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

Nomination Form
Anadromous Waters Catalog

Region: **Southeastern** USGS Quad(s): **Juneau B-3**

Anadromous Waters Catalog Number of Waterway: **111-50-10100**

Name of Waterway: **Peterson Creek** Is this a USGS Name__X____ OR Local Name_____?

Type of Nomination (Circle One): Addition Deletion Correction Backup Information

For Office Use

Nomination # 120149	Fisheries Scientist	9/4/12 Date
Revision Year: 2013	Habitat Operations Manager	9/4/12 Date
Revision to: Atlas____ Catalog____ Both X	AWC Project Biologist	6/27/12 Date
Revision Code: D-1, E-9, C-9	JDG Cartographer	9.20.12 Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Chum salmon	7/18/2007, 7/26/2007, 8/2/2007	Yes; count = 44		Yes; count = 44	Yes
Coho salmon	9/30-10/14/2003, 10/6/2004, 7/18/-8/8/2007, 10/9/2007, 3/25/-3/27/2008, 5/27-5/29/2008	Yes; count = 247	Yes; count = 1604	Yes; count = 1851	Yes
Steelhead	4/29/2003, 5/21/2003, 5/27/2008	Yes; count = 37		Yes; count = 37	Yes
Dolly Varden	8/8/2007, 10/9/2007, 5/27/2008		Yes; count = 10	Yes; count = 294	Unknown
Rainbow trout	5/21/2003, 8/7-8/8/2007, 10/9/2007, 5/27/2008		Yes; count = 3,172	Yes; count = 3,201	Unknown
Stickleback	8/8/2007, 10/9/2007, 5/29/2008		Yes; count = 22	Yes; count = 23	Unknown

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. Shorten stream, add barrier, revise hydrography

Comments: All fish observations were associated with a DJ funded research project (Southeast Steelhead Habitat Carrying Capacity), exploring fish-habitat associations within Peterson Creek watershed on the mainland, north of Juneau. Fish observation methods consisted of snorkel surveys, small dip nets, and baited and sterilized Gee Minnow Traps (minimum 1 hr. soak). All fish observed were identified to the lowest taxon possible, counted, and grouped into size classes. Attachment pages/maps provide additional specific information regarding the presence of fish species, locations (lat/long), number and species captured, and additional info. REF num # 12-160

