



December 21, 2012

Ms. Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First St. N.E.
Washington, DC 20426

**Subject: Spokane River Project, FERC Project No. 2545
 Submittal of the Annual 2012 Bald Eagle Monitoring Report
 as required by FERC's May 11, 2011 Order Approving Bald Eagle
 Management Plan Pursuant to Article 414**

Dear Secretary Bose:

In accordance with the Federal Energy Regulatory Commission's (FERC) June 18, 2009 Spokane River Hydroelectric Project (No. 2545) License, Article 414, Avista developed and submitted a Bald Eagle Management Plan (Plan) for FERC review and approval. FERC approved the Plan in its May 11, 2011 Order Approving Bald Eagle Management Plan Pursuant to Article 414.

The Plan requires Avista to submit an annual report that summarizes the activities that it implemented during 2012 to monitor Bald Eagles. The report, which is to be submitted to the U.S. Fish and Wildlife Service, Idaho Fish and Game, the Washington Department of Fish and Wildlife, and to FERC, discusses annual occupancy and productivity, and an overview of the surveys for new nests.

With this, Avista is submitting the enclosed 2012 Bald Eagle Monitoring Report for your records. Please feel free to call either me or David Armes if you have questions regarding the annual report. I can be reached at (509) 495-4998 and David can be reached at (509) 495-2796.

Sincerely,

Elvin "Speed" Fitzhugh
Spokane River License Manager

Enclosure

cc: Erin Britton-Kuttel, USFWS
 Rick Donaldson, USFWS
 Mary Terra-Berns, IDFG
 Graham Simon, WDFW



December 24, 2012

Mary Terra-Berns
Idaho Department of Fish and Game
2750 Kathleen Ave.
Coeur d'Alene, ID 83814

**Subject: Spokane River Project, FERC Project No. 254
Submittal of the Annual 2012 Bald Eagle Monitoring Report
As required by FERC's May 11, 2011 Order Approving Bald Eagle
Management Plan Pursuant to Article 415**

Dear Mary:

In accordance with the Federal Energy Regulatory Commission's (FERC) June 18, 2009 Spokane River Hydroelectric Project (No. 2545) License, Article 414, Avista developed and submitted a Bald Eagle Management Plan (Plan) for FERC review and approval. FERC approved the Plan in its May 11, 2011 Order Approving Bald Eagle Management Plan Pursuant to Article 414.

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Sincerely

A handwritten signature in cursive script that reads "Speed Fitzhugh".

Elvin "Speed" Fitzhugh
Spokane River License Manager

Enclosure

Cc: David Armes, Avista
Erin Britton-Kuttel, USFWS
Rick Donaldson, USFWS
Graham Simon, WDFW



December 24, 2012

Erin Britton-Kuttel
Eastern Washington Field Office
U.S. Fish and Wildlife Service
11103 E. Montgomery Dr.
Spokane Valley, WA 99206

**Subject: Spokane River Project, FERC Project No. 254
Submittal of the Annual 2012 Bald Eagle Monitoring Report
As required by FERC's May 11, 2011 Order Approving Bald Eagle
Management Plan Pursuant to Article 415**

Dear Erin:

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Elvin "Speed" Fitzhugh
Spokane River License Manager

Enclosure

Cc: David Armes, Avista
Rick Donaldson, USFWS
Mary Terra-Berns, IDFG
Graham Simon, WDFW



December 24, 2012

Graham Simon
Renewable Energy Habitat Biologist
Washington Department of Fish and Wildlife
3860 Chelan Hwy N.
Wenatchee, WA 98801

**Subject: Spokane River Project, FERC Project No. 254
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Dear Graham:

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Elvin "Speed" Fitzhugh
Spokane River License Manager

Enclosure

Cc: David Armes, Avista
Erin Britton-Kuttel, USFWS
Rick Donaldson, USFWS
Mary Terra-Berns, IDFG



December 24, 2012

Rick Donaldson
Northern Idaho Field Office
U.S. Fish and Wildlife Service
11103 E. Montgomery Dr.
Spokane Valley, WA 99206

**Subject: Spokane River Project, FERC Project No. 254
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Dear Rick:

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Spokane River License Manager

Enclosure

Cc: David Armes, Avista
Erin Britton-Kuttel, USFWS
Mary Terra-Berns, IDFG
Graham Simon, WDFW

AVISTA CORPORATION

2012

BALD EAGLE MONITORING REPORT

ARTICLE 414

SPOKANE RIVER HYDROELECTRIC PROJECT

FERC PROJECT No. 2545

Prepared By:

Avista Corporation

December 2012

Executive Summary

Article 414 of the Spokane River Project License (Project) required the development of a Bald Eagle Management Plan (Plan), which was approved by the Federal Energy Regulatory Commission (FERC), Project No. 2545, on May 11, 2011. It included: (i) bald eagle (*Haliaeetus leucocephalus*) nests associated with waters impounded by the Project; (ii) a framework for annual occupancy and productivity monitoring (Monitoring); (iii) annual surveys to identify new nests (Surveys); (iv) investigations to identify bald eagle nesting territories including primary use areas, home ranges, and key use sites (Investigations); and (iv) reporting requirements. This report summarizes the 2012 results of the Plan implementation.

Occupancy and Productivity Monitoring. Nineteen nests in 19 territories were monitored; 100% were occupied. Seventeen nests successfully fledged 19 young. Two nests lacked fledging data. The average number of young per nests was 1.12. The average number of young per successful nest was 1.73. Failure rate was 35%. Occupancy and productivity percentages of the Project nest territories are similar to previous studies conducted by IDFG from 1979 to 2006 in north Idaho and Montana (Sallabanks 2006).

Surveys to Identify New Nests. Nine new nests were located during surveys to identify new nests. Four new alternative nests in existing territories and five new nests in new territories. All new nests will be included in monitoring efforts starting in 2013 and in subsequent years.

Nesting Territory Investigations. This year, 2012, is the first nesting season of the required two seasons of habitat-use investigations. The two nest territories investigated in 2012 were within the Project planning area identified in the Plan. Therefore, a site-specific management Plan for these two territories will be completed in 2013. The results of the habitat-use investigations will be reported within the site-specific management plans.

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Acronyms and Abbreviations

Avista	Avista Corporation
DEA	David Evans and Associates, Inc.
E	east
FERC	Federal Energy Regulatory Commission
GIS	geographic information system
HED	hydroelectric developments
IDFG	Idaho Fish and Game
PLAN	Bald Eagle Management Plan
N	north
Project	FERC Project No. 2545
RM	River Mile
S	south
USFWS	US Fish and Wildlife Service
W	west
WDFW	Washington Department of Fish and Wildlife

1. Introduction

On June 18, 2009, the Federal Energy Regulatory Commission (FERC) issued a new license for Avista Corporation's (Avista) Spokane River Project (Project), FERC Project No. 2545, for a 50-year license term. The Project consists of five hydroelectric developments (HED) located on the Spokane River in northern Idaho (in Kootenai and Benewah Counties) and eastern Washington (in Spokane, Stevens, and Lincoln Counties). The FERC licensed Project boundary generally follows the normal full pool elevation of the impoundment associated with each HED. The five HEDs, from upstream to downstream, include:

- Post Falls (River Mile [RM] 102)
- Upper Falls (RM 74.2)
- Monroe Street (RM 74)
- Nine Mile (RM 58)
- Long Lake (RM 34)

Article 414 of the License required the development of a Bald Eagle Management Plan (Plan) which was approved by FERC on May 11, 2011, and included: (i) bald eagle (*Haliaeetus leucocephalus*) nests associated with waters impounded by the Project; (ii) a framework for annual occupancy and productivity monitoring (Monitoring); (iii) annual surveys to identify new nests (Surveys); (iv) investigations to identify bald eagle nesting territories including primary use areas, home ranges, and key use sites (Investigations); and (iv) reporting requirements. The 2010 Plan identified 19 nesting territories associated with waters impounded by the Project; sixteen in Idaho and three in Washington (Golder Associates, Inc. 2010).

Avista hired David Evans and Associates, Inc. (DEA) to assist with implementation of the Plan. This annual monitoring report includes the results for implementation during the initial year of the Plan. Original and electronic copies of all field forms, photographs, geographic information system (GIS) databases, and reports are on file at Avista. Copies are retained by DEA.

2. Occupancy and Productivity Monitoring

2.1 METHODS

Location of Territories Monitored. Nineteen nesting territories that were associated with waters impounded by the Project were monitored in 2012 to determine annual occupancy and productivity. *Figures 1 and 2* show the locations of the Project territories that were monitored. Four new alternative nest locations for these nesting territories were located in 2012 and were monitored.

Dates of Monitoring. Monitoring occurred between February 1 and July 31. The methods described below follow those detailed in the Plan with a minor adjustment that extended the initial observation period for one month due to persistent inclement weather conditions that grounded the aerial survey. Supplemental efforts included additional observation dates and extending the observation period to midday for aerial and watercraft monitoring.

Each known nest was observed a minimum of three occasions during the nesting season to determine occupancy and productivity. The first observation was an initial determination of occupancy that occurred between February 1 and April 15; the second observation, an update of nesting status, occurred between April 1 and June 15; the third observation, a determination of productivity, occurred between June 15 and July 31.

