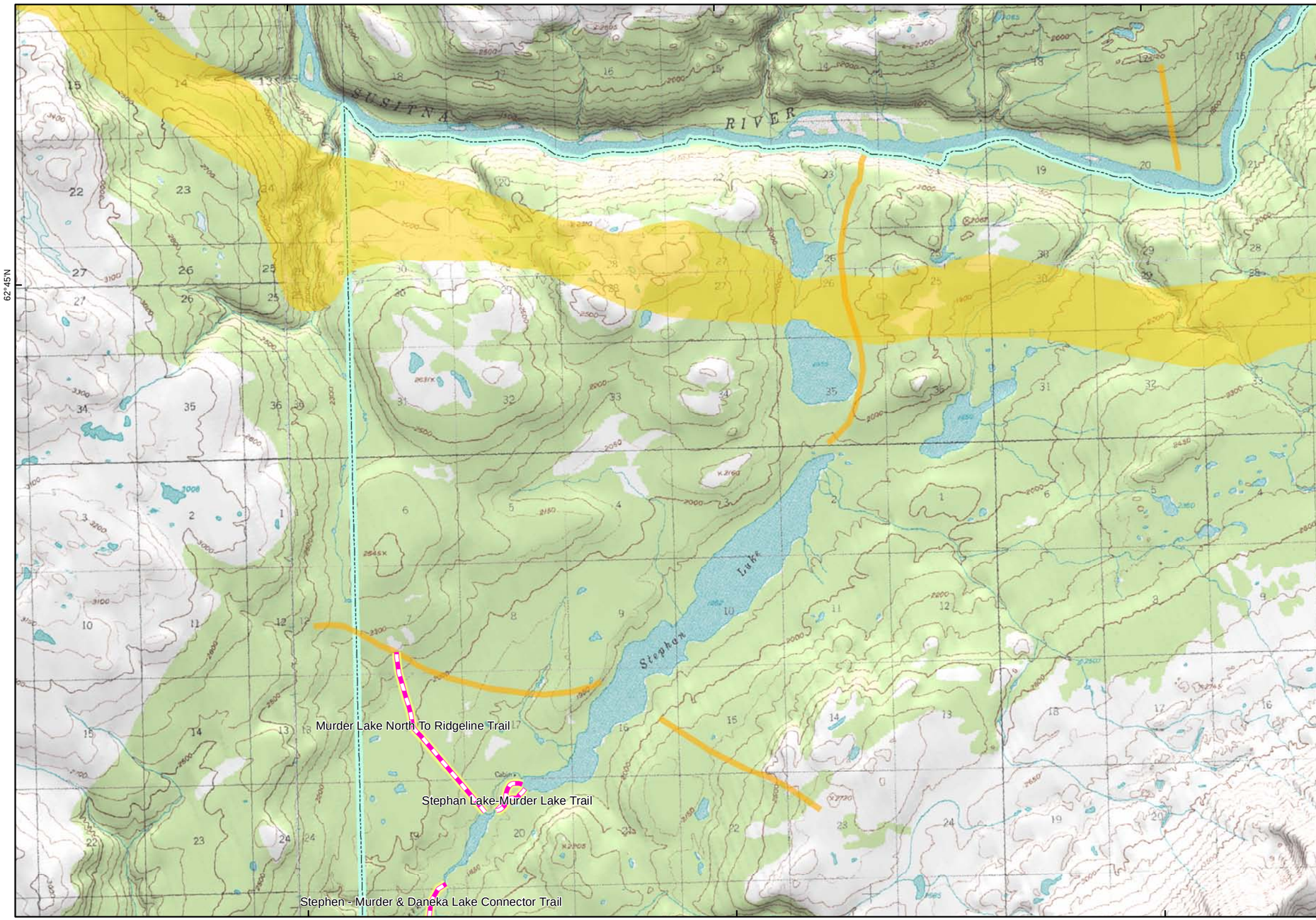
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 24 NW | Map 25 N | Map 26 NE

149°W | 148°52'30"W | 148°45'W

62°45'N

Map 16 W



Map 18 E

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

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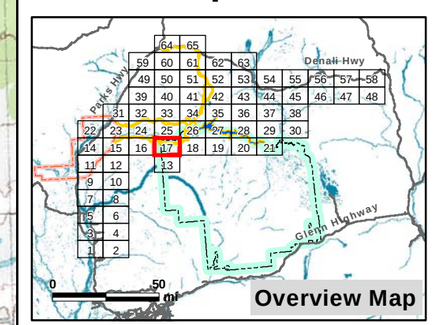
Map 17



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

149°W | 148°52'30"W | 148°45'W

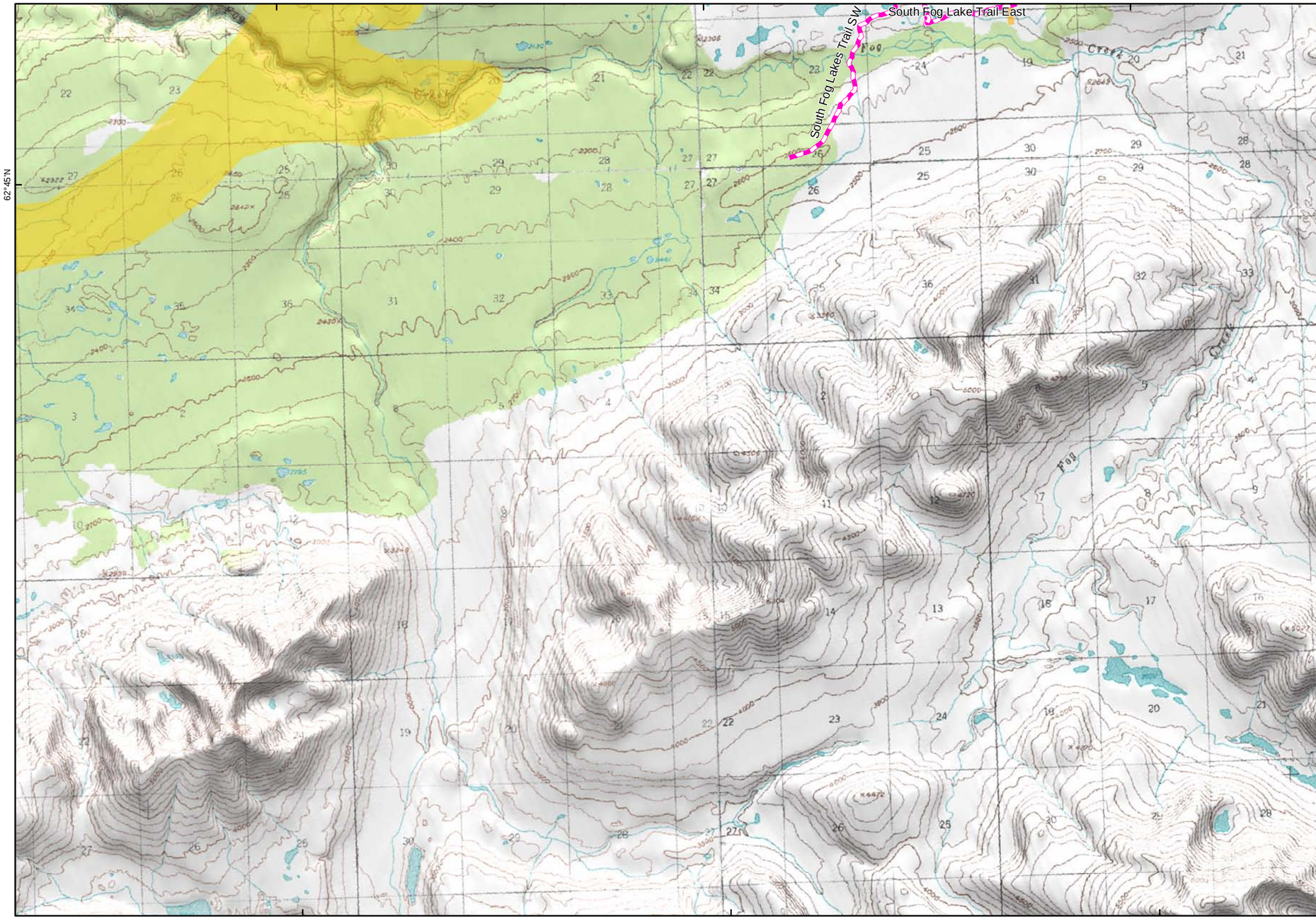
Map N/A | Map 13 S | Map N/A

Map 25 NW | Map 26 N | Map 27 NE

148°37'30"W | 148°30'W | 148°22'30"W

62°45'N

Map 17 W



Map 19 E

148°37'30"W | 148°30'W | 148°22'30"W

Map 13 SW | Map N/A | Map N/A

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

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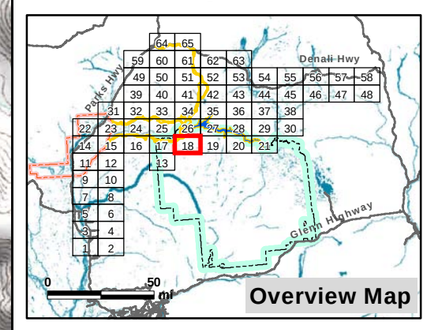
Map 18



0 1 2 mi

0 1 2 3 km

N

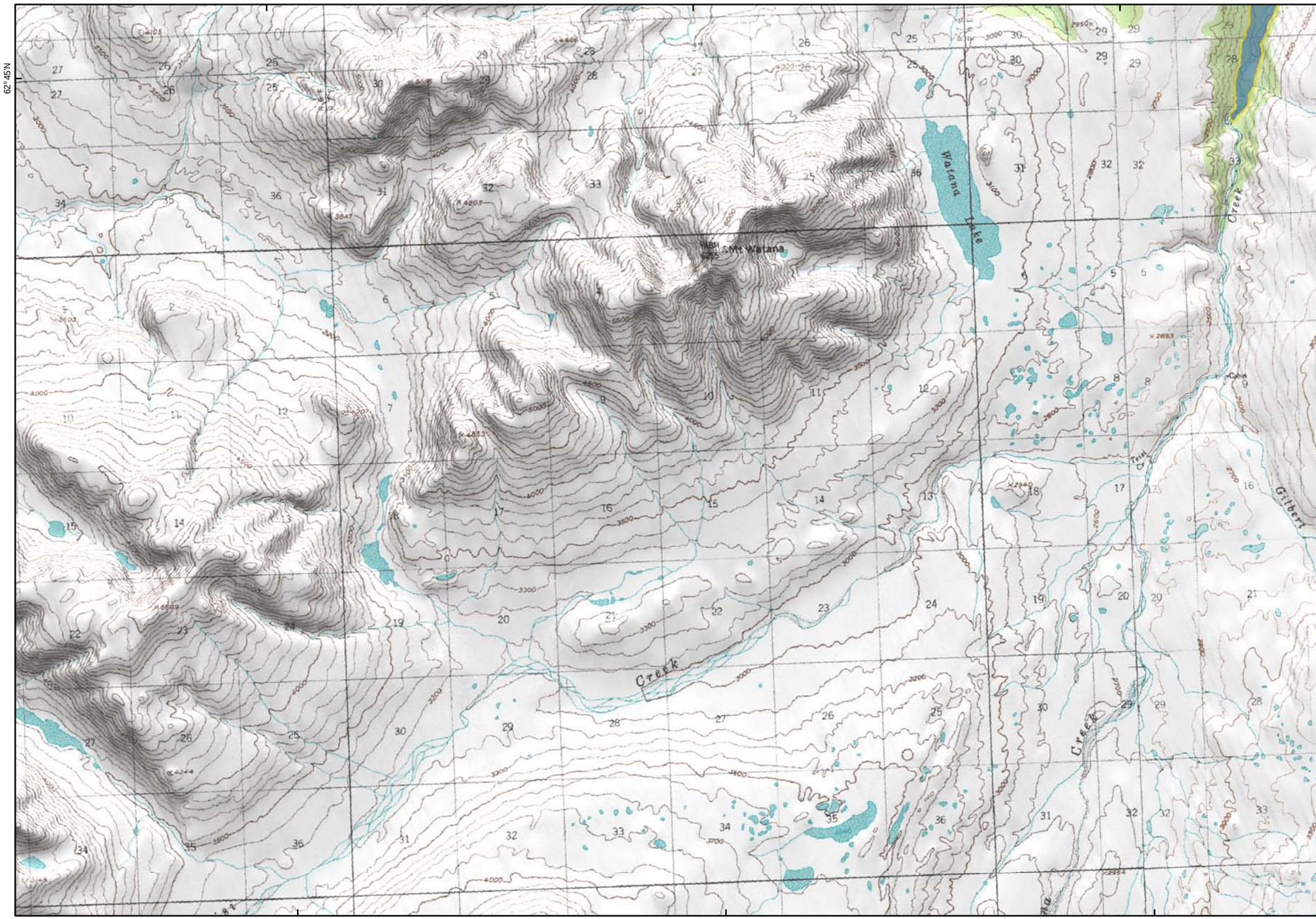
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 26 NW | Map 27 N | Map 28 NE

148°15'W | 148°7'30"W | 148°W

62°45'N

Map 18 W



Map 20 E

148°15'W | 148°7'30"W | 148°W

Map N/A | Map N/A | Map N/A

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

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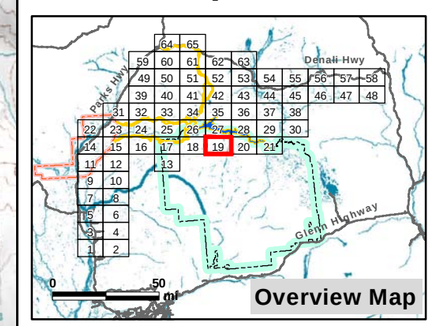
Map 19



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 27 NW

Map 28 N

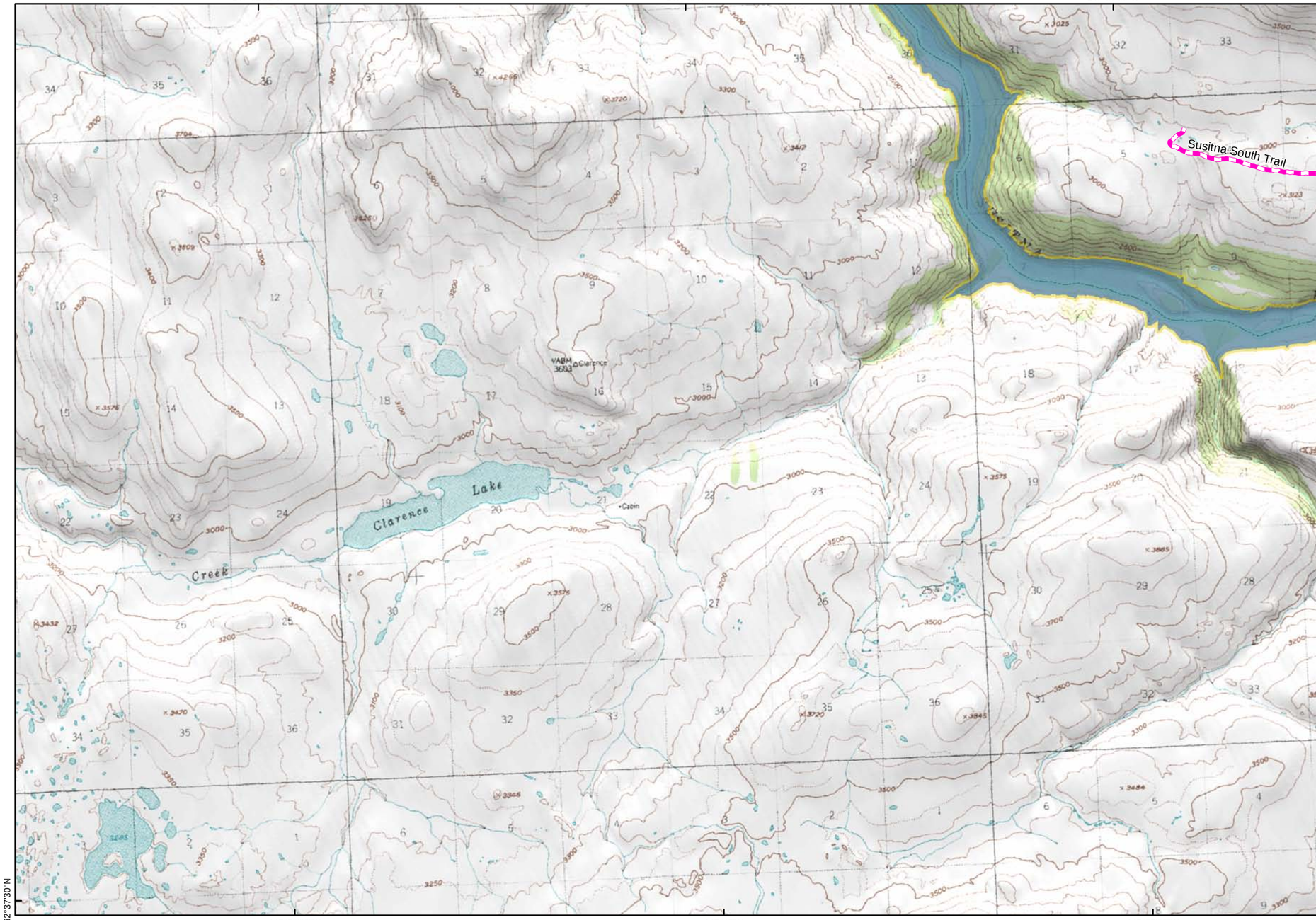
Map 29 NE

147°52'30"W

147°45'W

147°37'30"W

Map 19 W



Map 21 E

62°37'30"N

147°52'30"W

147°45'W

147°37'30"W

Map N/A

Map N/A

Map N/A

ALASKA ENERGY AUTHORITY

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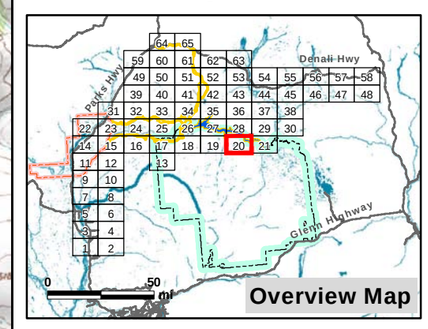
Map 20



0 1 2 mi

0 1 2 3 km

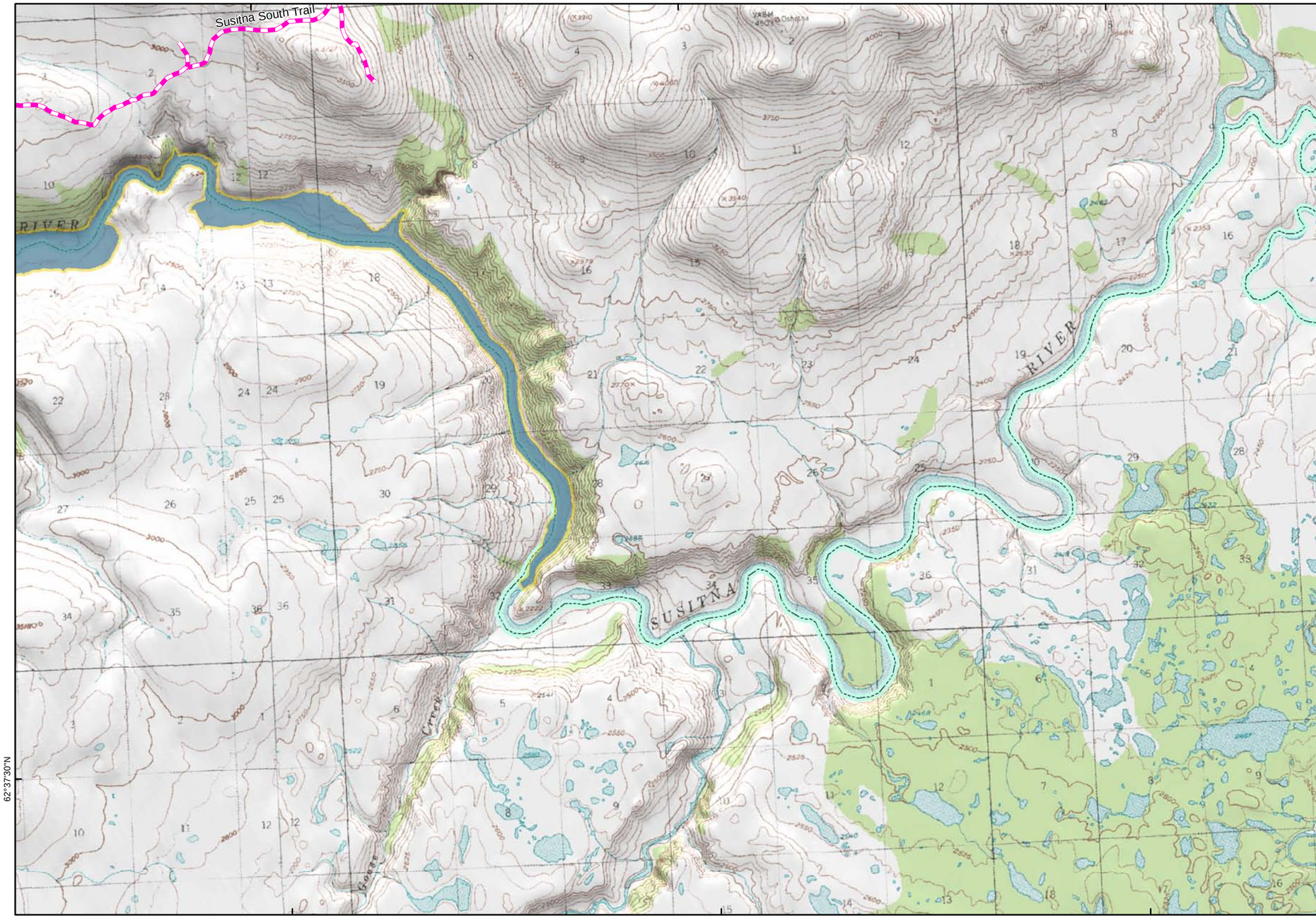
N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 28 NW | Map 29 N | Map 30 NE

147°30'W | 147°22'30"W | 147°15'W

Map 20 W



62°37'30"N

147°30'W | 147°22'30"W | 147°15'W

Map N/A | Map N/A | Map N/A

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

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Map N/A

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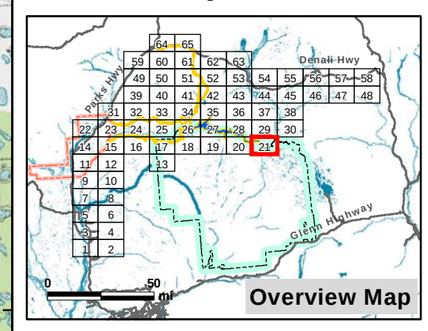
Map 21



0 1 2 mi

0 1 2 3 km

N

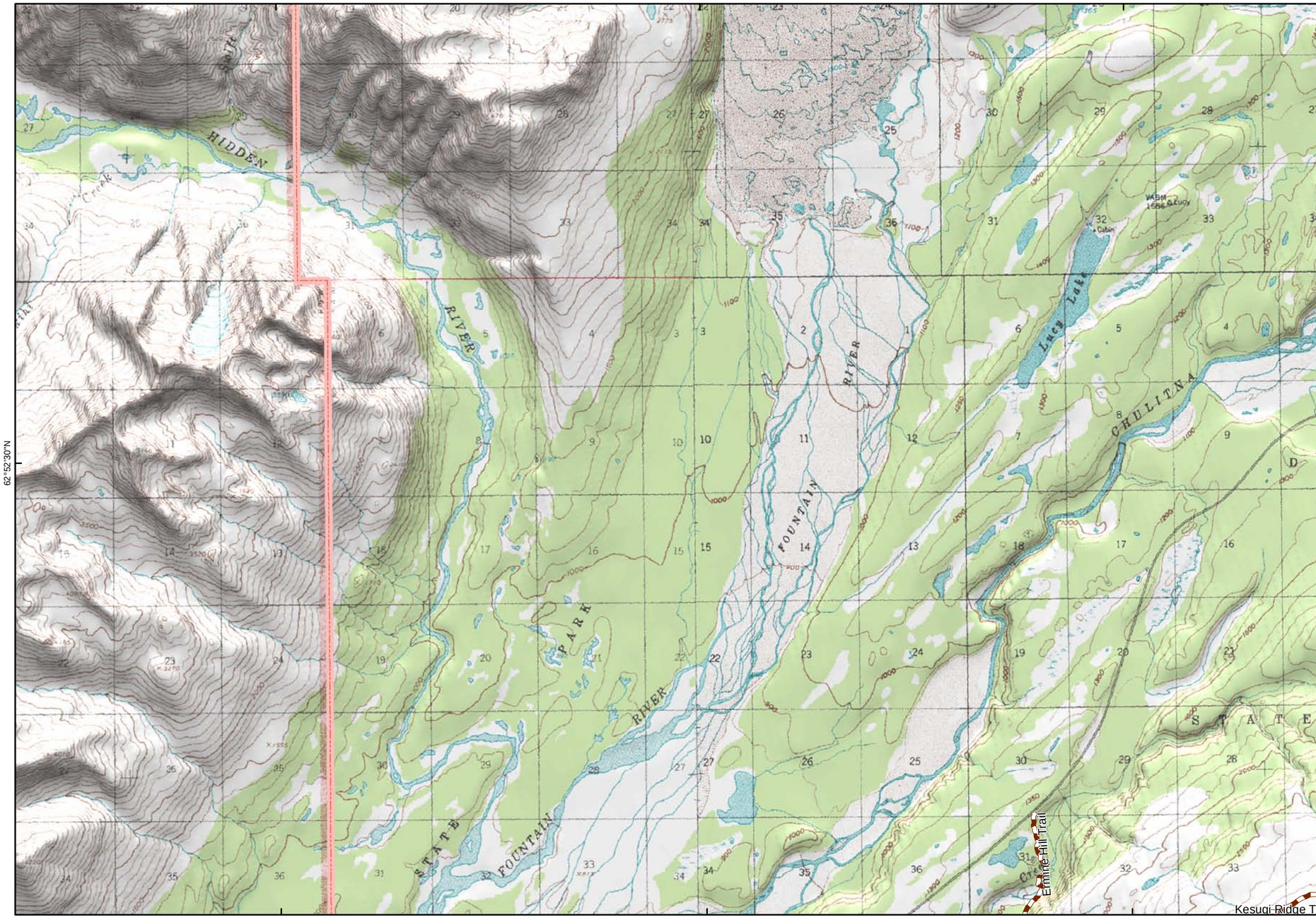
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A | Map N/A | Map 31 NE

150°7'30"W | 150°W | 149°52'30"W

Map N/A

62°52'30"N



Map 23 E

150°7'30"W | 150°W | 149°52'30"W

Map N/A | Map 14 S | Map 15 SE

ALASKA ENERGY AUTHORITY

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Trail Map Book

Legend

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- Winter Trail
- Year Round Trail
- Groomed Snow Cat Trail
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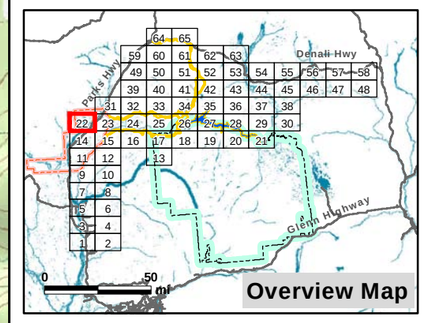
- RS 2477 Trail
- CIRI 17b Trail Easments