Name of Observer (please print): Kercia Schroeder

Signature: Kercia Schroeder Date: 3/20/2012

Agency: ADF&G, Sport Fish Division

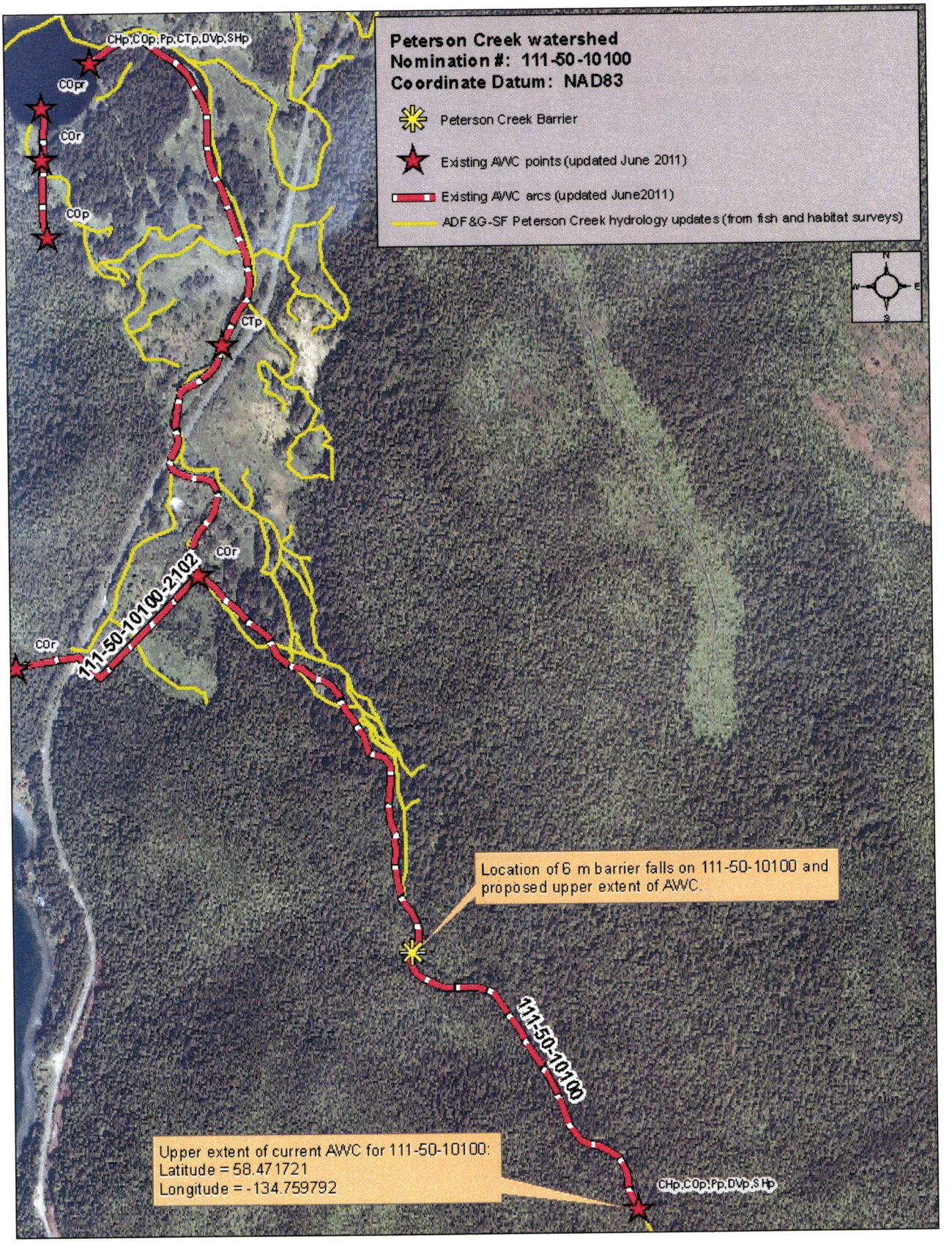
Address: Southeast Regional Office, 802 3rd Street, PO Box 110024, Juneau, AK 99811-0024