Observations were made from first light to midday. Observations required up to one and one-half hours determining occupancy and productivity. High-resolution optics were used to facilitate observations. Observations were conducted from aircraft, watercraft, land vehicle, and on foot. Land-based observations took place from a vehicle whenever possible to avoid disturbance to eagles. Nests approached on foot, took place with the observer remaining at least 330 feet from the nest and/or hidden from view. Observers retreated if eagles display agitated behavior. During each visit, recorded data pertinent to the determination of nest occupancy and productivity, included:

- Nest condition
- Nest repair or construction
- Presence and behavior of adults
- Adult incubation or brooding posture
- Number of eggs
- Number and age of young using a standardized aging key based on plumage, size, and posture (Carpenter 1990)

Based on the results of observations and professional judgment, one of the following occupancy determinations was made for each monitored territory:

1. Active: Two adults present in a territory containing a nest during the nesting season, or one adult observed incubating with young, or near a known nest. “Active” is a transitional designation. A nest that is deemed “Active” at the beginning of the nesting season will receive a determination of “Successful”, “Active, Not Successful”, “Nest Abandoned”, or “Active, Success Unknown” at the completion of monitoring.

Active Successful: One or more young fledged from the nest. When the “Successful” determination is used, the annual report includes the number of eagles fledged from the nest.

Active, Not Successful: An occupied territory where no young were produced. When the “Active, Not Successful” determination is used, observers try to determine the cause of reproductive failure where possible, and note this cause in the annual report.

Nest Abandoned: Bald eagles were observed in the nesting territory, but deserted or stopped attending a nest, and did not subsequently return and successfully raise young in a nest for the duration of the breeding season. When the “Nest Abandoned” determination is used, observers document activities and/or habitat alterations that may have contributed to abandonment of the nest. The annual report includes information on the nature, extent, and location of such activities or habitat alterations.

Active, Success Unknown: Occupied territory not adequately monitored to determine success. The use of this determination will require an explanation as to why the territory was not adequately monitored to determine success. The annual report includes recommendations to rectify inadequacies in subsequent monitoring.

2. Not Active: No nesting activity and no adults in a nesting territory. When the “Not Active” determination is used, observers recorded any modifications or disturbances to habitat that have occurred near the nest site and the distance to those disturbances. The nature, extent, and proximity of habitat modifications/disturbances should be included in the annual report.

3. Status Unknown: Territory not checked or incompletely checked to determine occupancy. The use of the “Status Unknown” determination will require an explanation of why the territory was not checked or why observations were not adequate to determine occupancy. The annual report includes recommendations to allow for adequate observations during subsequent monitoring (Golder Associates, Inc. 2010).

All occupancy and productivity data was recorded on standardized data forms. Copies of these forms are included in *Appendix A*.

2.2 RESULTS

Occupancy and Productivity Determination. The 2012 occupancy and productivity monitoring of nesting territories in Project waters produced the following results:

- Occupancy: 100%. All 19 known nesting territories were monitored; all 19 nesting territories were occupied and had active nests.
- Project area productivity: Seventeen active nests fledged 19 young. The average number of young per Project nest was 1.12.
- Successful nest productivity: Eleven active nests of 17 were successful (65%) The average number of young per successful nest was 1.73. Two nests were active but the success was unknown.
- Failure rate: 35%. Six of 17 active nests were not successful.
- Individual territories productivity will be determined with subsequent yearly monitoring.

The occupancy and productivity data of the nesting territories was analyzed and the results are summarized in *Table 1*.

2.3 DISCUSSION

Factors affecting Occupancy and Productivity. The following section discusses the potential disturbance factors that may have affected the occupancy and productivity of the nesting territories. They are ordered according to the final nesting territory determination.

Active, Successful. Eleven of the 17 nests were active, successful. These occupancy and productivity percentages of the Project nest territories are similar to previous studies conducted by IDFG from 1979 to 2006, in Idaho as a whole and also specifically in the Idaho Eagle Management Area 7 of north Idaho and Montana. That area included some of these Project nest territories (Sallabanks 2006). According to the Plan, productivity results assume the young noted in the nest during the last observation have successfully fledged. However, the pre-fledging period is considered a very sensitive period. Nestlings at this stage are developing flight abilities, may flush from the nest prematurely, and perish due to disruption (USFWS 2012). Therefore, actual numbers of fledglings and percentages may be the same or lower.

Active, Success Unknown. Two nests, Blessing Slough and Rainey Hill were active and occupied but with unknown success.

Blessing Slough nest 07I07601 monitoring lacked data from April 25 to July 13. At the April 25 date during aerial survey, an adult was in incubating posture. Land access for observation vantage points for this remote nest was limited and became fully obscured by the foliage of the cottonwood stand. However, a new vantage point with watercraft access was located on July 13. At the July date, no adults or nesting activity indicating nesting success or fledging was present, although an early fledging may have occurred by mid July. The new access point will be utilized in subsequent monitoring efforts.

Rainy Hill nest 07I07401 was occupied by a Canada goose on April 5, abandoned by bald eagles. New alternative nest 07I07402 was located during April 10 and April 25 aerial surveys. Both dates had an adult perched at the nest and with two eggs and/or early nestlings. The new nest monitoring lacked data from May 25 to July 13 because a vantage point from land could not be located. A new vantage point by watercraft access, however, was located on July 13. At the July date, no adults or nesting activity indicating nesting success or fledging was observed, though fledging may have occurred by mid July. The new watercraft access point will be utilized in subsequent monitoring efforts.

Although both of these nests may have had potential for an early fledge, it is not assumed that these nests were successful.

Active, Not Successful: Out of 17 active and occupied nests, six nests were not successful. Potential disturbance factors that affected all nests were a cold late spring and late snows. Early June weather reports indicated below average temperatures and above average precipitation (Weather Underground 2012). At the Mission Slough nesting territory (located at Rose Lake) (unsuccessful), an adjacent landowner related that there was a snowfall of 4 inches in early June (Gibbs, pers. comm. 2012).

Other potential disturbance factors were at specific locations within the territories as indicated in *Table 1*. Disturbance factors near nests include paved and unpaved roads, hiking, biking, and parking. The Trail of Coeur D'Alene, trailheads, and parking lots are located near two nests (Anderson Lake and Heyburn Park). Generally, the trail had snow-covered portions and had minimal use until mid-May. Signage to alert users of nearby nests and recommend minimized stays to avoid impacts to nesting activities may be

useful near the Anderson Lake trailhead and parking area if subsequent monitoring reveals repeated nest failures.

Residential disturbance factors include paved and unpaved roads; year round and seasonal (occupancy begins June or July) homes. Osprey nests were often near eagle nests with regular prey capture in the bald eagle territories. Of these potential disturbance factors, none appeared to have been a sole cause of nest failure, but may have had incremental impacts. Subsequent monitoring will provide more information.

A jet boat race occurred May 12, 2012 along the St. Joe River from St. Maries to Caldwell, Idaho. The Falls Creek and Turtle Lake nests are located near the river shoreline. This annual, one day, two-hour race occurs from 10:00 am to 12:00 noon, during which the boats pass by the two nest sites. There may have been one or more previous check runs. Although the nests were active prior to May 12th, no nesting activity was observed after this date. Future monitoring may provide additional information as to why the two nests were unsuccessful.

Table 1. 2012 Bald Eagle Territory Nest Monitoring

Territory Name	Nest Number	Current Planning Area	Nest condition start/end	Potential Disturbance Factors	Nesting Determination	Number of Fledglings
IDAHO						
Anderson Lake	07103101	No, private	Good	Top of snag broken, many osprey nests, Trail of CDA	Active, Not successful	0
Blessing Slough	07107601	No, IDFG	Good	None	Active, Success unknown	unknown
Cougar Bay	07103502	No, Federal & private	Good	Residential, osprey nests	Active, Not successful	0
Eddyville	07107701	No, private	Fair	Residential	Active, Successful	2
Falls Creek	07103703*	No, private	Good/destroyed	Jet boat race	Active, Not successful	0
Heyburn Park	07105702	No, IDPR	Good	Park roadways, hiking, Trail of CDA.	Active, Not successful	0
Killarney Lake	07101702	No, IDFG	Good	Swan carcasses in April, @ bay ~ ½ m N	Active, Successful	2
Mica Bay	07105401	No, private	Good	Residential	Active, Successful	2
Rose Lake (Mission Slough W)	07101902	No	Good	Residential, 4" late snow	Active, Not successful	0
Post Falls Dam	07108001	Yes	Good	Residential, roadway, osprey nests	Active, Successful	1
Rainey Hill N	07107402*	No	Good	None	Active, Success unknown	unknown
St. Maries	07104301	No, private	Good	None	Active, Successful	1
Swan Lake	07102002	No, private	Good/poor	Picnic table, recreation on island	Active, Successful	2
Turner Bay	07106603	No, private	Good	Near highway	Active, Successful	2
Turtle Lake	07102402	No, private	Good	Ranch, residence, jet boat race	Active, Not successful	0
Windy Bay S	08100102*	No, Private	Good	None	Active, Successful	1
WASHINGTON						
Charles Mass	63054	No, WAParks	Good	Park and residential	Active, Successful	1
Long Lake South	62209*	Yes	Good/poor	None	Active, Successful	2
Whalen	62973	Yes, Avista/Conservancy	Good	None	Active, Successful	3
Total fledglings (n=17)						19
Average fledglings per nest (n=17)						1.12
Average fledglings per successful nest (n=11)						1.73

* New alternative nest monitored in 2012

3. Surveys to Identify New Nests

Surveys to identify new nests commenced in 2012. New nests identified during the Survey will be incorporated into monitoring efforts starting in 2013 and in subsequent years.

