

**Compliance Monitoring
Eastern Washington
2012
Field Forms**

Pre-survey checklist (For Office and Planning Use)

- Form 1 Post Survey Evaluation Form**
- Form 2 Roads**
- Form 3 Salvage**
- Form 4 S or F RMZ No Outer Zone harvest**
- Form 5 S or F RMZ No Inner Zone Harvest**
- Form 6 Type F or S, Inner Zone Harvest, All Habitat Types**
- Form 7 (No Eastern Washington Form 7)**
- Form 8 Np and Ns Streams**
- Form 9 Type A or B Wetland Management Zones and Forested Wetlands**

Supplemental Water Information Form

This page left intentionally blank

**Eastern Washington
Pre-Survey Checklist (Optional for Office and Planning Use)**

FPA #:	Date:	Ownership: SFLO / Industrial		
DNR Survey Lead:	DOE Survey Rep:	WDFW Survey Rep:	Tribal Representative:	Landowner representative:
Other Attendees: Representing:	Other Attendees: Representing:	Other Attendees: Representing:	Other Attendees: Representing:	Other Attendees: Representing:

Use separate forms if needed for multiple activities

Forms to Be Completed: (As reported on FPA)

Post survey evaluation Form – Form #1 (always needed)

Road Activities

- _____ Road Construction – Form #2
- _____ Road Abandonment – Form #2
- _____ Landings – Form #2
- _____ Crossings - Form #2
- _____ Fords on N Waters --Form #2

RMZ

- _____ Salvage Harvest Form – #3
- _____ No Outer Zone Harvest– Form #4
- _____ No Inner Zone Harvest- Form #5
- _____ S or F Inner Zone Harvest all Habitat types-Form #6
- _____ Np and Ns Streams – Form #8
- _____ Wetlands - Form #9
- _____ Supplemental Water Information Form

Pre-Survey Information: (As reported on FPA)

Are there any stream type modification forms for this application? _____

Type S or F RMZ—

Stream Segment Identifier or Location _____ Within BTO: YES____ NO____

Harvest in Inner Zone: Y / N Zone Requirements: _____ Inner Zone Width _____ Outer Zone Width_____

Site Class on FPA/N: I / II / III / IV / V Site Class on FPARS: I / II / III / IV / V

(Map for reference)

Stream Width on FPA: >15 ft / ≤15 ft _____ Stream Length: _____ ft

Core Zone Basal Area: _____ ft²/acre Dominant Species: _____

Option 1 Max dbh for thin: _____” dbh Outer Zone Basal Area Credit for: CMZ / LWD

(High Elevation Habitat type only)

Harvest planned < 75’ from BFW? No____ Yes ____ (Y= shade documentation required)

Eastern Washington Pre-Survey Checklist (Cont'd)

Outer Zone Placement Strategy: Dispersed / Clumped Sensitive Area / Clumped

Alternate Plan map included? _____ Alternate Plan ID Team Notes Included? _____

Type Np RMZ

Harvest strategy identified on FPA for Np RMZ: No harvest _____ Partial Cut _____ Clear Cut _____

Stream Segment Identifier or Location _____

Harvest within 50' of BFW: Yes / No Length of Np Water: _____ ft

Water Type Modification info on FPA: Y / N

Sensitive Features: 50' _____ Headwall Seep _____ Side-slope Seep _____ Alluvial Fan
 50' _____ 2 or more Np _____ PIP/UMPPF _____ Headwall Spring

Type Ns ELZ

Stream Segment Identifier or Location _____

Road Activities

(Maps from FPA should be brought on survey to guide analysis)

Total Length of New Road Construction on FPA: _____ ft

Water Crossings: Bridge / Culvert / Temp Bridge / Temp Culvert / Ford

Proximity of Road Work to Typed Water: In or Over / Potential to Deliver / No Potential to Deliver

Number of Landings: _____

Pre-Survey Comments or Communications:

**Compliance Monitoring Eastern Washington
Form #1
Post Survey Evaluation**

FPA #	Ownership: SFL / Industrial	Time Spent:	Terrain: 0% - 30 / 31% - 50%/ >51%	Vegetation: Open / Brushy/ Very Brushy/ blowdown
Date				
DNR Survey Lead:	DOE Survey Rep:	WDFW Survey Rep:	Other Attendees: Representing:	Other Attendees: Representing:
Other Attendees: Representing:				

Forms Completed: (As reported on FPA and required per the sampling allocation)

Post survey evaluation Form – Form #1 (always needed)

Road prescriptions

_____ Road Construction – Form #2

Riparian prescriptions

Salvage Harvest Form _____
 No Outer Zone Harvest Form #4 _____
 No Inner Zone Harvest- Form #5 _____
 DFC Option 1 – Form #6 _____
 DFC Option 2 – Form #7 _____
 Np/ RMZ Ns ELZ – Form #8 _____
 Wetlands - Form #9 _____
 Supplemental Water Information Form _____

