State of Alaska
Department of Fish and Game
Division of Sport Fish

Nomination Form
Anadromous Waters Catalog

Region: Southcentral

USGS Quad(s): Seward B-7

AWC Number of Water Body: 244-30-10010-2225-3004

Name of Water body: Grant Creek ☒ USGS Name ☐ Local Name

☐ Addition ☐ Deletion ☐ Correction ☒ Backup Information

For Office Use

Nomination #	140319	Fisheries Scientist	Date
Revision Year:	2015	Habitat Operations Manager	Date
Revision to: Atlas ____ Catalog ____ Both ____		AWC Project Biologist	Date 9/12/14
Revision Code:	F-1	GIS Analyst	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho	April-Oct 2013		x		☒
					☐
					☐
					☐
					☐

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments Coho rearing downstream of 60.457498 & -149.349070 (NAD83) - Minnow Traps, snorkeling, beach seining and inclined plane traps.

Supports previous documentation

Name of Observer (please print): John R. Stevenson

Signature: [signature]

Date: 9/5/14

Agency: BioAnalysts, Inc.

Address: 16541 Redmond Way, #339
Redmond, WA 98052

ALASKA DEPT. OF FISH & GAME
SEP 05 2014

This certifies that in my best professional judgment and belief the above information is evidence that this waterbody should be included in or deleted from the Anadromous Waters Catalog.

Signature of Area Biologist: _____ Date: _____

Name of Area Biologist (please print):

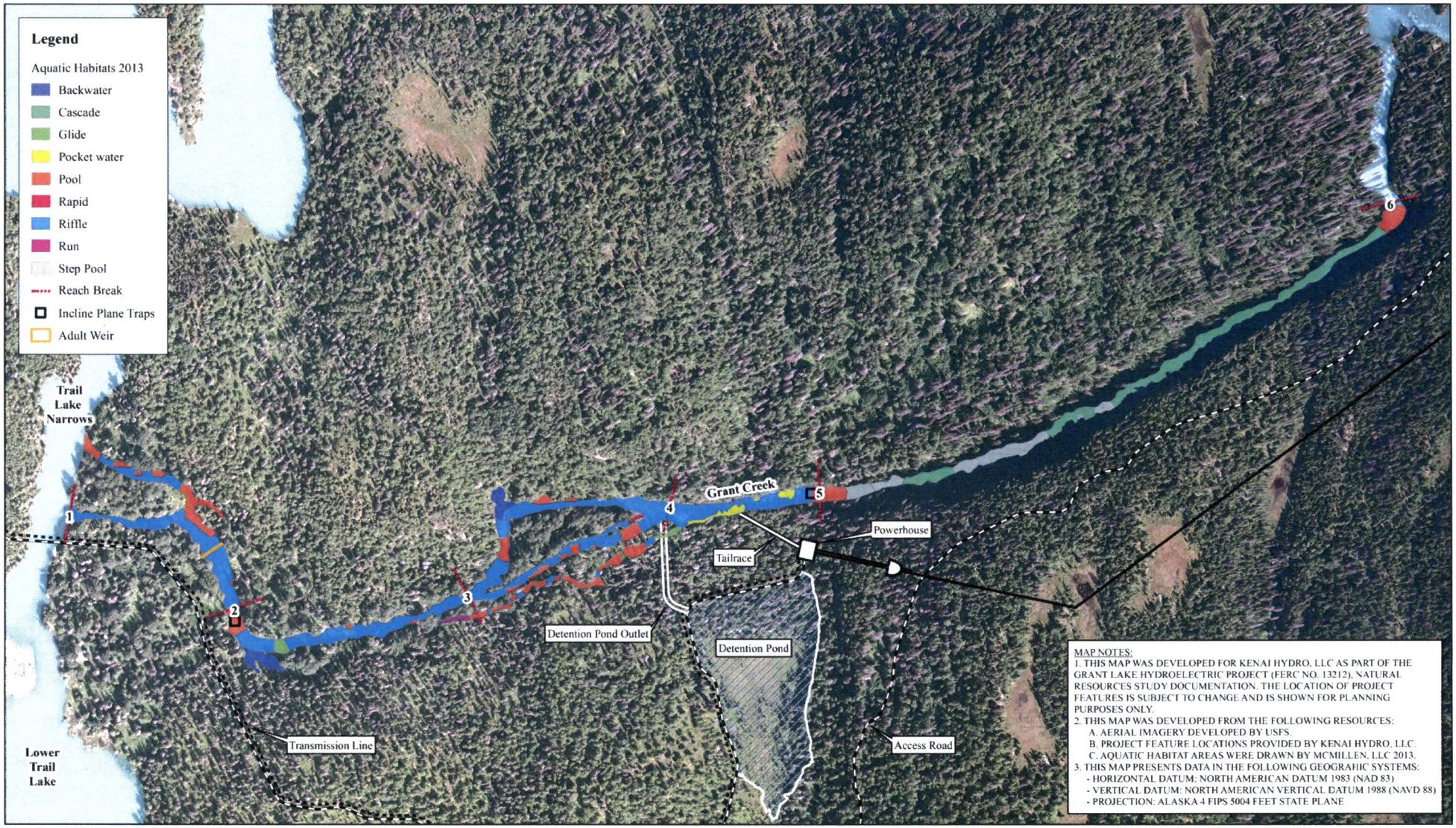
Revision 11/13

Additional Notes for the sampling of Grant Creek (244-30-10010-2225-3004) and Lower Trail Lake (244-30-10010-2225-0010) by BioAnalysts, Inc. in 2013.

In Grant Creek, adult salmon were captured and handled at a weir located approximately 200 meters upstream of the confluence. Adult Chinook, sockeye, coho and pink were captured, and a portion of the Chinook, sockeye and coho populations were radio- and floy-tagged. Telemetry, carcass, and visual surveys were conducted once per week until the end of the spawning period for each species. Overall abundance was estimated using the Area-Under-the-Curve method.

Juvenile abundance and distribution was assessed using 24 hour minnow sets (April-October), nighttime snorkeling (April and May), beach seining (April and May), and the use of two inclined plane traps.

All fish captured during the study have been entered into the ADFG FRP database, which is being provided along with the AWC nomination forms, as is maps of spawning locations, visual and telemetry locations of adults, and sample locations.



MAP NOTES:
1. THIS MAP WAS DEVELOPED FOR KENAI HYDRO, LLC AS PART OF THE GRANT LAKE HYDROELECTRIC PROJECT (FERC NO. 13212), NATURAL RESOURCES STUDY DOCUMENTATION. THE LOCATION OF PROJECT FEATURES IS SUBJECT TO CHANGE AND IS SHOWN FOR PLANNING PURPOSES ONLY.
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   C. AQUATIC HABITAT AREAS WERE DRAWN BY MCMILLEN, LLC 2013.
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   - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)
   - PROJECTION: ALASKA 4 FIPS 5004 FEET STATE PLANE

N

0 150 300 600 Feet

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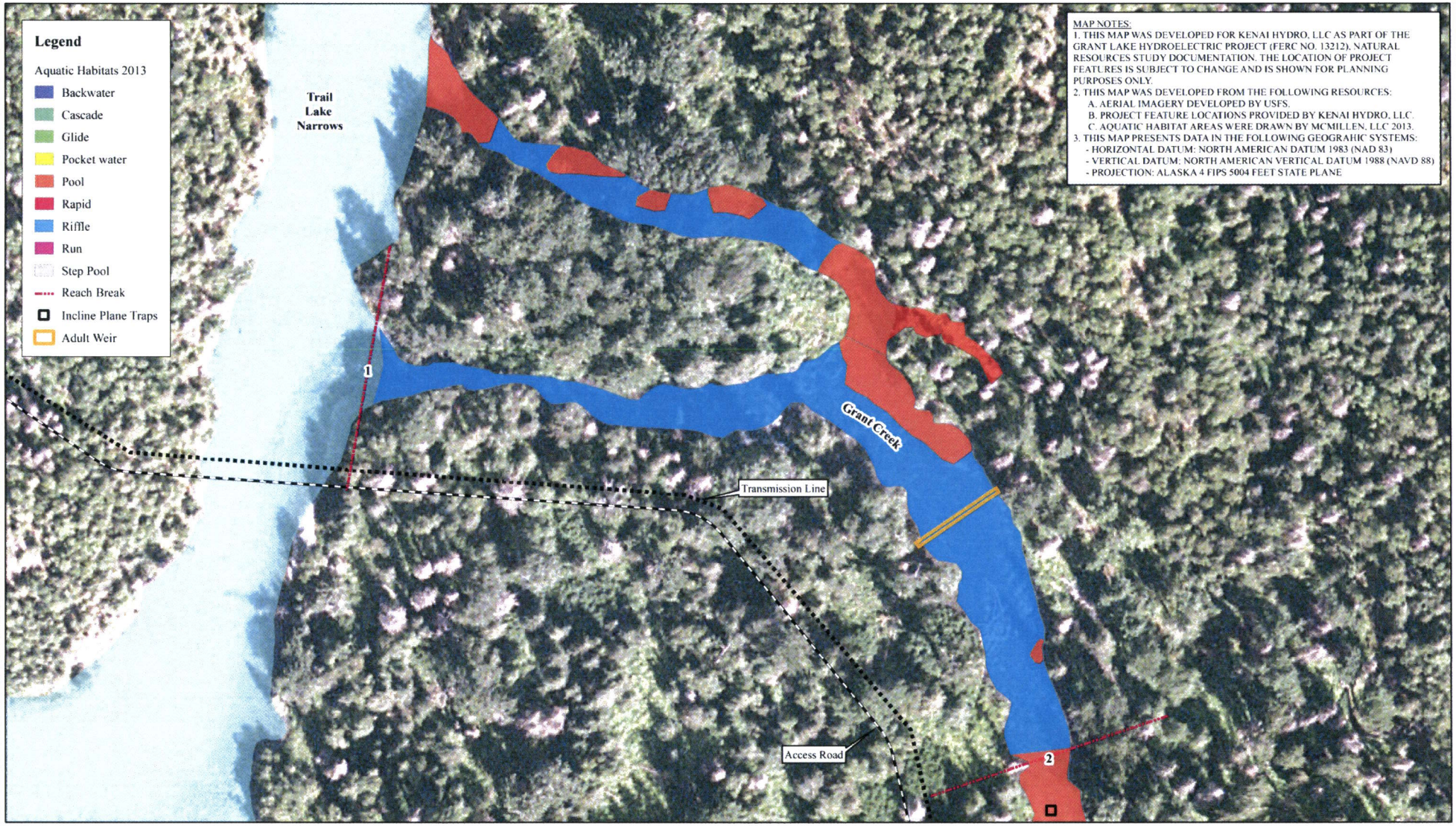
GRANT LAKE HYDROELECTRIC PROJECT - FERC PROJECT NO. 13212

