AVISTA CORPORATION

2016

BALD EAGLE MONITORING REPORT

ARTICLE 414

SPOKANE RIVER HYDROELECTRIC PROJECT FERC PROJECT NO. 2545

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1.0 INTRODUCTION

On June 18, 2009, the Federal Energy Regulatory Commission (FERC) issued a 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. The Plan 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 (v) reporting requirements. This Bald Eagle Monitoring Report (Report) summarizes the 2016 results of the Plan implementation.

The Plan defines the Monitoring Area as the area that encompasses bald eagle nest sites associated with waters impounded by the Project. In general, this area extends one-half mile beyond the Project boundaries. Annual Monitoring, Surveys, and Investigations are completed within this area. Within the Monitoring Area the Plan defines the Planning Area, which is the geographic area associated with the requirement to prepare site-specific management plans for bald eagle nests. The Planning Area includes Avista-owned lands where an active or alternate nest associated with waters impounded by the Project is present, and specific additional nesting territories, where investigations indicate, that (1) Project operations may have negative effects on bald eagle productivity or habitats, and (2) opportunities for protection are available.

Avista hired Licia Stragis, Timberland Management Company senior biologist, to assist with implementation of the Plan. This annual monitoring report includes the results for implementation of the Plan. Original and electronic copies of all field forms, photographs, geographic information system (GIS) databases, and reports are on file at Avista.

2.0 OCCUPANCY AND PRODUCTIVITY MONITORING

2.1 Methods

Location of Territories Monitored

Thirty-two nesting territories were monitored in 2016 to determine annual occupancy and productivity. *Figures 1 and 2* show the locations of these nests.

Dates of Monitoring

Monitoring occurred between February 1 and July 31. The methods described below follow those detailed in the Plan. Supplemental efforts included additional observation dates and extending the observation period to midday for watercraft and some land-based 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 and the third observation, a determination of productivity, occurred between June 15 and July 31.

Observations were generally made from first light to midday and required up to one and one half hours to determine the occupancy and productivity. High-resolution optics were used to facilitate observations. Observations were conducted from 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 and observers retreated if eagles displayed agitated behavior. During each visit, data pertinent to the determination of nest occupancy and productivity were recorded, which included:

- Nest condition
- 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)

Observers also noted any habitat alterations or activities that have occurred near the nest site that may affect eagle productivity. 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. Nesting determination is the activity status of the nest. "Active" is a transitional designation. A nest that is deemed "Active" at the beginning of the nesting season received a determination of "Successful", "Active, Not Successful", 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 Report includes the number of eagles fledged from the nest. 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 2007). Therefore, actual numbers of fledglings and percentages may be the same or lower.

Active, Not Successful: An occupied territory where no young were produced. When the "Active, Not Successful" determination is used, observers tried to determine the cause of reproductive failure where possible, and note the nature, extent, and location of activities or habitat alterations in the territory. As of 2015, this determination includes previous "nest abandoned" designation where eagles had deserted or stopped attending the nests.

Active, Success Unknown: Occupied territory not adequately monitored to determine success. The use of this determination requires an explanation as to why the territory was not adequately monitored to determine success.

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. These nests are not included in the analysis of Project area productivity, nest productivity, and nest failure rates.

3. Status Unknown: Territory not checked or incompletely checked to determine occupancy. The use of the "Status Unknown" determination requires 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.

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

2.2 Results

Territory Occupancy, Nesting Activity Status, and Productivity Determination

Thirty-two nests were monitored in 2016, 32 were monitored in 2015, 27 were monitored in 2014, 23 nests were monitored in 2013 and 19 nests were monitored in 2012. The number of nests that are being monitored has increased from 19 to 32 over the five-year period, an increase of approximately 68 percent. The 2016 monitoring results are shown in *Table 1* and summarized below.

- Occupancy: 91%: Of the 32 nests that were monitored; 29 nesting territories were occupied and had active nests. Three were unoccupied and were not active.
- Active nests: Of the 29 active nests; 25 had known productivity.

Active, Successful: 22 nests. Active, Unsuccessful: 3 nests. Active, Success Unknown: 4 nests.

- Project area productivity: Thirty-three young were fledged from the 25 active nests with known productivity. The average number of fledglings per active Project nest was 1.32.
- Successful nest productivity: 88%. Of the 25 active nests with known productivity, 22 were successful. Thirty-three young were fledged from the twenty-two successful nests. The average number of fledglings per successful nest was 1.5.

Annual productivity of nesting territories in Project waters is summarized in Table 2.

Table 1. 201	6 Bald Eagle '	Ferritory Nest	Monitoring Results

	Nest	Nest in	Potential	2016	-	-	# of Fledgli	ings	
Territory Name	Number	Planning Area	Disturbance Factors	Nest Determination	2016	2015	2014	2013	2012
ЮАНО									
Ahrs Creek	07I10301	No	Jet boat race, ranch	Active, Successful	1	1	NA	NA	NA
Blessing Slough	07I07601	No	None. No nest found	Not active	0	0	2	0	UNK
Cougar Bay	07I03502	No	Residential, osprey nests	Active, Successful	2	0	2	UNK	0
Eddyville	07I07701	No	Residential	Active, Successful	2	2	2	2	2
Falls Creek	07I03703	No	Jet boat race	Active, Success Unknown	UNK	1	1	0	0
Fernan	07I03401	No	Residential	Active, Successful	1	1	1	1	NA
Hepton Lake	07I10101	No	Residential, Hwy 3	Active, Successful	1	2	2	2	NA
Heyburn Park S	07I05702	No	Park roadways, Trail of CDA.	Active, Successful	1	2	1	2	0
Heyburn Park N (active prior to 2012)	07I05701	No	Park roadways, Trail of CDA.	Active, Successful	2	-	-	-	-
Killarney Lake	07I01702	No	None	Active, Successful	2	0	1	1	2
Mica Bay	07I05401	No	Residential	Active, Successful	1	2	2	1	2
Post Falls	07I08002	Yes	Residential, roadway, osprey	Active, Successful	1	2	1	2	1
Rainy Hill	07I07402	No	None. Collapsed	Active, Not Successful	0	1	2	UNK	UNK
Rose Lake	07I01902	No	Residential	Active, Not Successful	0	1	0	1	0
St. Maries	07I04301	No	None	Active, Success Unknown	UNK	UNK	0	2	1

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T t N	Nest	Nest in	Potential	2016		#	f of Fledgli	ings	
Territory Name	Number	Planning Area	Disturbance Factors	Nest Determination	2016	2015	2014	2013	2012
Swan Lake	07102002	No	Picnic area, recreation. No nest found.	Not Active	0	0	0	UNK	2
Turner Bay	07I06604	No	Residence, near Hwy.	Active, Successful	2	0	0	1	2
Turtle Lake	07I02402	No	Residence, jet boat race	Active, Successful	1	1	2	2	0
Upper Spokane River	07I10201	No	Development opposite nest. Collapsed	Not Active	0	UNK	0	UNK	NA
Windy Bay	08I00103	No	None	Active, Successful	2	1	2	UNK	1

WASHINGTON

Charles Maas	06W3055	No	WA Park and residential	Active, Successful	2	1	1	1	1
Deep Creek	06W10901	No	WA Park and trails	Active, Success Unknown	UNK	2	NA	NA	NA
Four Mound	06W10502	No	Residential	Active, Successful	1	2	NA	NA	NA
Long Lake South	06W22010	Yes	Residential	Active, Not Successful	0	0	0	0	2
Lower Spokane River	06W10101	No	Osprey, Hwy 291, residential	Active, Successful	2	1	1	0	NA
Northshore	06W10403	Yes	Dock	Active, Successful	1	NA			
Powerball	06W10701	Yes	None	Active, Successful	2	2	NA	NA	NA
Riverside Launch	06W10601	No	Recreational access	Active, Successful	2	2	NA	NA	NA
Sportsman	06W10801	No	Residence	Active, Successful	1	1	NA	NA	NA
Suncrest	06W10301	No	Residential, trails	Active, Successful	1	1	0	NA	NA

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Territory Name	Nest	Nest in Planning	Potential Disturbance	2016	-	#	f of Fledgli	ngs	
renntory reame	Number	Area	Factors	Nest Determination	2016	2015	2014	2013	2012
Whalen	06W29703	Yes	Osprey	Active, Success Unknown	UNK	1	1	2	3
Willow Bay	06W10201	No	Other eagles, osprey, resort, Hwy 291	Active, Successful	2	2	1	NA	NA
					33	33	27	20	19
Fotal fledglings					(n=25)	(n=23)	(n=22)	(n=16)	(n=17)
Fledglings/ nest					1.32 (n=25)	1.44 (n=23)	1.23 (n=22)	1.25 (n=16)	1.12 (n=17)
	ul nest				1.50	1.44	1.50	1.54	1.73

UNK=Status unknown

n=total number of nests

	2016	2015	2014	2013	2012
Number of territories checked	32	32	27	23	19
Number of active territories	29	26	22	21	19
Percent active (occupancy)	91	81	81	91	100
Number of nests with known productivity	25	23	22	16	17
Number of successful nests	22	23	18	13	11
Number of active nest failures	3	0	4	3	6
Number success unknown	4	2	0	5	2
Percent active nest success	88	100	82	81	65
Percent active nest failure	12	0	18	19	35
Number of fledglings	33	33	27	20	19
Fledglings /nest	1.32	1.44	1.23	1.25	1.12
Fledglings/ successful nest	1.50	1.44	1.50	1.54	1.73

Table 2. Annual Summary of Project Area Bald Eagle Productivity

2.3 Discussion

The occupancy and productivity percentages in 2016 are similar to the previous 2012-2015 Project monitoring results, and previous studies conducted by Idaho Fish and Game (IDFG) from 1979 to 2006 in the Idaho Eagle Management Area 7 of north Idaho and Montana (Sallabanks 2006). The number of territories in 2016 remained the same as 2015 but the monitored nests changed status. The Heyburn Park territory was categorized as two territories in 2016, Heyburn Park North and Heyburn Park South. Both of the alternate nests were occupied, active, and fledged young. The Harrison west territory was categorized as a historic and removed from monitoring in 2016.

