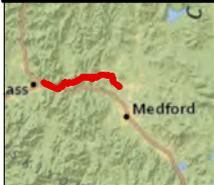
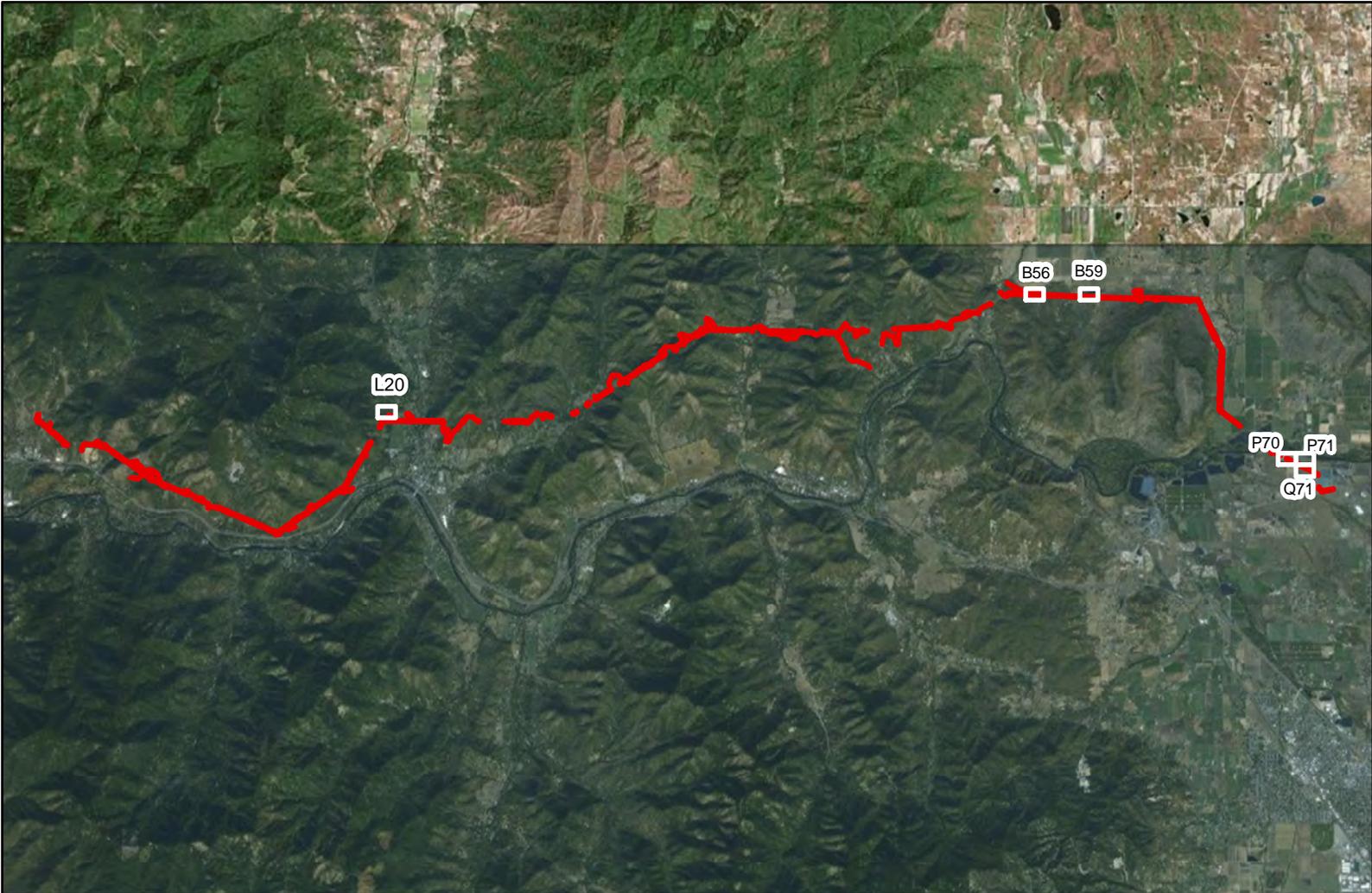


## **Appendix A. Figures Depicting Locations of Wetlands**



**Sam's Valley Project**  
 Jackson and Josephine, OR  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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 **Study Area**

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**Sam's Valley Project**  
 Jackson and Josephine, OR  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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 mi  
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- Study Area
  - Transmission Structure
  - Wetland Boundary
  - Wetland Soil Pit
  - Upland Soil Pit
  - Photo Location/Direction
  - Tax Lots
- L20
- Page 1 of 6



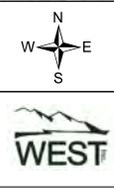
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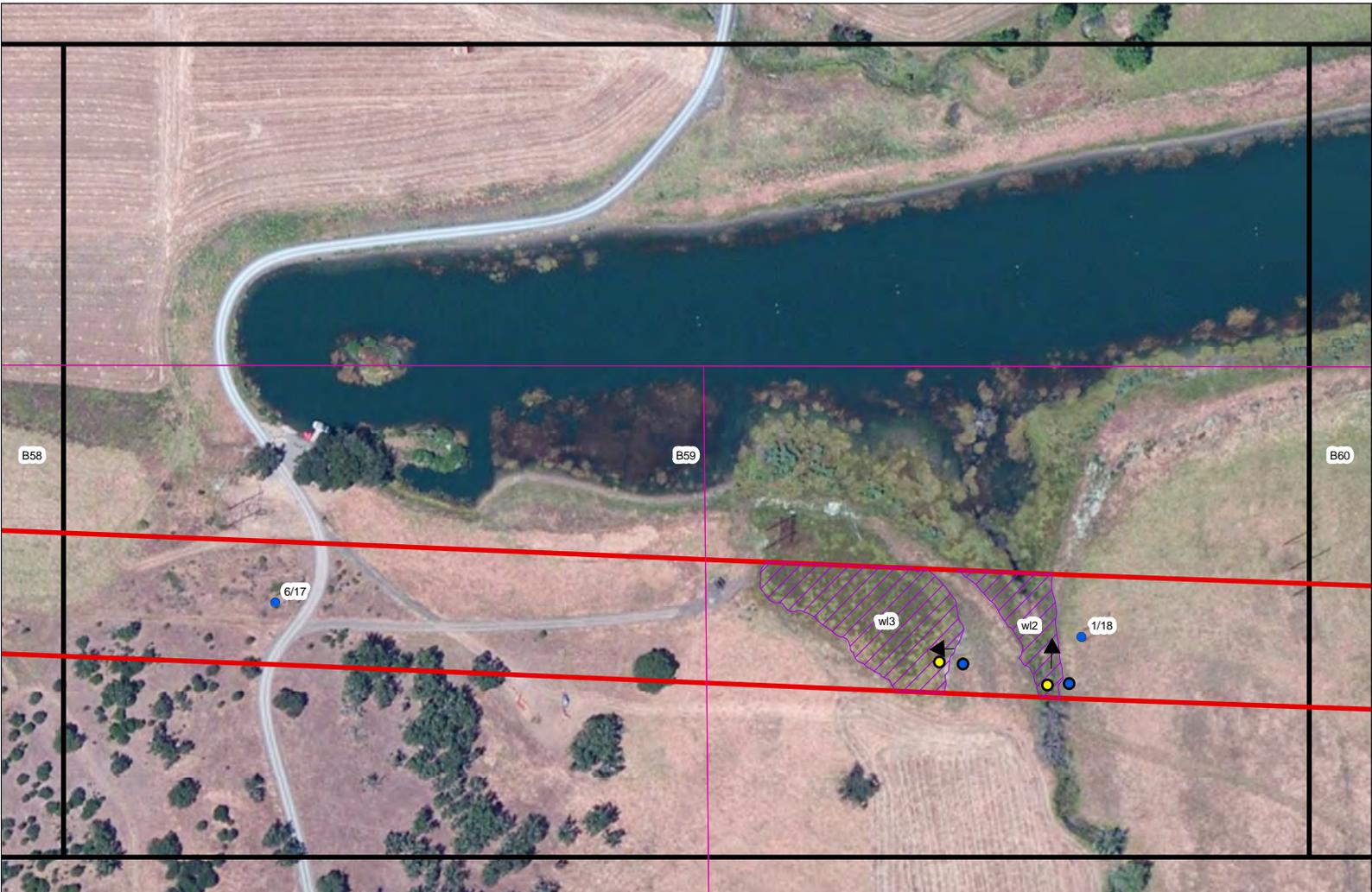


**Sam's Valley Project**  
 Jackson and Josephine, OR  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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- Study Area
- Transmission Structure
- Wetland Boundary
- Wetland Soil Pit
- Upland Soil Pit
- Photo Location/Direction
- Tax Lots

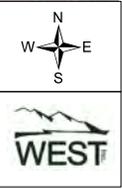


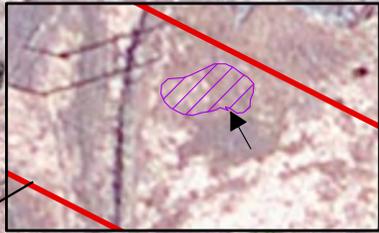


**Sam's Valley Project**  
 Jackson and Josephine, OR  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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- Study Area
  - Transmission Structure
  - Wetland Boundary
  - Wetland Soil Pit
  - Upland Soil Pit
  - Photo Location/Direction
  - Tax Lots
- B59  
Page 3 of 6

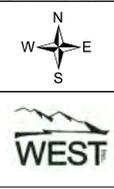




**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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- Study Area
- Transmission Structure
- Wetland Boundary
- Wetland Soil Pit
- Upland Soil Pit
- Photo Location/Direction
- Tax Lots

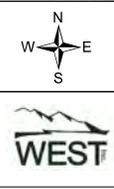


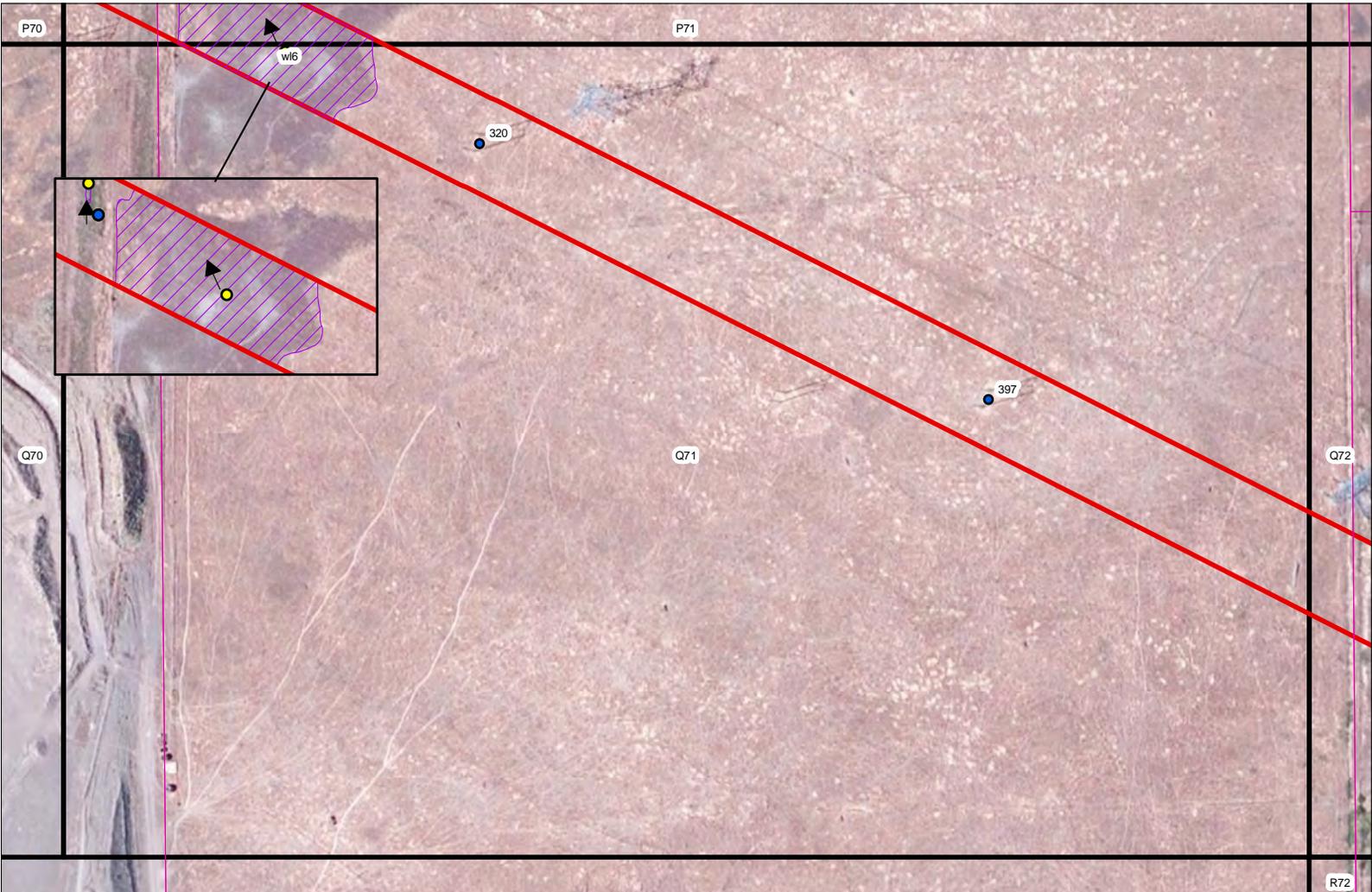


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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- Study Area
  - Transmission Structure
  - Wetland Boundary
  - Wetland Soil Pit
  - Upland Soil Pit
  - Photo Location/Direction
  - Tax Lots
- P71  
 Page 5 of 6





**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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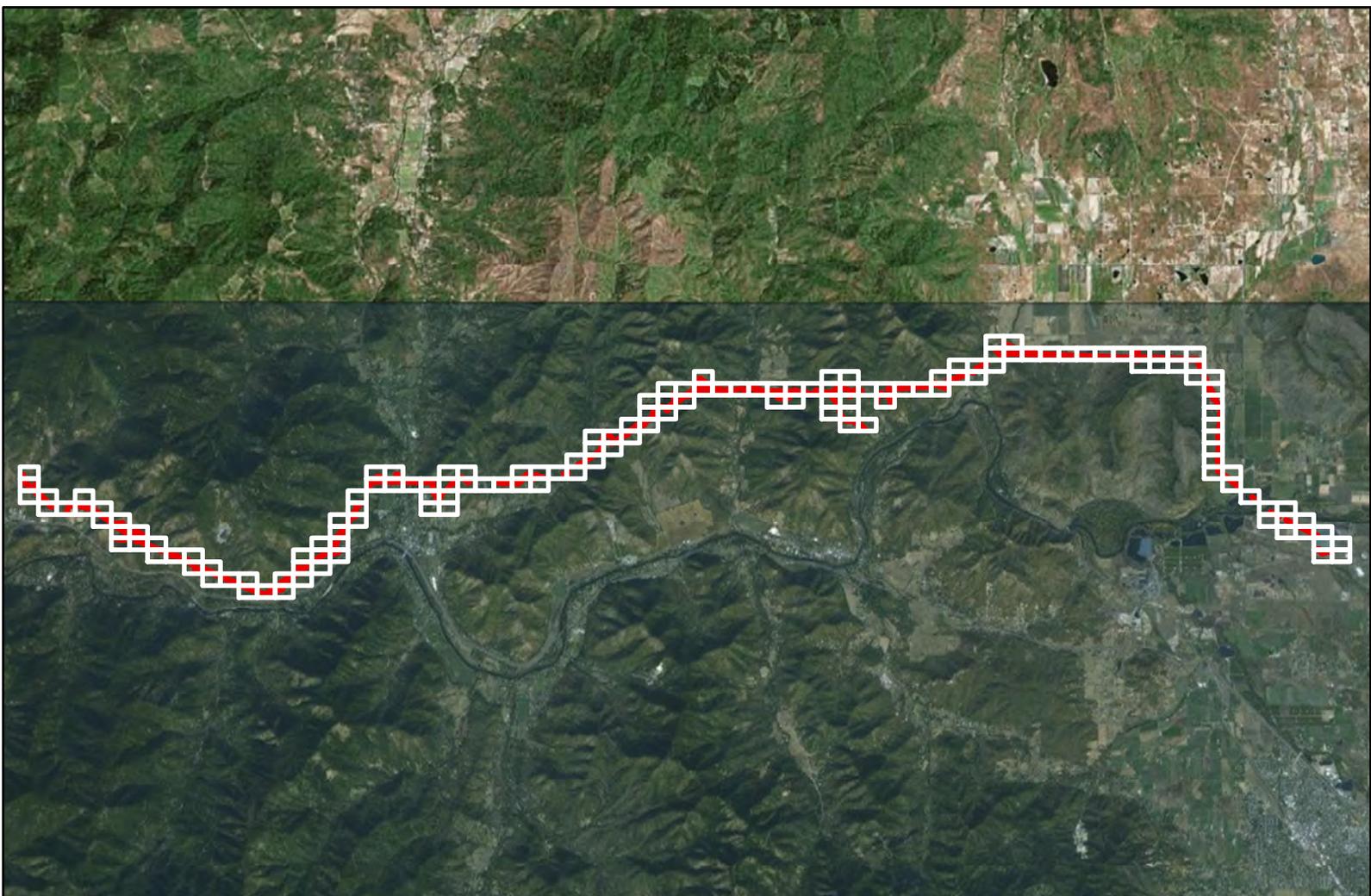
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  -  Transmission Structure
  -  Wetland Boundary
  -  Wetland Soil Pit
  -  Upland Soil Pit
  -  Photo Location/Direction
  -  Tax Lots
- Q71
- Page 6 of 6



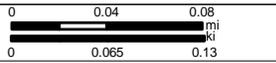




## **Appendix B. Figures Depicting Locations of Waterbodies**



Sam's Valley Project  
Jackson and Josphine, OR  
Data Source: World Imagery  
Coordinate System: NAD 83 UTM Zone 10  
Date: 12/27/2017  
Author: Troy Rintz



 Study Area



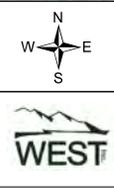


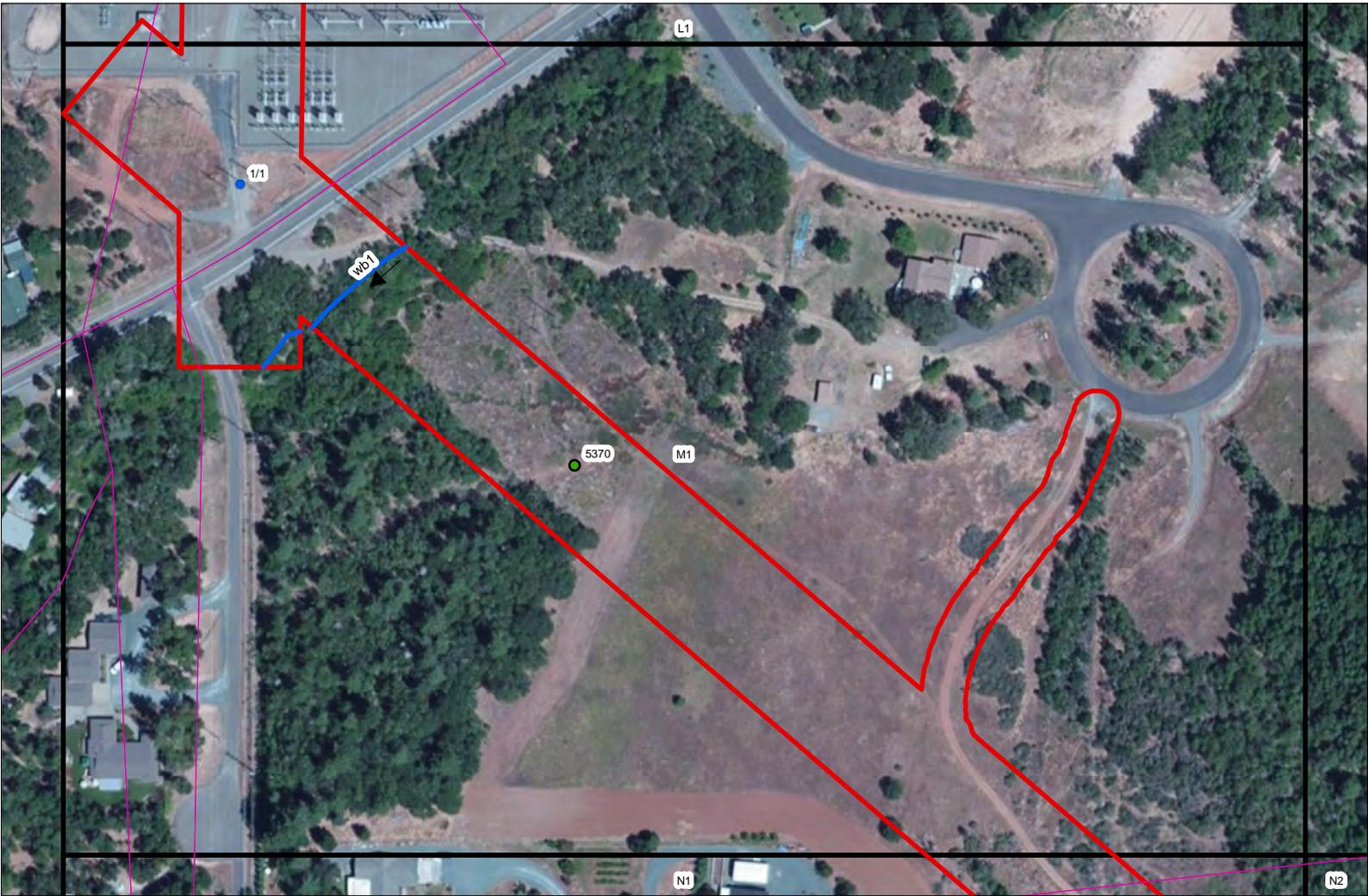
**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
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 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

L1  
Page 1 of 154





**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

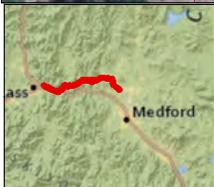
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots



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**Sam's Valley Project**  
**Jackson and Josphine, OR**

Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

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 Page 3 of 154



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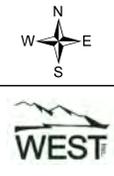


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 Date: 12/27/2017  
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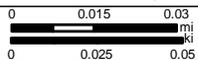
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-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

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 Page 4 of 154



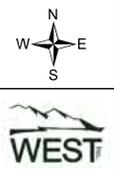


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz



-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

O2  
Page 5 of 154





**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

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Page 6 of 154




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**Sam's Valley Project**  
**Jackson and Josphine, OR**

Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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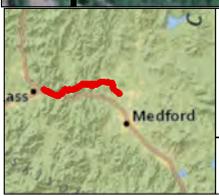
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-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

O4  
 Page 7 of 154




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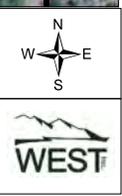


**Sam's Valley Project**  
**Jackson and Josphine, OR**

Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
  -  Transmission Structure
  -  Waters of the U.S.
  -  Non-Waters of the U.S.
  -  Photo Location/Direction
  -  Tax Lots
- N4  
Page 8 of 154





**Sam's Valley Project**  
**Jackson and Josephine, OR**  
 Data Source: World Imagery  
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 Date: 12/27/2017  
 Author: Troy Rintz

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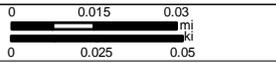
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-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

O5  
Page 9 of 154






**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz



-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

P5  
Page 10 of 154

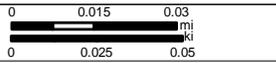






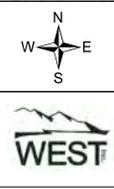


**Sam's Valley Project**  
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 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz



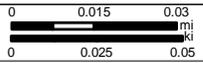
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

P6  
 Page 11 of 154





**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz



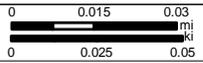
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- Transmission Structure
- Waters of the U.S.
- Non-Waters of the U.S.
- Photo Location/Direction
- Tax Lots

