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November 30, 2012

**VIA ELECTRONIC FILING**

Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission (FERC)  
888 First Street NE  
Washington, DC 20426

**Re: Youngs Creek Hydroelectric Project, FERC Project No. P-10359  
Resident Trout Monitoring Plan Annual Report 2012**

Dear Secretary Bose:

The Public Utility District No. 1 of Snohomish County (the "District") files its *Resident Trout Monitoring Plan Annual Report: 2012 Survey* per the approved Resident Trout Monitoring Plan for the Youngs Creek Hydroelectric Project (FERC No. P-10359, "Project"). The District provided a consultation copy of the draft report to the Washington Department of Fish and Wildlife and the U.S. Fish and Wildlife Service; neither agency had comments on the contents of the draft report nor requested a meeting to discuss the draft report.

If you have any questions about the enclosed report, please contact Keith Binkley at (425) 783-1769.

Sincerely,

A handwritten signature in black ink, appearing to read "Kim D. Moore", is written over a faint, circular, light-colored watermark or seal.

Kim D. Moore, P.E.  
Assistant General Manager of Generation, Water, and Corporate Services

Enclosed: Resident Trout Monitoring Plan Annual Report 2012

Cc (via email): Tim Romanski, U.S. Fish and Wildlife Service  
Brock Applegate, Washington Department of Fish and Wildlife  
Keith Binkley, District

# Youngs Creek Hydroelectric Project (FERC No. P-10359)

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## *Resident Trout Monitoring Plan Annual Report*

*2012 Survey*



Prepared by:



Everett, WA

October 2012

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## 1. OVERVIEW

The Public Utility District No. 1 of Snohomish County (District) has completed the first year of post-Project baseline resident trout monitoring for the Youngs Creek Hydroelectric Project (FERC No. P-10359) (Project)<sup>1</sup>. This brief report and attached appendices summarize the August 23, 2012 sampling effort and the associated statistical inference tests [Tests 1-5] outlined in the Resident Trout Monitoring Plan (Monitoring Plan) (Beak Consultants Inc. 1993)<sup>2</sup>. Habitat conditions during the survey are photo documented in Appendix A; a map of population monitoring site is included as Figure A-1. Despite a wet June, near record low flow conditions were observed during the summer / early fall 2012. As a result and in order to meet minimum flow requirements, the project did not operate between June 27 and October 15. These dry conditions resulted in complete dewatering of portions of the monitoring site during early fall and are photo documented in Appendix B. Documentation of consultation with the Washington Department of Fish and Wildlife and the U.S. Fish and Wildlife Service regarding this report is included in Appendix C.

As a summary, the Monitoring Plan is designed to:

- (1) Assess changes in resident trout population using annual counts of the number of fish in 10 pools as an ***Index*** of trout abundance
- (2) Ensure Project-related changes in streamflow do not prevent the trout population from rebounding following a decline
- (3) Use Least-Squared Regression ‘Trend Analysis’ to assess changes in trout abundance over time

Monitoring the trout population will assess change in the population index, regardless of the cause of the changes. The surveys will monitor two types of population changes:

- (1) Statistically significant trends (3 or more years of surveys)
- (2) Sudden catastrophic declines

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<sup>1</sup> Start of Project operation occurred on November 16, 2011.

<sup>2</sup> The Trout Monitoring Plan was approved by the FERC in its Order Approving Resident Trout Monitoring Plan issued June 8, 1995 [19950614-0065].