Send additional trail data and revisions to tim.kramer@urs.com

Map 22



0 1 2 mi

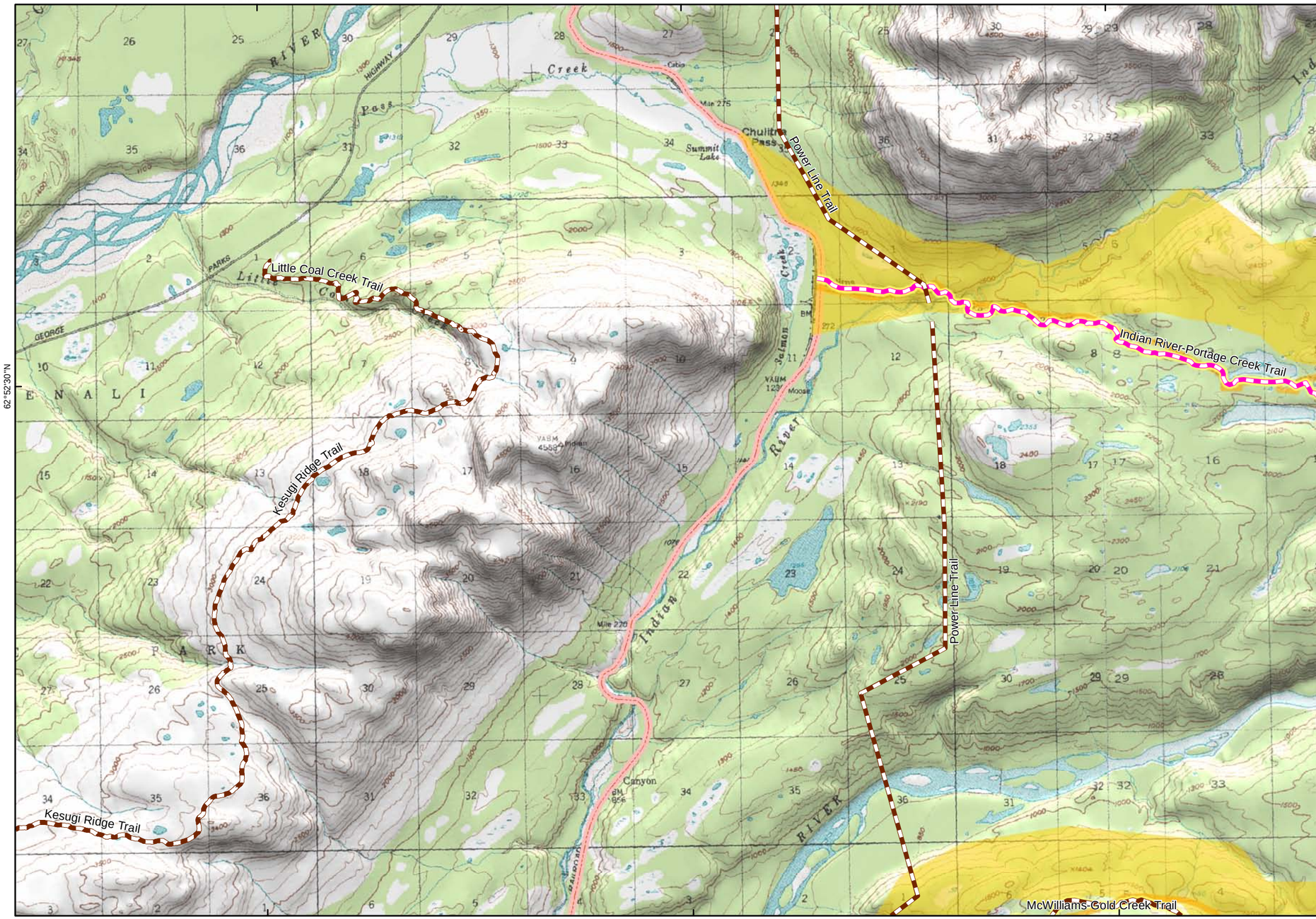
0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A | Map 31 N | Map 32 NE

149°45'W | 149°37'30"W | 149°30'W



Map 22 W | Map 24 E

62°52'30"N

Map 14 SW | Map 15 S | Map 16 SE

ALASKA ENERGY AUTHORITY

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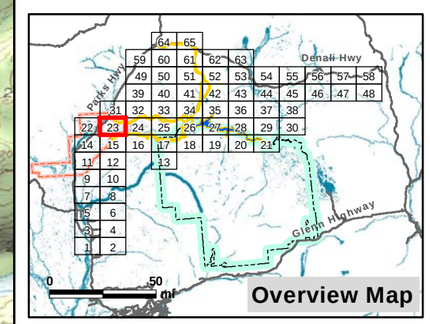
Map 23



0 1 2 mi

0 1 2 3 km

N

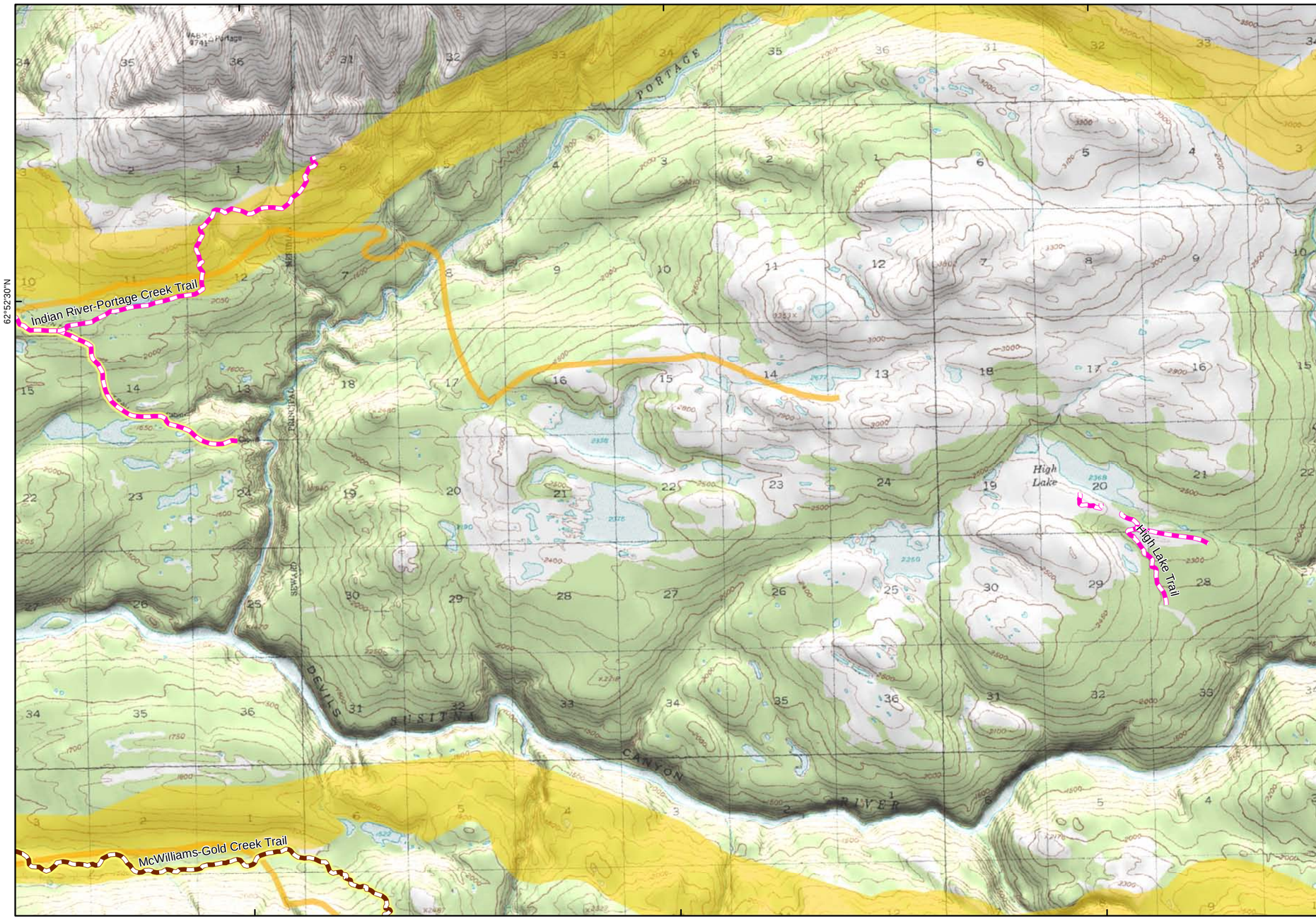
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 31 NW | Map 32 N | Map 33 NE

149°22'30"W | 149°15'W | 149°7'30"W

62°52'30"N

Map 23 W



Map 25 E

149°22'30"W | 149°15'W | 149°7'30"W

Map 15 SW | Map 16 S | Map 17 SE

ALASKA ENERGY AUTHORITY

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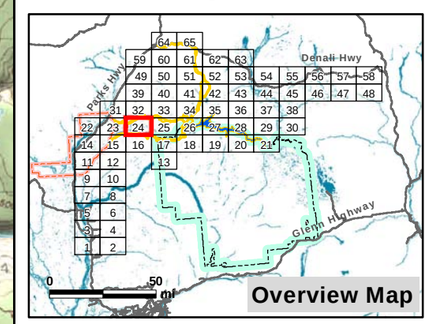
Map 24



0 1 2 mi

0 1 2 3 km

N

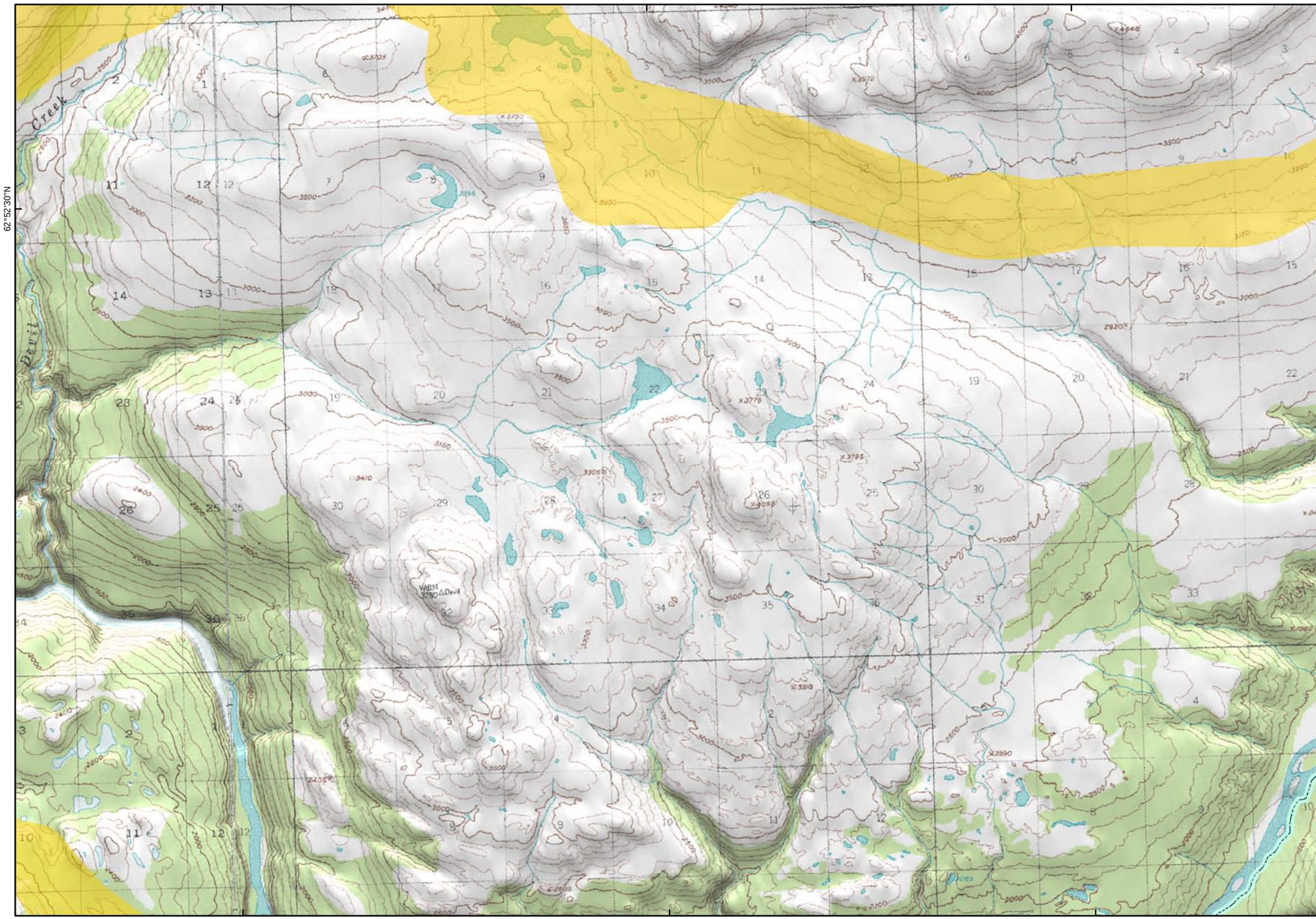
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 32 NW | Map 33 N | Map 34 NE

149°W | 148°52'30"W | 148°45'W

62°52'30"N

Map 24 W



Map 26 E

149°W | 148°52'30"W | 148°45'W

Map 16 SW | Map 17 S | Map 18 SE

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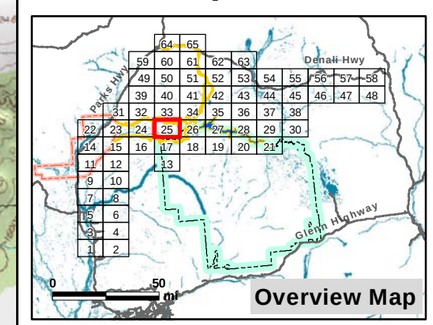
Map 25



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 33 NW

Map 34 N

Map 35 NE

148°37'30"W

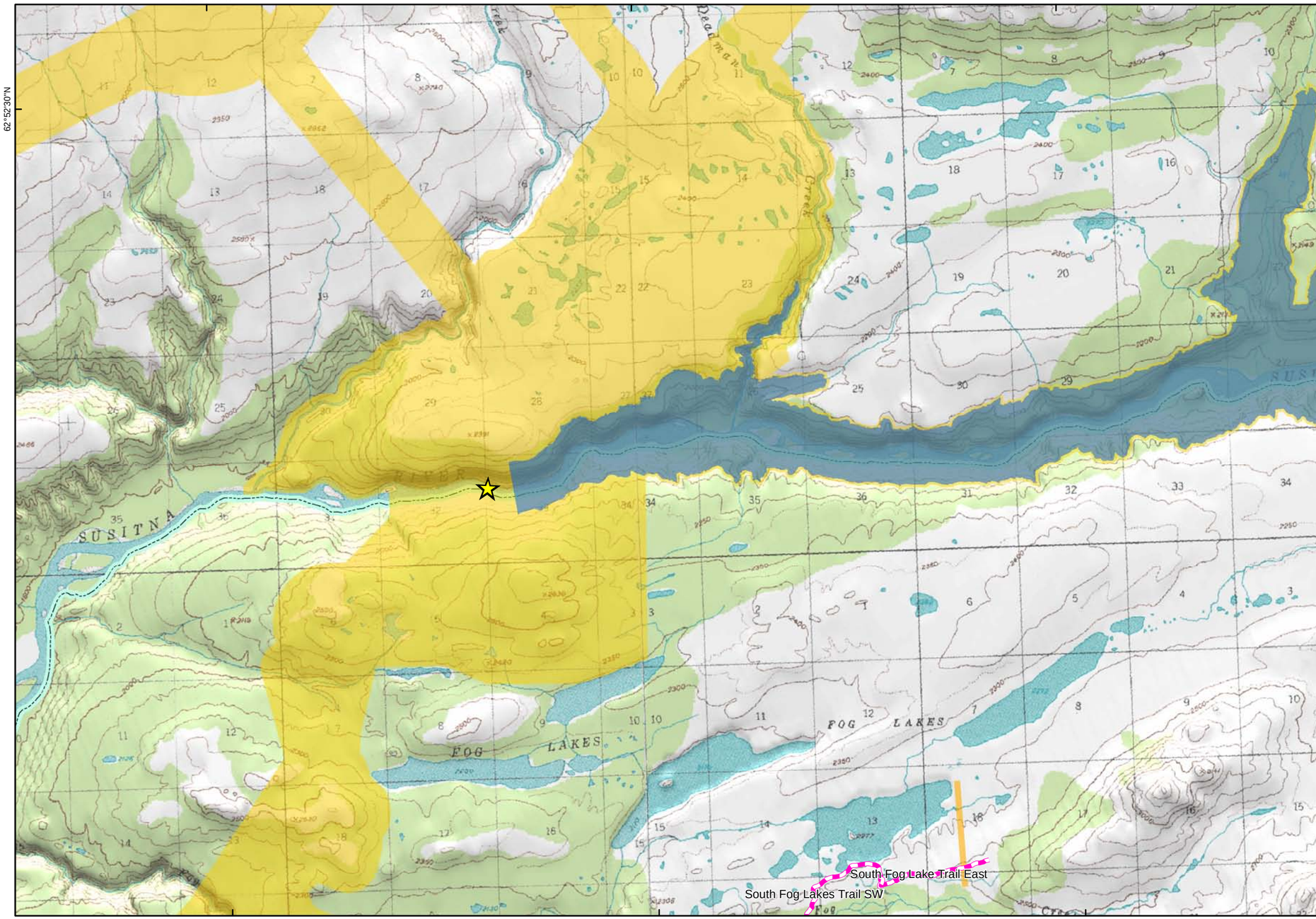
148°30'W

148°22'30"W

62°52'30"N

Map 25 W

Map 27 E



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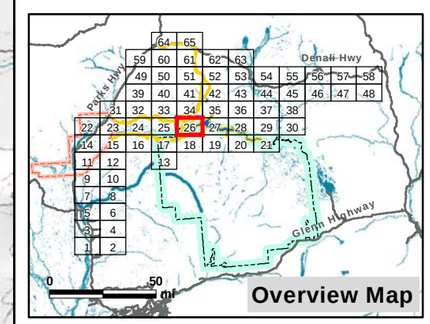
Map 26



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

148°37'30"W

148°30'W

148°22'30"W

Map 17 SW

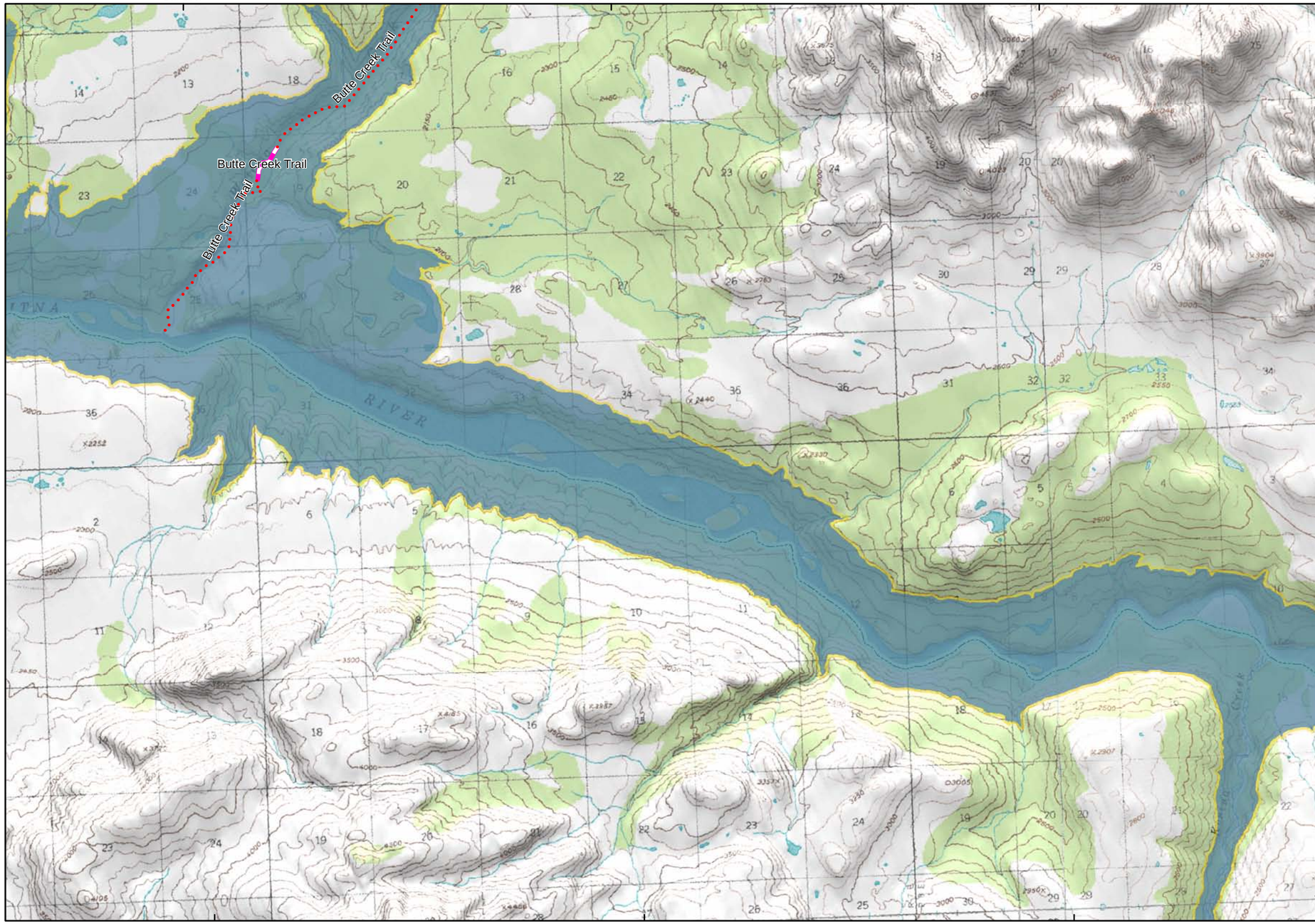
Map 18 S

Map 19 SE

Map 34 NW | Map 35 N | Map 36 NE

148°15'W | 148°7'30"W | 148°W

Map 26 W



Map 28 E

ALASKA ENERGY AUTHORITY

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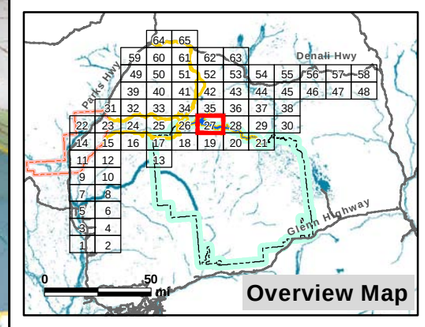
Map 27



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

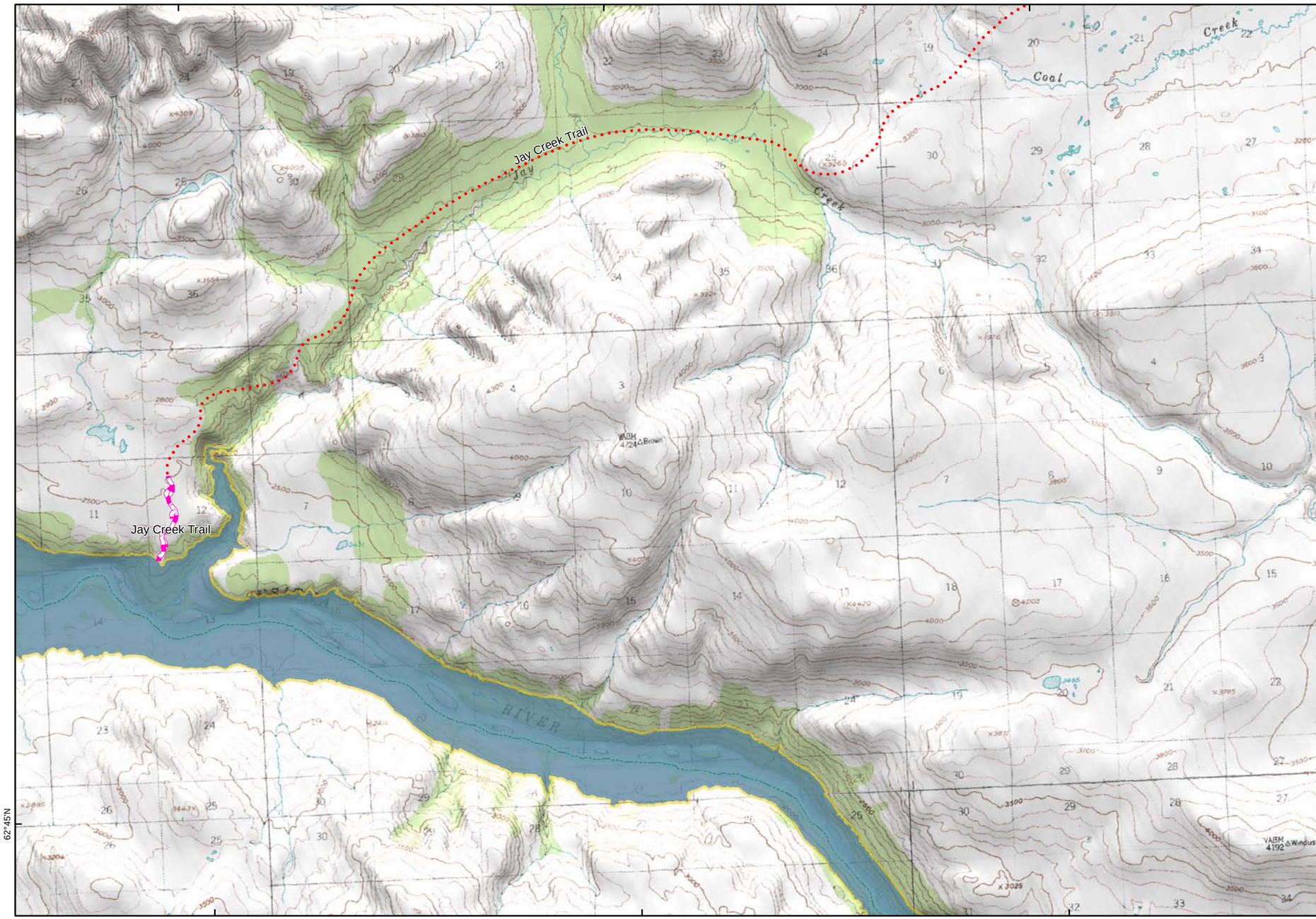
148°15'W | 148°7'30"W | 148°W

Map 18 SW | Map 19 S | Map 20 SE

Map 35 NW | Map 36 N | Map 37 NE

147°52'30"W | 147°45'W | 147°37'30"W

Map 27 W



Map 29 E

62°45'N

147°52'30"W | 147°45'W | 147°37'30"W

Map 19 SW | Map 20 S | Map 21 SE

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

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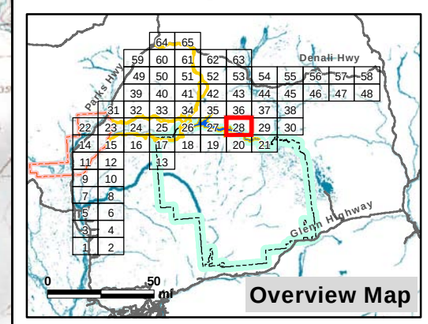
Map 28