THIS PAGE INTENTIONALLY LEFT BLANK

Eastern Washington Roads Form #2

FPA # _____ Date: _____

Y= Yes, N=No, NA = Not applicable, NC =No consensus (Defer to FPF),IND=Indeterminate

General Questions

1. Were roads out sloped, insloped, crowned, ditched or bermed to prevent sediment delivery? Y / N / NA / NC
2. Were erodible soils disturbed during construction stabilized to prevent the potential to deliver to typed waters? Y / N / NA / NC
3. Were drainage structures installed at locations of seeps and springs to route water under the road prism to the forest floor to maintain hydrologic connectivity? Y / N / NA / NC
4. Was all diverted water returned to the basin from which it came? Y / N / NA / NC
5. Were cross drains, sediment traps, ditchouts, water bars, or other Best Management Practices utilized to prevent sediment delivery? Y / N / NA / NC
6. Were all relief structures \geq 15 inches in diameter? Y / N / NA / NC
7. Do relief structures effectively capture and pass ditch-line flow? Y / N / NA / NC
8. Were diversion structures placed close enough to streams to divert most sediment to the forest floor? Y / N / NA / NC
9. When water was routed to erodible soils, were relief culverts appropriately armored and/or vegetated to minimize scour? Y / N / NA / NC
10. Where the potential for sediment delivery existed, was full bench construction utilized for roads built on slopes greater than 60%? Y / N / NA / NC
11. If road construction produced end haul materials, were they placed in stable areas to prohibit the entry of material into the 100-year flood plain? Y / N / NA / NC / IND
12. Were rock armor headwalls and rock armored ditchblocks installed for drainage structure culverts located on erodible soils where the road has a gradient greater than 6%? Y / N / NA / NC

Stream Crossings

13. Does new road construction minimize stream crossings? Y / N / NA / NC
14. Were alterations to the stream bed, bank and bank vegetation limited to that necessary for construction of the project? Y / N / NA / NC

Form #2 P 1/5

Eastern Washington Roads Form #2(Cont'd)

15. Do roads run across typed water at a right angle? Y / N / NA / NC
16. Were culverts located and designed to minimize sediment delivery at stream crossings? Y / N / NA / NC
17. Are the locations and types of all stream crossings shown on the FPA? Y / N / NA / NC
18. Was water typed correctly on all waters using either physical criteria or a water type change? *(If no complete SWIF)* Y / N / NA / NC

Type N and wetland Crossings:

19. Are the alignment and slope of all culverts on grade with the natural streambed? Y / N / NA / NC
20. Are all culverts at least 24 inch dia. for Type Np waters and 15 inch dia. for Ns waters? Y / N / NA / NC
21. Do the entrances to all culverts have adequate catch basins and headwalls to minimize the possibility of erosion or fill failure? Y / N / NA / NC
22. Was slash or debris that reasonably may be expected to plug the culvert cleared for a distance of 50 feet above the culvert? Y / N / NA / NC
23. Did the culvert installation prevent scouring of the stream bed and erosion of the banks in the vicinity of the project? Y / N / NA / NC
24. Is there a written plan for the abandonment and restoration of wetland crossings? Y / N / NA / NC / IND
-

Type N Fords

25. Does the ford, its embankments and fills have erosion protection to withstand a 100-year flood? Y / N / NA / NC / IND
26. Is the alignment and slope of the ford on grade with the natural flow of the streambed? Y / N / NA / NC
27. Are entry and exit points for each ford located as close to perpendicular to the stream as possible? *(Not running adjacent or parallel)* Y / N / NA / NC
28. Are entry and exit points for each ford within 100 feet upstream or downstream of each other? Y / N / NA / NC

Form #2 P 2/5

Eastern Washington Roads Form #2 (Cont'd)

Bogs and Wetlands

29. Were all bogs or low nutrient fens completely avoided? Y / N / NA / NC
30. Was there any road construction in a wetland? Y / N / NA / NC
31. If #30 is yes, was the road prism and road length minimized in the wetland? Y / N / NA / NC
32. If #30 is yes, and if > .5 acre of a wetland were filled or drained due to activities, was the required replacement by substitution or enhancement completed? Y / N / NA / NC / IND

Temporary Roads

33. Was the road designed and permitted to be temporary? Y / N / NA / NC
34. Was the road constructed in a manner to facilitate closure and abandonment when the intended use is completed? Y / N / NA / NC / IND
35. Did the road design and culverts provide the same level of protection for public resources as required by the rules during the length of its use? Y / N / NA / NC / IND