2. SURVEY RESULTS - 2012 DATA

Table 1: Youngs Creek Resident Trout Monitoring Data - 2012										
Date:	8/23/2012	Start Time:	10:20	Finish Time:	12:10					
Personnel:	KB / LL									
Weather:	Overcast	Air Temp.	63 F	Water Temp.	15.2 C	Discharge:	~3-4 cfs			
Number of rainbow trout observed by size class in mm										
Pool #	< 60 mm	61 - 90	91 - 120	121 - 150	151 - 180	181 - 210	211 - 240	> 240	TOTAL	Total > 60 mm
1	1	3							4	3
2	2	5	6	10					23	21
3		2	1		1				4	4
4	1	1			1				3	2
5	2	3		1					6	4
6	1	4		1	1				7	6
7	2	6		3	2	1			14	12
8	4	7		1	3				15	11
9	2	2	3	1	3	1			12	10
10	1	3	4	5	3	1	2		19	18
Totals	16	36	14	22	14	3	2		107	91
Pool #	Length (feet)	Width (feet)	Mean Depth	Max Depth	Control Dept	Photo #	Pool Area (m <sup>2</sup> )			(fish/m <sup>2</sup> )
1	22	20	0.9	1.7	0.7	1	41			0.073
2	42	22	1.6	3.4	0.8	2	86			0.245
3	30	15	1.0	1.8	0.8	3	42			0.096
4	28	15	1.7	2.7	0.8	4	39			0.051
5	15	15	1.6	2.3	0.8	5	21			0.191
6	27	20	1.3	2.6	0.4	6	50			0.120
7	55	21	2.4	3.3	0.4	7	107			0.112
8	67	18	2.0	4.1	0.5	8	112			0.098
9	28	13	2.3	3.4	0.5	9	34			0.296
10	85	20	2.0	3.3	0.6	10	158			0.114
										0.140
Physical habitat and flow conditions nearly identical to those observed during 2011 sampling session										

### 3. PROJECT MONITORING – FIRST YEAR OF OPERATION

A catastrophic decline during the first year of operation has been defined for the Youngs Creek Monitoring Plan as a 75 percent decline in the mean pre-project population index from all surveys [Test 1]. The pre-Project data ranged between 6 and 11 fish per pool and averaged 8.8 fish per pool. Thus, one would need to record a population index following the first year of operation of less than 2.2 fish per pool to be categorized as a catastrophic event. The trout abundance index during the first year of operation was 9.1 fish/pool; slightly higher than the pre-operational mean. The increase in fish abundance is not regarded as a catastrophic event under Test 1 of the Monitoring Plan.

Catastrophic declines of 75 percent or more in subsequent years of operation [Years 2-5] are compared to mean population data from the period of operation rather than the pre-Project baseline period [Test 2].

Since a catastrophic event did not occur in year 1, adjustments in the minimum in-stream flow regime, in accordance with the current MOA, will only be implemented if:

- (1) there are two successive catastrophic population declines during five post-operational years, or
- (2) the population index undergoes a steady, statistically significant decline over a period of five post-operational years.

Monitoring could end following three years of post-operational surveys if the minimum in-stream flow releases are considered adequate to protect the fishery resource by means of the following Test 3:

- (1) the trout population index does not exhibit a statistically significant decline in three years of Project operation.

Monitoring could continue past five years of post-operational surveys as a factor of either: (a) determining if a near-term catastrophic decline has an opportunity to rebound [Test 5]; or (b) a longer-term statistically significant decline occurs [Test 4], resulting in resetting the minimum in-stream flow regime.

The slope of the fish abundance data per individual pool (I) is variable (Table 3). Some pools show increasing trends while others show decreasing trends. During 2010 and 2011 of the baseline period and 2012, the streamflow in the lower alluvial portion of the monitoring reach, specifically pools 1 through 4, has gone subsurface for a two to four week period during late summer / early fall. Although lower in recent years, the trout abundance estimates during the baseline period do not show a statistically significant trend in the annual survey data from 1991 to 2011. This result implies the Youngs Creek trout population index has been relatively stable over the baseline period (Figure 1). The index has remained stable during the first year of operation.

Table 2. Snorkel data summary (1989-2012).