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 3/20/12 Revision

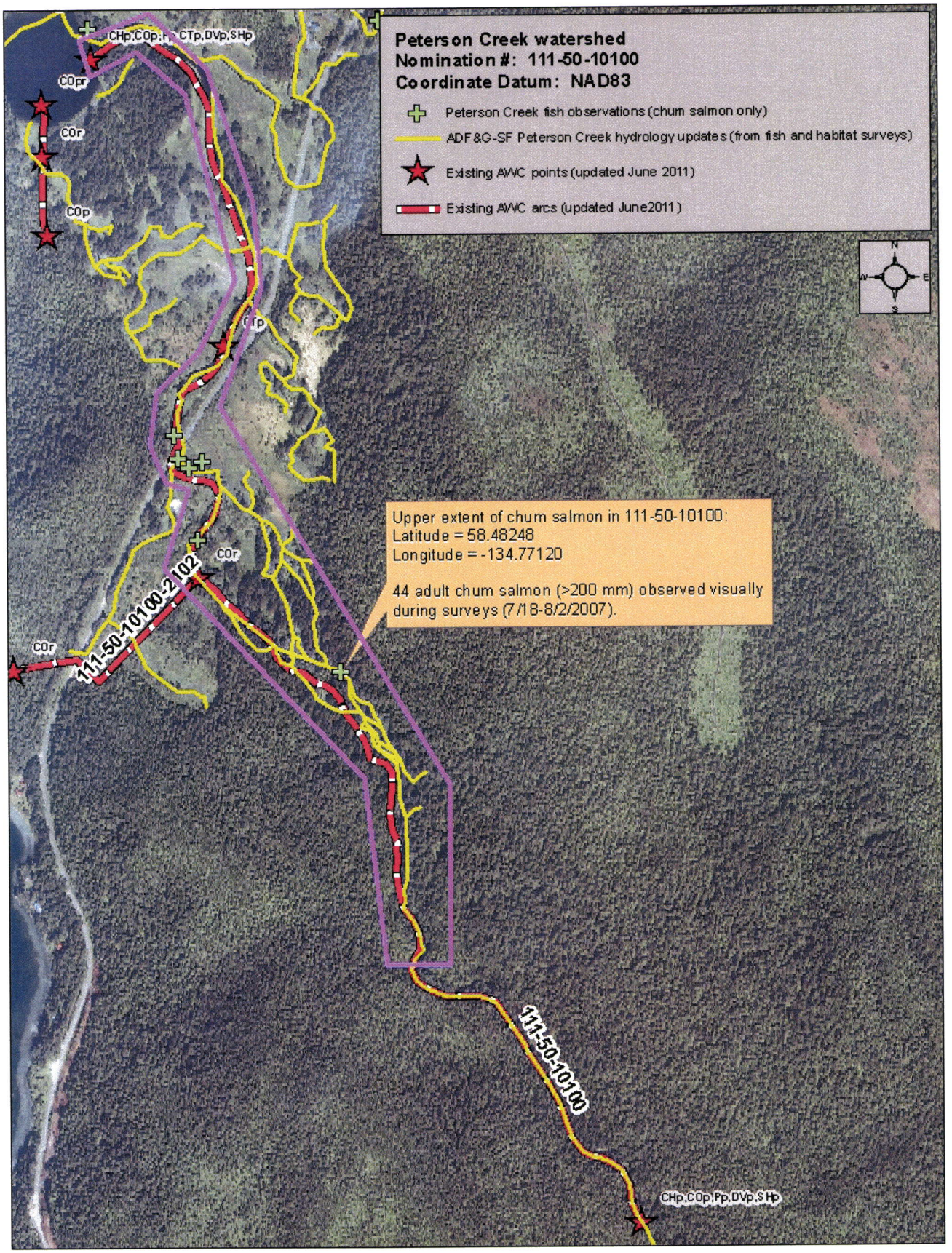
02/08

Attachment Pages and Supporting Information

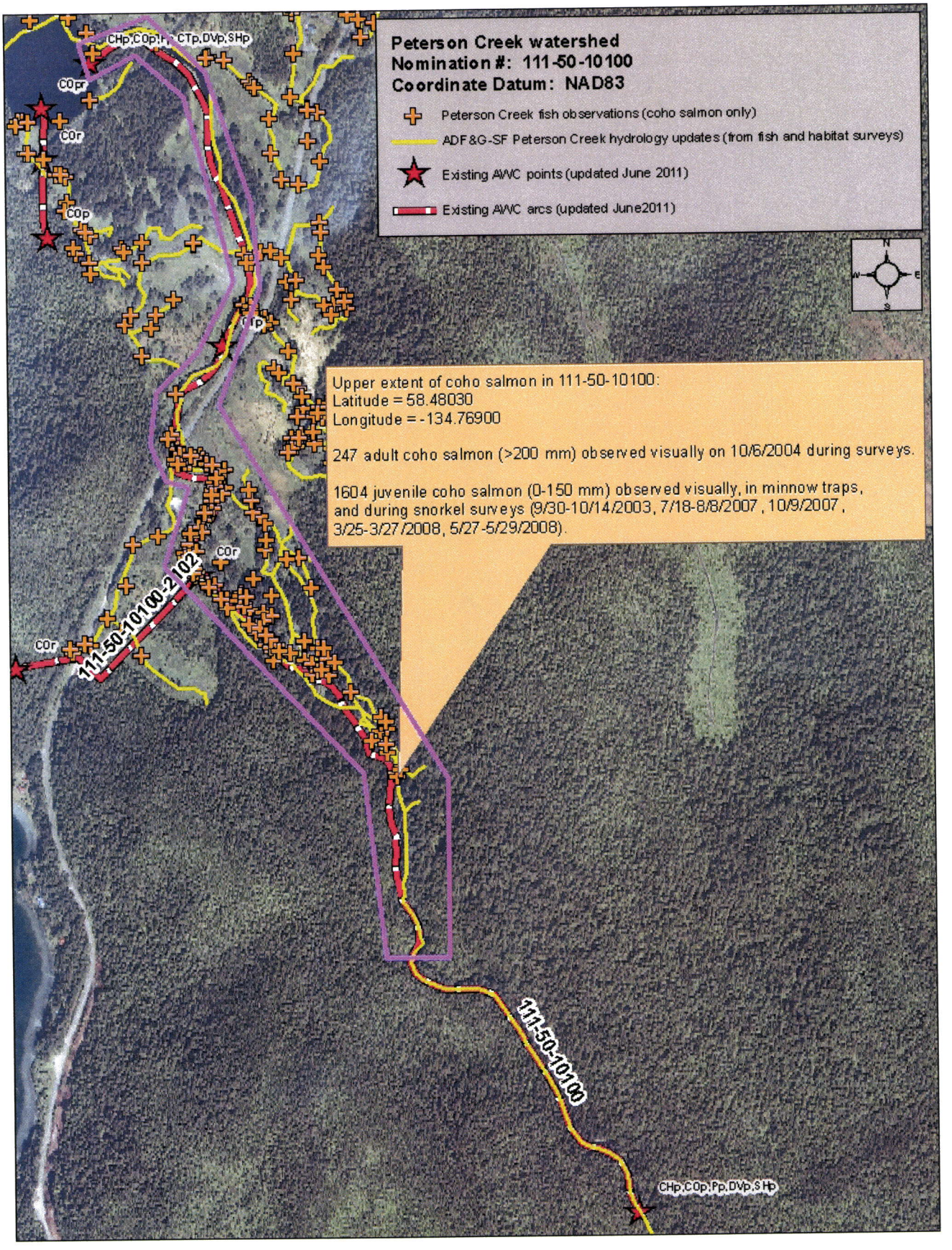


Map showing existing AWC points and arcs in Peterson Creek watershed (111-50-10100). We propose to change the upper extent of the current AWC arc for 