Q6  
 Page 12 of 154



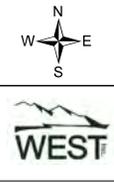


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz



-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

R6  
Page 13 of 154





**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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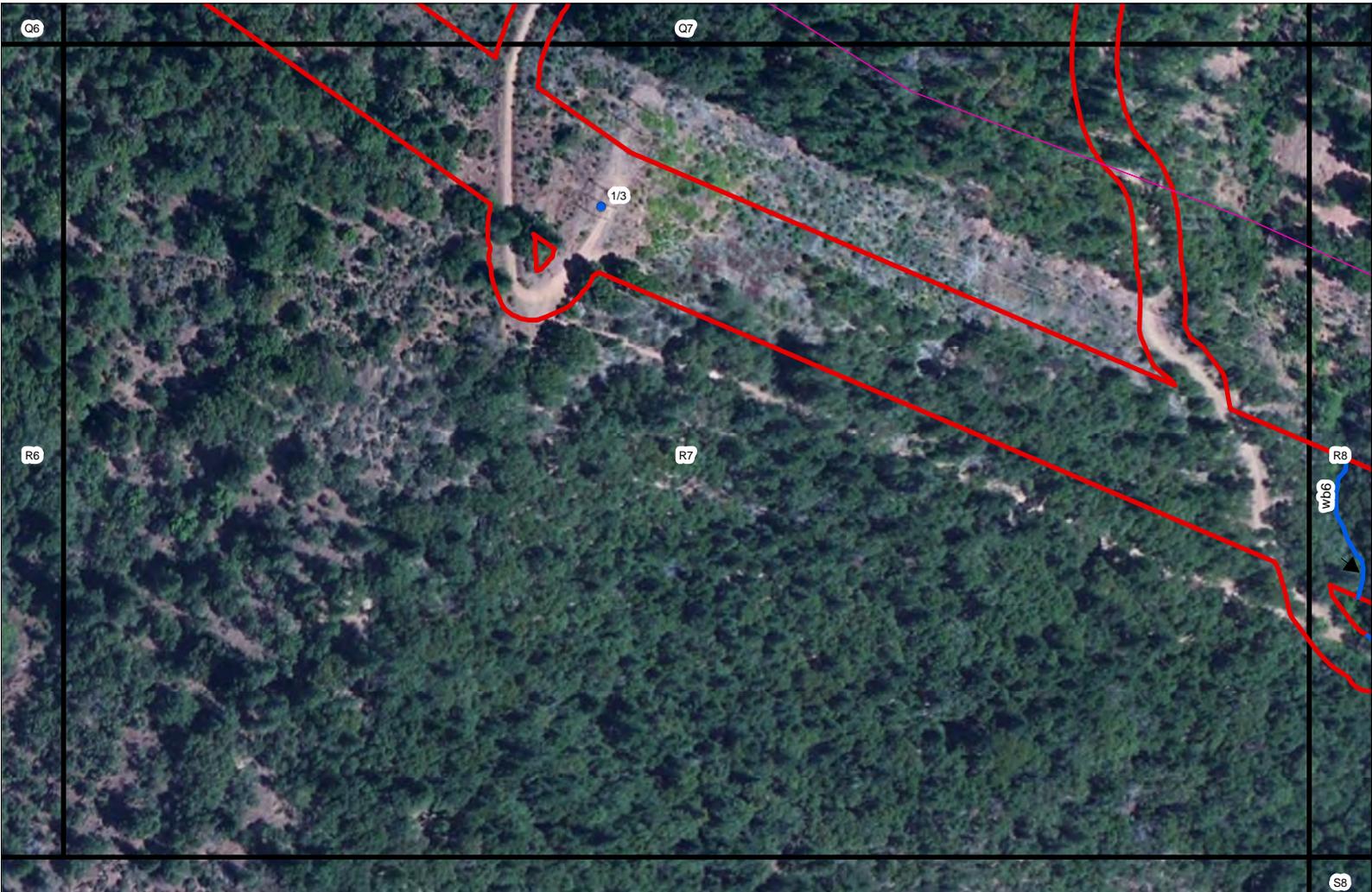
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-  Transmission Structure
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-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

Q7  
 Page 14 of 154









**Sam's Valley Project**  
**Jackson and Josephine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots





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**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

R8  
Page 16 of 154



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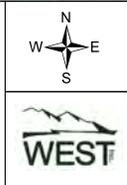


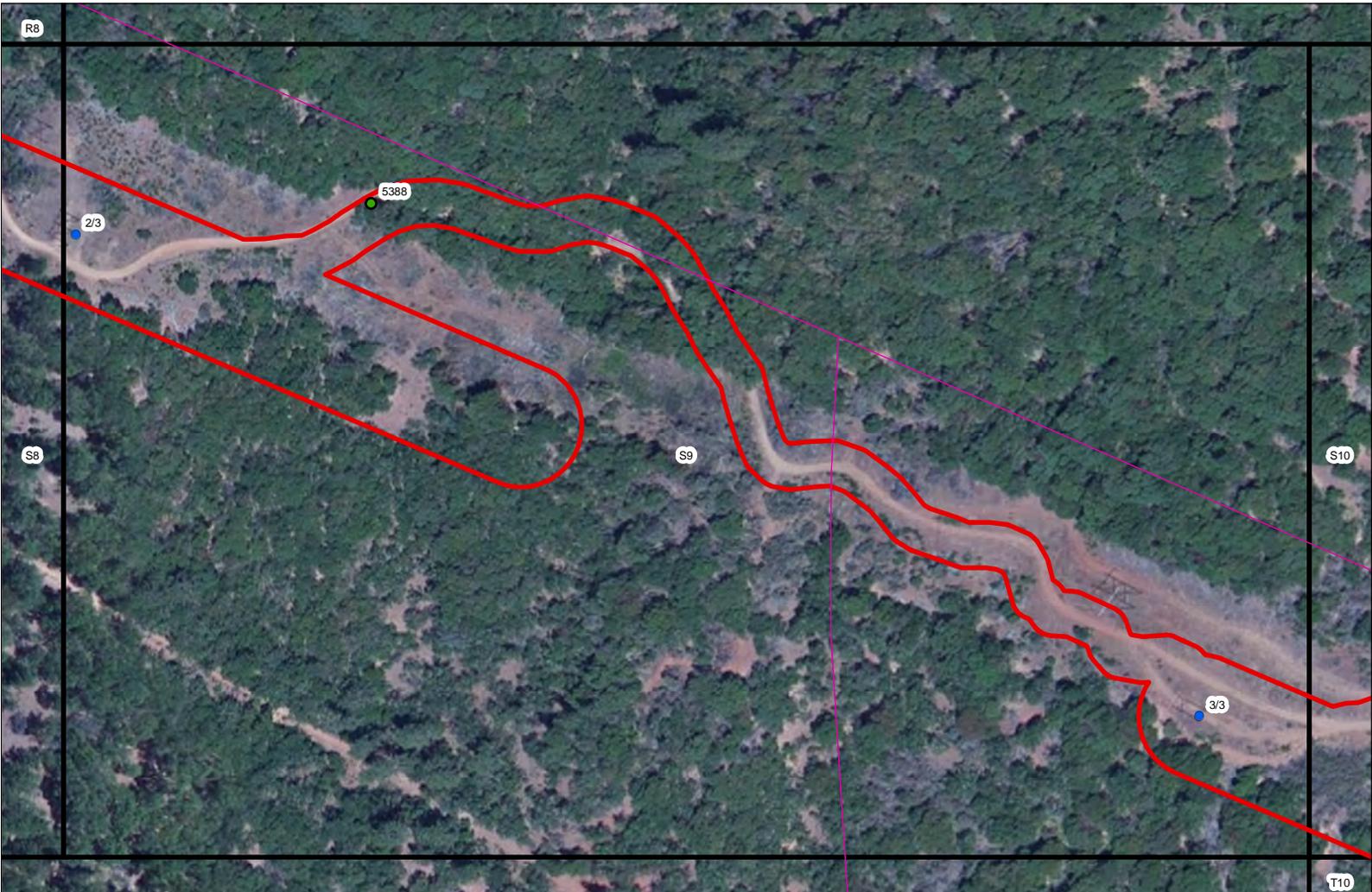
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

S8  
Page 17 of 154





**Sam's Valley Project**  
**Jackson and Josephine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

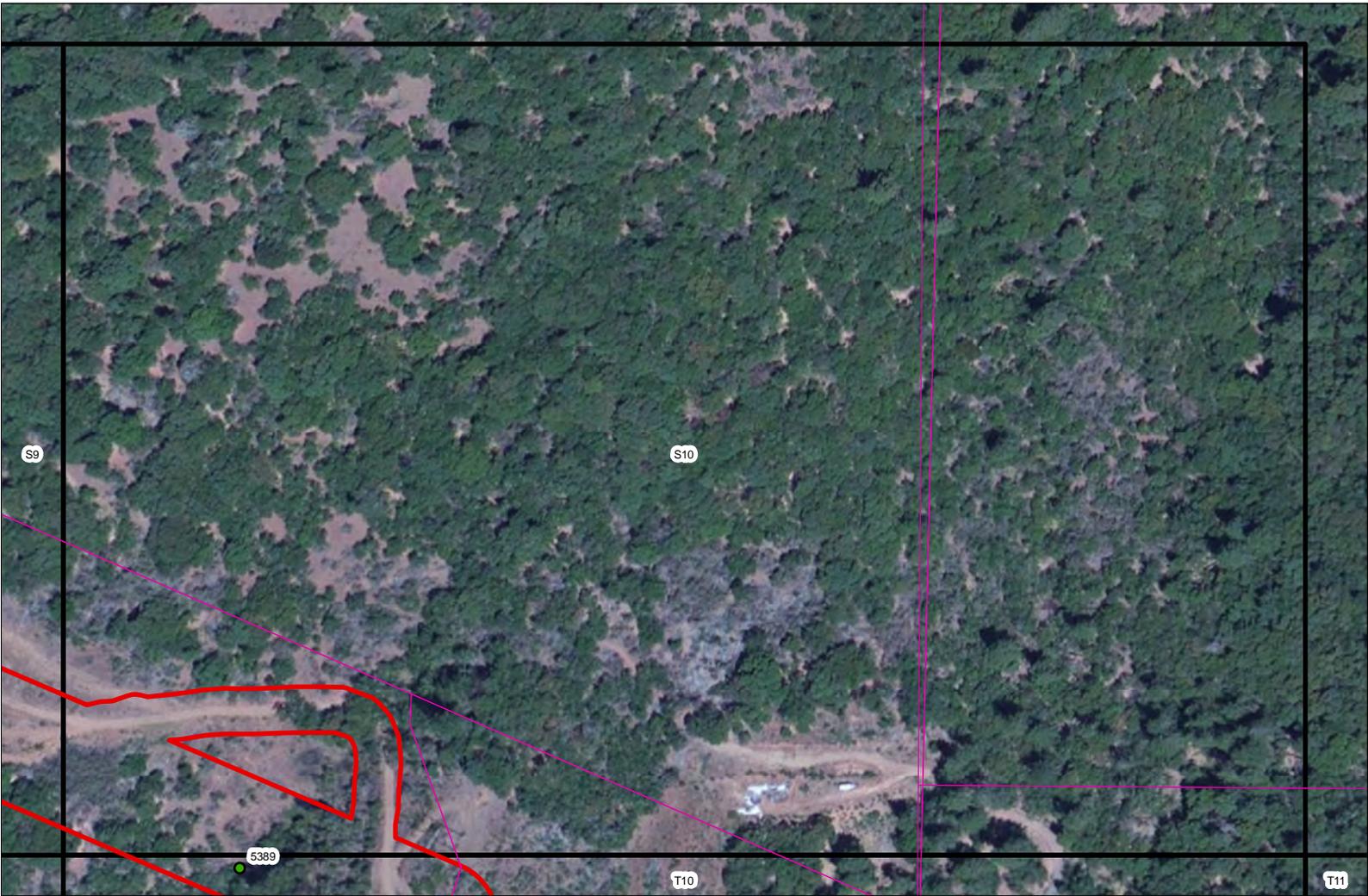
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

S9  
 Page 18 of 154







**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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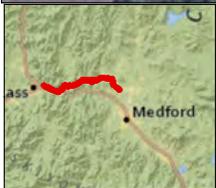
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-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

S10  
 Page 19 of 154




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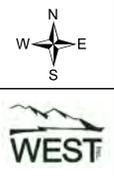


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz



-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

T10  
 Page 20 of 154





**Sam's Valley Project**  
**Jackson and Josephine, OR**  
 Data Source: World Imagery  
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 Date: 12/27/2017  
 Author: Troy Rintz

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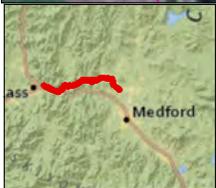
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

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Page 21 of 154



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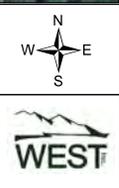
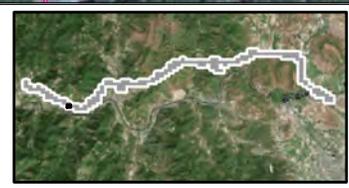


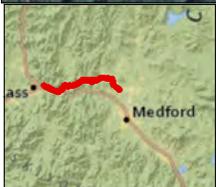
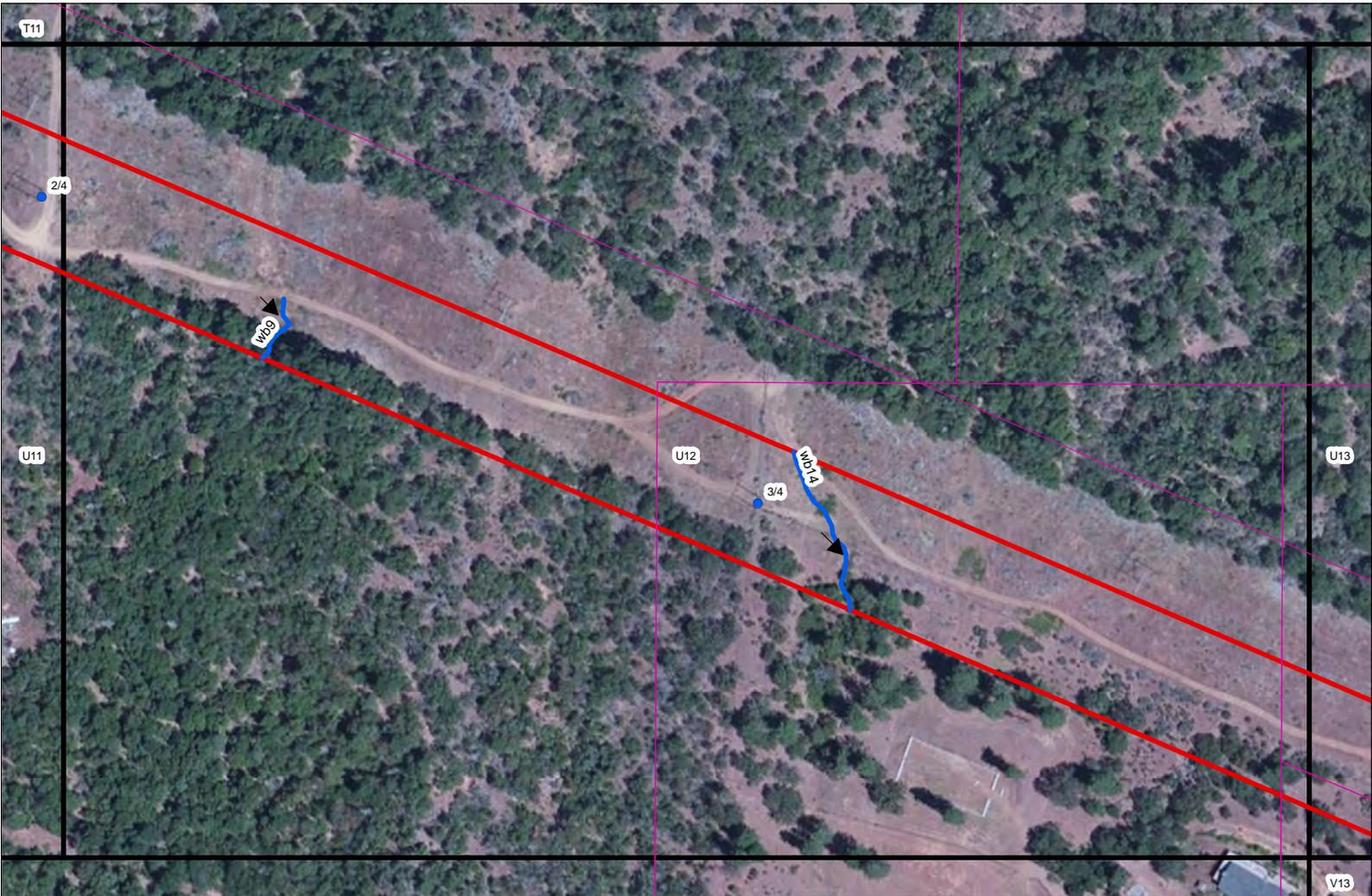
**Sam's Valley Project**  
**Jackson and Josephine, OR**  
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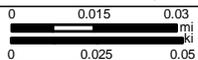
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

U11  
Page 22 of 154





**Sam's Valley Project**  
**Jackson and Josephine, OR**  
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 Date: 12/27/2017  
 Author: Troy Rintz



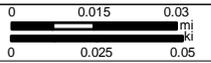
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-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

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 Page 23 of 154





**Sam's Valley Project**  
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 Date: 12/27/2017  
 Author: Troy Rintz



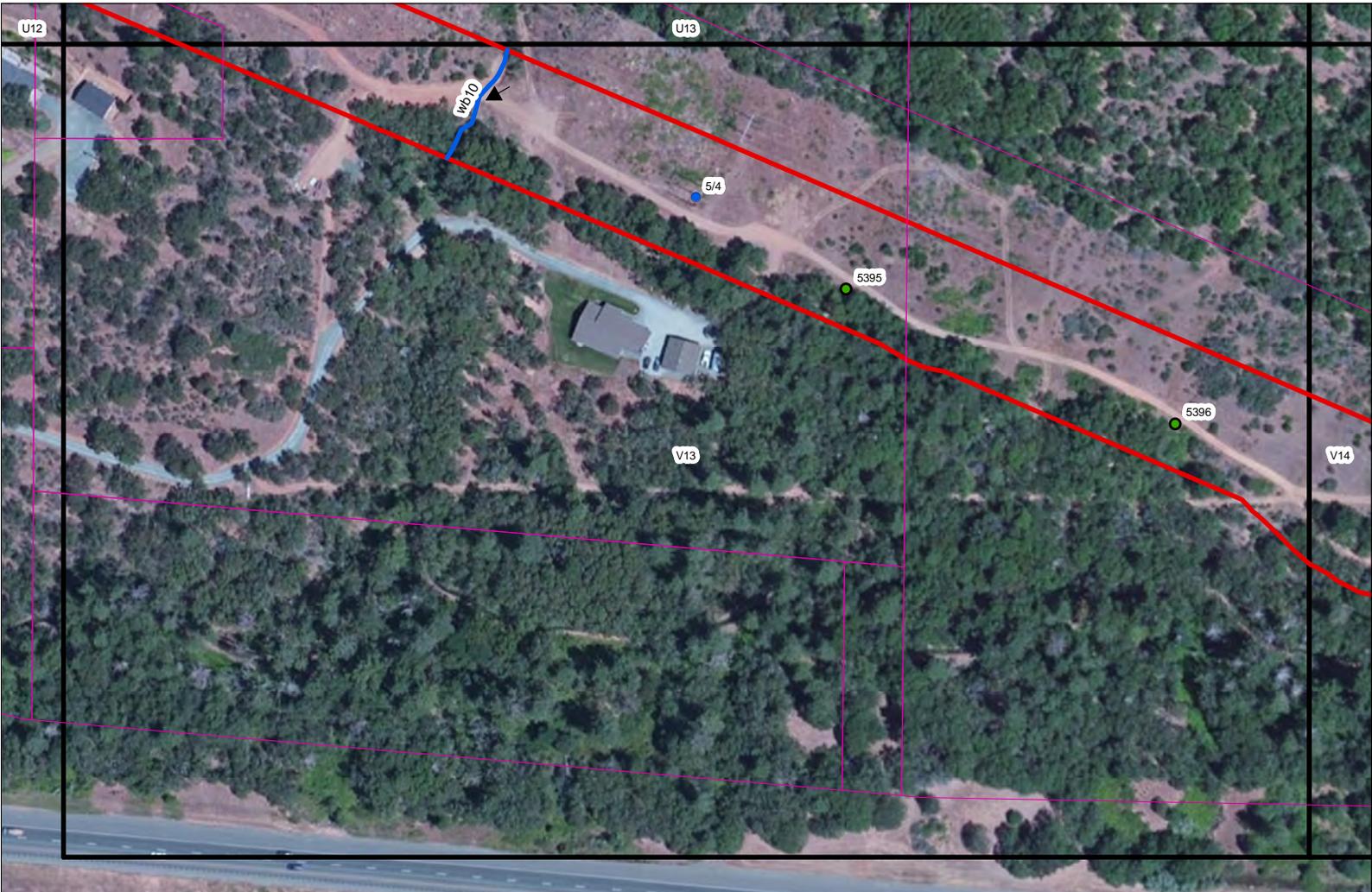
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

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 Page 24 of 154



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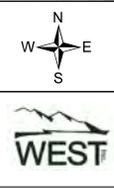


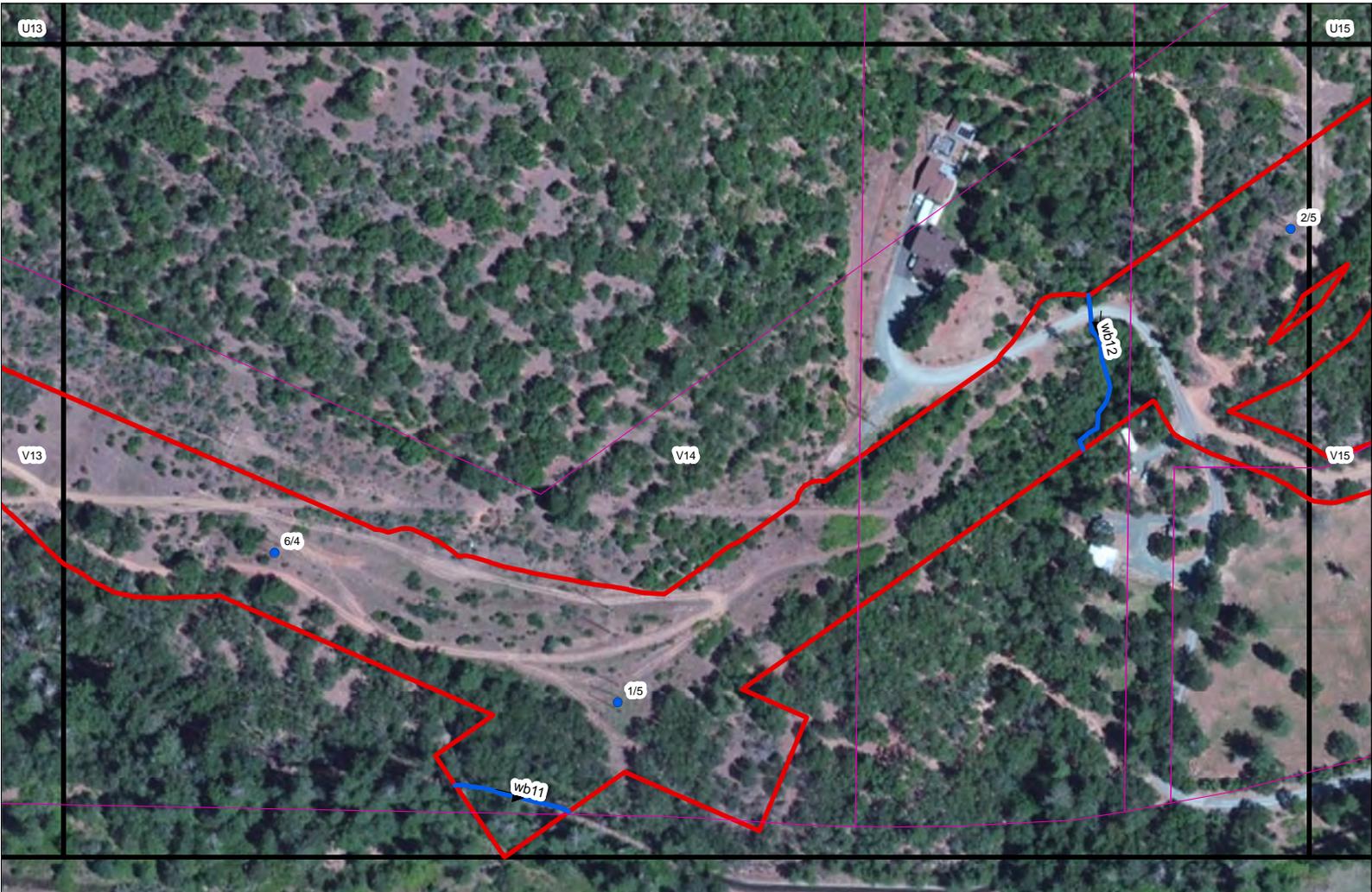
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

V13  
Page 25 of 154





**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

V14  
Page 26 of 154







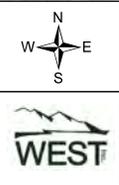


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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 Author: Troy Rintz



-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

V15  
 Page 27 of 154





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 Coordinate System: NAD 83 UTM Zone 10  
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 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

U15  
 Page 28 of 154




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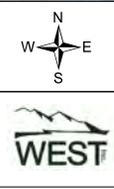