Youngs Creek Resident Trout Snorkel Surveys										Youngs Creek Resident Trout Snorkel Surveys													
Pre-Operational Data																							
Date	Flow (cfs)	Temp		Pools (#)	Fish > 60 mm (#/pool)	Pool Density (fish/m <sup>2</sup> )		Fish per pool Statistics					Fish Density (Fish per m <sup>2</sup> )					Fish Density (Fish per m <sup>2</sup> ) One Standard Deviation			Fish per pool Statistics One Standard Deviation		
		Start (°C)	End (°C)					Min.	Max.	Mean	S.D.	Var.	Min.	Max.	Mean	S.D.	Var.						
Aug-89	4.8	12.0		2	9.0	0.299																	
13-Aug-90	1.1	17.8		2	9.0	0.293	(1989 - 1990)	9.0	9.0	9.0	± 0.00	0.00	0.293	0.299	0.296	± 0.004	0.000	0.292	0.296	0.300	9.0	9.0	9.0
8-Aug-91	3.1	16.5		10	9.2	0.195																	
11-Aug-92	8.0	15.0	16.0	10	9.4	0.198																	
18-Aug-93	12.4	-		10	9.1	0.201	(1991 - 1994)	6.2	9.4	8.5	± 1.52	2.32	0.121	0.201	0.179	± 0.039	0.001	0.140	0.179	0.217	7.0	8.5	10.0
11-Aug-94	8.9	16.5		10	6.2	0.121																	
14-Aug-08	2.0	14.3	* 16.8	10	11.1	0.142																	
18-Aug-09	0.6 <sup>1/</sup>	14.4	# 17.5	10	8.1	0.071	(2008 - 2011)	6.8	11.1	9.1	± 2.02	4.08	0.071	0.153	0.112	± 0.041	0.003	0.071	0.112	0.153	7.1	9.1	11.1
14-Aug-10	2.4	14.0	^ 15.0	10	10.5	0.153																	
22-Aug-11	2.5	15.6	§ 15.6	10	6.8	0.083																	
Early and Late Combined Baseline Period:							(1991 - 2011)	6.2	11.1	8.8	± 1.69	2.86	0.071	0.201	0.146	± 0.051	0.003	0.094	0.146	0.197	7.1	8.8	10.5
1) Subsurface flow apparent																							
*) 2008 water temperature at 0930 hrs; temp rose to 16.8C by 1430 hrs.																							
#) 2009 water temperature at 0940 hrs; temp rose to 17.8C by 1430 hrs; Air temp 17.5C to 26.7C over the same time period																							
^) 2010 water temperature at 0945 hrs; temp rose to 15.0C by 1330 hrs; Air temp 18.3C to 21.1C over the same time period																							
§) 2011 water temperature at 1130 hrs; steady at 15.6C until 1340 hrs; Air Temp 21.1C.																							
§) 2011 water temperature at 1130 hrs; steady at 15.6C until 1340 hrs; Air Temp 21.1C.																							
Post-Operational Data																							
Date	Flow (cfs)	Temp		Pools (#)	Fish > 60 mm (#/pool)	Pool Density (fish/m <sup>2</sup> )		Fish per pool Statistics					Fish Density (Fish per m <sup>2</sup> )					Fish Density (Fish per m <sup>2</sup> ) One Standard Deviation			Fish per pool Statistics One Standard Deviation		
		Start (°C)	End (°C)					Min.	Max.	Mean	S.D.	Var.	Min.	Max.	Mean	S.D.	Var.						
23-Aug-12	3.5	15.2		10	9.1	0.140	(2012 - 2016)			9.1	±				0.140	±							



Table 3. Youngs Creek Resident Trout Monitoring Plan statistical trend analysis.

Pool #	Early 1990s Baseline				Late 2000s Baseline				Slope <sup>1)</sup>	Project Operations							
	1991	1992	1993	1994	2008	2009	2010	2011	(m)	2012	2013	2014	2015	2016	3-yr Slope <sup>1)</sup>	4-yr Slope <sup>1)</sup>	5-yr Slope <sup>1)</sup>
1	3	4	7	1	3	0	0	2	-0.1	3	2	6	7	3	1.5	1.6	0.5
2	14	7	7	5	5	0	0	4	-0.4	21	3	6	7	3	-7.5	-3.9	-3.2
3	11	10	7	6	9	0	25	0	0.0	4	4	6	7	3	1.0	1.1	0.1
4	2	2	4	5	2	1	4	2	0.0	2	6	6	7	3	2.0	1.6	0.4
5	2	4	2	1	5	5	2	2	0.1	4	6	6	7	3	1.0	0.9	-0.1
6	23	25	20	13	4	4	4	0	-1.0	6	7	6	7	3	0.0	0.2	-0.6
7	2	3	7	6	13	3	4	6	0.1	12	8	6	7	3	-3.0	-1.7	-1.9
8	31	26	24	16	27	14	9	13	-0.6	11	9	6	7	3	-2.5	-1.5	-1.8
9	4	12	10	8	7	4	13	9	0.0	10	10	6	7	3	-2.0	-1.3	-1.7
10	0	1	3	1	36	50	44	30	2.2	18	1	6	7	3	-6.0	-2.8	-2.4