Road Abandonment

36. Was the road blocked so that four-wheel highway vehicles cannot pass the point of closure at the time of abandonment? Y / N / NA / NC / IND
37. Were roads out-sloped, water barred, or otherwise left in a condition suitable to control erosion and maintain water movement within wetlands and natural drainages? Y / N / NA / NC
38. Were ditches left in a suitable condition to reduce erosion? Y / N / NA / NC
39. Were water crossing structures and fills on all typed waters removed except where the department has determined other measures would provide adequate protection to public resources? Y / N / NA / NC / IND
40. Was the road abandonment date identified on the FPA? Y / N / NA
41. Was the road abandonment completed by the date indicated? Y / N / NA / NC / IND
42. Was the road abandonment completed by the date of this field review? Y / N / NA / NC

Eastern Washington Roads Form#2(Cont'd)

Landings

43. Were truck roads, skid trails, and fire trails out sloped or cross drained uphill from landings and the water diverted to the forest floor away from the toe of the landing? Y / N / NA / NC
44. Are there any spoils located within the boundaries of Type A or B Wetlands or within there WMZ's, or within the boundaries of a forested wetland without written approval from the department? Y / N / NA / NC
45. Was the landing sloped to keep water from collecting on the operational surface? Y / N / NA / NC
46. Where there was a high potential for excavated materials to enter a WMZ, the bankfull width of any stream, or the 100-year floodplain, did the landowner endhaul the materials? Y / N / NA / NC / IND
47. Was the location of the landing outside of natural drainage channels, CMZs, RMZs, Type A or B wetlands, WMZs and forested wetlands? Y / N / NA / NC
48. Are there any piles of debris that are perched and pose a risk of delivering to typed waters? Y / N / NA / NC

Compliance with the FPA and the Rules

49. Was the road activity in compliance with the approved application? Y / N / NA / NC / IND
50. If non-compliant with the application what is the severity rating Low / Moderate / High / NC / IND
51. Was the road activity in compliance with the rules? Y / N / NA / NC / IND
52. If non-compliant with the rule what is the severity rating Low / Moderate / High / NC / IND

If non-compliant, describe the contributing factors in the appropriate category in the table below?

Administrative	
Layout	
Operational	

Comments and field observations (reasons for any out of compliance calls)

Signatures

DNR lead _____ **Date** _____

DFW _____ **Date** _____

ECY _____ **Date** _____

Tribe _____ **Date** _____

_____ **Date** _____

_____ **Date** _____

THIS PAGE INTENTIONALLY LEFT BLANK

Eastern Washington Salvage Harvest Form #3

FPA # _____ Date: _____

FPA includes: Cedar Salvage _____ Fire Salvage _____ Windthrow _____ Biomass _____

Y= Yes, N=No, NA = Not applicable, NC =No consensus (Defer to FPF)

FOREST HABITAT TYPE: PP___ MC___ HE___

1. Is there any salvage within the BFW, Core Zone, or CMZ of typed water, including any portion of those trees that may have fallen outside of these zones? Y / N / NA / NC / IND

Salvage in the Outer Zone:

2. Did the landowner receive Outer Zone leave credits for a LWD placement strategy? Y / N / NA / NC
3. Did the landowner leave the correct # of dominant and co-dominant TPA for the applicable forest habitat type in the outer zone? Y / N / NA / NC
4. Does the residual stand meet the leave tree requirements including down trees that originated from the Outer Zone? Y / N / NA / NC

Salvage in the Inner Zone:

5. Was the salvage operation conducted to protect residual undamaged trees within the Inner Zone? Y / N / NA / NC
6. If no Inner Zone salvage was proposed, is there any salvage within the Inner Zone, including any portion of those trees that my have fallen outside of it? Y / N / NA / NC
7. Did the landowner leave the correct # of dominant and co-dominant trees per acre for the applicable forest habitat type in the inner zone? Y / N / NA / NC
8. Does the residual stand meet stand requirements including down trees that originated from the Inner Zone? Y / N / NA / NC
9. If the proposed salvage involves down wood, was the correct amount for the applicable forest habitat type left in the Inner Zone after salvage? Y / N / NA / NC

For Ponderosa Pine, at least 12 tons per acre as follow:

- 6 pieces greater than 16 inches diameter and 20 feet in length
- 4 pieces greater than 6 inches in diameter and 20 feet in length

For Mixed Conifer;

At least 20 tons per acre as follow:

- 8 pieces greater than 16 inches diameter and 20 feet in length
- 8 pieces greater than 6 inches in diameter and 20 feet in length

For high Elevation;

At least 30 tons per acre as follow:

- 8 pieces greater than 16 inches diameter and 20 feet in length
- 8 pieces greater than 6 inches in diameter and 20 feet in length

Eastern Washington Form #3 (Cont'd)

Compliance with FPA and with the Rules

10. Was the harvest in compliance with the approved application? Y / N / NA / NC / IND
11. If non-compliant with the application what is the severity rating? Low / Moderate / High / NC / IND
12. Was the harvest in compliance with the rules? Y / N / NA / NC / IND
13. If non-compliant with the rules what is the severity rating? Low / Moderate / High / NC / IND

Attach any photo documentation to this form or send labeled photos with date, FPA #, and description to DNR compliance monitoring program manager.(jpgs are okay as long as descriptions are attached.)