Most of these nest sites experience some human caused disturbance and habitat alterations from nearby residences, transportation elements, or human recreation as shown in *Table 1*. Only a few of the nests are in isolation from these types of ongoing disturbances. Natural disturbances include many other species such as osprey (*Pandion haliaetus*), owls, hawks, other birds, and other predators. Additionally, only five of the 32 nest sites are within the Planning Area, lands owned and managed by Avista.

The following section discusses the factors affecting occupancy and productivity of the individual nesting territories. They are ordered according to the final nesting determination.

Active, Successful. Twenty-two of 25 active nests were successful. Eleven nests successfully fledged two nestlings; eleven nests successfully fledged one nestling.

Active, Not Successful. There were three territories where adults were present in the territory during the nesting season but nesting was not successful: Rainey Hill, Rose Lake, and Long Lake South.

The Rainey Hill territory was determined active with a perched adult observed in late February. On the May 10 and June 1 monitoring dates no adults were observed and the nest in the cottonwood tree had collapsed. There was no sighting of eagles after February 25. Therefore adult presence and incubation indicated an active status, but due to lack of nesting activities the nest was determined to be unsuccessful. Aside from the collapsed nest, there were no disturbances or habitat alterations.

The Rose Lake territory was determined active with an adult perched by the nest on May 11. On June 1 a perched adult was also observed, but the nest was in poor condition. Therefore, adult presence indicated an active status, but due to a lack of nesting activities the nest was determined to be unsuccessful. There were no observed or potential disturbances or habitat alterations.

The Long Lake South territory was determined active with one incubating and one perched adult on March 16. On May 19, a perched adult was observed. June 16 also had a perched adult, but the nest was in poor condition. Therefore adult presence and incubation indicated an active status but due to lack juveniles, the nest was determined to be unsuccessful. There were no observed or potential disturbances or habitat alterations.

Active, Success Unknown: There were four territories where adults were present in the territory during the nesting season, but nesting success was not confirmed: Falls Creek, St. Maries, Deep Creek, and Whalen.

The Falls Creek territory was determined active with one adult observed within the vicinity in early June. Therefore adult presence indicates an active nest, but due to the lack of observed nest or young, success was unknown. No disturbances or habitat alterations were observed.

The St. Maries territory was determined active with adults observed at the late February and mid-May monitoring dates. An adult was observed incubating at the nest on May 10. At the June 1 monitoring date, a perching adult was observed but no nestlings or fledglings. However, the nest at this time was no longer visible in the dense cottonwood canopy. Therefore, adult presence and incubation indicated an active nest, but due to the lack of observed young, success was unknown. There were no observed or potential disturbances or habitat alterations.

The Deep Creek territory was determined active with a pair of adults flying in the territory in mid-March. At the April 12 monitoring date, no adults or nesting behaviors were observed. On

July 8, an adult was observed perched away from the known nest. It is possible there is an unidentified alternative nest in the territory. Therefore, adult presence indicated an active status, but due to the lack of observed nesting activities at the known nest and the potential alternative nest, success was unknown. There were no observed disturbances or habitat alterations. Potential disturbances at the known nest site included the nearby trails of Riverside State Park.

The Whalen territory was determined active with a perched adult observed in mid-March. On the May 19 monitoring date, no adults were observed. On June 19, two adults were observed in the territory. There were no observed nesting activities at the known nest. It is possible there is an unidentified alternative nest in the territory. Therefore, adult presence indicated an active status, but due to the lack of nesting activities and the potential alternative nest, success was unknown. Osprey were determined to be a major disturbance to Whalen eagles during previous territory investigations. There were no observed habitat alternations.

Not Active. Three nesting territories were not active: Blessing Slough, Swan Lake, and Upper Spokane River. There were no eagles seen in these nesting territories area during the monitoring period, except for a late observation at Falls Creek.

The Blessing Slough territory was inactive in 2016, with no adults and no nests observed. There were no observed or potential disturbances or habitat alterations. It was inactive in 2015. It was active and successful in 2014.

The Swan Lake territory was inactive in 2016. There were no adults and no nest observed. No disturbances or habitat alterations were observed. Potential disturbances are from recreation. It was also inactive in 2015 and 2014.

The Upper Spokane River territory was inactive in 2016. The nest was collapsed, no adults were observed. Potential disturbances or habitat alterations that may have contributed to failure in addition to the collapsed nest include river recreation and industrial development across the river. It was active in 2015 and 2013.

Historic Territories

Territories which are not active or occupied by adult eagles for three successive years are considered historic territories. These are not included in the monitoring results. However, the location of these nests is retained in the GIS database, and the area is included in surveys for new nests.

The Harrison West territory, nest 08I10001, became a historic nest in 2016. It was a new nest in 2013. It collapsed in 2014. It was inactive in 2014, 2015, and 2016. No disturbances or habitat alterations were observed. However, the site was subject to high wind exposure. The Anderson Lake territory, nest 07I03101, became a historic nest in 2015.

At the conclusion of the 2016 investigations, a total of 33 territories were determined to be within the Monitoring Area. One new territory, Bull Run, was identified in Idaho near Rose Lake. *See Section 3.* Adjustments to the monitoring area may be made with concurrence of the

U.S. Fish and Wildlife Service (USFWS), IDFG and Washington Department of Fish and Wildlife (WDFW) during the annual coordination meeting. Alternate nest locations that have collapsed or been destroyed will remain on the maps for three complete breeding seasons, as the eagles may reoccupy the site, according to USFWS National Bald Eagle Guidelines (USFWS 2007). These alternate nest locations will be retained in the GIS database.

3.0 SURVEYS TO IDENTIFY NEW NESTS

3.1 Methods

The methods described below follow those detailed in the 2010 Plan, with a minor adjustment that extended the survey period through the monitoring period to allow for more efficient surveys.

Avista coordinates with the USFWS, IDFG, WDFW and other entities to identify potential new bald eagle territories or nests. Supplemental efforts included communications with local and nearby residents of the Project area during the course of ongoing investigations.

Survey Routes

The survey routes by watercraft followed the Project shorelines. Other surveys were conducted by land-based vehicle, watercraft, or on foot to locations where there were new observations of adult eagles. Investigators tracked adult eagles outside of known territories and looked for nests in other likely locations.

Survey Dates

Surveys were conducted on February 23, 24, 25, March 11, and April 7 during the ongoing monitoring and territory investigations, which started on February 23, 2016 and ended on July 28, 2016. Documentation for any new nest, or suspected new nest, encountered during the 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

Four new nests were located during the survey efforts (Table 3): one new nest territory and three new alternative nests. The Bull Run territory was first identified in 2016 and monitoring will begin in 2017. The new Turner Bay, Four Mound, and Northshore alternative nests were constructed in 2016 and included in the 2016 monitoring effort. These new nests are included in the GIS database along with the locations of the previous bald eagle nests (*Figures 1 and 2*). Documentation of the new nests is included in *Appendix B*.

Territory Name	Number	Latitude, Longitude	γ γιαρημός κειαπορεριή το		Notes	
NEW NEST, NEW	TERRITOR	Y				
Bull Run , ID*	07I10401	47.531159, -116.485804	No	1.6 mi. S of Rose Lake, upstream of Killarney	Active in 2016, on transmission pole	
NEW NEST, EXISTING TERRITORY						
Northshore, WA	06W10403	47.822921, -117.786500	Yes	1.25 mi. E of Northshore 06W10401	Active in 2016	
Turner Bay, ID	07I06604	47.572135, -116.784696	No	0.22 mi. WSW of Turner Bay 07I06603	Active in 2016	
Four Mound, WA	06W10502	47.844578, -117.665043	No	1.3 mi. south of Four Mound 06W10501	Active in 2016	

Table 3. 2016 New Bald Eagle Nests

* Monitoring to start in 2017

4.0 **NESTING TERRITORY INVESTIGATION**

The investigation is conducted over two consecutive years. The purpose of this investigation is to identify nesting territories and associated primary use areas, home ranges, and key use sites of all known bald eagle nesting territories that include active or alternate nests within the monitoring area. New nest territories documented during the course of annual surveys to identify new nests will be added to the scheduled investigations. Nesting territories are only omitted with mutual agreement of USFWS, IDFG, and WDFW, as appropriate.

Results of the investigations for nesting territories that are not located in the Planning Area are summarized in this Report. Site-specific Management plans are completed and included in Appendix C if nesting territories are located within the Planning Area. There were no territory investigations conducted for nesting territories in the Planning Area in 2016, as they have been completed.

4.1 Methods

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

Location of Territories

Territory locations were identified by water body; Washington or Idaho county; section, township and range; parcel owners; nearby developments; and land use.

Study Dates and Schedules

Observers collected two nesting seasons of habitat-use data at each of the nests. Observation periods were scheduled once every two weeks for each nest under investigation, from March 1 through July 31. 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 observation periods were occasionally extended into late morning hours for investigations if temperatures remained moderate.

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 and/or recorded by GPS. The information documented included: begin and end time, eagle (female, male, or juvenile), location (referenced to map or by 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 disturbance.