1) = Slope (m) of the least squares regression line

(I) =	9.2	9.4	9.1	6.2	11.1	8.1	10.5	6.8	0.02	9.1	5.5	6.0	7.0	3.0			
B <sub>p</sub> =	9.2	9.3	9.2	8.5	9.0	8.9	9.1	8.8									
A <sub>p</sub> =										9.1	7.3	6.9	6.9	6.1			
Σm <sub>i</sub> =			-0.05	-0.93	0.14	0.05	0.07	0.02	0.02						-1.55	-0.58	-1.07
S <sub>m</sub> = Standard deviation of the pool regression slopes									0.85						3.26	1.93	1.29
√# of pools =	4.47214	5.47723	6.32456	7.07107	8.36660	8.94427											
S <sub>b</sub> = Standard deviation using individual pool counts								10.3									
S <sub>bp</sub> = Standard deviation using annual pool counts								1.7									

Test 1: First Year Catastrophic Decline using Pre-Project Data

Where: (I) = average number of fish/pool for current year.  
(B<sub>p</sub>) = average number of fish/pool observed pre-project conditions = 8.8 fish/pool

Catastrophe: (I<sub>2012</sub>/B<sub>p2011</sub>) < 0.25 = < 2.2 fish/pool

Test 2: Subsequent Year Project Operational Catastrophic Decline using Post-Project Data

Where: (I) = average number of fish/pool for any given year.  
(A<sub>p</sub>) = average number of fish/pool observed prior to the current survey.

Catastrophe: (I<sub>2013</sub>/A<sub>p2012</sub>) < 0.25; or for any combination of current year and prior post-project mean

Test 3: Positive Population Trends (Operational Years 3 and 4)

The test compares the average of the slopes of the regression line for each pool

Positive increase = regression slope greater than zero (P = 0.10).

Students' T-test is subsequently used to compare the slope averaged for 30 or 40 pools depending upon the year tested (Year 3 or 4).

For each pool use linear regression analysis (Y = mX + b)

Where: Y = number of fish  
X = Year  
m = slope coefficient for each pool.  
S<sub>m</sub> = Standard Deviation of the slopes

Use a single sample t-test for the mean slope versus a slope of zero.

$$t = \frac{(\Sigma m_i) / \# \text{ of pools} - 0}{S_m / \sqrt{\# \text{ of pools}}}$$

Determine critical t value using a table of t-distributions with DF = (# of pools)-1, and a 1-tailed P = 0.10.

If t-calculated is greater than t-critical, a significant difference exists and it can be concluded that a significant

Test 4: Negative Population Trends (Preceding 5 Years)

Test compares the the annual average of the regression slopes of number of fish per pool

Negative decrease = regression slope less than zero (P = 0.10)

Use Students' t-test; same as for Test 3, only looking for significant decreases.

Determine critical t value using a table of t-distributions with DF = (# of pools)-1, and a 1-tailed P = 0.10.

If the absolute value of negative t-calculated is greater than t-critical, a significant difference exists and it can be concluded that a significant negative population trend has developed.

Test 5: Comparison of 1-yr Catastrophe with Pre-Project Baseline Population

This test is used only after a 1st-Yr Catastrophic Decline defined in Test 1 has occurred.  
Compares post-Project population numbers with pre-Project baseline.

If post-Project is not significantly less than pre-Project mean of 8.8 fish/pool, the population is considered to have rebounded from the earlier catastrophic decline.

Where: (I) = average number of fish/pool for current year.  
(B<sub>p</sub>) = average number of fish/pool observed pre-project conditions = 8.8 fish/pool  
(S<sub>b</sub>) = standard deviation of pre-project population using individual pool counts = 10.3 fish/pool  
S<sub>b</sub> is the within pool mean-square error determined using a one-way ANOVA with DF = 60 [10 pools (7 years -1)].

Single-sample Students' T-test is subsequently used to compare the mean pre-project population (B<sub>p</sub>) of 8.8 fish/pool versus the average number of fish per pool for the current year (I).

Determine critical t value using a table of t-distributions with DF = (# of pools) \*(n-1), and a 1-tailed P = 0.10.

If t-calculated is greater than t-critical, a significant difference exists and it can be concluded that the population has not rebounded to pre-project levels.

