A Rapid Assessment of Sediment Delivery from Clearcut Timber Harvest Activities in the Battle Creek Watershed, Shasta and Tehama Counties, California

Appendix G

November, 2011
Appendix G

to

A Rapid Assessment of Sediment Delivery from Clearcut Timber Harvest Activities in the Battle Creek Watershed, Shasta and Tehama Counties, California

November, 2011

Report prepared at the request of
The California Resources Agency

by staff from

The California Department of Forestry and Fire Protection (CAL FIRE)
The California Department of Fish and Game (DFG)
The Central Valley Regional Water Resource Control Board (CV RWQCB)

and

The California Geological Survey (CGS)
Appendices

A - Battle Creek Turbidity Data
   A.1 - Battle Creek Turbidity Data Distributed September 20, 2011
   A.2 - October 3, 2011 CVRWQCB response to receipt of turbidity data
   A.3 - October 3, 2011 CVRWQCB review of turbidity data

B - Figures Used to Help Scope Agency Field Investigation

C - Assessment-Area Planning-Watershed Geology Maps

D - Assessment-Area Planning-Watershed Soils maps

E - Assessment-Area THP Information

F - Field Data-Collection Form

G - Completed Data-Collection Forms
General Information

Date: 9/14/11  Time: 2:300  Team#: S16a  THP#: 6153 - 1l2
Watershed #: 05250  GPS #: 060 71.55 / 44.8219  Site I.D.: [Blank]
Sec.: ________________________________  Township: ________________________________  Range: ________________________________
Camera I.D.: 63262  Photo number(s): [Blank]

Sediment Delivery

Has sediment delivered?  Yes  No  Maybe  Deliv. through buffer  ft. Buffer dist.
Receiving Watercourse Type?  Class I  Class II  Class III  Class IV
Associated with timber operations?  Yes  No  Maybe
Provide range of estimated volume delivered:  ≤ 1 cy  ≤ 5 cy  5–10 cy  > 10 cy

Erosion Source

Surface Erosion  Sheet wash  Gully (>6"x6")  Rill (< 6"x6")  Bank failure
Fluvial Erosion  Rotational  Debris slide  Translational  Debris torrent/flow
Explanation:
Relative age of source:  ≤ 1 yr  ≤ 5 yr  ≤ 10 yr  > 10 yr  Continuous

Sediment Source Association

Clearcut Unit
Unit ID: NEAK-413  Average Slope: ___%  Crossing name/I.D.: Rock Creek
Yarding method:  Tractor  Cable  Road name/I.D.: [Blank]
Contour ripped?  Yes  No  Ownership:  Private  Public
Soil type / Parent material:
Percent veg. cover: 0–25%  26–50%  51–75%  76–100%

Road
Road name/I.D.: Rock Creek [Blank]  Approaches:  Rocked  Paved  Native
Ownership:  Private  Public  Other:
Gated:  Yes  No  Functioning (partial failure=failure):  Yes  No
In the WLPZ/ELZ?  Yes  No  Approaches:  Rocked  Paved  Native
Surface:  Rocked  Paved  Native  Other:
Soil type / Parent material:
Road shape:  Insloped  Outsloped  Other:
Crowned  Other
Approx. length of road drainage to discharge point: 1000 ft.
Average road grade?

Other w/ explanation

General Recommendations

WSTHY MUD OF RANCHING CREEK 1000 OF VIVIN WITCH (FROM EAST) ABOUT 50M POTENTIALLY

Regulations

Were obviously known State Regulations/Laws violated?  Yes  No
Provide description of violation:

Comments (back of page)

Notes:
   U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 19
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
1-5 cu of sediment continuously occurring

About 50 cu of sediment, potentially delivered, but no evidence of sediment in outside ditch 100' from the east.

Not sure if county maintenance crew removed sediment from ditch.
**General Information**

Date: 4/14/94  
Time: 10:20

Team #: 56a  
THP #: 03-163  

Watershed #: 5507  
GPS #: N018613E, 42821321N

Sec.  
Township:  
Range:

Camera I.D.: 33721  
Photo number(s): 101

**Sediment Delivery**

- Has sediment delivered? [ ] Yes  
- Deliv. through buffer ft. Buffer dist.

- Receiving Watercourse Type? [ ] Class I  
- Class II  [ ] Class III  
- Class IV

- Associated with timber operations? [ ] Yes  
- Maybe

- Provide range of estimated volume delivered: [ ] <1 cy  
- [ ] 1-5 cy  
- [ ] 5-10 cy  
- [ ] >10 cy

**Erosion Source**

- Sheet wash  
- Gully (>6"x6")  
- Rill (<6"x6")  
- Bank failure

- Rotational  
- Translational  
- Debris slide

- Debris torrent/flow  
- Other w/ explanation

- Relative age of source: [ ] ≤1 yr  
- [ ] 1-5 yr  
- [ ] 5-10 yr  
- [ ] >10 yr  
- [ ] Continuous

**Sediment Source Association**

- Clearcut Unit  
- Watercourse Crossing/Drafting Site

- Unit ID: NEAK 444  
- Average Slope: ___%  

- Yarding method: [ ] Tractor  
- [ ] Cable

- Contour ripped? [ ] Yes  
- [ ] No

- Soil type / Parent material:

- Percent veg. cover:  
  - 0-25%  
  - 26-50%  
  - 51-75%  
  - 76-100%

- Road:

- Road name/l.I.D.:  
  - Cross Road  

- Ownership: [ ] Private  
- [ ] Public

- Gated: [ ] Yes  
- [ ] No

- In the WLPZ/ELZ? [ ] Yes  
- [ ] No

- Surface: [ ] Rocked  
- [ ] Paved  
- [ ] Native

- Soil type / Parent material:

- Road shape:  
  - Insloped  
  - Outsloped  
  - Crowned  
  - Other

- Approx. length of road drainage to discharge point: [ ] 530 ft.

- Average road grade? [ ] Average 10%  
- Other w/ explanation (F inaccessible)

- Explanation:

**General Recommendations**

**Crossing less than 100' from Canyon Creek**

**Regulations**

- Were obviously known State Regulations/Laws violated? [ ] Yes  
- [ ] No

- Provide description of violation:

**Comments (back of page)**

Notes:
   U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.

2. CGS datum use NAD 83, Zone 10

3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
General Information

Date: 9/14/11 Time: 12:10 Team#: SNA THP#: 8-03-1106
Watershed#: 0607 GPS#: 06050371/14418216
Sec. # Township: Photo number(s):
Camera I.D.: 23421 Range:

Sediment Delivery

Receiving Watercourse Type? [Class I] [Class II] [Class III] [Class IV]
Associated with timber operations? [Yes] No Maybe mult. yrs.?
Provide range of estimated volume delivered: ≤1 cy 1<5 cy 5<10 cy >10 cy

Erosion Source

Surface Erosion [Sheet wash] [Gully (>6"x6")]
Fluvial Erosion [Rotational] [Debris slide]
Rill (<6"x6") [Bank failure] [Translational] [Debris torrent/flow]
Mass Wasting Other w/ explanation
Explanation:
Relative age of source: ≤1 yr 1<5 yr 5<10 yr >10 yr Continuous

Sediment Source Association

Clearcut Unit

Unit ID: Average Slope: %
Yarding method: [Tractor] [Cable]
Contour ripped? [Yes] No
Soil type / Parent material:
Percent veg. cover: 0-25% 26-50% 51-75% 76-100%

Road

Road name/l.D.: Rock Creek Rd
Ownership: [Private] [Public]
Gated: [Yes] No
In the WLPZ/ELZ? [Yes] No
Surface: [Rocked] [Paved] [Native]
Soil type / Parent material:
Road shape: [Insloped] [Outsloped] [Crowned] [Other Thur-cut]
Approx. length of road drainage to discharge point: ft.
Average road grade?
Explanation:

Watercourse Crossing/Drafting Site

Crossing name/l.D.: Rock Creek Road
Ownership: [Private] [Public]
Type: [Bridge] [Tractor crossing]
Culvert: Diameter: in.
Ford: [Rocked] [Native]
Dip: [Rocked] [Native]
Other:
Functioning (partial failure=failure): [Yes] No
Approaches: [Rocked] [Paved] [Native]
Other:
Combined road approach length: ft.