GRANT LAKE NATURAL RESOURCES STUDY

Figure 3.1-1
Grant Creek Aquatic Habitats
Reaches 1 - 5

J. Woodbury
J. Woodbury
M. Miller
2/18/2014

1:3,300



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N

0 25 50 100 Feet

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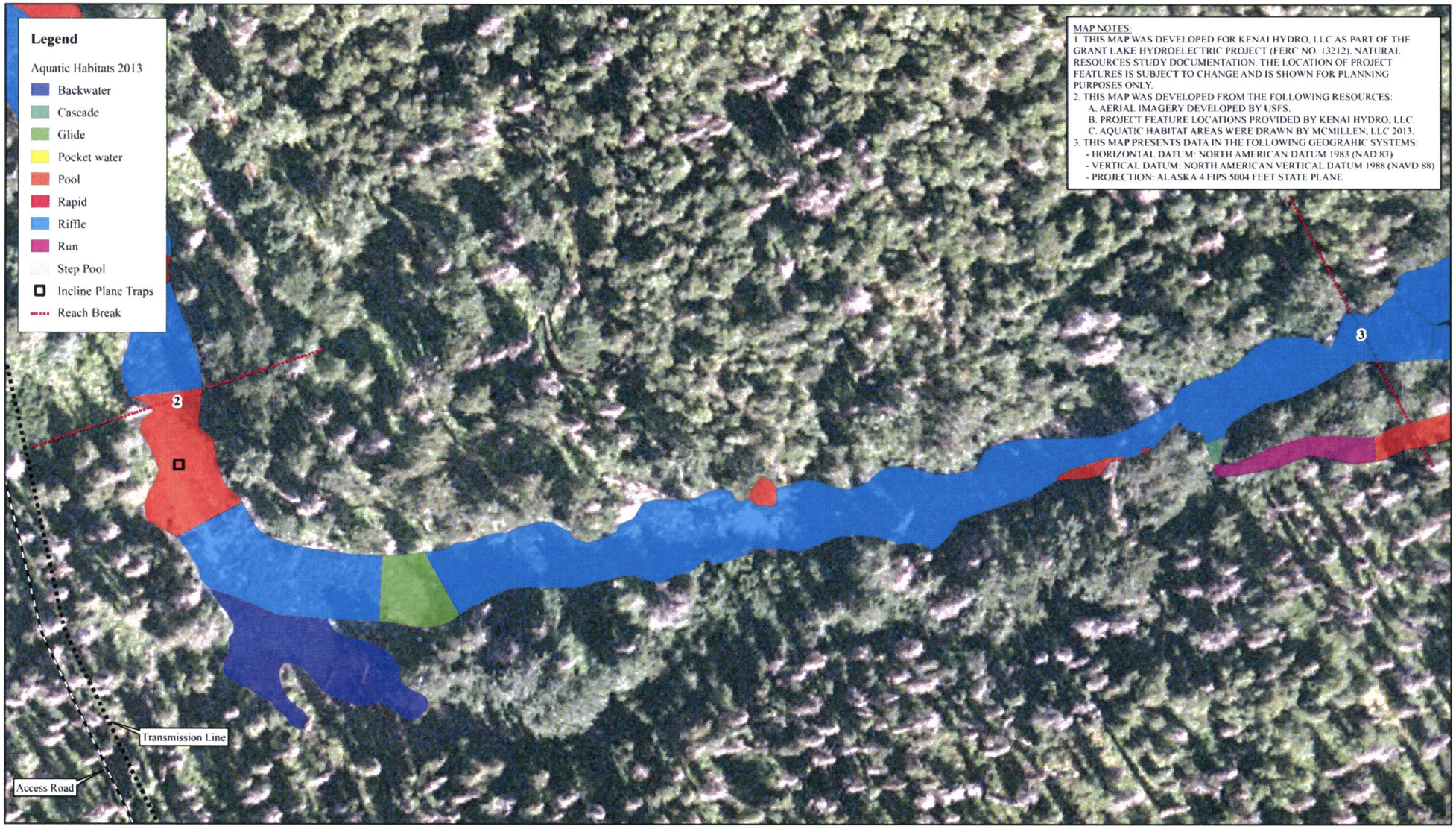
GRANT LAKE NATURAL RESOURCES STUDY

Figure 3.1-1
Grant Creek Aquatic Habitats
Reach 1

J. Woedbury
J. Woedbury
M. Miller
2/18/2014

2 of 6

1:800



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0 25 50 100 Feet

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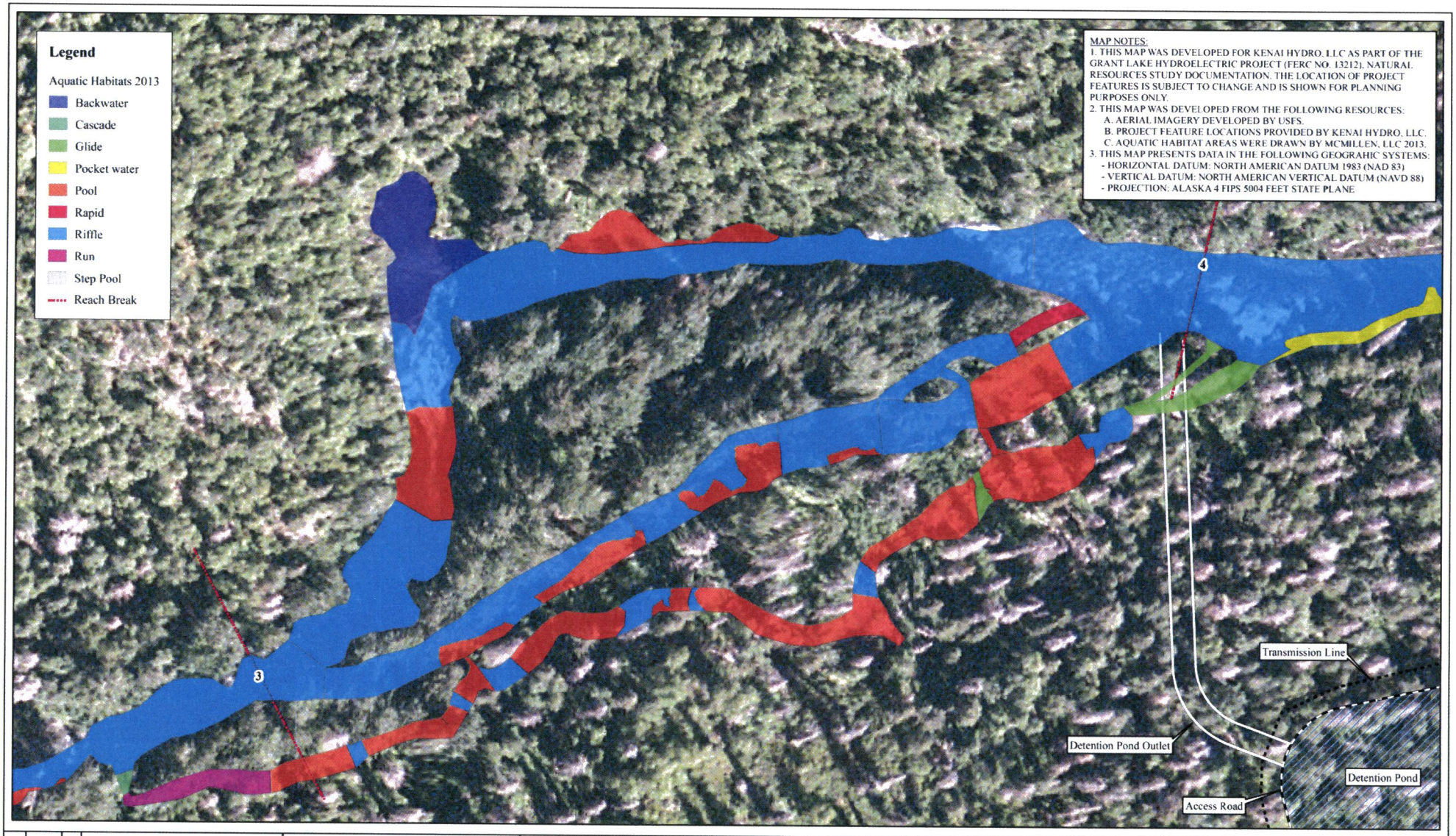
GRANT LAKE NATURAL RESOURCES STUDY

Figure 3.1-1
Grant Creek Aquatic Habitats
Reach 2

J. Woodbury
J. Woodbury
M. Miller
2/18/2014

3 of 6

1:650



N

0 25 50 100 Feet

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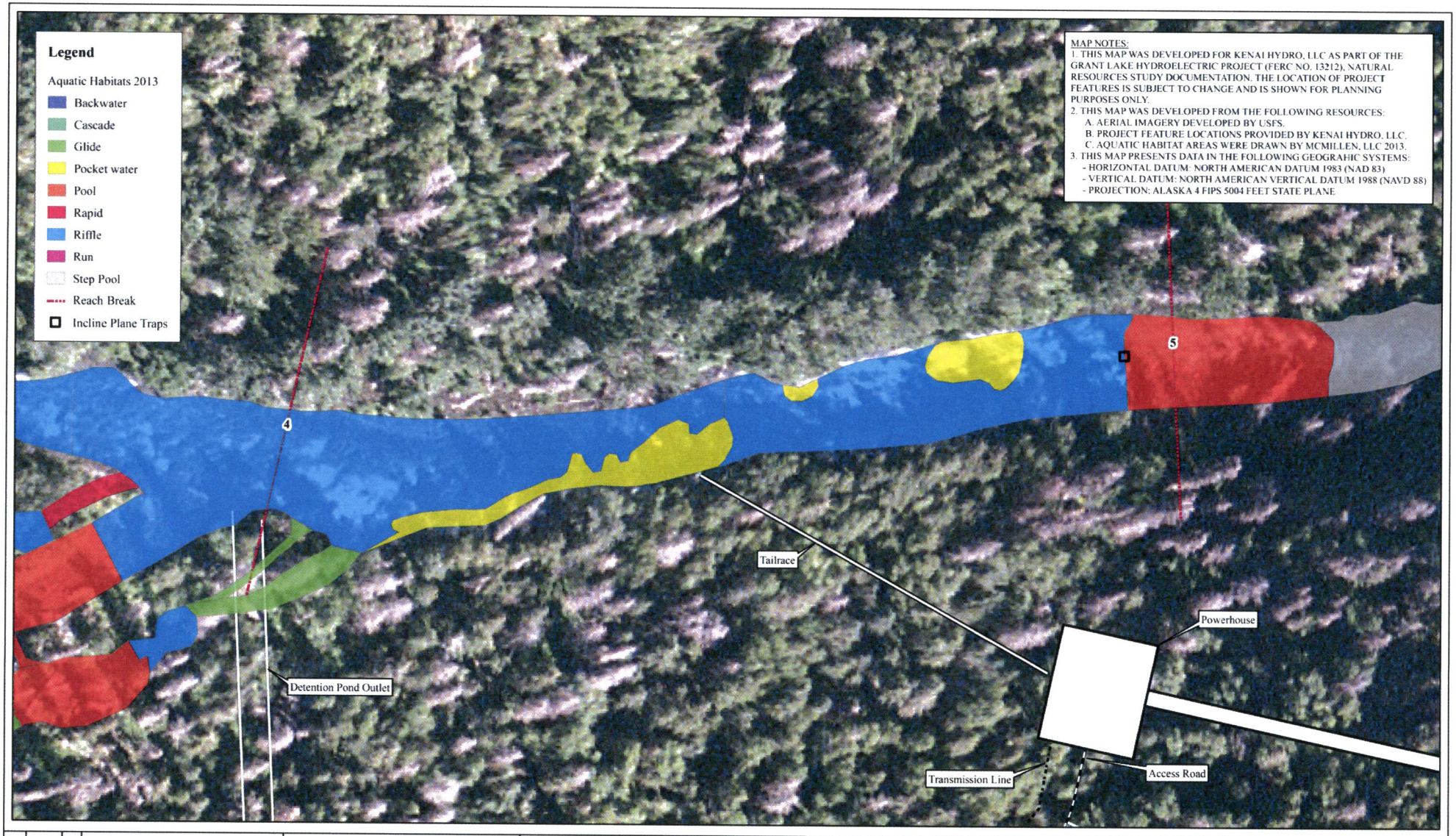
GRANT LAKE NATURAL RESOURCES STUDY