Example Tests 1 & 2 using 1994/2009 data as potential declines

Test 1: 0.70 FALSE 0.92 FALSE 1.03

Test 2: 0.60 0.82 1.02 0.43

Exp. Test 3 using Baseline data

Test 3: Critical Value of the t-Distribution = 0.218 1.296

Test 4: Critical Value of the t-Distribution = -2.125 -1.341 1.311 1.304

Test 5: Example Test 5 using 2011 data

Test 5: Critical Value of the t-Distribution = 1.631 1.292 2.691 2.283 1.468 4.730 1.291 1.290 1.289 1.288

Result; t-calculated

Critical Value of the t-Distribution; t-critical

Result; t-calculated

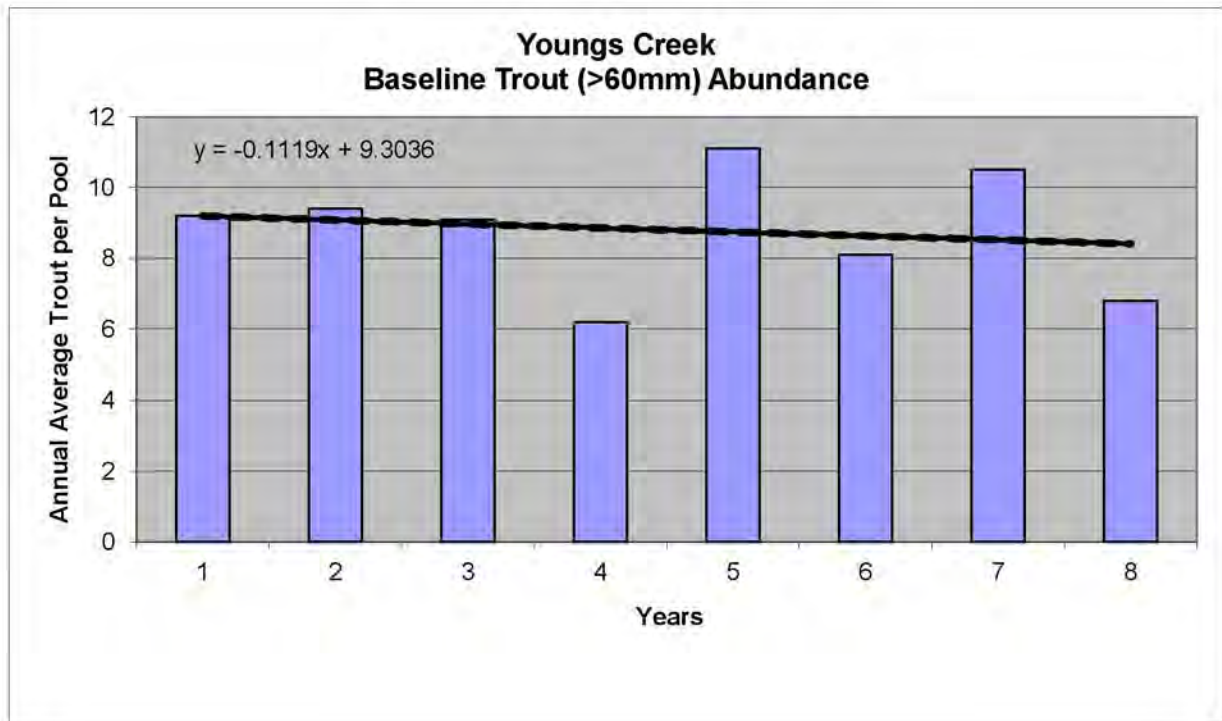
Critical Value of the t-Distribution; t-critical

Result; t-calculated

Critical Value of the t-Distribution; t-critical

2012 Resident Trout Monitoring Survey

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**Figure 1. Youngs Creek average annual abundance index and least square regression trend line (1991-2011).**

#### **4. FUTURE REPORTING**

This report represents the first year after the commencement of Project operation. A similar survey and subsequent annual report will be prepared for year 2 as indicated in the Monitoring Plan.