3.1 METHODS

The methods described below follow those detailed in the 2010 Plan, with a minor adjustment that extended the initial observation period through April due to persistent inclement weather conditions that grounded the aerial surveys. Supplemental efforts included communications with local and nearby residents of the Project area during the course of ongoing investigations.

Avista coordinated with the US Fish and Wildlife Service (USFWS), Idaho Fish and Game (IDFG), Washington Department of Fish and Wildlife (WDFW) and other entities to identify potential new bald eagle territories or nests.

Survey Routes. Aerial surveys were conducted within the monitoring area. Surveys were conducted primarily from a fixed-wing aircraft. The survey routes followed the shorelines of Project waters at elevations approximately 500 to 800 feet. Observers noted and tracked adult eagles outside of known territories and looked for nests in likely locations.

Survey Dates. Aerial surveys were conducted on April 10, April 12, and April 25, 2012. Supplemental survey efforts occurred during the ongoing monitoring and territory investigations by both watercraft and land-based vehicles. Observers noted and tracked adult eagles outside of known territories and looked for nests in likely locations.

Documentation for any new nest, or suspected new nest, encountered during surveys included a minimum of two nest photographs, GPS location, and relevant descriptive information indicating nest location, nest condition, proximity to known nests, and significant habitat alterations. All new nest data was recorded on standardized data forms.

3.2 RESULTS

Nine new nests were located during the survey efforts. Four of the new nests were alternative nests located within existing territories. Five of the new nests were in new territories. The four new alternate nests were included in the 2012 monitoring effort results that were summarized earlier in this report.

The following table, figures, and attached *Appendix B* provide:

- Locations of previously undocumented nests and
- Relationship of new nests to known nests
- Photographs of new nests
- Descriptions of new nests
- Notes regarding significant alterations to habitats

Table 2. Summarizes information of the new nests located during the 2012 survey efforts including location, relationships of new nests to known nests, and notes.

Table 2. 2012 New Bald Eagle Nests

Territory Name	Number	Location/ Relationship to known nests	Current Planning Area	Notes	Latitude, longitude
NEW ALTERNATIVE NEST, EXISTING TERRITORY					
Falls Creek W, ID	07I03703	~ 1/2 mile west of other nests, north of river	No	original nest collapsed prior to 2012	47.314694, -116.316226
Long Lake S, WA	06W2209	~ 2 miles east of previous nests, south shore across from boat access	Yes	original nests collapsed prior to 2012	47.826684, -117.748139
Rainey Hill N, ID	07I07402	~ 1.7 miles north of other nest, west side cottonwoods	No	west of Schlepp property	47.49946, -116.565328
Windy Bay S, ID	08I00102	south of other nest, south shore of Windy Bay	No	other nest in newly developed area	47.47544, -116.906300
NEW NEST, NEW TERRITORY					
Fernan Lake, ID	07I10001	southeast end of Lake	No	across from end of road	47.673248, -116.709566
Hepton Lake, ID	07I10101	west side river bend in cottonwoods	No	between Heyburn Park and St. Maries	47.330977, -116.629872
Little Falls, WA	06W10001	south shore of lower Spokane River	No	west extent of lower Spokane River	TBD in 2013
Lower Spokane River, WA	06W10101	downstream of Hwy 291 bridge, north shore	No	between Long Lake S and Little Falls	47.840339, -117.854311
Upper Spokane River, ID	07I10201	~ 2mi. downstream of Lake CDA, west shore of Spokane River	No	between Post Falls Dam and Cougar Bay	47.696751, -116.830384

The locations of the original 19 bald eagle nests and the nine new nests are shown in *Figures 1 and 2*. These 24 nests will be monitored in 2013 and subsequent years.

Documentation of the four new alternative nests including standardized raptor nest forms with descriptions, photographs, and maps are included in *Appendix B*. Documentation of the five new nests in new territories will be completed during the 2013 occupancy and productivity monitoring and finalized for the 2013 annual report.

Additionally, communications with local residents and other Project area users, provided leads for five other potential eagle nesting areas to survey in 2013, should it be determined the nesting territories are within or utilize the Project area. This includes areas of Cataldo Slough, upper St. Maries River, and St. Joe River in Idaho, and in Washington, the Suncrest and Barker Road areas in Washington.

4. Nesting Territory Investigation Report

The purpose of the investigations is to identify nesting territories and associated primary use areas, home ranges, and key use sites. New nest territories documented within the monitoring area during the course of annual surveys to identify new nests will be added to scheduled territory investigations. Nesting territories may be omitted from investigation if a site-specific nest management plan is currently in place and/or if home ranges, primary use areas, and key use sites are already known. Avista will coordinate with USFWS, IDFG, and WDFW, as appropriate to determine whether nest management plans are available. Nesting territories are only omitted from investigation with mutual agreement of USFWS, IDFG, and WDFW as appropriate.

The nesting territory investigation report will include the results of habitat use investigations for those nesting territories that are not part of the planning area. The two nest territories subject to investigation in 2012 were within the Project planning area. Therefore, the results of the habitat-use investigations will be reported within the site-specific management plans of these two territories.

4.1 METHODS

The methods summarized below follow those detailed in the 2010 Plan. Professional judgment was used when required to modify these methods for site-specific circumstances.

Location of Territories. The Long Lake South and Whalen nesting territories were investigated in 2012. These territories are located in the project planning area located in the Long Lake HED of Washington as shown in *Figure 2*.

Study Dates and Schedules. Observers are to collect two nesting seasons of habitat-use data at each of the two nests. Observation periods were scheduled once every two weeks, for each nest under investigation, from March 1 through July 31st. Observation periods occurred from either (i) first light to mid-morning or (ii) two to three hours before sunset to dusk. A combination of morning and evening observation data was collected for each territory under investigation. The first nesting season of these two territories was collected in 2012.

Study Methods. During each observation period, eagle activity was recorded on standardized data forms in a time-interval format referenced to locations marked on a map or recorded by GPS. The information documented included: begin and end time, eagle (female, male, or juvenile), location (referenced to map/ or GPS), activity, disturbances, and other pertinent information described in the Plan. Observers summarized habitat use by the number of minutes each eagle spent using each habitat feature. Time-interval records that include observations of agitated behavior were summarized by the type of disturbance, frequency, duration, and distance to the source of agitation.

Observers followed nesting eagles from the territory as far as safely and legally possible during the observation period. Observations were conducted from water and/or land, and a variety of vantage points were used to encompass the area, the locations were marked on a map or recorded by GPS.

Home Range, Nesting territory, Primary use areas, Key use sites, and Disturbances. For the purposes of this report, home range is defined as habitats occupied by eagles year round that were recorded during investigations. Nesting territory is defined as areas occupied by eagles during the nesting period of March 1st through July 31st. Primary use sites is defined as areas occupied by eagles greater than 75% of the time recorded during investigations. Key use sites include nests, perches, roosting stands, and prey capture areas. Disturbances are those activities noted that result in disturbance to nesting eagles and/or reduce the quality or availability of local nesting habitat.

Locations and habitat features referenced during the investigation will be entered into a spatially-linked database after two years of investigations. Bald eagle nesting territories, including home ranges and primary use areas, shall be delineated from the data collected during the field investigation using one of several possible methods producing contours that define the intensity of activity in a given area.

4.2 RESULTS

The Long Lake South and Whalen nesting territories located in the Long Lake HED were investigated in 2012. This was the first of the required two seasons of nesting territory investigations. Standardized forms were used to collect data. GPS information was collected and entered into a spatially linked database. The investigations for Long Lake South and Whalen territories will conclude after the second season in 2013. Because the two nest territories subject to investigation in 2012 were within the Project planning area, a site-specific management plan for these two territories will be completed in 2013. The results of the habitat-use investigations will be reported within the site-specific management plans.

The site –specific management plans will include investigation methods and identify nesting territory, home range, primary use areas and key sites used during nesting. The plans will identify and characterize activities that result in disturbance to nesting eagles and describe ongoing activities that result in loss or degradation of habitat within a nesting territory. Measures will be proposed to reduce bald eagle/human conflicts based on identified threats. The plans will focus on areas where Avista has the management authority to protect habitat and the ability to enforce seasonal restrictions on activities found to disturb nesting eagles.

Associated with the two site-specific management plans, Avista will provide USFWS and WDFW with electronic files (Excel, geodatabase, or shapefile) depicting nesting territories, home ranges, primary use areas, key use sites, and any proposed zones or locations where activities may be restricted to protect nesting eagles.