Figure 3.1-1
Grant Creek Aquatic Habitats
Reach 3

J. Woodbury
J. Woodbury
M. Miller
2/18/2014

4 of 6

1:700



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0 25 50 100 Feet

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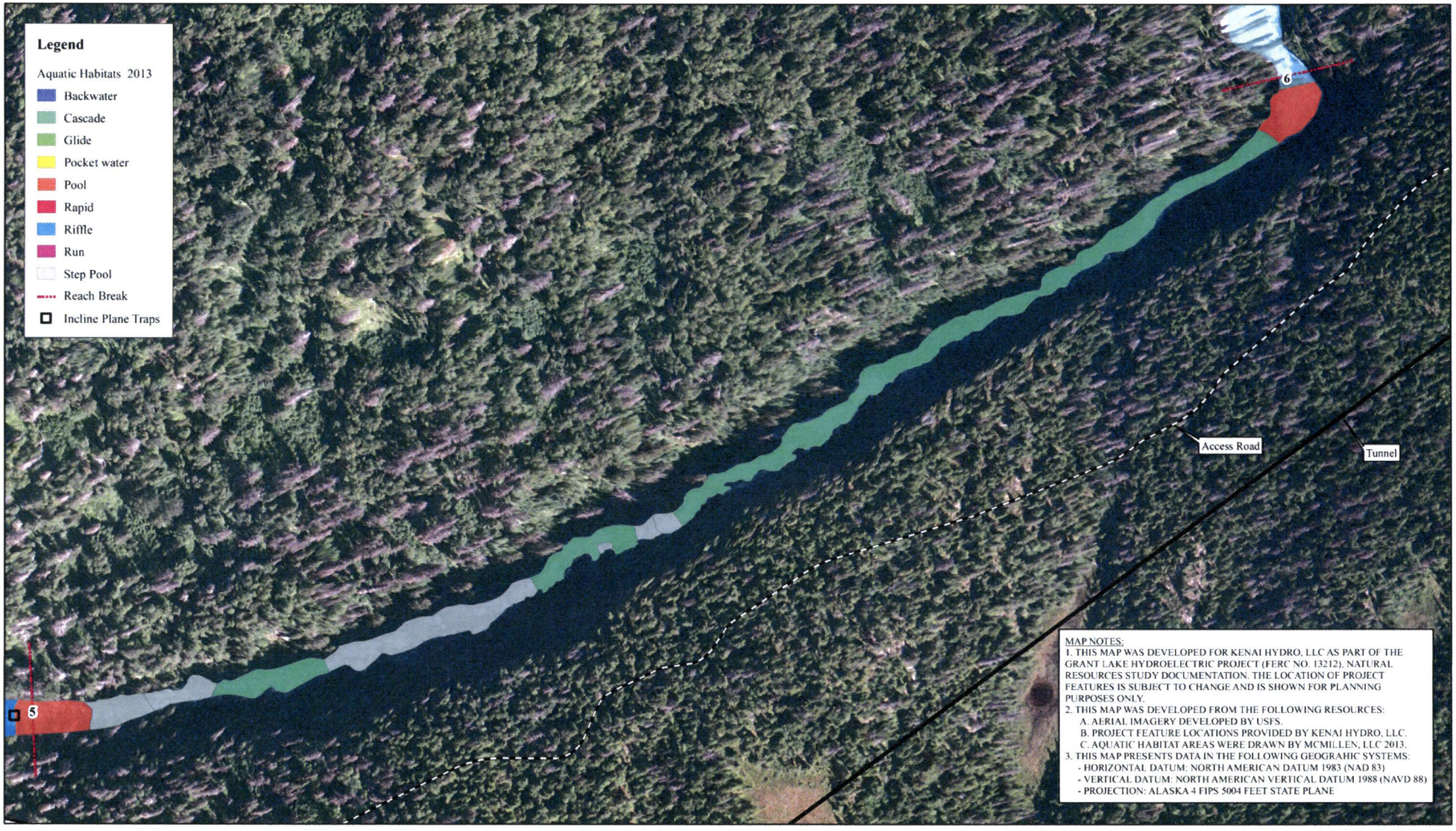
GRANT LAKE NATURAL RESOURCES STUDY

Figure 3.1-1
Grant Creek Aquatic Habitats
Reach 4

J. Woodbury
J. Woodbury
M. Miller
2.18.2014

5 of 6

1:550



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0 50 100 200 Feet

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GRANT LAKE HYDROELECTRIC PROJECT - FERC PROJECT NO. 13212

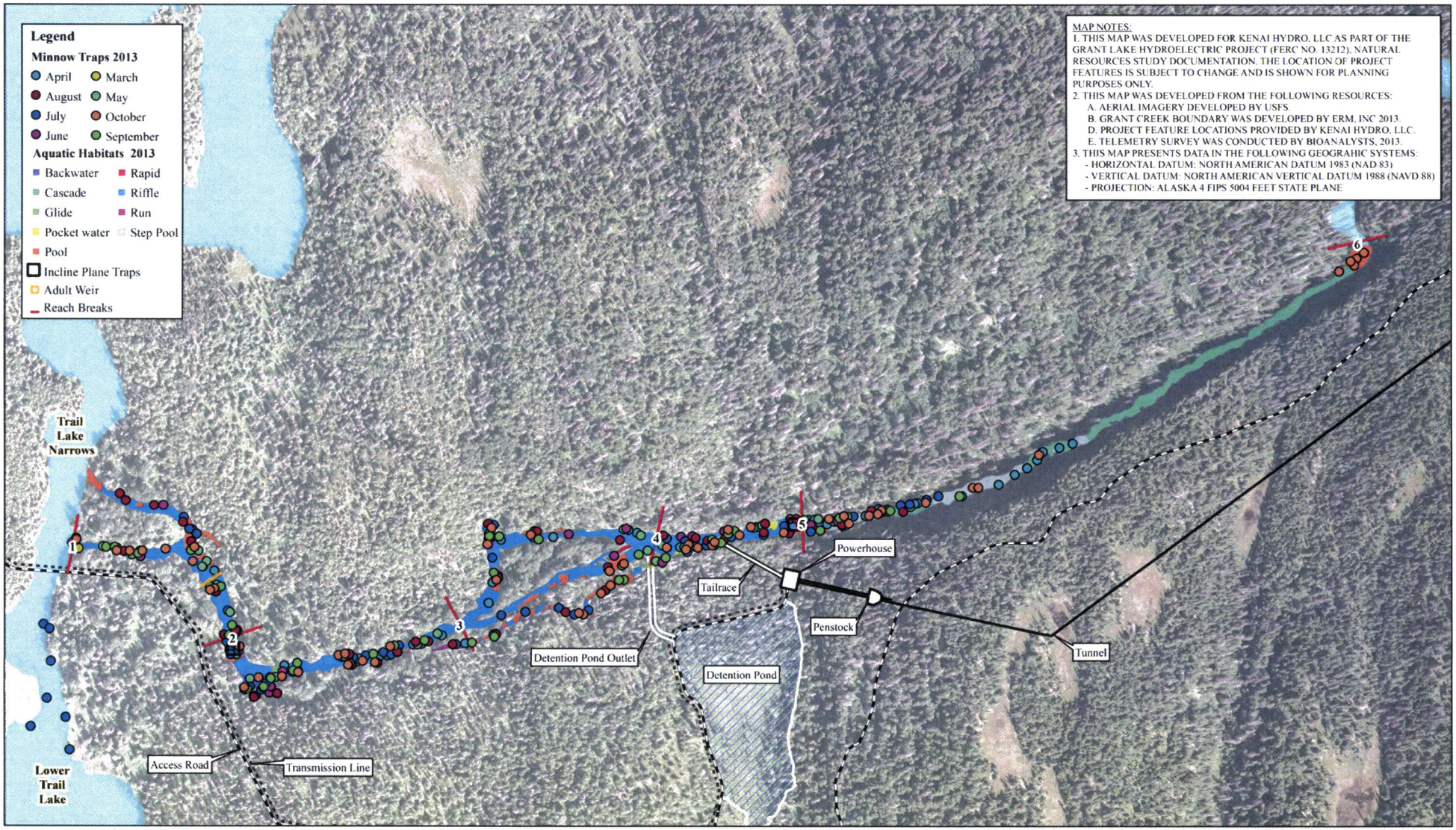
GRANT LAKE NATURAL RESOURCES STUDY

Figure 3.1-1
Grant Creek Aquatic Habitats
Reach 5

J. Woodbury
J. Woodbury
M. Miller
2/18/2014

6 of 6

1:1,500



REV	DATE	BY	DESCRIPTION

N

Drawing Scale
0 150 300 600 Feet

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1691 SHORELINE DRIVE
BOISE ID 83702
OFFICE 208 342 4214
FAX 208 342 4216