Landing

Adequate drainage: [Yes] No
In the WLPZ/ELZ? [Yes] No
Percent veg. cover: 0-25% 26-50% 51-75% 76-100%

Soil type / Parent material:

General Recommendations

Intersection of County Rd. Rock Creek Rd + ZAD O
Bridge over Rock Creek, Sediment source is an annual contribution.

Regulations

Were obviously known State Regulations/Laws violated? [Yes] No
Provide description of violation:

Notes:
   U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
**General Information**

- **Date:** 4/14/11
- **Time:**
- **Team #:** SHA
- **THP:** E-03-162
- **Watershed #:** 6507
- **GPS:** 00D4642 / 44E8795 #9
- **Sec.:**
- **Township:**
- **Range:**
- **Camera I.D.:** 23421
- **Photo number(s):** 69
- **Site I.D.:** 58004

**Sediment Delivery**

- Has sediment delivered? Yes [ ] No [ ] Maybe [ ]
  - Deliv. through buffer [ ] ft. Buffer dist.
- Receiving Watercourse Type: [ ] Class I [ ] Class II [ ] Class III [ ] Class IV
- Associated with timber operations? Yes [ ] No [ ] Maybe [ ]
- Provide range of estimated volume delivered: [ ] ≤1 cy [ ] 1<5 cy [ ] 5<10 cy [ ] >10 cy [ ]

**Erosion Source**

- Sheet wash [ ] Gully (>6"x6") [ ] Rill (<6"x6") [ ] Bank failure [ ]
- Rotational [ ] Translational [ ] Debris slide [ ] Debris torrent/flow [ ]
- w/ explanation [ ]

**Explanation:**

- Relative age of source: ≤1 yr [ ] 1<5 yr [ ] 5<10 yr [ ] >10 yr [ ] Continuous [ ]

**Sediment Source Association**

- Clearcut Unit [ ]
- Road [ ]
- Watercourse Crossing/Drafting Site [ ]

- Unit ID: __________ Average Slope: ______ %
- Yarding method: [ ] Tractor [ ] Cable
- Contour ripped? Yes [ ] No [ ]
- Soil type / Parent material: __________
- Percent veg. cover: [ ] 0-25% [ ] 26-50% [ ] 51-75% [ ] 76-100%

- Road name/I.D.: Rock Creek Rd
- Ownership: [ ] Private [ ] Public
- Gated: Yes [ ] No [ ]
- In the WLPZ/ELZ? Yes [ ] No [ ]
- Surface: [ ] Rocked [ ] Paved [ ] Native
- Soil type / Parent material: __________
- Road shape: Insloped [ ] Outsloped [ ] Crowned [ ] Other [ ]
- Approx. length of road drainage to discharge point: ______ ft.
- Average road grade? 3% Average [ ]

**Explanations:**

- Other w/ explanation [ ]

**General Recommendations**

- Erosion comes from about 100' west of Rock Creek Via sheet wash from inside drain. [ ]
- Bridge [ ]

**Regulations**

- Were obviously known State Regulations/Laws violated? Yes [ ] No [ ]

**Provide description of violation:**

**Comments (back of page)**

**Notes:**

   - U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
**General Information**

Date: 11/14/11  Time: 11:30  Team #: 560  THP #: 0-03-162  Site #: 390

Watershed #: 606  GPS #: 010A0X51 4FRCEI

Sec.  Camera I.D.: 23421  Township: Photo number(s): 81-52

**Sediment Delivery**

- Has sediment delivered? Yes ☑ No
- Receiving Watercourse Type? Class I ☐ Class II ☐ Class III ☐ Class IV ☑
- Associated with timber operations? Yes ☑ No ☐
- Provide range of estimated volume delivered: ≤ 1 cy ☐ 1 ≤ 5 cy ☑ 5 ≤ 10 cy ☐ > 10 cy ☐

**Erosion Source**

- Surface Erosion: Sheet wash ☐ Gully (≥ 6"x6") ☐ Rill (≤ 6"x6") ☐ Bank failure ☐
- Fluvial Erosion: ☐ Rotational ☐ Tranlational ☐ Debris slide ☑
- Mass Wasting: Debris torrent/flow ☐
- Other: w/ explanation ☐

**Explanation:**

- Relative age of source: ≤ 1 yr ☐ 1 ≤ 5 yr ☐ 5 ≤ 10 yr ☐ > 10 yr ☐ Continuous ☐

**Sediment Source Association**

- Unit ID: 485  Average Slope: ___ %
- Yarding method: ☑ Tractor ☐ Cable
- Contour ripped? Yes ☐ No ☑
- Soil type / Parent material:
  - Percent veg. cover: 0-25% ☐ 26-50% ☐ 51-75% ☑ 76-100% ☐
- Clearcut Unit ☐ Watercourse Crossing/Drafting/Site ☐

**Road name/I.D.:**

- Ownership: ☑ Private ☐ Public
- Gated: Yes ☑ No ☐
- In the WLPZ/ELZ? ☑ Yes ☐ No ☒ Adjacent ☐
- Surface: ☑ Rocked ☐ Paved ☐ Native ☐
- Soil type / Parent material:
  - Road shape: Insloped ☐ Outsloped ☐ Crowned ☐ Other ☐
  - Approx. length of road drainage to discharge point: ______________ ft.
  - Average road grade? __________ %
  - Other w/ explanation: ☐

**General Recommendations**

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**Regulations**

Were obviously known State Regulations/Laws violated? Yes ☐ No ☑

Provide description of violation:

**Comments (back of page)**

Notes:
   - U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
### General Information

- **Date:** 9/14/11  
- **Time:** 1:30  
- **Team:**  
- **THP:** 7-03-162  
- **Watershed #:** 6607  
- **GPS:** N40°57.49' W82°02.85'  
- **Sec:**  
- **Camera I.D.:** 23421  
- **Township:**  
- **Photo number(s):** 102-105  
- **Site I.D.:** SW10

### Sediment Delivery

- **Has sediment delivered?:** Yes  
- **Receiving Watercourse Type?:** Class I  
- **Associated with timber operations?:** Yes  
- **Provide range of estimated volume delivered:** ≤1 cy  

### Erosion Source

- **Surface Erosion:** Steam wash  
- **Rill (<6"x6")**  
- **Explanation:** Relative age of source: ≤1 yr