111-50-10100 to the location of the 6 m barrier falls identified on the map. Map also shows updated stream hydrography based on 639 waypoints taken throughout the watershed during stream habitat surveys conducted for this project.

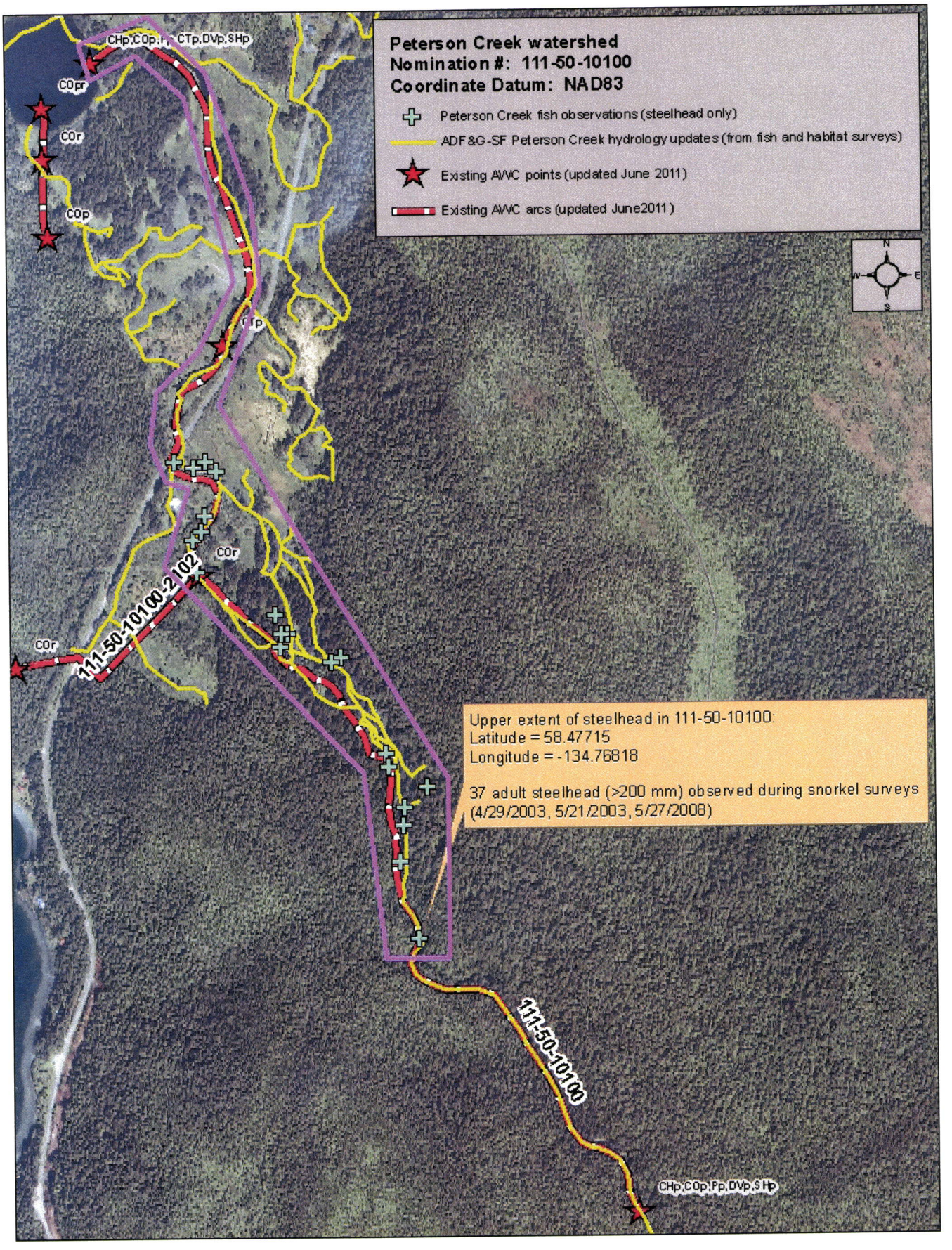
Photo of 6 m barrier falls at the proposed new upper extent for the AWC on 111-50-10100.