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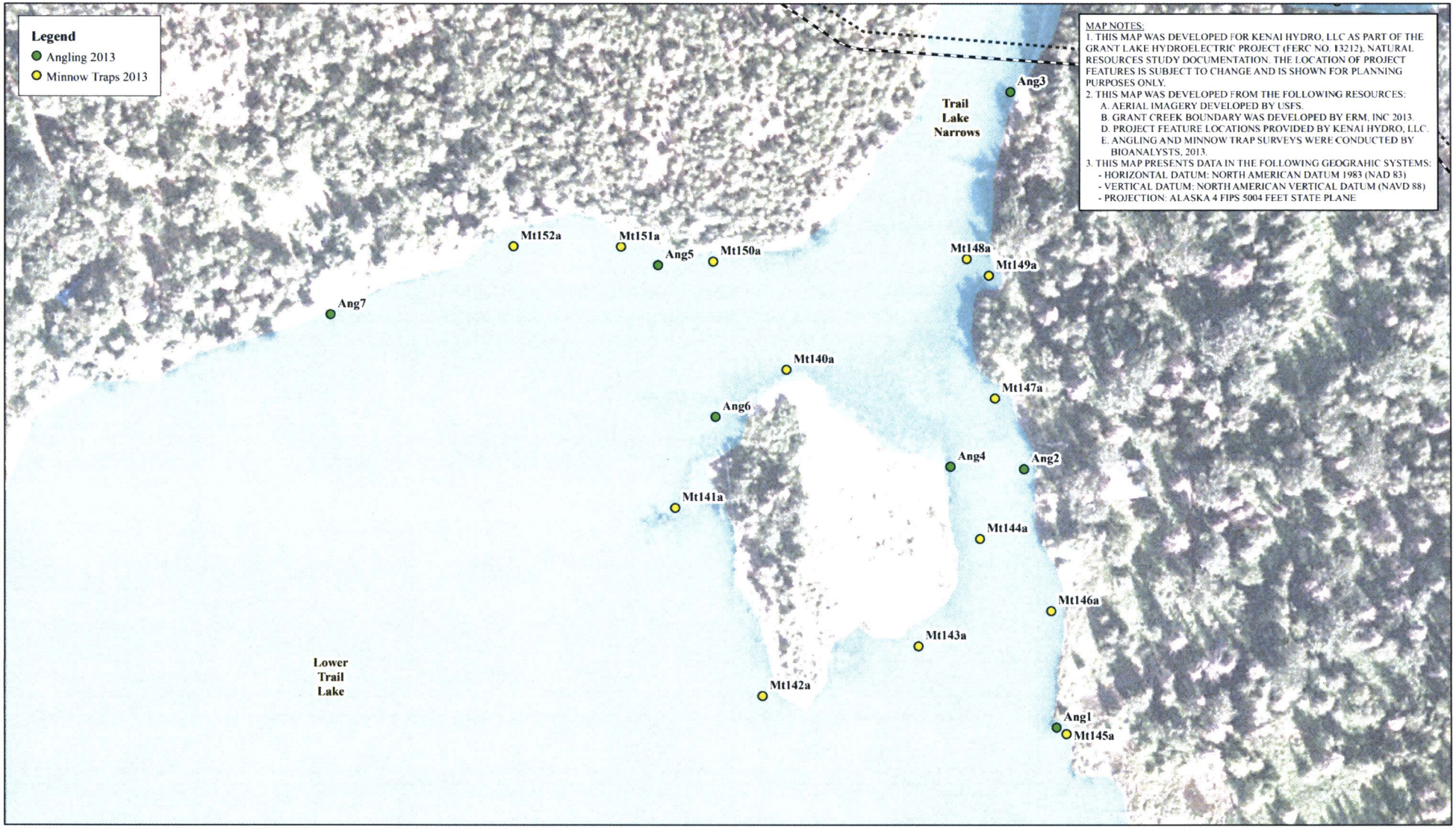
GRANT LAKE NATURAL RESOURCES STUDY

Figure 5.2-2
Minnow Trap Observations
By Month

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED M. Miller
ISSUED DATE 2/18/2014

DRAWING
1 of 1

SCALE: 1:3,400



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   - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD 88)
   - PROJECTION: ALASKA 4 FIPS 5004 FEET STATE PLANE

REV	DATE	BY	DESCRIPTION

N

Drawing Scale
0 25 50 100 Feet

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GRANT LAKE NATURAL RESOURCES STUDY

Figure 5.3-1
Minnow Traps & Angling Locations

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED M. Miller
ISSUED DATE 2/18/2014

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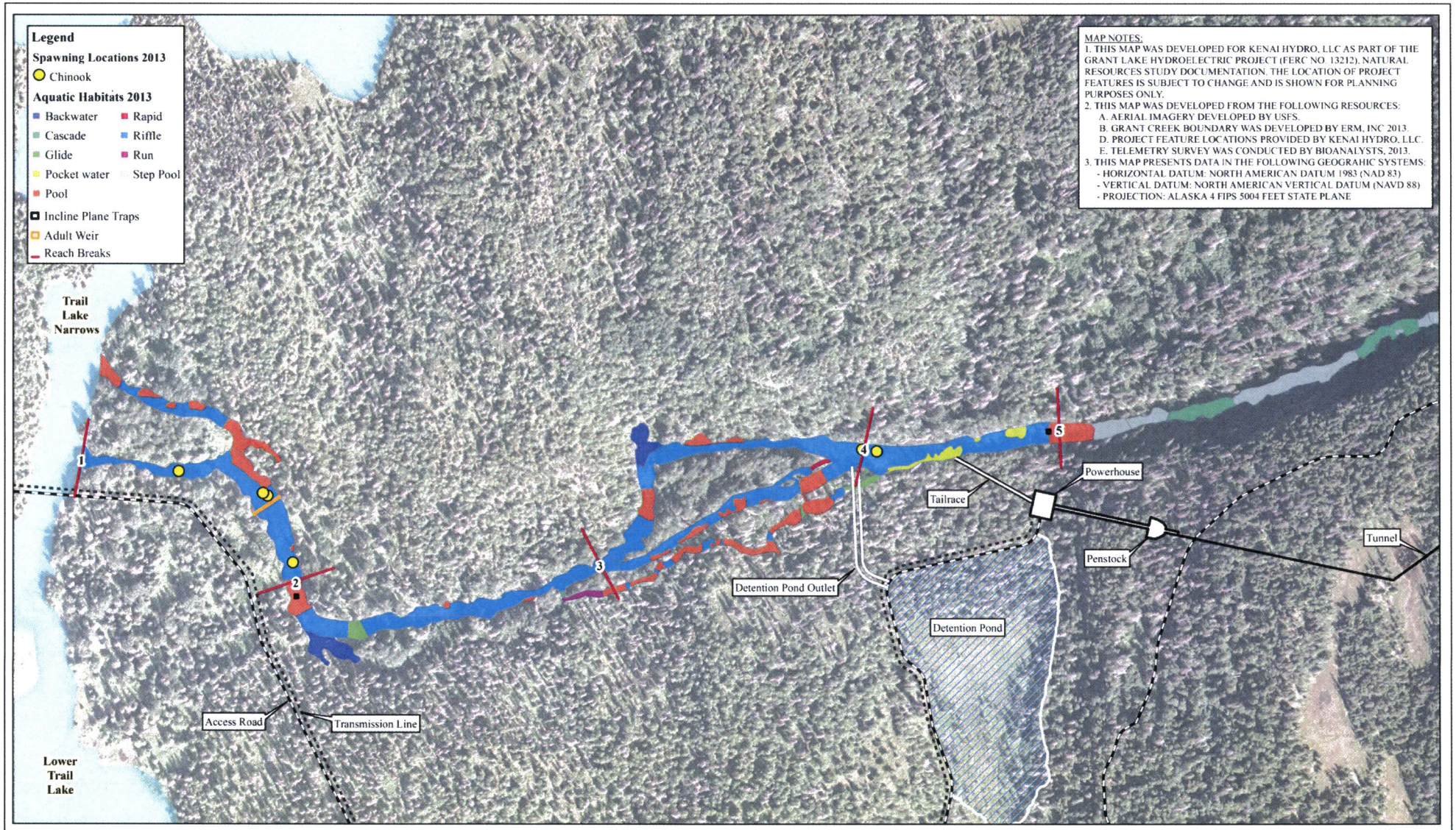
1 of 1

SCALE: 1:900



REV	DATE	BY	DESCRIPTION

N

Drawing Scale: 0 100 200 400 Feet

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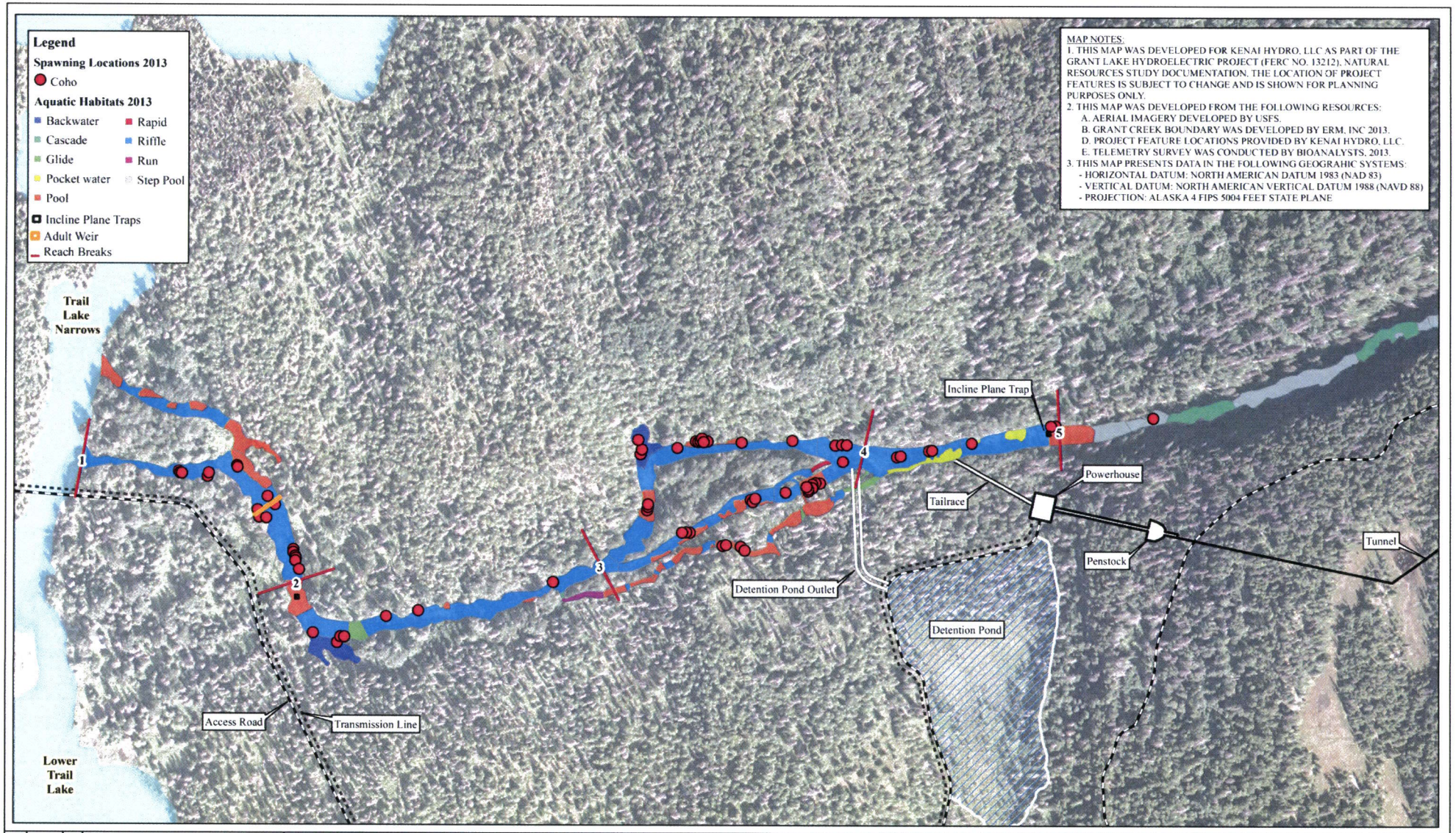
GRANT LAKE NATURAL RESOURCES STUDY