Observers followed nesting eagles 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. The observation locations were marked on a map or recorded by GPS.

Eagle activities, locations, and habitat features referenced during the investigation were entered into a spatially-linked GIS database after two years of investigations. Habitat use was summarized by the number of minutes each eagle spent using each habitat feature. GIS analysis was used to identify, delineate and quantify the bald eagle nesting territories, home range, primary use areas, and key use sites from the data collected during the field investigations.

Home Range, Nesting Territory, Primary Use Areas, Key Use Sites, and Disturbances

Territory size and shape are affected by topography, available tree structure and prey base. Home range is defined as the geographic area defined by movements and locations of bald eagles. The area may be defined annually, seasonally, daily or any part thereof (Montana Bald Eagle Working Group 1994). Territory observations were conducted from March 1 through July 31 during the nesting and brood rearing periods. Therefore, the home range boundaries were delineated using the extent of eagle movement during this observation period and supplemented with relevant information from other sources. Movement and location during the fall and winter were not investigated and were therefore not included as part the home range in this report.

The nesting territory includes primary use areas and key use sites occupied by eagles during the period of March 1 through July 31. Primary use areas were defined as areas occupied by eagles greater than 75% of the time during investigations. Key use sites include nests, primary perches, and roosting stands. Nesting territory boundaries were delineated by incorporating a 660-foot buffer around the active nest sites and a 300-foot buffer around the primary perches to encompass the flight patterns between these sites.

Disturbances are those activities noted during investigations or from other sources that resulted in disturbance or agitation to nesting eagles and/or reduced the quality or availability of local nesting habitat.

4.2 Results

The 2016 was the second year of the investigations for the Mica Bay, Idaho and Willow Bay, Washington territories. It was the first year of investigations for the Powerball and Riverside Launch nesting territories. *Table 4* summarizes the results of the 2015 and 2016 consecutive seasons of nesting territory investigations for the Mica Bay and Willow Bay and bald eagle territories and those from previous annual reports.

Territory Name	Territory Number	Planning Area	Nearest Active Eagle Nest	Location	Study Dates	Home Range Estimate	Nesting Territory Estimate	Disturbance to Eagles or Habitat
Lower Spokane River, WA	06W2209	No	2.1 miles	RM 33.3	2013/ 2014	208 ac.	88 ac.	Osprey, other eagles, human activities.
Post Falls Dam, ID	07I08001	Yes	5.9 miles	RM 102	2013/ 2014	201 ac.	42.5 ac.	Osprey, other eagles, construction.
Whalen, WA	06W2973	Yes	1 mile	RM 44.5	2012/ 2013	675 ac.	120 ac.	Osprey, other eagles, anglers.
Long Lake South, WA	06W2209	Yes	2 miles	RM 39.5	2012/ 2013	800 ac.	260 ac.	Other eagles, ranching operations.
Northshore, WA	06W10401	Yes	2 miles	RM 36	2014/ 2015	1247 ac.	103 ac.	Ravens, other eagles.
Suncrest, WA	06W10301	No	2 miles	RM 53	2014/ 2015	434 ac.	106 ac.	Human activities, great horned owl.
Mica Bay, ID	07I05401	No	3.5 miles	RM 117.5	2015/ 2016	567ac.	113 ac.	Residential.
Willow Bay, WA	06W10201	No	1mile	RM 45.6	2015/ 2016	966 ac.	202 ac.	Other eagles, osprey, Hwy, resort.
Powerball, WA	06W10701	Yes	2.2 miles	RM 42.5	2016/ 2017	TBD	TBD	TBD
Riverside Launch, WA	06W10601	No	1.3 miles	RM 56.6	2016/ 2017	TBD	TBD	TBD

Table 4. Bald Eagle Nesting Territory Investigation Summary

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4.3 Mica Bay Nesting Territory Investigation

Location

The Mica Bay bald eagle territory is located on the northern end of Coeur d'Alene Lake in Kootenai County. The territory is located primarily in Sections 15 and 16, Township 49 north and Range 4 west. Parcels in the bald eagle territory area are primarily private properties; however, there is one public campground and one public boat launch located within the nesting territory. The topography in the territory is generally mountainous. Habitat in the territory includes the aquatic habitat of the lake and near shore riparian; residential development at the shoreline, conifer forest, and upland areas. The topography, land use, home range, and nesting territory elements are shown in *Figure 3*.

Study Dates and Schedules

Territory observation periods in 2015 and 2016 were conducted once every two weeks from March 1 through July 31 as detailed in the Plan. A combination of morning and evening data was collected. A total of 11 territory investigations observation were conducted per year, for a total of 22 territory investigation observation dates in 2015 and 2016.

Study Methods

Study methods detailed in the Plan for investigations produced time-interval records about eagle activities, locations, habitat use, and potential disturbances in order to characterize home ranges nesting territory, primary use areas, and key use sites. The data identified disturbances or potential disturbances to nesting eagles. Background research of the territory area, annual monitoring reports, landowner communications, agency communications, and supplemental notes provided information about ongoing activities and those that may or have caused loss or degradation of habitat within a nesting territory.

Results

The results of habitat-use investigations include a brief narrative and map conveying the information about home range estimates, primary use areas, key use sites, and disturbances to nesting eagles or eagle habitat. Home ranges, nest territories, nest sites, perch trees, and night roost stands are not permanent locations and are anticipated to change over time.

Home Range Estimates

The home range is approximately 567 acres: about 2.4 miles long and up to 1.0 miles wide. The home range encompasses the northern and southern shorelines of Mica Bay and includes several primary perch locations along the southern shoreline.

Nesting Territory Estimates

The nesting territory is approximately 113 acres; about 0.3 miles wide and up to 0.8 miles long. Nesting territory boundaries were delineated on the maps incorporating primary use areas. The method to determine the nesting territory used a minimum of 300-foot buffer around primary perches and the nest location. A 660-foot buffer is a maximum buffer used at active nest sites following USFWS (2007) guidelines. The prey capture sites near the primary perches are

included in the nesting territory. The nesting territory includes three primary perches on the southern shoreline of Mica Bay.

Primary Use Areas

These areas are defined as occupied by nesting eagles greater than 75% of the time and include one nest site and three primary perches.

Key Use Sites (including nest sites, primary perches, prey capture sites, and roost stands)

Nest Sites. The 2016 active nest was located in the east portion of the nesting territory in a Ponderosa pine (*Pinus ponderosa*). This nest site has been utilized since monitoring was initiated in 2012, no alternative nest locations have been identified in the territory.

Primary Perches. The primary perch locations were all located along the southern shoreline of Mica Bay near prey capture locations.

Prey Capture Sites. Four prey capture sites were identified within the nesting territory. Aquatic areas used for prey capture were primarily along the southern shoreline.

Disturbances

Typically the eagles were not disturbed by routine activities present prior to nesting in the area such as vehicles on roads, residents, or recreation activities. No observable land use changes or construction was observed in the nesting territory during the two year investigation. This nest has successfully fledged young since monitoring began in 2012.

4.4 Willow Bay Nesting Territory Investigation

Location

The Willow Bay bald eagle territory is located along the Spokane River at river mile (RM) 45.6 in both Stevens and Spokane County, Washington. Stevens County is located east of the Spokane River center channel; Spokane County is located west of the center channel. The territory is located primarily in Section 32, Township 28 north and Range 40 east, but also extends north and south to adjacent sections. Parcel owners in the bald eagle territory area include private properties, Spokane County McLellan Conservation Area, adjacent Department of Natural Resources (DNR) and Avista-owned lands.

The topography in the territory is generally terraced from the river. To the northeast it rises steeply to the rocky outcrop of Saddle Mountain. Habitat in the territory includes the aquatic habitat of the river and near shore riparian; residential and resort development at the shoreline, managed seral conifer forest adjacent to the shore and upland areas. Most of the shoreline residences have boat docks. Highway 291 is aligned on the east shore behind the shoreline developments. Other land use in the vicinity includes the community of Tum Tum about ½ mile to the northwest, timber harvesting, a gravel pit, ranch, and farm operations.

The Willow Bay nest site is located at east extent of the territory on the west slope of Saddle Mountain at the base of the rock outcrops. The nest site is on private property above residences. Improvements near the nest include the Willow Bay Resort, residential buildings, access roads,

lawns, picnic areas, boat docks and launches. Water levels in the Spokane River and are controlled by the Long Lake HED. The topography, land use, home range and nesting territory elements are shown in *Figure 4*.

Study Dates and Schedules

Territory observation periods in 2015 and 2016 were conducted once every two weeks from March 1 through July 31 as detailed in the Plan. A combination of morning and evening data was collected. A total of 11 territory investigations observation were conducted per year, for a total of 22 territory investigation observation dates in 2015 and 2016.

Study Methods

Study methods detailed in the Plan for investigations produced time-interval records about eagle activities, locations, habitat use, and potential disturbances in order to characterize home ranges nesting territory, primary use areas, and key use sites. The data identified disturbances or potential disturbances to nesting eagles. Background research of the territory area, annual monitoring reports, landowner communications, agency communications, and supplemental notes provided information about ongoing activities and those that may or have caused loss or degradation of habitat within a nesting territory.

Results

The results of habitat-use investigations include a brief narrative and map conveying the information about home range estimates, primary use areas, key use sites, and disturbances to nesting eagles or eagle habitat. Home ranges, nest territories, nest sites, perch trees, and night roost stands are not permanent locations and are anticipated to change over time.