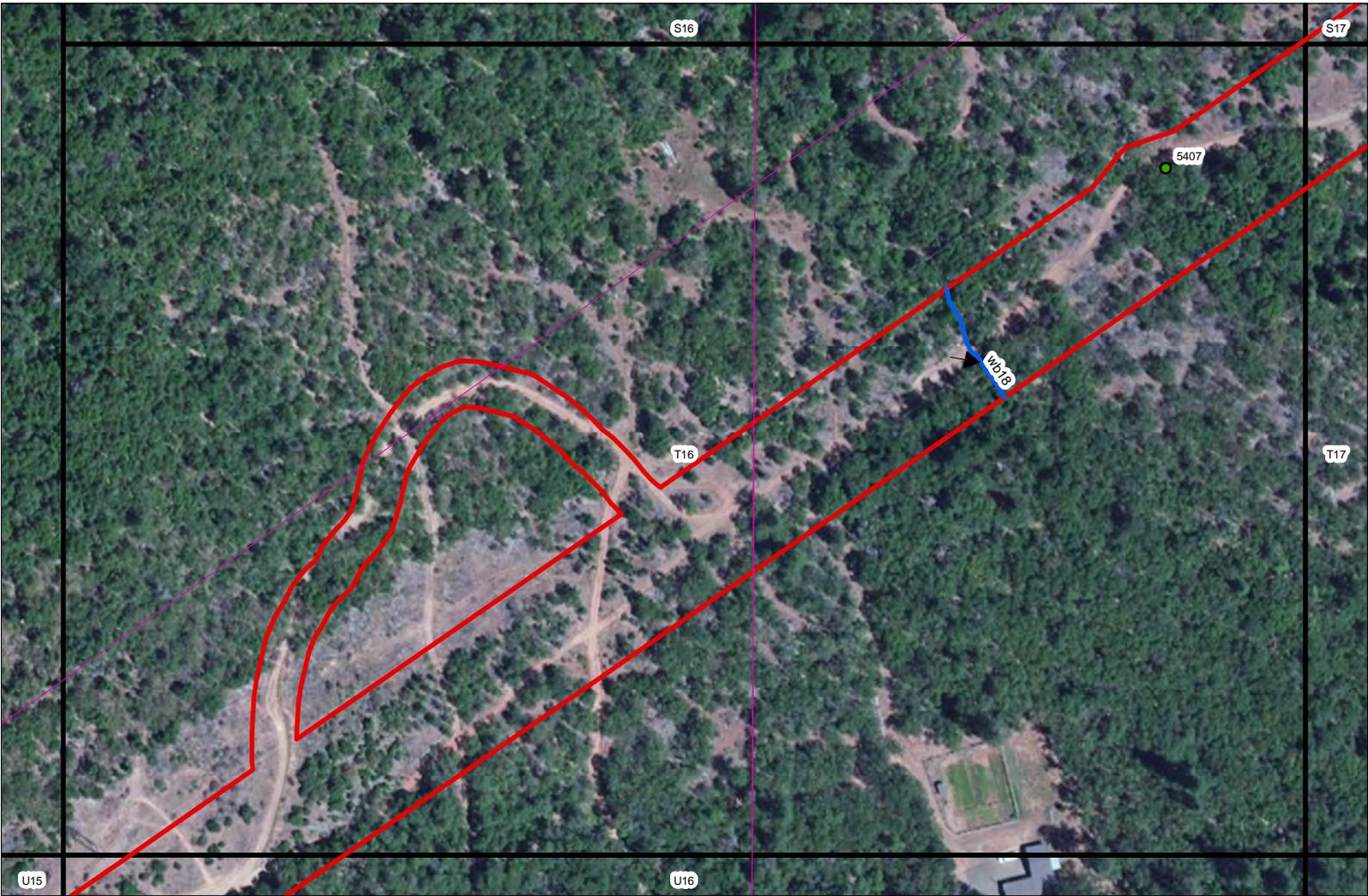
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**Jackson and Josphine, OR**  
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 Date: 12/27/2017  
 Author: Troy Rintz

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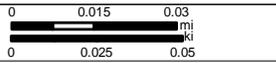
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

U16  
Page 29 of 154



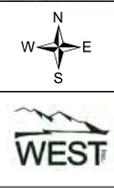


**Sam's Valley Project**  
**Jackson and Josephine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz



-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

T16  
 Page 30 of 154





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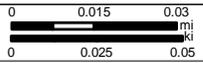
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 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

S16  
 Page 31 of 154









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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

S17  
Page 33 of 154







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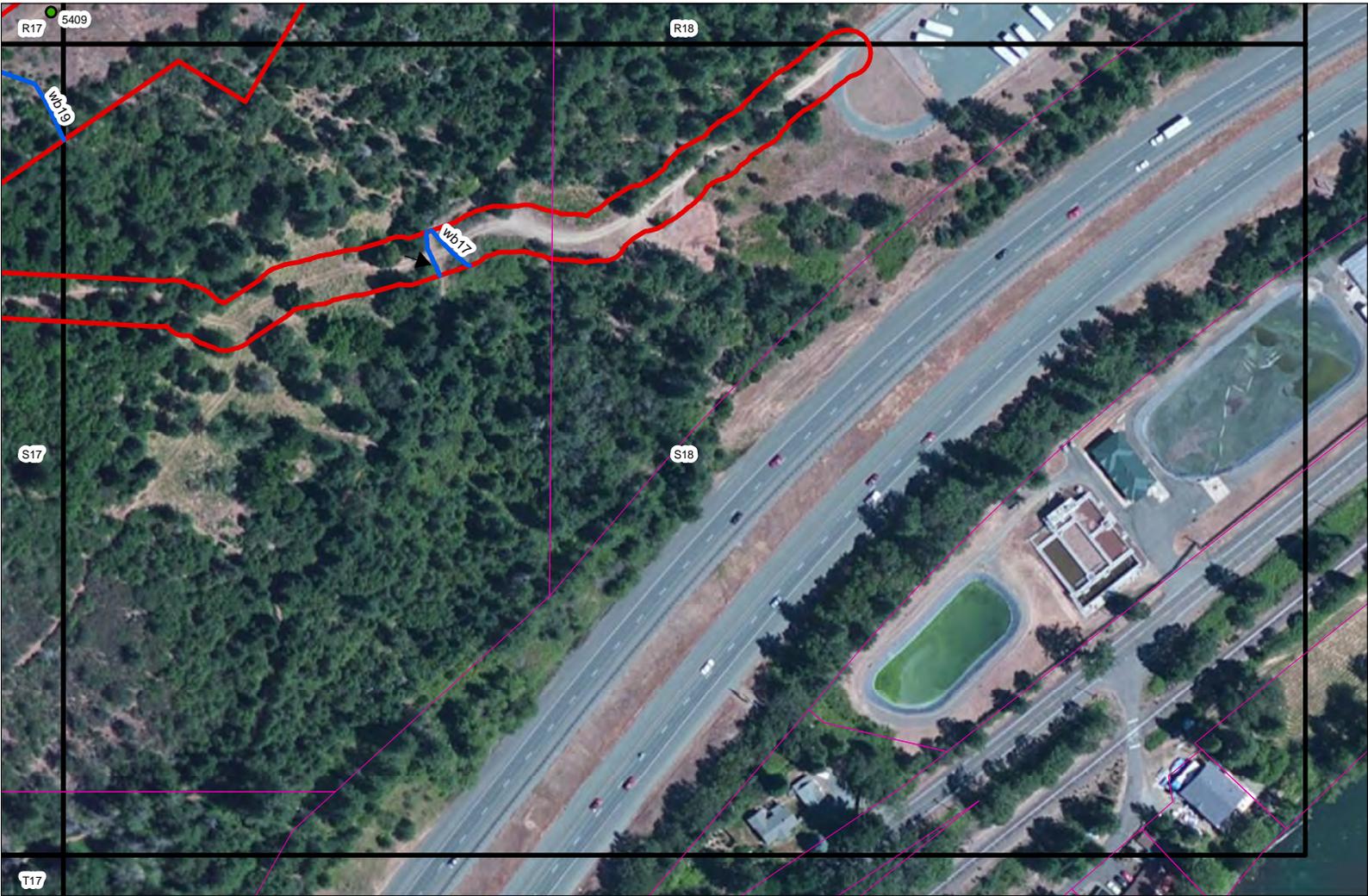
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

R17  
Page 34 of 154



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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

S18  
 Page 35 of 154



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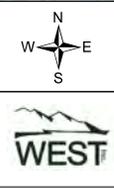
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**Jackson and Josphine, OR**

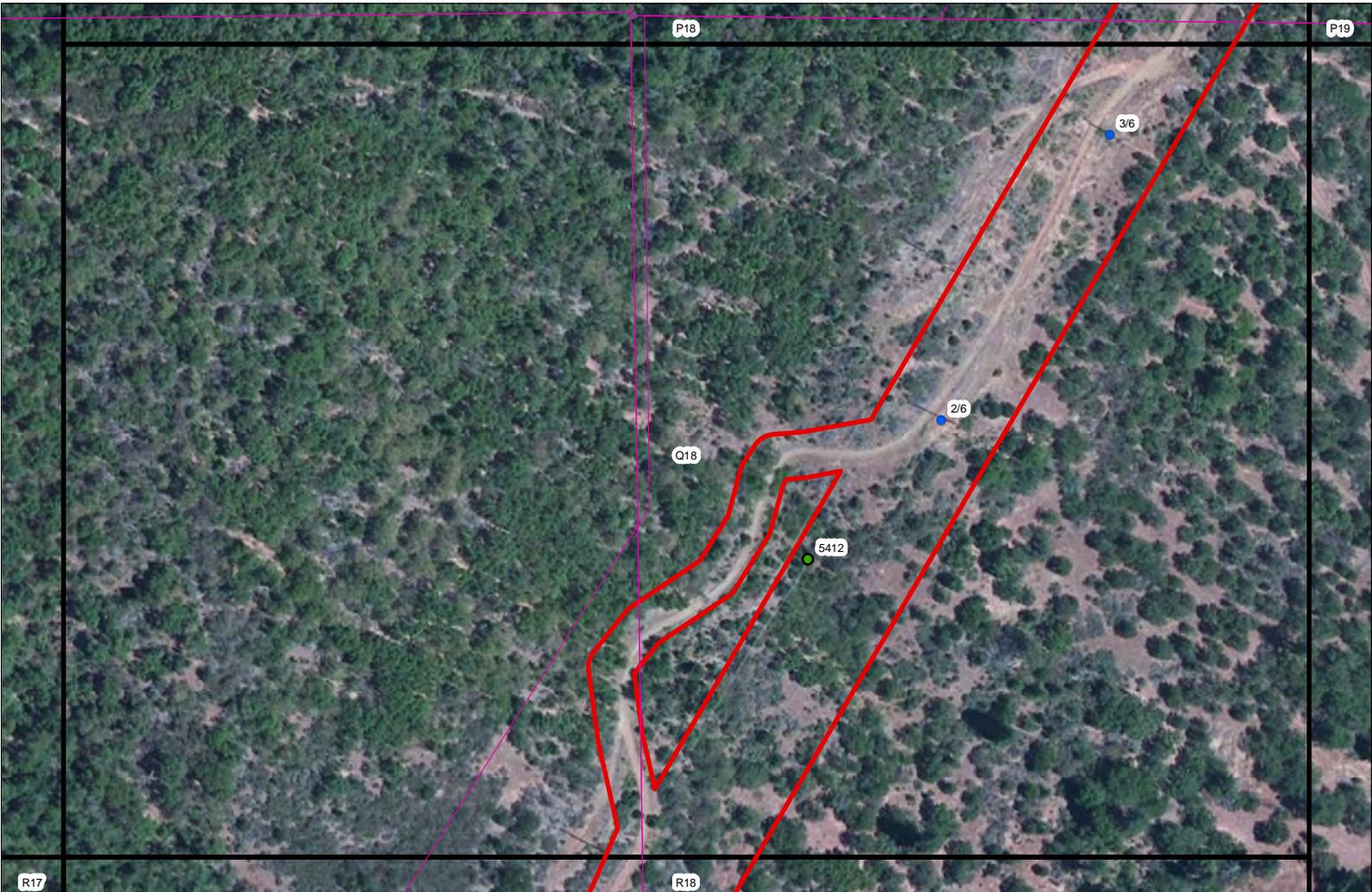
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

R18  
 Page 36 of 154





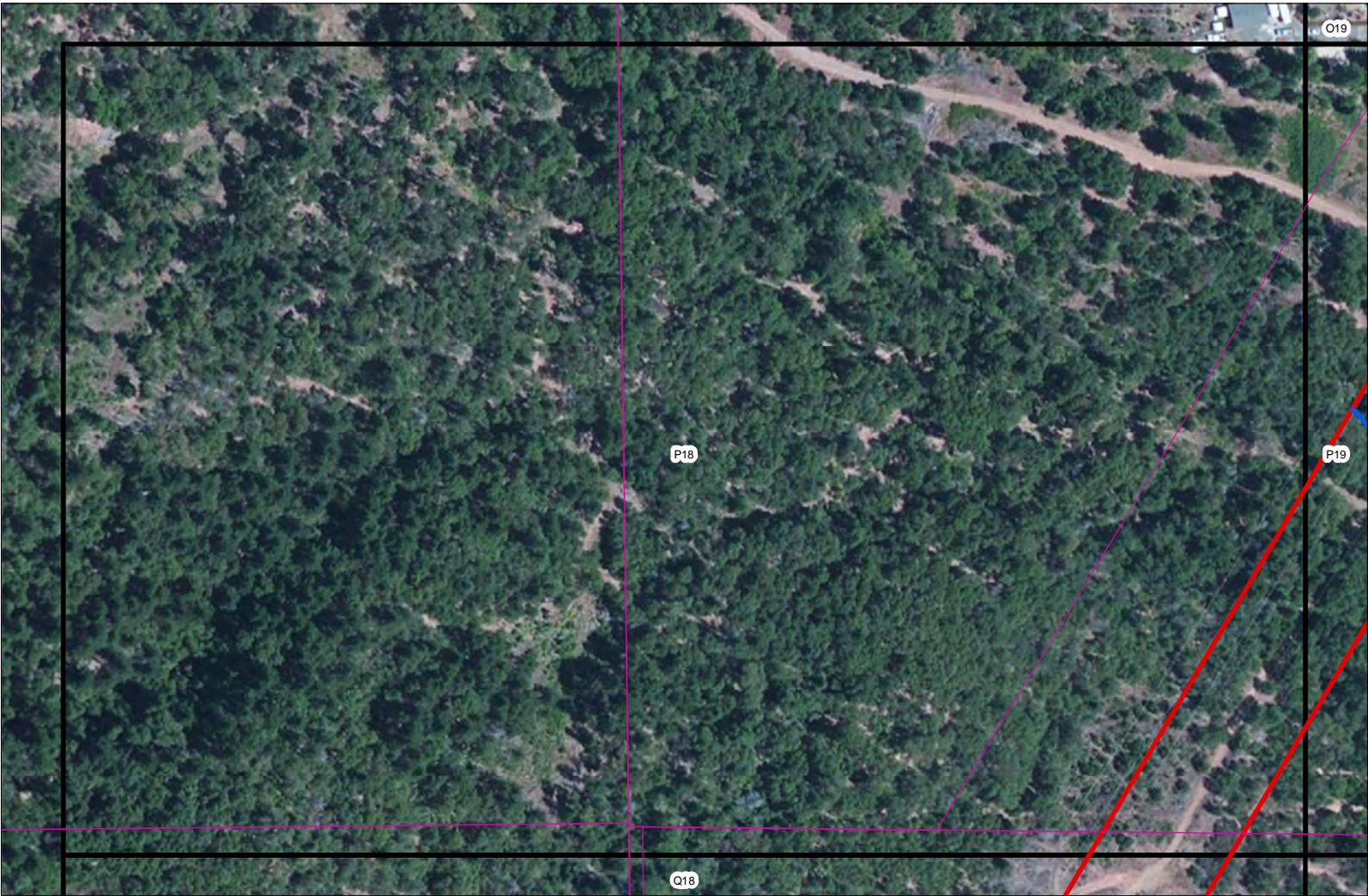
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

Q18  
 Page 37 of 154



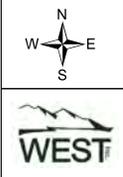


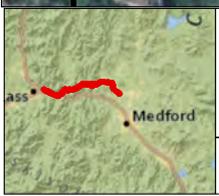
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

P18  
 Page 38 of 154





**Sam's Valley Project**  
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Data Source: World Imagery  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

P19  
 Page 39 of 154







**Sam's Valley Project**  
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 Data Source: World Imagery  
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 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

O19  
Page 40 of 154



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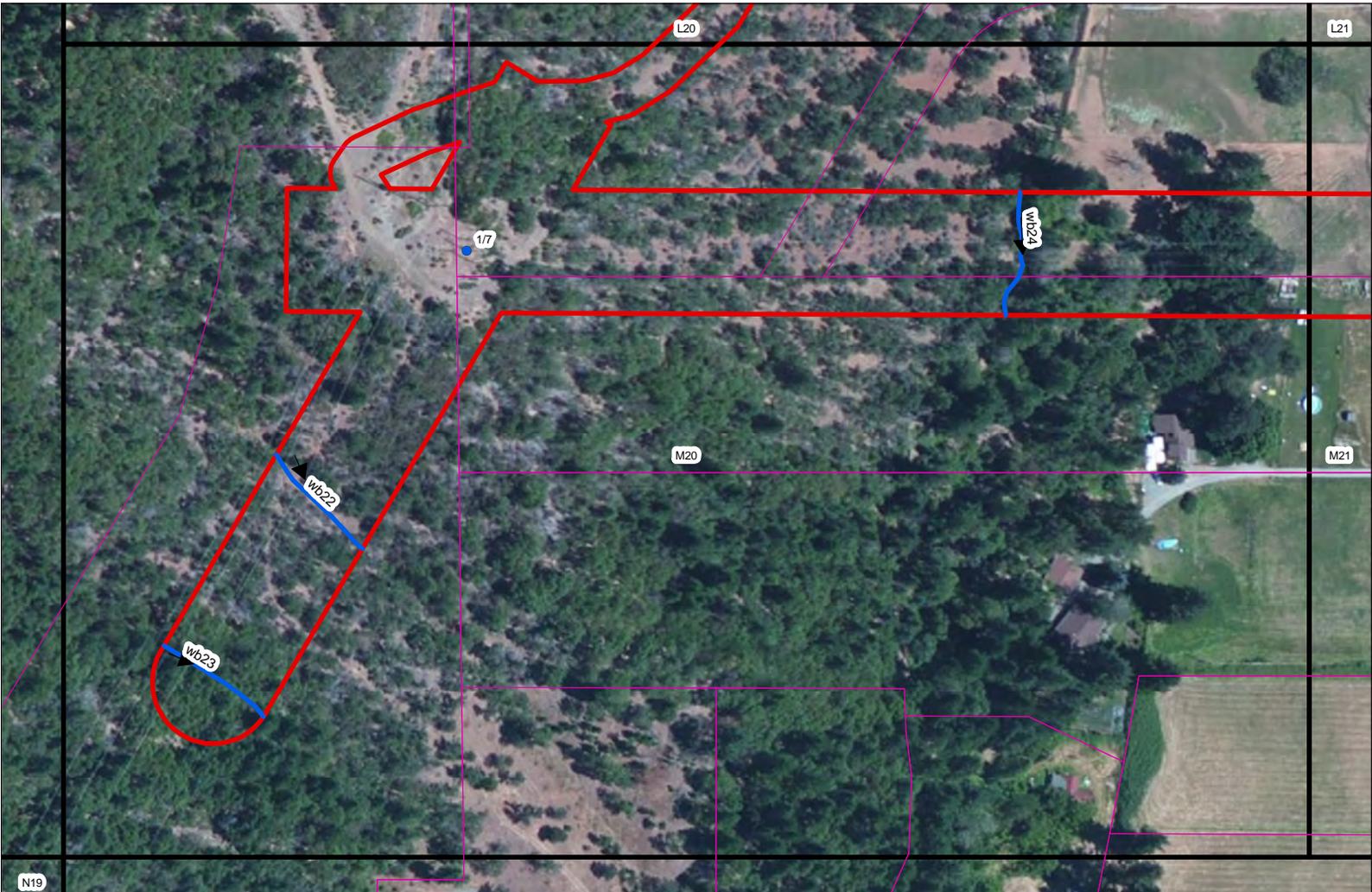
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**Jackson and Josphine, OR**  
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 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

N19  
 Page 41 of 154





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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

M20  
 Page 42 of 154







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 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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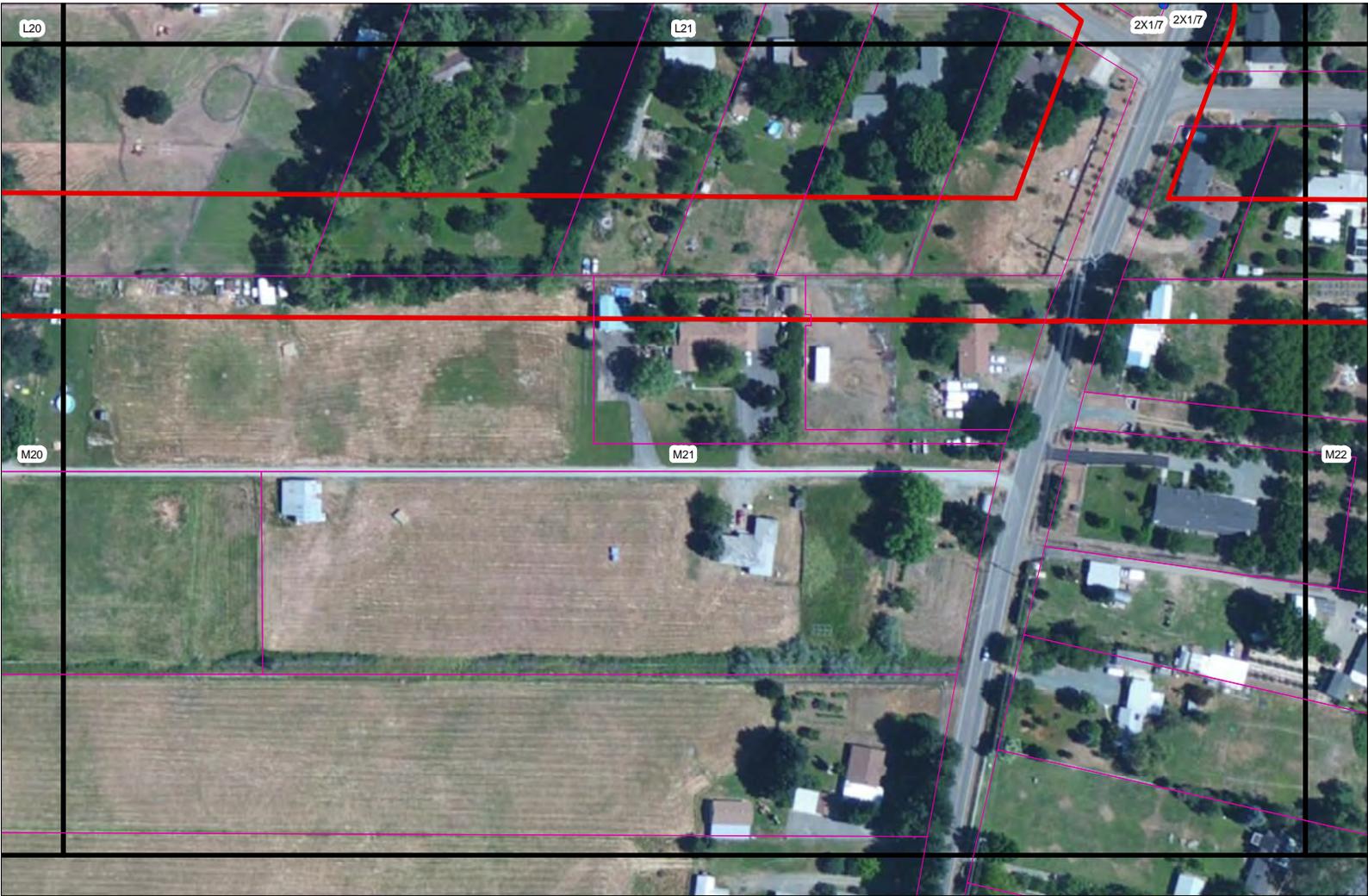
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

L20  
 Page 43 of 154









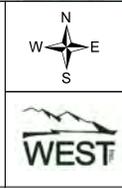
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**Jackson and Josphine, OR**