Comments and field observations (reasons for any out of compliance calls, tree counts, etc)

Signature_____

Date_____

Eastern Washington Form #4

S or F RMZ No Outer Zone Harvest (RMZ Outer Zone Required)

FPA # _____ **Date:** _____ **Segment ID** _____ **WRIA** _____ **Site Class** _____

Y= Yes, N=No, NA = Not applicable, NC =No consensus (Defer to FPF)

FOREST HABITAT TYPE: PP___ MC___ HE___

- | | |
|--|-----------------------|
| 1. Was there any harvest in the Core Zone? | Y / N / NC |
| 2. Was there any harvest in the Inner Zone? | Y / N / NC |
| 3. Was there any harvest in the Outer Zone? | Y / N / NC |
| 4. Is the site class on FPA consistent with DNR site class maps? | Y / N / NC / IND |
| 5. Was the stream size reported on FPA consistent with the field observation?
<i>(If no, complete SWIF)</i> | Y / N / NA / NC |
| 6. If no did the difference affect the buffer width? | Y / N / NA / NC |
| 7. Were unstable slopes with the potential to deliver bounded out of the unit? | Y / N / NA / NC / IND |
| 8. Was there a regulatory CMZ that was not reported on the FPA? | Y / N / NA / NC / IND |

Compliance with FPA and with the Rules

- | | |
|--|----------------------------------|
| 9. Was the harvest in compliance with the approved application? | Y / N / NA / NC / IND |
| 10. If non-compliant with the application what is the severity rating? | Low / Moderate / High / NC / IND |
| 11. Was the harvest in compliance with the rules? | Y / N / NA / NC / IND |
| 12. If non-compliant with the application what is the severity rating? | Low / Moderate / High / NC / IND |

Administrative	
Layout	
Operational	

Attach any photo documentation to this form or send labeled photos with date, FPA #, and description to DNR compliance monitoring program manager.(jpgs are okay as long as descriptions are attached.)

Eastern Washington Form #5
S or F RMZ No Inner Zone Harvest

FPA # _____ **Date:** _____ **Segment ID** _____ **WRIA** _____

FPA Stream Size ≤ 15' > 15' **C/M Stream Size ≤15' > 15'** **Site Class** _____

FOREST HABITAT TYPE: **PP**___ **MC**___ **HE**___

1. Was there any harvest in the Core Zone? Y / N / NC
2. Was there any harvest in the Inner Zone? Y / N / NC
3. Is the site class on FPA consistent with DNR site class maps? Y / N / NC / IND
4. Was the stream size reported on FPA consistent with the field observation?
(If no, complete SWIF) Y / N / NA / NC
5. If no did the difference affect the buffer width? Y / N / NA / NC
6. Was there a regulatory CMZ that was not reported on the FPA?
(If yes, complete SWIF) Y / N / NA / NC / IND

OUTER ZONE LEAVE TREES

7. Did the landowner leave the correct # of dominant and co-dominant TPA
in the outer zone for the applicable forest habitat type and chosen outer zone strategy? Y / N / NA / NC
8. Was the harvest in compliance with the rules? Y / N / NA / NC / IND
9. If non-compliant with the application what is the severity rating? Low / Moderate / High / NC / IND
10. Was the harvest in compliance with the approved application? Y / N / NA / NC / IND
11. If non-compliant with the rule what is the severity rating? Low / Moderate / High / NC / IND

If non-compliant, describe the contributing factors in the appropriate category in the table below?

Administrative	
Layout	
Operational	

Attach any photo documentation to this form or send labeled photos with date, FPA #, and description to DNR compliance monitoring program manager.(jgs are okay as long as descriptions are attached.)

Comments and field observations (reasons for any out of compliance calls, tree counts, etc)

Signatures

DNR lead _____ **Date** _____

DFW _____ **Date** _____

ECY _____ **Date** _____

Tribe _____ **Date** _____

_____ **Date** _____

_____ **Date** _____

Eastern Washington Form #6 S or F RMZ Inner Zone Harvest (All Habitat types)

FPA # _____ **Date:** _____ **Segment ID** _____ **WRIA** _____

FPA Stream Size: ≤ 15' > 15' **C/M Stream Size:** ≤15' > 15' **Site Class:** _____

Y= Yes, N=No, NA = Not applicable, NC =No consensus (Defer to FPF)