### Sediment Source Association

- **Clearcut Unit:** 443  
- **Average Slope:** 20%  
- **Yarding method:** Tractor  
- **Contour ripped?:** Yes  
- **Soil type / Parent material:** Tall Grass  
- **Percent veg. cover:** 26-50%  
- **Road name/I.D.:**  
- **Ownership:** Private  
- **In the WLPZ/ELZ?:** Yes  
- **Surface:** Rocked  
- **Soil type / Parent material:**  
- **Road shape:** Crowned  
- **Approx. length of road drainage to discharge point:**  
- **Average road grade?:** %  

### General Recommendations:

### Regulations

- **Were obviously known State Regulations/Laws violated?:** Yes  

### Notes:

   - U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.  
2. CGS datum use NAD 83, Zone 10  
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
Date: 7/14/11  Time: 1:25PM  Team #: 592  THP # 2-03-162  Site I.D.: 31008
Watershed #: 6504  GPS #: 000000  44°21'42"
Sec.: 28721  Township: 30N  Range: 20E  Photo number(s): 10

Sediment Delivery
Has sediment delivered?  Yes  No  Maybe  Deliv. through buffer  ft. Buffer dist.
Receiving Watercourse Type?  Class I  Class II  Class III  Class IV
Associated with timber operations?  Yes  No  Maybe
Provide range of estimated volume delivered:  ≤ 1 cy  1 to 5 cy  5 to 10 cy  > 10 cy  cy³

Erosion Source
Surface/Erosion  Fluvial Erosion  Mass Wasting  Other
Sheet wash  Gully (>6" x 6")  Rotational  Debris slide  w/ explanation
Rill (<6" x 6")  Bank failure  Translational  Debris torrent/flow
Explanation:
Relative age of source:  ≤ 1 yr  1 to 5 yr  5 to 10 yr  > 10 yr  Continuous

Sediment Source Association
☐ Clearcut Unit  ☐ Watercourse Crossing/Drafting Site
Unit ID: 444  Average Slope: 50%
Yarding method:  Tractor  Cable
Contour ripped?  Yes  No
Soil type / Parent material:
Percent veg. cover:  0-25%  25-50%  51-75%  76-100%
☑  70%

Road
Road name/I.D.: 170
Ownership:  Yes  No
Gated:  Yes  No
In the WLPZ/ELZ?:  Yes  No
Surface:  Yes  No
Rocked  Paved  Native
Soil type / Parent material:

Road shape:  Insloped  Outsloped  Crowned  Other
Approx. length of road drainage to discharge point:  ft.
Average road grade?  %
Explanation:

General Recommendations
Intersection of Rock Creek Rd & 170

Regulations
Were obviously known State Regulations/Laws violated?  Yes  No
Provide description of violation:

Notes:
   U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGPS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
### General Information

- **Date:** 9/14/11
- **Time:** 11:40
- **Team:** shan
- **THP #:** 2-03-162
- **Watershed #:** 6507
- **GPS:** 00004901 1441077
- **Sec.:** 34
- **Photo number(s):** 53-54
- **Range:**

### Sediment Delivery

- **Has sediment delivered?**
  - [ ] Yes
  - [ ] No
  - [ ] Maybe
  - Deliv. through buffer
  - [ ] ft. Buffer dist.

- **Receiving Watercourse Type?**
  - [ ] Class I
  - [ ] Class II
  - [ ] Class III
  - [ ] Class IV

- **Associated with timber operations?**
  - [ ] Yes
  - [ ] No
  - [ ] Maybe

- **Provide range of estimated volume delivered:**
  - [ ] ≤1 cu
  - [ ] 1≤5 cu
  - [ ] 5≤10 cu
  - [ ] >10 cu
  - [ ] cu³

### Erosion Source

- **Surface Erosion**
  - [ ] Sheet wash
  - [ ] Gully (>6'x6')

- **Fluvial Erosion**
  - [ ] Rill (<6'x6')
  - [ ] Bank failure

- **Mass Wasting**
  - [ ] Rotational
  - [ ] Translational

- **Other**
  - [ ] Debris slide
  - [ ] w/ explanation

- **Explanation:**
  - [ ] Relative age of source:
    - [ ] ≤1 yr
    - [ ] 1≤5 yr
    - [ ] 5≤10 yr
    - [ ] >10 yr
    - [ ] Continuous

### Sediment Source Association

- **Clearcut Unit:**
  - **Unit ID:** 475
  - **Average Slope:** [ ] %

- **Yarding method:**
  - [ ] Tractor
  - [ ] Cable

- **Contour ripped?**
  - [ ] Yes
  - [ ] No

- **Soil type / Parent material:**
  - [ ] Percent veg. cover:
    - [ ] 0-25%
    - [ ] 26-50%
    - [ ] 51-75%
    - [ ] 76-100%

- **Road:**
  - **Road name/l.D.:** 4039
  - **Ownership:**
    - [ ] Public
    - [ ] Private
    - [ ] Gated:
      - [ ] Yes
      - [ ] No
    - **In the WLPZ/ELZ?**
      - [ ] Yes
      - [ ] No
    - **Surface:**
      - [ ] Rocked
      - [ ] Paved
      - [ ] Native
    - **Soil type / Parent material:**
      - [ ] Road shape:
        - [ ] Insloped
        - [ ] Outsloped
        - [ ] Crowned
        - [ ] Other
      - **Approx. length of road drainage to discharge point:** [ ] ft.
      - **Average road grade:** [ ] %

- **Explanation:**
  - [ ] Other w/explanation

### General Recommendations

### Regulations

- **Were obviously known State Regulations/Laws violated?**
  - [ ] Yes
  - [ ] No

- **Provide description of violation:**

### Comments (back of page)

### Notes:

2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cu and are determined to be significant to report.
General Information

Date: 11/14/11  Time: 11:00 AM  Team #: SHI  THP #: 2-03-102
Watershed #: 5007  GPS #: 0004251/A4K0340
Sec.: 23-40-1  Township: Photo number(s): 41-50
Camera I.D.: 23401  Range: 41-50

Sediment Delivery
Has sediment delivered?  Yes  No  Maybe  Deliv. through buffer  ft. Buffer dist.
Receiving Watercourse Type?  Class I  Class II  Class III  Class IV
Associated with timber operations?  Yes  No  Maybe
Provide range of estimated volume delivered:  ≤1 cy  1-5 cy  5-10 cy  >10 cy  cy³

Erosion Source
Surface Erosion:  Sheet wash  Gully (>6"x6")  Rill (<6"x6")  Bank failure
Fluvial Erosion:  Rotational  Translational  Debris slide  Debris torrent/flow
Mass Wasting:  w/ explanation
Other:
Explanation: Relative age of source:  ≤1 yr  1-5 yr  5-10 yr  >10 yr  Continuous

Sediment Source Association

Clearcut Unit: 455  Average Slope: 20 %
Yarding method:  Tractor  Cable
Contour ripped?:  Yes  No
Soil type / Parent material:
Percent veg. cover:  0-25%  26-50%  51-75%  76-100%

Watercourse/Crossing/Drafting Site
Crossing name/I.D.:
Road name/I.D.:
Ownership:  Private  Public
Type:  Bridge  Tractor crossing
Culvert: Diameter: ________ in.
Ford:  Rocked  Native
Dip:  Rocked  Native
Other:

Functioning (partial failure=failure):  Yes  No
Approaches:  Rocked  Paved  Native
Other:
Combined road approach length: ________ ft.