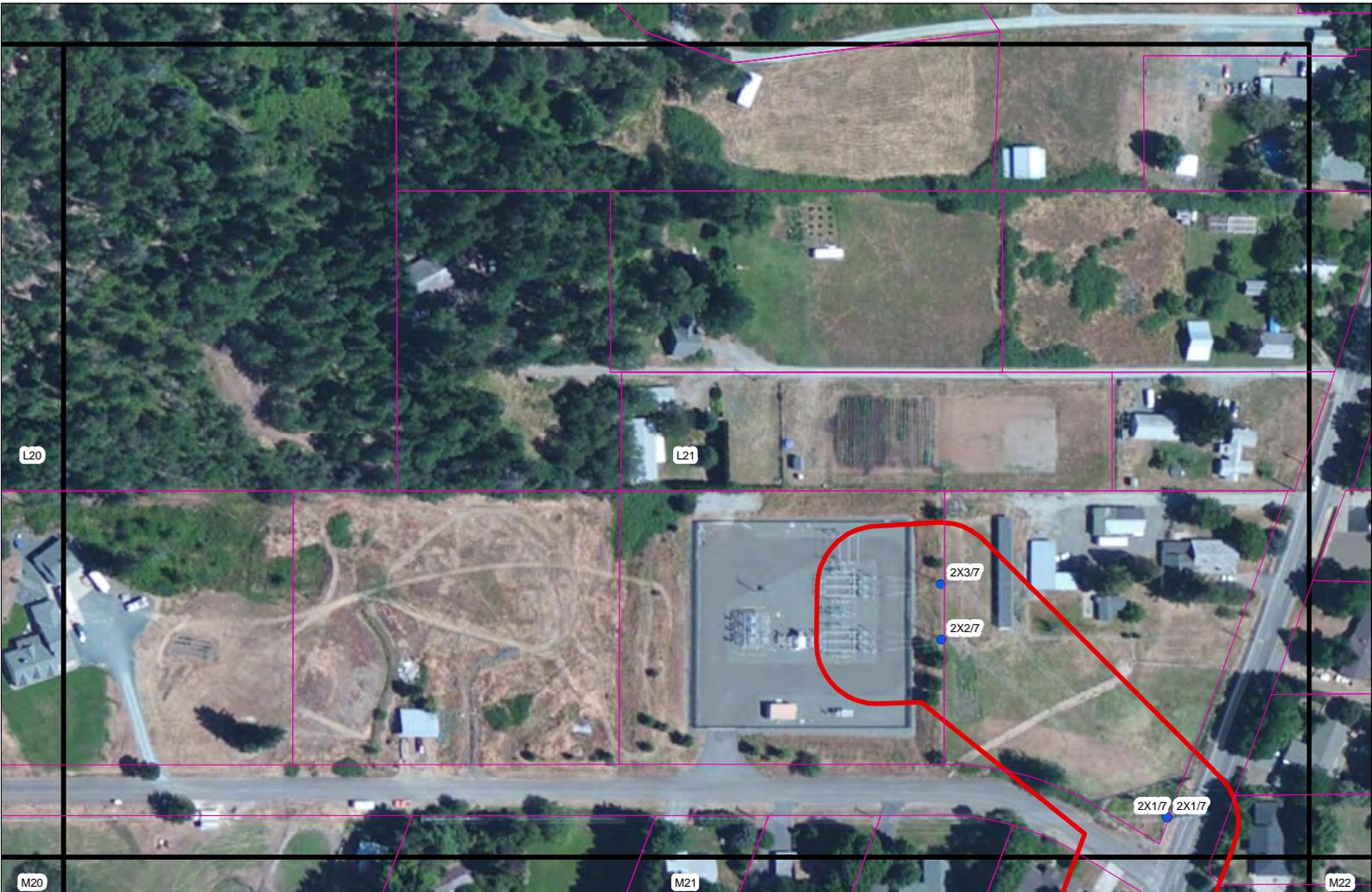
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

M21  
 Page 44 of 154





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**Jackson and Josphine, OR**

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 Coordinate System: NAD 83 UTM Zone 10  
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 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

L21  
 Page 45 of 154



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**Jackson and Josphine, OR**

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 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

M22  
 Page 46 of 154





L24



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 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

M23  
 Page 47 of 154



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**Sam's Valley Project**  
**Jackson and Josphine, OR**

Data Source: World Imagery  
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 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

N23  
 Page 48 of 154



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**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

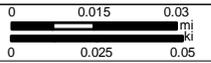
O23  
 Page 49 of 154





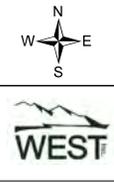


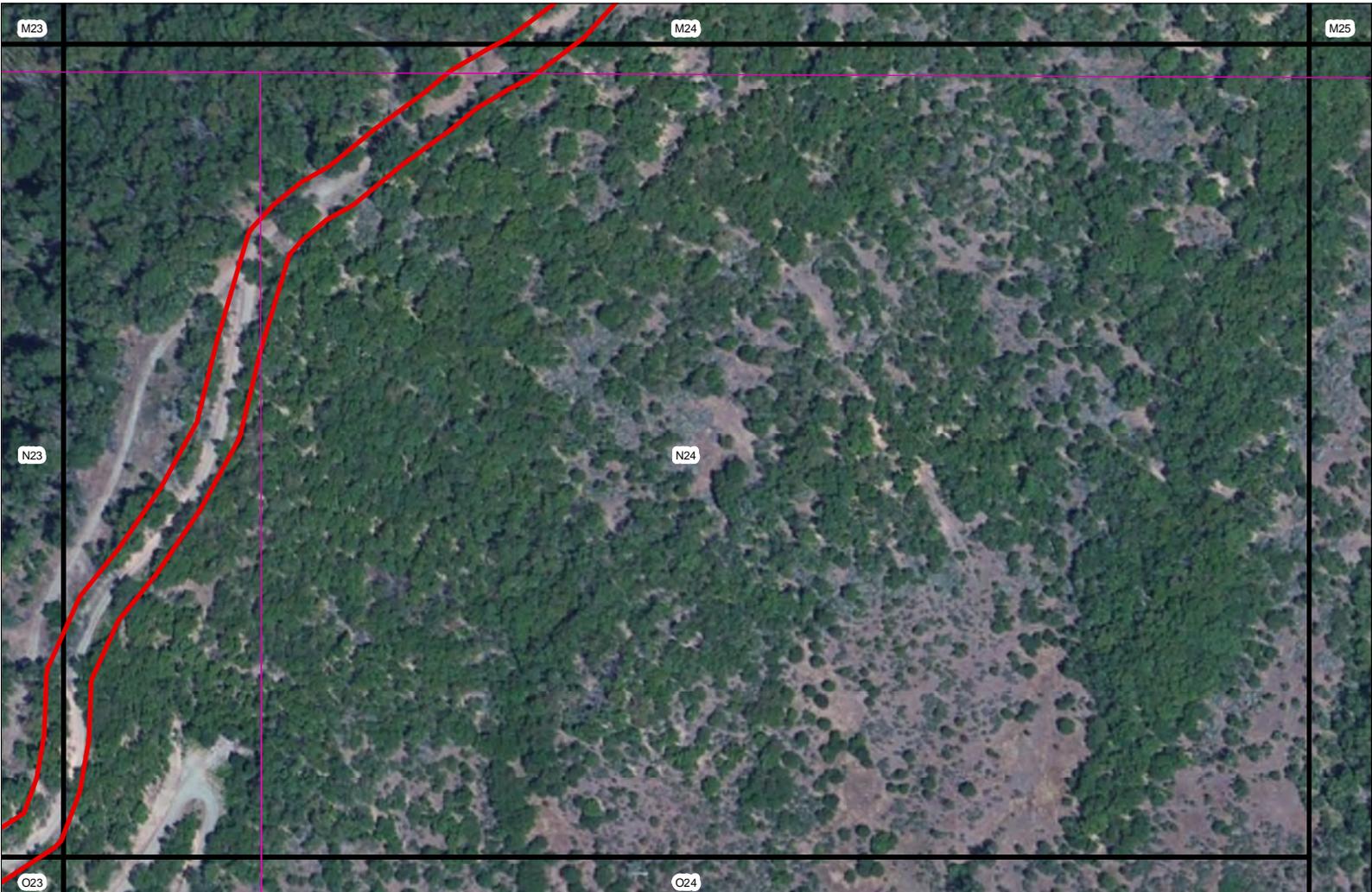
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

O24  
 Page 50 of 154





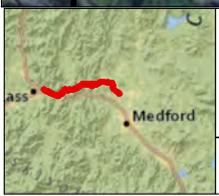
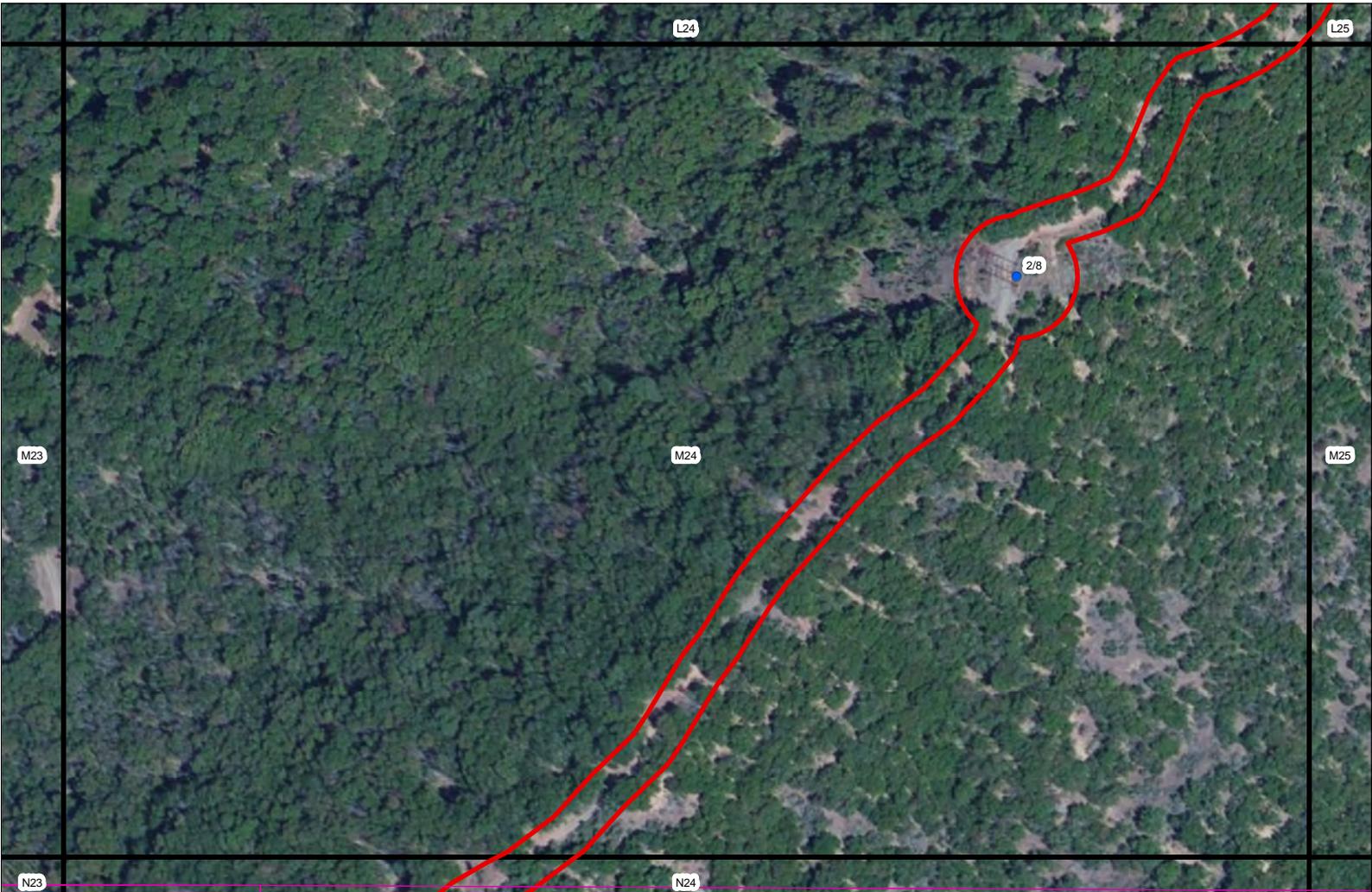
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**Jackson and Josphine, OR**  
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- Study Area
- Transmission Structure
- Waters of the U.S.
- Non-Waters of the U.S.
- Photo Location/Direction
- Tax Lots

N24  
Page 51 of 154

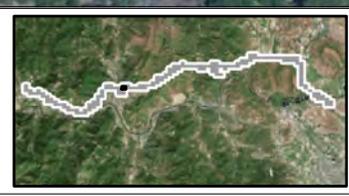




**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
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-  Study Area
  -  Transmission Structure
  -  Waters of the U.S.
  -  Non-Waters of the U.S.
  -  Photo Location/Direction
  -  Tax Lots
- M24
- Page 52 of 154

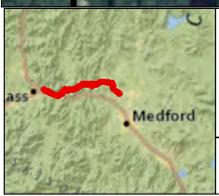




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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

L24  
 Page 53 of 154







**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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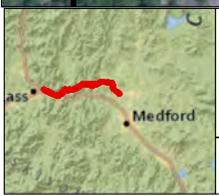
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

L25  
Page 54 of 154



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**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

M25  
Page 55 of 154





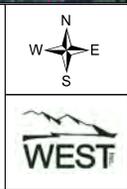
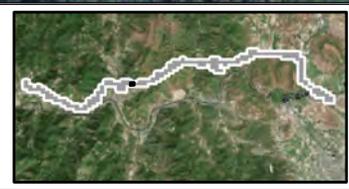


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

M26  
Page 56 of 154



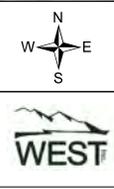


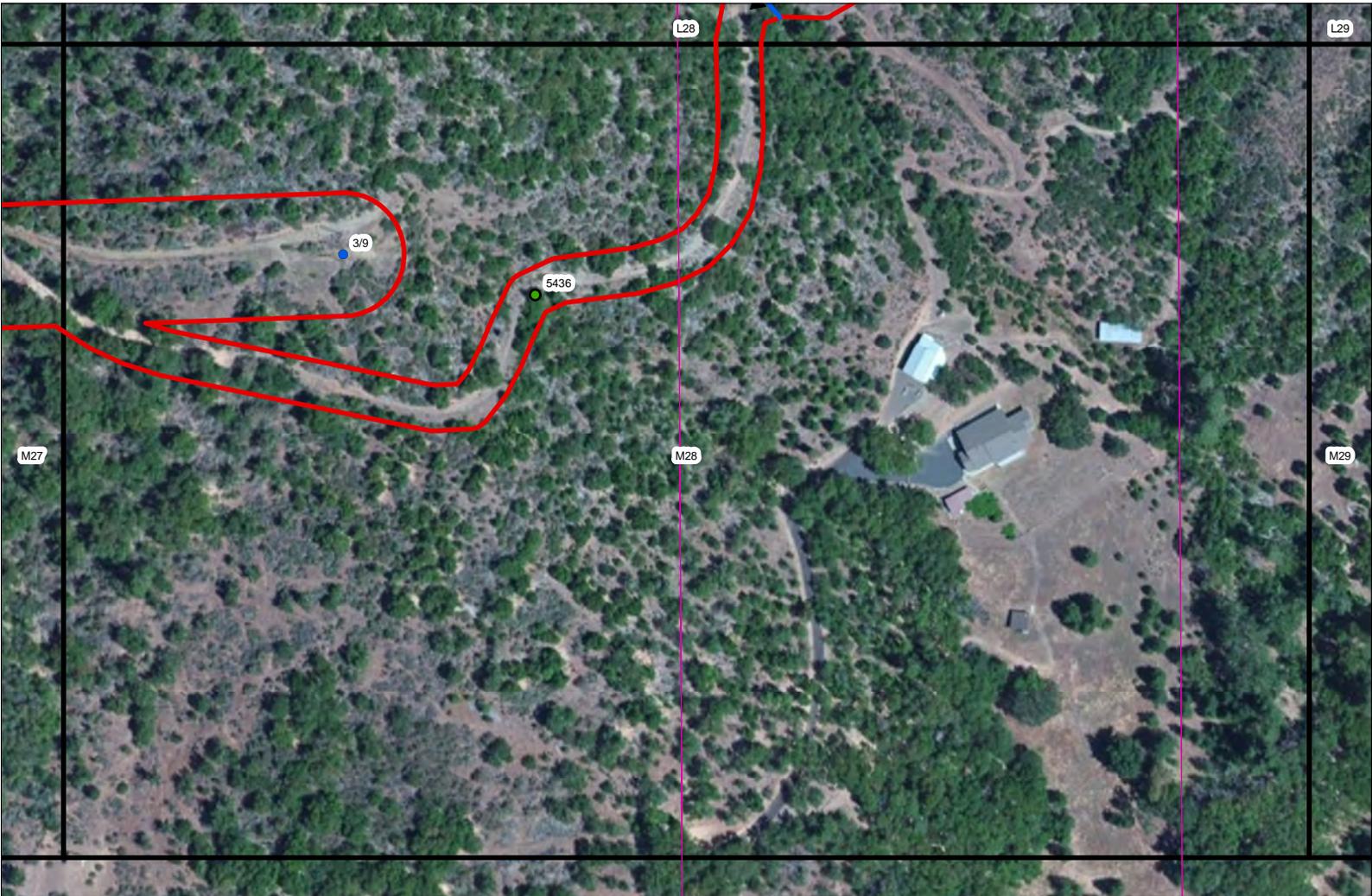
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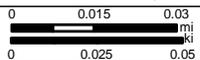
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-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

M27  
 Page 57 of 154



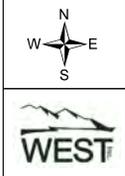
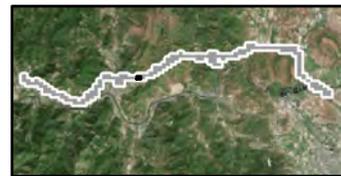


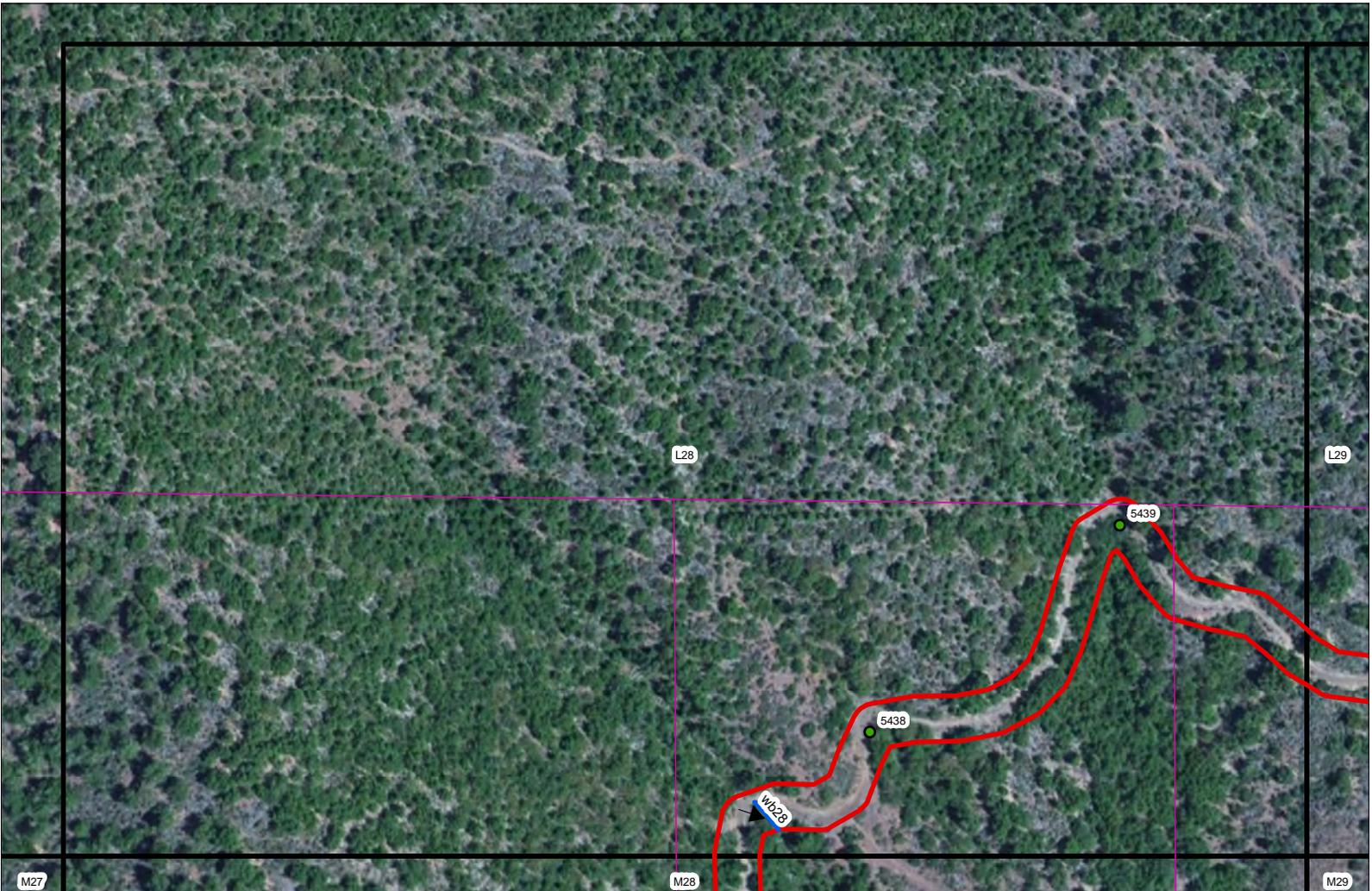
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**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

M28  
Page 58 of 154





**Sam's Valley Project**  
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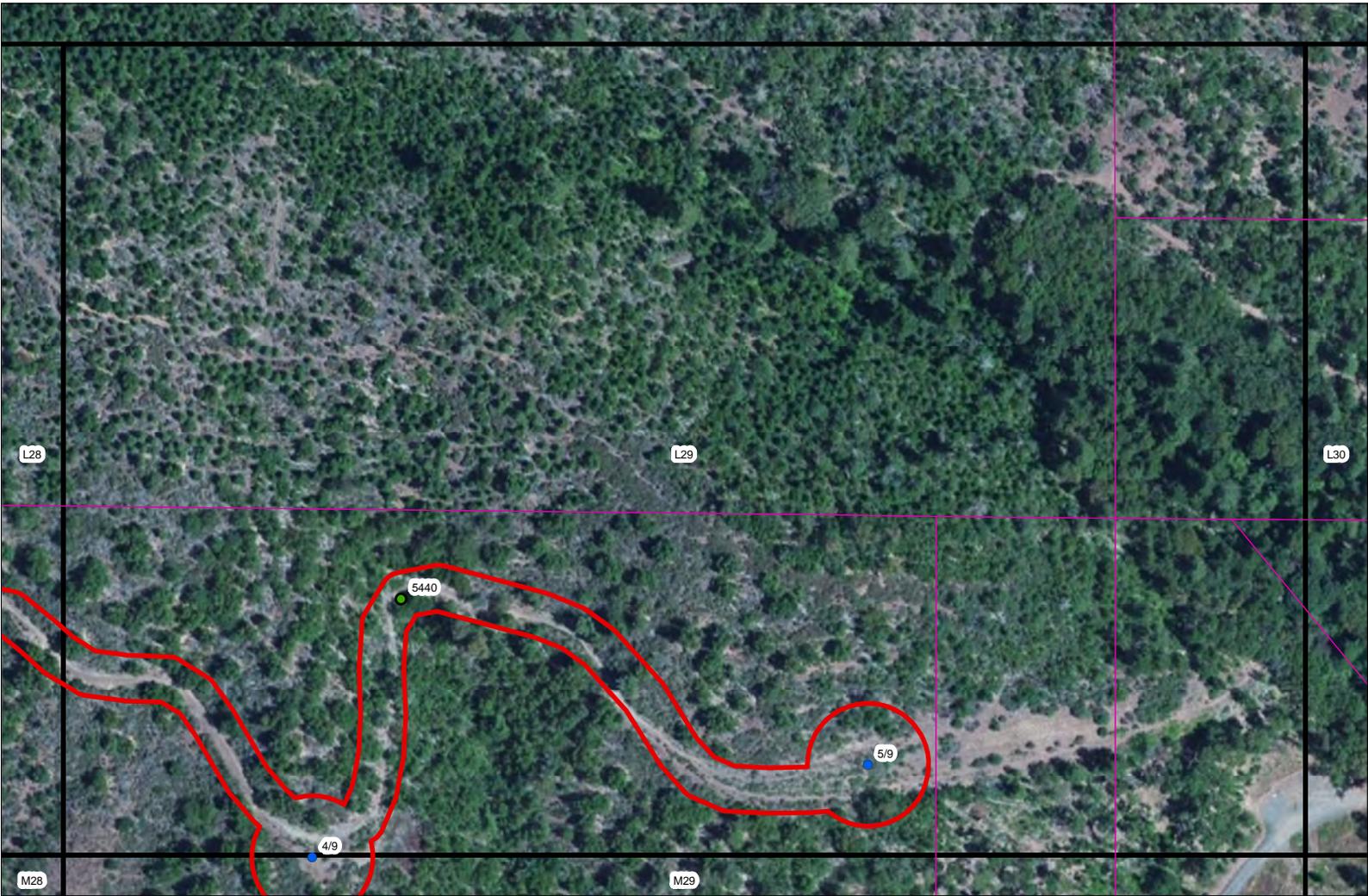
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-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