Figure 5.1-6
Spawning Locations
Chinook Salmon

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED M. Miller
ISSUED DATE 2/25/2014

DRAWING
1 of 1

SCALE: 1:2,500



REV	DATE	BY	DESCRIPTION

N

Drawing Scale: 0 100 200 400 Feet

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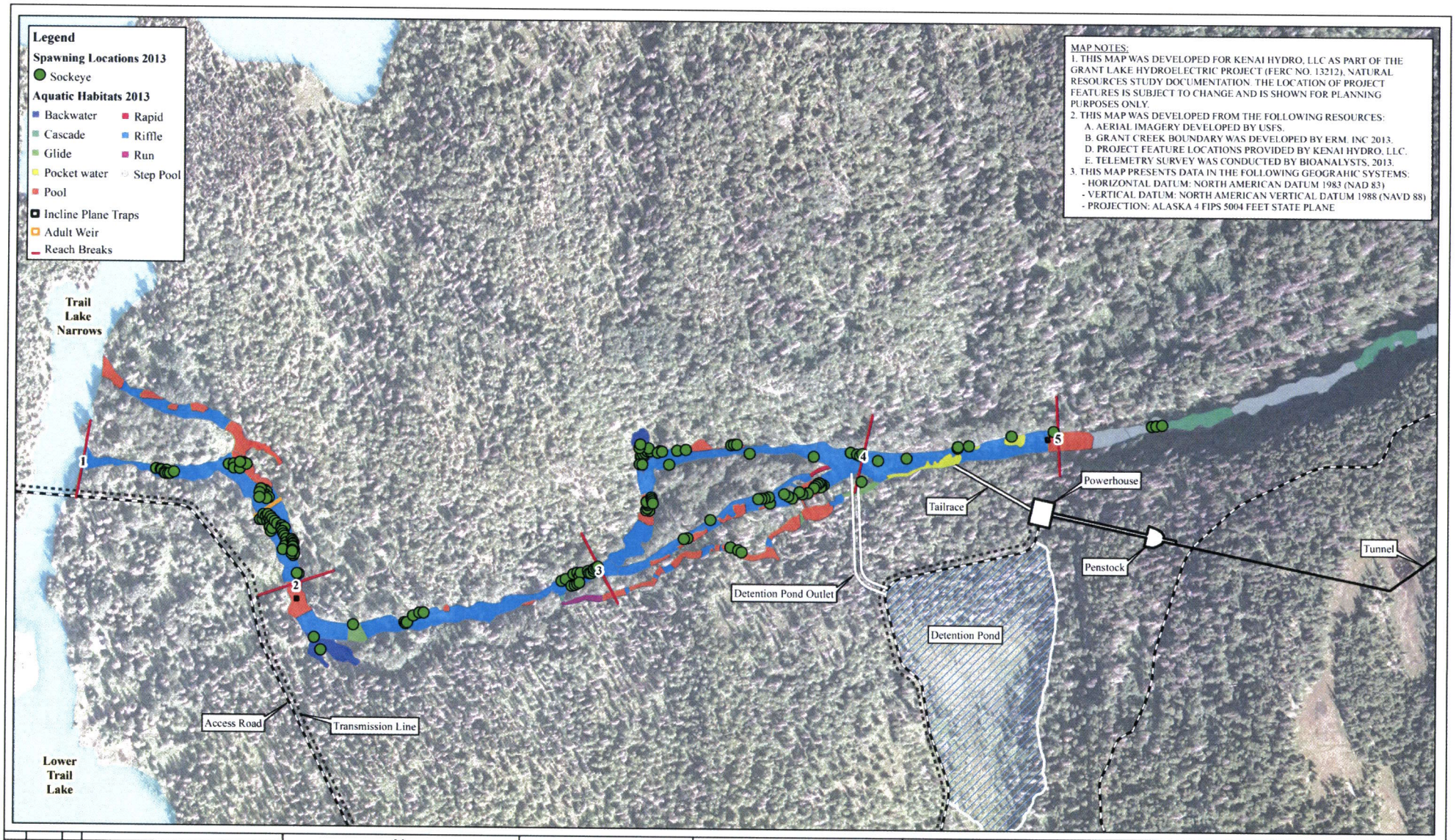
GRANT LAKE NATURAL RESOURCES STUDY

Figure 5.1-7
Spawning Locations
Coho Salmon

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED M. Miller
ISSUED DATE 2/25/2014

DRAWING 1 of 1

SCALE: 1:2,500



REV	DATE	BY	DESCRIPTION

N

Drawing Scale

0 100 200 400 Feet

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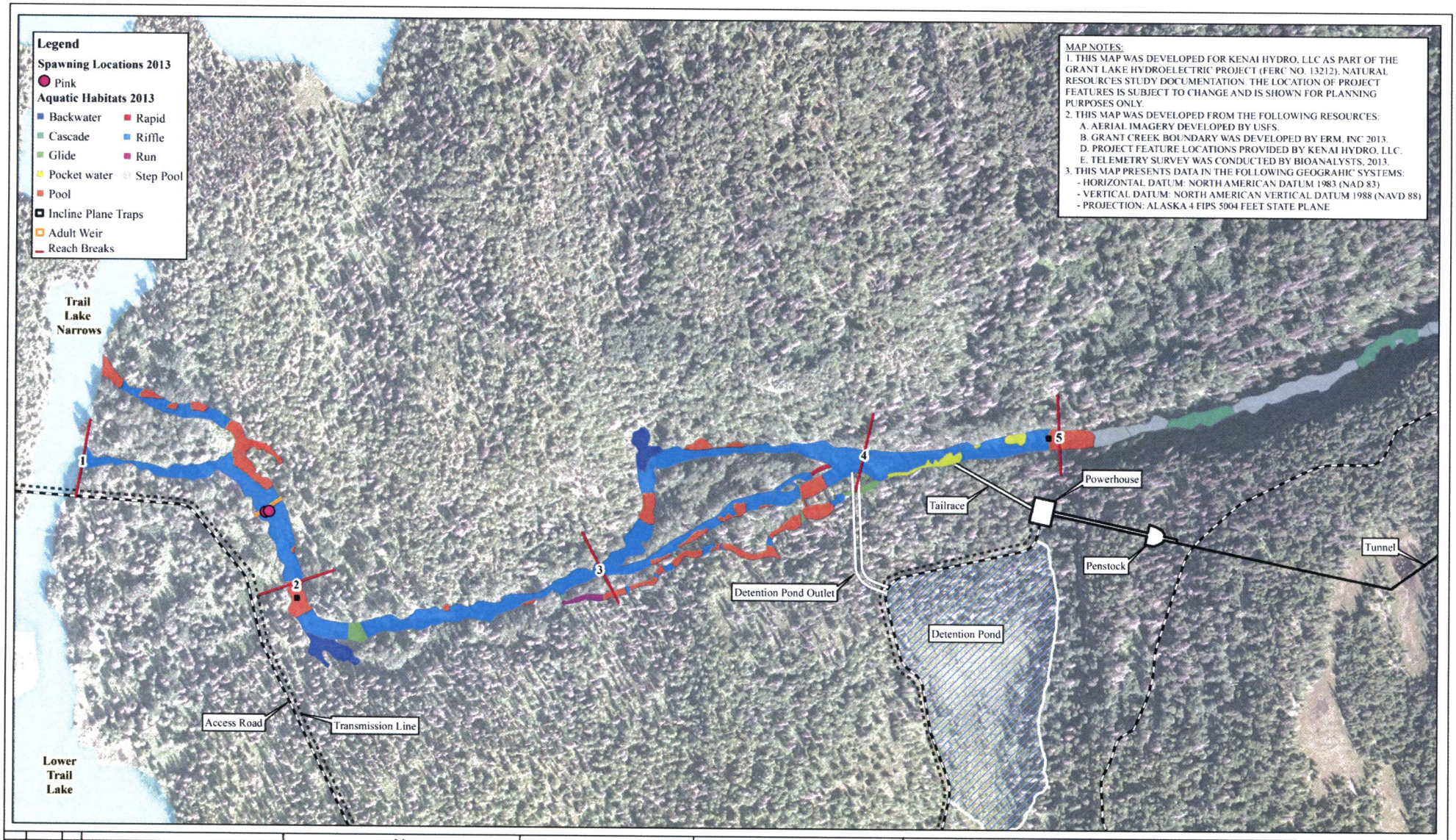
GRANT LAKE NATURAL RESOURCES STUDY

Figure 5.1-8
Spawning Locations
Sockeye Salmon

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED M. Miller
ISSUED DATE 2/25/2014