Home Range Estimates

The home range is approximately 966 acres: about 2.44 miles long and up to 1.2 miles wide. The home range encompasses both sides of the Spokane River, shorelines, and upland areas. A communal roosting stand used primarily by immatures is located at the tip of the peninsula opposite the community of Tum Tum. It is located at the edge of the home range, but outside of the nesting territory.

Nesting Territory Estimates

The nesting territory is approximately 202 acres; about 0.83 miles wide across Spokane River and up to 0.4 miles long. Nesting territory boundaries were delineated on the maps incorporating primary use areas. The method to determine the nesting territory used a 300-foot buffer around primary perches to encompass the flight patterns between these sites. A 660-foot buffer is a maximum buffer used at active nest sites following USFWS (2007) guidelines. The prey capture sites near the primary perches are included in the nesting territory.

The nesting territory includes three primary perches on the east side of the river near the nest and five primary perches on the west side of the river. The river width at this location is about $\frac{1}{2}$ mile. There is one remote primary perch with prey capture sites located over a mile upstream from the other primary perches. Because of the distance, the primary perch and prey captures sites are not connected to the main nesting territory boundary, but are included in the nest

territory area measurement. The primary perches, prey capture sites and roost stands were located predominantly in undeveloped areas. Habitat in the nesting territory includes the river, the associated aquatic and riparian areas, and the seral conifer stands at the shoreline and upland areas.

Primary Use Areas

These areas are defined as occupied by nesting eagles greater than 75% of the time, included two nest sites, eight primary perches, and one night roost stand.

Key Use Sites (including nest sites, primary perches, prey capture sites, and roost stands)

Nest Sites. The 2016 active nest was located in the east portion of the nesting territory in a Ponderosa pine with a broken top with some overhead canopy. This nest site was also used in 2013. It was located in a tree stand 50 feet south of the 2014 and 2015 nest site. Both nesting trees were still standing at the end of the 2016 season.

Primary Perches. The primary perch locations were taller trees with large diameters. West side primary perches were in the tallest along the shoreline. The perches were located near prey capture sites and had a good view of the nest and nest territory. The primary perches did not change during the two year investigation.

Prey Capture Sites. Eight prey capture sites were identified within the nesting territory. Aquatic areas used for prey capture were primarily along the west shoreline. Fish were the prey species most commonly observed. Upland prey capture sites were mostly near the nest these included both a ground squirrel and tree squirrel carried to the nest. An adult eagle was observed feeding at a deer carcass off of Highway 291. Potential prey species include waterfowl, turkey, quail, and pocket gophers.

Roost Stands. There was one night roost stand utilized during the two year investigation. It is located northeast of the nest in a conifer thickets with north aspect.

Disturbances

Typically the eagles were not disturbed by routine activities present prior to nesting in the area such as vehicles on roads, residents, or the resort recreation activities. No observable land use changes or construction was observed in the nesting territory during the two year investigation. This nest has successfully fledged young since monitoring began in 2014.

Disturbances noted below are listed according to highest frequency. The activities were either observed during investigations to disturb nesting eagles, or to have the potential to disturb the nesting eagles.

Competition from Other Eagles. In 2016, other eagles were observed to be the most frequent disturbance of the nesting pair. Immature eagles were present flying through the nesting territory during incubation and brooding. Later during the nesting period they were observed flying overhead along the home range territory margins. Other adult eagles were present during the fledging period. Their presence in the nesting territory and home range resulted in vocalizations and territory defense behavior by the nesting pair. In 2016 a pair of adult eagles were observed disturbing the nesting pair on three occasions. This competition may be due to the proximity of the Whalen nest and territory. The Whalen nest is only

0.35 miles at closest proximity to the edge of the Willow Bay home range. The nests are only about one mile apart and are visible to each other. Additionally, the communal nesting is located at the north extent of both territories.

Osprey. Ospreys were also observed to be a frequent disturbance of the nesting pair in 2015 and 2016. They were first observed in the Project area in early June. By this time the eagle pair had been through courtship, nest-building, incubation, and juveniles were perching at the nest edge. There were two documented osprey nests in the territory during the investigation. In 2015 the osprey from the west side nest were regularly observed vigorously driving and flushing the eagles from the nearby primary perches. This osprey nest was abandoned in 2016. Another osprey nest was in the small bay south of Willow Bay Resort in 2015 and 2016. These osprey were observed frequently hunting the river or flying near the eagle nests. The eagles responded with vocalizations.

Potential Predators or Competition. Great blue heron, ravens, Cooper's hawk, and turkey vultures were observed and heard within the nesting territory in both 2015 and 2016. There were no disturbances observed. An adult Canada goose was observed circling and diving at the incubating eagle in mid April 2015 for about two minutes. At that time there were geese with hatchlings near shore at the resort. Goslings may have been taken as prey. The eagle watched the goose but did not vocalize or move.

Human Activity. Although the Willow Bay Resort was located below the nest site and partially within the nesting territory, there were no observed disturbances to the nesting pair. The resort provided camping, swimming, fishing, and a boat launch facilities. Walkers with dogs were also observed in the nesting territory (along roadways and trails) and the home range. The highest occupancy of the resort began in early July when the nestlings first fledged. In 2015, one of the two fledglings repeatedly stayed near a sprinkler at the north end of the resort during the 4 of July holiday. The resort personnel put up road barricades to keep visitors away from this area. Both fledglings were later observed perching elsewhere in the nesting territory. Traffic is continual along Highway 291, located along the east side of the home range and nesting territory.

Avista Project Operations. There were no Avista infrastructure elements located in the Willow Bay home range or nesting territory with the exception of utility lines to the residential and commercial areas.

5.0 **REFERENCES**

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- US Fish and Wildlife Service (USFWS) 2007. National Bald Eagle Management Guidelines. U.S. Fish and Wildlife Service. May 2007. <u>https://www.fws.gov/pacific/eagle/all_about_eagles/Bald_Eagle_Management_Guidelines.htm</u> <u>l. Retrieved September 28, 2016.</u>

FIGURES



Document Path: H:\Nest Sites, Eagle, other\2016 bald eagle Lee Stragis\2016-Idaho_Overview.mxd | 12-14-2016 | David Evans and Associates, Inc.

Avista-Owned Land/Planning Area Surface Land Management/Ownership Idaho Department of Fish and Game Idaho Department of Parks and Recreation **Bald eagle nest location data are confidential and are not for public circulation**

Avista (HED areas, land ownership), USDA-NRCS (quadrangle county mosaics), Bureau of Land Management (surface land management), WDFW (bald eagle locations), David Evans and Associates, Inc. (bald eagle locations), Background Service Layers: ESRI, DeLorme, NAVTEQ, TomTom,

FIGURE 1 **BALD EAGLE NESTING LOCATIONS** ASSOCIATED WITH WATERS IMPOUNDED BY THE SPOKANE RIVER PROJECT IN IDAHO AVISTA/ECOLOGY 401 CERT/WA







APPENDIX A

2016 OCCUPANCY AND MONITORING FORMS

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Pa	age of SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000) BALD EAGLE NEST MONITORING FORM	
I.	ID 20_/6	
	Territory Name: Ahrs Creek Territory/Nest Number: 077 10301 Observer Initial: DA Reviewer I	nitial: <u>LS</u>
II.	SURVEY SUMMARY	
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	Status Code) Successful
	Nest Condition Code □ (1) New □ (2) Good □ (3) Fair □ (4) Poor □ (5) Nest Destroyed:) 0000033101
	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)	y ouccessiul

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)	2/23/16	Good		IAD	PER		roung
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	4/1/16	Good		1 AD	PER		
Determine Productivity June 15 – July 31 (late nestling and fledging)	6/1/16	Good		140	PER	1	JUV

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Page	of SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000) BALD EAGLE NEST MONITORING FORM
Ι.	20 <u>16</u>
	Territory Name: <u>Blessina</u> Territory/Nest Number: <u>07I 076 01</u> Observer Initial: <u>DA</u> Reviewer Initial: <u>LS</u>
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	Nest Condition Code] (1) New] (2) Good] (3) Fair] (4) Poor] (5) Nest Destroyed: <u>novest</u> .not confirmed
	Nesting Determination (1) Status Unknown 💢 (2) Not Active 🗌 (3) Nest Abandoned 🔄 (4) Active, Not Successful 🗌 (5) Active, Success Unknown 🗌 (6) Successfu
	Number of Fledglings:
III.	SURVEY RESULTS

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	Territory Name: <u>Councer Bay</u> Territory/Nest Number: <u>071 035 02</u> Observer Initial: <u>DA</u> Review	ver Initial: <u>45</u>
	Survey Code	ty Not Determined
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	Number of Fledglings: 2 young (at or near fledging age)	

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)	2/23/16	Good		9			
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SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000) BALD EAGLE NEST MONITORING FORM

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	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)

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I.	ID
	Territory Name: Fernan Lake Territory/Nest Number: 07I03401 Observer Initial: DA Reviewer Initial: LS
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	Nesting Determination (1) Status Unknown (2) Not Active (3) Nest Abandoned (4) Active, Not Successful (5) Active, Success Unknown (6) Successful

_young (at or near fledging age)

Number of Fledglings:____

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
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	Territory Name: <u>Hepton Lake</u> Territory/Nest Number: <u>071/0101</u> Observer	Initial: <u>DA</u> Re	eviewer Initial: <u>LS</u>
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	Territory Name: <u>Heuburn State</u> Territory/Nest Number: <u>07I_05702</u> Observer Initial: <u>DA</u> Reviewer Initial: <u>TA</u> Reviewer Initial: <u>DA</u> Reviewer Initial: <u>DA</u> Reviewer Initial: <u>TA</u> Reviewer Initial: <u>DA</u> Reviewer Initial: <u>DA</u> Reviewer Initial: <u>DA</u> Reviewer Initial: <u>Reviewer</u> Initial: <u>DA</u> Reviewer Initial: <u>Reviewer</u> Initial:	tial: <u>}</u>
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	Territory Name: Hey b	JULIN St	ate Territory/N	est Number: 07 <u>7</u> (75701	Observer Initial: <u>DA</u> Re	viewer Initia	:45			
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m.	SURVEY RESULTS										
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١.	ID
	Territory Name: <u>Killarney Lake</u> Territory/Nest Number: <u>07I01702</u> Observer Initial: <u>DA</u> Reviewer Initial: <u>LS</u>
II.	SURVEY SUMMARY
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	Status Code
	Nest Condition Code
	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)

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						In the Industry of the	
February 1 – March 31			New York Contraction Contraction				
(pre-egg laying and early incubation)	2/25/16	Good		2A0	PER/INC		
Update Nesting Status							
April 1 – June 15 (late incubation and nestlings)	5/10/16	6000		1 AD	PER	2	
All States		STELLS A TOTAL PROPERTY	en og and sen over og er er b				
Determine Productivity				and the set of the set			
June 15 – July 31 (late nestling and	6/1/16	Bood		1 AD	PER	2	JUN
fledging)		n " nad di kap	Net?				
1				54 H			

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Page	1	of	1

GLE NEST MONITO 20<u>/6</u>

I. ID

П.