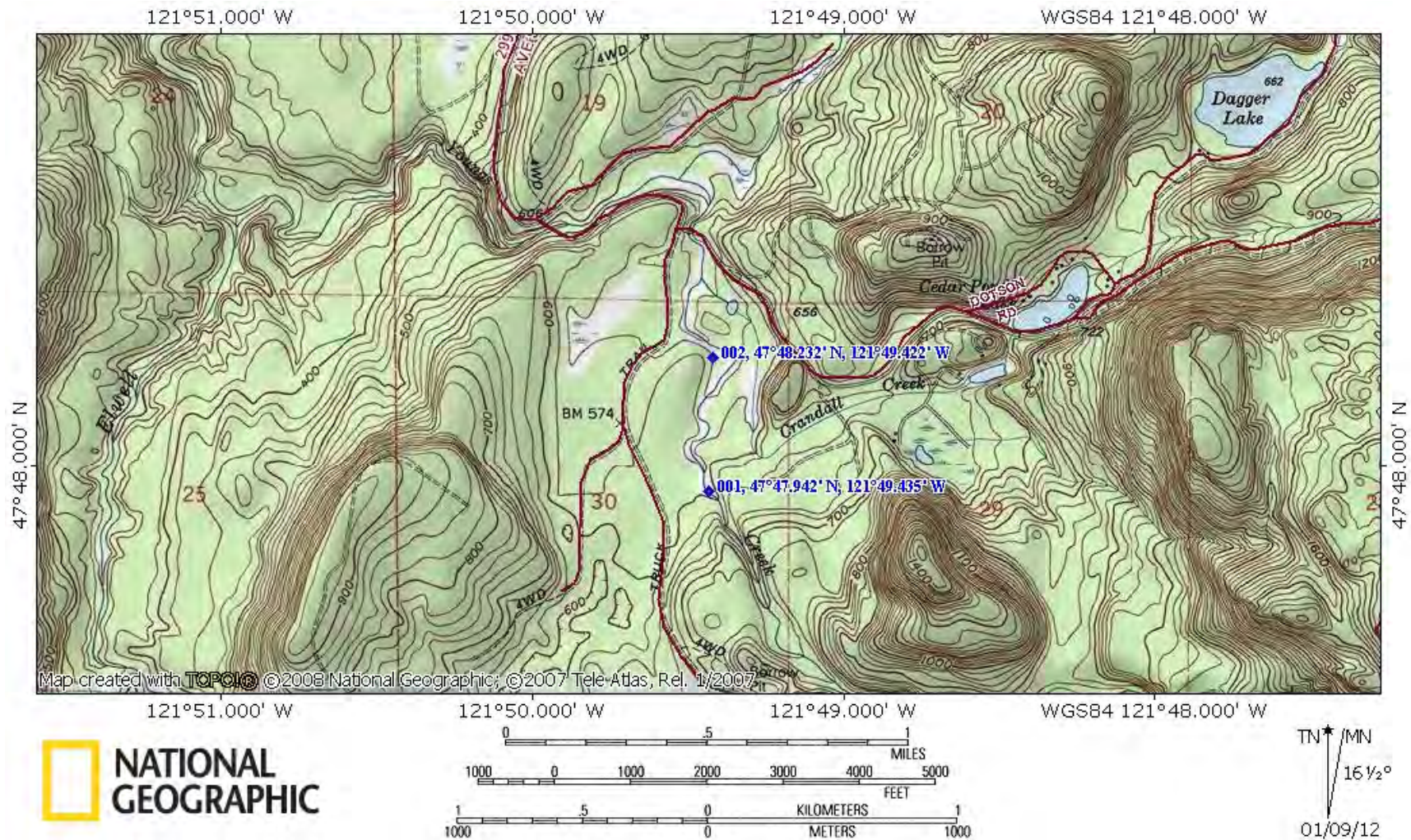
Please contact Keith Binkley (Generation - Natural Resources Manager, fish biologist) at [KMBinkley@snopud.com](mailto:KMBinkley@snopud.com) if you have any questions about the data collected to date and how they apply to the Resident Trout Monitoring Plan.

## **APPENDIX A**

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### *Photos of Habitat Conditions during August 2012 Survey*





**Figure A-1. Map of Monitoring Site Reach. Waypoint 001 indicates Powerhouse location at RM 2.4 and approximate downstream boundary of trout monitoring site.**





**Photo A-1. August 2012 Pool 1.**



**Photo A-2. August 2012 Pool 2.**





**Photo A-3. August 2012 Pool 3.**



**Photo A-4. August 2012 Pool 4.**





**Photo A-5. August 2012 Pool 5.**



**Photo A-6. August 2012 Pool 6.**





**Photo A-7. August 2012 Pool 7.**



**Photo A-8. August 2012 Pool 8.**





**Photo A-9. August 2012 Pool 9.**



**Photo A-10. August 2012 Pool 10.**





**Photo A-11. August 2012 Pool 10 (fish photo).**



**Photo A-12. August 2012 Pool 10 (fish photo).**



## **APPENDIX B**

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### *October 3, 2012 Survey Photos*