FOREST HABITAT TYPE: PP___ MC___ HE_____

- | | |
|--|------------------|
| 1. Was there any harvest within the 30-foot Core Zone? | Y / N / NA / NC |
| 2. Was the stream size reported on FPA consistent with the field observation?
(If no; complete SWIF) | Y / N / NA / NC |
| 3. If no, did the discrepancy influence the Inner Zone width?
(Should the stream be >15 ft bfw or ≤15 ft bfw) | Y / N / NA / NC |
| 4. Is the site class on FPA consistent with DNR site class maps? | Y / N / NC / IND |
| 5. Was any harvest planned within 75' of BFW? | Y / N |
| 6. If yes to #5, was the required shade documentation included with the FPA? | Y / N / NA / NC |
-
- | | |
|---|------------|
| 7. Was there a regulatory CMZ that was not reported on the FPA?
(If yes, complete form SWIF) | Y / N / NC |
|---|------------|

Inner Zone harvest: Stands with high basal area (answer questions 14–17):

- | | |
|--|-----------------|
| 8. Did the harvest leave at least 50 TPA and a minimum leave tree
BAPA appropriate for the Forest Habitat Type and site index?
Ponderosa Pine 60 sq ft
Mixed Conifer low site index 70 sq ft
Mixed Conifer medium site index 90 sq ft
Mixed Conifer high site 110 sq ft
High Elevation see board manual Section 7 Appendix D, or DFC printout. | Y / N / NA / NC |
| 9. Were the 21 largest TPA left? | Y / N / NA / NC |
| 10. Were there an additional 29 TPA that are 10 inch dbh or greater? | Y / N / NA / NC |
| 11. If there were more than 29 10-inch dbh or greater TPA, were they
left in the following priority order? <ul style="list-style-type: none">• Trees that provide shade to water;• Trees that lean towards the water;• Trees of preferred species (see WAC 222-16-010);• Trees that are evenly distributed across the Inner Zone | Y / N / NA / NC |

Eastern Washington Form #6 (Cont'd)

12. Were additional trees of at least 6 inches dbh left if more than 50 TPA were needed to reach the appropriate BAPA? Y / N / NA / NC
13. If the minimum BAPA couldn't be met with less than 100 TPA of at least 6 inches dbh, were the largest trees left up to 100 TPA? Y / N / NA / NC
-

Stands with low basal area and high density (answer questions 14-17):

14. Did harvest leave the minimum TPA for the forest Habitat Type? (100 for PP, 120 for MC) Y / N / NA / NC
15. Did the trees that were left include the 50 largest TPA? Y / N / NA / NC
16. If yes to #16, were additional trees greater than 6" dbh left to reach the minimum? Y / N / NA / NC
17. If there were not enough trees 6 inch dbh or greater per acre, were all trees >6 inch dbh left plus the largest remaining trees to reach the minimum TPA? Y / N / NA / NC
-

Outer Zone harvest:

18. Did the landowner leave the correct # of dominant and co-dominant TPA in the outer zone for the applicable Forest Habitat Type and chosen outer zone strategy? Y / N / NA / NC
-

Stream adjacent parallel road in the Inner Zone: If no stream adjacent parallel road skip to 30 & 31.

19. Can the minimum required basal area for the habitat type be met with the presence of the road? If yes, skip to questions 30-31. If no, continue to question 20. Y / N
20. Was there harvest in the Inner Zone, including trees on the uphill side of the road? Y / N / NA / NC
21. Is the stream greater than 15 feet BFW? If yes, continue to question 22. If no, go to question 26. Y / N / NA / NC
-

Streams greater than 15 feet BFW:

22. Is the road edge that is closest to the stream 75 feet or more from the outer edge of BFW or CMZ? If yes, skip to questions 30 & 31. If no (therefore, the road edge is less than 75 from BFW/CMZ), answer questions 23-25. Y / N
23. Were additional leave trees, equal in total basal area to the trees lacking due to the road, left near the streams in or adjacent to the harvested unit? Y / N / NA / NC
24. If no or not applicable to the above question, did the DNR determine that additional leave trees were not available or practical to be left? Documentation from the DNR should be in the FPA. Y / N / NA / NC

Eastern Washington Form #6 (Cont'd)

25. If yes to the above question, did the landowner(s) or operator(s) employ site specific management activities to replace lost riparian functions (i.e. LWD placement in streams)? This strategy should be documented in the FPA. Y / N / NA / NC

Streams =< 15 feet BFW:

26. Is the road edge that is closest to the stream 50 feet or more from the outer edge of BFW or CMZ? Y / N
 If yes, skip to questions 30 & 31.
 If no (therefore, the road edge is less than 50 from BFW/CMZ), answer questions 27-29).