Territory Name: MICA Bay Territory/Nest Number: 07705401 Observer Initial: DA Revi	ewer Initial: <u>LS</u>
SURVEY SUMMARY	
Survey Code (1) Not Checked (2) Not Located (3) No Initial Occupancy Determination (4) No Nesting Status Update (5) Productive (6) Complete Survey, Productivity Determined	ivity Not Determined
Status Code	(7) Successful
Nest Condition Code □ (1) New □ (2) Good □ (3) Fair □ (4) Poor □ (5) Nest Destroyed:	annen in the second sec
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)	

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)	2/23/11	, Good		2 AD	PER		
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	5/11/16	Good		IAD	PER	1	
Determine Productivity June 15 – July 31 (late nestling and fledging)	6/16/1	6 Good	9	2.AD	PER		

of	1
	of

20/6

١. ID

	Territory Name: Post Falls Dam Territory/Nest Number: 07I08001 Observer Initial: DA Reviewer Initial: LS
П.	SURVEY SUMMARY
	Survey Code (1) Not Checked (2) Not Located (3) No Initial Occupancy Determination (4) No Nesting Status Update (5) Productivity Not Determine (6) Complete Survey, Productivity Determined
	Status Code
	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: <u>1</u> young (at or near fledging age)

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	1110 antimoto de la		Hilling the spreament framework			Toung	Toung
February 1 – March 31					a 2000 Bio Internet Districtions and sub-		1000000
(pre-egg laying and early	and when the same	Contastant for Second	section and the sector of	the second second second second		N	
incubation)	3/11/16	Good		2AD	PER	-	
Update Nesting Status	///				161		
April 1 – June 15							
(late incubation and nestlings)	5/11/16	Good		1-A-D	PER		
Determine Productivity	in a serie concern						
June 15 – July 31 (late nestling and	6/16	Good		1AD	PER	1	JUN
fledging)		यत्रात्व के राजवंध			a same of the	9	

				C
Pa	age of SPOKANE RIVER HYDROELECTRIC PROJECT Bald Eagle Nest Monit 20/6	(FERC Nos. 2545-091 and 12 roring Form	606-000)	
١.				
	Territory Name: <u>Rainy Hill</u> Territory/Nest Number: 071 C	07402 Ob	server Initial: <u>DA</u> Rev	viewer Initial <u>: </u>
11.	SURVEY SUMMARY			
	Survey Code ☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determinatio ☑ (6) Complete Survey, Productivity Determined	on 🔲 (4) No Nesting Status I	Update 🗌 (5) Produc	ctivity Not Determined
	Status Code □ (1) Unoccupied □ (2) Other Species □ (3) Single Adult ☑ (4) O	Occupied 🛛 🕅 (5) Active	🔀 (6) Unsuccessful	(7) Successful
	Nest Condition Code ☐ (1) New ☐ (2) Good ☐ (3) Fair ☐ (4) Poor 😡 (5) Nest Dest	troyed: <u>between</u>	2/25 and 51	10
	Nesting Determination (1) Status Unknown (2) Not Active (3) Nest Abandoned (4) Active (4) Active (5)	tive, Not Successful 🛛 (5) A	Active, Success Unknow	n 🔲 (6) Successful
	Number of Fledglings: young (at or near fledging age)			

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)	2/25/16	good		1AD	PER	ø	
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	5/10/16	deshoye	d-collapse-in	cottonwood			
Determine Productivity June 15 – July 31 (late nestling and fledging)	6/1/16	destroy	20	1		Ý	

No AD after 2/25 sighting

	(
Pa	e of SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000) BALD EAGLE NEST MONITORING FORM	
I.	20 <u>16</u>	
	Territory Name: Rose Lake Territory/Nest Number: 071 019 02 Observer Initial: DA Reviewer Initial: L	S
П.	SURVEY SUMMARY	
	Survey Code (1) Not Checked (2) Not Located (3) No Initial Occupancy Determination (4) No Nesting Status Update (5) Productivity Not Determined (4) Complete Survey, Productivity Determined	ned
	Status Code (1) Unoccupied (2) Other Species (3) Single Adult (4) Occupied (5) Active (6) Unsuccessful (7) Successful	ful
	Nest Condition Code	
	Nesting Determination (2) Not Active (3) Nest Abandoned (4) Active, Not Successful (5) Active, Success Unknown (6) Success	ful
	Number of Fledglings: young (at or near fledging age)	

OBSERVATION	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)	4/7/16	good		¢			
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	5/11/16	good.		1 AD PER r	bar nest whee	Þ	
Determine Productivity June 15 – July 31 (late nestling and fledging)	c/1/10	poor		140	PER	ļ	
1	AD rea	r nest thee	active, no The	on JUV observed	= not successful	2	

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Page	of	1

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11.

Territory Name: St. Maries Te	erritory/Nest Number:	07 I 04301	Ob	oserver Initial: <u>DA</u> Re	viewer Initial: <u>45</u>
SURVEY SUMMARY					
Survey Code ☐ (1) Not Checked ☐ (2) Not Located ☐ (3 ☑ (6) Complete Survey, Productivity Determin		etermination 🗌 (4)	No Nesting Status	Update 🗌 (5) Produc	ctivity Not 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	🗌 (4) Poor 🛛 🗍 (5	i) Nest Destroyed:	2) 21	When - Ye Y - 4 and 2004 A character 200	en-endlander II. der Ausst Officer-Confer
Nesting Determination (1) Status Unknown (2) Not Active	(3) Nest Abandoned	(4) Active, Not St	uccessful 🕅 (5)	Active, Success Unknow	n 🔲 (6) Successful
Number of Fledglings: UNK young (at	or near fledging age)				

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)	2/24/16	Good		2 AD	PER		
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	5/10/16	Good		1AD	INC		
Determine Productivity June 15 – July 31 (late nestling and fledging)	6/1/16			IAD	PER	UNK	
could ne	it see	. clearly	into cottonu	bood stand	for juven	iles,	

Page	of /
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2016

I. ID

П.

Territory Name: Swan Lake Territory/Nest Number: 07I 02002 Observer Initial: DA Reviewer Initial: LS
SURVEY SUMMARY
Survey Code (1) Not Checked (2) Not Located (3) No Initial Occupancy Determination (4) No Nesting Status Update (5) Productivity Not Determine (6) Complete Survey, Productivity Determined
Status Code
Nest Condition Code (1) New (2) Good (3) Fair (4) Poor (5) Nest Destroyed: <u>no nest observed</u> no AD
Nesting Determination (1) Status Unknown 🕅 (2) Not Active 🗌 (3) Nest Abandoned 🔲 (4) Active, Not Successful 🗌 (5) Active, Success Unknown 🗋 (6) Successful
Number of Fledglings: O 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)	2/25/16	no nest		ø			
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	5/10/16	no nest		Å		3	
Determine Productivity June 15 – July 31 (late nestling and fledging)	6/1 /16	no nest		4			

no adults = not active

	((
Pa	age of SPOKANE RIVER HYDROELECTRIC PROJE BALD EAGLE NEST M 20 /	IONITORING FORM	2606-000)	
I.	ID Territory Name: <u>Turner Bay</u> Territory/Nest Number: <u>071</u>		bserver Initial: <u>DA</u> Rev	viewer Initial: <u>LS</u>
11.	SURVEY SUMMARY			
	Survey Code (1) Not Checked (2) Not Located (3) No Initial Occupancy Determined (1) Complete Survey, Productivity Determined	nation 🔲 (4) No Nesting Status	Update 🗌 (5) Produc	tivity Not 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:	and a second and a second second second	
	Nesting Determination (1) Status Unknown (2) Not Active (3) Nest Abandoned (4)) Active, Not Successful 🛛 (5)	Active, Success Unknow	n 🗖 (6) Successful
	Number of Fledglings: young (at or near fledging age)			

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)	2/23/1	6 600d		2 AN	PER		
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	5/11/16	Good		1 AD	PER	1	
Determine Productivity June 15 – July 31 (late nestling and fledging)	6/16/16	Good				2	200