Figure 1. 2012 Bald Eagle Nesting Locations of Project Waters in Idaho

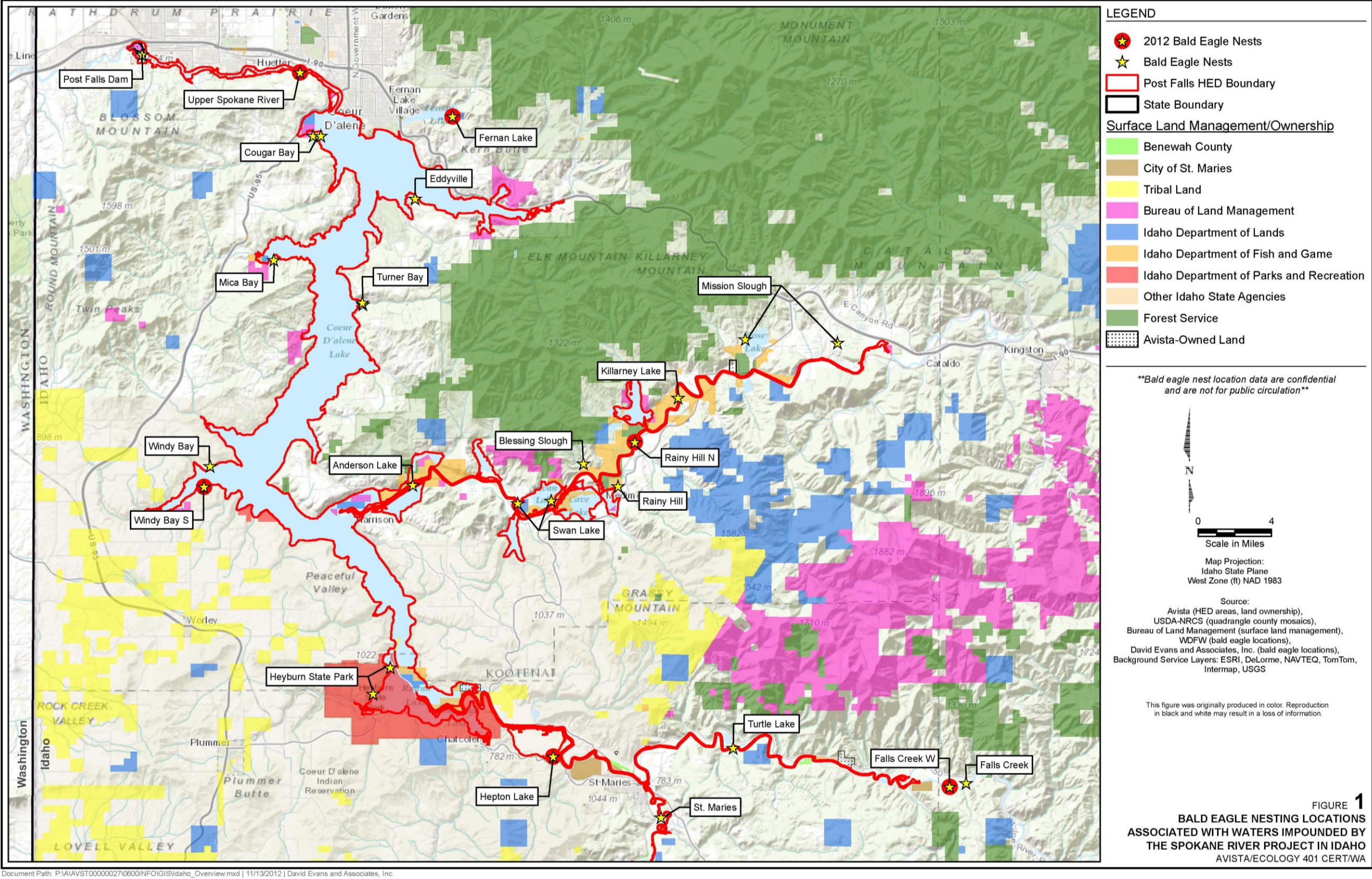
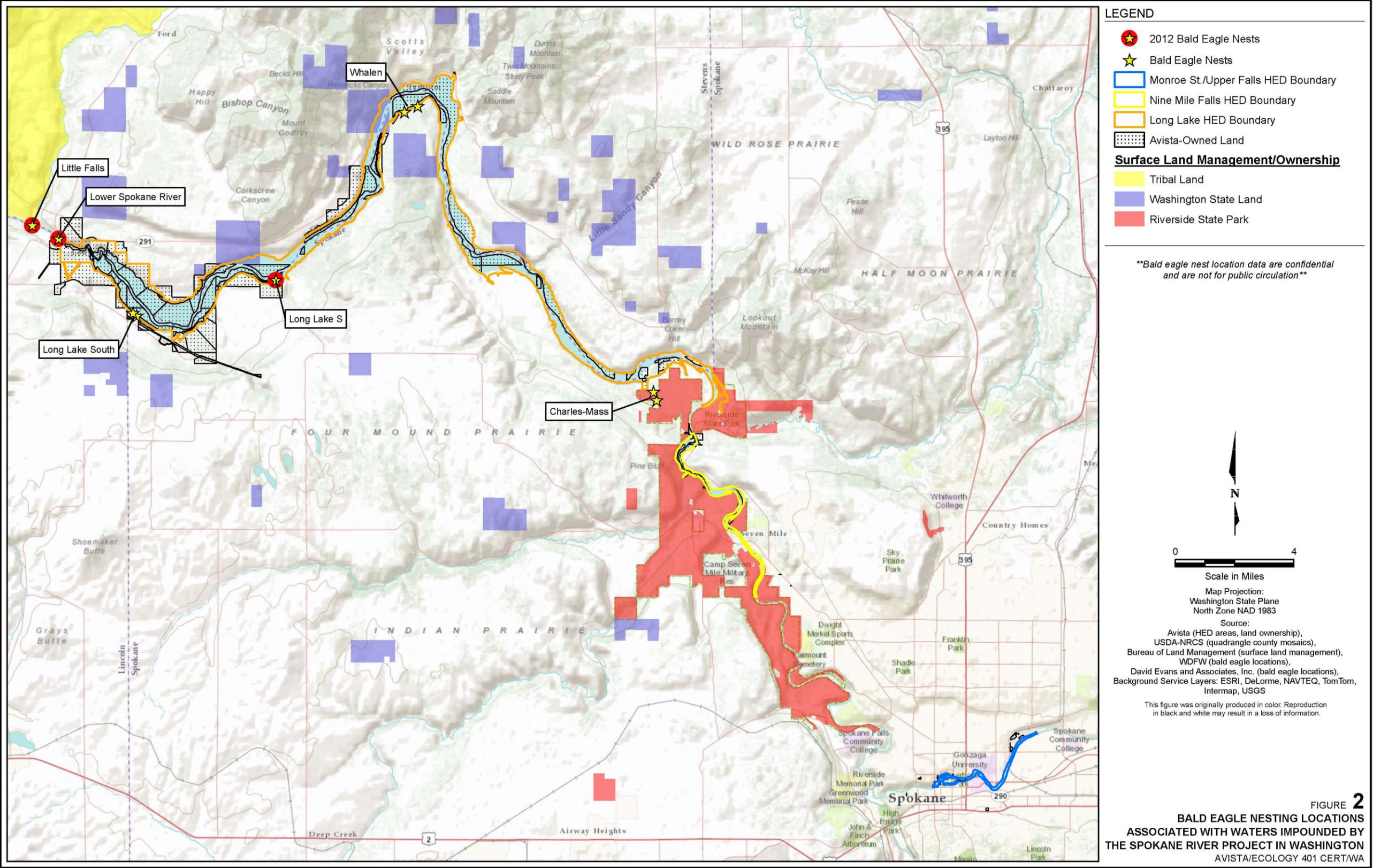


Figure 2. 2012 Bald Eagle Nesting Locations of Project Waters in Washington



5. References

- Carpenter, G. 1990. An Illustrated Guide for Identifying Developmental Stages of Bald Eagles Nestlings in the Field. San Francisco Zoological Society, San Francisco, CA.
- Gibbs, Scott. 2012. Personal communication with adjacent landowner of the Rose Lake eagle nest, regarding early June snowfall. July 20, 2012.
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- Sallabanks, Rex. Idaho Bald Eagle Nest Monitoring 2006 Annual Report. Idaho Department of Fish and Game Nongame and Endangered Wildlife Program. Boise, Idaho.
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[June 10, 2012](#)
-

APPENDIX A 2012 Occupancy and Monitoring Forms

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM

2012

I. ID.

Territory Name: Anderson Lake Territory/Nest Number: 07103101 Observer Initial: LS Reviewer Initial: DA

II. SURVEY SUMMARY

Survey Code

- ☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

- ☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☒ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code

- ☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

- ☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☒ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

ALT @ bridge

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy February 1 – March 31 (pre-egg laying and early incubation)	unk	good	[Aurista Review]	AD	inc	—	—
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	4/5/12	good	[Access Plan/Aurista]	2 (Imm BAZA) (many as prey)	—	—	—
	4/25/12	good	unk	2 AD / flt w2E		unk	unk
	6/6/12	good	no sign of activity @ nest	AD	per E clump in cottonwood	0	0
Determine Productivity June 15 – July 31 (late nestling and fledging)	7/20	good	none	0		0	

1 hr 40 min

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: Not singular, however broken top of snag, all the nearby osprey, & cold spring were all contributing factors.