L28  
Page 59 of 154









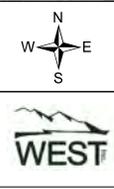
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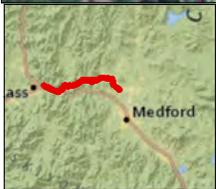
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-  Waters of the U.S.
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-  Photo Location/Direction
-  Tax Lots

L29  
 Page 60 of 154





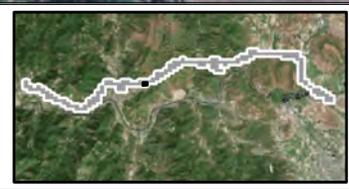
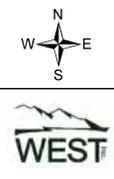
**Sam's Valley Project**  
**Jackson and Josphine, OR**

Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

M29  
 Page 61 of 154

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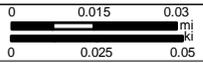
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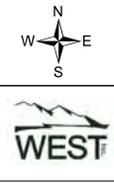


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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

L30  
 Page 62 of 154



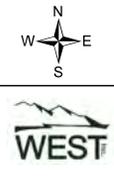


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

L31  
Page 63 of 154





**Sam's Valley Project**  
 Jackson and Josphine, OR

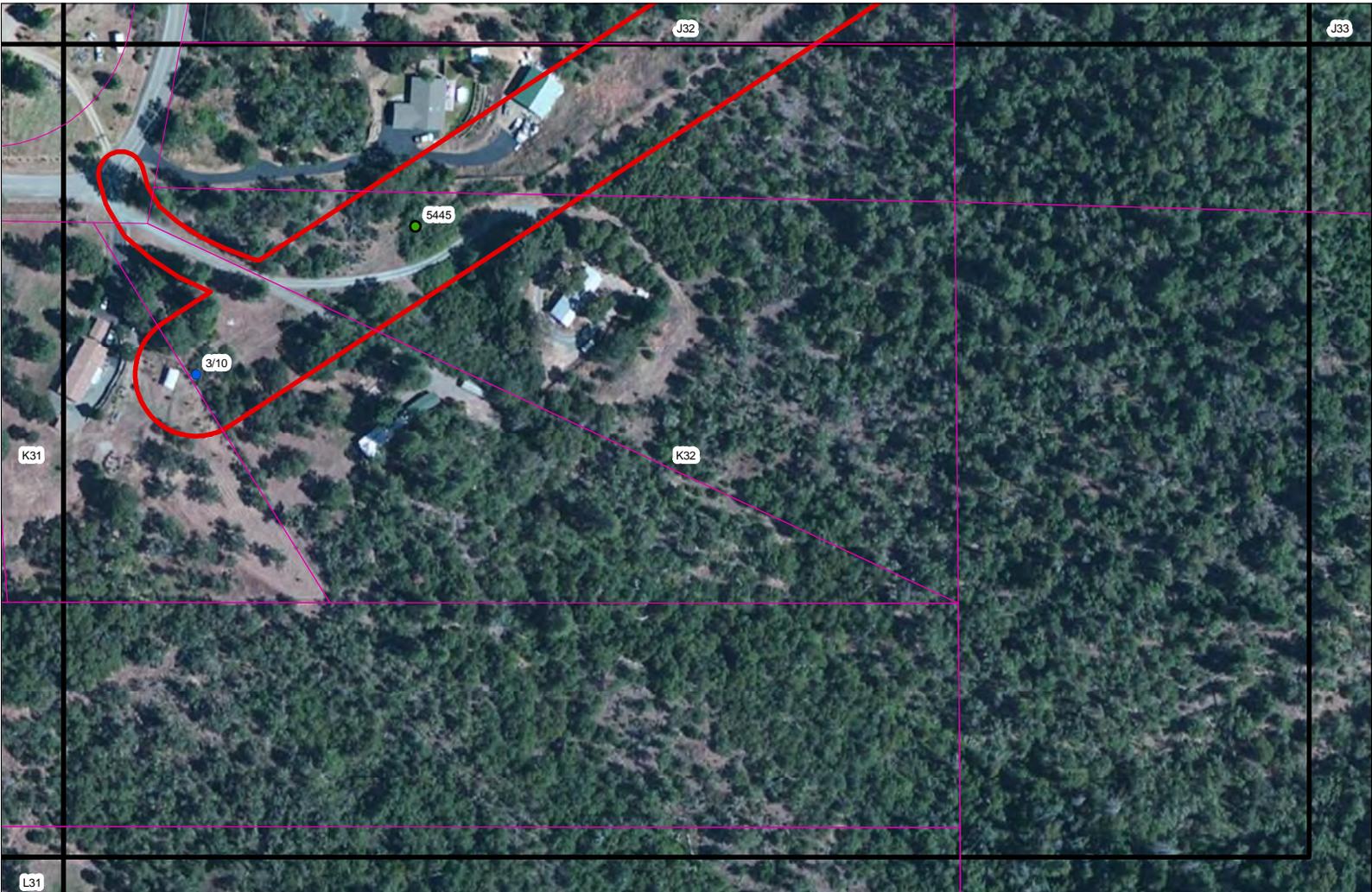
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- Study Area
- Transmission Structure
- Waters of the U.S.
- Non-Waters of the U.S.
- Photo Location/Direction
- Tax Lots

K31  
 Page 64 of 154





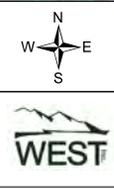
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**Jackson and Josphine, OR**

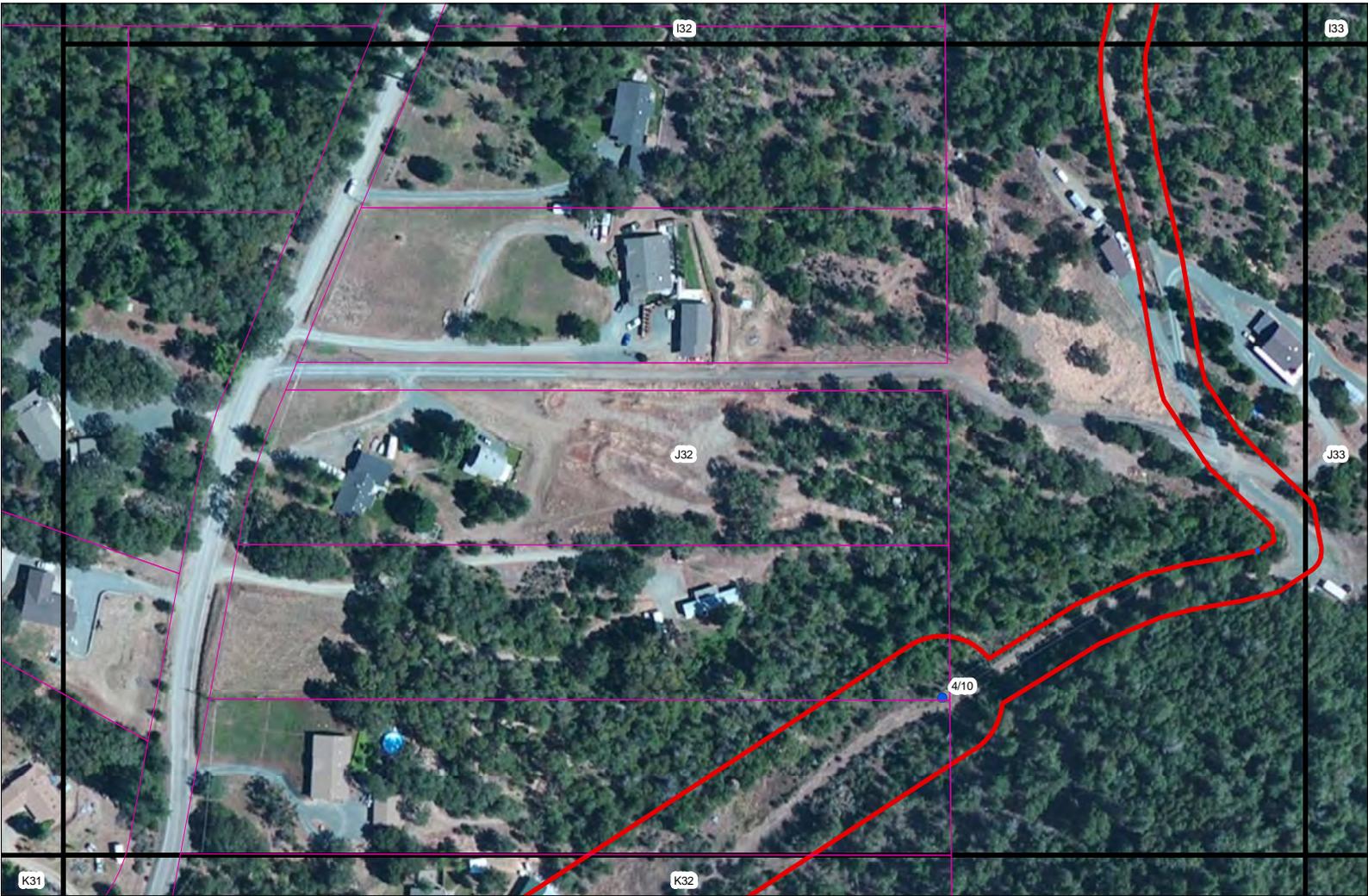
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

K32  
 Page 65 of 154



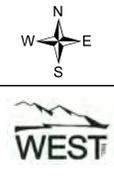


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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

J32  
 Page 66 of 154



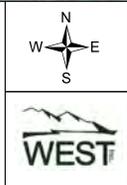


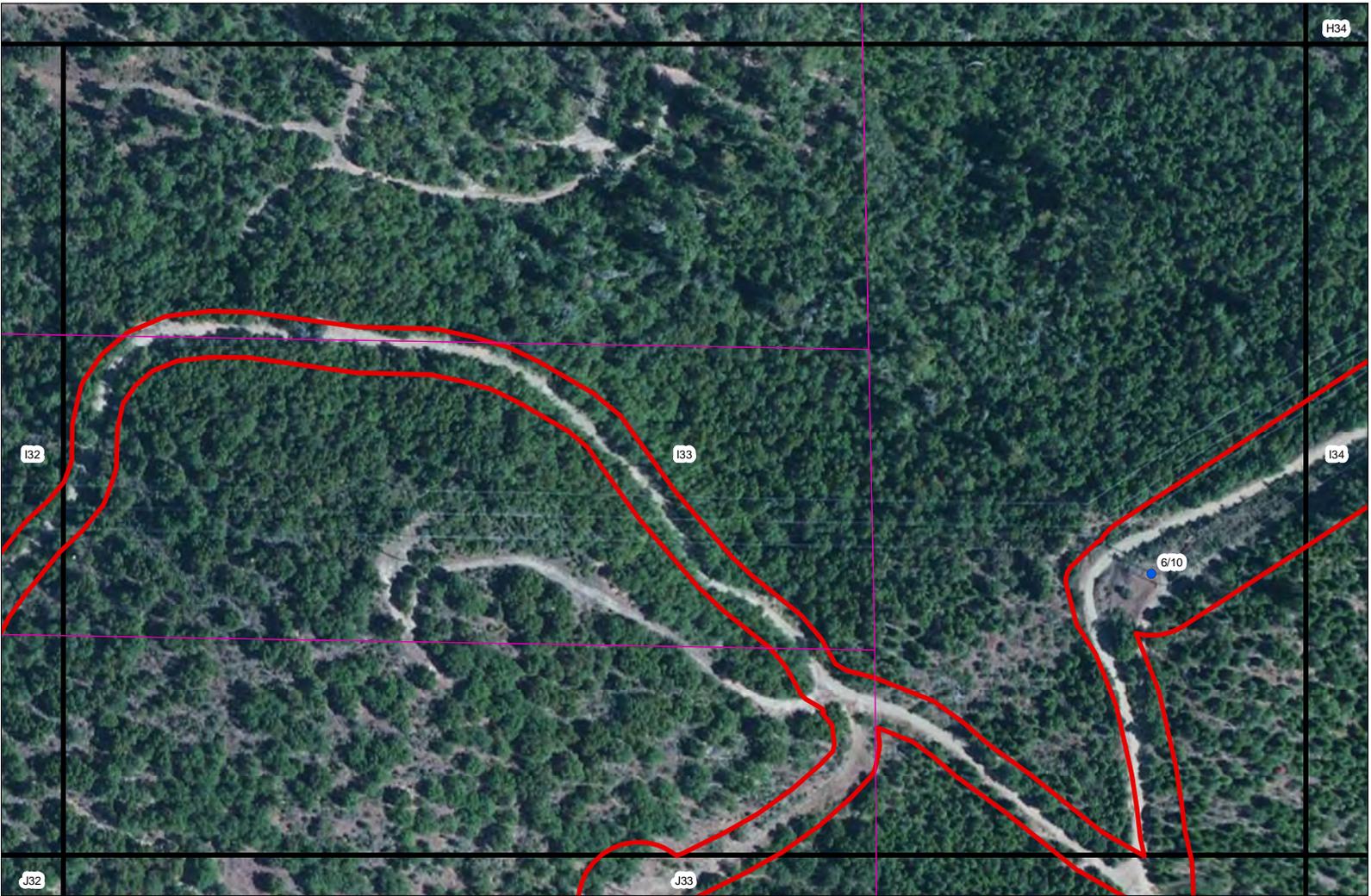
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

J32  
Page 67 of 154





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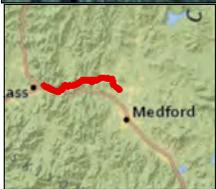
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-  Transmission Structure
-  Waters of the U.S.
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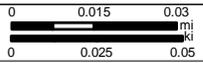


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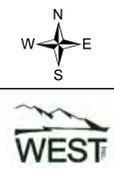


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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

J33  
Page 69 of 154





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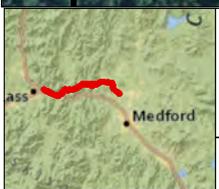
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

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Page 70 of 154



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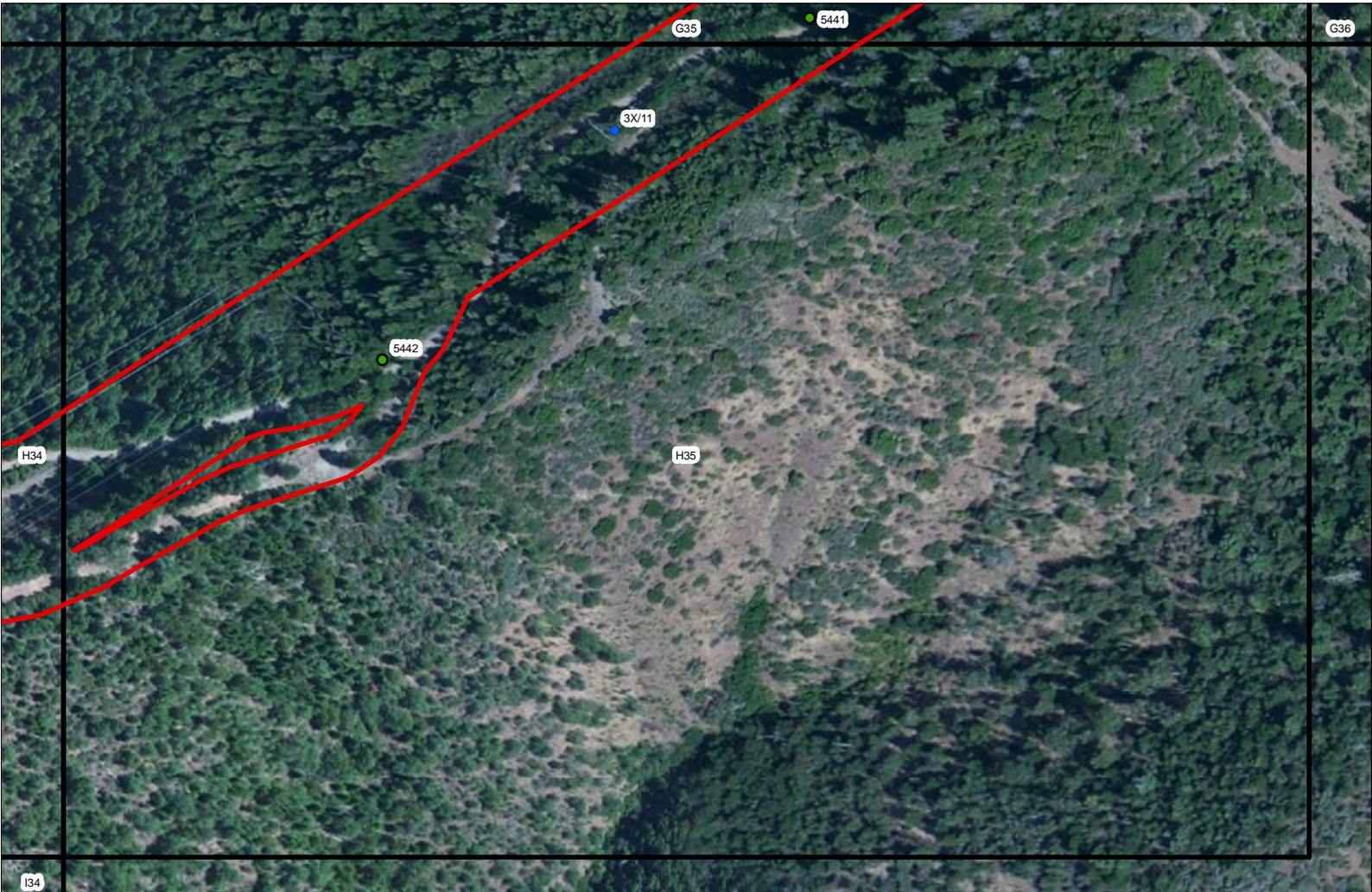
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

H34  
 Page 71 of 154



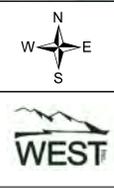


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 Data Source: World Imagery  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

H35  
Page 72 of 154





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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

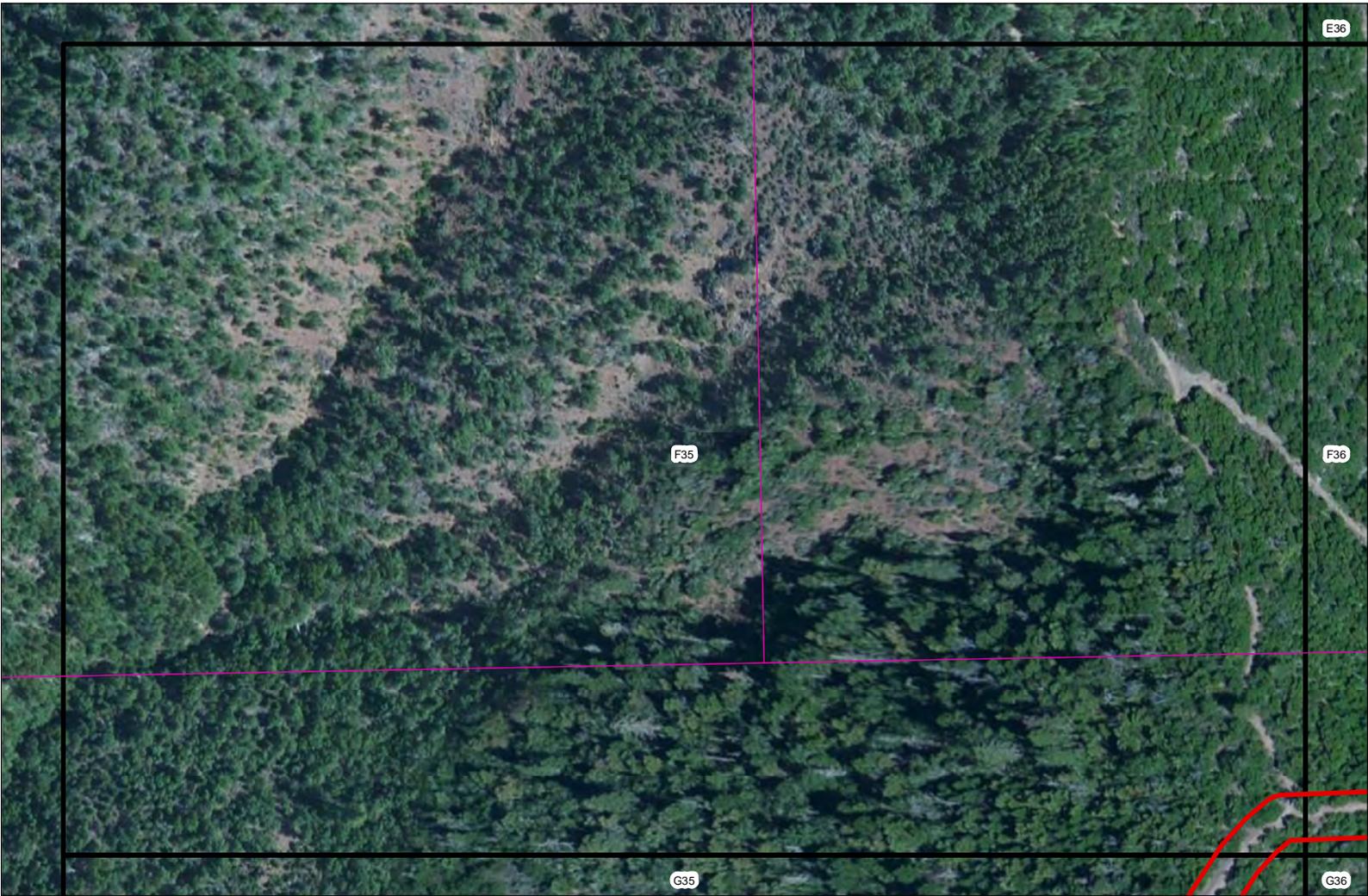
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Page 73 of 154



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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

F35  
 Page 74 of 154







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Data Source: World Imagery  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

G36  
 Page 75 of 154







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 Coordinate System: NAD 83 UTM Zone 10  
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-  Study Area
  -  Transmission Structure
  -  Waters of the U.S.
  -  Non-Waters of the U.S.
  -  Photo Location/Direction
  -  Tax Lots
- F36  
Page 76 of 154





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**Jackson and Josphine, OR**

Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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 Author: Troy Rintz

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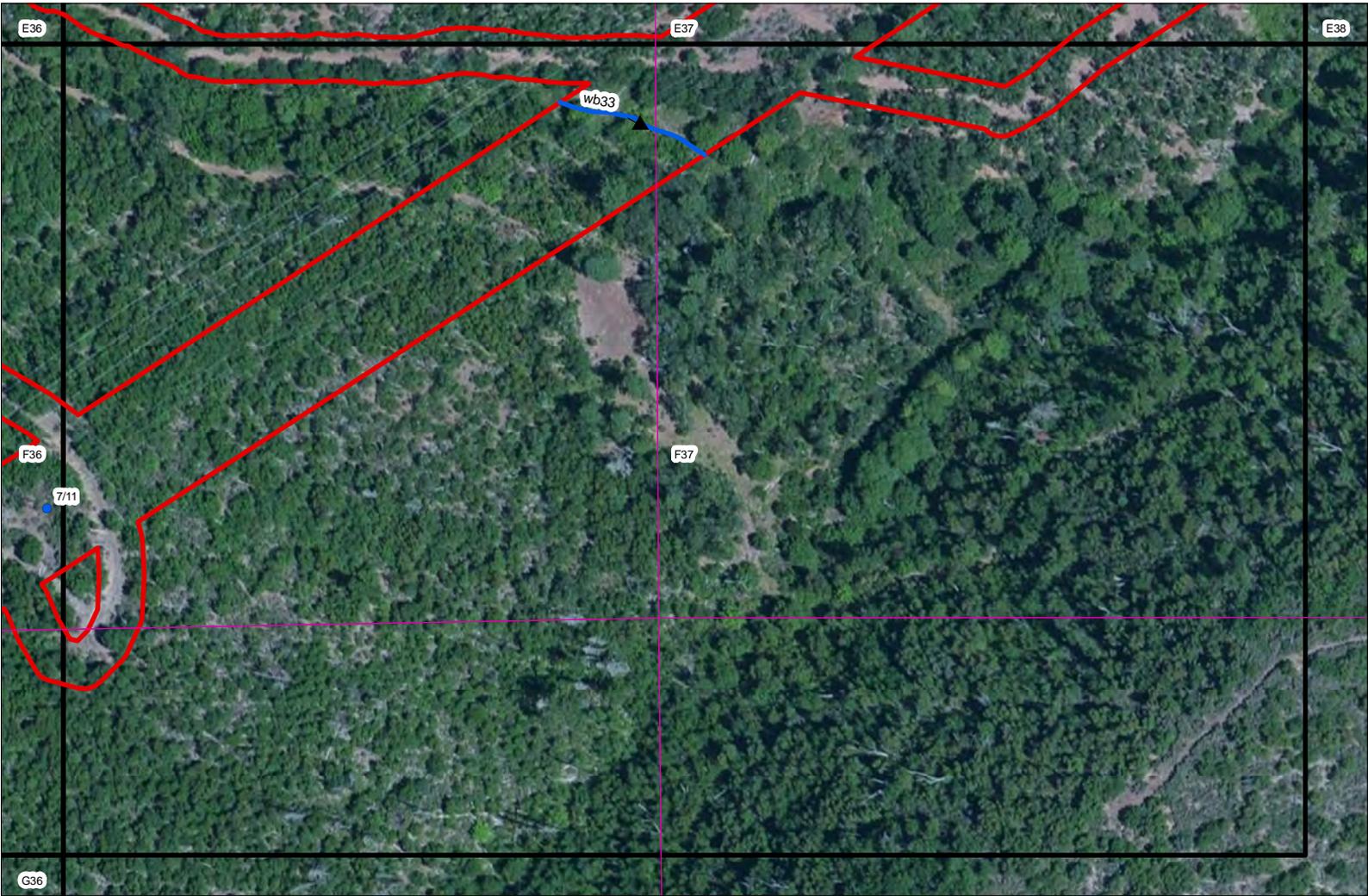
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E36  
 Page 77 of 154