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 36 NW

Map 37 N

Map 38 NE

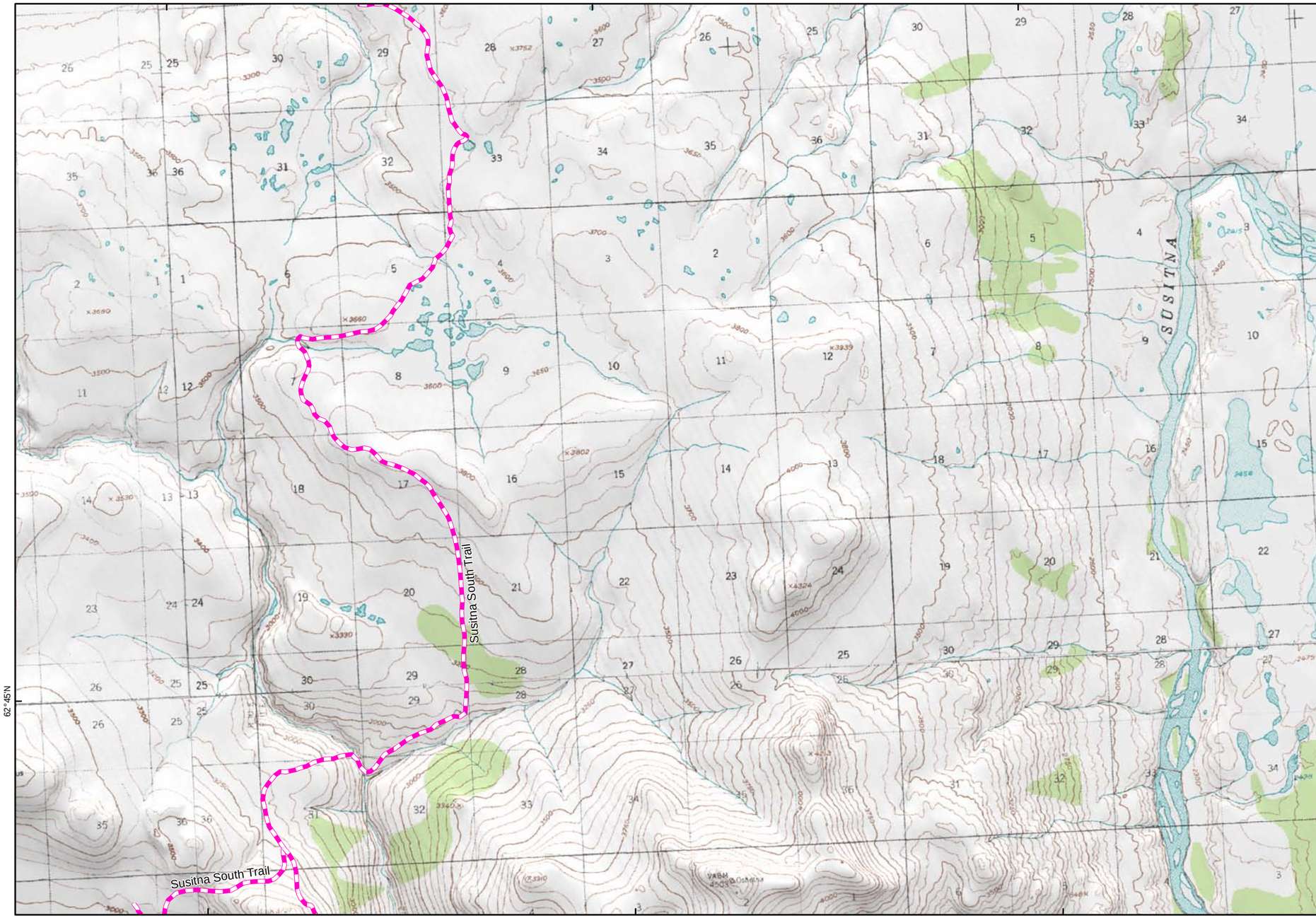
147°30'W

147°22'30"W

147°15'W

Map 28 W

62°45'N



Map 30 E

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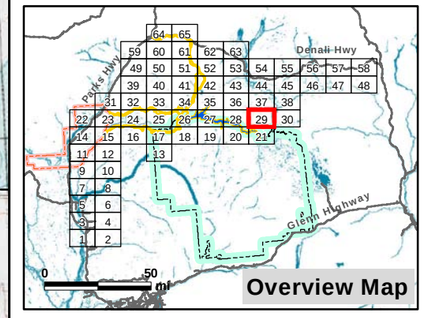
Map 29



0 1 2 mi

0 1 2 3 km

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

147°30'W

147°22'30"W

147°15'W

Map 20 SW

Map 21 S

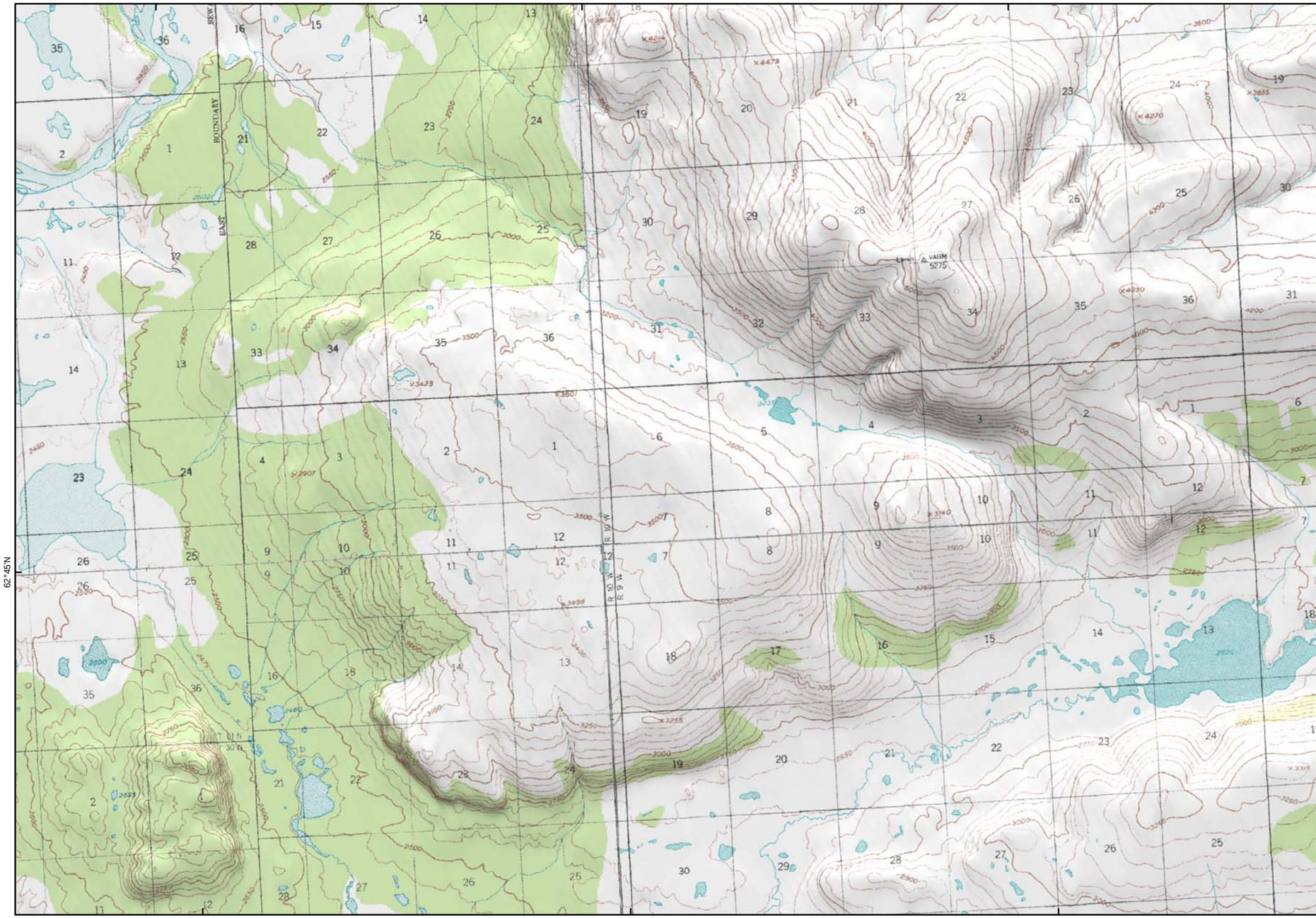
Map N/A

Map 37 NW | Map 38 N | Map N/A

147°7'30"W | 147°W | 146°52'30"W

Map 29 W

62°45'N



Map N/A

ALASKA ENERGY AUTHORITY

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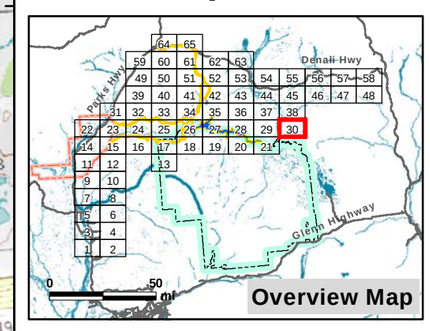
Map 30



0 1 2 mi

0 1 2 3 km

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

147°7'30"W | 147°W | 146°52'30"W

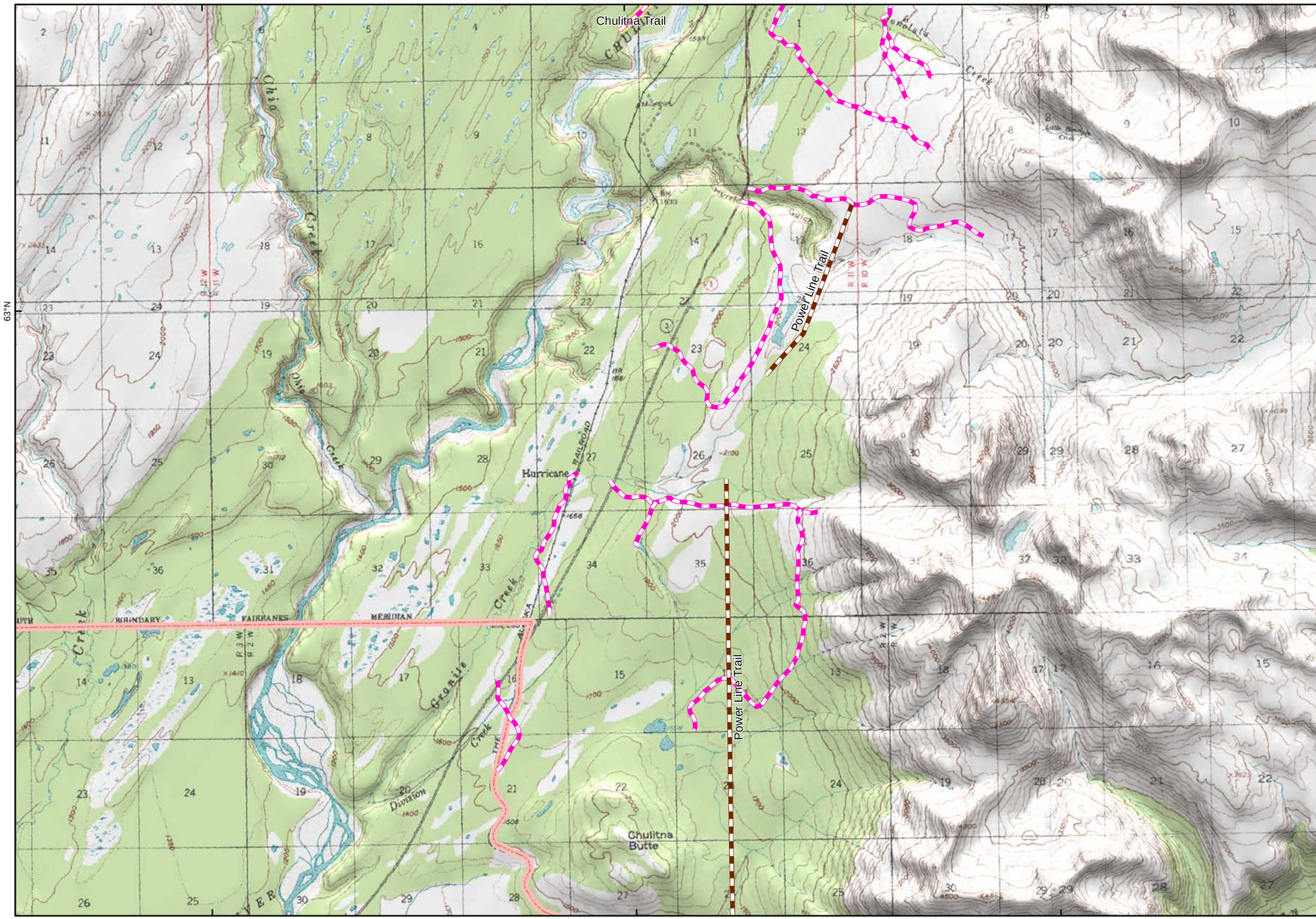
Map 21 SW | Map N/A | Map N/A

Map N/A | Map N/A | Map 39 NE

149°45'W | 149°37'30"W | 149°30'W

63°N

Map N/A



149°45'W | 149°37'30"W | 149°30'W

Map 22 SW | Map 23 S | Map 24 SE

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Map 32 E

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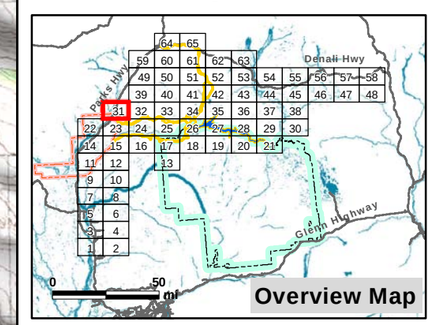
Map 31



0 1 2 mi

0 1 2 3 km

N

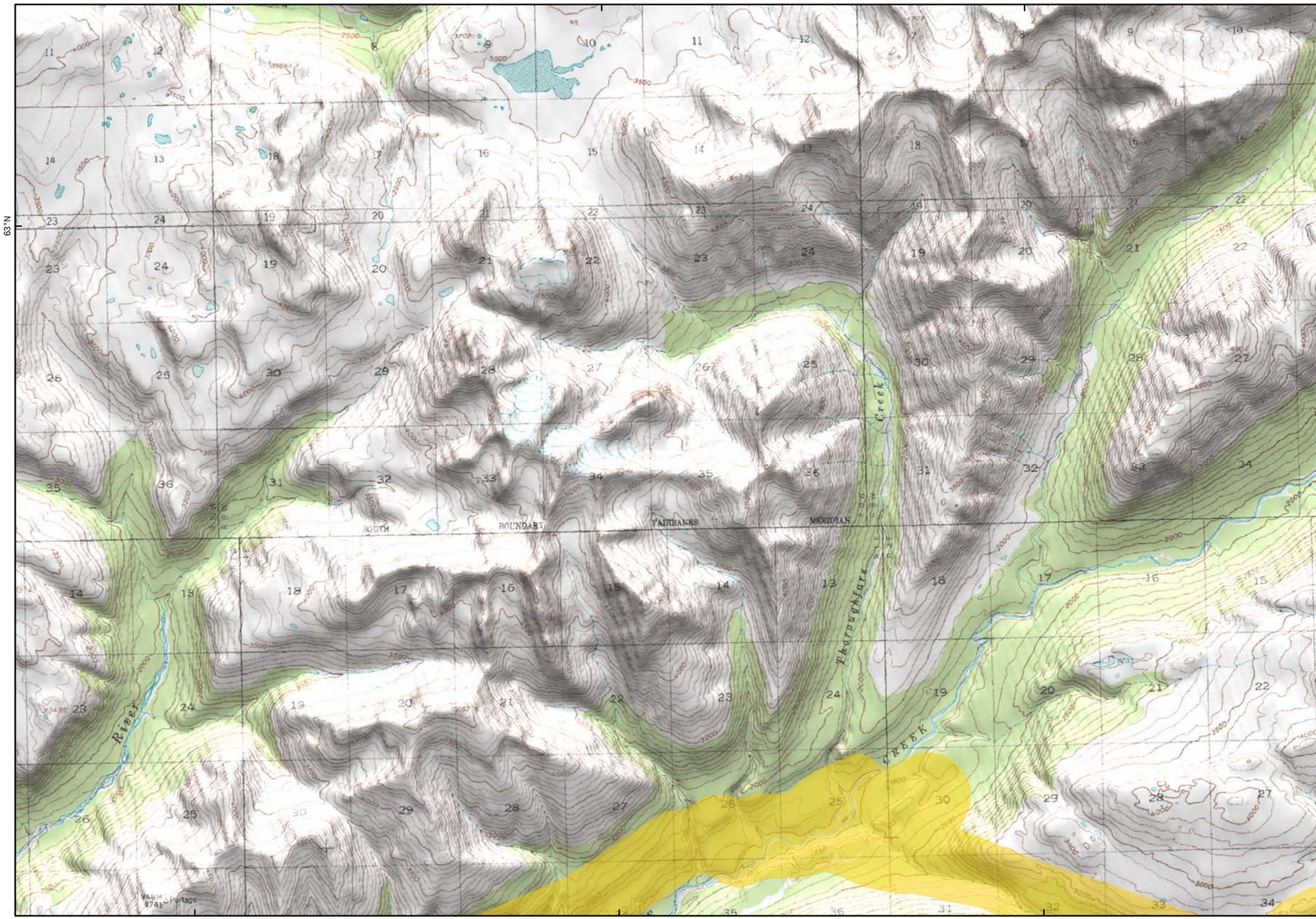
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A | Map 39 N | Map 40 NE

149°22'30"W | 149°15'W | 149°7'30"W

63°N

Map 31 W



Map 33 E

149°22'30"W | 149°15'W | 149°7'30"W

Map 23 SW | Map 24 S | Map 25 SE

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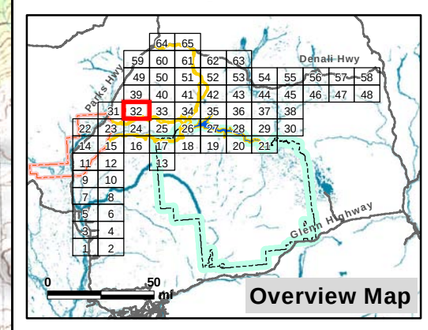
Map 32



0 1 2 mi

0 1 2 3 km

N

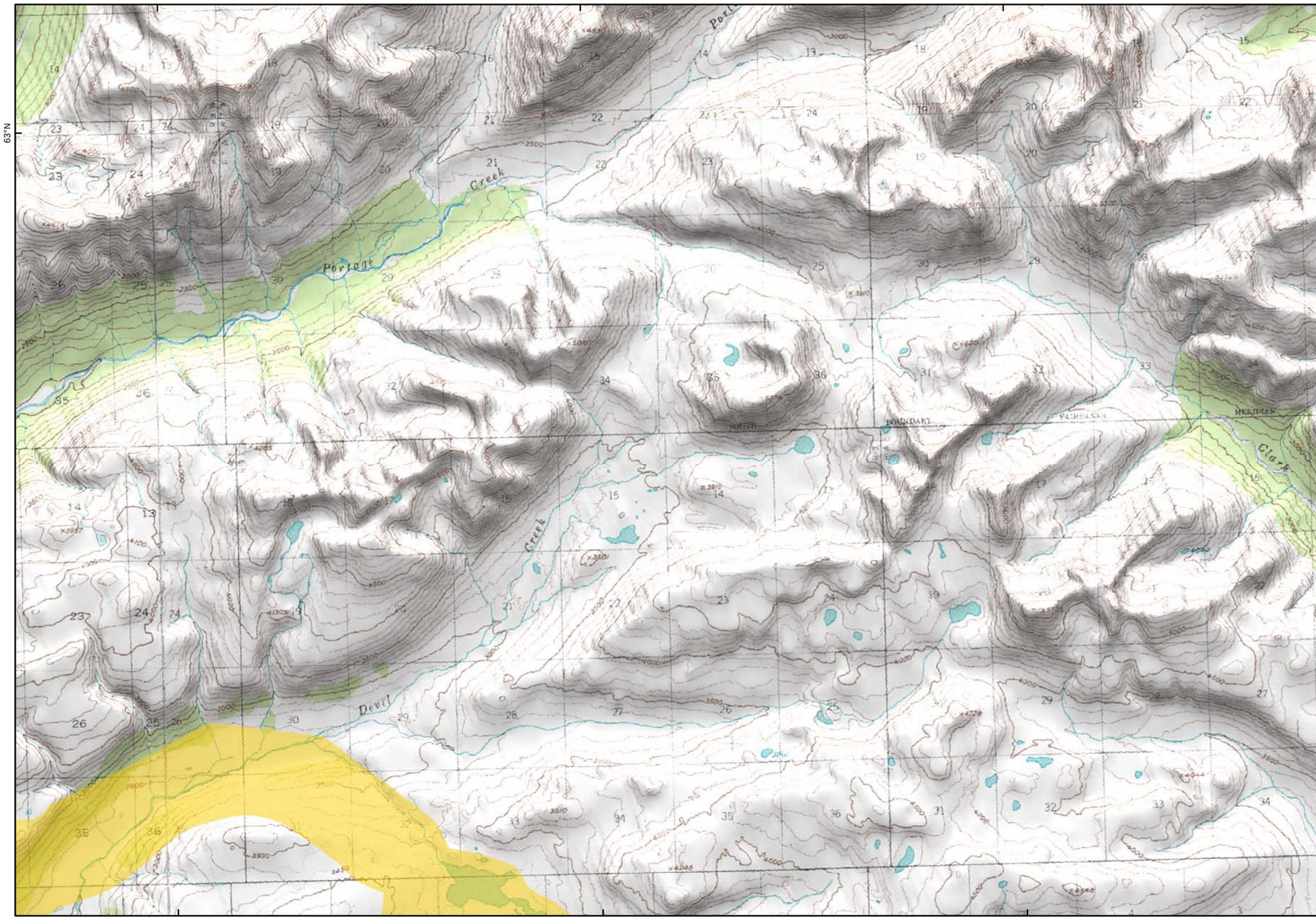
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 39 NW | Map 40 N | Map 41 NE

149°W | 148°52'30"W | 148°45'W

63°N

Map 32 W



Map 34 E

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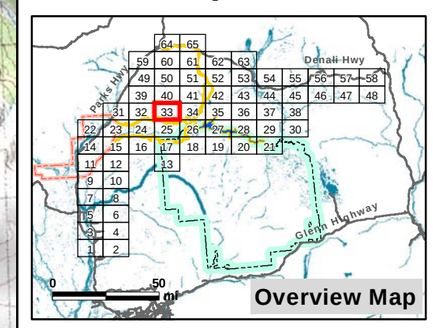
Map 33



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

149°W | 148°52'30"W | 148°45'W

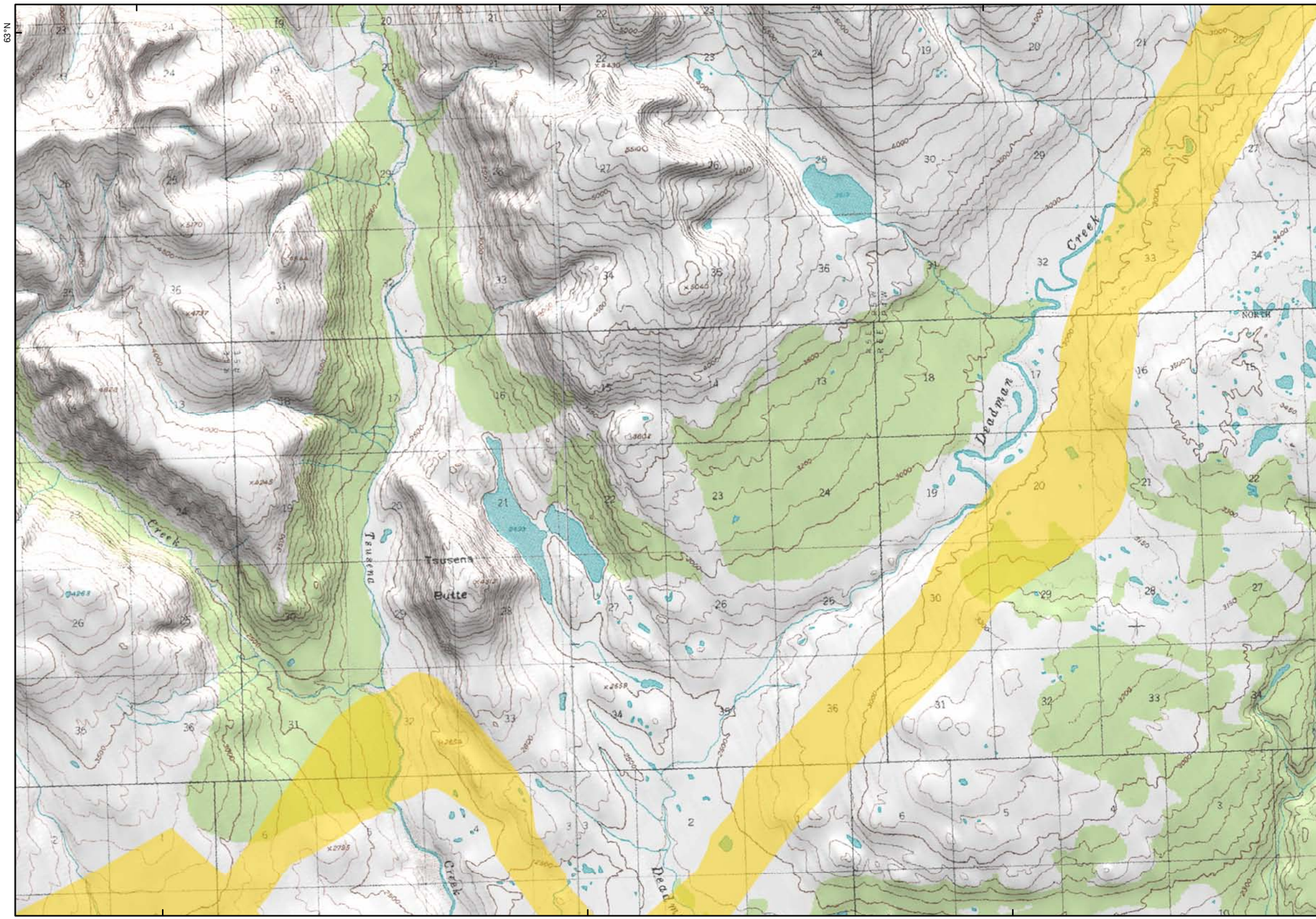
Map 24 SW | Map 25 S | Map 26 SE

Map 40 NW | Map 41 N | Map 42 NE

148°37'30"W | 148°30'W | 148°22'30"W

63°N

Map 33 W



Map 35 E

148°37'30"W | 148°30'W | 148°22'30"W

Map 25 SW | Map 26 S | Map 27 SE

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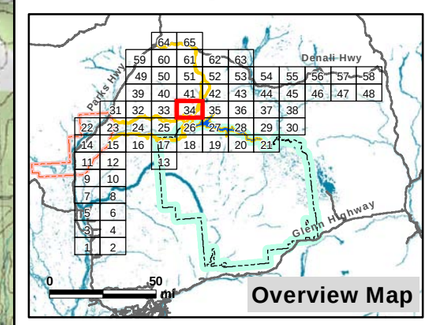
Map 34