DRAWING
1 of 1

SCALE: 1:2,500



REV	DATE	BY	DESCRIPTION

N

Drawing Scale
0 100 200 400 Feet

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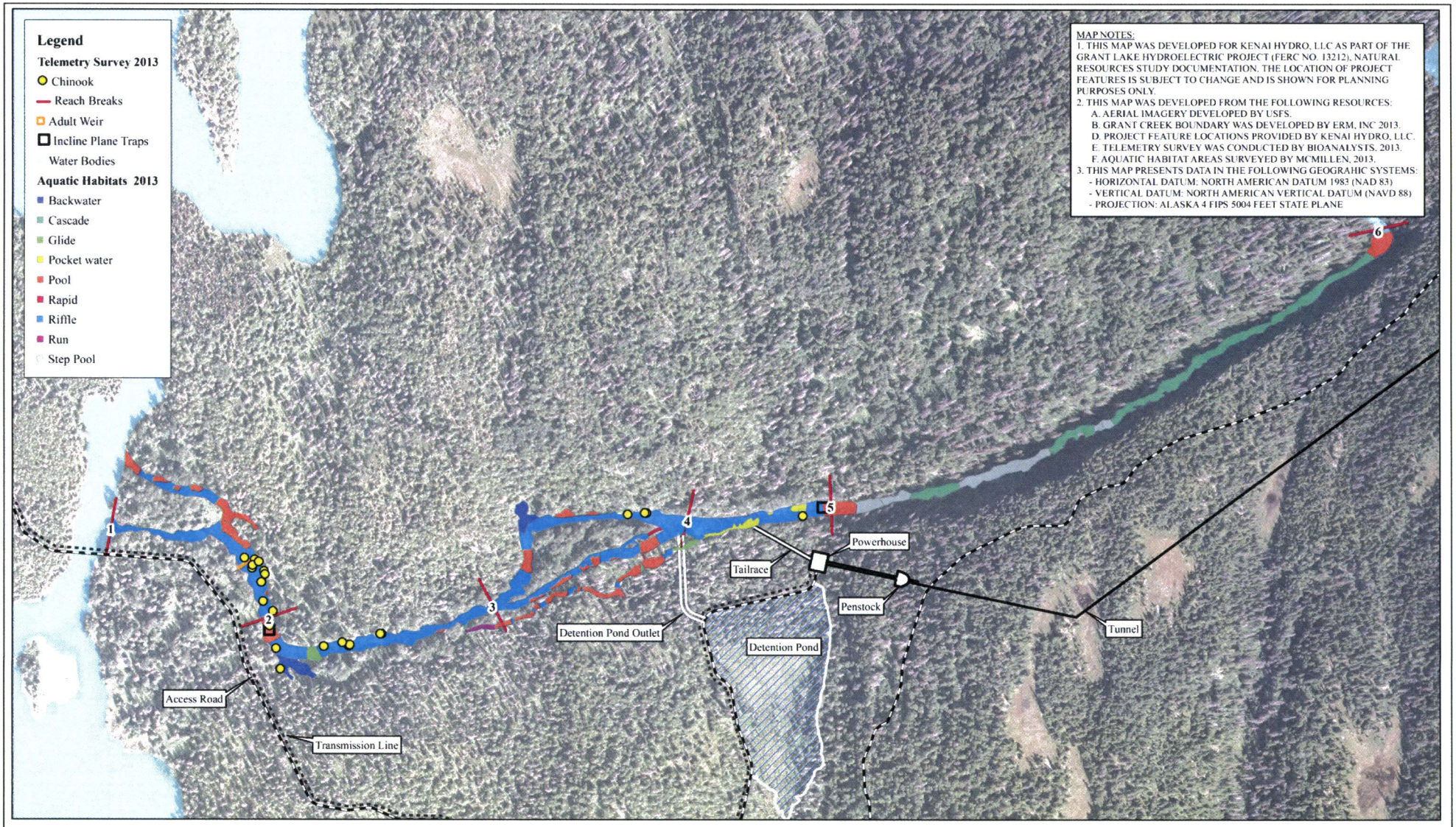
GRANT LAKE NATURAL RESOURCES STUDY

Figure 5.1-9
Spawning Locations
Pink Salmon

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED M. Miller
ISSUED DATE 2/25/2014

DRAWING
1 of 1

SCALE: 1:2,500



REV	DATE	BY	DESCRIPTION

N

Drawing Scale

0 150 300 600 Feet

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BOISE ID 83702

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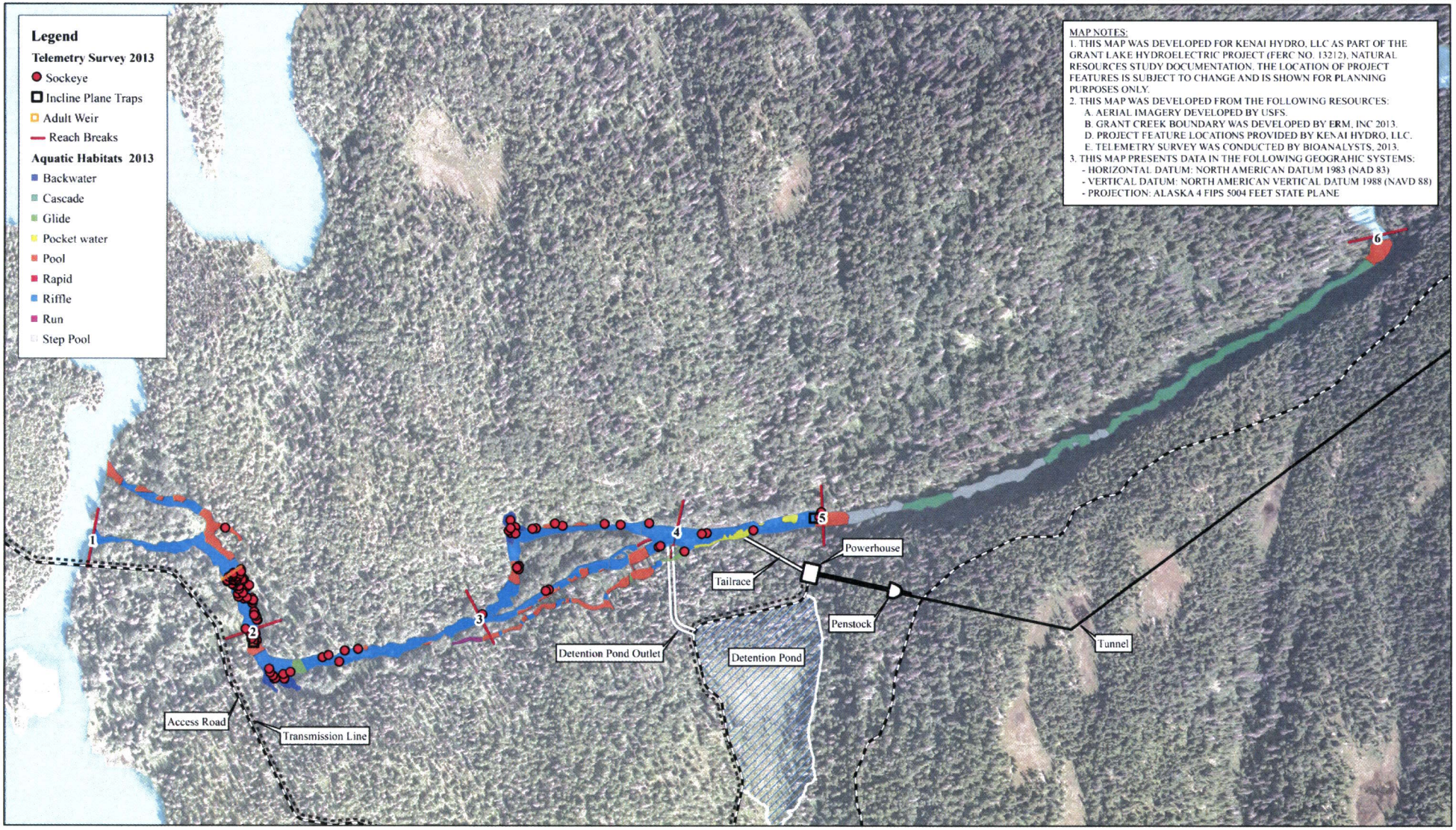
GRANT LAKE NATURAL RESOURCES STUDY

Figures 5.1-10
Telemetry Survey Data
Chinook Salmon

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED J. Stevenson
ISSUED DATE 2/25/2014

DRAWING
1 of 1

SCALE: 1:3,400



REV	DATE	BY	DESCRIPTION

N

Drawing Scale

0 150 300 600 Feet

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BOISE, ID 83702

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FAX 208 343 4214

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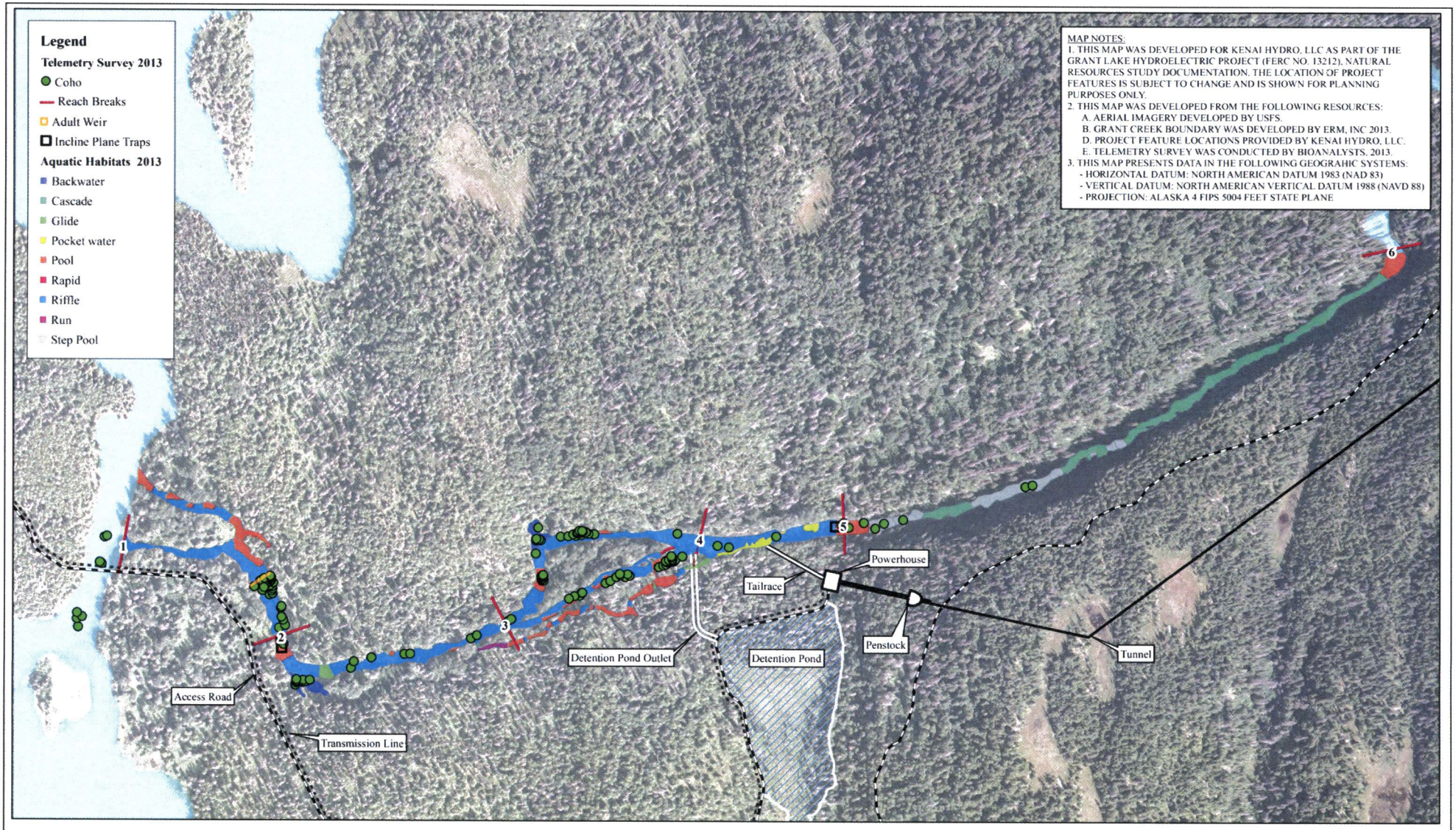
GRANT LAKE NATURAL RESOURCES STUDY

Figure 5.1-11
Telemetry Survey Data
Sockeye Salmon

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED J. Stevenson
ISSUED DATE 2/25/2014

DRAWING
1 of 1

SCALE: 1:3,400



REV	DATE	BY	DESCRIPTION

N

Drawing Scale: 0 150 300 600 Feet

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GRANT LAKE NATURAL RESOURCES STUDY