Landing
Adequate drainage:  Yes  No
In the WLPZ/ELZ?:  Yes  No
Percent veg. cover:  0-25%  26-50%  51-75%  76-100%
Soil type / Parent material:

Explanation:

General Recommendations
Examined 4 tractor crossings and identified:
No evidence of delivery on road segment.

Regulations
Were obviously known State Regulations/Laws violated?  Yes  No
Provide description of violation:

Notes:
   U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
### General Information
- **Date:** 4/14/11
- **Time:** 10:45
- **Team:** SWA
- **THP:** 3-D-3-16a-59a
- **Watershed:** 8504
- **GPS:** 0601989 / 477124
- **Sec.:** 27
- **Township:** 17
- **Range:** 40
- **Camera I.D.:** 23721
- **Photo number(s):** 47-48

### Sediment Delivery
- **Has sediment delivered?:** [ ] Yes [ ] No [ ] Maybe [ ] Deliv. through buffer [ ] ft. Buffer dist.
- **Receiving Watercourse Type:** [ ] Class I [ ] Class II [ ] Class III [ ] Class IV
- **Associated with timber operations?:** [ ] Yes [ ] No [ ] Maybe
- **Provide range of estimated volume delivered:** [ ] ≤1 cy [ ] 1≤5 cy [ ] 5≤10 cy [ ] >10 cy [ ] cy³

### Erosion Source
- **Surface Erosion:** [ ] Sheet wash [ ] Gully (>6"x6") [ ] Rotational [ ] Debris slide [ ] w/ explanation
- **Fluvial Erosion:** [ ] Rill (≤ 6"x6") [ ] Bank failure [ ] Translational [ ] Debris torrent/flow
- **Explanation:**
  - Relative age of source: [ ] ≤1 yr [ ] 1≤5 yr [ ] 5≤10 yr [ ] >10 yr [ ] Continuous

### Sediment Source Association
- **Clearcut Unit:** [ ]
- **Unit ID:** 491
- **Average Slope:** __________ %
- **Yarding method:** [ ] Tractor [ ] Cable
- **Contour ripped?** [ ] Yes [ ] No
- **Soil type / Parent material:**
  - **Percent veg. cover:** [ ] 0-25% [ ] 25-50% [ ] 50-75% [ ] 75-100%

### Site ID:
- **Road name/l.d.:**
- **Ownership:** [ ] Private [ ] Public
- **Type:** [ ] Bridge [ ] Tractor crossing
- **Culvert:** Diameter: __________ in.
- **Ford:** [ ] Rocked [ ] Native
- **Dip:** [ ] Rocked [ ] Native
- **Other:**
- **Functioning (partial failure=failure):** [ ] Yes [ ] No
- **Approaches:** [ ] Rocked [ ] Paved [ ] Native
- **Other:**
- **Combined road approach length:** __________ ft.

### Erosion did not leave the site.

### General Recommendations

### Regulations
- **Were obviously known State Regulations/Laws violated?** [ ] Yes [ ] No
- **Provide description of violation:**

### Comments (back of page)

### Notes:
2. U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
**Date:** 9/14/11  **Time:** 9 a.m.  **Team #:** S2A  **THP #:** 3-03-162 S2A  **Site I.D.:** 44041  
**Watershed #:** 55 A 7 7  **GPS #:** N 11 4 2 5 3 A 14 7 0 6 7  **Sec.:** 0-0  **Township:** 3-0-0  **Range:** -  
**Camera I.D.:** 237 21  **Photo number(s):** 44-46  

### Sediment Delivery
- **Has sediment delivered?** Yes  
- **Receiving Watercourse Type?** Class I  
- **Associated with timber operations?** Yes  
- **Provide range of estimated volume delivered:** 
  - ≤ 1 cu yd  
  - 1-5 cu yd  
  - 5-10 cu yd  
  - > 10 cu yd  
  - No  
- **Surface Erosion:** 
  - Sheet wash  
  - Rill (≤ 6"x6")  
- **Erosion Source:** 
  - Gully (>6"x6")  
  - Bank failure  
  - Rotational  
  - Translational  
  - Debris slide  
  - Debris torrent/flow  
- **Explanation:**  
- **Relative age of source:** 
  - ≤ 1 yr  
  - 1-5 yr  
  - 5-10 yr  
  - > 10 yr  
  - Continuous  

### Clearcut Unit
- **Unit ID:** 484  
- **Average Slope:** 5%  
- **Yarding method:** Yes  
- **Contour ripped:** No  
- **Soil type / Parent material:** 
  - Percent veg. cover: 0-25%  
  - 25-50%  
  - 51-75%  
  - 75-100%  
- **Road name/I.D.:**  
- **Ownership:** Private  
- **Type:** Bridge  
- **Culvert:** Diameter:  
- **Ford:** Rocked  
- **Dip:** Rocked  
- **Functional (partial failure=failure):** No  
- **Approaches:** Rocked  
- **Combined road approach length:**  
- **Adequate drainage:** No  
- **In the WLPZ/ELZ:** Yes  
- **Percent veg. cover:** 0-25%  
- **Soil type / Parent material:**  

### General Recommendations

### Regulations
- **Were obviously known State Regulations/Laws violated?** Yes  

### Comments (back of page)

**Notes:**
2. CGS datum use NAD 83, Zone 10  
3. Use to provide volume estimate for sites that exceed 10 cu yd and are determined to be significant to report.
### General Information

- **Date:** 1/14/11
- **Time:** 9:00
- **Team:** SVA
- **THP #:** 0-03-162
- **Watershed #:** 697
- **GPS:** X: 001726 Y: 4481891
- **Sec.:** 3
- **Camera I.D.:** 23721
- **Photo number(s):** 07-09

### Sediment Delivery

- Has sediment delivered? ☑ Yes  ☐ No  ☐ Maybe  Deliv. through buffer  ☐ ft. Buffer dist.
- Receiving Watercourse Type?  ☐ Class I  ☐ Class II  ☐ Class III  ☐ Class IV
- Associated with Timber operations?  ☑ Yes  ☐ No  ☐ Maybe
- Provide range of estimated volume delivered:  ☐ ≤ 1 cy  ☐ 1-5 cy  ☐ 5-10 cy  ☐ > 10 cy  ☐ cy³

### Erosion Source

- **Surface Erosion:**
  - ☐ Sheet wash
  - ☐ Gully (>6’ × 6’)
  - ☐ Rill (≤ 6’ × 6’)
  - ☐ Bank failure
- **Fluvial Erosion:**
  - ☐ Rotational
  - ☐ Translational
- **Mass Wasting:**
  - ☐ Debris slide
  - ☐ Debris torrent/flow
- **Explanation:**
- Relative age of source:  ☐ ≤ 1 yr  ☐ 1-5 yr  ☐ 5-10 yr  ☐ > 10 yr  ☐ Continuous