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Pa	age of	SPOKANE R	IVER HYDROELECTRIC BALD EAGLI	E NEST MONITORING FOR		2606-000)	
Ι.	ID			20_/6			
	Territory Name: Tu	itte hake	Territory/Nest Number:	07I 02402	<u>) </u>	bserver Initial: <u>DA</u> Rev	viewer Initial:S
11.	SURVEY SUMMARY						
	Survey Code ☐ (1) Not Checked ☐ ⊠ (6) Complete Surve] (2) Not Located 🛛 y, Productivity Determ	(3) No Initial Occupancy ined	Determination 🗌 (4)	No Nesting Status	Update 🗌 (5) Produc	tivity Not Determined
	Status Code	(2) Other Species	(3) Single Adult	(4) Occupied	🔀 (5) Active	🗌 (6) Unsuccessful	☑ (7) Successful
	Nest Condition Code		(4) Poor	(5) Nest Destroyed:			
	Nesting Determinatio		(3) Nest Abandoned	(4) Active, Not S	uccessful 🗌 (5)	Active, Success Unknow	n 🔀 (6) Successful
	Number of Fledglings	s:/ young (a	t or near fledging age)				i en al fait fait

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	2/24/16	Good		11A0	PER		
February 1 – March 31				1 AD thingh	ighabove	enetsellantonecourse?	
(pre-egg laying and early incubation)		al and a set of the set		0.0	<u> </u>		
Update Nesting Status							
April 1 – June 15 (late incubation and nestlings)	4/7/16	Good		1.40	INC		
والمسيمة الكام ومكافق				Stars and			
Determine Productivity				a hard a state in the			
June 15 – July 31 (late nestling and fledging)	6/1/16	Good		ZAD	PER	I	JUK
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1. ID

	Territory Name: Upper Spakane Territory/Nest Number: 07I10201 Observer Initial: 0A Reviewer Initial: 45
11.	SURVEY SUMMARY Kider
	Survey Code (1) Not Checked (2) Not Located (3) No Initial Occupancy Determination (4) No Nesting Status Update (5) Productivity Not Determin (6) Complete Survey, Productivity Determined
	Status Code
	Nest Condition Code
	Nesting Determination (1) Status Unknown 🕅 (2) Not Active 🗌 (3) Nest Abandoned 🔲 (4) Active. Not Successful 🔲 (5) Active Success Unknown 🔲 (6) Successf

III. SURVEY RESULTS

Number of Fledglings:

0

___ young (at or near fledging age)

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)		opllapsed	9	þ			
Update Nesting Status April 1 – June 15 (late incubation and nestlings)			*				
Determine Productivity		······					, /
June 15 – July 31 (late nestling and fledging)	6/23/14	e na legere e Marie e e e e		tie Na	and and a second second		
				1. A. A			4 g g 4 - 2 - 1

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Pag	Je of	SPOKA	NE RIVER HYI		E NEST MONITOR	RC Nos. 2545-091 and ING FORM	12606-000)		
I.	ID				20_/6				
	Territory Name: <u>Win</u>	dy Bay	Territory/N	lest Number:	08I00	103	Observer Initial: <u>DA</u> Re	eviewer Initia	1:
П.	SURVEY SUMMARY	0 0							
	Survey Code □ (1) Not Checked □ (☑ (6) Complete Survey	2) Not Located , Productivity D	☐ (3) No Ini etermined	tial Occupancy	Determination	(4) No Nesting Stat	us Update 🛛 (5) Produ	ctivity Not D	etermined
	Status Code (1) Unoccupied [] (2) Other Sp	ecies 🗌 (3)) Single Adult	(4) Occi	upied 🔀 (5) Active	(6) Unsuccessful	[_/(7) Sι	uccessful
	Nest Condition Code	ood 🗌 (3)	Fair 🗌 (4	4) Poor 🔲 ((5) Nest Destroy	ed:			
	Nesting Determination (1) Status Unknown		tive 🔲 (3) N	est Abandoned	(4) Active	, Not Successful 🗌 (5) Active, Success Unknov	vn 🛛 (6) Si	uccessful
	Number of Fledglings:	you	ing (at or near f	ledging age)					
III.	SURVEY RESULTS								
		Date	Nest	Nesting A	Charles and the second s	Adult Presence /	Incubation/Brooding	Number of	Stage of

PERIOD	Checked	Condition	(construction etc.)	Behavior	Posture	Young	Young
Initial Determination of Occupancy February 1 – March 31 (pre-egg laying and early incubation)	2/24/16	Good		ZAD	PER		
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	3/10/16	Good	2 	20	PER		
Determine Productivity June 15 – July 31 (late nestling and fledging)	6/1/16	Good		ø		2	JUL

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Pag	ge of SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000) BALD EAGLE NEST MONITORING FORM 20 16
۱.	ID
	Territory Name: Charles MagsTerritory/Nest Number: 06 W 305 04Observer Initial: DAReviewer Initial:
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
	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)

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)	3/16/16	Good		Þ	~		
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	4/12/16 5/19/19			7 1 AD	PER	6	
Determine Productivity June 15 – July 31 (late nestling and fledging)	7/8	good		Þ		2	JUV

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Page	e of SPOKANE RIVER HYDROELECTR BAID FAG	IC PROJECT (FERC No	s. 2545-091 and 1	2606-000)	
I.	ID	20 <u>//6</u>			
	Territory Name: Deep Creek Territory/Nest Number:	06 W 109 C	0	oserver Initial: <u>DA</u> Rev	viewer Initial: <u>45</u>
П.	SURVEY SUMMARY				
	Survey Code (1) Not Checked (2) Not Located (3) No Initial Occupance (6) Complete Survey, Productivity Determined	y Determination 🛛 (4)	No Nesting Status	Update 🗌 (5) Produc	tivity Not 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 Abandone	d (4) Active, Not S	uccessful 🕅 (5)	Active, Success Unknow	n 🔲 (6) Successful
	Number of Fledglings:	Salat	ця. («)		

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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)	3/10/16	Good		*2 AD flying in territory=act			
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	4/12/16	6000		ø			
Determine Productivity June 15 – July 31 (late nestling and fledging)	7/8/16 possit	Good	rotative location	2AD PER, not on for active		and up	
	dithoug	h monito .55 unk	red.		a. 9 204	95	

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Page	age of SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos Bald Eagle Nest Monitoring Form 20_//_))	
	ID Territory Name: FOUR Mound Territory/Nest Number: 064 1050	2Observer Ir	nitial: <u></u> Rev	iewer Initial: <u>75</u>
11.				
	Survey Code ☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) I ⊠ (6) Complete Survey, Productivity Determined	No Nesting Status Update	(5) Product	ivity Not 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 Su	uccessful 🗌 (5) Active, S	Success Unknowr	I 🕞 (6) Successful
	Number of Fledglings: young (at or near fledging age)			

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	03/16/16	at	last years rest		Ø		
February 1 – March 31 (pre-egg laying and early incubation)	5-1-2/2		0				
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	5/19/16	at	new alt nest	1 AD	PER	1 from ph	JUV oto-25
Determine Productivity June 15 – July 31 (late nestling and fledging)	6/21/16			IAD	PER	\	JUV

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SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000) BALD EAGLE NEST MONITORING FORM 20<u>16</u>

ID ١.

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			1
Territory Name: Lona Lake South Territory/Nest Number: 06W	22010	_Observer Initial: DA_	_Reviewer Initial:
đ	3.4 . 0		
SURVEY SUMMARY			

Survey Code

 □ (1) Not Checked [☑ (6) Complete Surv 	(2) Not Located () vey, Productivity Determi	(3) No Initial Occupancy [ned	Determination	(4) No Nesting Status	s Update ॑॑॑ (5) Produc	tivity Not Determined
Status Code	(2) Other Species	🗌 (3) Single Adult	🗌 (4) Occupie	d 🛛 🙀 (5) Active	🗌 (6) Unsuccessful	(7) Successful

Nest Conditi (1) New	on Code	🗌 (3) Fair	🕅 (4) Poor	□ (5) Nest Destroyed:		
Nesting Dete	unknown] (2) Not Active	🗌 (3) Nest Aband	loned	🔀 (4) Active, Not Successful	🗌 (5) Active, Success Unknown	🗌 (6) Successful
Number of F	ledglings:	ø young (a	t or near fledging a	ge)			

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)	3/16/16	aond		2 AD	PER, INC		
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	5/19/1	good		1 AD	PER		
Determine Productivity June 15 – July 31 (late nestling and fledging)	6/19/16	poor-c	lamaged	1 AD	PER	Ø	

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Page	I of 2
. age	

2016

ID 1.

П.