27. Were additional leave trees, equal in total basal area to the trees lacking due to the Road, left near the streams in or adjacent to the harvested unit? Y / N / NA / NC

28. If no or not applicable to the above question, did the DNR determine that additional leave trees were not available or practical to be left? Documentation from the DNR should be in the FPA. Y / N / NA / NC

29. If yes to the above question, did the landowner(s) or operator(s) employ site specific management activities to replace lost riparian functions (i.e. LWD placement in streams)? This strategy should be documented in the FPA. Y / N / NA / NC

Compliance with FPA and with the Rules:

30. Was the harvest in compliance with the approved application? Y / N / NA / NC / IND

31. If non-compliant with the application what is the severity rating? Low / Moderate / High / NC / IND

32. Was the harvest in compliance with the rules? Y / N / NA / NC / IND

33. If non-compliant with the rule what is the severity rating? Low / Moderate / High / NC / IND

If non-compliant, describe the contributing factors in the appropriate category in the table below?

Administrative	
Layout	
Operational	

Attach any photo documentation to this form or send labeled photos with date, FPA #, and description to DNR compliance monitoring program manager.(jpgs are okay as long as descriptions are attached.)

Comments and field observations (reasons for any out of compliance calls, tree counts, etc)

Signatures

DNR lead _____ **Date** _____

DFW _____ **Date** _____

ECY _____ **Date** _____

Tribe _____ **Date** _____

_____ **Date** _____

_____ **Date** _____

Eastern Washington Form #8

Np & Ns Streams

FPA # _____ **Date:** _____ **Segment ID:** _____ **WRIA:** _____

Y= Yes, N=No, NA = Not applicable, NC =No consensus (Defer to FPF)

Is this an Ns or Np stream? Ns _____, Np _____ or both _____ ?

This FPA included: Ns _____; Np _____; N (undesignated) _____; U _____; X'ed out _____

If any undesignated N, U, or X'ed out streams on FPA fill out SWIF comment section.

Water type: Use note templates and measurement protocols to gather information on BFW and gradient over a segment of at least 500 feet as per WAC 222-16-031(6) (f). Provide any information regarding typing information provided by LO, uncertainties, or possible questions on stream typing. Fill out SWIF for any segments in this section if needed.

1. Is the Ns stream consistent with the type reported on the FPA? Y / N / IND / NC / NA
(If no complete SWIF)
2. Is the Np stream consistent with the type reported on the FPA? Y / N / IND / NC / NA
(If no complete SWIF)

30-foot Equipment Limitation Zone (Ns and harvested portions of Np):

3. Is there evidence of equipment entry into the 30 ft ELZ? Y / N / NC
(A Yes answer does not necessarily indicate non-compliance)
4. Was less than 10% of the soil within the ELZ exposed due to activities? Y / N / NA / NC
5. If >10% of soil was exposed, were mitigation measures completed? Y / N / NA / NC / IND

Np Water RMZ: Was Np RMZ harvest, P/C _____ C/C _____ No Cut _____

6. Was all harvest at least 50 feet away from alluvial fans? Y / N / NA / NC
7. Was all harvest greater than 50 feet from headwall seeps and springs? Y / N / NA / NC
8. Was all harvest greater than 50 feet from all PIP/UMPPF, and the confluence of two or more Type Np streams? Y / N / NA / NC
What is the acreage of the RMZ? (RMZ length X 50/43560) _____ acres.
9. Were the largest 10 TPA retained? Y / N / NA / NC
(inclusive of those that contributed to BA)
10. Were up to 40 additional TPA $\geq 10''$ dbh retained as needed to reach required BAPA? Y / N / NA / NC
11. If needed were up to 50 additional TPA $> 6''$ dbh left? Y / N / NA / NC

Eastern Washington Form #8 (Cont'd)

12. Was an equal distance no-cut buffer designated and retained by the landowner? Y / N / NA /NC
13. Was the clear-cut RMZ less than 300 ft in length? Y / N / NA /NC
14. Was $\geq 70\%$ of this reach in the unit retained as a no-cut or partial cut RMZ? Y / N / NA /NC
15. Was the clear-cut RMZ greater than 500 ft from all Type F or S water? Y / N / NA /NC
16. Was the clear-cut RMZ greater than 50 ft from all headwall seeps, side slope seeps, headwater springs, alluvial fans and/or intersections of two or more Np waters? Y / N / NA /NC

Stream adjacent parallel roads Np streams.

17. For roads within 30 to 49 feet of the stream, was there a 100 foot RMZ if harvesting both sides of the stream or 50-foot RMZ if harvesting on only one side of the stream? Y / N / NA /NC
18. For the requirement in #17, was the RMZ based on the following priority order? Y / N / NA /NC
- Preferred: The area between the stream and the stream side edge of the road.
 - The area that provides the most shade to the channel.
 - The area that is most likely to deliver large woody debris to the channel.
19. For roads within 30 feet of BFW of the stream, in addition to #15 and #16, were all trees left between the stream and the streamside edge of the road? Y / N / NA /NC

For no harvest within the RMZ, answer the following question:

20. Were any trees cut inside the no cut RMZ? Y / N / NA /NC

Salvage

21. Is there salvage of the RMZ of any Type Np stream, or sensitive site? Y / N / NA / NC
22. Is there any salvage within the BFW of any Type N water? Y / N / NA / NC

Np Compliance with FPA and with the Rules:

23. Is the harvest in compliance with the approved application? Y / N / NA / NC / IND
24. If non-compliant with the application what is the severity rating? Low / Moderate / High / NC / IND
25. Is the harvest in compliance with the rules? Y / N / NA / NC / IND
26. If non-compliant with the rule what is the severity rating? Low / Moderate / High / NC / IND

If non-compliant, describe the contributing factors in the appropriate category in the table below?