### Sediment Source Association

- **Clearcut Unit:** ☑
- **Average Slope:** _____%
- **Yarding method:** ☐ Tractor  ☐ Cable
- **Contour ripped?**  ☐ Yes  ☐ No
- **Soil type / Parent material:**
  - ☐ 0-25%
  - ☐ 26-50%
  - ☐ 51-75%
  - ☐ 76-100%
- **Road name / I.D.:**
- **Ownership:** ☐ Private  ☐ Public
- **Type:** ☐ Bridge
- **Culvert:** Diameter: ______ in.
- **Ford:** ☐ Rocked  ☐ Native
- **Dip:** ☐ Rocked  ☐ Native
- **Other:**
- **Functioning (partial failure = failure):** ☐ Yes  ☐ No
- **Approaches:** ☐ Rocked  ☐ Paved  ☐ Native
- **Other:**
- **Combined road approach length:** ______ ft.
- **Landing**
  - Adequate drainage: ☐ Yes  ☐ No
  - In the WLPZ/ELZ?  ☐ Yes  ☐ No
  - Percent veg. cover: ☐ 0-25%  ☐ 26-50%
  - ☐ 51-75%  ☐ 76-100%
  - **Soil type / Parent material:**

### General Recommendations

### Regulations

Were obviously known State Regulations/Laws violated?  ☑ Yes  ☐ No

Provide description of violation:

### Comments (back of page)

**Notes:**

   - U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
**General Information**

- **Date:** 1/15/11
- **Time:** 1:10p
- **Team:** SIA
- **Watershed #:** 550+
- **GPS #:** D6048001 4479115
- **Camera I.D.:** 2379
- **Township:**
- **Range:**
- **Photo number(s):** 100-104
- **Site I.D.:** 81027

**Sediment Delivery**

- **Has sediment delivered?**
  - Yes
  - No
- **Receiving Watercourse Type?**
  - Class I
  - Class II
  - Class III
  - Class IV
- **Associated with timber operations?**
  - Yes
  - No
- **Provide range of estimated volume delivered:**
  - ≤1 cy
  - 1≤5 cy
  - 5≤10 cy
  - >10 cy

**Erosion Source**

- **Surface Erosion:**
  - Sheet wash
  - Rill (<6"x6")
- **Fluvial Erosion:**
  - Gully (>6"x6")
  - Bank failure
- **Mass Wasting:**
  - Rotational
  - Translational
- **Other:**
  - Debris slide
  - Debris torrent/flow
  - w/ explanation

**Explanation:**

- **Relative age of source:**
  - ≤1 yr
  - 1≤5 yr
  - 5≤10 yr
  - >10 yr
  - Continuous

**Sediment Source Association**

- **Clearcut Unit:**
  - Unit ID: A10
  - Average Slope: __%
- **Yarding method:**
  - Yes
  - No
- **Contour ripped?**
  - Yes
  - No
- **Soil type / Parent material:**
  - 0-25%
  - 25-50%
  - 51-75%
  - 76-100%

**Road name/I.D.:**

- **Ownership:**
  - Private
  - Public
- **Gated:**
  - Yes
  - No
- **In the WLPZ/ELZ?**
  - Yes
  - No
- **Surface:**
  - Rocked
  - Paved
  - Native
- **Soil type / Parent material:**
  - Rocked
  - Paved
  - Native
- **Road shape:**
  - Insloped
  - Outsloped
  - Crowned
  - Other
- **Approx. length of road drainage to discharge point:** __ ft.
- **Average road grade:** %
- **Explanation:**
  - Diverted class III diversion appears natural has occurred in past.

**General Recommendations**

**Regulations**

- **Were obviously known State Regulations/Laws violated?**
  - Yes
  - No
  - Provide description of violation:

**Comments (back of page)**

**Notes:**

   - U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
Stream diverted (naturally) in low-level spots. Several braids diverted off the stream in about 4 spots. Sediment delivered due to natural diversion of a class 3.
Natural braided 3, breached historic channel & created new channel.
### General Information

**Date:** 11/11/86  **Time:** 1:30  **Team #:** 501  **THP #:** 0-22-3-1

**Watershed #:** 5507  **GPS #:** 4438.36 / 4738.463

**Sec:** 23841  **Township:**  **Range:**

**Camera I.D.:** 23841  **Photo number(s):** 105-100  **#110**

### Sediment Delivery

- **Has sediment delivered?** Yes  No  Maybe  Deliv. through buffer  ft. Buffer dist.
- **Receiving Watercourse Type?** Class I  Class II  Class III  Class IV
- **Associated with timber operations?** Yes  No  Maybe

**Provide range of estimated volume delivered:**
- ≤1 cy
- 1<5 cy
- 5<10 cy
- >10 cy
- cy³

### Erosion Source

- **Surface Erosion:** Sheet wash  Gully (>6”x6”)  Rill (<6’x6”)  Bank failure
- **Fluvial Erosion:** Rotational  Translational  Debris slide  Debris torrent/flow

**Explanation:**

**Relative age of source:**
- ≤1 yr
- 1<5 yr
- 5<10 yr
- >10 yr
- Continuous

### Sediment Source Association

- **Clearcut Unit:**
  - **Unit ID:** 403
  - **Average Slope:** ___%

- **Yarding method:** Tractor  Cable
- **Contour ripped?** Yes  No

- **Soil type / Parent material:**
  - **Percent veg. cover:**
    - 0-25%
    - 26-50%
    - 51-75%
    - 76-100%

- **Road:**

- **Ownership:** Private  Public
- **Gated:** Yes  No

- **In the WLPZ/ELZ?** Yes  No

- **Surface:** Rocked  Paved  Native

- **Soil type / Parent material:**

- **Road shape:**
  - Insloped
  - Outsloped
  - Crowned
  - Other

- **Approx. length of road drainage to discharge point:** ___ ft.
- **Average road grade:** ___%

**Explanation:**

### General Recommendations

### Regulations

- **Were obviously known State Regulations/Laws violated?** Yes  No

**Provide description of violation:**

### Comments (back of page)

**Notes:**
   - U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
Checked out 2 tractor crossing, no measurable sediment delivery.

Checked out Grass I wrote, no sediment delivery.
**General Information**

Date: 9/15/11  Time: 11:00am  Team #: SKW  THP #: 2-03-162  
Watershed #: 527  GPS #: No Data  Range: 
Sec: 23  Township:  
Camera I.D.: 23421  Photo number(s): 84-89

**Sediment Delivery**

- Has sediment delivered? [✓] Yes  [ ] No  [ ] Maybe  Deliv. through buffer [ ] ft. Buffer dist.
- Receiving Watercourse Type? [✓] Class I  [ ] Class II  [ ] Class III  [ ] Class IV
- Associated with timber operations?  [✓] Yes  [ ] No  [ ] Maybe
- Provide range of estimated volume delivered:  [✓] ≤1 cy  [ ] ≤5 cy  [ ] 5-10 cy  [ ] >10 cy

**Erosion Source**

- Surface Erosion: [✓] Sheet wash  [ ] Gully (>6"x6")  [ ] Rill (<6"x6")  [ ] Bank failure
- Fluvial Erosion: [ ] Rotational  [ ] Translational  [ ] Debris slide / flow
- Mass Wasting: [ ] w/ explanation
- Other:  

**Explanation:**

Relative age of source:  [ ] ≤1 yr  [ ] ≤5 yr  [ ] ≤10 yr  [ ] >10 yr  [✓] Continuous

**Sediment Source Association**

- [ ] Clearcut Unit
- Unit ID:  
- Average Slope:  [ ]
- Yarding method:  [ ] Tractor  [ ] Cable
- Contour ripped?  [ ] Yes  [ ] No
- Soil type / Parent material:  
  - Percent veg. cover:  [ ] 0-25%  [ ] 26-50%  [ ] 51-75%  [ ] 76-100%