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) many (6+) osprey nests within 1 mile of nest about every .5 miles. Two nearest ones active. Nearest ~500'Habitat Alterations (record type, extent, and proximity to nest) Trail of CDA & parking area within territory and near nest. Human use not noted until warmer months of June/July. ALT nest in snag, top broken, this winter?

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Prepared by: L. StragisDate: 7/20/12Reviewed by: [Signature]Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
 2012

I. ID

Territory Name: Blessing Slough Territory/Nest Number: 07107601 Observer Initial: LS Reviewer Initial: DA

II. SURVEY SUMMARY

Survey Code

☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☒ (5) Productivity Not Determined
☐ (6) Complete Survey, Productivity Determined

Status Code

☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code

☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☒ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: UNK young (at or near fledging age)

lack of data May - early July
found vantage point from boat 7/13/12

III. SURVEY RESULTS

4/5/12 - could not access - drive from Rainy Hill nest to boat launch area

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy February 1 - March 31 (pre-egg laying and early incubation)	<u>UNK</u>	<u>UNK</u>	[Avista Review/not accessed]	—	—	—	—
Update Nesting Status April 1 - June 15 (late incubation and nestlings)	<u>4/15/12</u>	<u>unk</u>	[Avista Access Plan/not accessed] w/DZA	—	—	—	—
	<u>4/25/12</u>	<u>good</u>	<u>active</u>	<u>1 AD</u>	<u>inc</u>	<u>UNK</u>	<u>UNK/nestling?</u>
Determine Productivity June 15 - July 31 (late nestling and fledging)	<u>6/7/12</u>	<u>unk</u>	<u>boat access not visible - obscured by foliage</u>	—	—	<u>unk</u>	<u>unk</u>
	<u>7/13/12</u>	<u>good</u>	<u>unk</u>	<u>φ</u>	—	<u>0</u>	—

no sign of fledglings, some leaves above nest, no whitewash visible, 1st tanager flew in & perched on nest

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) None - far from human use areas

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Prepared by: L. StragisDate: 7/17/12Reviewed by: [Signature]Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
 2012

I. ID

Territory Name: Cougar Bay Territory/Nest Number: 07103502 Observer Initial: LS Reviewer Initial: DA

II. SURVEY SUMMARY

Survey Code

☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☒ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code

☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☒ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy	—		[Airst review, no access]				
February 1 – March 31 (pre-egg laying and early incubation)	4/10/12 aerial	Good (alt.)	active not found	2 AD	INC	UNK	
Update Nesting Status							
April 1 – June 15 (late incubation and nestlings)	6/9/12	good	— no activity	⊖	—	none seen — UNK	— UNK
Determine Productivity							
June 15 – July 31 (late nestling and fledging)	7/12/12	good	— no activity —	♂ + ♀ in territory	Prey capture + Perching	0	0

9:00 am
10:50 am

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: incubationReason for failure: unknown

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) residential development - previousOngoing Disturbances (record type, extent, and proximity to nest) Osprey nest + OSPR in bay S.
Residents on both sides.Prepared by: P. S. DugginsDate: 7/17/12Reviewed by: [Signature]Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
 2012

I. ID

Territory Name: Eddyville Territory/Nest Number: 07107701 Observer Initial: LS Reviewer Initial: DA

II. SURVEY SUMMARY

Survey Code

☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☒ (7) Successful

Nest Condition Code

☐ (1) New ☐ (2) Good ☒ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy February 1 – March 31 (pre-egg laying and early incubation)	<u>Wk</u>	<u>Fair</u>	<u>(some debris below)</u>	<u>AD</u>	<u>Perch</u>	<u>—</u>	<u>—</u>
			<u>[Avista access check - looks damaged]</u>				
Update Nesting Status April 1 – June 15 (late incubation and nestlings) <u>aerial</u>	<u>4/15/12</u>	<u>Fair</u>					
		<u>(debris)</u>	<u>[Avista/DSA access plan]</u>				
	<u>4/25/12</u>	<u>fair</u>	<u>active?</u>	<u>AD flt to nest</u>	<u>INC?</u>	<u>Wk</u>	<u>UN</u>
	<u>6/6/12</u>	<u>(nestling)</u> <u>fair</u>	<u>active</u>	<u>AD w/ pug in nest</u>		<u>1(?)</u>	<u>3C</u>
Determine Productivity June 15 – July 31 (late nestling and fledging)	<u>7/20/12</u>	<u>fair</u>	<u>active</u>	<u>AD, 1</u>	<u>Came to nest</u> <u>all VCL</u>	<u>2</u>	<u>3d</u>

nestlings?
not a
good view

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) above residential area, between roads, near gravel road intersectionsPrepared by: L. StaggisReviewed by: [Signature]Date: 7/20/12Date: 7/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
 2012

I. ID

Territory Name: Falls Creek W Territory/Nest Number: 07103703 Observer Initial: LS Reviewer Initial: DA
~~07103702~~

II. SURVEY SUMMARY

Survey Code

☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☒ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code

☒ (1) New ☒ (2) Good ☐ (3) Fair ☒ (4) Poor ☒ (5) Nest Destroyed: 07103702 - collapsed

Nesting Determination

☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☒ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

4/03/12 Access review, not not location, EA(?) flying west, 2 BAE nest @ + near.

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy	4/03/12		[Arista D/A access plan]	2 BAE @ new nest	ADinc	—	—
February 1 – March 31 (pre-egg laying and early incubation)	4/10/12	good	—	Ø		not visible W/15	nestlings?
	4/11/12	normal					
Update Nesting Status	↓						
April 1 – June 15 (late incubation and nestlings)	4/14/12		Jet boat race: see back page				
	6/6/12	good	no activity			unk	unk
Determine Productivity							
June 15 – July 31 (late nestling and fledging)	7/11/12	good	no activity - tree leaves have grown up around + above nest	Ø		Ø	—

new location. left of 6 shag. One on nest.

Falls Creek East (alt) not found by plane on earlier survey

Can view from back road to. Old cottonwood split tree ~ 80' ~ 3' diam,

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting-attempt failed (Yes/No), date/nesting period of failure: incubationReason for failure: unknown

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) Jet boat race 4/12/12. St Maries to Caldwell
and return - one day, with maybe a check run earlier. Times 10:00 am start,
noon finish; Two hours

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Prepared by: L. StragisDate: 7/17/12Reviewed by: [Signature]Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
 2012

I. ID

Territory Name: Heyburn Park Territory/Nest Number: 07105702 Observer Initial: LS Reviewer Initial: JA

II. SURVEY SUMMARY

Survey Code

- ☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

- ☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☒ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code

- ☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

- ☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☒ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy February 1 – March 31 (pre-egg laying and early incubation)	<u>W/K</u>	<u>good</u>	<u>[Arista Review] active</u>	<u>AD</u>	<u>inc</u>	<u>—</u>	<u>—</u>
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	<u>4/3/12</u>		<u>[Arista DSA Access] Plan Review</u>	<u>AD</u>	<u>inc</u>	<u>—</u>	<u>—</u>
	<u>4/10/12</u>	<u>good</u>	<u>active</u>	<u>AD</u>	<u>inc</u>	<u>W/K</u>	<u>nestlings?</u>
	<u>aerial</u>	<u>g</u>					
Determine Productivity June 15 – July 31 (late nestling and fledging)	<u>6/2/12</u>	<u>good</u>	<u>?</u>	<u>♂ - ♀ Ad</u>	<u>on branches perched above preening (calling)</u>	<u>W/K not observed</u>	<u>W/K 2 coyote</u>
	<u>spent</u>	<u>an hour looking for sign of movement of young - none, could be late nest on failed</u>					
	<u>7/11/12</u>	<u>good(-)</u>	<u>— looks abandoned</u>	<u>Ø</u>		<u>Ø</u>	
	<u>walked up above nest to ridge</u>	<u>> activity, no white wash</u>					

North nest not found by plane

Park hdgt. personnel said 3 yng in 2011.

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: incubationReason for failure: unknown

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) Exist road ~50 yds, and trail ~150 yds
6/2 not apparently influencing preening or perchingPrepared by: L. StragisDate: 7/17/12Reviewed by: [Signature]Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
 20 12

I. ID

 Territory Name: Killarny Lake Territory/Nest Number: 07101702 Observer Initial: LS Reviewer Initial: DA

II. SURVEY SUMMARY

Survey Code

- ☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

- ☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☐ (5) Active ☐ (6) Unsuccessful ☒ (7) Successful

Nest Condition Code

- ☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

- ☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

 Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS

4/5/12 Access Plan from Killarny Rd. two nests - one on right active AD on nest

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy							
February 1 – March 31 (pre-egg laying and early incubation)	<u>wk</u>	<u>good</u>	<u>[Arista Review]</u> <u>active</u>	<u>AD</u>	<u>inc</u>	<u>—</u>	<u>—</u>
Update Nesting Status	<u>4/5/12</u>	<u>good</u>	<u>active</u>	<u>AD</u>	<u>inc</u>	<u>wk</u>	<u>nestings?</u>
April 1 – June 15 (late incubation and nestlings)	<u>4/10/12</u>	<u>good</u>	<u>[Arista DSA Access Plan]</u>	<u>AD</u>	<u>inc</u>	<u>wk</u>	
	<u>6/10/12</u>	<u>good</u>	<u>active</u>	<u>AD</u>	<u>—</u>	<u>2/3</u>	<u>3b/c</u>
Determine Productivity							
June 15 – July 31 (late nestling and fledging)	<u>7/20</u>	<u>good</u>			<u>nearby snag</u>	<u>1</u>	<u>fled</u>
	<u>8/10/12</u>				<u>assume other</u>		

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) -In April - there were numerous swan carcasses upstream ~2500 in bay N of access pt.