Figure 5.1-12
Telemetry Survey Data
Coho Salmon

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED J. Stevenson
ISSUED DATE 2/25/2014

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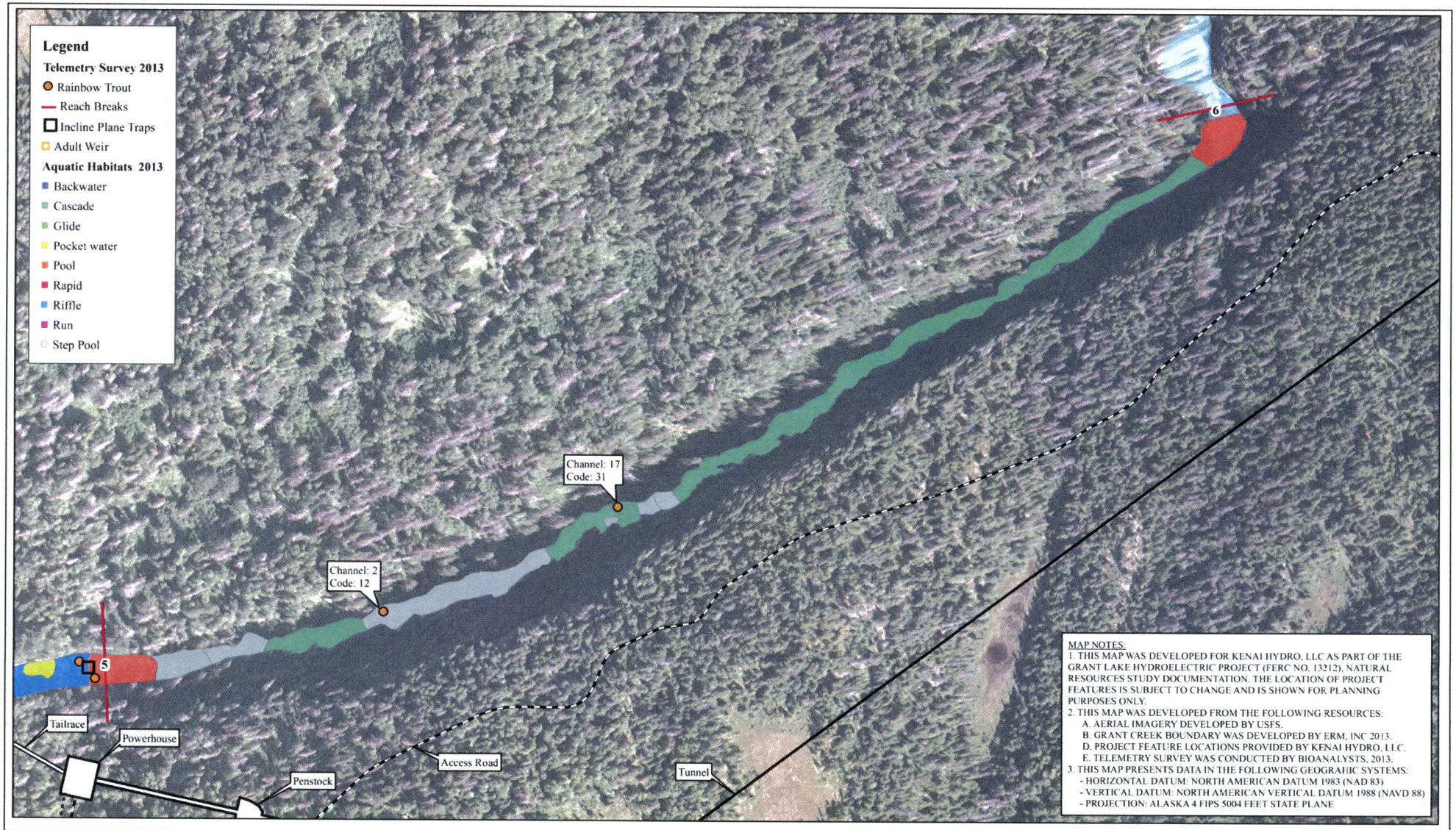
SCALE: 1:3,400



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   - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)
   - PROJECTION: ALASKA 4 FIPS 5004 FEET STATE PLANE

REV	DATE	BY	DESCRIPTION

N

Drawing Scale
0 50 100 200 Feet

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1401 SHORELINE DRIVE
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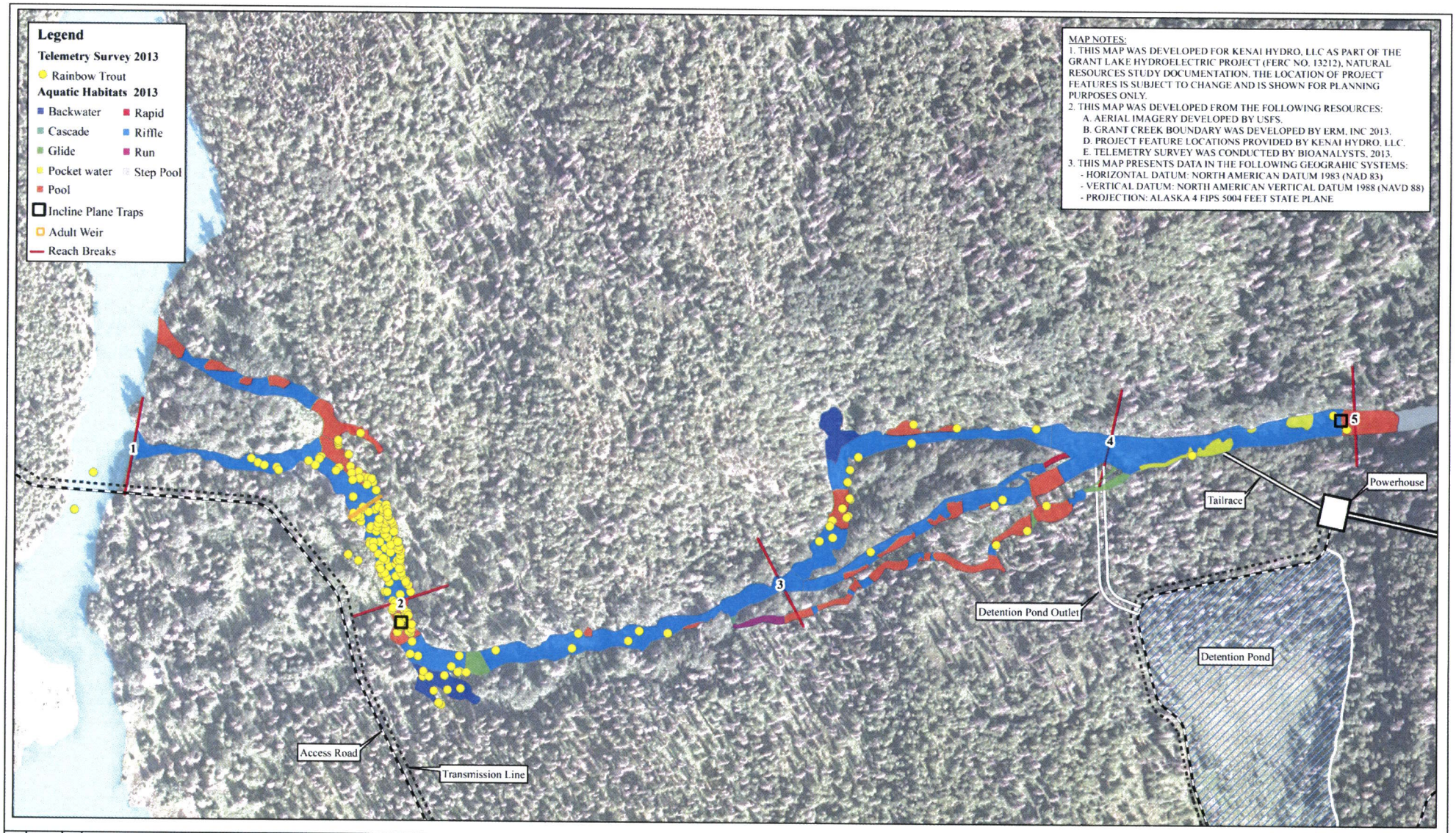
GRANT LAKE NATURAL RESOURCES STUDY

Figure 5.2-1
Telemetry Survey Data
Rainbow Trout - Reach 5

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED J. Stevenson
ISSUED DATE 2/25/2014

DRAWING
1 of 1

SCALE: 1:1,675



REV	DATE	BY	DESCRIPTION

N

Drawing Scale
0 75 150 300 Feet

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BOISE, ID 83702

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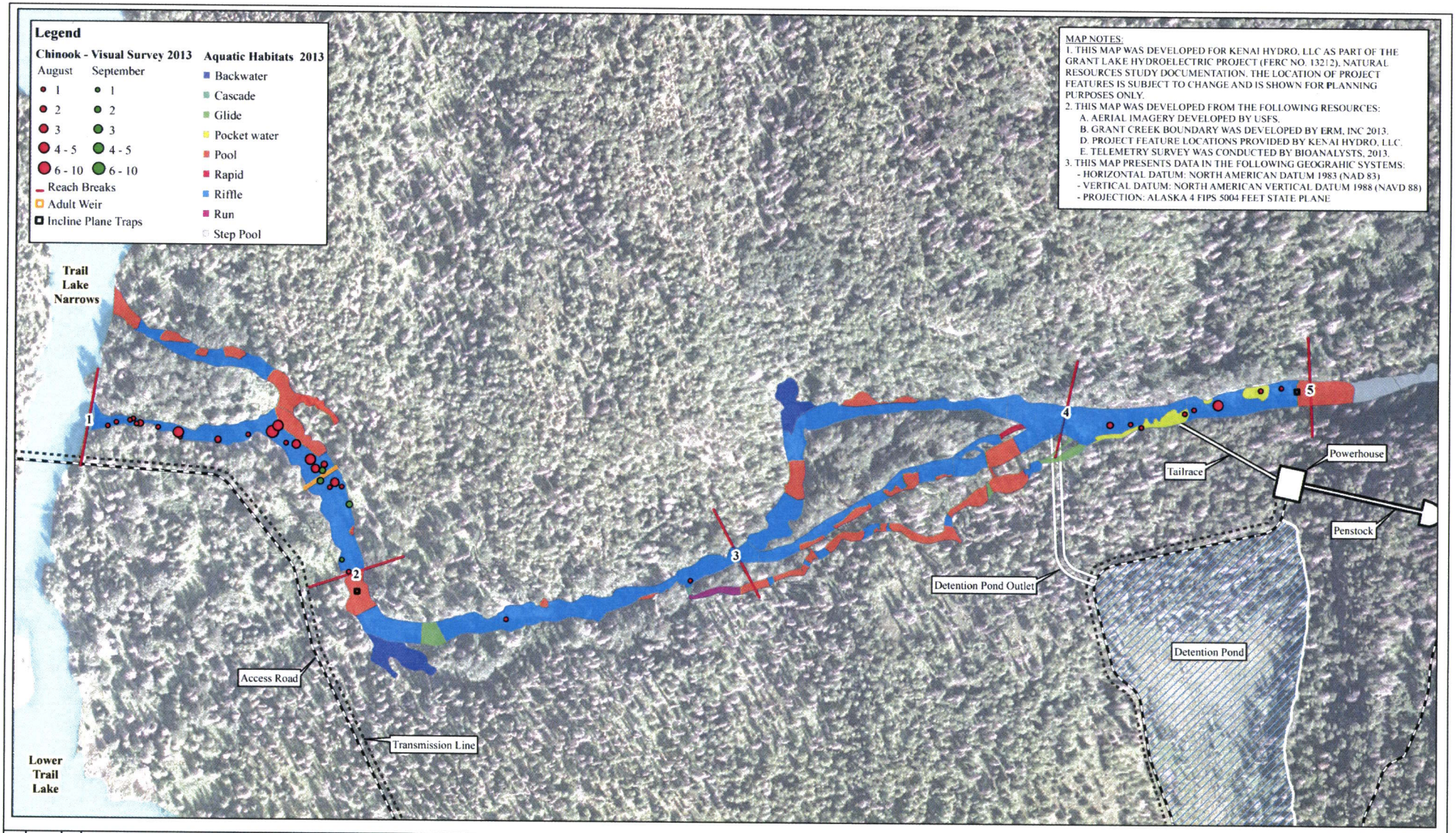
GRANT LAKE NATURAL RESOURCES STUDY