**Road**

- Road name/l.I.D.:  
- Ownership:  [✓] Private  [ ] Public
- Gated:  [ ] Yes  [ ] No
- In the WLPZ/ELZ?  [✓] Yes  [ ] No

**Surface:**  
- [ ] Rocked  [ ] Paved  [ ] Native
- Soil type / Parent material:  
- Road shape:  [ ] Insloped  [ ] Outsloped  [ ] Crowned  [ ] Other
- Approx. length of road drainage to discharge point:  [ ] ft.
- Average road grade:  [ ]

**Explanation:**

- Other w/ explanation:

**Watercourse Crossing/Drafting Site**

- Crossing name/l.I.D.:  Rock Creek  
- Road name/l.I.D.:  2 Line (across from 125)
- Ownership:  [✓] Private  [ ] Public
- Type:  [✓] Bridge  [ ] Tractor crossing
- Culvert:  Diameter:  [ ] in.
- Ford:  [ ] Rocked  [ ] Native
- Dip:  [ ] Rocked  [ ] Native
- Other:  SW corner of 419

Functioning (partial failure=failure):  [✓] Yes  [ ] No

Approaches:  [✓] Rocked  [ ] Paved  [ ] Native

- Combined road approach length:  [ ] 800 ft.

**Landing**

- Adequate drainage:  [✓] Yes  [ ] No
- In the WLPZ/ELZ?  [ ] Yes  [ ] No
- Percent veg. cover:  [ ] 0-25%  [ ] 26-50%  [ ] 51-75%  [ ] 76-100%

**Soil type / Parent material:**

**General Recommendations**

**Regulations**

Were obviously known State Regulations/Laws violated?  [ ] Yes  [ ] No

Provide description of violation:

**Comments (back of page)**

Notes:
   U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
Sediment source is due to gulls.
**General Information**

Date: 11/12 Time: 12:30 PM Team: 310a THP #: 2-03-16a Sec. 9 Township: Range: 24-44-48

**Sediment Delivery**

- Receiving Watercourse Type? [ ] Class I [ ] Class II [ ] Class III [ ] Class IV
- Associated with timber operations? [ ] Yes [ ] No [ ] Maybe
- Provide range of estimated volume delivered: [ ] ≤1 cy [ ] 1≤5 cy [ ] 5≤10 cy [ ] >10 cy [ ] cy³

**Erosion Source**

- Surface Erosion: [ ] Wash [ ] Gully (>6"x6") [ ] Rill (<6"x6") [ ] Bank failure
- Mass Wasting: [ ] Rotational [ ] Debris slide
- Erosion Source: [ ] Other w/ explanation

**Sediment Source Association**

- Clearcut Unit: [ ] Yes [ ] No
- Yarding method: [ ] Tractor [ ] Cable
- Contour ripped? [ ] Yes [ ] No
- Soil type / Parent material: [ ] Fine soil
- Percent veg. cover: [ ] 0-25% [ ] 26-50% [ ] 51-75% [ ] 76-100%
- Road name/l.D.:
- Ownership: [ ] Private [ ] Public
- Gated: [ ] Yes [ ] No
- In the WLPZ/ELZ? [ ] Yes [ ] No
- Surface: [ ] Rocked [ ] Paved [ ] Native
- Soil type / Parent material:
- Road shape: [ ] Insloped [ ] Outsloped
- Approx. length of road drainage to discharge point: __________ ft.
- Average road grade: ________ %
- Other w/ explanation:

**General Recommendations**

**Regulations**

Were obviously known State Regulations/Laws violated? [ ] Yes [ ] No

Provide description of violation:

**Comments (back of page)**

Notes:
   - U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
Team walked the entire clear-out section along the cliffs & saw no signs of sediment delivery.
Date: 11/15/11 Time: 19:15:22 Team #: 12k THP #: 2-03-15X
Watershed #: 6507 120402 GPS #: 016089.7A 447741
Sec. 24 Township: 30 Range: 2E
Camera I.D.: 35723 Photo number(s): 114-115

Sediment Delivery
Has sediment delivered? Yes No Maybe Deliv. through buffer ft. Buffer dist.
Receiving Watercourse Type? Class I Class II X Class III No Class IV
Associated with timber operations? Yes No Maybe See note below
Provide range of estimated volume delivered: ≤ 1 cy 1-5 cy 5-10 cy > 10 cy unknown

Erosion Source
Sheet wash Gully (>6"x6") Rotational Debris slide W/ explanation
Rill (<6"x6") Bank failure Translational Debris torrent/flow
Explanation:
Relative age of source: ≤ 1 yr 1-5 yr 5-10 yr > 10 yr Continuous

Sediment Source Association
Clearcut Unit
Unit ID: 151 Average Slope: %
Yarding method: Tractor Cable
Contour ripped? Yes No
Soil type / Parent material: Hard, silty, heavy
Percent veg. cover: 0-25% 26-50%
51-75% 76-100%
Road name/i.d.:
Ownership: Private Public
Gated: Yes No
In the WLPZ/ELZ? Yes No
Surface: Rocked Paved Native
Soil type / Parent material:
Road shape: Insloped Outsloped Crowned Other
Road name/i.d.:
Ownership: Private Public
Gated: Yes No
In the WLPZ/ELZ? Yes No
Surface: Rocked Paved Native
Soil type / Parent material:
Road shape: Insloped Outsloped Crowned Other
Approx. length of road drainage to discharge point: ft.
Average road grade: %
Explanation:

General Recommendations
Part of ZDR Fry Suppression in WLPZ or UNO in ELZ
Sediment not derived from clear cut, minimal sed from flow, minimal amount from sheet wash, or

Regulations
Were obviously known State Regulations/Laws violated? Yes No
Provide description of violation:

Comments (back of page):

Notes:
   U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
Volume Sediment difficult to estimate because it was due to Sheet wash.
**General Information**

- Date: 1/5/1
- Time: 1:30 PM
- Team: Thu
- THP: 0-152-158
- Watershed #: 6607.126402
- GPS #: 011148 144773.65
- Sec.: 19
- Township: 20N
- Range: 6-35
- Camera I.D.: 83723
- Photo number(s): 108-111
- Site I.D.: TU-008

**Sediment Delivery**

- Has sediment delivered? Yes [ ] No [ ]
- Receiving Watercourse Type? Class I [ ] Class II [ ] Class III [ ] Class IV [ ]
- Associated with timber operations? Yes [ ] No [ ] Maybe [ ]
- Deliv. through buffer [ ] ft. Buffer dist.
- Provide range of estimated volume delivered:
  - <=1 cy [ ] 1-5 cy [ ] 5-10 cy [ ] >10 cy [ ]

**Erosion Source**

- Sheet wash [ ] Gully (>6" x 6") [ ]
- Rill (< 6" x 6") [ ] Bank failure [ ]
- Rotational [ ] Translational [ ]
- Debris slide [ ] Debris torrent/flow [ ]

**Explanation:**

- Relative age of source:
  - <=1 yr [ ] 1-5 yr [ ] 5-10 yr [ ] >10 yr [ ] Continuous [ ]