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Territory Name: Lower Spokane Territory/Nest Number: 06 W 10101 Observer Initial: LS Reviewer Initial: 0 A
SURVEY SUMMARY
Survey Code (1) Not Checked (2) Not Located (3) No Initial Occupancy Determination (4) No Nesting Status Update (5) Productivity Not Determined
Status Code
Nest Condition Code (i) Succession [] (1) New [] (2) Good [] (3) Fair [] (4) Poor [] (5) Nest Destroyed: [] Nesting Determination [] (3) Fair [] (4) Poor [] (5) Nest Destroyed:
(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)
SURVEY RESULTS Nest within AUST boundary

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	3/2/16	Good	New, in alt. nest	AD/Per	Perchedan nest	Toung	roung	photo
February 1 – March 31	3/28	1.	0	AD	Incubating	1	1	1
(pre-egg laying and early incubation)	्राण्ड्रियो। क्या १९४४	NUM PERMIT	ter a register ""		5			-
Update Nesting Status April 1 – June 15	4/29	11	active	2AD el nest	FY feed young	1(+3)	Darba	had
(late incubation and	const	Inuction	actue below.	tam, N. SiDe of	rues deastext	ent d t	ouritery	10000
nestlings)	5/24	p	active	AD, Adult food		20)
Determine Productivity	1011	fair-1	4	Charles and		darkhead	2. (body	2/3 size
June 15 – July 31	6/24	2002 ·	active	2 ADa dounction	im perches	/ Direct	3 full s	120)
(late nestling and fledging)	only 7/19	fair of	esperred, other in no	st or fledged (Villow Bay had at	ida tod	ay)	all
	sear	th area	under nest-	lots of white	wash. Do A	averass	FILLO	CA
and X	-assu brid	ge-clo	our to construct		VGL. Saw 13) across from	UV Eau Consta	0	(4)5min
2 from const	> in the	d in terr	Parkedge sha	a line, Acclima	to to human ac			2

Page <u>2</u> of <u>2</u>

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River Territory/Nest Number:___ Lower Spokana

SUPPLEMENTAL NESTING INFORMATION (If known) IV.

e of adult arrival: prior to 3/2		
	Date of adult dispersal:	
	Clutch size:	
te of egg laying: phior to 3/28	Date (Number of	
Date of hatching: prior to 4/28	fledglings at dispersal: prior to 7/19	
Date of fledging: Ist onlar to 6/24	Banding data:	
ATIVE INFORMATION		
ng attempt failed (Yes/No), date/nesting period of failure:		
n fan failuna		
on for failure:		
Abandoned (Yes/No), date:		
on for abandonment:		
rbing Activities (record type, duration, and proximity to nest)	Construction 2016	
I mailen reason in	O DECTRUM	
anway, restaction, rectulation	n, asprey	
\bigcirc 0^{*}		
at Alterations (record type, extent, and proximity to nest)		
£.		
ing Dicturbances (record type optent and provimity to pest)		
ing Disturbances (record type, extent, and proximity to nest)		
ing Disturbances (record type, extent, and proximity to nest)	a/16	
and uction on going thru 7/19	9/16	· · · · · · · · · · · · · · · · · · ·
instruction and going thru 7/19	q/16	
instruction and going thru 7/19	9/16	
y: f. Strags	9/16 Date:	
instruction and going thru 7/19	9/16	

Pag	e of SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000) BALD EAGLE NEST MONITORING FORM
	20/6
l.	
	Territory Name: North Shore Territory/Nest Number: 06W10463 Observer Initial: DA Reviewer Initial: LS
11.	SURVEY SUMMARY TOGW 10402-collapsed
	Survey Code (1) Not Checked (2) Not Located (3) No Initial Occupancy Determination (4) No Nesting Status Update (5) Productivity Not 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: <u>C6 dp>ed by 6 /21</u>
	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)

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	3/16	Good		2 AD	PER/INC		. cuilg
February 1 – March 31							
(pre-egg laying and early incubation)					-		-
Update Nesting Status April 1 – June 15 (late incubation and	5/19	Good	· · · · · · · · · · · · · · · · · · ·	1 AP		1	JUN
nestlings)							
Determine Productivity June 15 – July 31 (late nestling and fledging)	6/27	destroy	ed				
			2				
with JUV, we	ican a	ssumef	6	ow Bay had s	imilar neeting	activ	ityo

	(
	ge /_ of SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000) BALD EAGLE NEST MONITORING FORM 20 <u>//6</u>
1.	ID Territory Name: Powerball
П.	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
	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

____ young (at or near fledging age)

III. SURVEY RESULTS

Number of Fledglings:_

2

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	3/1/16	good	· construction	2 A D n	ø		
February 1 – March 31	3)15	<i>○ ∥</i>	done	2 AD	inc		
(pre-egg laying and early incubation)	3/30	11		- <i> </i>	//		
Update Nesting Status	4/15			I '	inc/brd		la
April 1 – June 15	4/27	11	1/	11	brd	i	là/b
(late incubation and nestlings)	5/10	1.	1)	1.	brd	2	lalb
	5/25	11	10	11	brd	2	3
Determine Productivity	6/7/	. 1*	· · · · · · · · · · · · · · · · · · ·	11	brd	22	N
June 15 – July 31	6/22	11	1 *	1.	11	2	341
(late nestling and fledging)	7/7	18	10	11	8		fldg
	7/20	fair		11		2	Add

Page 2 of 2

Territory/Nest Number:_____Powerball

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

-			21,1.1		
	Date of adult arrival:	prior to	3/1/16	Date of adult dispersal:	
-	Date of egg laying:	11 11	3/15	Clutch size:	2
	Date of hatching:	11 1.	4/15	Date/Number of fledglings at dispersal:	7/20/17
L	Date of fledging:	11 11	7/7	Banding data:	/ /
N	IARRATIVE INFORMAT	ION			
N	lesting attempt failed (`	(es/No), date/nest	ing period of failure:		
F	Reason for failure:				
	lest Abandoned (Yes/N				
	x e e e e e				
R	leason for abandonme	ıt:			
_					
D) isturbing Activities (re	cord type, duratio	n. and proximity to neg	st)	
			·, ··· , ··· , ··· , ··· ,		
-		annan an Reist Linten an Allenderen			
Н	labitat Alterations (reco	rd type, extent, ar	nd proximity to nest) _	Powertines	
_		· · · · ·		h a h a t	
C					terb in river ospreu
	= 2 nesto i	n tomitoru	1 starlings	- fimi paverline boll	S a nest during incultation??
		(51 0		All the second se
10000	0 0	Lacts		and a second	0/0/11
- epare	ed by:	NICI CI L			Date: X / 0 / / L
•	ed by: /ed by:	agis			Date: <u></u> Date:

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Pag	e of SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000) BALD EAGLE NEST MONITORING FORM 20_/6	
۱.	ID	
	Territory Name: Riverside Launderritory/Nest Number: 06W 106 01 Observer Initial: DA_Reviewer Initial: 15	
П.	SURVEY SUMMARY	
	Survey Code (1) Not Checked (2) Not Located (3) No Initial Occupancy Determination (4) No Nesting Status Update (5) Productivity Not Determined (3) (6) Complete Survey, Productivity Determined	∍d
	Status Code (1) Unoccupied (2) Other Species (3) Single Adult (4) Occupied (5) Active (6) Unsuccessful (7) Successful	ıl
	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 (6) Successful	ı
	Number of Fledglings: young (at or near fledging age)	

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	03/17/16	Good		.1_AD	INC		
February 1 – March 31							1000-100-100-100-100-100-100-100-100-10
(pre-egg laying and early incubation)							e T
Update Nesting Status	4/12/16	Good		IAD	INC		
April 1 – June 15 (late incubation and nestlings)	5/19/16	Good		1 AD	PER	ી	JUV
Determine Productivity							
June 15 – July 31 (late nestling and fledging)	6/21/16	Good				2	JUV
neuging)	7/28/16	Good				2	fleda.

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Pag	ge of SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000) BALD EAGLE NEST MONITORING FORM	
I.	ID 20_16	
	Territory Name: <u>Sportsman</u> Territory/Nest Number: <u>06W10801</u> Observer Initial: <u>D</u>	A_Reviewer Initial: <u>LS</u>
П.	SURVEY SUMMARY	
	Survey Code (1) Not Checked (2) Not Located (3) No Initial Occupancy Determination (4) No Nesting Status Update (5) (6) Complete Survey, Productivity Determined	5) Productivity Not Determined
	Status Code (1) Unoccupied (2) Other Species (3) Single Adult (4) Occupied (5) Active (6) Unsuc	ccessful 🛛 📈 (7) Successful
	Nest Condition Code	
	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)	₹ 2.5.8.2

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)	3/16/16	Good		<u>1</u> A/D	PER.		
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	5/19/16			1AD	PER		JUL
Determine Productivity June 15 – July 31 (late nestling and fledging)	6/19/16			1 AD	PER	1	JUL

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Page	e of SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000) BALD EAGLE NEST MONITORING FORM 20	
	ID Territory Name: <u>Suncrest</u> Territory/Nest Number: <u>06W</u> 103 01Observer Initial: <u>DA</u> Revi	ewer Initial:
II.	SURVEY SUMMARY	
	Survey Code Image: Survey Code	ivity Not Determined
	Status Code	∑ (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)	

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)	3/16/16	Good		JAD.	PER	100001205	
Update Nesting Status April 1 – June 15 (late incubation and nestlings)	5/19/16	Good		JAD	PER	1	ZOV
Determine Productivity June 15 – July 31 (late nestling and fledging)	6/21/16	Good		1.AD	PER	1	JUV

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Pag	e of SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000) BALD EAGLE NEST MONITORING FORM	
I.	1D 20/6	
	Territory Name: (Dhalen Territory/Nest Number: 06W 297 03Observer Initial: DA_Reviewer Initial:_	15
11.	SURVEY SUMMARY	
	Survey Code (1) Not Checked (2) Not Located (3) No Initial Occupancy Determination (4) No Nesting Status Update (5) Productivity Not Determination (6) Complete Survey, Productivity Determined	ermined
	Status Code	cessful
	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 (6)	cessful
	Number of Fledglings: young (at or near fledging age)	

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	3/16/16	Good		1 AD	PER		
February 1 – March 31							
(pre-egg laying and early incubation)							
Update Nesting Status	5/19/16	Good		Ø	ø		
April 1 – June 15	1 1						
(late incubation and nestlings)							
Determine Productivity	6/19/16	Good		2 AD in tani	tory Ø		
June 15 – July 31	, ,				/ /		
(late nestling and fledging)							

2 Ad. in territory during next season sactive no inc or JUV observed - else where, another next? This pair closen to Willow Bay next territory this year.