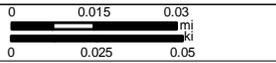


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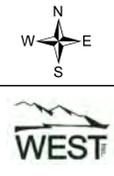


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- Study Area
- Transmission Structure
- Waters of the U.S.
- Non-Waters of the U.S.
- Photo Location/Direction
- Tax Lots

F37  
Page 78 of 154



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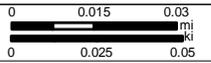
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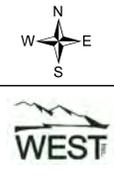


**Sam's Valley Project**  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E37  
 Page 79 of 154



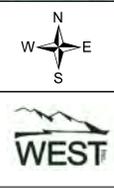


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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E38  
Page 80 of 154





**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
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- Study Area
- Transmission Structure
- Waters of the U.S.
- Non-Waters of the U.S.
- Photo Location/Direction
- Tax Lots

D38  
Page 81 of 154



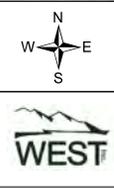


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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E39  
Page 82 of 154





**Sam's Valley Project**  
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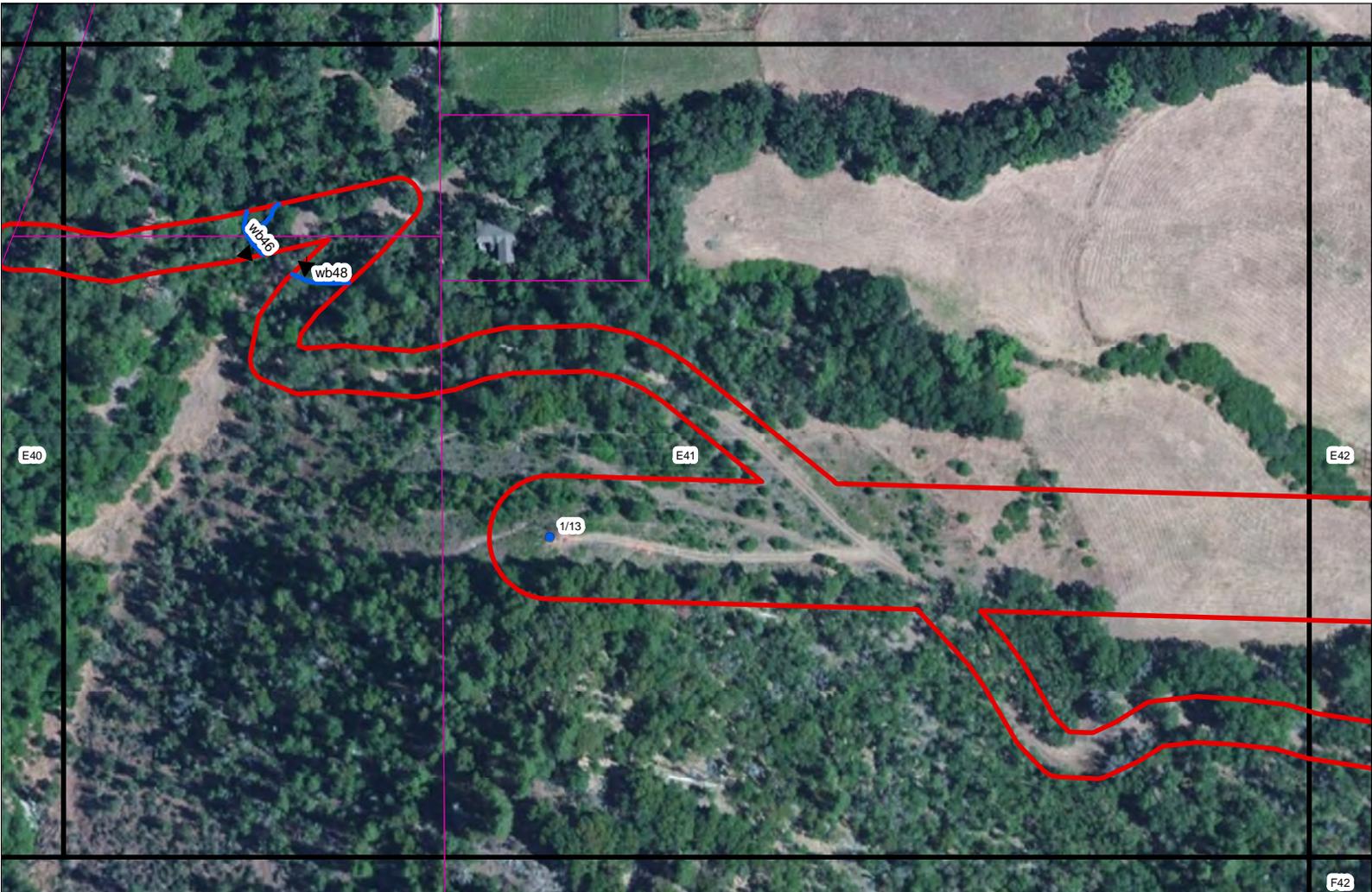
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E40  
Page 83 of 154



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- Study Area
- Transmission Structure
- Waters of the U.S.
- Non-Waters of the U.S.
- Photo Location/Direction
- Tax Lots

E41  
Page 84 of 154



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**Sam's Valley Project**  
**Jackson and Josphine, OR**  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E42  
Page 85 of 154







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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

F42  
Page 86 of 154




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**Sam's Valley Project**  
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 Data Source: World Imagery  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E43  
Page 87 of 154

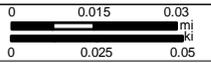


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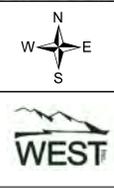


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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

F43  
 Page 88 of 154



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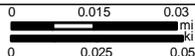
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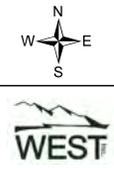


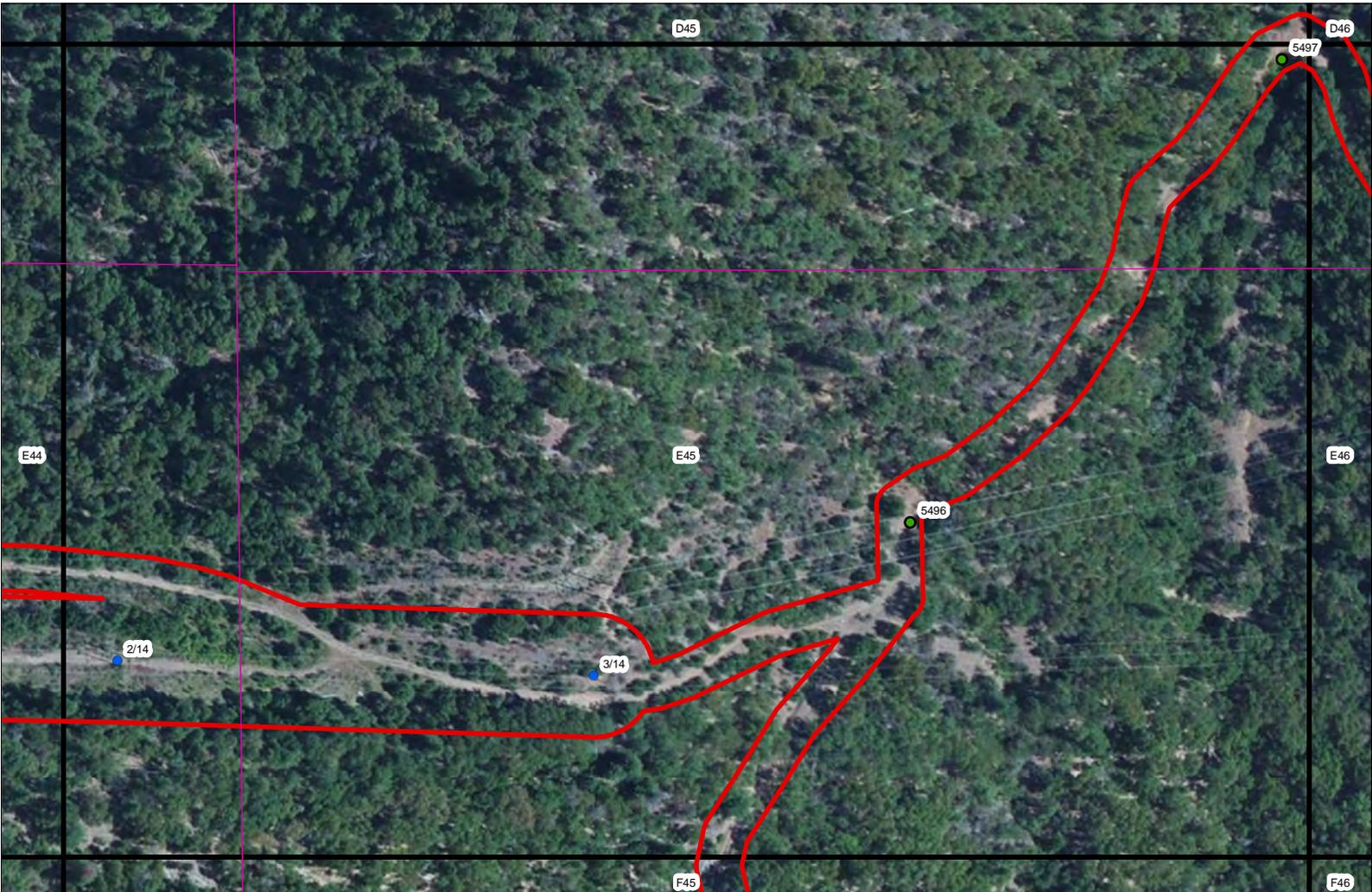
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E44  
 Page 89 of 154





**Sam's Valley Project**  
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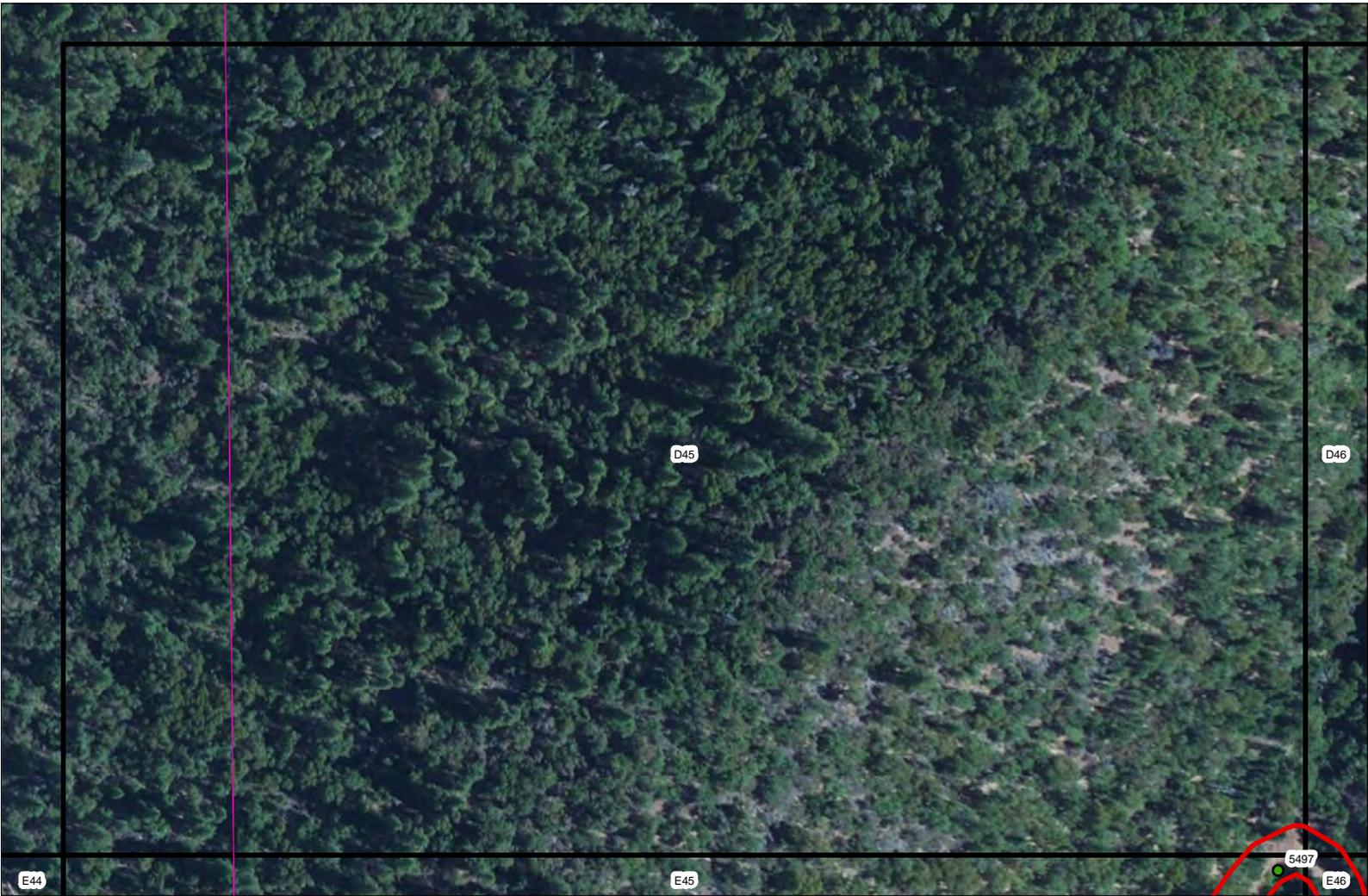
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E45  
 Page 90 of 154









**Sam's Valley Project**  
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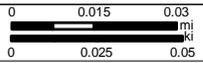
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- Transmission Structure
- Waters of the U.S.
- Non-Waters of the U.S.
- Photo Location/Direction
- Tax Lots

D45  
Page 91 of 154



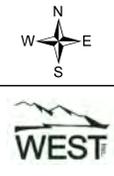


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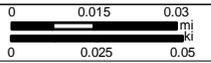
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-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

D46  
 Page 92 of 154





**Sam's Valley Project**  
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-  Study Area
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-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

F45  
Page 93 of 154





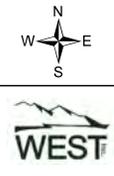


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-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

G45  
Page 94 of 154





**Sam's Valley Project**  
**Jackson and Josephine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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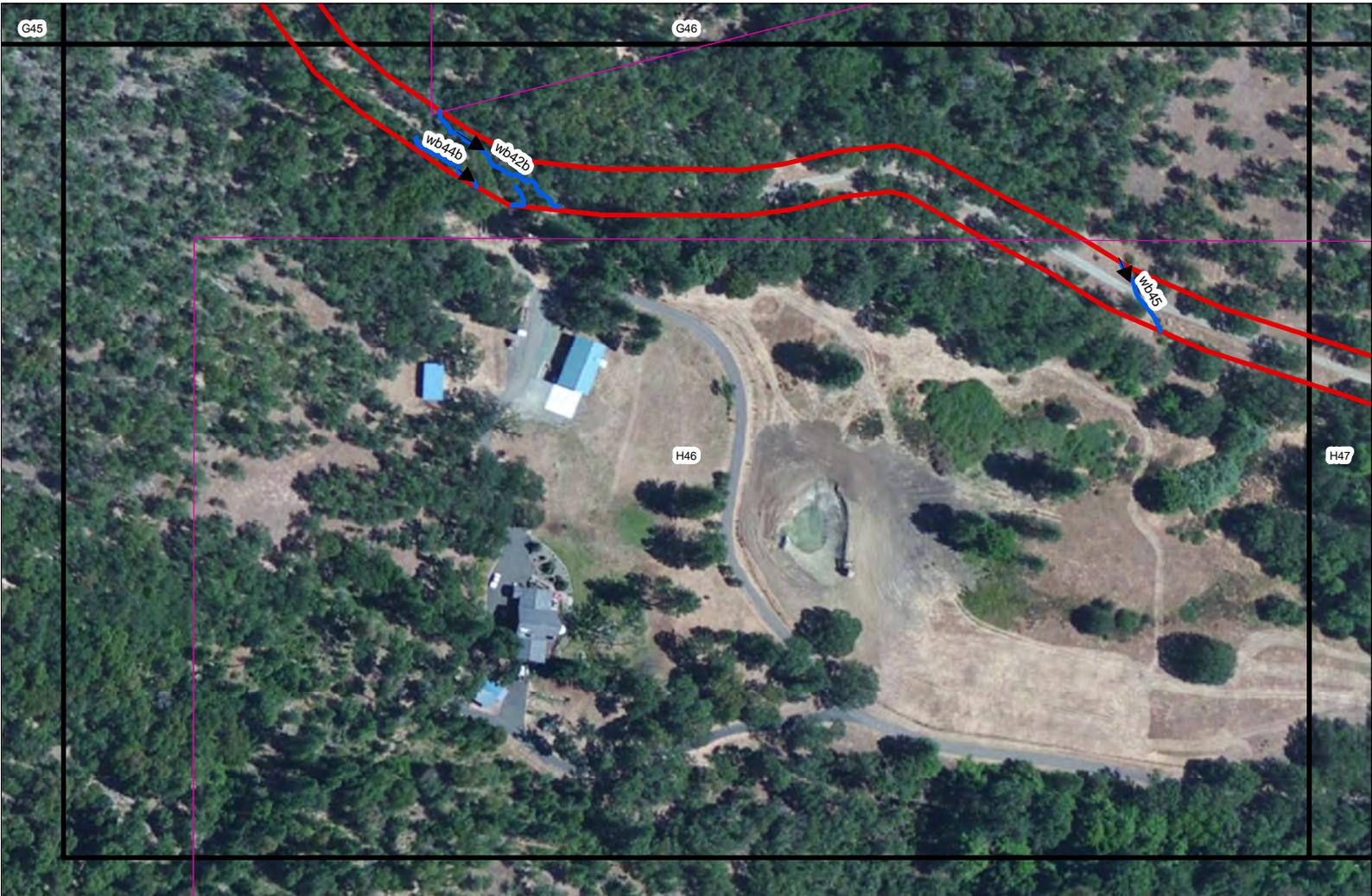
-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

G46  
Page 95 of 154



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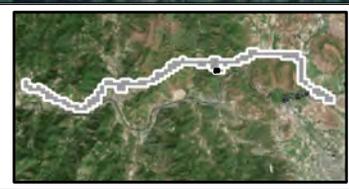


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

H46  
Page 96 of 154





N  
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**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

H47  
 Page 97 of 154




A north arrow with 'N', 'S', 'E', and 'W' labels. Below it is the 'WEST' logo, which features a stylized mountain range above the word 'WEST' in a bold, sans-serif font.

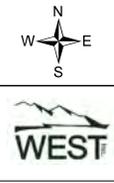


**Sam's Valley Project**  
**Jackson and Josephine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E46  
Page 98 of 154



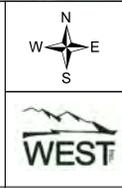


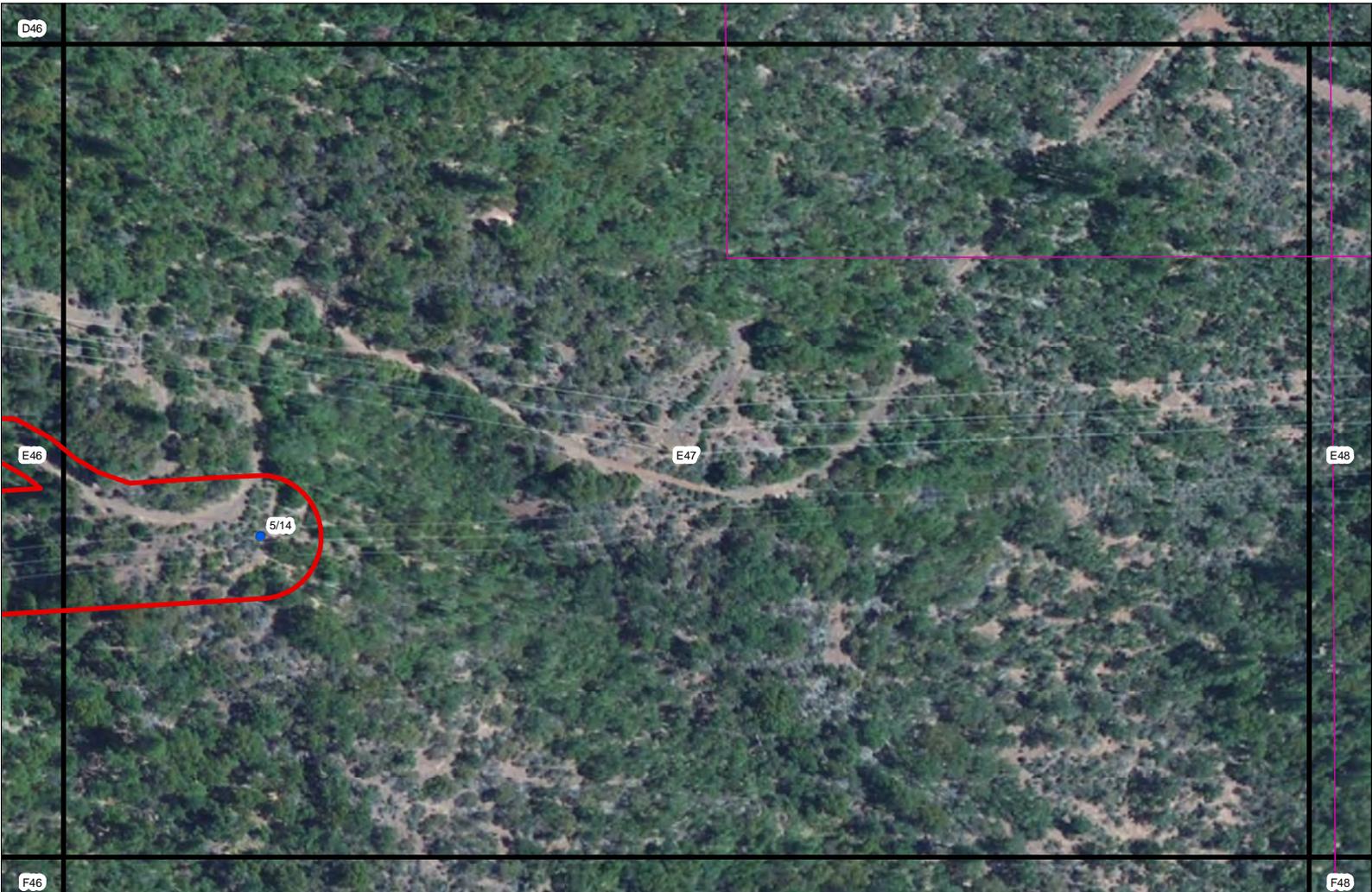
**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

F46  
Page 99 of 154



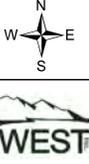


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
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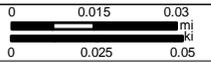
-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E47  
Page 100 of 154

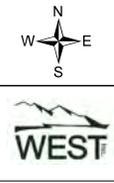


**Sam's Valley Project**  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

F48  
Page 101 of 154





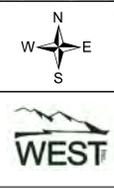
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**Jackson and Josphine, OR**

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 Coordinate System: NAD 83 UTM Zone 10  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E48  
 Page 102 of 154





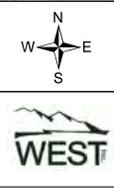
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**Jackson and Josphine, OR**