0 1 2 mi

0 1 2 3 km

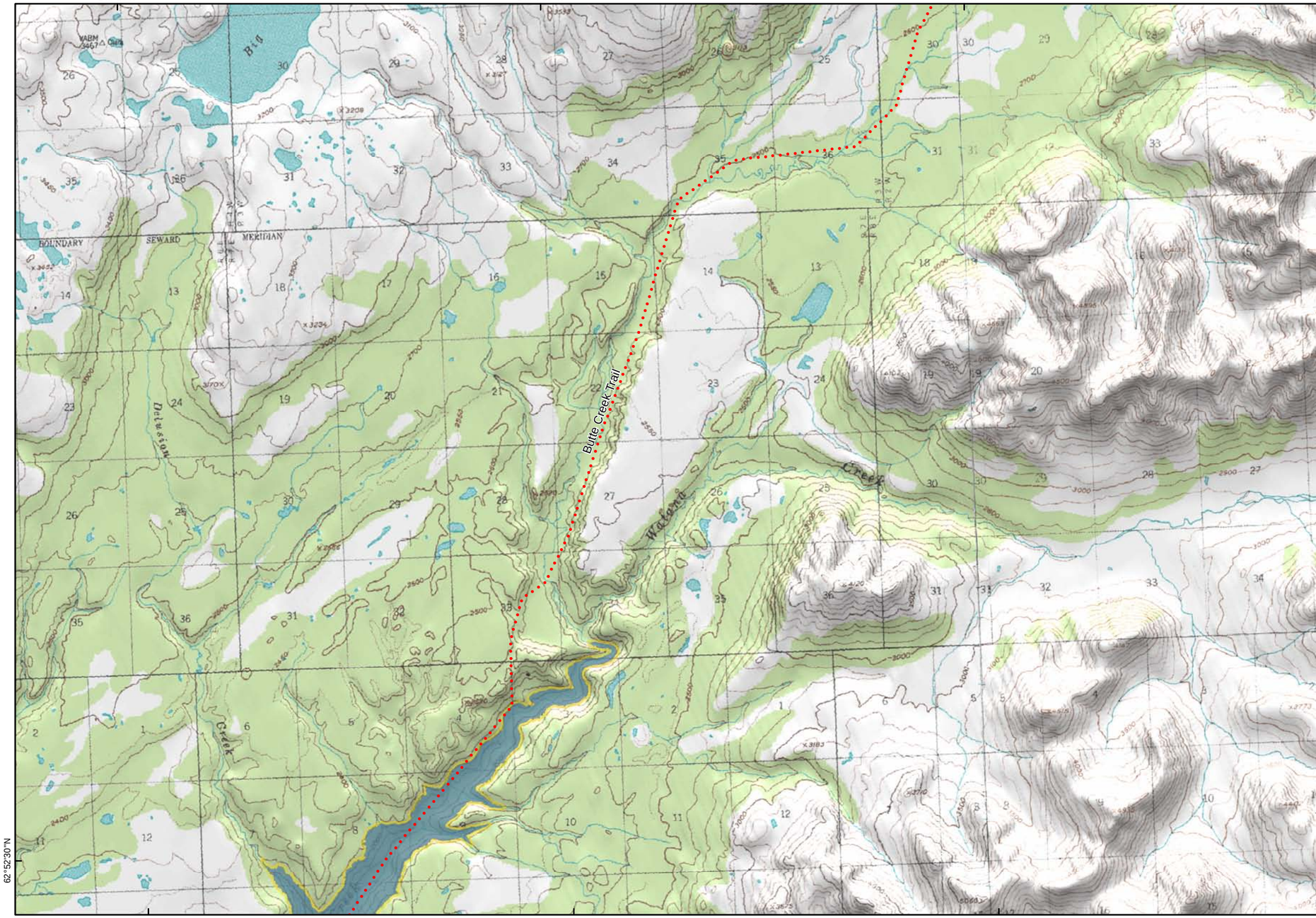
N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 41 NW | Map 42 N | Map 43 NE

148°15'W | 148°7'30"W | 148°W

Map 34 W



Map 36 E

62°52'30"N

148°15'W | 148°7'30"W | 148°W

Map 26 SW | Map 27 S | Map 28 SE

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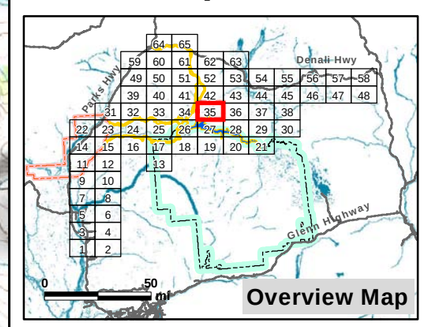
Map 35



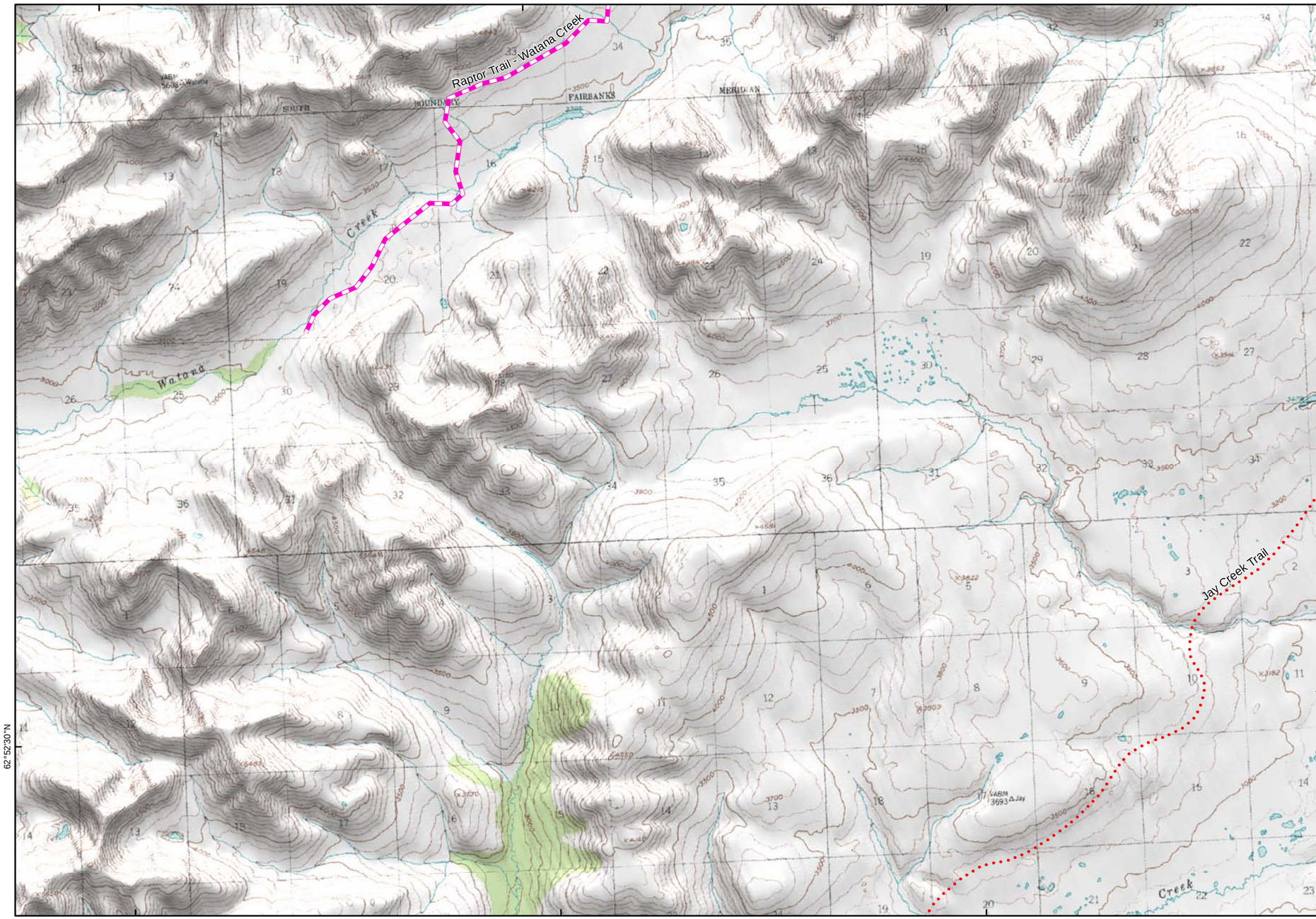
0 1 2 mi

0 1 2 3 km

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 42 NW | Map 43 N | Map 44 NE

147°52'30"W | 147°45'W | 147°37'30"W



Map 35 W

Map 37 E

62°52'30"N

147°52'30"W | 147°45'W | 147°37'30"W

Map 27 SW | Map 28 S | Map 29 SE

ALASKA ENERGY AUTHORITY

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Legend

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- Winter Trail
- Year Round Trail
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- CIRI 17b Trail Easments

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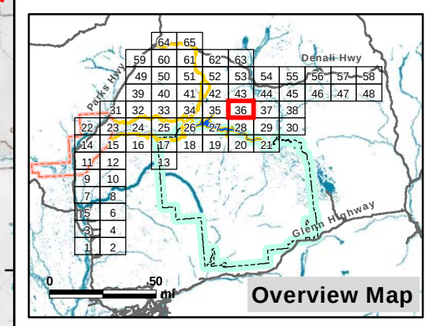
Map 36



0 1 2 mi

0 1 2 3 km

N

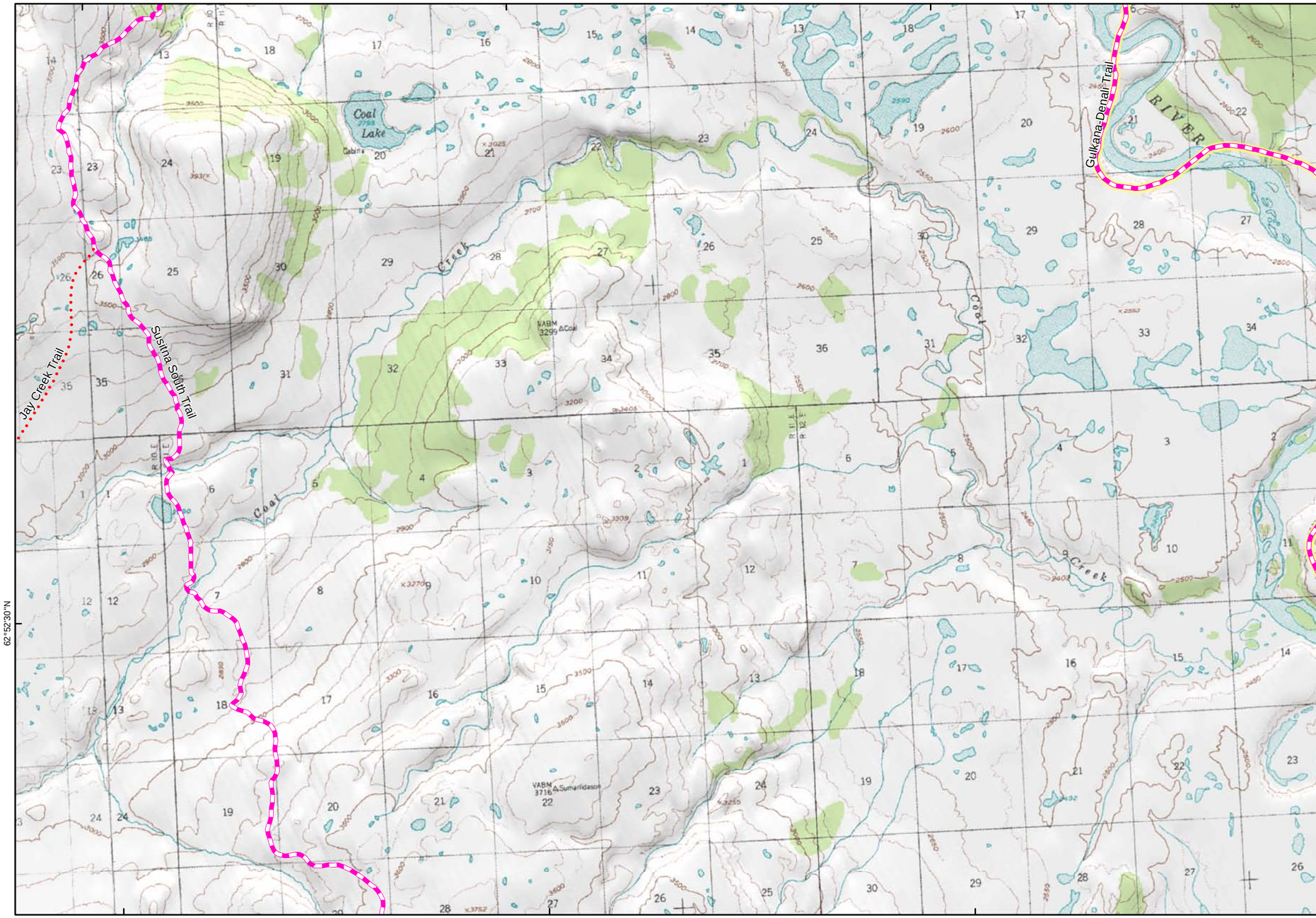
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 43 NW | Map 44 N | Map 45 NE

147°30'W | 147°22'30"W | 147°15'W

Map 36 W | Map 38 E

62°52'30"N



147°30'W | 147°22'30"W | 147°15'W

Map 28 SW | Map 29 S | Map 30 SE

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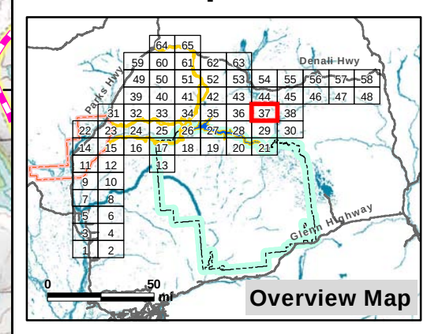
Map 37



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 44 NW | Map 45 N | Map 46 NE

147°7'30"W | 147°W | 146°52'30"W

Map 37 W

62°52'30"N

147°7'30"W | 147°W | 146°52'30"W

Map 29 SW | Map 30 S | Map N/A

Map N/A

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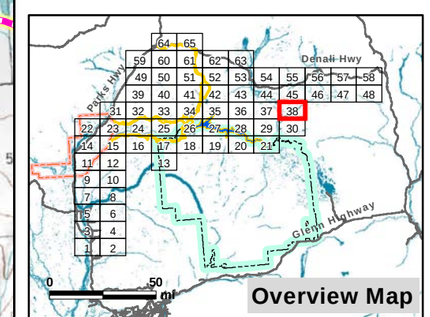
Map 38



0 1 2 mi

0 1 2 3 km

N

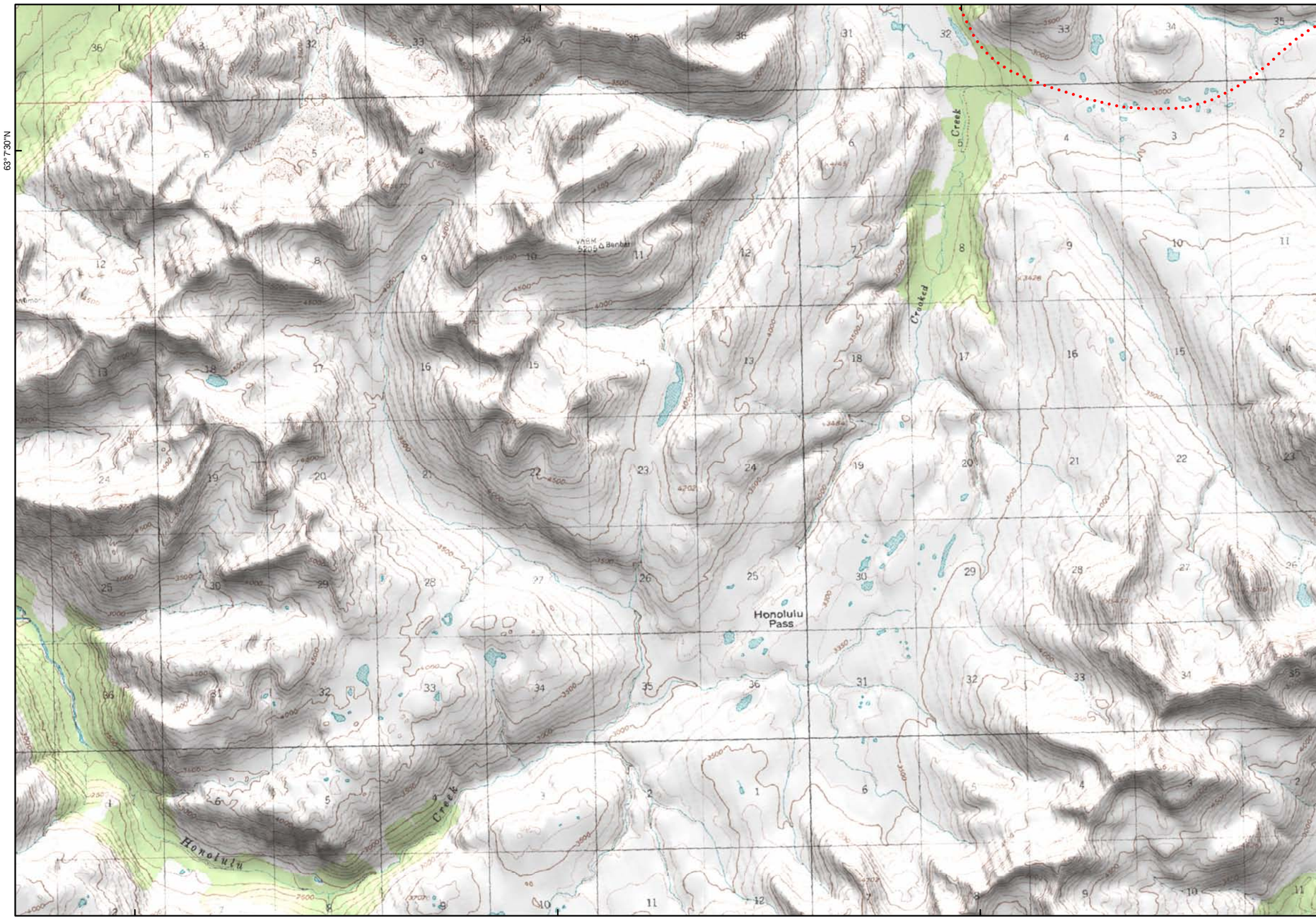
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A | Map 49 N | Map 50 NE

149°22'30"W | 149°15'W | 149°7'30"W

63°7'30"N

Map N/A



Map 40 E

149°22'30"W | 149°15'W | 149°7'30"W

Map 31 SW | Map 32 S | Map 33 SE

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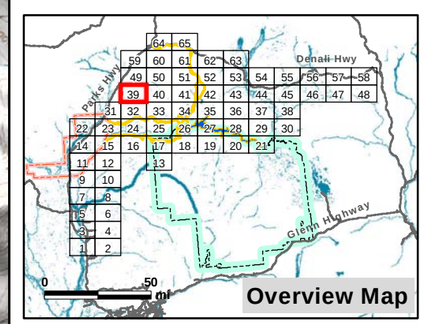
Map 39



0 1 2 mi

0 1 2 3 km

N

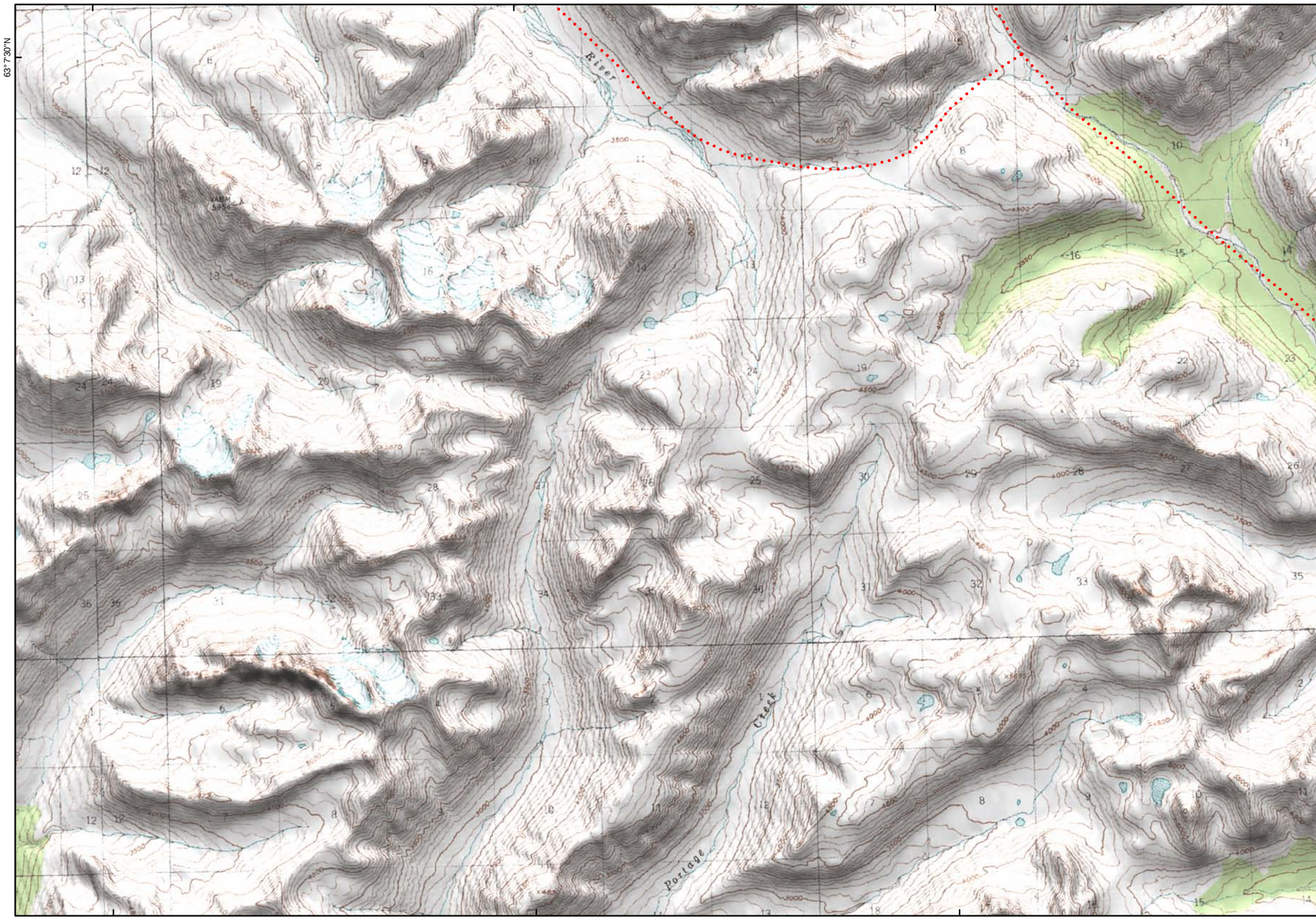
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 49 NW | Map 50 N | Map 51 NE

149°W | 148°52'30"W | 148°45'W

63°7'30"N

Map 39 W



Map 41 E

149°W | 148°52'30"W | 148°45'W

Map 32 SW | Map 33 S | Map 34 SE

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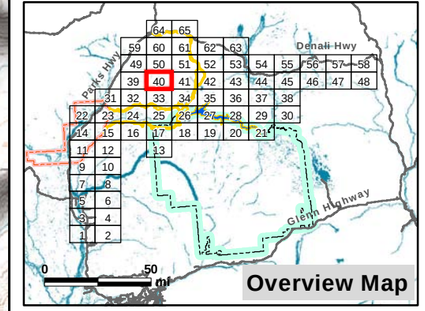
Map 40



0 1 2 mi

0 1 2 3 km

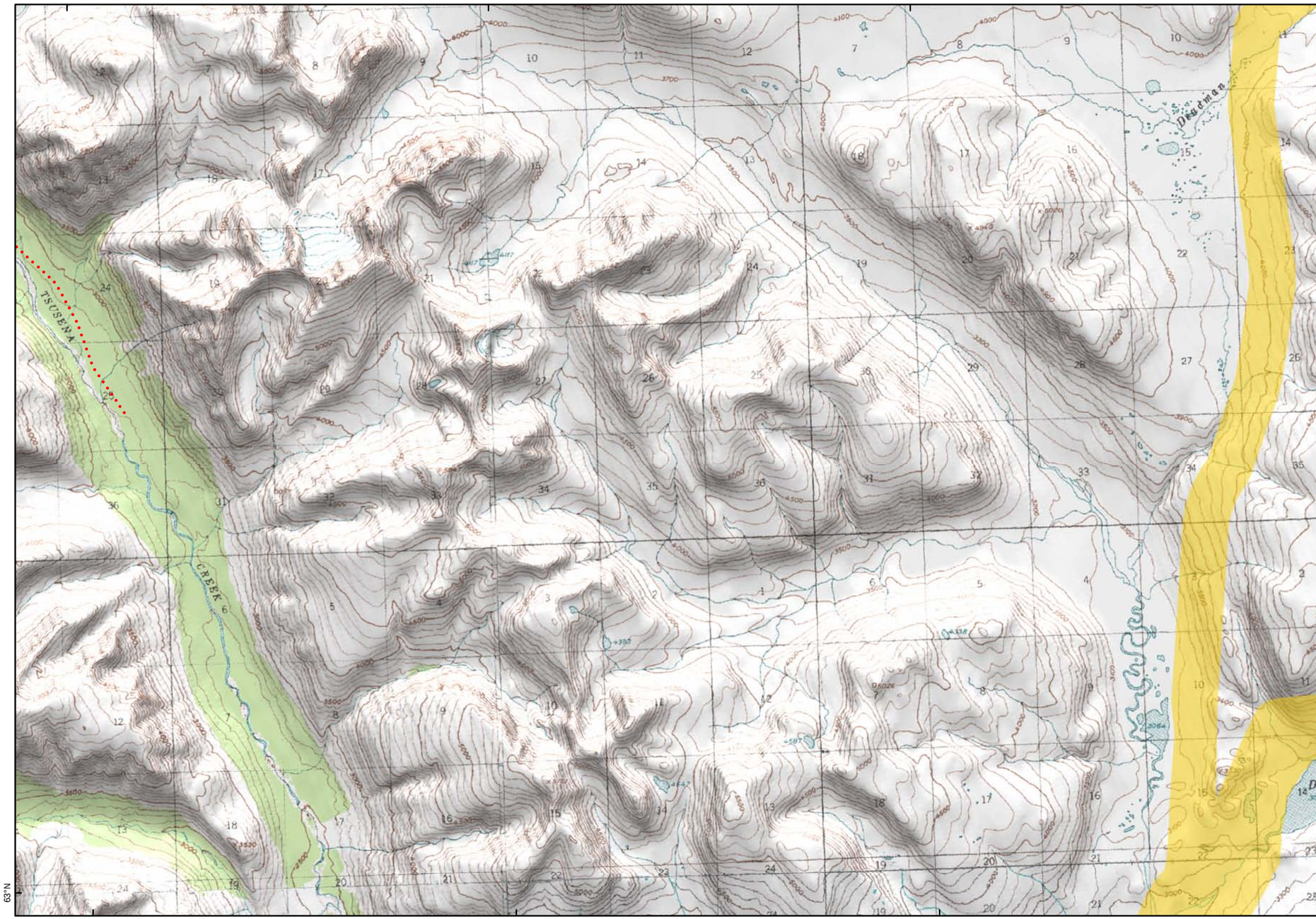
N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 50 NW | Map 51 N | Map 52 NE

148°37'30"W | 148°30'W | 148°22'30"W

Map 40 W



Map 42 E

63°N

148°37'30"W | 148°30'W | 148°22'30"W

Map 33 SW | Map 34 S | Map 35 SE

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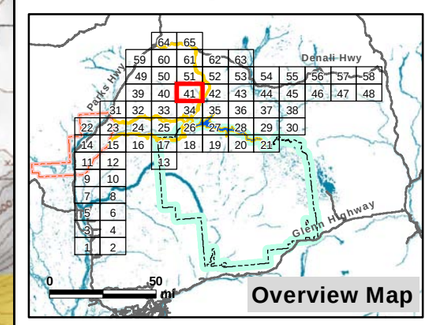
Map 41