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Prepared by: S. STRAHL

Reviewed by: [Signature]

Date: 7/20/12

Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)

BALD EAGLE NEST MONITORING FORM

2012

I. ID

Territory Name: Mica Bay Territory/Nest Number: 07105401 Observer Initial: LS Reviewer Initial: [Signature]

II. SURVEY SUMMARY

Survey Code

- ☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

- ☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☒ (7) Successful

Nest Condition Code

- ☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

- ☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy February 1 – March 31 (pre-egg laying and early incubation) <u>Plan</u>	<u>W/K</u>	<u>Good</u>	<u>[Avista Review]</u>	<u>AD</u>	<u>perched on snag near nest</u>	<u>—</u>	<u>—</u>
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	<u>4/3/12</u>	<u>Good</u>	<u>active</u> <u>[Avista DSA Assess Plan]</u>	<u>2 AD ♀ ridge</u>	<u>♂ on nest inc</u>	<u>—</u>	<u>—</u>
	<u>4/10/12</u>	<u>Good</u>	<u>active</u> <u>aerial</u>	<u>AD</u>	<u>TUC</u>	<u>—</u>	<u>nestlings?</u>
Determine Productivity June 15 – July 31 (late nestling and fledging)	<u>6/2/12</u>	<u>Good</u>	<u>active</u>	<u>AD on snag @ ridge</u>	<u>perched</u>	<u>2</u>	<u>3d</u>
	<u>7/11/12</u>	<u>Good</u>	<u>active</u>	<u>♂</u>	<u>edge of nest</u>	<u>2</u>	<u>3d</u>

little
monks

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) _____

Existing established road 20-40 yards 2 homes

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Residential use - seasonal - this year use noticed in JulyPrepared by: L. StagisDate: 7/17/12Reviewed by: [Signature]Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
 2012

I. ID

Territory Name: Mission Slough E Territory/Nest Number: 07101901 Observer Initial: LS Reviewer Initial: JA

II. SURVEY SUMMARY

Survey Code

- ☐ (1) Not Checked ☒ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☐ (6) Complete Survey, Productivity Determined

Status Code

- ☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☐ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code

- ☐ (1) New ☐ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

- ☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: _____ young (at or near fledging age)

III. SURVEY RESULTS

4/5/12 went by ranches + on 90 can't see nest

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy							
February 1 – March 31 (pre-egg laying and early incubation)	<u>4/10/12</u>	<u>adult bird spotted NE</u>	<u>of location near old hwy.</u>	<u>not found</u>			
Update Nesting Status							
April 1 – June 15 (late incubation and nestlings)			<u>Rose Lake alt. occupied.</u>				
Determine Productivity							
June 15 – July 31 (late nestling and fledging)							

Check Catlode slough (per Scott Gibbs) 7/20/12

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Prepared by: S. StugisReviewed by: [Signature]Date: 7/17/12Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2012

1. id

Territory Name: Mission Slough / Rose Territory/Nest Number: 07101902 Observer Initial: LS Reviewer Initial: [Signature]

II. SURVEY SUMMARY

Survey Code

☐ (1) Not Checked
 ☐ (2) Not Located
 ☐ (3) No Initial Occupancy Determination
 ☐ (4) No Nesting Status Update
 ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☐ (5) Active ☒ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code

☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☒ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

Access Plan 4/5/12 AD ♂ standing not incubating @ nest

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy February 1 – March 31 (pre-egg laying and early incubation)	UNK	good	[Aurista Review]	AD	near	—	—
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	4/5/12	good	[Aurista DIA Access Plan]	AD	♂ stand @ nest	—	—
Determine Productivity June 15 – July 31 (late nestling and fledging)	4/10/12	good	active	♂		2(+?) nestlings	
	6/11	good	none	♂		UNK - none seen	
	7/20/12	good	none	♂		♂	

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:	<u>11</u>	Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: late snow - check date, 4th

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) residential

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Prepared by: L. ShagisDate: 9/17/12Reviewed by: [Signature]Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
 2012

I. ID

Territory Name: Post Falls Dam Territory/Nest Number: 07108001 Observer Initial: LS Reviewer Initial: [Signature]

II. SURVEY SUMMARY

Survey Code

☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☒ (7) Successful

Nest Condition Code

☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy February 1 – March 31 (pre-egg laying and early incubation)							
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	4/3/12	Good	active	AD	inc	—	—
	4/10	Good	active	AD	inc	unk	nestling?
Determine Productivity June 15 – July 31 (late nestling and fledging)	6/2/12	good	active	♀ AD	brood	1(+?)	3c/d
	7/3/12	good	active	♂ + ♀ AD 80yds upstream		1	3d

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest)

Osprey nest E side of river ~800'
6/2/12 OSPRA adult bringing food to nest, fish. ~1/2 hour. Osprey flew @ BASA at nest
when BASA was returning - diverted BASA to perch tree

Habitat Alterations (record type, extent, and proximity to nest)

⊗ New

Ongoing Disturbances (record type, extent, and proximity to nest)

osprey feeding / dam operations

Prepared by: L. StaggisReviewed by: [Signature]

Date:

7/17/12

Date:

9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
 2012

I. ID

Territory Name: Rainy Hill north Territory/Nest Number: 0710 7402 Observer Initial: LS Reviewer Initial: DA

II. SURVEY SUMMARY

Survey Code

☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☒ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code

☒ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☒ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: UNK young (at or near fledging age)

*lack of data May-early July
found vantage point by boat July 13*

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy							
February 1 – March 31 (pre-egg laying and early incubation)	<u>4/15/12</u>	<u>good</u>	<u>[Aerial Review]</u>				
Update Nesting Status	<u>4/5/12</u>	<u>good</u>	<u>goose on nest - photo -</u>				
April 1 – June 15 (late incubation and nestlings)	<u>4/10/12</u>		<u>new nest location</u>	<u>1 AD</u>	<u>standing @ nest</u>	<u>2(?) eggs</u>	
	<u>aerial</u>		<u>active</u>				
Determine Productivity	<u>4/25/12</u>	<u>good</u>	<u>active</u>	<u>1 AD</u>	<u>perched @ nest</u>	<u>not visible</u>	<u>nestlings?</u>
June 15 – July 31 (late nestling and fledging)	<u>6/11/12</u>			<u>could not locate by land</u>			
	<u>7/13/12</u>	<u>good</u>	<u>looks maintained</u>	<u>1 ad</u>	<u>fly over</u>	<u>unk</u>	

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Prepared by: _____

Reviewed by: _____

Date: 7/17/12Date: 7/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
 2012

I. ID

Territory Name: St. Maries Territory/Nest Number: 07104301 Observer Initial: LS Reviewer Initial: [Signature]

II. SURVEY SUMMARY

Survey Code

☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☒ (7) Successful

Nest Condition Code

☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

4/03/12 Access Review - AD on nest

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy							
February 1 – March 31 (pre-egg laying and early incubation)	<u>wk</u>	<u>good</u>	<u>[Avista Review]</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Update Nesting Status	<u>4/03/12</u>		<u>active</u>	<u>AD</u>	<u>inc</u>	<u>—</u>	<u>—</u>
April 1 – June 15 (late incubation and nestlings)	<u>4/10/12</u>	<u>good</u>	<u>active</u>	<u>φ</u>		<u>2</u>	<u>(eggs to nestling)</u>
	<u>6/6/12</u>	<u>good</u>	<u>active / 1/2 obscured by foliage, 1st & 2nd near by</u>			<u>1 (+?)</u>	<u>3c</u>
Determine Productivity	<u>7/11/12</u>	<u>good</u>	<u>active foliage dense φ</u>			<u>1</u>	<u>3c</u>
June 15 – July 31 (late nestling and fledging)						<u>1</u>	<u>(still white + spots)</u>

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Prepared by: L. StragisReviewed by: [Signature]Date: 7/17/12Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
 2012

I. ID

Territory Name: Swan Lake Territory/Nest Number: 07162002 Observer Initial: LS Reviewer Initial: [Signature]

(Island nest)

II. SURVEY SUMMARY

Survey Code

☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☐ (5) Active ☐ (6) Unsuccessful ☒ (7) Successful