Administrative	
Layout	
Operational	

Eastern Washington Form #8 (Cont'd)

Non Compliance with FPA with the Rules:

27. Is the harvest in compliance with the approved application? Y / N / NA / NC / IND
28. If non-compliant with the application what is the severity rating? Low / Moderate / High / NC / IND
29. Is the harvest in compliance with the rules? Y / N / NA / NC / IND
30. If non-compliant with the rule what is the severity rating? Low / Moderate / High / NC / IND

If non-compliant, describe the contributing factors in the appropriate category in the table below?

Administrative	
Layout	
Operational	

Attach any photo documentation to this form or send labeled photos with date, FPA #, and description to DNR compliance monitoring program manager. (jpgs are okay as long as descriptions are attached.)

**Eastern Washington Form #9
Type A or B WMZ and Forested Wetlands**

FPA # _____ Date: _____ Segment ID _____ WRIA _____

Y= Yes, N=No, NA = Not applicable, NC =No consensus (Defer to FPF)

1. Were the wetlands typed and sized appropriately on the ground, and consistent with the FPA? (If no, explain in comment section of this form.) Y / N / NA / NC
2. Is the variable buffer width appropriate relative to the WMZ table in WAC 222-30-020 (7) (a)? Y / N / NA / NC
3. Where operations were conducted within the WMZ, were the resulting openings less than 100 feet wide? (*as measured parallel to wetland edge*) (If no, explain in comment section.) Y / N / NA / NC
4. Where operations were conducted within the WMZ, were the resulting openings no closer than 200 feet from each other? (*as measured parallel to wetland edge*) (If no, explain in comment section.) Y / N / NA / NC

Type A Wetlands:

5. Are the leave trees in the WMZ representative of species found in the pre-harvest condition of the WMZ? (*evaluate stumps*) Y / N / NA / NC
6. Were any ground based harvesting systems used within the minimum WMZ without written approval by the Department? Y / N / NA / NC
7. When WMZs overlap an RMZ, was the requirement which best protects the public resource applied? Y / N / NA / NC / IND
8. If any timber was felled into or cable yarded across Type A or B Wetlands, was there written approval by the Department? Y / N / NA / NC

Answer questions 9-11 if <10% of the harvest is within the WMZ or question #12 criteria are not met.

9. Within the WMZ, are there at least 75 TPA greater than 4 inches dbh left? Y / N / NA / NC
10. Of the 75 TPA in the WMZ, are at least 25 of these greater than 12 inches dbh, where they exist? Y / N / NA / NC
11. Of the 25 TPA in the WMZ that are greater than 12 inches dbh, are there at least 5 of these greater than 20 inches dbh where they exist? Y / N / NA / NC

Eastern Washington Form #9 (Cont'd)

Answer 12 if $\geq 10\%$ of the unit is within a WMZ.

12. Answer the following:

- a. Is the harvest unit a clear-cut less than 30 acres?
If yes, go to d
If no, go to c
 - b. Is the harvest unit is a partial cut less than 80 acres?
If yes, go to d
If no, answer questions 9-11
 - c. Did the Landowner leave 38 TPA in the WMZ greater than 4 inches dbh, 13 of which are greater than 12 inches dbh, including 3 trees 20 inches dbh where they exist.
-

Type B Wetlands:

- | | |
|---|-----------------|
| 13. Are the leave trees in the WMZ representative of species found in the pre-harvest condition of the WMZ area (<i>evaluate stumps</i>)? | Y / N / NA / NC |
| 14. Were any ground based harvesting systems used within the minimum WMZ without written approval by the Department? | Y / N / NA / NC |
| 15. When WMZs overlap an RMZ, was the requirement which best protects the public resource applied? | Y / N / NA / NC |
| 16. If any timber was felled into or cable yarded across Type A or B Wetlands, was there written approval by the Department? | Y / N / NA / NC |

Answer questions 17-19 if less than 10% of the harvest is within the WMZ or question #12 criteria are not met.

- | | |
|--|-----------------|
| 17. Within the WMZ, are there at least 75 TPA greater than 4 inches dbh? | Y / N / NA / NC |
| 18. Of the 75 TPA in the WMZ, are at least 25 of these greater than 12 inches dbh, where they exist? | Y / N / NA / NC |
| 19. Of the 25 TPA in the WMZ that are greater than 12 inches dbh, are there at least 5 of these greater than 20 inches dbh where they exist? | Y / N / NA / NC |

Eastern Washington Form #9 (Cont'd)

Answer 20 if more than 10% of the unit is within a WMZ.