0 1 2 mi

0 1 2 3 km

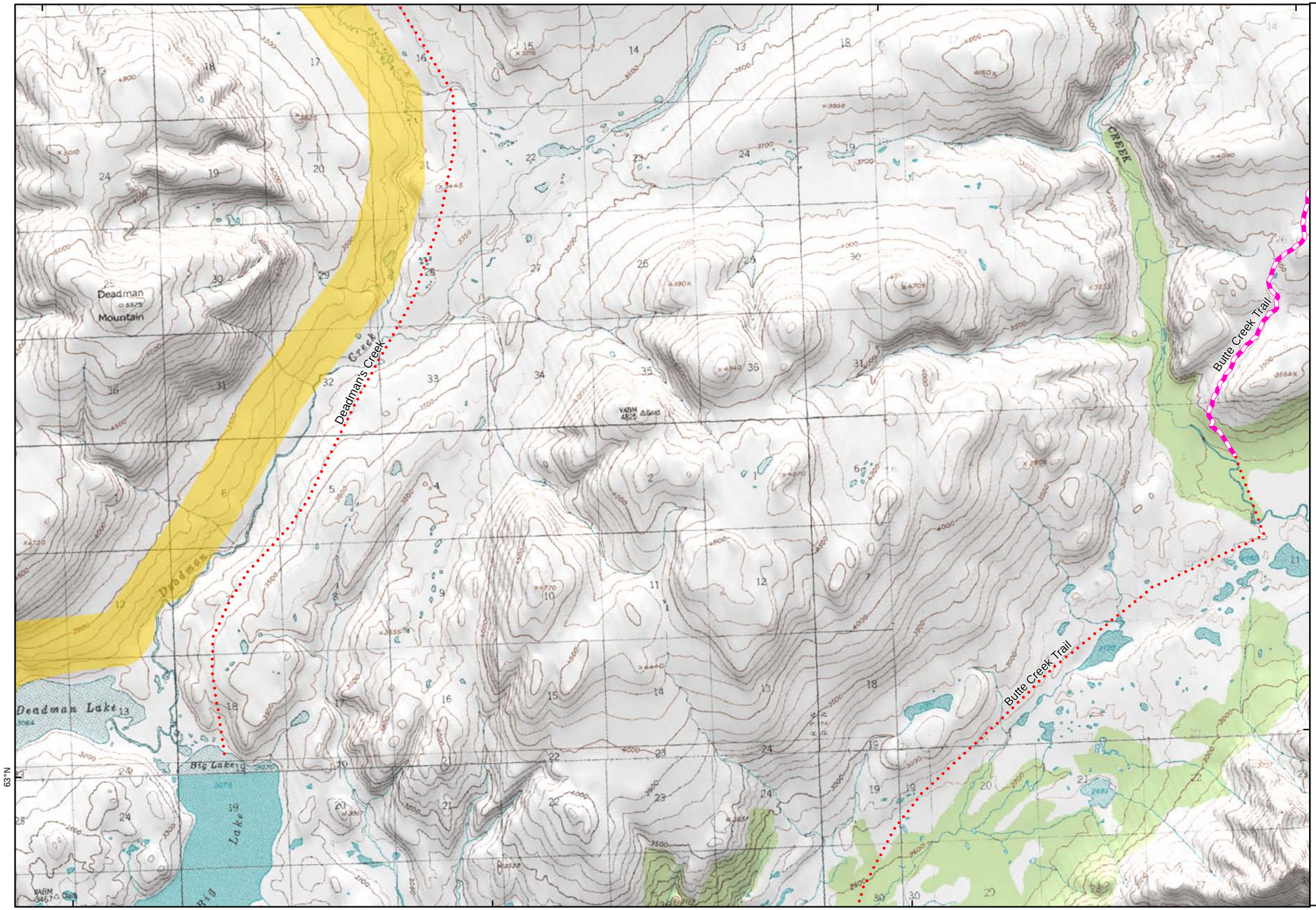
N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 51 NW | Map 52 N | Map 53 NE

148°15'W | 148°7'30"W | 148°W | 147°52'30"W

Map 41 W



63°N

148°15'W | 148°7'30"W | 148°W

Map 43 E

ALASKA ENERGY AUTHORITY

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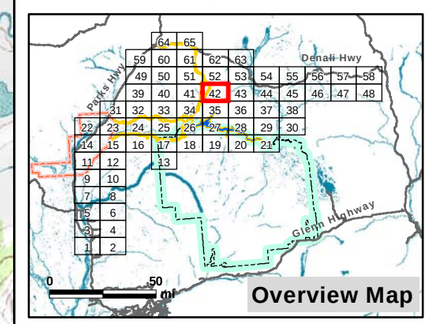
Map 42



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 34 SW | Map 35 S | Map 36 SE

Map 52 NW | Map 53 N | Map 54 NE

147°52'30"W | 147°45'W | 147°37'30"W | 147°30'W

Map 42 W

63°N

Map 44 E

147°52'30"W | 147°45'W | 147°37'30"W

Map 35 SW | Map 36 S | Map 37 SE

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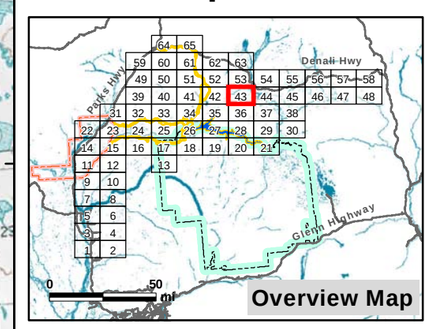
Map 43



0 1 2 mi

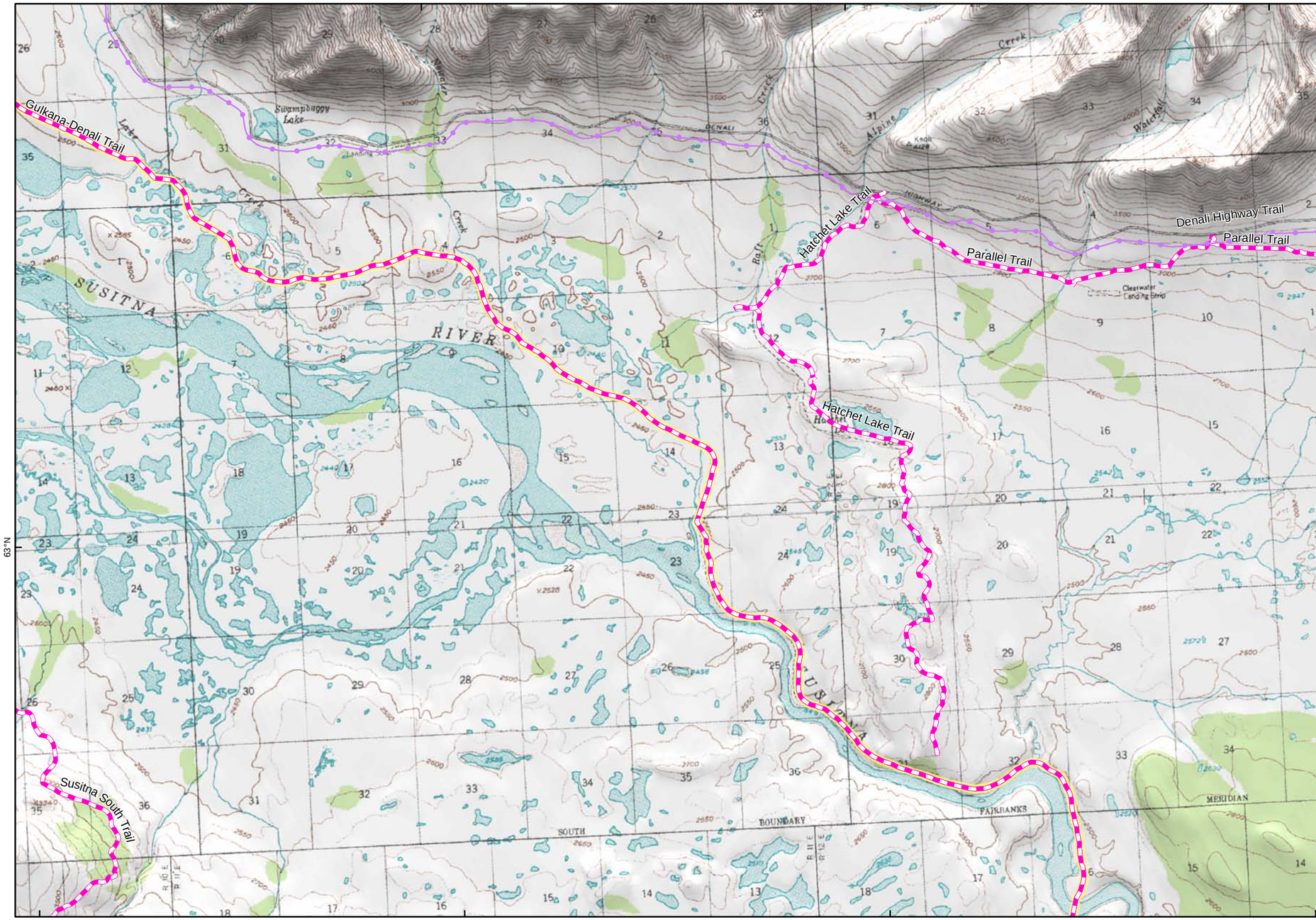
0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 53 NW | Map 54 N | Map 55 NE

147°22'30"W | 147°15'W | 147°7'30"W



Map 43 W

63°N

Map 45 E

147°30'W | 147°22'30"W | 147°15'W | 147°7'30"W

Map 36 SW | Map 37 S | Map 38 SE

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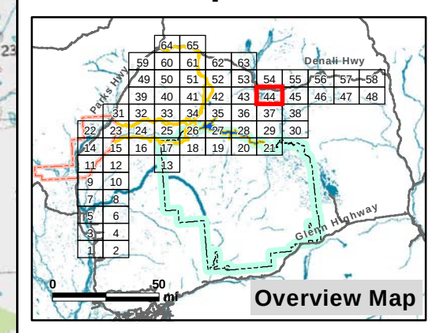
Map 44



0 1 2 mi

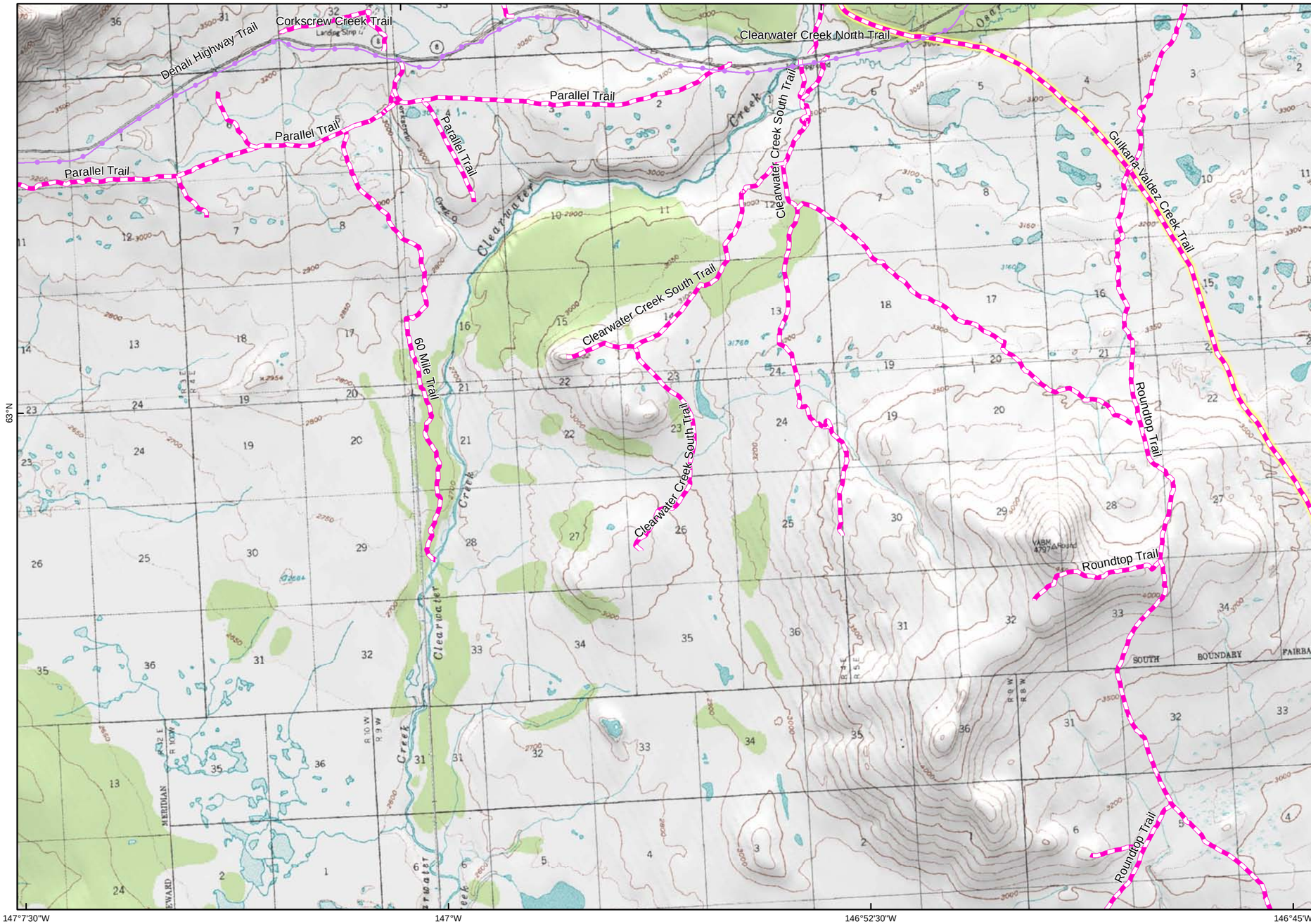
0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 54 NW | Map 55 N | Map 56 NE

147°W | 146°52'30"W | 146°45'W



Map 44 W | Map 46 E

N 63°

147°7'30"W | 147°W | 146°52'30"W | 146°45'W

Map 37 SW | Map 38 S | Map N/A

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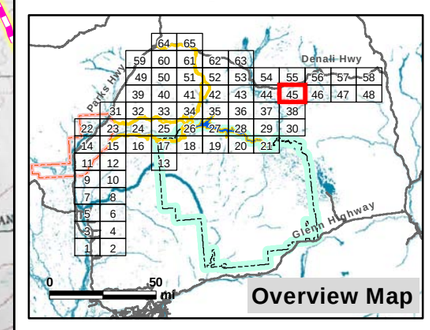
Map 45



0 1 2 mi

0 1 2 3 km

N

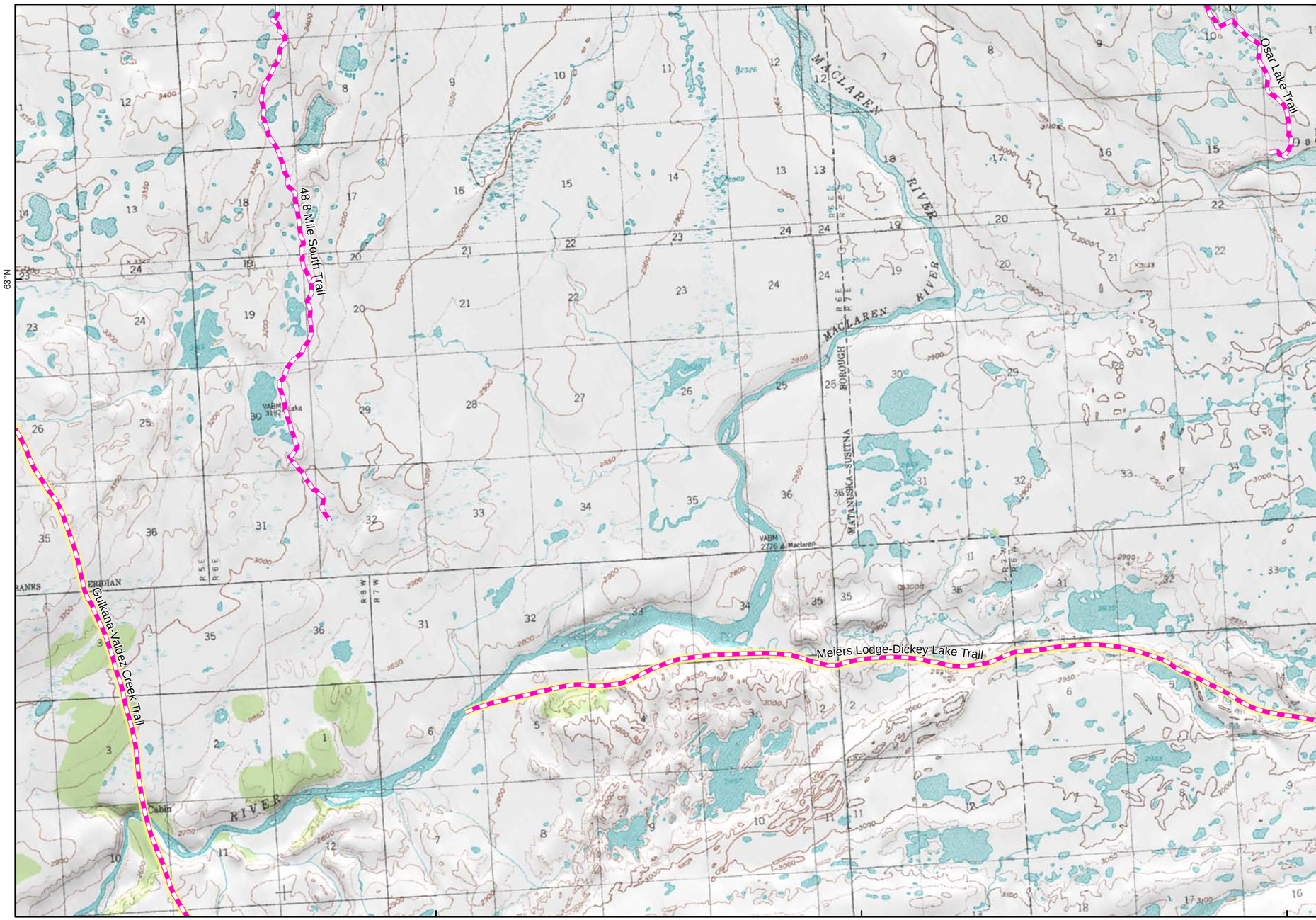
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 55 NW | Map 56 N | Map 57 NE

146°37'30"W | 146°30'W | 146°22'30"W

N 63

Map 45 W



Map 47 E

146°37'30"W | 146°30'W | 146°22'30"W

Map 38 SW | Map N/A | Map N/A

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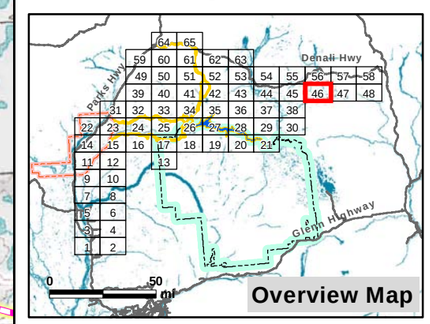
Map 46



0 1 2 mi

0 1 2 3 km

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

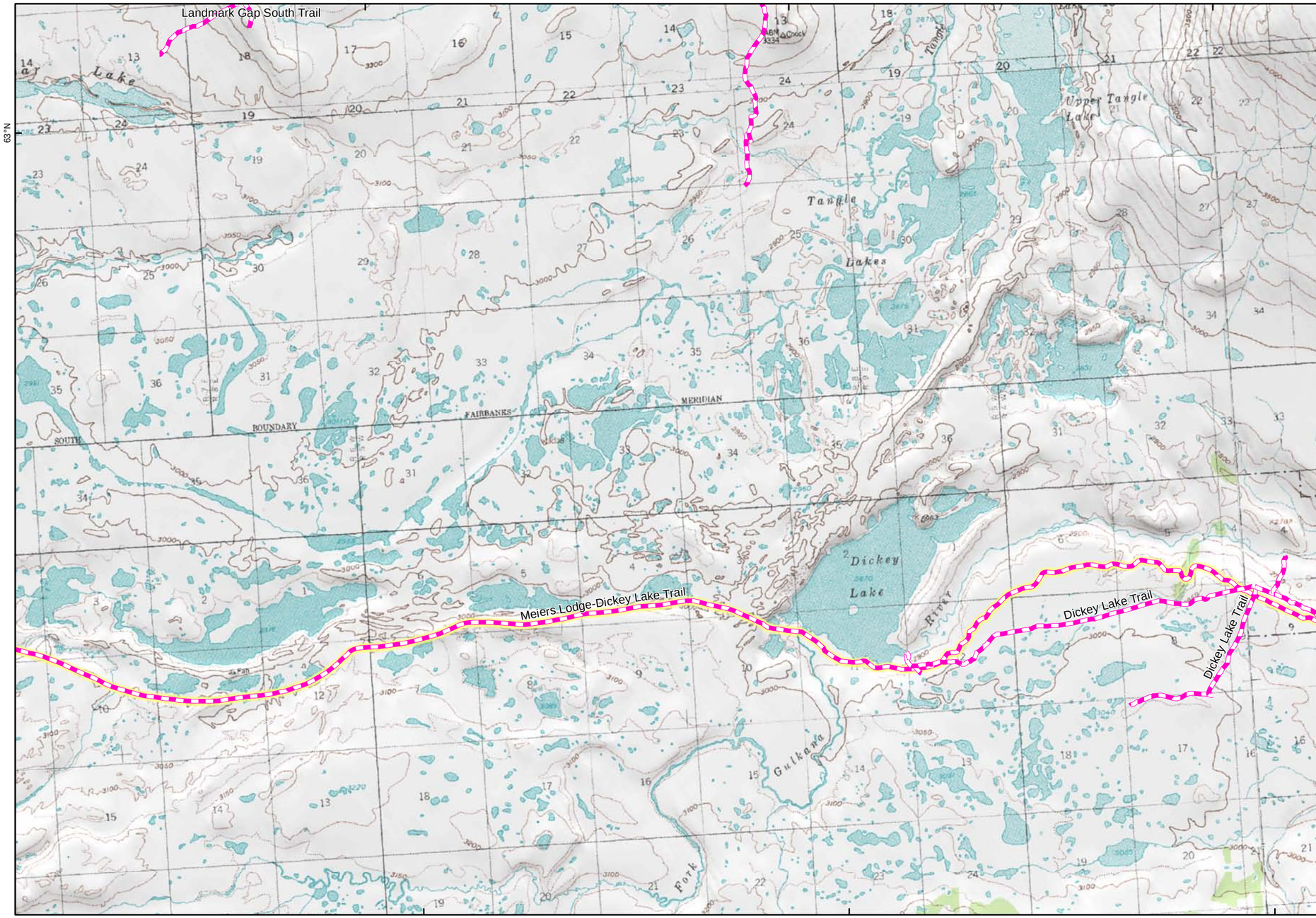
Map 56 NW | Map 57 N | Map 58 NE

146°15'W | 146°7'30"W | 146°W

63°N

Map 46 W

Map 48 E



146°15'W | 146°7'30"W | 146°W

Map N/A | Map N/A | Map N/A

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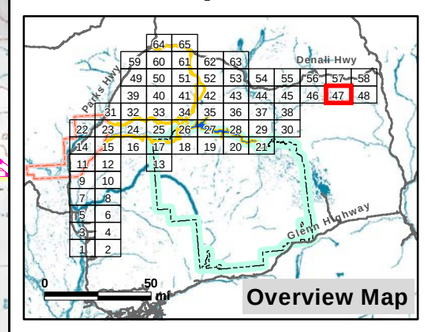
Map 47



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 57 NW

Map 58 N

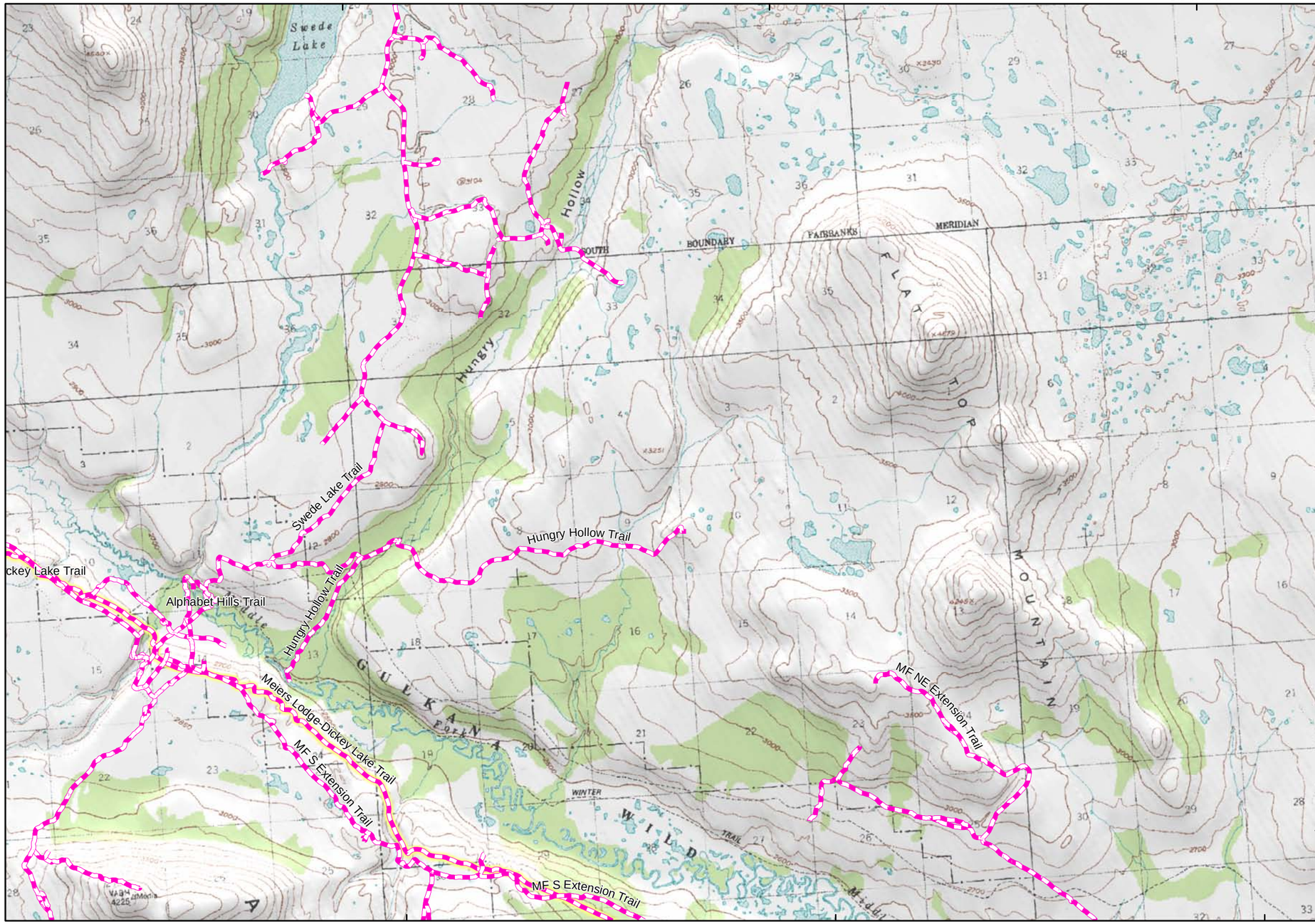
Map N/A

145°52'30"W

145°45'W

145°37'30"W

Map 47 W



Map N/A

145°52'30"W

145°45'W

145°37'30"W

Map N/A

Map N/A

Map N/A

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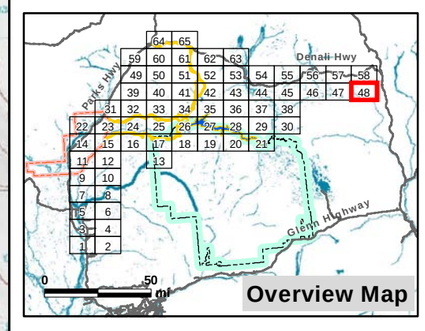
Map 48