**Photo B-1. Youngs Creek, dry channel looking downstream to Powerhouse at RM 2.4.**



**Photo B-2. Youngs Creek, dry channel looking upstream from RM 2.5.**





**Photo B-3. Youngs Creek, dry channel looking upstream from RM 2.6.**



**Photo B-4. Youngs Creek, Monitoring Pool 1, dewatered.**





**Photo B-5. Youngs Creek, Monitoring Pool 2, dewatered.**



**Photo B-6. Youngs Creek, Monitoring Pool 3, dewatered.**





**Photo B-7. Youngs Creek, Monitoring Pool 4, dewatered.**



**Photo B-8. Youngs Creek, Monitoring Pool 5, dewatered.**





**Photo B-9. Youngs Creek, Monitoring Pool 6, near point where flow goes subsurface.**

## **APPENDIX C**

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### *Consultation Documentation*

## Presler, Dawn

---

**From:** Tim\_Romanski@fws.gov  
**Sent:** Monday, November 26, 2012 2:49 PM  
**To:** Presler, Dawn  
**Subject:** RE: Youngs Creek (P-10359) - 2012 Trout Monitoring Annual Report

I don't have any comments at this time. Thanks for following up on this.

Tim Romanski  
Fish and Wildlife Biologist  
U.S. Fish and Wildlife Service  
Washington Fish and Wildlife Office  
Division of Conservation and Hydropower Planning  
510 Desmond Drive SE, Lacey, WA 98503  
360.753.5823 (phone) 360.753.9518 (fax)

"Presler, Dawn" <[DJPresler@SNOPUD.com](mailto:DJPresler@SNOPUD.com)>

11/26/2012 02:34 PM

To "Applegate, Brock A (DFW)" <[Brock.Applegate@dfw.wa.gov](mailto:Brock.Applegate@dfw.wa.gov)>,  
"Tim\_Romanski@fws.gov" <[Tim\\_Romanski@fws.gov](mailto:Tim_Romanski@fws.gov)>  
cc "Binkley, Keith" <[KMBinkley@SNOPUD.com](mailto:KMBinkley@SNOPUD.com)>  
Subject RE: Youngs Creek (P-10359) - 2012 Trout Monitoring Annual Report

Hi,  
Hope you both had a great Thanksgiving. I didn't hear back from either of you about needing a meeting or comments on the draft report. I need to file with the FERC by this Friday, so if you have any comments please send them to me by tomorrow noon.

Dawn

**From:** Applegate, Brock A (DFW) [<mailto:Brock.Applegate@dfw.wa.gov>]  
**Sent:** Thursday, October 25, 2012 3:54 PM  
**To:** Presler, Dawn; 'Tim\_Romanski@fws.gov'  
**Cc:** Binkley, Keith  
**Subject:** RE: Youngs Creek (P-10359) - 2012 Trout Monitoring Annual Report

Hi Dawn, I will let you know about a meeting by November 2. If I/we decide to have one, I would like no sooner than the week of Nov 13.

Thanks for your consideration of our busy schedules.

Sincerely, Brock

Brock Applegate  
Major Projects Mitigation Biologist  
Washington Department of Fish and Wildlife  
16018 Mill Creek Boulevard  
Mill Creek, WA 98012-1541

(425) 775-1311 x310  
(360) 789-0578 (cell)  
(425) 338-1066 (fax)

**From:** Presler, Dawn [<mailto:DJPresler@SNOPUD.com>]  
**Sent:** Tuesday, October 23, 2012 2:23 PM  
**To:** Applegate, Brock A (DFW); 'Tim\_Romanski@fws.gov'  
**Cc:** Binkley, Keith  
**Subject:** Youngs Creek (P-10359) - 2012 Trout Monitoring Annual Report

Dear Brock and Tim:

Attached is the Resident Trout Monitoring Plan 2012 Annual Report for the Youngs Creek Hydro Project, for your 30-day review and comment. Please let me know by October 31, if you would like to have a meeting the week of November 5 to discuss the results of the annual report. Otherwise, your comments are due back to me by November 22. If you have no comments on the attached report, a quick email stating so would be greatly appreciated.

Thanks!

Sincerely,  
*Dawn Presler*  
Sr. Environmental Coordinator  
Generation Resources  
(425) 783-1709

\*\*\*\*\*

PUD No. 1 of Snohomish County  
PO Box 1107  
Everett, WA 98206-1107