20. Answer the following:

- a. Is the harvest unit a clear-cut less than 30 acres?
If yes, go to d
If no, go to c
- b. Is the harvest unit is a partial cut less than 80 acres?
If yes, go to d
If no, answer questions 9-11
- c. Did the Landowner leave 38 trees per acre in the WMZ greater than 6 inches dbh, 13 of which are greater than 12 inches dbh, including 3 trees 20 inches dbh where they exist?

Forested Wetland:

- 21. If harvest occurred within forested wetlands, then was the harvest method limited to low impact harvest or cable systems? Y / N / NA / NC / IND
- 22. If a forested wetland exists within the boundaries of a harvest unit and the area of the wetland is greater than 3 acres, were the approximate boundaries delineated and mapped by the applicant? Y / N / NA / NC / IND

Type A Wetland Compliance with FPA and with the Rules:

- 23. Was the harvest in compliance with the approved application? Y / N / NA / NC / IND
- 24. If non-compliant with the application what is the severity rating? Low / Moderate / High / NC / IND
- 25. Was the harvest in compliance with the rules? Y / N / NA / NC / IND
- 26. If non-compliant with the rule what is the severity rating? Low / Moderate / High / NC / IND

If non-compliant, describe the contributing factors in the appropriate category in the table below?

Administrative	
Layout	
Operational	

Type B Wetland Compliance with FPA and with the Rules:

27. Is the harvest in compliance with the approved application? Y / N / NA / NC / IND
28. If non-compliant with the application what is the severity rating? Low / Moderate / High / NC / IND
29. Is the harvest in compliance with the rules? Y / N / NA / NC / IND
30. If non-compliant with the rule what is the severity rating? Low / Moderate / High / NC / IND
- If non-compliant, describe the contributing factors in the appropriate category in the table below?**

Administrative	
Layout	
Operational	

Forested Wetland Compliance with FPA and with the Rules:

31. Is the harvest in compliance with the approved application? Y / N / NA / NC / IND
32. If non-compliant with the application what is the severity rating? Low / Moderate / High / NC / IND
33. Is the harvest in compliance with the rules? Y / N / NA / NC / IND
34. If non-compliant with the rule what is the severity rating? Low / Moderate / High / NC / IND
- If non-compliant, describe the contributing factors in the appropriate category in the table below?**

Administrative	
Layout	
Operational	

THIS PAGE INTENTIONALLY LEFT BLANK

Supplemental Water Information Form2011

FPA #: _____ Date: _____ Segment ID: _____ WRIA: _____

1. Was there any water or wetlands that appeared to be incorrectly typed on the FPA? Y N NC IND
(If YES, NC or IND to question 1, explain in comments and fill out appropriate section below.)
2. Was water type indicated on FPA different than that on the DNR hydro layer? Y N
(If yes to question 2, explain: FPA water type _____; DNR hydro layer water type _____)
3. Was documentation that the applicant verified water types included with the FPA? Y N
(If yes to question 3, check all that apply: WTCW __, WTMF __, Protocol Survey __, Other __)
4. Were physicals used to characterize water types in the above documentation (if any) accurate (e.g. BFW, gradient, basin size, barriers, channel connectivity, etc.)? Y N NA NC IND
(If NO, NC or IND to question 4, explain in comments, and fill out appropriate section below.)
5. Was there a stream indicated on FPA that did not exist on the ground? Y N NC IND
(If YES, what was the water type on the FPA? _____)
6. Was there a stream found on the ground that was not indicated on FPA? Y N NC IND
(If YES, what was the apparent water type for the stream? _____)
7. Was the stream size consistent with that reported on the FPA? Y N NA NC IND
8. If NO, NC or IND to question 7, would the discrepancy affect buffer width? Y N NC IND
9. Were there stream associated wetlands that were not included in the stream buffer determination? Y N NA NC IND
(If yes, what was the stream type? _____)
10. Was there a CMZ that was not reported on the FPA? Y N NA NC IND

11. Type S/F vs. Type N: Check all that apply

- BFW indicated on FPA was different than that observed (FPA width _____; Found width _____)
- Gradient from FPA was different than that observed (FPA gradient _____; Found gradient _____)
- Basin size appeared to be the default physical used, and appeared to be inaccurate (BFW and gradient both met Type F physicals, but box still checked on WTCW)
- Fish passage barrier was not described accurately
- Type break placed at temporary barrier (logjam, etc.) or man-made barrier (culvert, etc.)
- Dry reach or stream inappropriately treated as Type N
- Fish observed in water described by applicant as non-fish water
- Pond or wetland with ponded water >1/2 acre not treated as Type F, absent protocol survey
- Water labeled other than Type F appeared to meet Type F physicals (describe in comments)