**Sediment Source Association**

- Clearcut Unit [ ]
- Unit ID: 154
- Average Slope: ___ %
- Yarding method: [ ] Tractor [ ] Cable
- Contour ripped? Yes [ ] No [ ]
- Soil type / Parent material:
  - [ ] 0-25% 26-50% 51-75% 76-100%
- Percent veg. cover:
  - Road [ ]
- Road name / I.D.:
  - Ownership: [ ] Private [ ] Public
  - Gated: [ ] Yes [ ] No
  - In the WLPZ/ELZ?: [ ] Yes [ ] No
  - Surface: [ ] Rocked [ ] Paved [ ] Native
  - Soil type / Parent material:
  - Road shape:
  - Inslped [ ] Outsloped [ ]
  - Crowned [ ] Other [ ]
  - Approx. length of road drainage to discharge point: ft.
  - Average road grade: ___ %

**General Recommendations**

- Note on back

**State Regulations**

- Were obviously known State Regulations/Laws violated? Yes [ ] No [ ]
- Provide description of violation:

**Comments (back of page)**

Notes:

   - U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
Class ill of SW corner. Found no evidence of delivery of sediment delivery from unit.
Date: 9/16/11  Time: 9:14a  Team #: S12  THP #: H-12-1120
Watershed #: 567  GPS #: 0600181  14397740
Sec.  Township:  Range:  Camera I.D.: 23721  Photo number(s): 49-80

Sediment Delivery
Has sediment delivered? [ ] Yes [ ] No [ ] Maybe  Deliv. through buffer ft. Buffer dist.
Receiving Watercourse Type? [ ] Class I [ ] Class II [ ] Class III [ ] Class IV
Associated with timber operations? [ ] Yes [ ] No [ ] Maybe
Provide range of estimated volume delivered: [ ] < 1 cy [ ] 1-5 cy [ ] 5-10 cy [ ] > 10 cy

Erosion Source
Surface Erosion
[ ] Sheet wash [ ] Gully (>6"x6") [ ] Rotational [ ] W/ explanation
[ ] Rill (6"x6") [ ] Bank failure [ ] Translational [ ] Debris torrent/flow
Explanation:
Relative age of source: [ ] < 1 yr [ ] 1-5 yr [ ] 5-10 yr [ ] > 10 yr [ ] Continuous (CLOSE TO TO VEG)

Sediment Source Association
[ ] Clearcut Unit
Unit ID:  [ ] Average Slope: %
Yarding method: [ ] Tractor [ ] Cable  Contour ripped? [ ] Yes [ ] No
Soil type / Parent material:
Percent veg. cover: [ ] 0-25% [ ] 26-50%  [ ] 51-75% [ ] 76-100%
[ ] Road
Road name/I.D.:  91-7
Ownership: [ ] Private [ ] Public
Gated: [ ] Yes [ ] No
In the WLPZ/ELZ?: [ ] Yes [ ] No
Surface: [ ] Rocked [ ] Paved [ ] Native
Soil type / Parent material: Fine Soil
Road shape: [ ] Insloped [ ] Outsloped (Slightly)  [ ] Crowned [ ] Other
Approx. length of road drainage to discharge point:  ADD ft.
Average road grade:  5 %
Explanation:
[ ] Other w/ explanation

General Recommendations
Road is Failure due to inadequate maintenance. Water went over road bar a contd flow that.

Regulations
Were obviously known State Regulations/Laws violated? [ ] Yes [ ] No (Road Not OK of most current THP)
Provide description of violation:

Comments (back of page)

Notes:
   U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 93, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
Sediment delivery: difficult to say if sediment reached Class 3. No evidence of sediment in watercourse but obvious sediment build-up on edge of bank. Possible algae in Class 3.

See notes on SH020
General Information
Date: 9/13/11 Time: 9:30 AM Team #: 179A THP #: 3-03-112
Watershed #: 3307 GPS: 400 N 10E 2I 4479528
Sec.: 23 T 21 Range: Photo number(s): 44-78
Camera I.D.: 23 21

Sediment Delivery
Has sediment delivered? [✓] Yes No Maybe Deliv. through buffer ft. Buffer dist.
Receiving Watercourse Type? [✓] Class III No Maybe
Associated with timber operations? [✓] Yes
Provide range of estimated volume delivered: <1 cy <5 cy 5-10 cy >10 cy cy³

Erosion Source
Surficial Erosion
[✓] Sheet wash Gully (>6"x6") Bank failure
[✓] Rill (<6"x6") Rotational Translational
Explanation: w/ explanation
Mass Wasting
[✓] Debris slide Debris torrent/flow
Relative age of source: <1 yr 1-5 yr 5-10 yr >10 yr Continuous (D10 to 5 yrs)

Sediment Source Association
Clearcut Unit
[ ] Unit ID: [ ] Average Slope: [ ] %
[✓] Tractor [ ] Cable
Yarding method:
[ ] Contour ripped? Yes No
Soil type / Parent material:
Percent veg. cover: 0-25% 26-50% 51-75% 76-100%
[✓] Road
Road name/ID: 9 0 Z
Owner: [✓] Private [ ] Public
Gated: [✓] Yes [ ] No
In the WLPZ/ELZ? [✓] Yes [ ] No
Surface: [✓] Rocked [ ] Paved [✓] Native
Soil type / Parent material: FINE SOIL
Road shape: [✓] Insloped Outsloped [✓] Crowned Other
Approx. length of road drainage to discharge point: 500 ft
Average road grade: [ ] [ ]%
Explanation: Other w/ explanation

Watercourse Crossing/Drafting Site
[ ] Crossing name/ID:
[ ] Road name/ID:
Owner: [✓] Private [ ] Public
Type: [ ] Bridge [✓] Tractor crossing
Culvert Diameter: in.
Ford: [✓] Rocked [ ] Native
Dip: [✓] Rocked [ ] Native
Other:
Functioning (partial failure=failure): [✓] Yes [ ] No
Approaches: [✓] Rocked [ ] Paved [ ] Native
Other:
Combined road approach length: ft.

Landing
[ ] Adequate drainage: [✓] Yes [ ] No
In the WLPZ/ELZ? [✓] Yes [ ] No
Percent veg. cover: 0-25% 26-50% 51-75% 76-100%
Soil type / Parent material:

General Recommendations

Regulations
Were obviously known State Regulations/Laws violated? [ ] Yes [✓] No
Provide description of violation:

Comments (back of page)

Notes:
   U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
See notes on 5R020.
General Information

Date: 9/11/91 Time: 10:20 Team #: S12 THP #: 23-75-15a
Watershed #: 557 Camera I.D.: 23721
Sec: 5
Gps #: N40 069371 A494712 Township: Photo number(s): 55-84
Range: 20

Sediment Delivery

Has sediment delivered? [Yes] [No] [Maybe] Deliv. through buffer ft. Buffer dist.
Receiving Watercourse Type? [Class I] [Class II] [Class III] [Class IV]
Associated with timber operations? [Yes] [No] [Maybe]
Provide range of estimated volume delivered: ≤1 cy [1≤5 cy] [5≤10 cy] >10 cy cy³

Erosion Source

[ ] Sheet wash [ ] Gully (>6"x6") [ ] Rotational [ ] Debris slide [ ] w/ explanation
[ ] Rill (<6"x6") [ ] Bank failure [ ] Translational [ ] Debris torrent/flow
Explanation:
Relative age of source: ≤1 yr [1≤5 yr] [5≤10 yr] >10 yr Continuous