0 1 2 mi

0 1 2 3 km

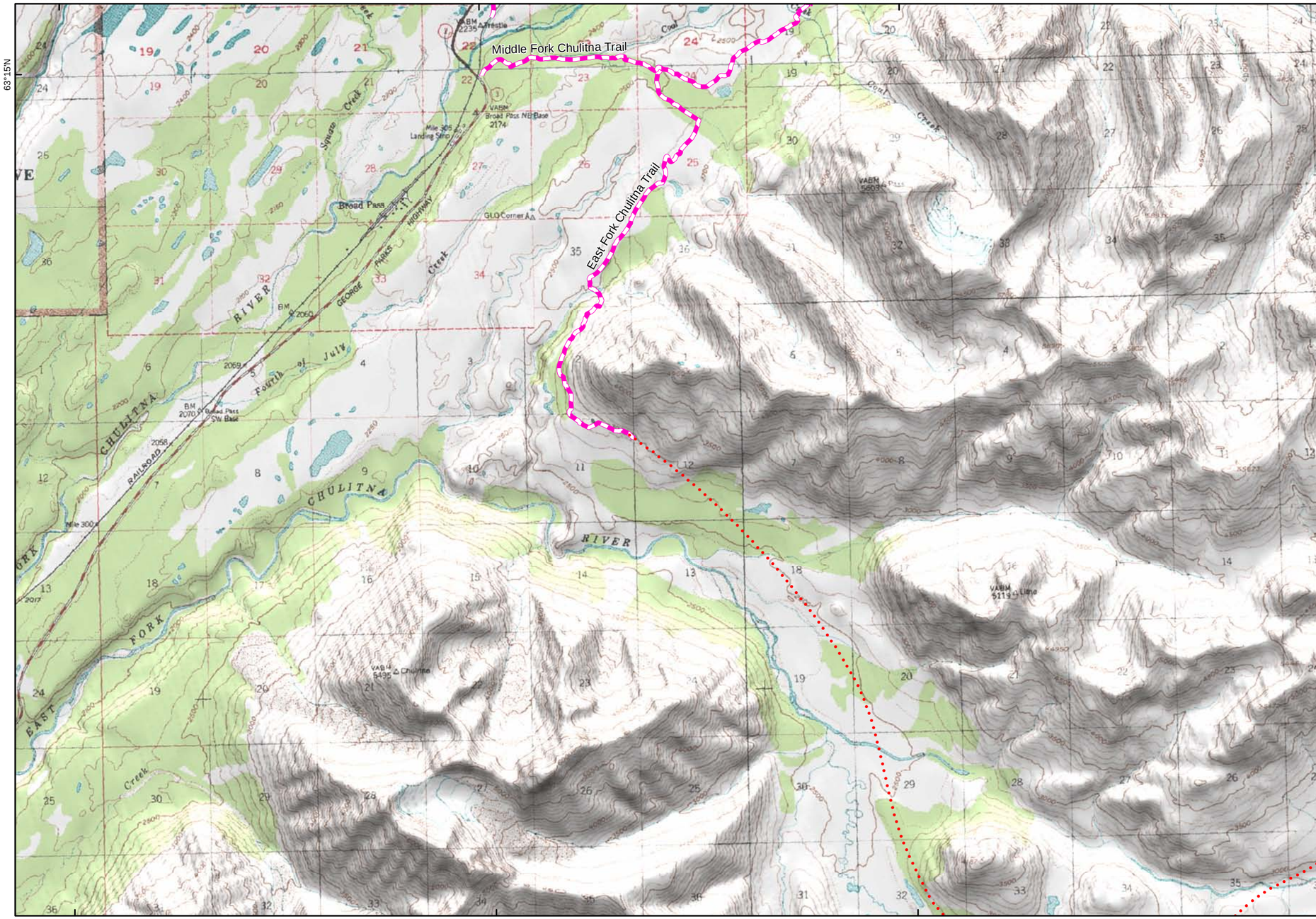
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A | Map 59 N | Map 60 NE

149°22'30"W | 149°15'W | 149°7'30"W | 149°W

63°15'N

Map N/A



149°22'30"W | 149°15'W | 149°7'30"W

Map N/A | Map 39 S | Map 40 SE

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Map 50 E

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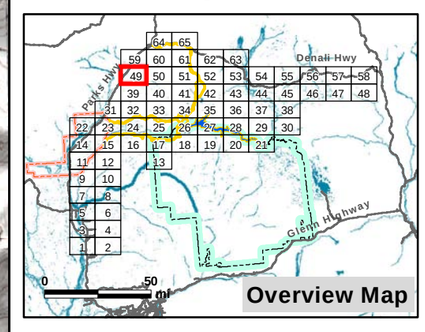
Map 49



0 1 2 mi

0 1 2 3 km

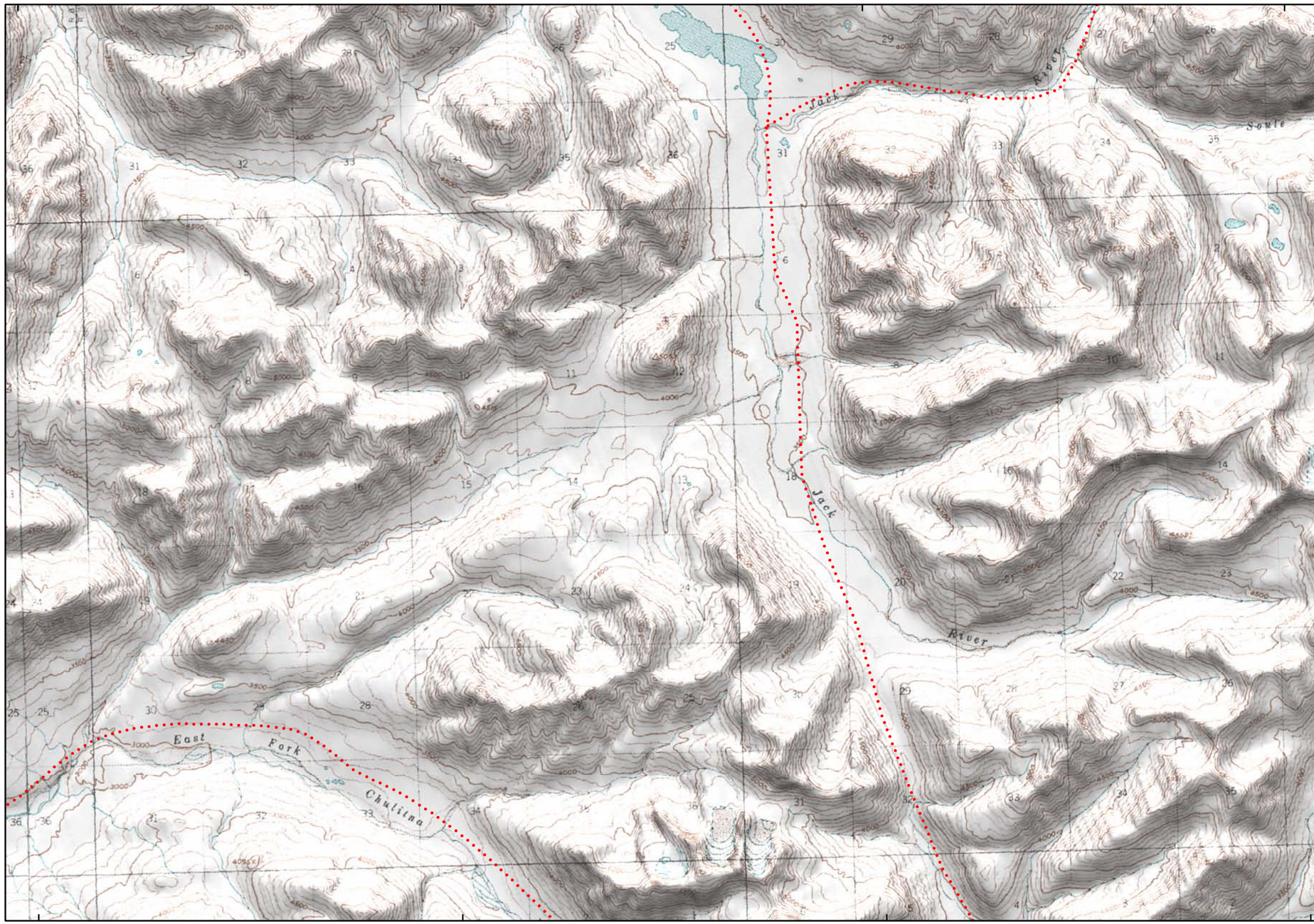
N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 59 NW | Map 60 N | Map 61 NE

149°W | 148°52'30"W | 148°45'W | 148°37'30"W

Map 49 W



Map 51 E

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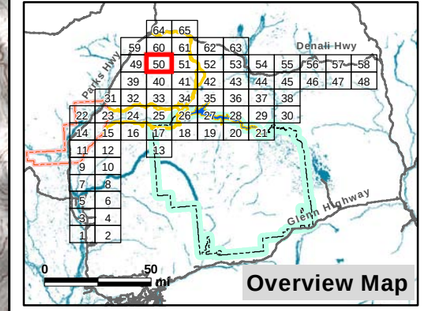
- CIRI 17b Trail Easments

Send additional trail data and revisions to tim.kramer@urs.com

Map 50



0 1 2 mi

0 1 2 3 km

N

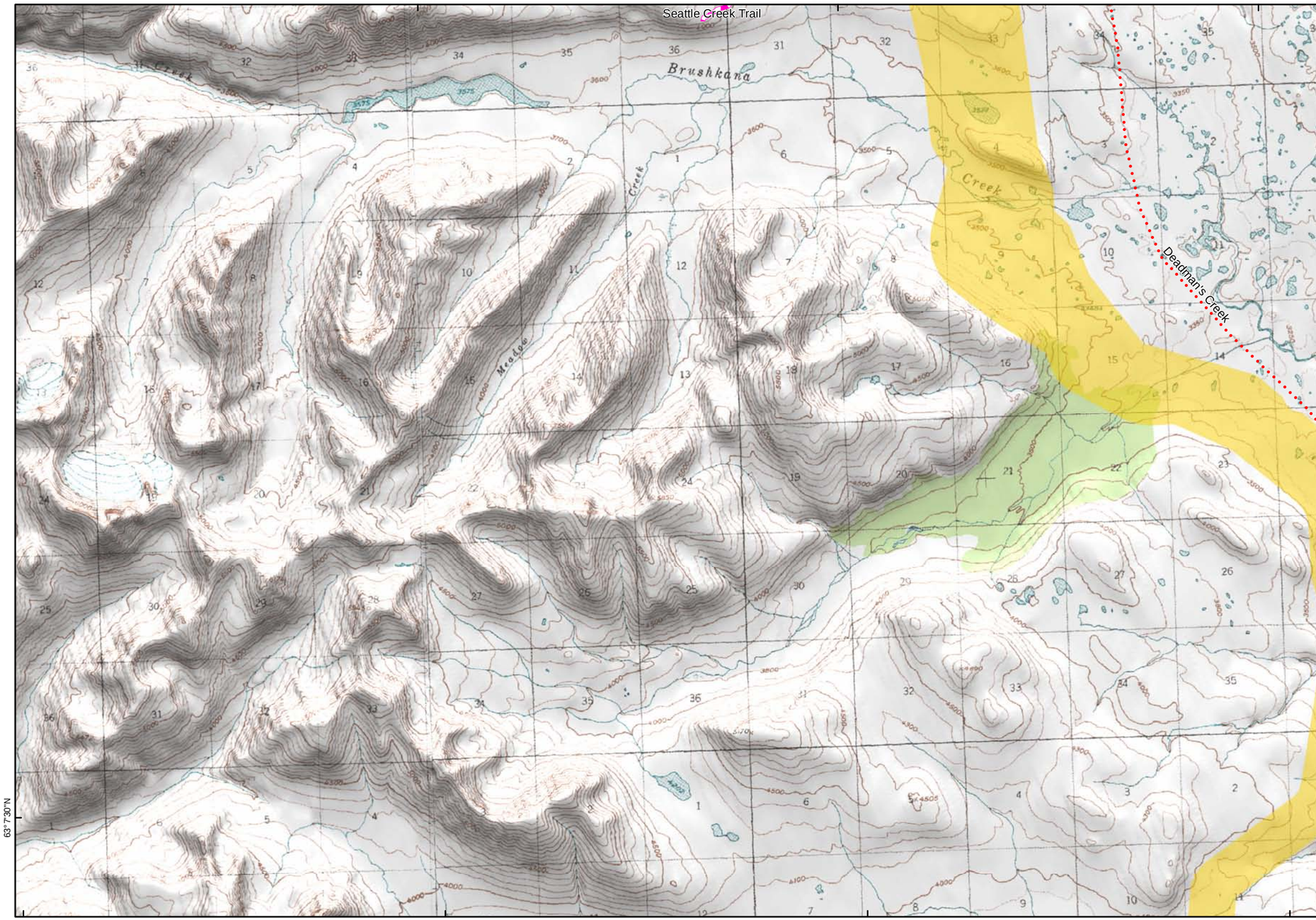
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

149°W | 148°52'30"W | 148°45'W | 148°37'30"W

Map 39 SW | Map 40 S | Map 41 SE

Map 60 NW | Map 61 N | Map 62 NE

148°30'W | 148°22'30"W | 148°15'W



Map 50 W

Map 52 E

63°7'30"N

148°37'30"W | 148°30'W | 148°22'30"W | 148°15'W

Map 40 SW | Map 41 S | Map 42 SE

ALASKA ENERGY AUTHORITY

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Trail Map Book

Legend

- Proposed Watana Dam Site
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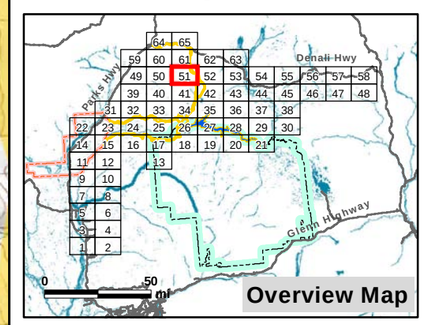
Map 51



0 1 2 mi

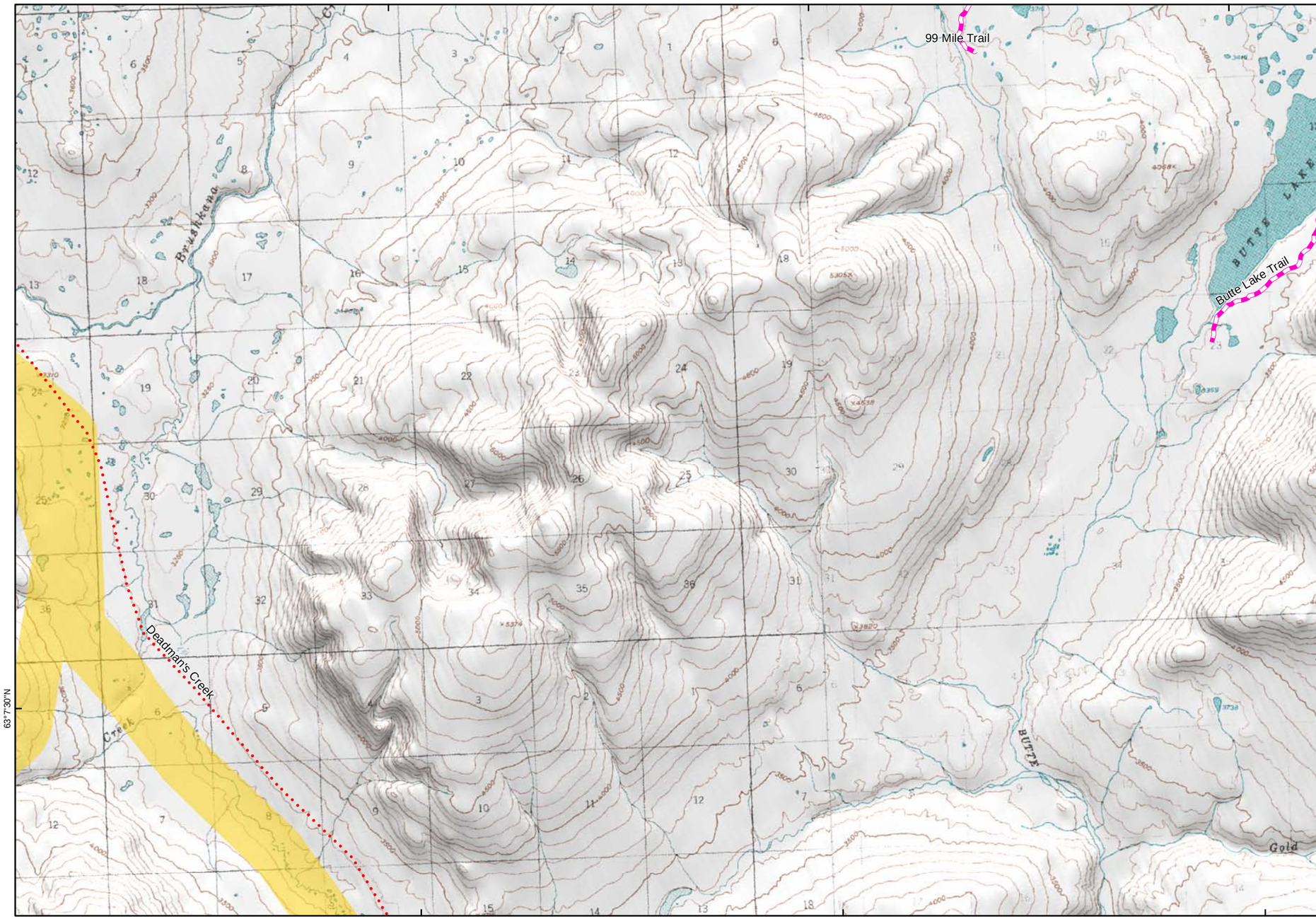
0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 61 NW | Map 62 N | Map 63 NE

148°7'30"W | 148°W | 147°52'30"W



Map 51 W | Map 53 E

63°7'30"N

Map 41 SW | Map 42 S | Map 43 SE

ALASKA ENERGY AUTHORITY

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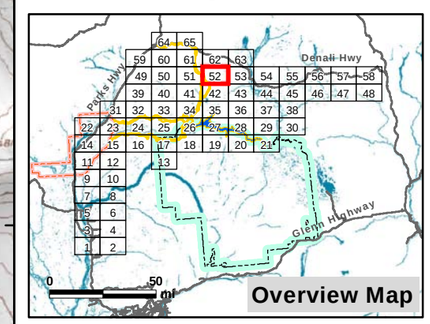
Map 52



0 1 2 mi

0 1 2 3 km

N

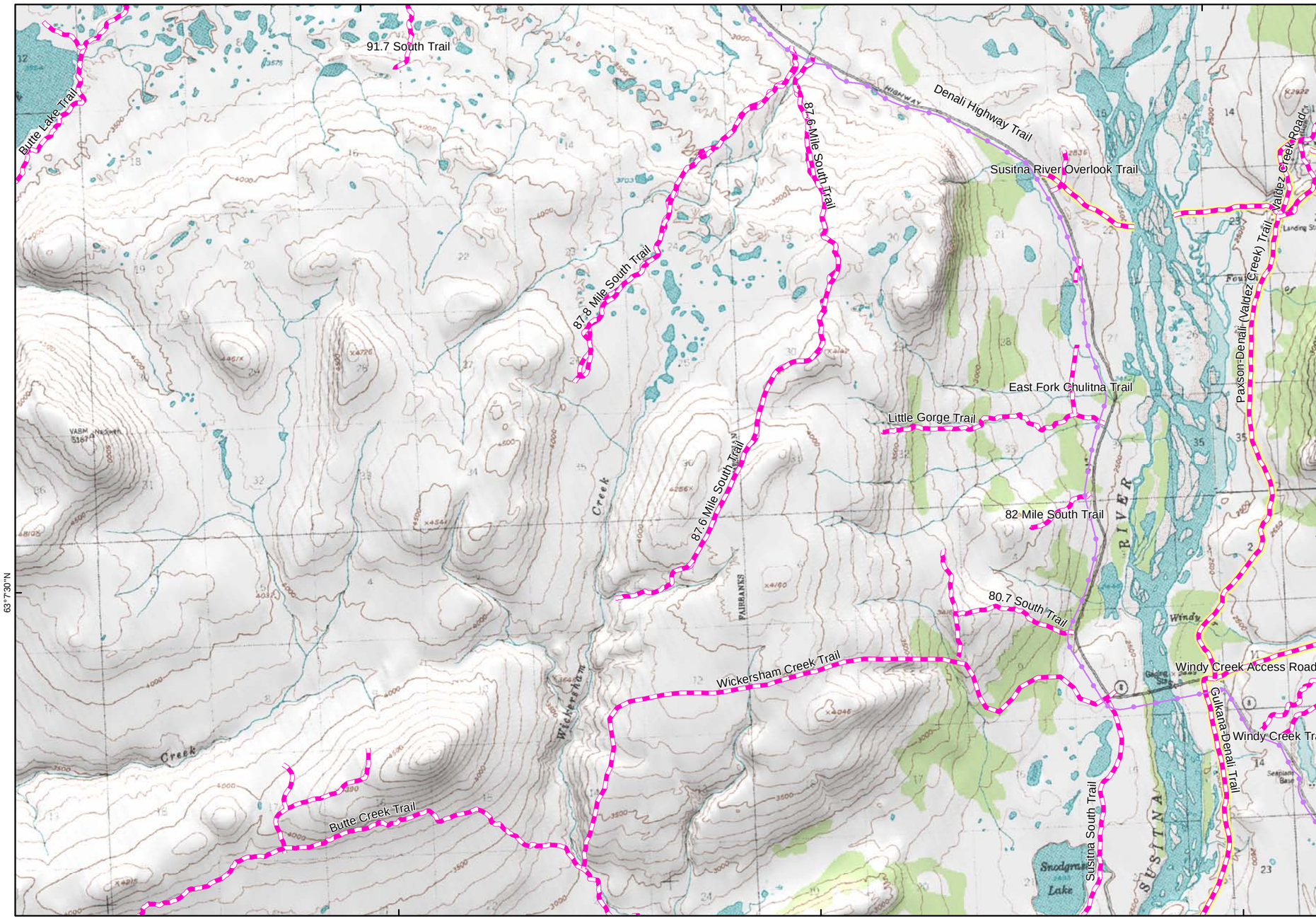
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 62 NW | Map 63 N | Map N/A

147°45'W | 147°37'30"W | 147°30'W

Map 52 W | Map 54 E

63°7'30"N



Map 42 SW | Map 43 S | Map 44 SE

ALASKA ENERGY AUTHORITY

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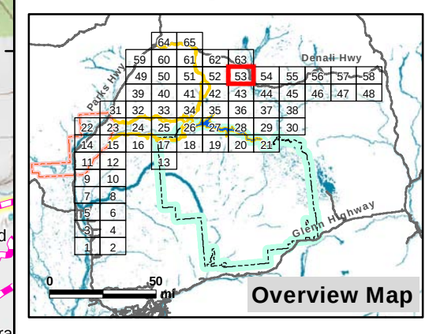
Map 53



0 1 2 mi

0 1 2 3 km

N

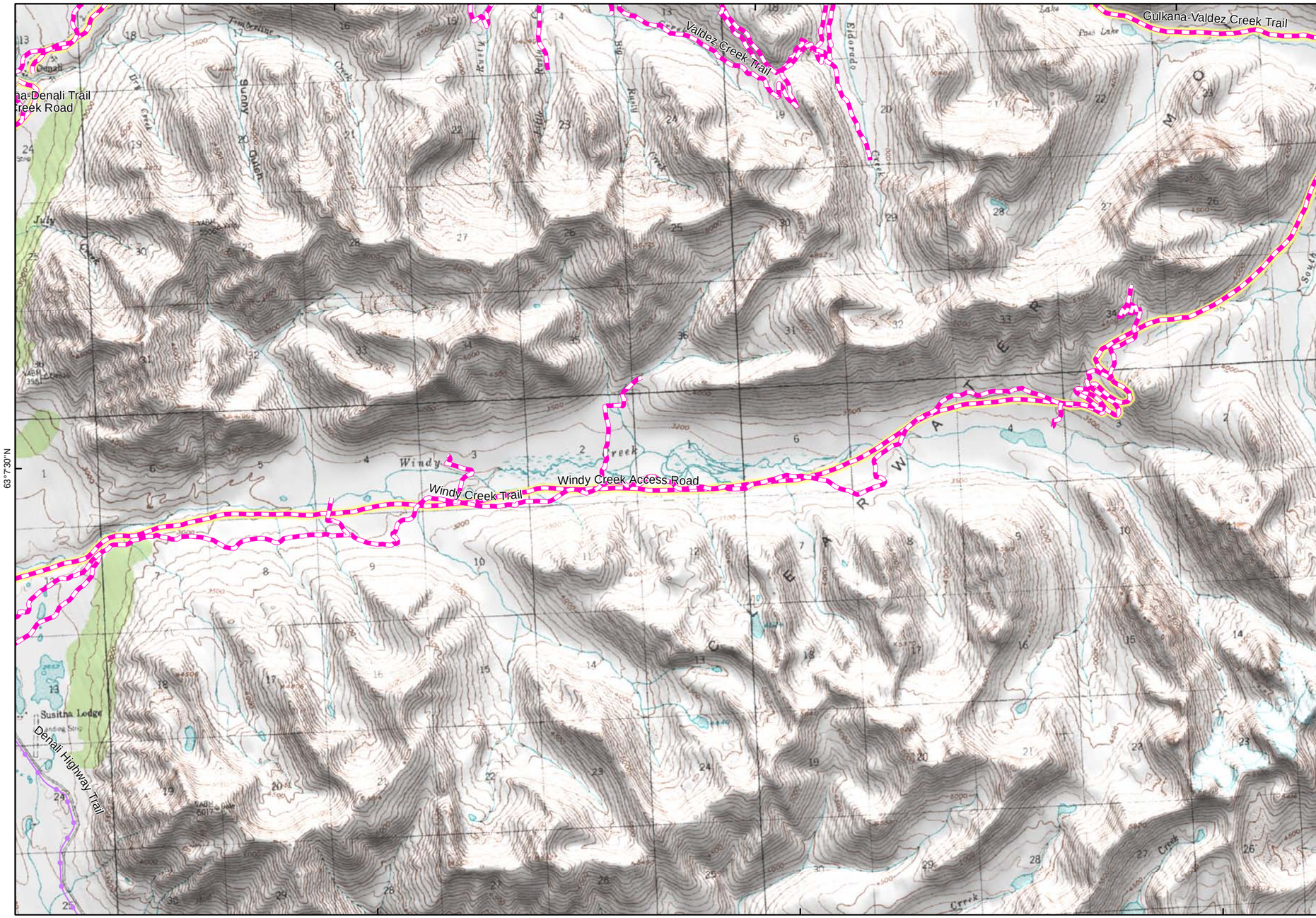
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 63 NW | Map N/A | Map N/A

147°22'30"W | 147°15'W | 147°7'30"W

Map 53 W

63°7'30"N



Map 55 E

147°22'30"W | 147°15'W | 147°7'30"W

Map 43 SW | Map 44 S | Map 45 SE

ALASKA ENERGY AUTHORITY

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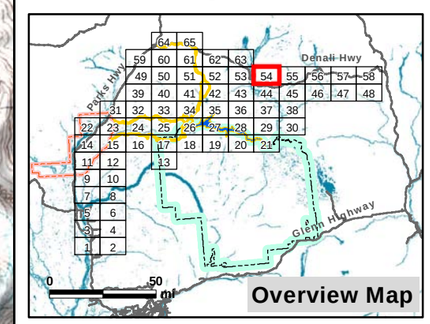
Map 54