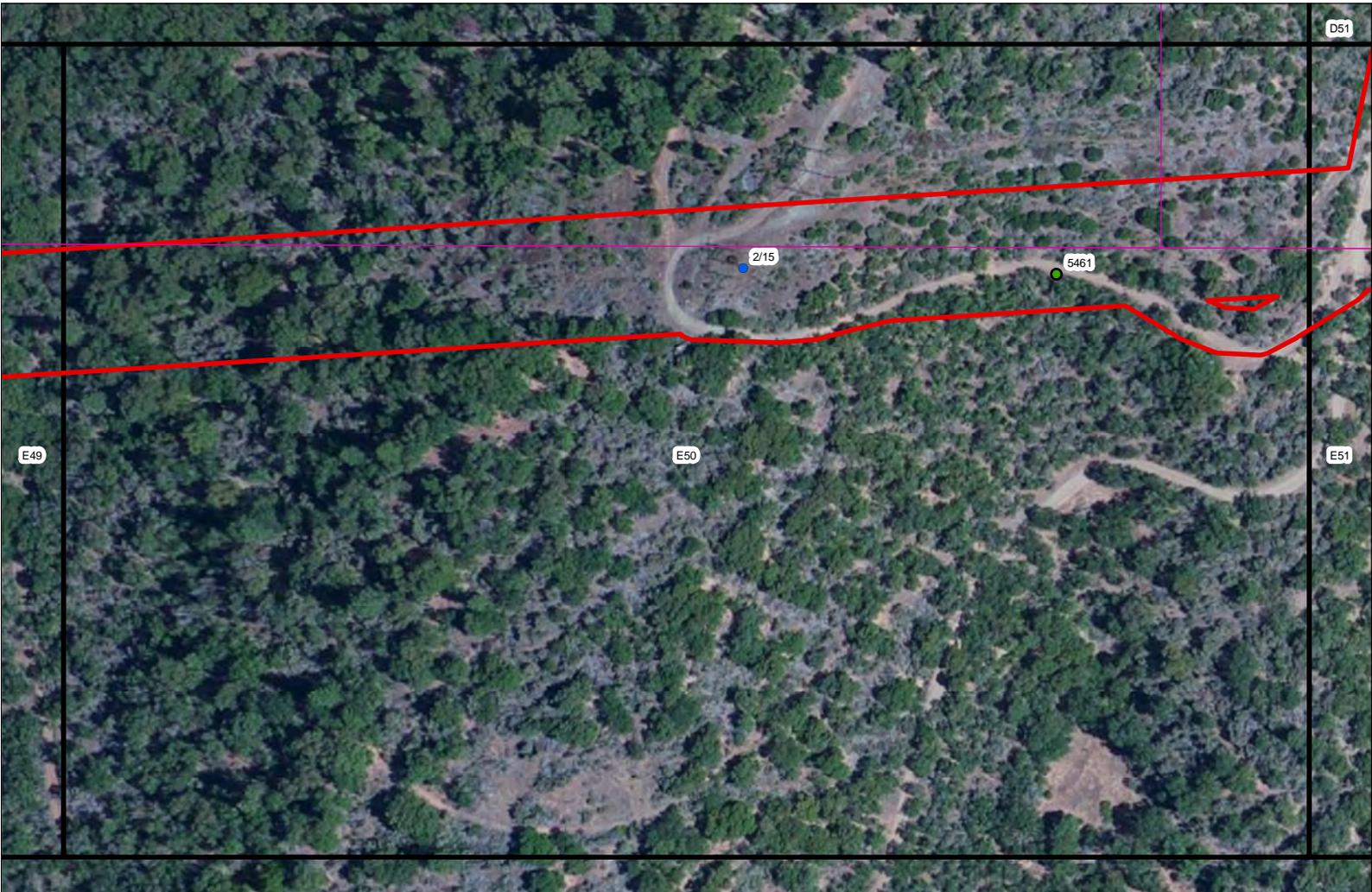
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E49  
 Page 103 of 154





**Sam's Valley Project**  
**Jackson and Josephine, OR**  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

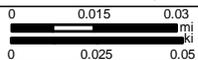
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Page 104 of 154







**Sam's Valley Project**  
**Jackson and Josephine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz



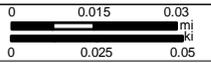
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

E51  
Page 105 of 154



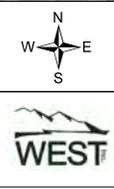


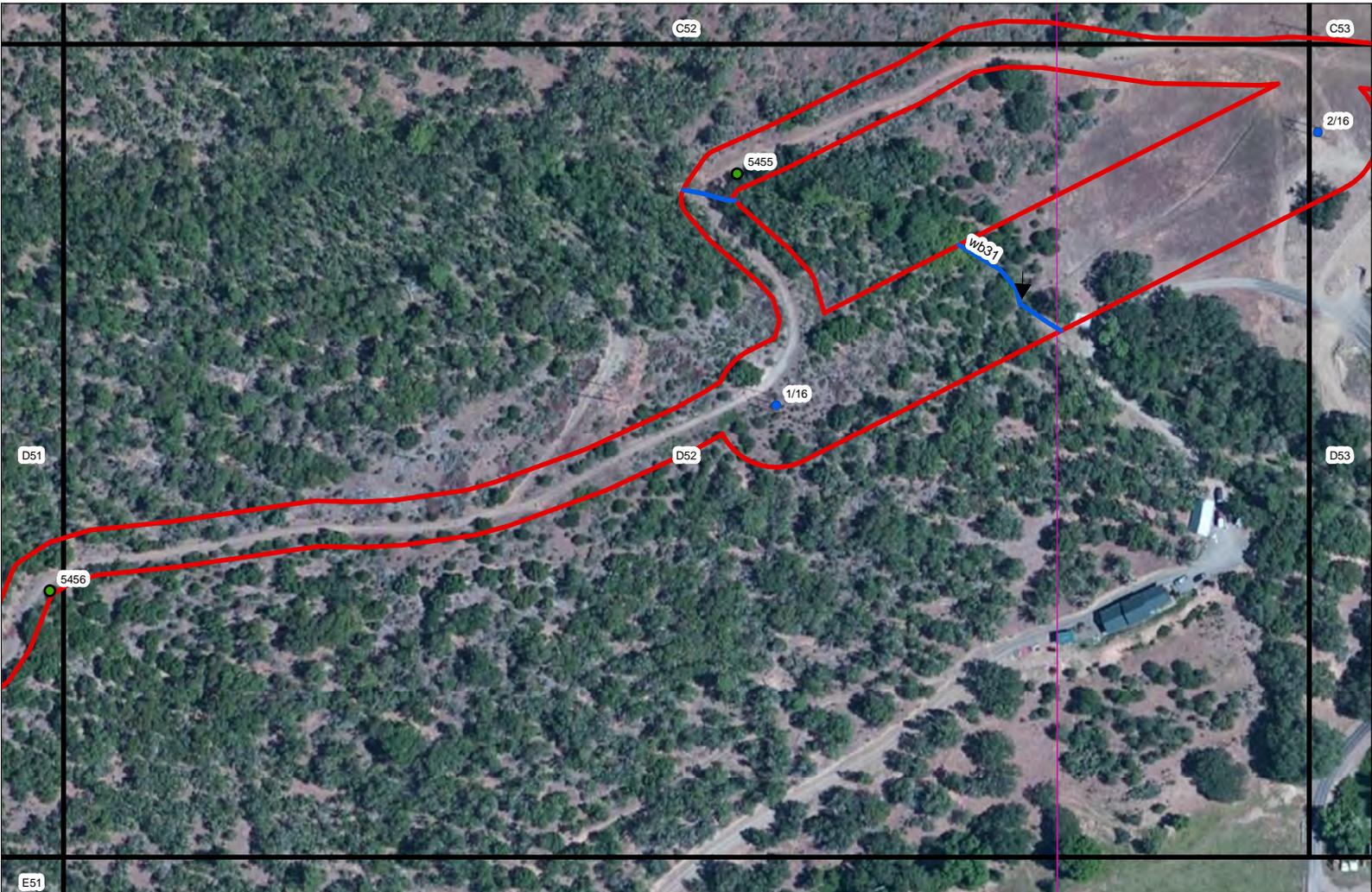
**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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 Author: Troy Rintz



- Study Area
- Transmission Structure
- Waters of the U.S.
- Non-Waters of the U.S.
- Photo Location/Direction
- Tax Lots

D51  
 Page 106 of 154





**Sam's Valley Project**  
**Jackson and Josephine, OR**  
 Data Source: World Imagery  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

D52  
Page 107 of 154



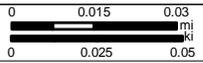
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**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots



C52  
 Page 108 of 154







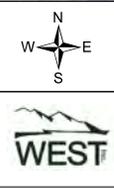


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

D53  
 Page 109 of 154





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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

C53  
 Page 110 of 154







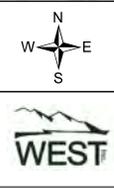
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**Jackson and Josphine, OR**

Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

C54  
 Page 111 of 154



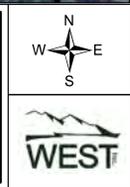
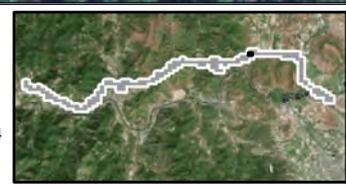


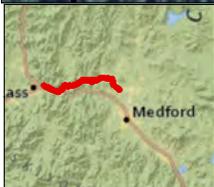
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**Jackson and Josphine, OR**  
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 Date: 12/27/2017  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

B54  
Page 112 of 154



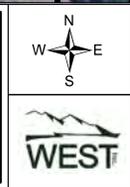
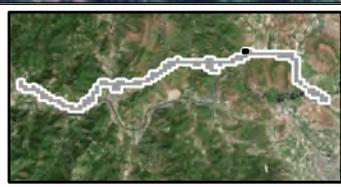


**Sam's Valley Project**  
**Jackson and Josephine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

A54  
Page 113 of 154





**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

A55  
 Page 114 of 154







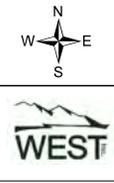
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**Jackson and Josphine, OR**

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 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

B55  
 Page 115 of 154





**Sam's Valley Project**  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

B56  
Page 116 of 154





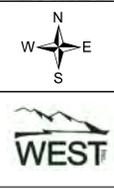


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**Jackson and Josphine, OR**  
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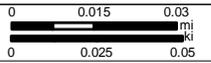
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

B57  
Page 117 of 154



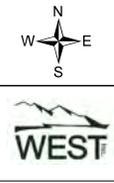


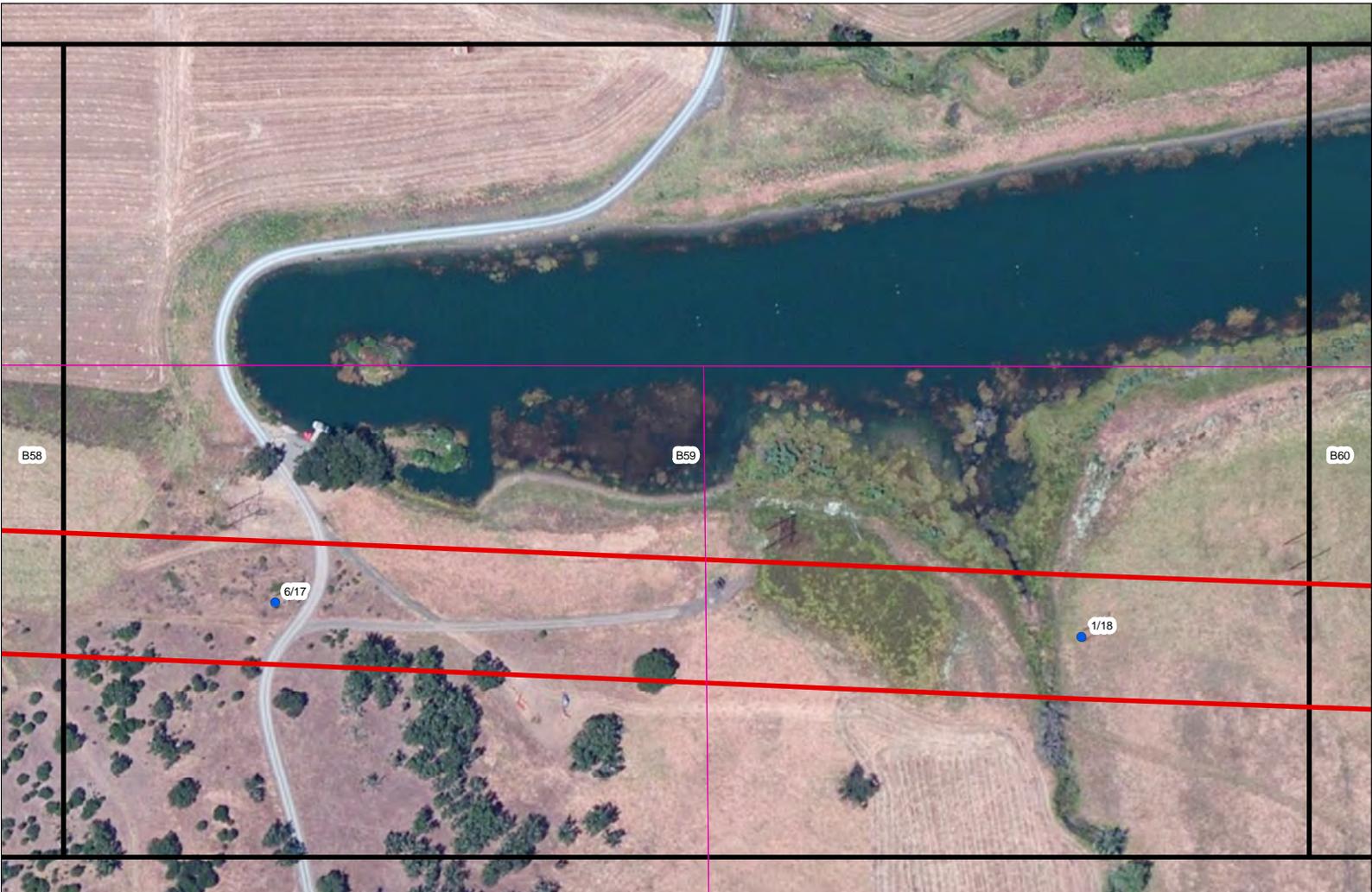
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 Date: 12/27/2017  
 Author: Troy Rintz



-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

B58  
 Page 118 of 154





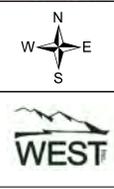
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**Jackson and Josphine, OR**

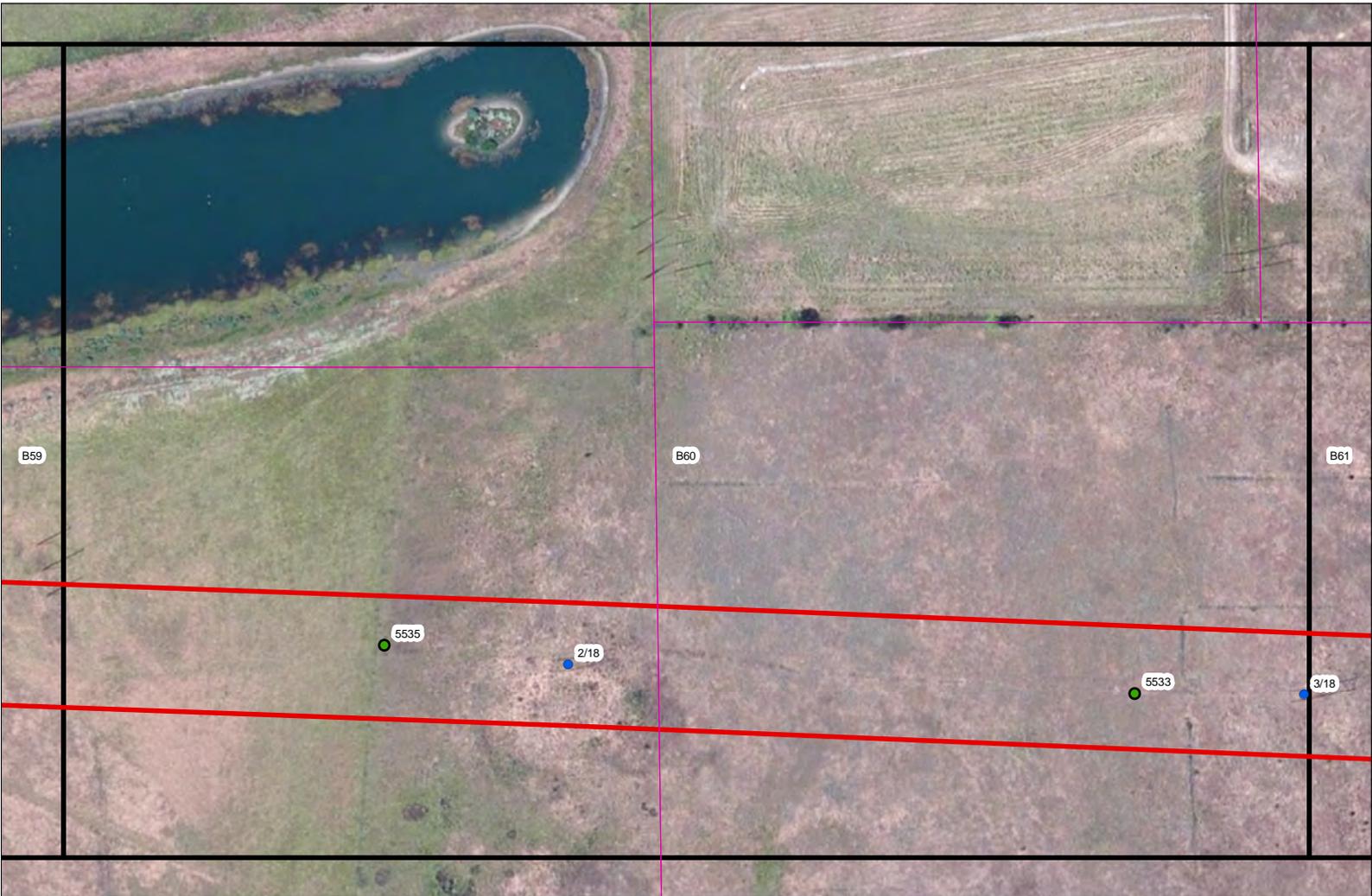
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 Date: 12/27/2017  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

B59  
 Page 119 of 154

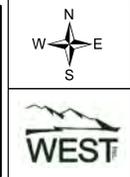


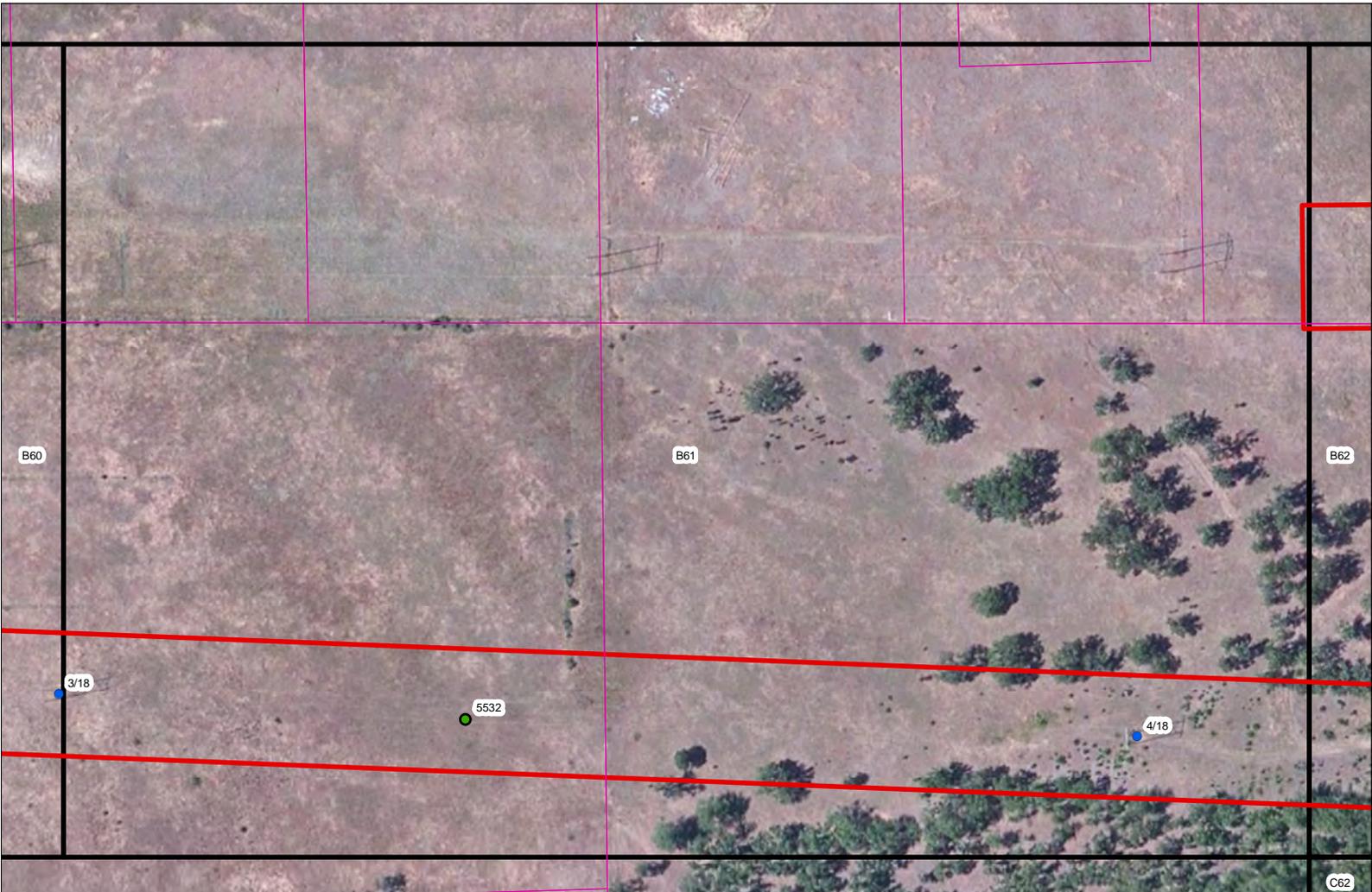


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
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 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots



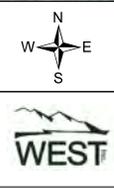


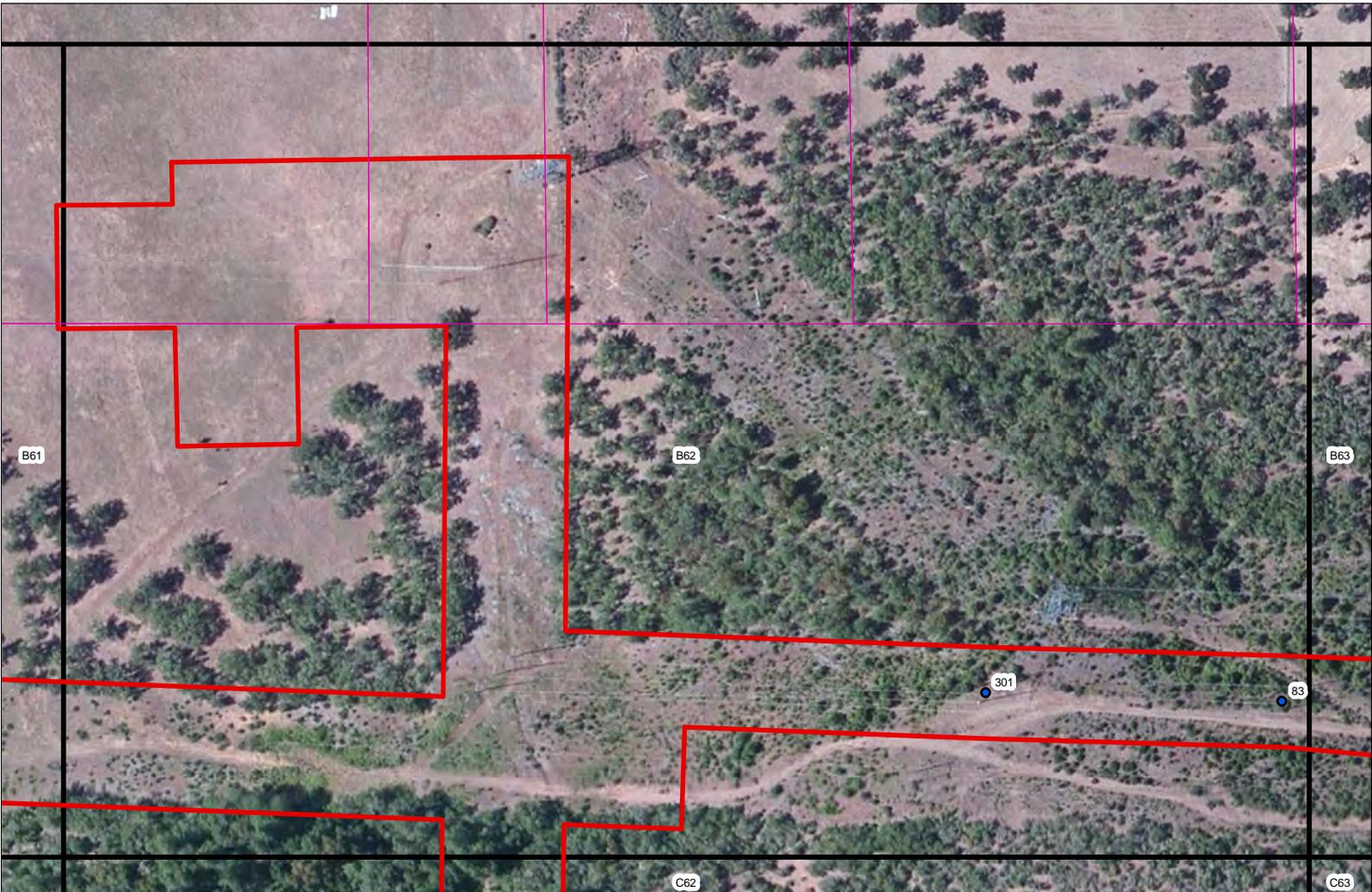
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**Jackson and Josphine, OR**  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