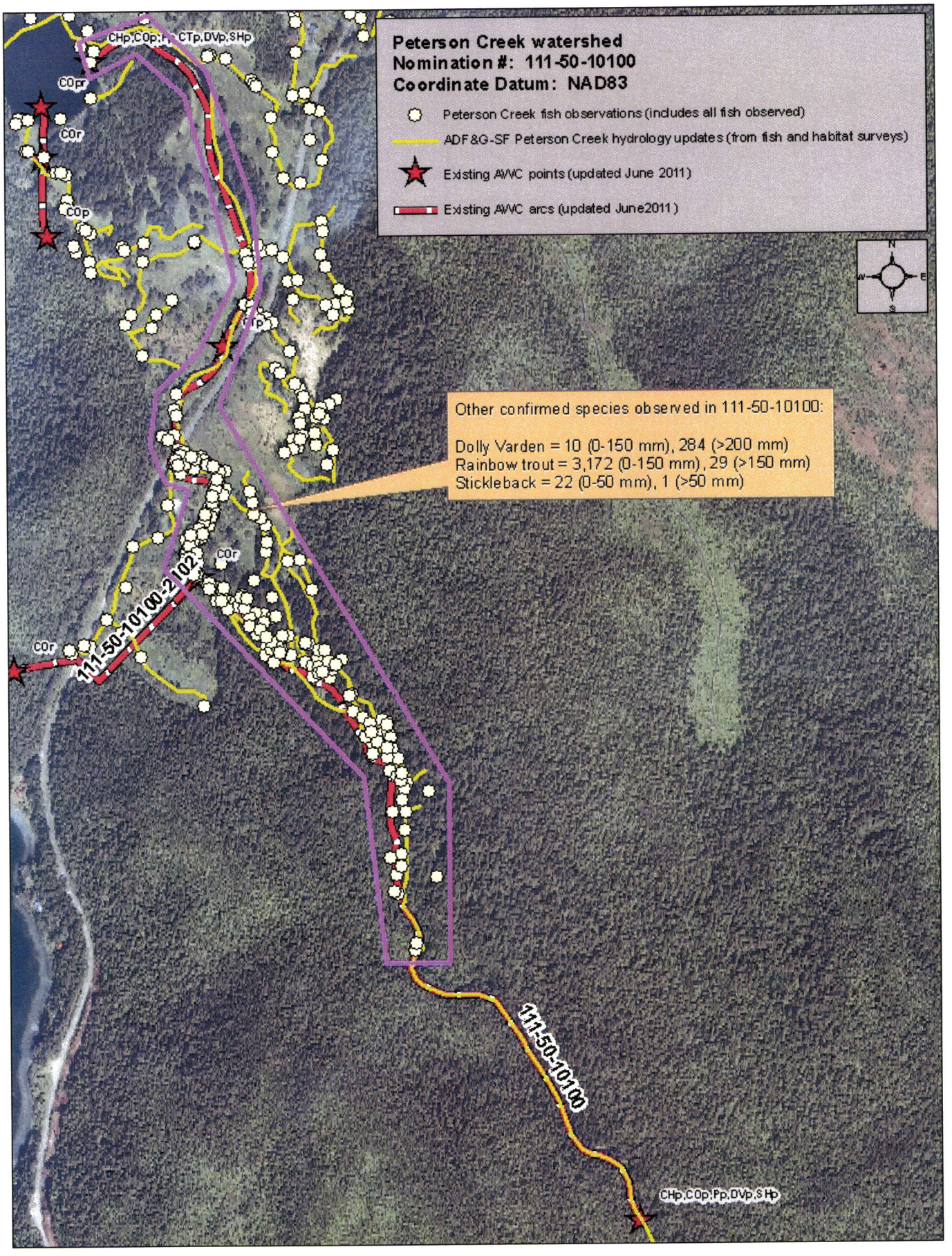
Map identifying locations where **chum salmon** were observed in 111-50-10100. These observations support the existing AWC for 111-50-10100; however, they do not extend the current extent for chum salmon in the existing AWC.