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A

Map N/A

Map N/A

147°W

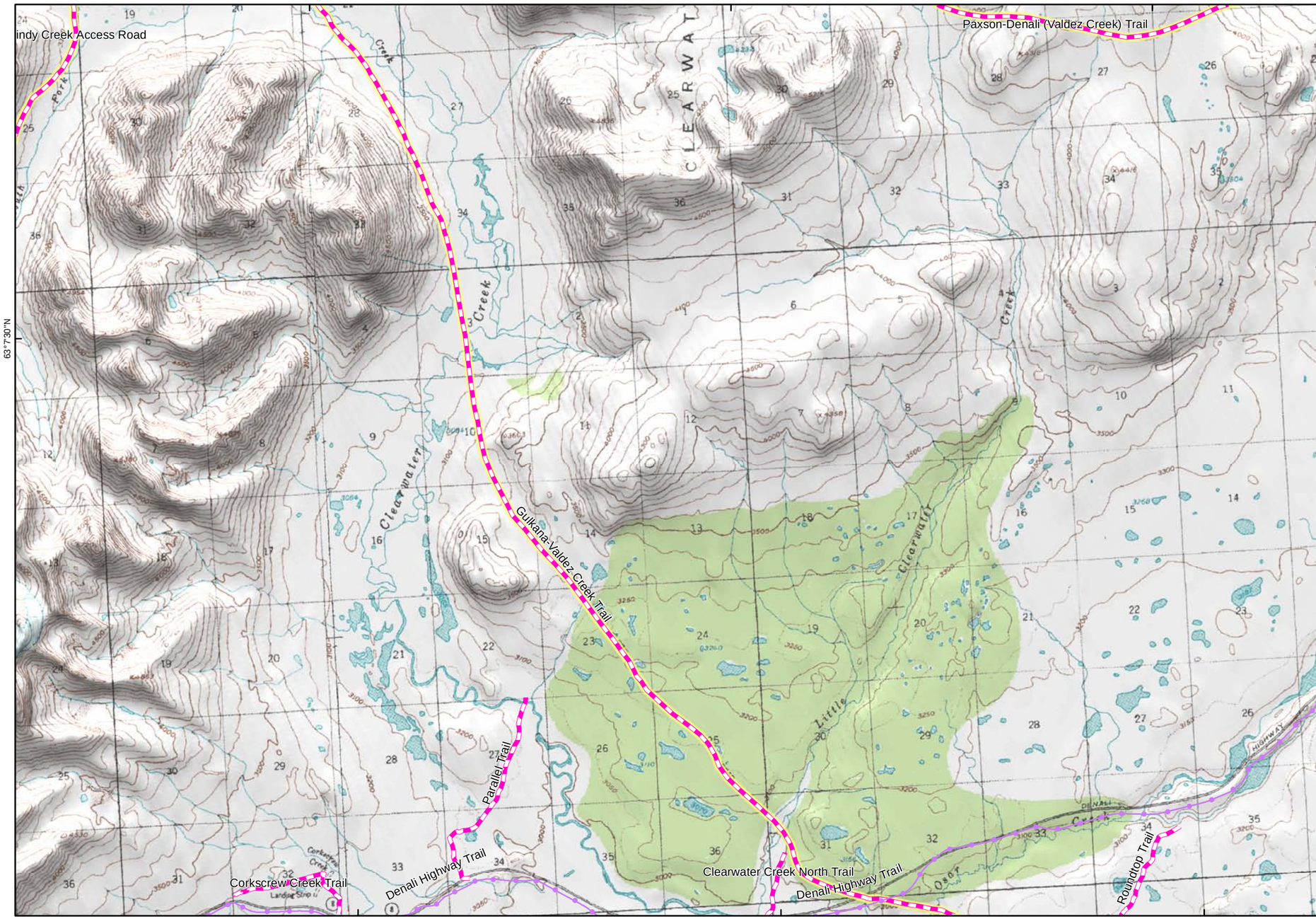
146°52'30"W

146°45'W

63°7'30"N

Map 54 W

Map 56 E



Map 44 SW

Map 45 S

Map 46 SE

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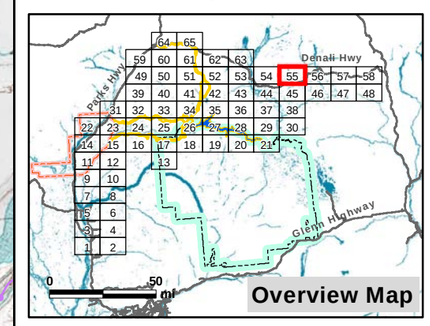
Map 55



0 1 2 mi

0 1 2 3 km

N

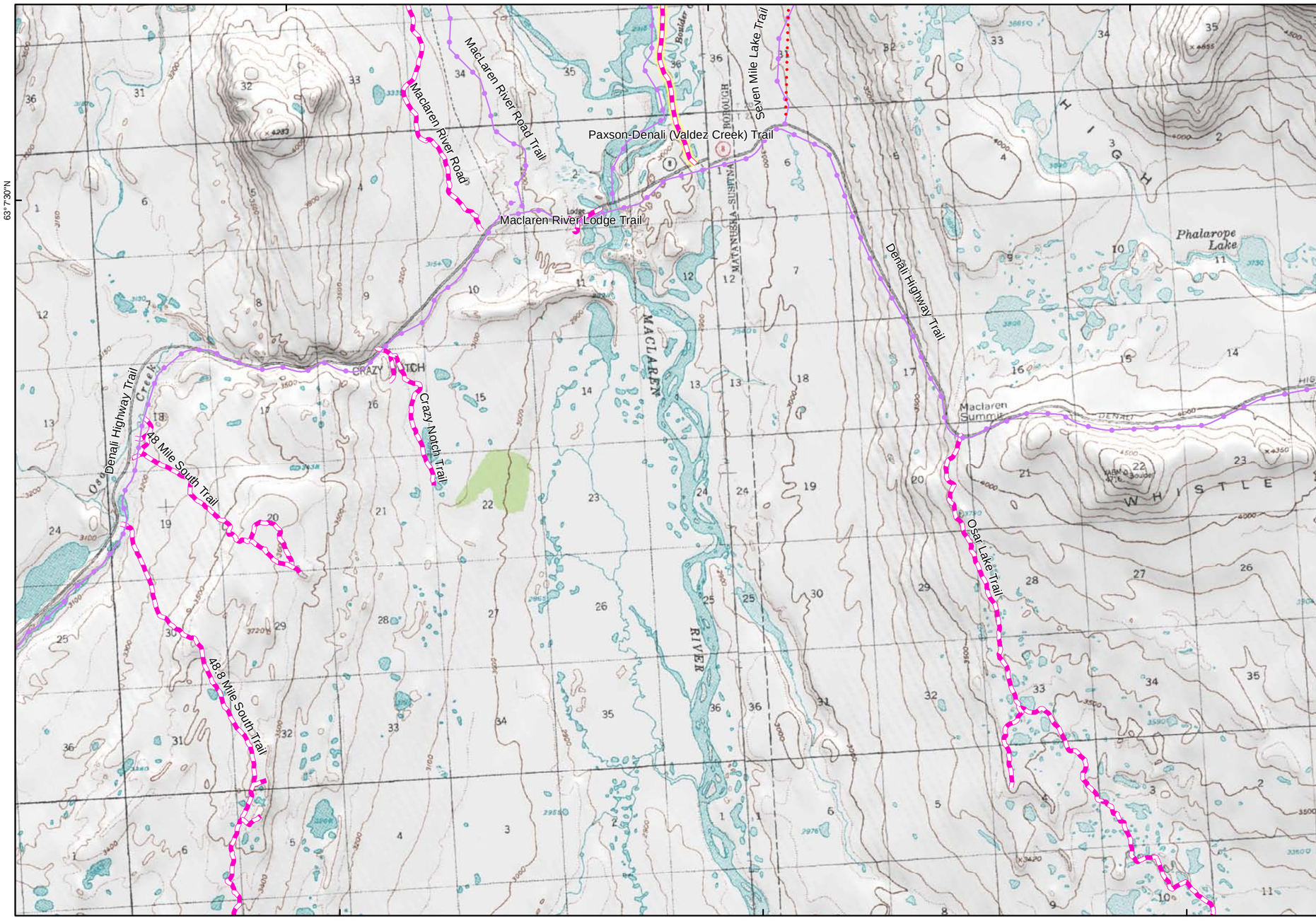
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A | Map N/A | Map N/A

146°37'30"W | 146°30'W | 146°22'30"W

63°7'30"N

Map 55 W



Map 57 E

146°37'30"W | 146°30'W | 146°22'30"W

Map 45 SW | Map 46 S | Map 47 SE

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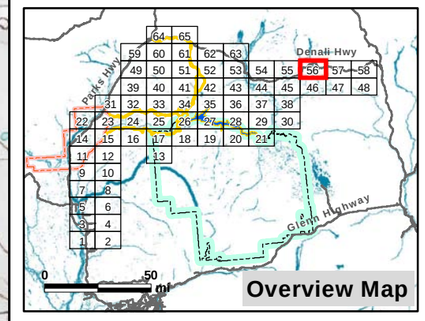
Map 56



0 1 2 mi

0 1 2 3 km

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A

Map N/A

Map N/A

146°15'W

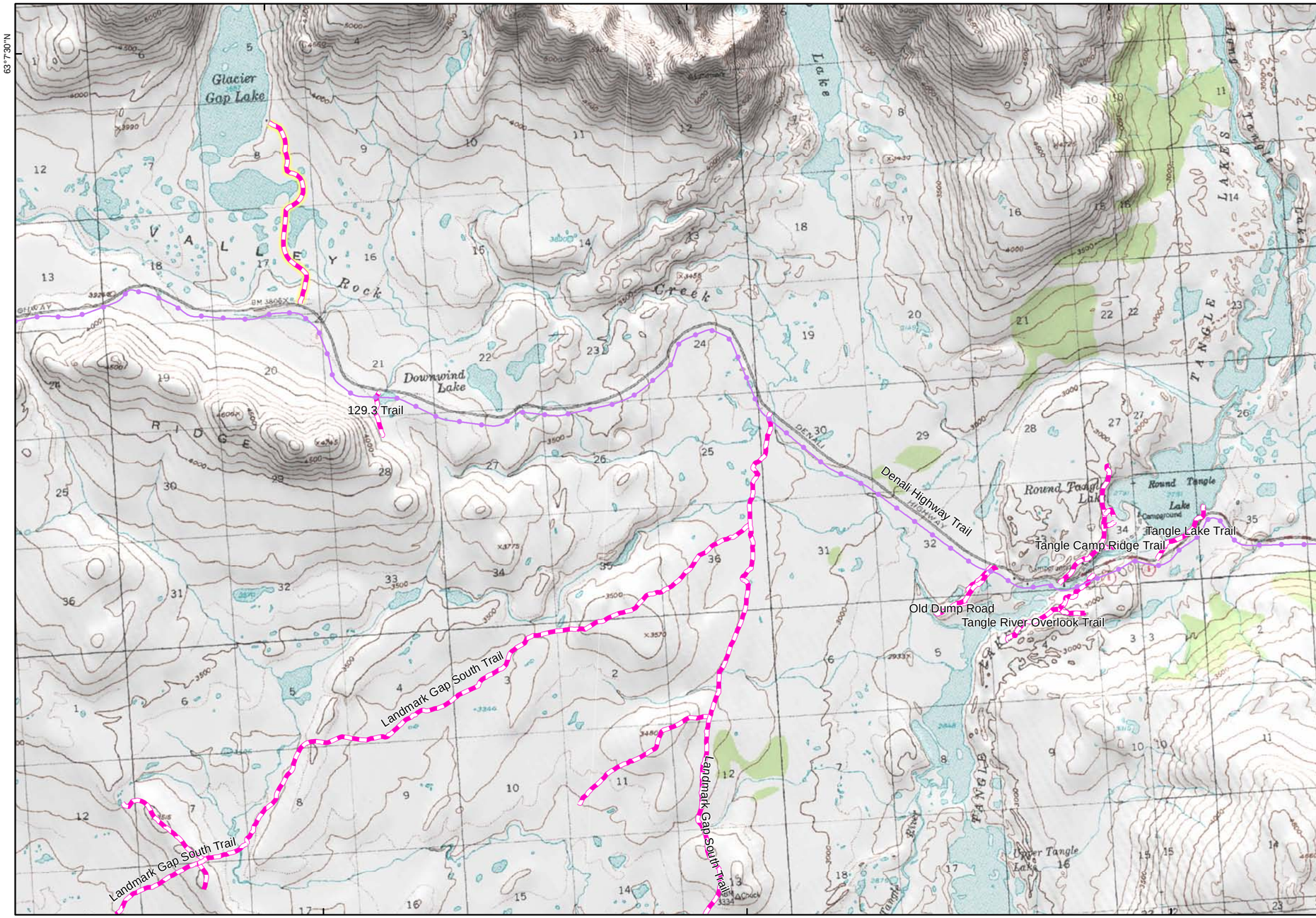
146°7'30"W

146°W

63°7'30"N

Map 56 W

Map 58 E



146°15'W

146°7'30"W

146°W

Map 46 SW

Map 47 S

Map 48 SE

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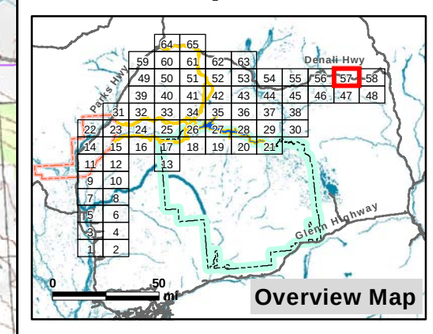
Map 57



0 1 2 mi

0 1 2 3 km

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A

Map N/A

Map N/A

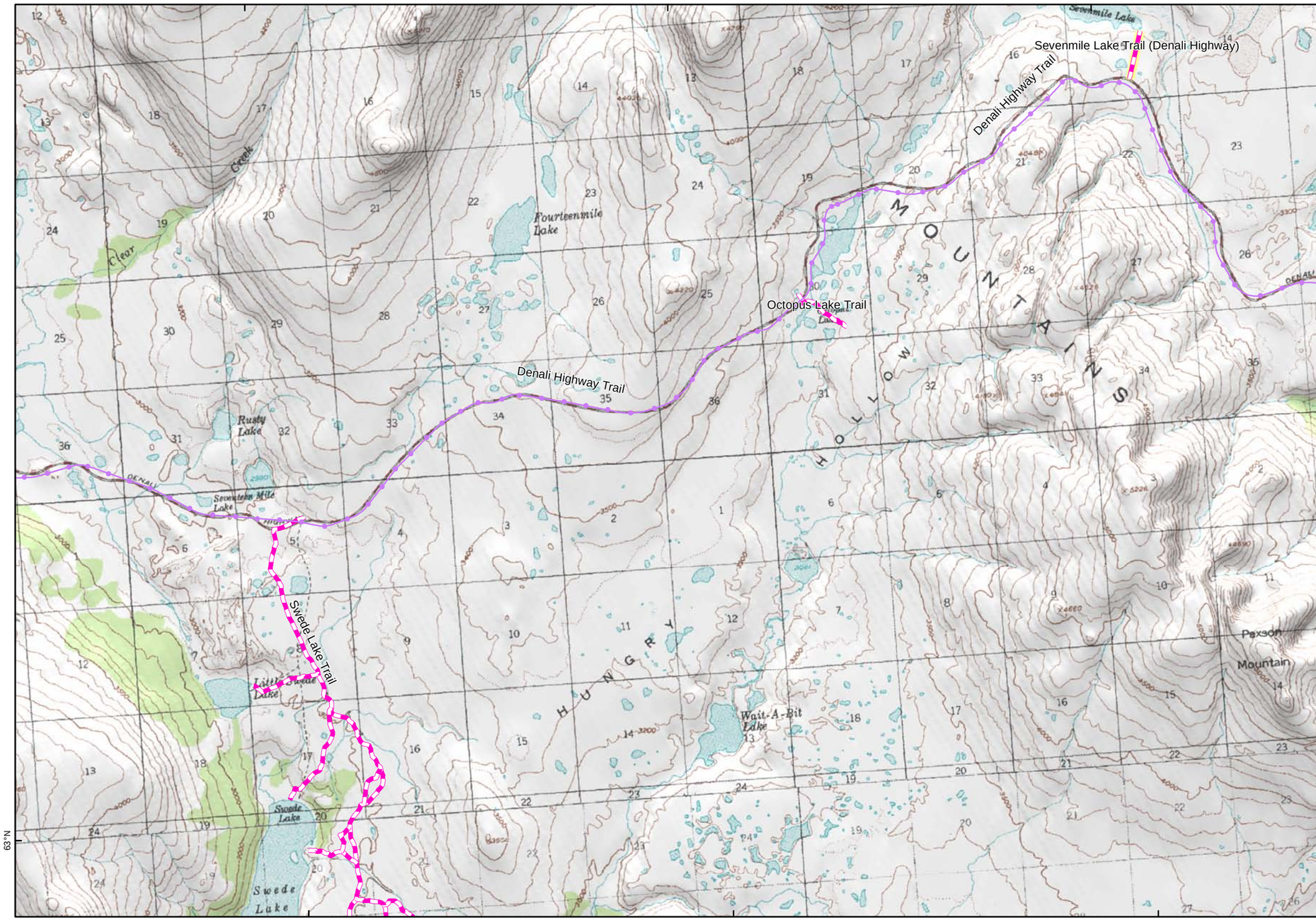
145°52'30"W

145°45'W

145°37'30"W

Map 57 W

63°N



Map 47 SW

Map 48 S

Map N/A

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

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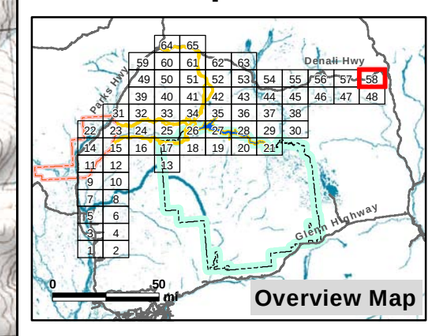
Map 58



0 1 2 mi

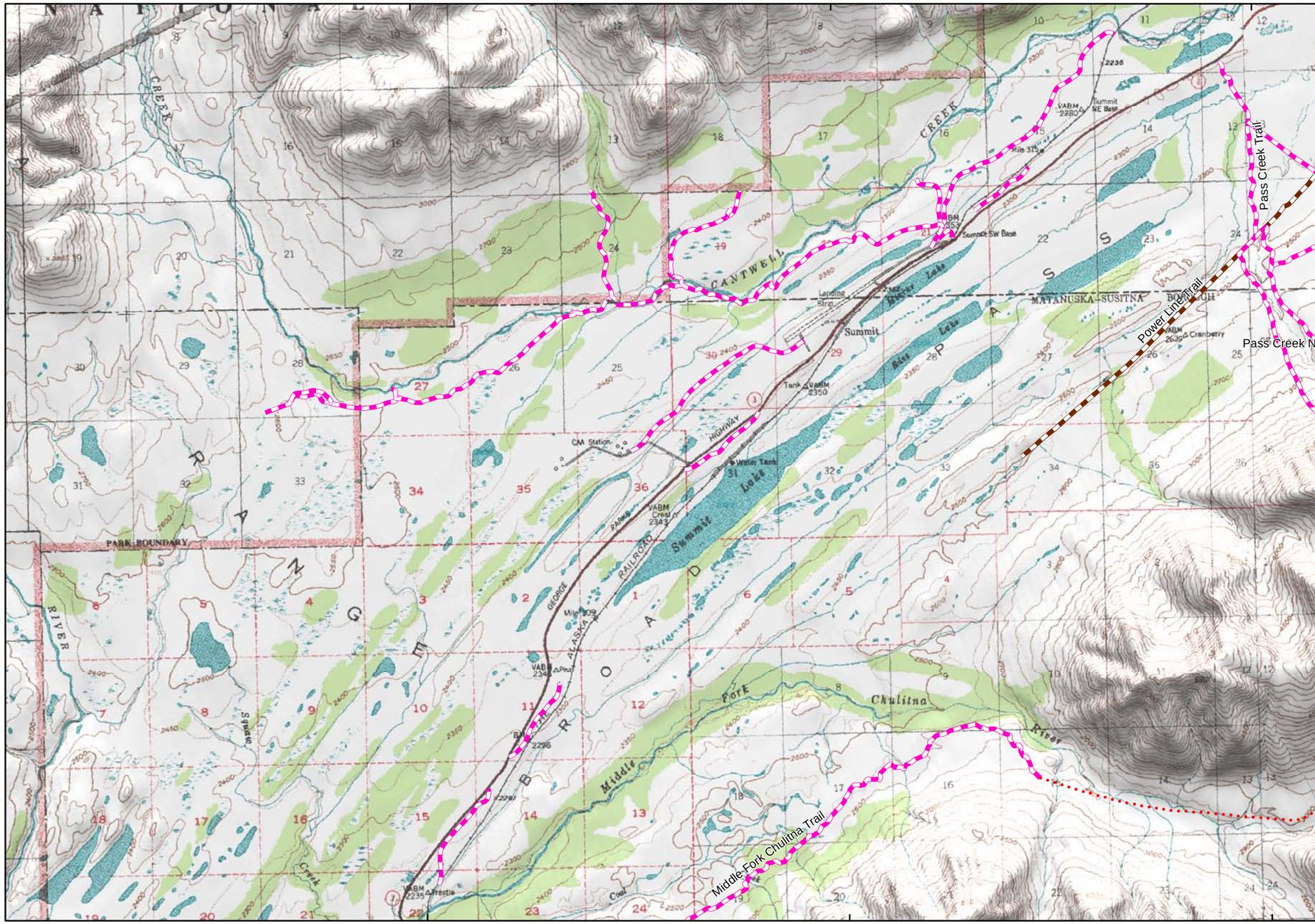
0 1 2 3 km

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A | Map N/A | Map 64 NE

149°15'W | 149°7'30"W | 149°W

Map N/A



Map 60 E

149°15'W | 149°7'30"W | 149°W

Map N/A | Map 49 S | Map 50 SE

ALASKA ENERGY AUTHORITY

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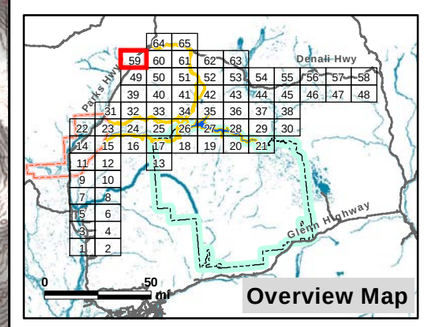
Map 59



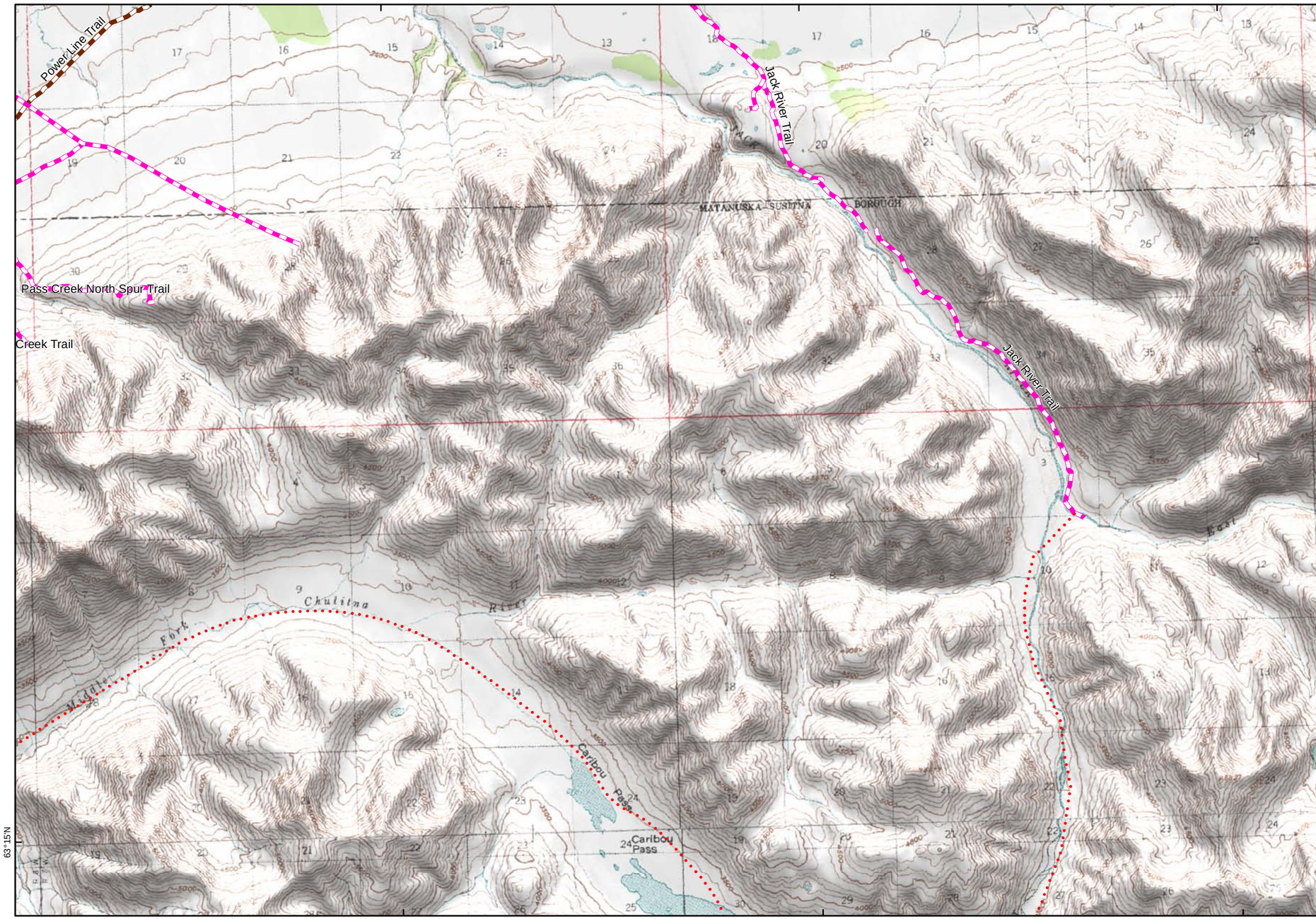
0 1 2 mi

0 1 2 3 km

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A | Map 64 N | Map 65 NE

148°52'30"W | 148°45'W | 148°37'30"W



Map 59 W

Map 61 E

63°15'N

148°52'30"W | 148°45'W | 148°37'30"W

Map 49 SW | Map 50 S | Map 51 SE

ALASKA ENERGY AUTHORITY

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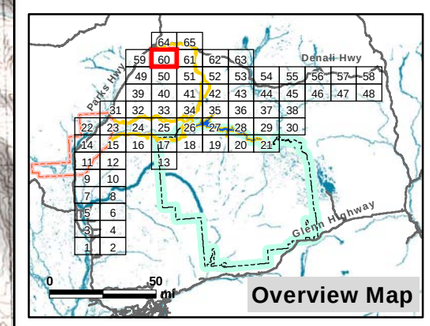
Map 60