Figure 5.2-5
Telemetry Survey Data
Rainbow Trout Reaches 1 - 4

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED J. Stevenson
ISSUED DATE 2/25/2014

DRAWING
1 of 1

SCALE: 1:2,000



REV	DATE	BY	DESCRIPTION

N

Drawing Scale
0 100 200 400 Feet

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BOISE ID 83702
OFFICE 208 342 4214
FAX 208 342 4216

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Homer Electric Association, Inc.
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GRANT LAKE HYDROELECTRIC PROJECT - FERC PROJECT NO. 13212

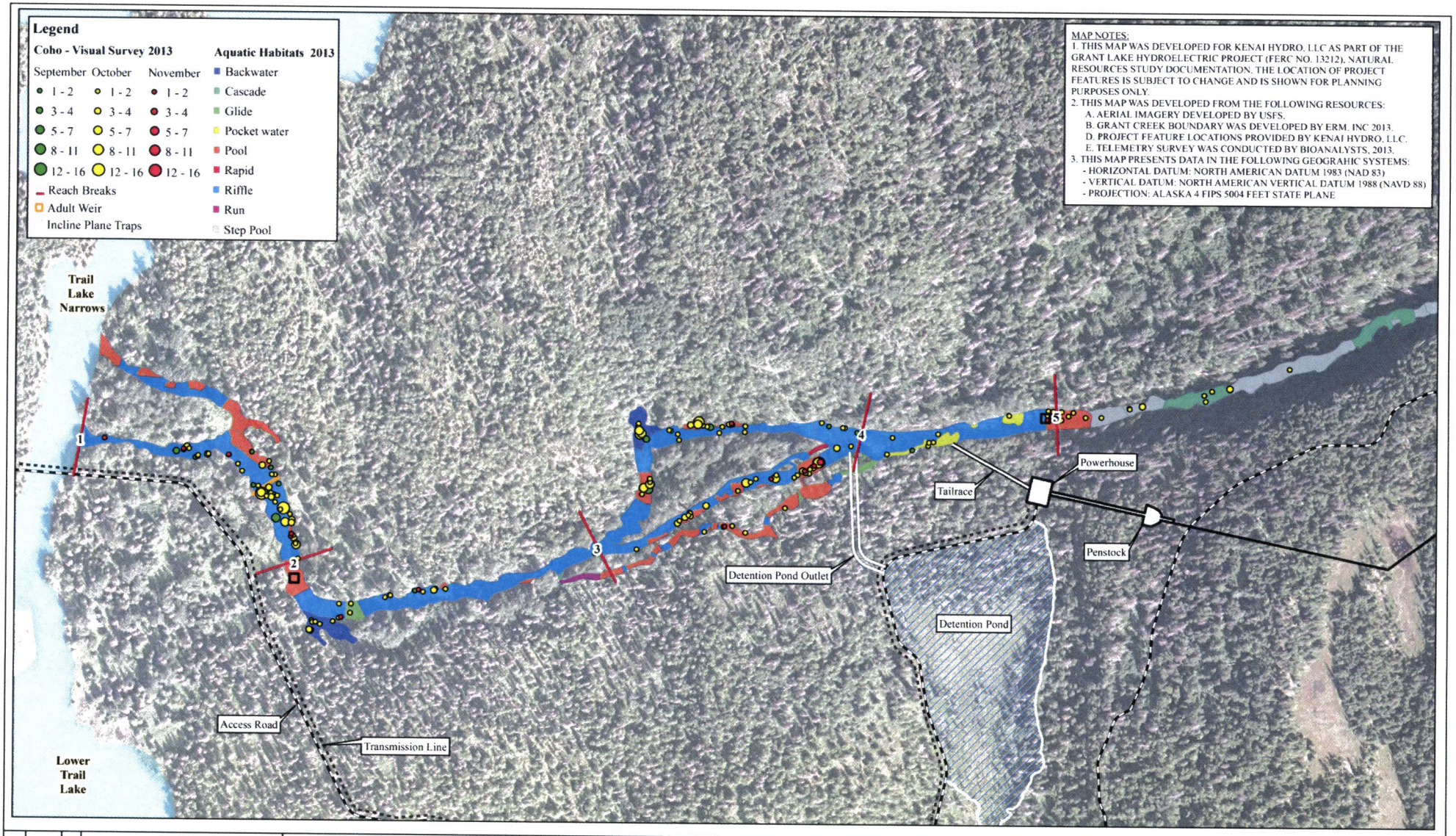
GRANT LAKE NATURAL RESOURCES STUDY

Figure 5.1-2
Visual Surveys
Chinook Salmon

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED M. Miller
ISSUED DATE 2/18/2014

DRAWING
1 of 1

SCALE: 1:2,000



REV	DATE	BY	DESCRIPTION

N

Drawing Scale

0 100 200 400 Feet

MCMILLEN, LLC

1401 SHORELINE DRIVE
BOISE ID 83702

OFFICE 208 342 4214
FAX 208 342 4218

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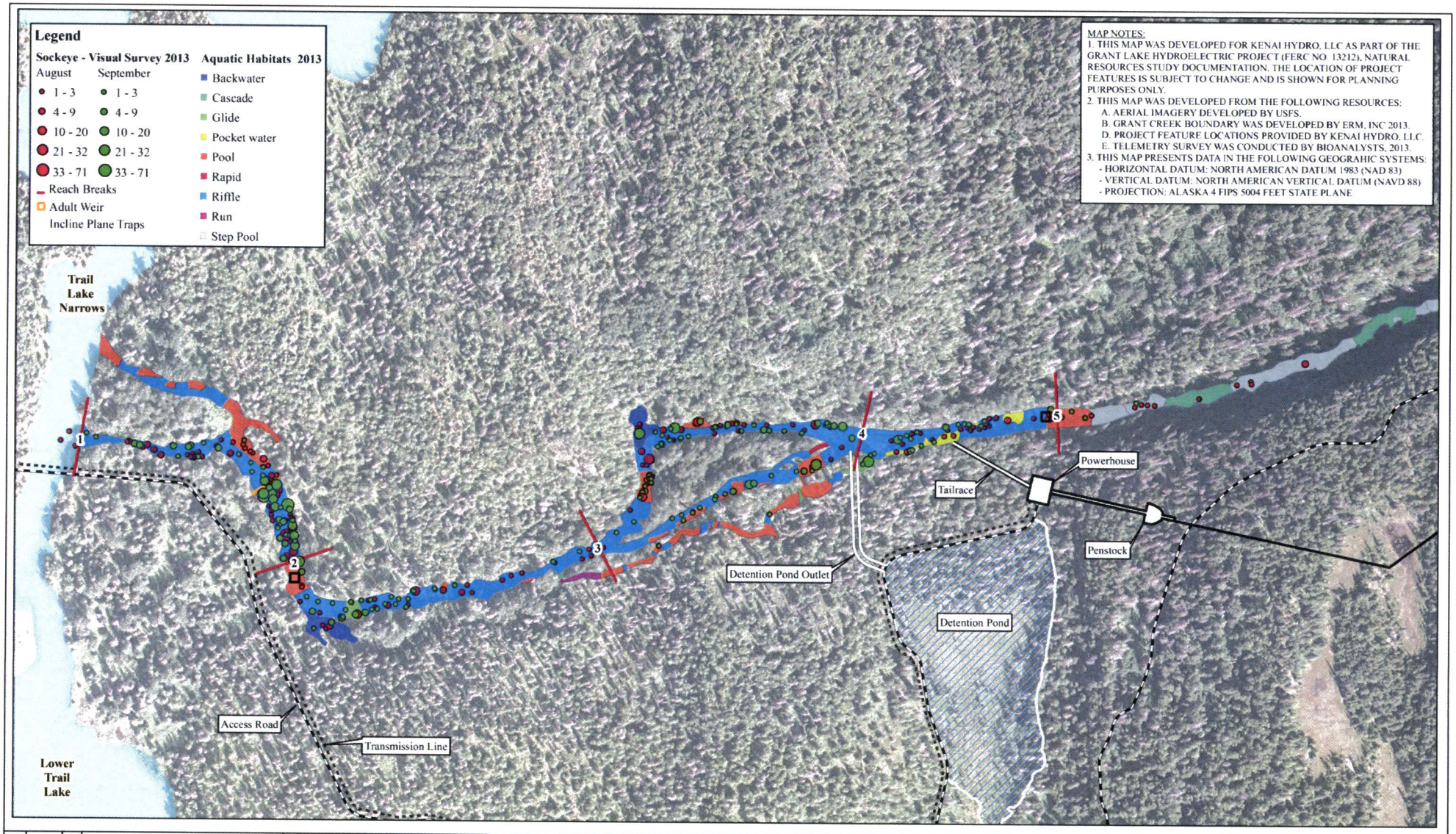
GRANT LAKE NATURAL RESOURCES STUDY

Figure 5.1-3
Visual Surveys
Coho Salmon

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED M. Miller
ISSUED DATE 2-18-2014

DRAWING 1 of 1

SCALE: 1:2,500



REV	DATE	BY	DESCRIPTION

N

Drawing Scale
0 100 200 400 Feet

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GRANT LAKE NATURAL RESOURCES STUDY

Figure 5.1-4
Visual Surveys
Sockeye Salmon

DESIGNED J. Woodbury
DRAWN J. Woodbury
CHECKED M. Miller
ISSUED DATE 2/18/2014

DRAWING
1 of 1

SCALE: 1:2,500