Pa	ge of SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000) BALD EAGLE NEST MONITORING FORM	
Ι.	1D 20 <u>16</u>	
	Territory Name: WILDW Bay_ Territory/Nest Number: 06W 10261Observer Initial: LS_Reviewer Initial:	DA
П.	SURVEY SUMMARY	
	Survey Code (1) Not Checked (2) Not Located (3) No Initial Occupancy Determination (4) No Nesting Status Update (5) Productivity Not Dete (6) Complete Survey, Productivity Determined	rmined
	Status Code	essful
	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) Succ	cessful
	Number of Fledglings: 2 young (at or near fledging age)	a ar

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	20/16	good	done	countiship 2 AD	the	¢	ø
February 1 – March 31	316/16	U JI	h	INC/ 2AD	inc	f9	· · ·
(pre-egg laying and early	3/28	In Parts Room			1	4	
incubation)	/	_		83			
Update Nesting Status	4/16		11	(1	inc induhate		1
April 1 – June 15	41/28	0	11	3 AD	had	0	1.1
(late incubation and nestlings)	51,13	1.1				- .	10/1 1/200
these of soc busies	618/16	/<	<i>i</i> ,	4 ·	1	11	2016
Determine Productivity	623	V']]	11	1	-1 c	2	2/1
June 15 – July 31	7/6	11	11	/1	t i	5	Lot El
(late nestling and fledging)	7/19	1	17	/1		3	Flad Flad
	/	12			14 A.		iga

Page 2 of 2

Territory/Nest Number: Willow Bay

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

	Date of adult arrival: Prior to 3/2	Date of adult dispersal:	
	Date of egg laying: " " 3/16 lone ear	Clutch size:	2
	Date of hatching: " 4/16 (1st)	Date/Number of fledglings at dispersal:	a prior to 7/6
	Date of fledging: first " 6/23	Banding data:	<u> </u>
1.	NARRATIVE INFORMATION		
	Nesting attempt failed (Yes/No), date/nesting period of failure:	•	
	Reason for failure:		
		0	
	Nest Abandoned (Yes/Ŋo)) date:		
	Reason for abandonment:		
	Disturbing Activities (record type, duration, and proximity to nest)_	Челон (ум. арадария). У	
	Habitat Alterations (record type, extent, and proximity to nest)		
			land.
	Ongoing Disturbances (record type, extent, and proximity to nest)	recreation a res	ort, osprey, lishalen sagle

APPENDIX B

2016 NEW NEST DOCUMENTATION

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

Species: Bald eagle	
Territory name (if known): Bull Run	
Territory/nest number (if known): 07I10401	
Reported by: David Armes	Date: 02/25/2016
Location: T <u>48 N R 1W</u>	Section <u>5</u> <u>14</u> <u>NW of</u> <u>14</u> <u>SE</u>
State: ID	County: Kootenai
Elevation: 2180 feet	Aspect: <u>North</u>
Lat/Lon: 47.531159, -116.485804	Hydrologic unit: Coeur d'Alene River
Nest stratum: Transmission pole	Nest_height (circle ft or m): Top of pole, ~80
Position on slope: Terrace at shoreline	Nest condition: good
Tree species: <u>NA</u> Tree height (circle	(to) m): <u>NA</u> DBH (circle(in or cm): <u>NA</u>
Land ownership: <u>Private</u>	
USGS Quad name: <u>Rose Lake</u>	
Directions to nest: Viewed from CDA River or travel s	outh across River to West Bull Run Road, Turn right and travel
to E. Brewer Rd. if needed. Located at the point, on t	op of the transmission pole.

Comments: <u>First observed in 2016 nesting season. 1.6 miles S of Rose Lake nest, 2.2 miles upstream of Killarney</u> nest. Nest material is planned for permitted removal in fall of 2016.



Locator Map



Photo 1. View southeast across Coeur d'Alene River.



Photo 2. View southeast on transmission pole.

Page<u>1 of 3</u>

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

Species: Bald eagle			
Territory name (if known): Four Mound			
Territory/nest number (if known): 06W10502	2		
Reported by: David Armes			Date: 05/19/2016
Location: T <u>27 N R</u> <u>41 E</u>	Section <u>17</u>	1⁄4 NW of	1⁄4 <u>NW</u>
State: WA	County:	Spokane	
Elevation: 1597 feet	Aspect: South		
Lat/Lon: 47.844578, -117.665043	Hydrologic unit: <u>Sp</u>	ookane River	
Nest stratum: <u>Tree</u>	Nest height (circle	eftør m): <u>100</u>	
Position on slope: Terrace above shore	Nest condition:	good	
Tree species: <u>Ponderosa pine</u> Tree hei	ight (circle ft or m): <u>125</u>	DBH (circle	(in or cm): <u>28</u>
Land ownership: Private			
USGS Quad name: Four Mound Prairie			
Directions to nest: From community of Nine			
Directions to nest: From community of Nine right on N South Bank Rd. Travel north abo Comments: Viewed from River. Located beh areas across the River along Long Lake Rd.	out 3 miles .Driveway address is nind residence. Could be observ	ved from of the two	
right on N South Bank Rd. Travel north abo Comments: <u>Viewed from River. Located beh</u>	out 3 miles .Driveway address is nind residence. Could be observ	ved from of the two	
right on N South Bank Rd. Travel north abo Comments: <u>Viewed from River. Located beh</u>	out 3 miles .Driveway address is nind residence. Could be observ	ved from of the two	
right on N South Bank Rd. Travel north abo Comments: <u>Viewed from River. Located beh</u>	out 3 miles .Driveway address is nind residence. Could be observ	ved from of the two	
right on N South Bank Rd. Travel north abo Comments: <u>Viewed from River. Located beh</u>	out 3 miles .Driveway address is nind residence. Could be observ	ved from of the two	
right on N South Bank Rd. Travel north abo Comments: <u>Viewed from River. Located beh</u>	out 3 miles .Driveway address is nind residence. Could be observ	ved from of the two	
right on N South Bank Rd. Travel north abo Comments: <u>Viewed from River. Located beh</u>	out 3 miles .Driveway address is nind residence. Could be observ	ved from of the two	
right on N South Bank Rd. Travel north abo Comments: <u>Viewed from River. Located beh</u>	out 3 miles .Driveway address is nind residence. Could be observ	ved from of the two	
right on N South Bank Rd. Travel north abo Comments: <u>Viewed from River. Located beh</u>	out 3 miles .Driveway address is nind residence. Could be observ	ved from of the two	
right on N South Bank Rd. Travel north abo Comments: <u>Viewed from River. Located beh</u>	out 3 miles .Driveway address is nind residence. Could be observ	ved from of the two	
right on N South Bank Rd. Travel north abo Comments: <u>Viewed from River. Located beh</u>	out 3 miles .Driveway address is nind residence. Could be observ	ved from of the two	
right on N South Bank Rd. Travel north abo Comments: <u>Viewed from River. Located beh</u>	out 3 miles .Driveway address is nind residence. Could be observ	ved from of the two	



Locator Map



Photo 1. View west from Spokane River, behind residence.



Photo 2. View northwest from Spokane River. Adult with 1 nestling.

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

Territory name (if known): <u>Northshore</u>			
Territory/nest number (if known): <u>06W10403</u>	3		
Reported by: David Armes			Date: 03/16/2016
Location: T <u>27 N R</u> <u>40 E</u>	Section 20	1/4 NW of	1⁄4 <u>SE</u>
State: WA	County: Stevens		
Elevation: 1540 feet	Aspect: East		
Lat/Lon: 47.822921, -117.786500	Hydrologic unit: <u>Spo</u>	kane River	
Nest stratum: <u>Tree</u>	Nest height (circle(tor m): <u>90</u>	
Position on slope: Terrace above shore	Nest condition: good	b	
Tree species: <u>Ponderosa pine</u> Tree heigh	nt (circle ft or m): <u>100</u>	DBH (circle(ir	n or cm): <u>16</u>
Land ownership: <u>Avista</u>			
USGS Quad name: Long Lake			
-			
-			
Comments: <u>First observed in 2016 nesting sea</u> and 2 miles west of Long Lake South 06W220			



Locator Map



Photo 1. View northwest from Spokane River.



Photo 2. View northwest from Spokane River.

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

Species: Bald eagle				
Territory name (if known):	Turner Bay			
Territory/nest number (if know	wn) <u>07106604</u>			
Reported by: David Armes				Date: <u>2/23/201</u>
Location: <u>T49N, R3W</u>		Section <u>19</u>	1⁄4 SW	of ¼ <u>SW</u>
State: ID		County: Kootenai		
Elevation: 2133 feet		Aspect: Northwest	t	
Lat/Lon: 47.572135°, -116.	.784696°	Hydrologic unit: <u>Sp</u>	ookane River/ Co	oeur D'Alene Lake
Nest stratum: Tree		Nest height (circle	(ft or m): <u>80 fee</u>	t
Position on slope: Shoreline		Nest condition:	good	
Tree species: Ponderosa pin	<u>e</u> Tree height (ci	rcle ft or m): <u>100</u>	DBH (circ	cle(in or cm): <u>20+</u>
Land ownership: Private				
USGS Quad name: Mica Ba	ау			
Directions to nest: <u>Travel so</u> west of the home located or Comments: <u>In split-top pine k</u>	n the point.			
west of the home located or	n the point.			
west of the home located or	n the point.			
west of the home located or	n the point.			
west of the home located or	n the point.			
	n the point.			
west of the home located or	n the point.			



Locator Map



Photo 1. View southeast from lake.



Photo 2. View east from Lake. Two adults.