Nest Condition Code

☐ (1) New ☒ (2) Good ☐ (3) Fair ☒ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy February 1 – March 31 (pre-egg laying and early incubation)	<u>2/2/12</u>	<u>good</u>	<u>————</u> <u>[Arista Review]</u>	<u>BASA present</u>	<u>————</u>	<u>————</u>	<u>————</u>
Update Nesting Status April 1 – June 15 (late incubation and nestlings) <u>aerial</u>	<u>4/5/12</u>	<u>Good</u>	<u>————</u> <u>[Arista D&A Access Plan]</u>	<u>AD</u>	<u>perched on tree near nest?</u>	<u>————</u>	<u>————</u>
	<u>4/25/12</u>	<u>Good</u>	<u>nest not visible from road</u>	<u>φ</u>		<u>not visible</u>	<u>nestlings?</u>
	<u>6/6/12</u>						<u>Boat</u>
Determine Productivity June 15 – July 31 (late nestling and fledging)	<u>6/9/12</u>	<u>Good</u>	<u>AD FY</u>	<u>♂, ♀ / ♂ on tree</u>	<u>fledging young/brood</u>	<u>2</u>	<u>3 b/c</u>
	<u>7/12/12</u> <u>early</u>	<u>Poor</u>	<u>[nest 1/2 collapsed]</u>	<u>φ</u>		<u>φ</u>	

7

white washed

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Prepared by: _____

Reviewed by: _____

Date: _____

Date: _____

L. Stragis7/17/129/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2012

I. ID

Territory Name: Turner Bay Territory/Nest Number: 07106603 Observer Initial: LS Reviewer Initial: DA

II. SURVEY SUMMARY

Survey Code

- ☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

- ☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☒ (7) Successful

Nest Condition Code

- ☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: earlier nests collapsed

Nesting Determination

- ☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy February 1 – March 31 (pre-egg laying and early incubation)	<u>Wk</u>	<u>good</u>	<u>active</u> [Avista Review]	<u>AD</u>	<u>inc</u>	<u>—</u>	<u>—</u>
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	<u>4/5/12</u>	<u>good</u>	<u>active</u> [Avista DSA Access Plan]	<u>AD</u>	<u>inc</u>	<u>—</u>	<u>—</u>
	<u>4/25/12</u>	<u>good</u>	<u>active</u>	<u>AD</u>	<u>inc</u>	<u>Wk</u>	<u>nestlings?</u>
	<u>6/2/12</u>	<u>good</u>	<u>active</u>	<u>AD</u>	<u>per</u>	<u>2</u>	<u>3 c/d</u>
Determine Productivity June 15 – July 31 (late nestling and fledging)	<u>7/20</u>	<u>good</u>	<u>✓</u>	<u>✓</u>		<u>✓</u>	<u>fledged</u>

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Prepared by: L. StragisReviewed by: [Signature]Date: 7/20/12Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)

BALD EAGLE NEST MONITORING FORM

2012

I. ID

Territory Name: Turtle Lake Territory/Nest Number: 07102402 Observer Initial: LS Reviewer Initial: DA

II. SURVEY SUMMARY

Survey Code

- ☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☒ (5) Productivity Not Determined
☐ (6) Complete Survey, Productivity Determined

Status Code

- ☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☒ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code

- ☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

- ☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☒ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy							
February 1 – March 31 (pre-egg laying and early incubation)	wk	good	[Avista Review]	AD	—	—	—
	2		—	AD	INC	—	—
	4/03/12	good	active [Avista DSA Area Plan AD]	AD	♀ INC	—	—
Update Nesting Status	4/10/12	good	active	AD	INC	—	—
April 1 – June 15 (late incubation and nestlings)	4/14	—	jet boat race: see next page	—	—	—	—
	avial						
	4/25/12	good		φ			not visible - nestlings?
Determine Productivity	6/6/12	good	other birds near nest no activity	1AD	Per downstream	wk	wk
June 15 – July 31 (late nestling and fledging)	7/11/12	good	no activity	.	nothing visible	—	—

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: incubationReason for failure: unknown

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) boat race 4/14 am

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) Ranching + residences nearbyPrepared by: L. StrayReviewed by: [Signature]Date: 7/17/12Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM

2012

I. ID

Territory Name: Windy Bay south Territory/Nest Number: 58100102Observer Initial: LS Reviewer Initial: JS

II. SURVEY SUMMARY

Survey Code

- ☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

- ☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☒ (7) Successful

Nest Condition Code

- ☒ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

- ☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy February 1 – March 31 (pre-egg laying and early incubation) <i>Plane</i>	<u>4/10/12</u> <i>aerial</i>	<u>good</u>	<u>—</u>	<u>AD</u>	<u>Inc</u>	<u>—</u>	<u>nestlings?</u>
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	<u>6/9/12</u>	<u>good</u>	<u>active, feeding yng</u>	<u>2AD, 1 ♂ @ 1st yng</u>	<u>♀ FY + brooding</u>	<u>1(+?)</u>	<u>3a/b</u> <i>not standing</i>
Determine Productivity June 15 – July 31 (late nestling and fledging)	<u>7/12/12</u>	<u>good</u>	<u>active</u>			<u>1</u>	<u>3d</u>

fishing shack on right

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Prepared by: _____

Reviewed by: _____

Date: _____

Date: _____

L. Stragis7/17/129/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
 2012

I. ID

Territory Name: Charles Maas Territory/Nest Number: 63054/north Observer Initial: LS Reviewer Initial: DA

II. SURVEY SUMMARY

Survey Code

- ☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

- ☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☒ (7) Successful

Nest Condition Code

- ☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

- ☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

Access plan trip to site - nest not found

(Carpenter 1990)

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy February 1 – March 31 (pre-egg laying and early incubation)	<u>2/22/12</u>	<u>not found</u>					
	<u>4/12/12</u>	<u>good</u>	<u>complete</u>	<u>AD on nest</u>	<u>inc</u>	<u>unk</u>	<u>nestling?</u>
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	<u>5/12/12</u>	<u>good</u>	<u>active</u>	<u>2 AD on nest</u>	<u>Perch, brood</u>	<u>1/2?</u>	<u>white 1/2-1/6</u>
	<u>6/2/12</u>	<u>Reported</u>	<u>Injured ad. found near 9 mile</u>	<u>→ Vet hospital</u>			
Determine Productivity June 15 – July 31 (late nestling and fledging)	<u>7/12</u>	<u>good</u>	<u>active</u>	<u>♀</u>	<u>♀/perch on nest</u>	<u>1</u>	<u>3d</u>

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) (Ad found injured along 9 mile road 6/2/12)
see previous section.

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) Park & residential developmentPrepared by: L. StaggisReviewed by: [Signature]Date: 7/17/12Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
 20 12

I. ID

Territory Name: Long Lake S Territory/Nest Number: 62209 Observer Initial: LS Reviewer Initial: [Signature]

II. SURVEY SUMMARY

Survey Code

- ☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

- ☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☒ (7) Successful

Nest Condition Code

- ☒ (1) New ☒ (2) Good ☐ (3) Fair ☒ (4) Poor ☒ (5) Nest Destroyed: 62207 + 62208 collapsed

Nesting Determination

- ☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy	<u>W/K</u>	<u>not found</u>	<u>Avista Review</u>				
February 1 – March 31 (pre-egg laying and early incubation)	<u>2/21/12</u>	<u>"</u>	<u>Avista DSA Access Plan</u>	<u>AD Flt in territory</u>			
	<u>3/08/12</u>	<u>"</u>		<u>PER in snag</u>			
	<u>3/20/12</u>	<u>not found</u>		<u>2 AD @ spillway</u>			
Update Nesting Status	<u>4/4/12</u>	<u>"</u>		<u>Q</u>			
April 1 – June 15 (late incubation and nestlings)	<u>4/17/12</u>	<u>good</u>	<u>now/active</u>	<u>2 AD</u>	<u>Fine/PER in snag</u>	<u>2 (1 on 20)</u>	<u>3a</u>
	<u>5/16 + 5/30</u>	<u>good</u>		<u>2 AD</u>	<u>PER</u>	<u>2</u>	<u>3b/c</u>
	<u>6/14/12</u>	<u>good</u>	<u>active</u>	<u>2 AD</u>		<u>"</u>	<u>3d</u>
Determine Productivity	<u>6/27</u>	<u>"</u>	<u>"</u>	<u>"</u>		<u>"</u>	<u>"</u>
June 15 – July 31 (late nestling and fledging)	<u>7/12</u>	<u>"</u>	<u>"</u>	<u>"</u>		<u>2 fledged</u>	
	<u>7/24</u>	<u>poor/destroyed</u>					

See territory investigation - new nest location - see nest forms

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Prepared by: J. S. HayesDate: 7/17/12Reviewed by: [Signature]Date: 9/18/12

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM20 12

I. ID

Territory Name: WhalenTerritory/Nest Number: 62978/73Observer Initial: LSReviewer Initial: [Signature]

II. SURVEY SUMMARY

Survey Code

- ☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

- ☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code

- ☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

- ☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

Number of Fledglings: 3 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy	UNK	good	active	AD	inc	—	—
February 1 – March 31 (pre-egg laying and early incubation)	2/21/12	good	active [Anista Review]	2 AD	♀ inc	—	—
	3/08/12	good	active [Anista, DSA]	AD	♀ inc	—	—
Update Nesting Status	3/20/12	good	active	2 AD	♂ PERCH on nest	—	—
April 1 – June 15 (late incubation and nestlings)	4/4/12	"	"	AD	inc	—	—
	4/12/12	"	"	2 AD	♂ per / ♀ inc	1(+?)	egg
	4/17/12	"	"	2 AD	♂ inc / ♀ inc	"	nestling
Determine Productivity	5/16/12	"	"	2 AD	Per	3	(2) 3c (1) 3b
June 15 – July 31 (late nestling and fledging)	6/14/12	"	"	"		3	3c/d
	6/27-28/12	"	"	"	Per	3	
	7/24	"	—	"		3 fledged	