Map identifying locations where **coho salmon** were observed in 111-50-10100. These observations support the existing AWC for 111-50-10100; however, they do not extend the current extent for coho salmon in the existing AWC.



Map identifying locations where **steelhead** were observed in 111-50-10100. These observations support the existing AWC for 111-50-10100; however, they do not extend the current extent for steelhead in the existing AWC. Surveys stopped at a barrier falls (barrier height was approximately 6 m).



Map identifying locations where **other species** were observed in 111-50-10100. Surveys stopped at a barrier falls (barrier height was approximately 6 m).

GIS shapefile descriptions

Peterson Creek

- PetersonCreek_AllFishObservations.shp - point shapefile that includes all fish observations, for all species observed during stream habitat and fish use surveys conducted in this watershed.
- PetersonCreek_AWC_AnadromousFish.shp – point shapefile that includes all anadromous fish observations made during stream habitat and fish use surveys conducted in this watershed. Includes which AWC stream number the observation was associated with.
- PetersonCreek_Features_All.shp - point shapefile that includes all waypoints taken during stream habitat and fish use surveys in this watershed.
- PetersonCreek_AWC_ProposedNominations_2012_dissolve.shp – polyline shapefile that includes updated stream hydrography based on stream habitat and fish use surveys conducted in this watershed and is clipped to the proposed AWC extent based on observations. Also includes the AWC number associated with each stream arc.
- PetersonCreek_UpperExtentWaypoints.shp – point shapefile that includes the upper extent of anadromous fish observations made on each proposed AWC stream arc.
- PetersonCreekBarrier_NAD83.shp - point shapefile that includes the mainstem barrier where we propose to have the upper extent of the AWC moved to.

Ratz Creek:

- OdysseyDB_FOP_Updated_2012_Ratz_2.shp - point shapefile that includes all fish observations, for all species observed during stream habitat and fish use surveys conducted in this watershed.
- RatzCreek_AWC_AnadromousFish.shp - point shapefile that includes all anadromous fish observations made during stream habitat and fish use surveys conducted in this watershed. Includes which AWC stream number the observation was associated with.
- OdysseyDB_FEATS_Updated_2012_Ratz.shp – point shapefile that includes all waypoints taken during stream habitat and fish use surveys in this watershed.
- RatzCreek_AWC_ProposedNominations_2012_clipped.shp - polyline shapefile that includes updated stream hydrography based on stream habitat and fish use surveys conducted in this watershed and is clipped to the proposed AWC extent based on observations. Also includes the AWC number associated with each stream arc.
- RatzCreek_UpperExtentWaypoints.shp – point shapefile that includes the upper extent of anadromous fish observations made on each proposed AWC stream arc.

Sashin Creek:

- SAS19_FOP_All.shp - point shapefile that includes all fish observations, for all species observed during stream habitat and fish use surveys conducted in this watershed.
- SAS_Features_All.shp - point shapefile that includes all waypoints taken during stream habitat and fish use surveys in this watershed.

Revise hydrography (arc2013) and shorten
111-50-10100, add barrier