Sediment Source Association

[ ] Clearcut Unit [ ] Watercourse Crossing/Drafting Site

Unit ID: Average Slope: %
Yarding method: [Tractor] [Cable]
Contour ripped? [Yes] [No]
Soil type / Parent material:
Percent veg. cover: 0-25% [25-50%] [51-75%] [76-100%]
[ ] Road
Road name/l.I.D.: 90 Z
Ownership: [Private] [Public]
Gated: [Yes] [No]
In the WLPZ/ELZ? [Yes] [No]
Surface: [Rocked] [Paved] [Native]
Soil type / Parent material:
Road shape: [Insloped] [Outsloped] [Crowned] [Other]
Approx. length of road drainage to discharge point: 600 ft.
Average road grade: %

Explanation:

General Recommendations

Road should be relocated or rockered

Regulations

Were obviously known State Regulations/Laws violated? [Yes] [No] Not part of current THP
Provide description of violation:

Notes:
   U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
Legacy Road

This road segment is referred to as 902 - Southern Boundary of Unit 452 to Unit 453
(Start of 453 to Start of 458)
Includes SR016 - SR020

Road Segment 902-7

Start: Intersection of 902 I w/ #21.1

End: Southern unit boundary of Unit 452

Native surface, through cut, contoured, w/reads and
Outside drainage, legacy road, ex.shy

Distance <= 2500'

Includes Erosion sites SR016 - SR020
General Information:
Date: 9/1/5
Time: 10:01
Team: 3
Watershed #: SE
GPS #: N00008888 / A4 24 19608
Sec. 24
Township: 9
Range: 83-84
Camera I.D.: 24-93
Photo number(s): 83-84

Sediment Delivery:
Has sediment delivered? Yes No Maybe Deliv. through buffer ft. Buffer dist.
Receiving Watercourse Type? Class I Class II Class III Class IV
Associated with timber operations? Yes No Maybe
Provide range of estimated volume delivered: <1 cy ≤5 cy 5≤10 cy >10 cy cy³

Erosion Source:
Surface Erosion
Fluvial Erosion
Sheet wash Gully (>6"x6")
Rill (<6"x6") Bank failure

Mass Wasting
Rotational Translational Debris slide Debris torrent/flow

Other w/ explanation

Explanation:
Relative age of source: <1 yr 1≤5 yr 5≤10 yr >10 yr Continuous

Sediment Source Association:
Clearcut Unit
Unit ID: 
Yarding method: Tractor Cable
Contour ripped? Yes No

Watercourse Crossing/Drafting Site
Crossing name/l.d.: 
Road name/l.d.: 
Ownership: Private Public
Type: Bridge Tractor crossing

Culvert Diameter: in.
Ford: Rocked Native
Dip: Rocked Native
Other:

Functioning (partial failure=failure): Yes No
Approaches: Rocked Paved Native
Other:

Combined road approach length: ft.

Landing:
Adequate drainage: Yes No
In the WLPZ/ELZ? Yes No

Percent veg. cover: 0-25% 26-50% 51-75% 76-100%
Soil type / Parent material:

Road shape: Insloped Outsloped Crowned Other
Approx. length of road drainage to discharge point: 350 ft.
Average road grade: 5 %
Other w/ explanation

Explanation:

General Recommendations:
Road should be abandoned & moved up slope or rock

Regulations:
Were obviously known State Regulations/Laws violated? Yes No

Provide description of violation:

Notes:
   U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.
2. CGS datum use NAD 83, Zone 10
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
See notes on SR020
**General Information:**

Date: 9/16/11  
Team #: SNP  
Watershed #: 660  
GPS #: 040580 014 4989  
Sec:  
Township:  
Range:  
Site I.D.:  

**Sediment Delivery:**

- Has sediment delivered? [ ] Yes  [ ] No  [ ] Maybe  Deliv. through buffer [ ] ft. Buffer dist.  
- Receiving Watercourse Type? [ ] Class I  [ ] Class II  [ ] Class III  [ ] Class IV  
- Associated with timber operations? [ ] Yes  [ ] No  [ ] Maybe  
- Provide range of estimated volume delivered:  
  - [ ] ≤1 cy  
  - [ ] 1≤5 cy  
  - [ ] 5≤10 cy  
  - [ ] >10 cy  

**Erosion Source:**

- Surface Erosion:  
  - [ ] Sheet wash  
  - [ ] Gully (>6"x6")  
  - [ ] Rill (<6"x6")  
  - [ ] Bank failure  
- Fluvial Erosion:  
  - [ ] Rotational  
  - [ ] Translational  
- Mass Wasting:  
  - [ ] Debris slide  
  - [ ] Debris torrent/flow  
- Other:  
  - [ ] w/ explanation  

**Explanation:**

- Relative age of source:  
  - [ ] ≤1 yr  
  - [ ] 1≤5 yr  
  - [ ] 5≤10 yr  
  - [ ] >10 yr  
  - [ ] Continuous  

**Sediment Source Association:**

- [ ] Clearcut Unit  
- [ ] Watercourse/Crossing/Drafting Site  
- [ ] Road  
- [ ] Other  

**Unit ID:**  
- Average Slope: ___ %  
- Yarding method:  
  - [ ] Tractor  
  - [ ] Cable  
- Contour ripped?:  
  - [ ] Yes  
  - [ ] No  
- Soil type / Parent material:  
  - Percent veg. cover:  
    - [ ] 0-25%  
    - [ ] 26-50%  
    - [ ] 51-75%  
    - [ ] 76-100%  
- [ ] Road name/L.I.D.:  
- [ ] Crossing name/L.I.D.:  
- [ ] Road name/L.I.D.:  
- Ownership:  
  - [ ] Private  
  - [ ] Public  
- Gated:  
  - [ ] Yes  
  - [ ] No  
- In the WLPZ/ELZ?:  
  - [ ] Yes  
  - [ ] No  
- Road shape:  
  - [ ] Insloped  
  - [ ] Outsloped  
  - [ ] Crowned  
  - [ ] Other  
- Approx. length of road drainage to discharge point: ___ ft.  
- Average road grade: ___ %  
- Functioning (partial failure=failure):  
  - [ ] Yes  
  - [ ] No  
- Approaches:  
  - [ ] Rocked  
  - [ ] Paved  
  - [ ] Native  
  - [ ] Other:  
- Combined road approach length: ___ ft.  
- Adequate drainage:  
  - [ ] Yes  
  - [ ] No  
- In the WLPZ/ELZ?:  
  - [ ] Yes  
  - [ ] No  
- Percent veg. cover:  
  - [ ] 0-25%  
  - [ ] 26-50%  
  - [ ] 51-75%  
  - [ ] 76-100%  
- Soil type / Parent material:  

**General Recommendations:**

Inside area from bank failure in embayment to CANYON CREEK.

**Regulations:**

Were obviously known State Regulations/Laws violated?  
[ ] Yes  
[ ] No  
Provide description of violation:  

**Comments (back of page):**

**Notes:**

   U = Unit; R = Road; X = Crossing; O = Other; a, b, c, etc = Road Segment designator.  
2. CGS datum use NAD 83, Zone 10  
3. Use to provide volume estimate for sites that exceed 10 cy and are determined to be significant to report.
- Within 45' of WLI-E but not associated with a unit.
- Ditch runs on both sides of road for then cross drains to a Class I.
- Estimated volume of sediment delivered combined w/ bank sluffing 550' above road = less than 5 cy potentially continuous.
Road segment entails the bottom of unit $= 463$

Legacy road not used during current operations.

Graded channel, portion of watercourse goes down middle of road then meets up with itself down road.