0 1 2 mi

0 1 2 3 km

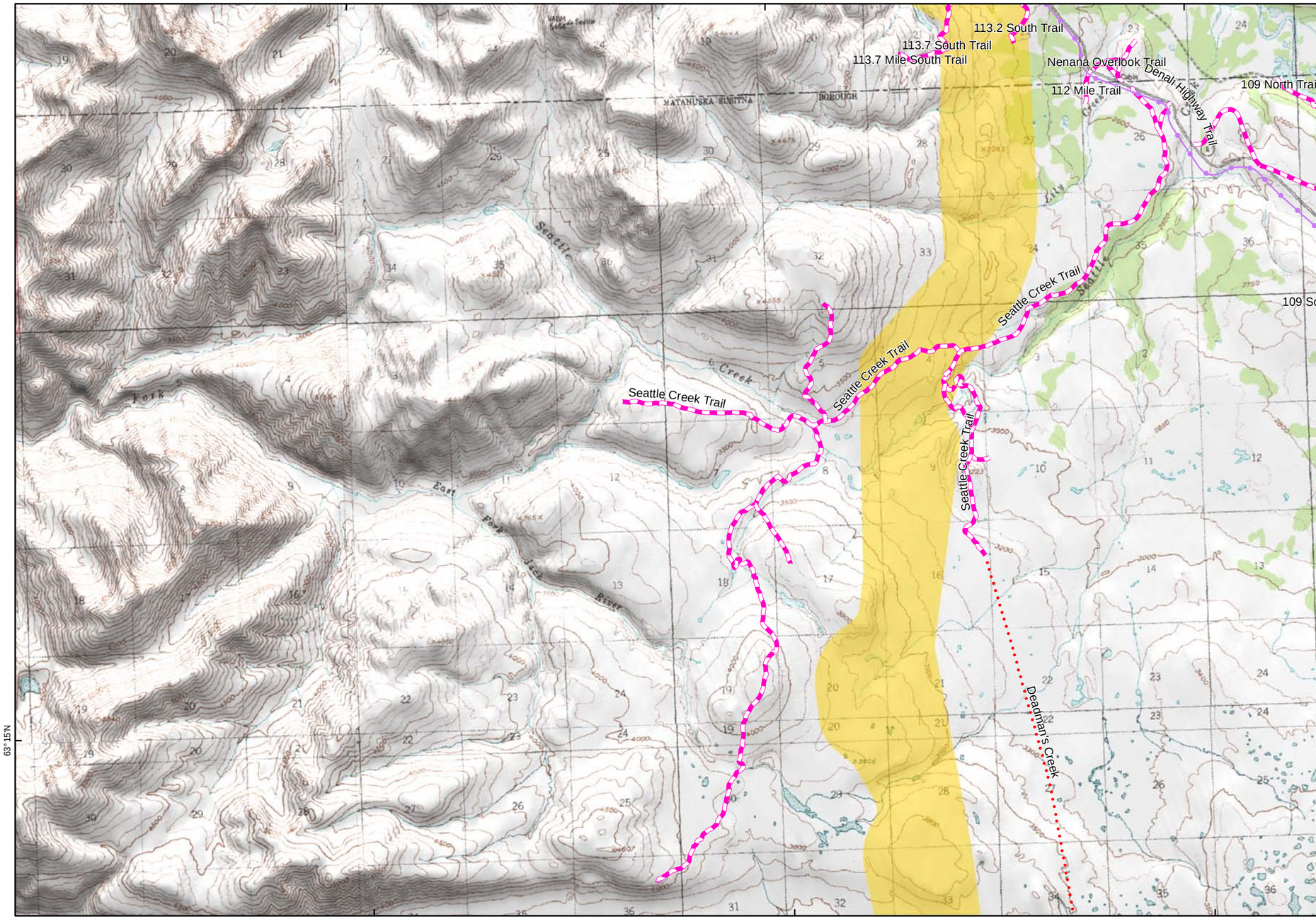
N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 64 NW | Map 65 N | Map N/A

148°30'W | 148°22'30"W | 148°15'W

Map 60 W



Map 62 E

63°15'N

148°30'W | 148°22'30"W | 148°15'W

Map 50 SW | Map 51 S | Map 52 SE

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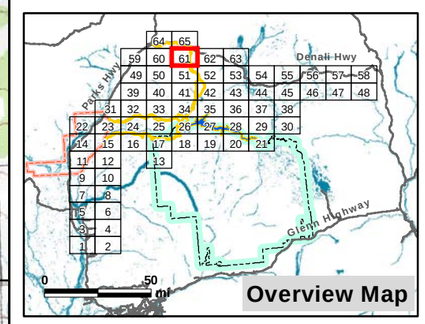
Map 61



0 1 2 mi

0 1 2 3 km

N

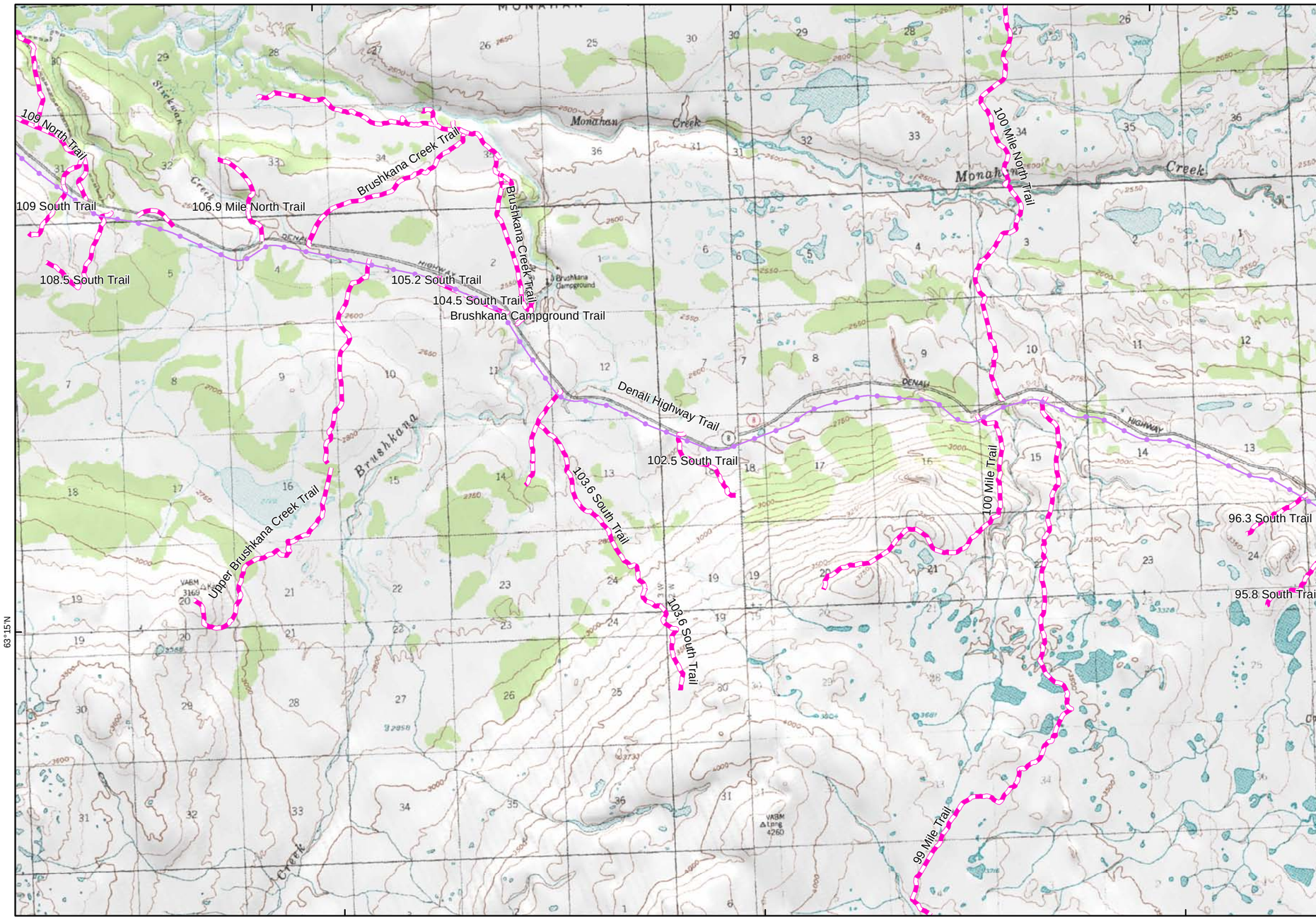
Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map 65 NW | Map N/A | Map N/A

148°7'30"W | 148°W | 147°52'30"W

Map 61 W

63°15'N



Map 63 E

ALASKA ENERGY AUTHORITY

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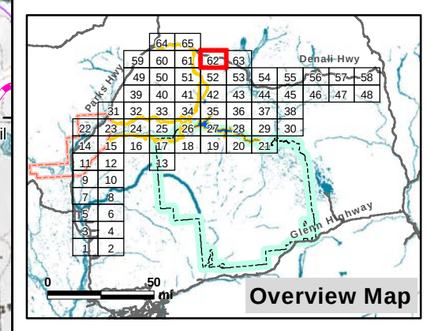
Map 62



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

148°7'30"W | 148°W | 147°52'30"W

Map 51 SW | Map 52 S | Map 53 SE

Map N/A

Map N/A

Map N/A

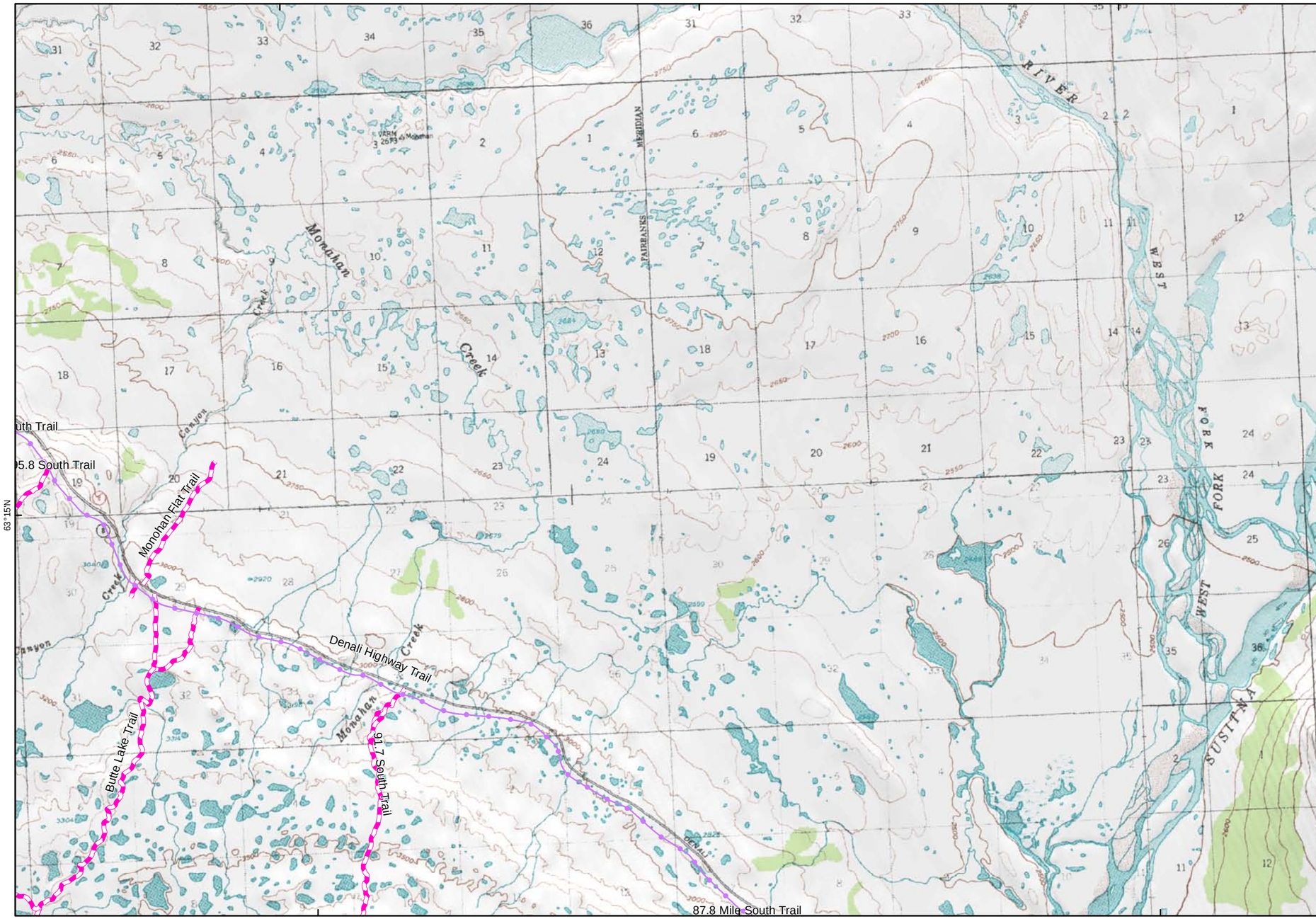
147°45'W

147°37'30"W

147°30'W

Map 62 W

63°15'N



Map 52 SW

Map 53 S

Map 54 SE

Map N/A

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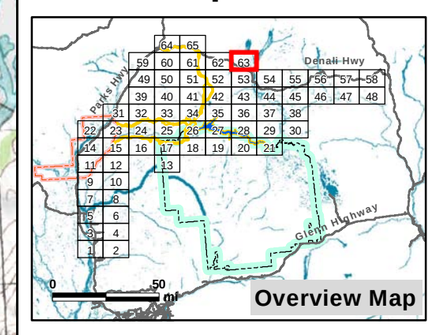
Map 63



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A

Map N/A

Map N/A

148°52'30"W

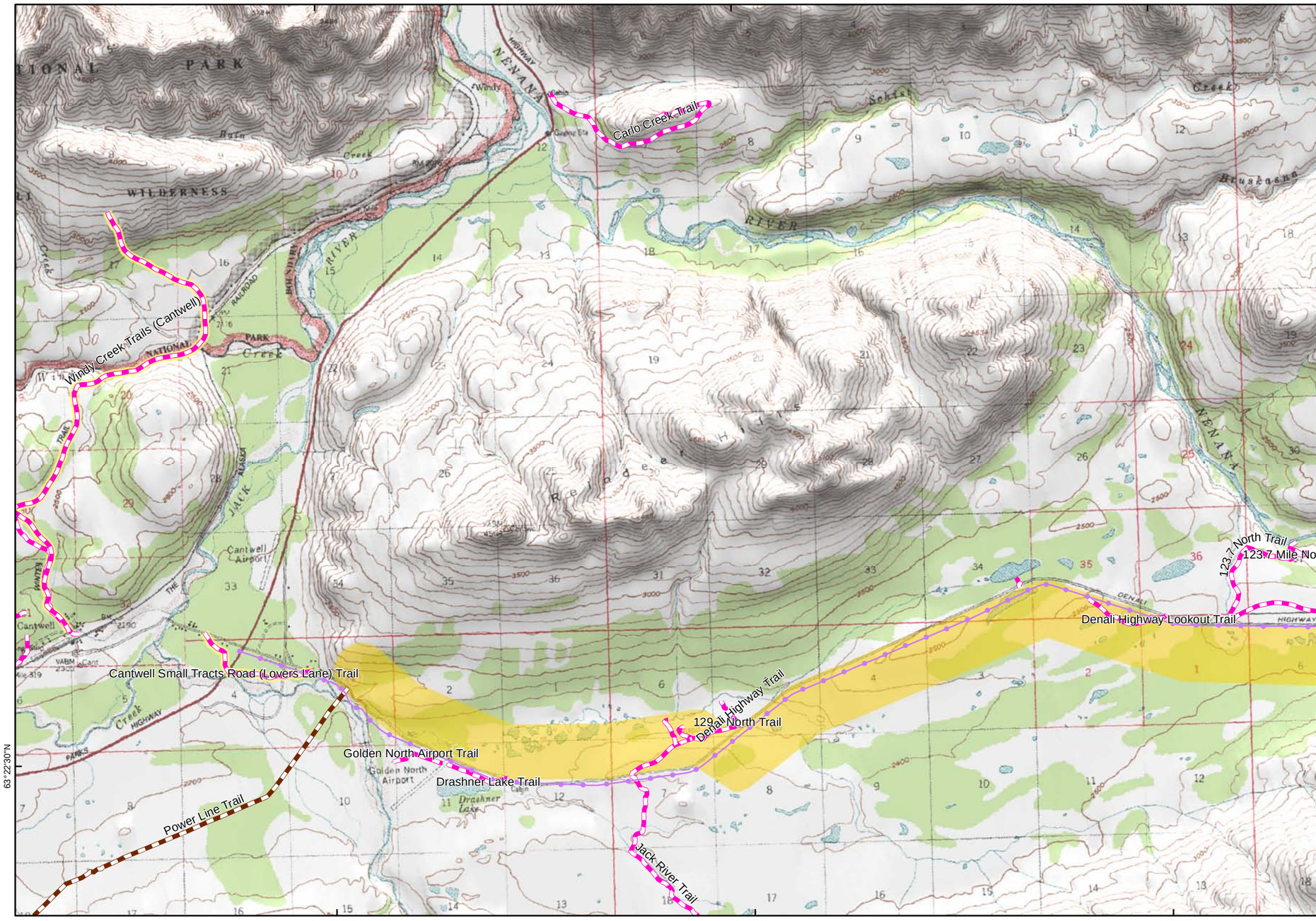
148°45'W

148°37'30"W

Map N/A

Map 65 E

63°22'30"N



148°52'30"W

148°45'W

148°37'30"W

Map 59 SW

Map 60 S

Map 61 SE

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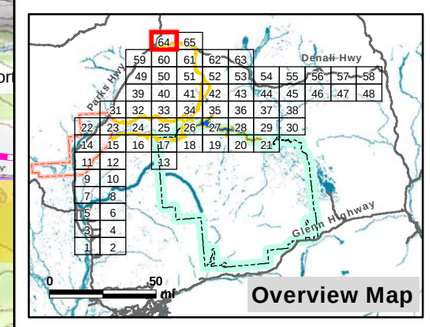
Map 64



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

Map N/A

Map N/A

Map N/A

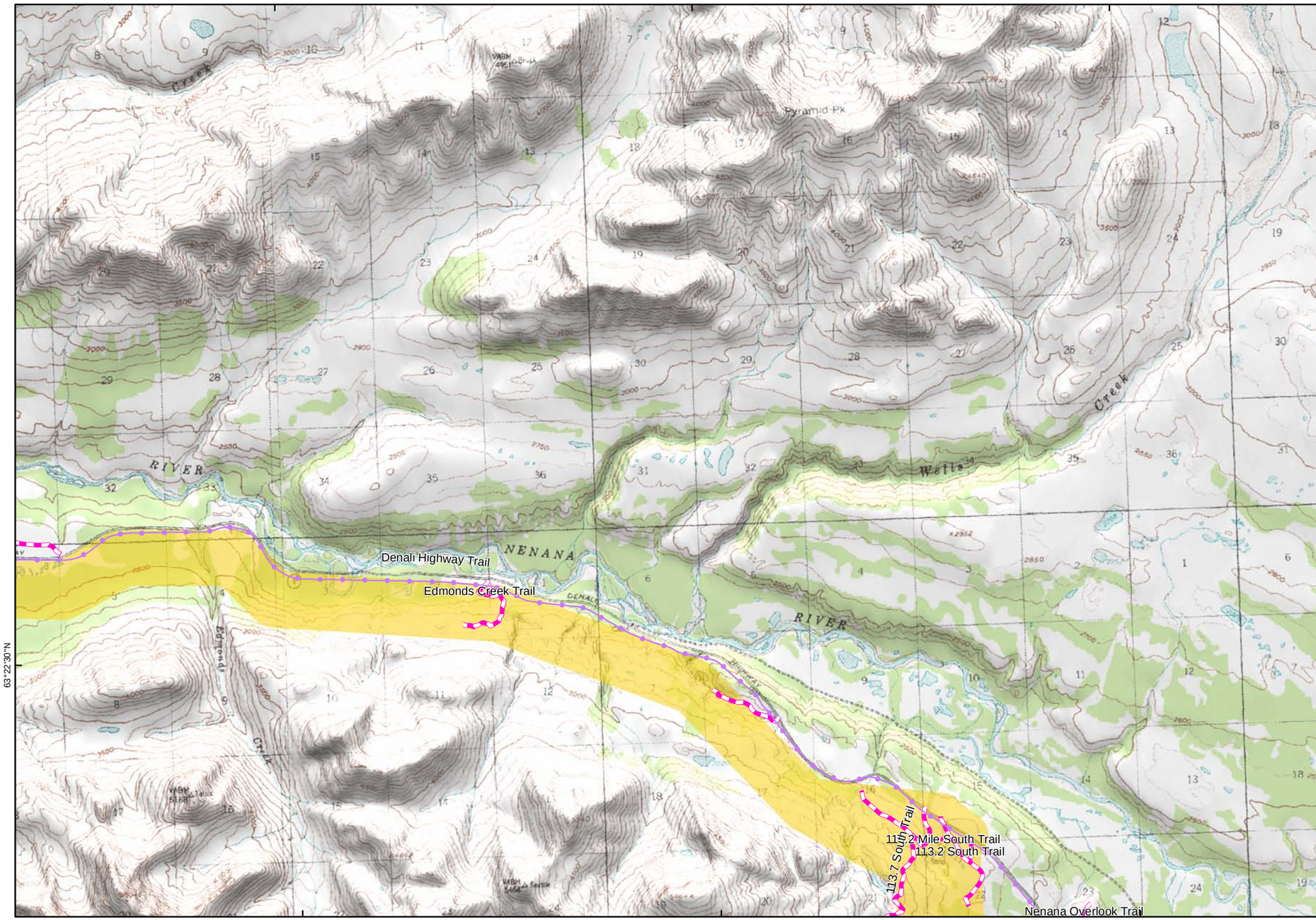
148°30'W

148°22'30"W

148°15'W

Map 64 W

63°22'30"N



Map N/A

ALASKA ENERGY AUTHORITY

PRELIMINARY DRAFT

Trail Map Book

Legend

- Proposed Watana Dam Site
- Proposed Watana Reservoir
- Preliminary Project Area
- Denali State Park
- Nelchina Public Use Area
- Summer Trail
- Winter Trail
- Year Round Trail
- Groomed Snow Cat Trail
- Unconfirmed Trail & Route
- RS 2477 Trail
- CIRI 17b Trail Easments

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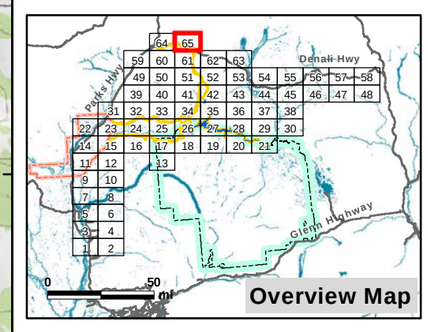
Map 65



0 1 2 mi

0 1 2 3 km

N

Projection: Alaska Albers NAD 1983
Date Created: 12/19/2012
Map Author: Kim Holmes, URS Alaska
File: REC_Trails_FieldMapSet_Detail_v2.mxd
Data Sources: See Map References

148°30'W

148°22'30"W

148°15'W

Map 60 SW

Map 61 S

Map 62 SE

MAP BOOK REFERENCES

Category	Data Source	Date	File Name and Description
Administrative Boundaries	Alaska Department of Natural Resources, Information Resource Management Section	2012-07-11	DNR_Legislatively_Designated_Area: Land parcels within the State of Alaska contained by the Legislatively Designated Area category.
	National Park Service, Alaska Regional Office, Land Resources Program Center	2012-03-27	ParkOutline: Statewide summary of all National park, preserve, monument and current wilderness boundaries.
Cities, Towns, Villages	Alaska Department of Transportation and Public Facilities, Statewide GIS Mapping Section	1999	DNR_akplacenames: Historic cities, towns, villages, and camps throughout the State of Alaska.
Hydrography	Alaska Department of Natural Resources, Division of Mining and Water, Information Resource Management Section	1995-10-05	Susitna_Drainage_Basin: Subset of the Hydrologic Unit Code (HUC) dataset showing entire Susitna drainage basin.
	Alaska Department of Natural Resources, Information Resource Management Section	1998	DNR_Hydrography_LINE: Alaska hydrography lines from USGS 1:2,000,000 Digital Line Graphs (DLG)
	Alaska Department of Natural Resources, Information Resource Management Section	1998	DNR_Hydrography_POLYGON: Alaska hydrography polygons from USGS 1:2,000,000 Digital Line Graphs (DLG)
	U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners	2011-12 download	NHDFlowline: National Hydrography Dataset (NHD) is a feature-based database that interconnects and uniquely identifies the stream segments or reaches for the nation's surface water drainage system; clipped to the Susitna Basin.
	U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners	2011-12 download	NHDWaterbody: National Hydrography Dataset (NHD) is a feature-based database that interconnects and uniquely identifies the stream segments or reaches for the nation's surface water drainage system; clipped to the Susitna Basin.
	Alaska Department of Natural Resources, Division of Mining and Water, Information Resource Management Section	1995-10-05	Susitna_Drainage_Basin: Subset of the Hydrologic Unit Code (HUC) dataset showing entire Susitna drainage basin.
Imagery/ Raster	University of Alaska Fairbanks, Geographic Information Network of Alaska; Web Map Services	2011	DRGs Hill Shaded Without Scale Limits is a layer group that provides four layers, “drg_24k”, “drg_25k”, “drg_63k”, “drg_250k”, which contain the USGS topographic maps for the scales.

Category	Data Source	Date	File Name and Description
Imagery/ Raster (Continued)	National Park Service, Alaska Regional Office	2008-08-07	aknedft_sli: USGS National Elevation Dataset (NED) for Alaska (integer grid with elevation values in feet).
	National Park Service, Alaska Regional Office	2008-08-07	aknedft_slihs: Hillshade of the USGS National Elevation Dataset (NED) for Alaska (integer grid with elevation values in feet).
	National Geographic; ESRI	2012	National Geographic: ArcGIS Online basemap includes administrative boundaries, cities, protected areas, highways, roads, railways, water features, buildings and landmarks, overlaid on shaded relief and land cover imagery for added context. http://goto.arcgisonline.com/maps/NatGeo_World_Map
Project Location Facilities and Operations	HDR Alaska, Inc.	2010	SUWA_Damsites: Proposed Watana Dam site from Alaska DOT & PF baseline data for the evaluation of Watana Transportation Access Study.
	MWH Global	2012-08-29	RSVR_Max_Pool_2050ft: Proposed maximum water level (elevation 2,050 feet) for the reservoir. From MatSu LiDAR and IFSAR data.
	MWH Global	2012-10-26	RSP_Corridors_10_26_12: Study area corridors for the proposed roads; transmission lines; dam and camp facility areas; and 2,050 reservoir max pool elevation.
Recreation	URS Corporation	2012-12-18	REC_Trails_12_17_12: Trail compilation for the proposed project area, Affects Analysis Study Area, and Facilities Study Area. From URS digitized trails, ADNR State Parks Snow TRAC Grooming Trails, ADNR USGS 63360 Trailset, ADNR RS 2477 Routes, BLM 17(b) Easements, BLM Trails, and SuWa_Trails.
	URS Corporation	2012-12-17	REC_TrailsIndex: Index grid created over the Effects Analysis Study Area and additional high use recreation areas for the purpose of generating a trails map book. REC_RegionIndex: Index grid created over the Facilities Study area for the purpose of generating a series of regional scale trail maps.
Transportation	Alaska Department of Transportation and Public Facilities	2012-06-12	DOT_RoadSystem_06121: Alaska DOT&PF road centerlines for Alaska.