See Territory Investigation sheets

24 weeks
till fledge

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

Disturbing Activities (record type, duration, and proximity to nest) _____

Habitat Alterations (record type, extent, and proximity to nest) _____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

Prepared by: F. S. StagesDate: 7/17/12Reviewed by: [Signature]Date: 9/18/12

APPENDIX B 2012 New Nest Documentation

Page 1 of 4

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
RAPTOR NEST RECORD

Species: BATA
Territory name (if known): Falls Creek west
Territory/nest number (if known): 703703
Reported by: Avista D. Arnes, L. Stiglis Date: 4/10/12
Location: T 46N R 1E Section 22 $\frac{1}{4}$ SE $\frac{1}{4}$ SE
State: ID County: Shoshone
Elevation: 2180 Aspect: on flood plain
Lat/Lon: 47.314694, -116.316226 Hydrologic unit: St. Joe River
Nest stratum: branches Nest height (circle ft or m): 70', 10' from top
Position on slope: ~100-200' from River Nest condition: good
Tree species: Cottonwood, live Tree height (circle ft or m): 80+ DBH (circle in or cm): 140+
Land ownership: _____
USGS Quad name: ST. Joe
Directions to nest: West of previous nest

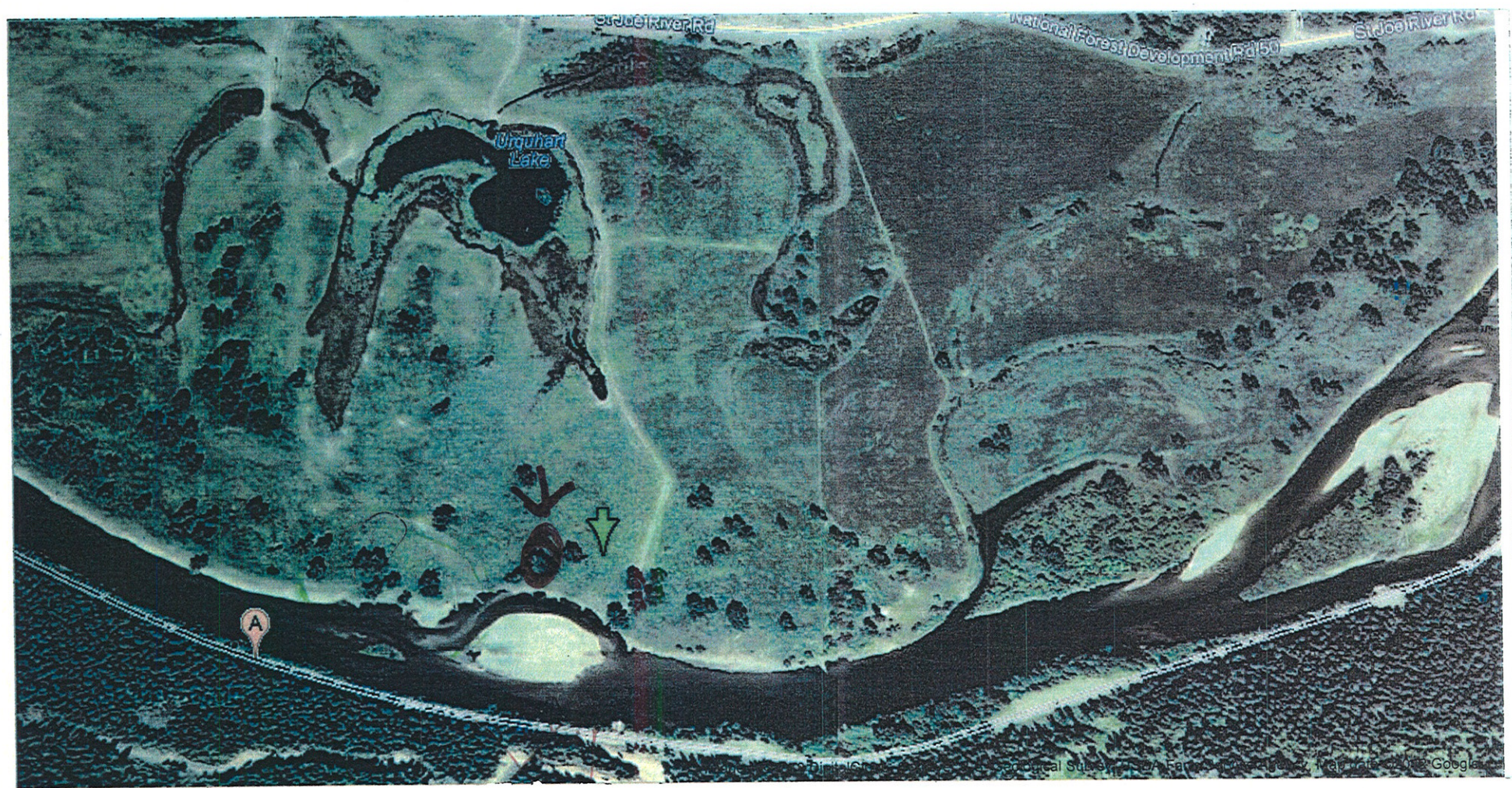
Comments: flew over 4/10/12 no adults, no eggs
earlier obs, both adults there see monitoring sheets

Observer Initial: LS Date: 6/7/12 Reviewer Initial: [Signature] Date: 9/18/12

****Attach locator map and photos showing nest site and nest****



To see all the details that are visible on the screen, use the "Print" link next to the map.



Falls Creek west At



Falls Creek
West, alt



Page 1 of 4

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
RAPTOR NEST RECORD

Species: BASA
Territory name (if known): Long Lake South
Territory/nest number (if known): 62209
Reported by: L. Staggis Date: 4/17/12
Location: T 27N R 40E Section 22 $\frac{1}{4}$ NW $\frac{1}{4}$ X
State: WA County: Spokane
Elevation: 2,000' Aspect: North
Lat/Lon: 47.826684 -117.748139 Hydrologic unit: Long Lake
Nest stratum: branches Nest height (circle ft or m): 100+, 10' from top
Position on slope: ridge Nest condition: good
Tree species: PIPO, live Tree height (circle ft or m): 100'+ DBH (circle in or cm): 30+
Land ownership: Arista
USGS Quad name: Long Lake
Directions to nest: walk NW along ridge - view west to nest

Comments: End of Gray Street off of Long Lake Rd / Devils Gap

Original nest collapsed in prior to 2011 nest season

Observer Initial: LS Date: 4/17/12 Reviewer Initial: 9/18/12 Date: 9/18/12
DT

****Attach locator map and photos showing nest site and nest****



To see all the details that are visible on the screen, use the "Print" link next to the map.



Long Lake South



Long Lake South



Page 1 of 4

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
RAPTOR NEST RECORD

Species: BA 9A
Territory name (if known): Rainey Hill north
Territory/nest number (if known): 7107402
Reported by: Aurista D. Arneson, L. Stragis Date: 4/10/2012
Location: T 48 N R 2 W Section 23 $\frac{1}{4}$ NW $\frac{1}{4}$ NW
State: ID County: Kootenai
Elevation: 2,200 Aspect: North
Lat/Lon: 47° 49' 46.7", -116° 56' 53.28" Hydrologic unit: CDA River
Nest stratum: branches Nest height (circle ft or m): near top
Position on slope: in stream Nest condition: good
Tree species: Cottonwood live Tree height (circle ft or m): 80' + DBH (circle in or cm): 30 +
Land ownership: _____
USGS Quad name: Medimont
Directions to nest: Boat access from Medimont upstream past Schlep.
Comments: 2012 - identified during aerial search.

1.7 miles north of 1st nest, which was occupied by a goose
2.8 miles south of Killarney nest

Observer Initial: LS Date: 7/13/12 Reviewer Initial: PA Date: 9/18/12

****Attach locator map and photos showing nest site and nest****



To see all the details that are visible on the screen, use the "Print" link next to the map.



Kainey Mill N



Rainy Hill (south) w/ Goose



Windy Bay South
New Alt. nest

Page 1 of 4

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
RAPTOR NEST RECORD

Species: BASA
Territory name (if known): Windy Bay South
Territory/nest number (if known): 800102
Reported by: IDFG Date: 4/10/2012
Location: T 48N R 5W Section 30 $\frac{1}{4}$ NE $\frac{1}{4}$ SE
State: ID County: Kootenai
Elevation: 2200' Aspect: north east
Lat/Lon: 47.474638, -116.892299 Hydrologic unit: Lake CDA
Nest stratum: branches Nest height (circle ft or m): 100+, ~10 feet from top
Position on slope: top of slope ~ 50m from shore Nest condition: good
Tree species: White pine, live Tree height (circle ft or m): 120+ DBH (circle in or cm): 36+
Land ownership: _____
USGS Quad name: Worley
Directions to nest: Boat access @ Windy Bay
Comments: 2012 - first sighting by plane, AD incubating

Observer Initial: LS Date: 6/18/12 Reviewer Initial: [Signature] Date: 9/18/12

****Attach locator map and photos showing nest site and nest****

Windy Bay, south



Windy Bay South



Windy Bay South