B61  
 Page 121 of 154



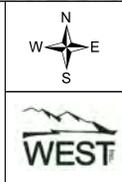


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

B62  
Page 122 of 154





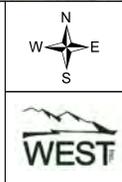
**Sam's Valley Project**  
Jackson and Josphine, OR

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Date: 12/27/2017  
Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

C62  
Page 123 of 154





**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

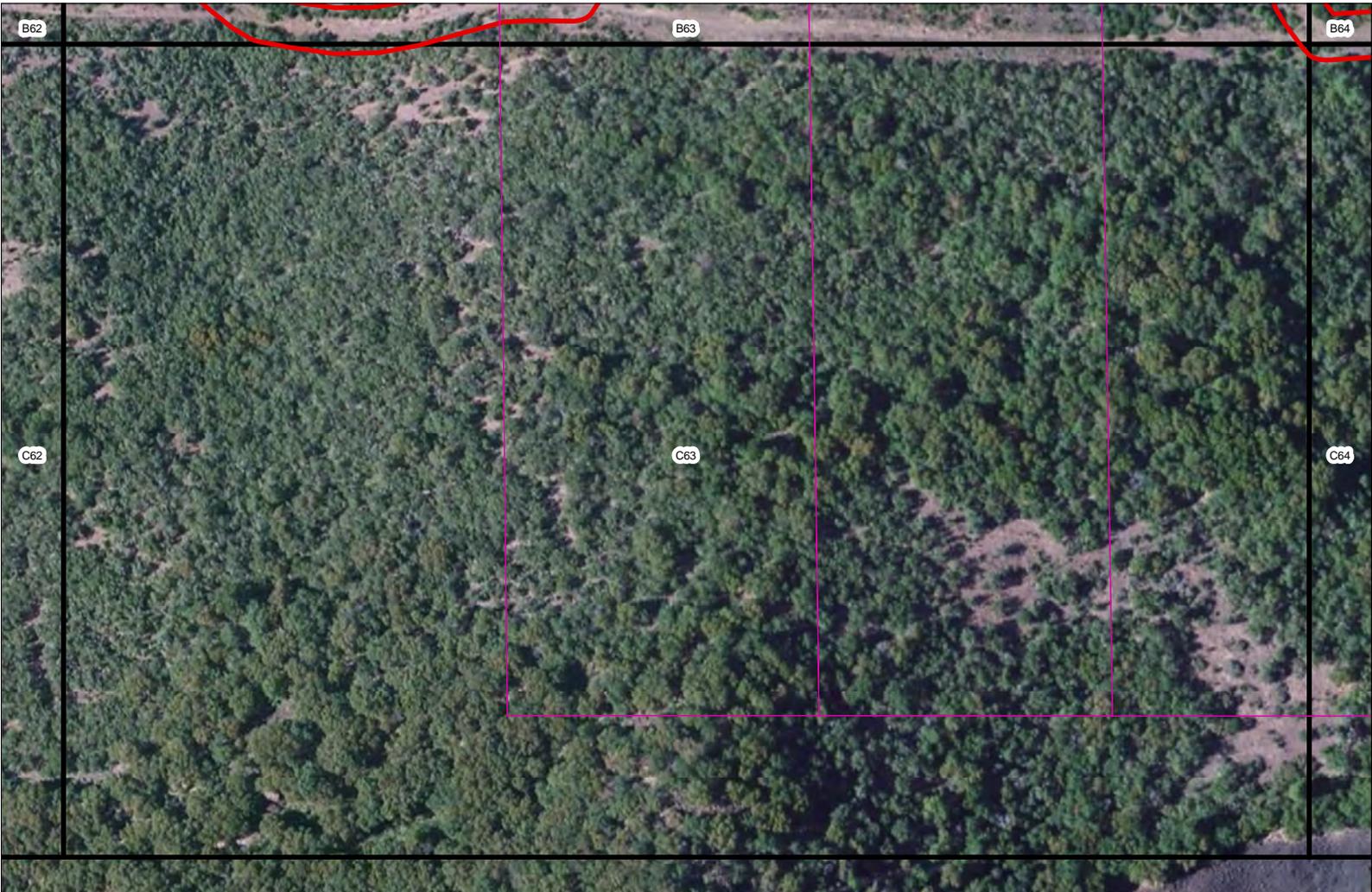
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- Study Area
- Transmission Structure
- Waters of the U.S.
- Non-Waters of the U.S.
- Photo Location/Direction
- Tax Lots

B63  
Page 124 of 154



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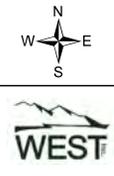
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**Jackson and Josphine, OR**

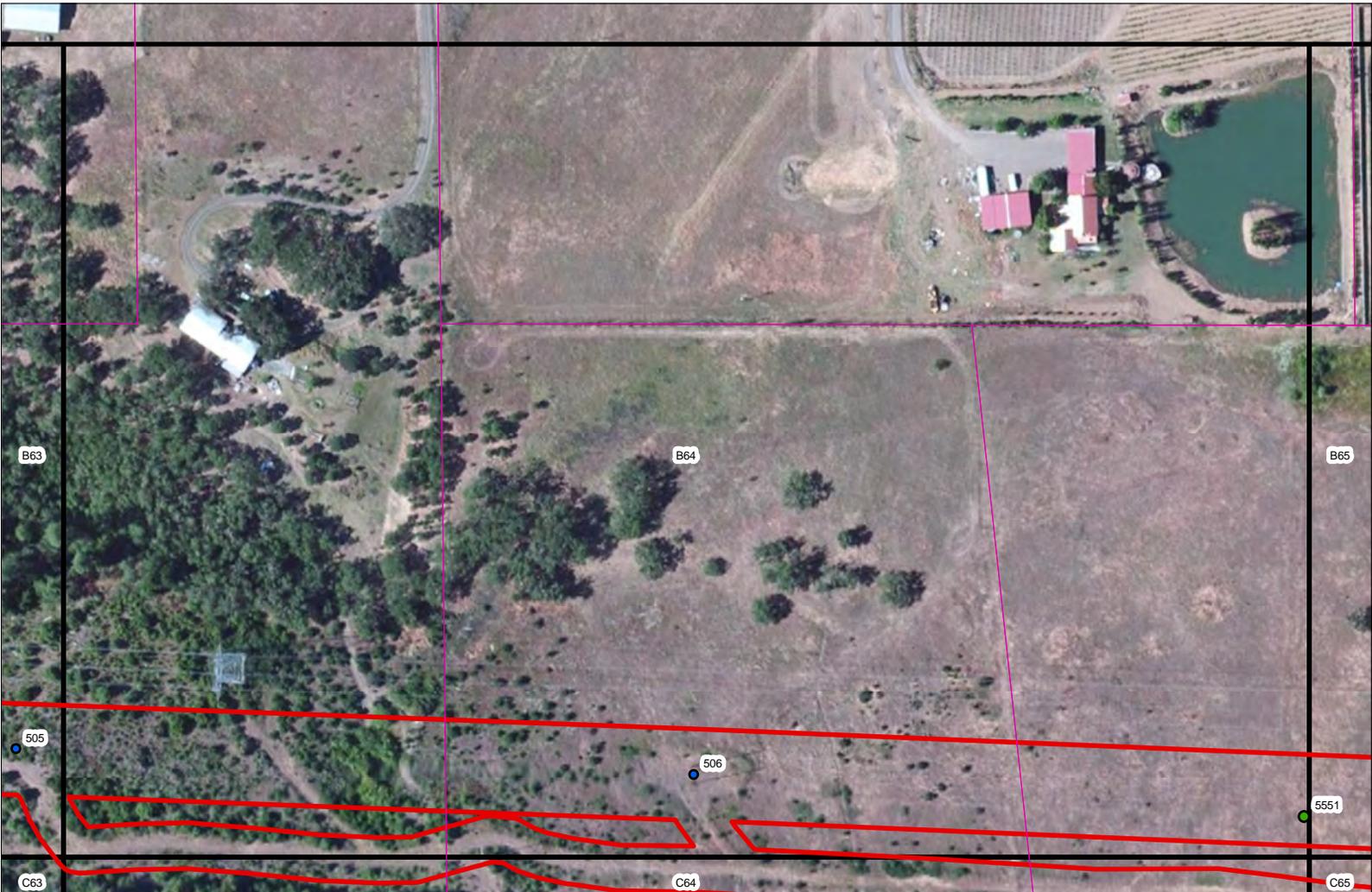
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Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

C63  
Page 125 of 154



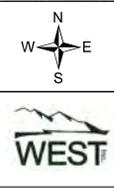


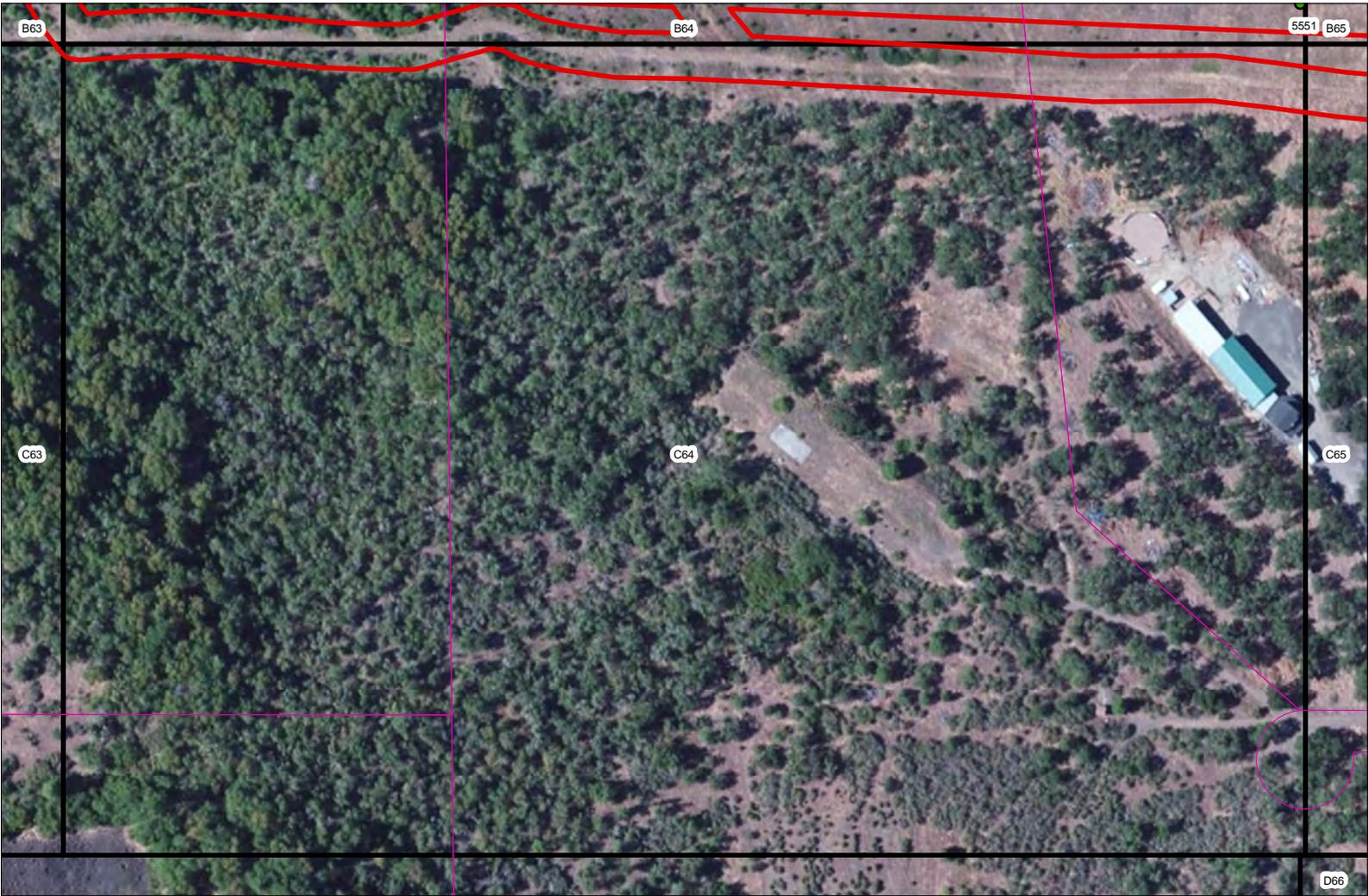
**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

0 0.015 0.03  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

B64  
 Page 126 of 154



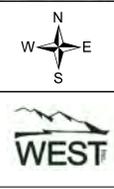


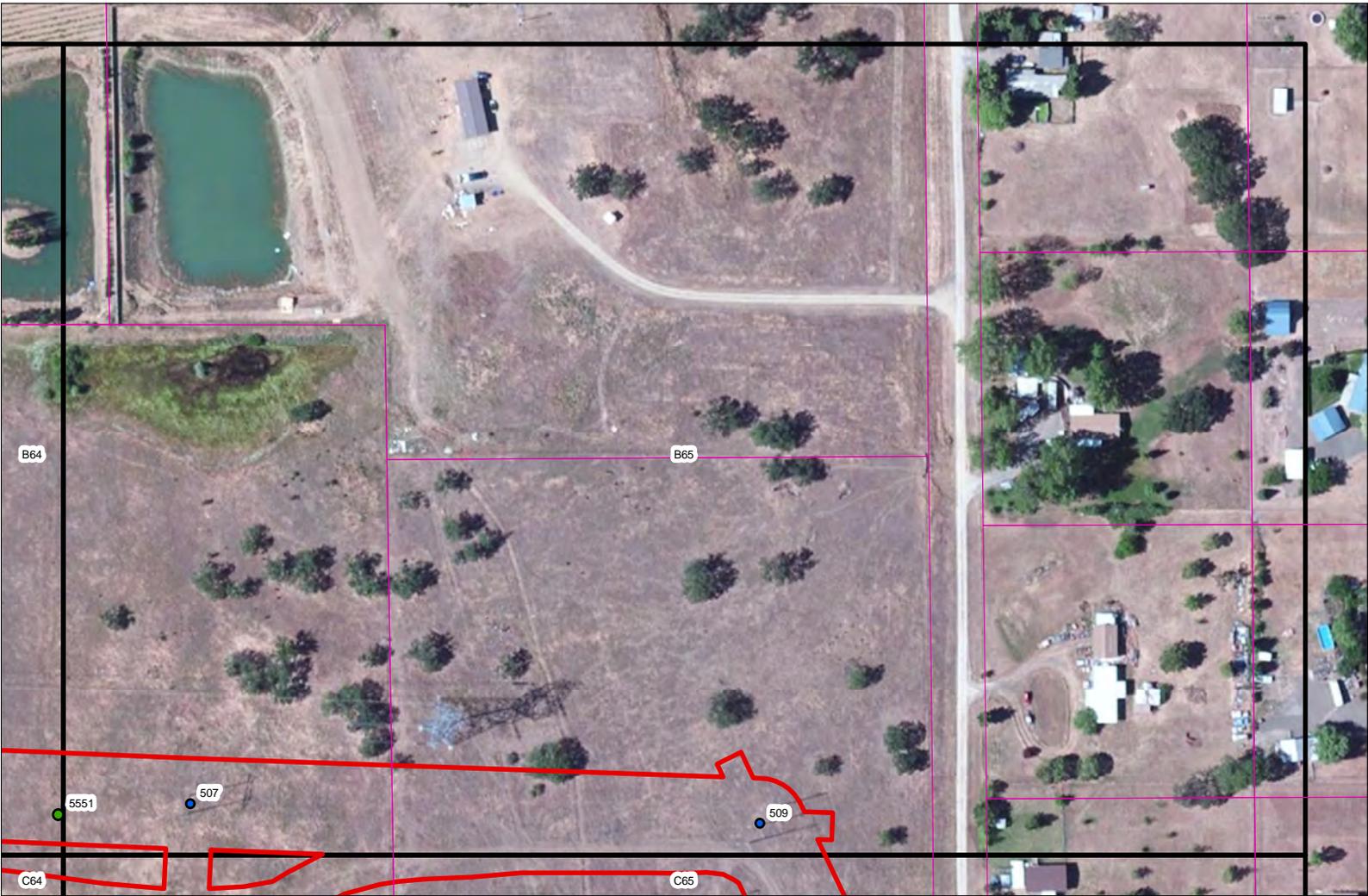
**Sam's Valley Project**  
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C64  
Page 127 of 154



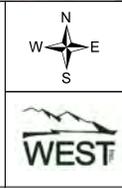


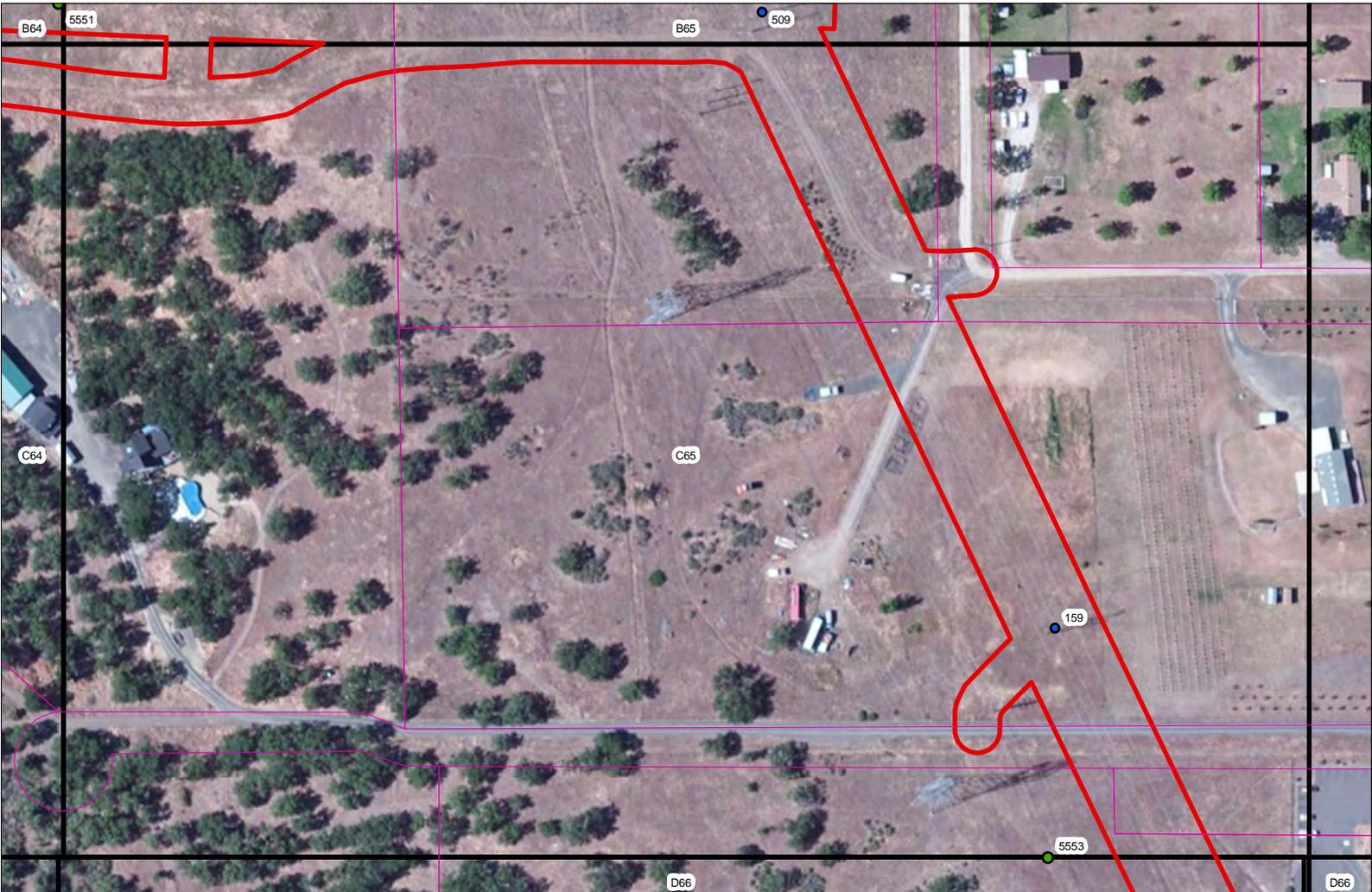
**Sam's Valley Project**  
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-  Study Area
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B65  
 Page 128 of 154





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**Jackson and Josphine, OR**

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-  Study Area
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-  Photo Location/Direction
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C65  
 Page 129 of 154



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-  Study Area
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 Page 130 of 154

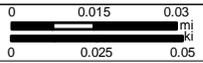


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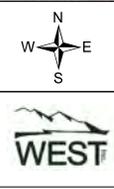


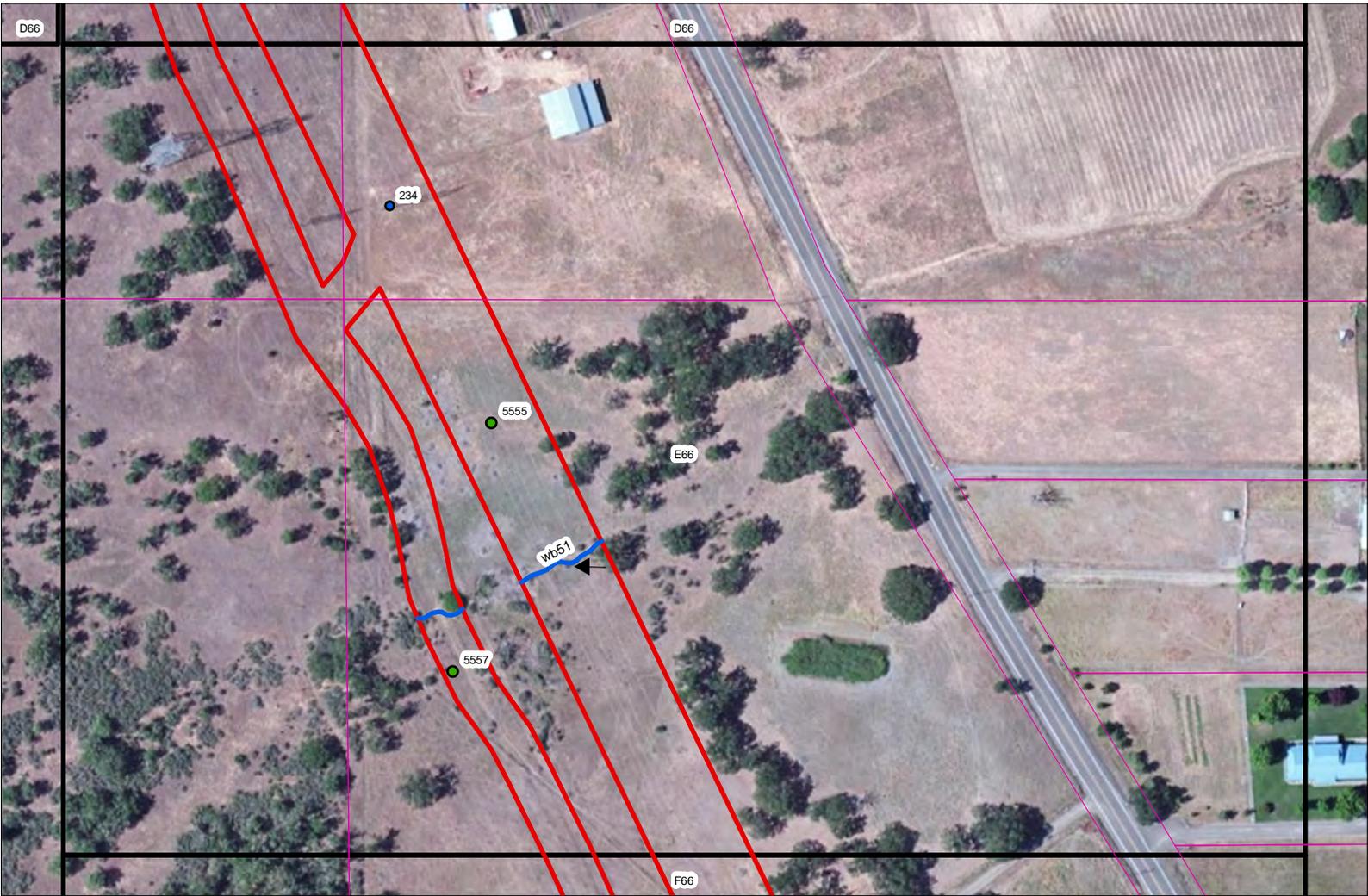
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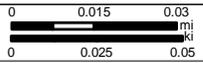
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D66  
 Page 131 of 154





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-  Study Area
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-  Non-Waters of the U.S.
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-  Tax Lots

E66  
 Page 132 of 154







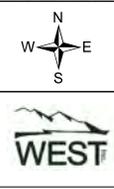
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**Jackson and Josphine, OR**

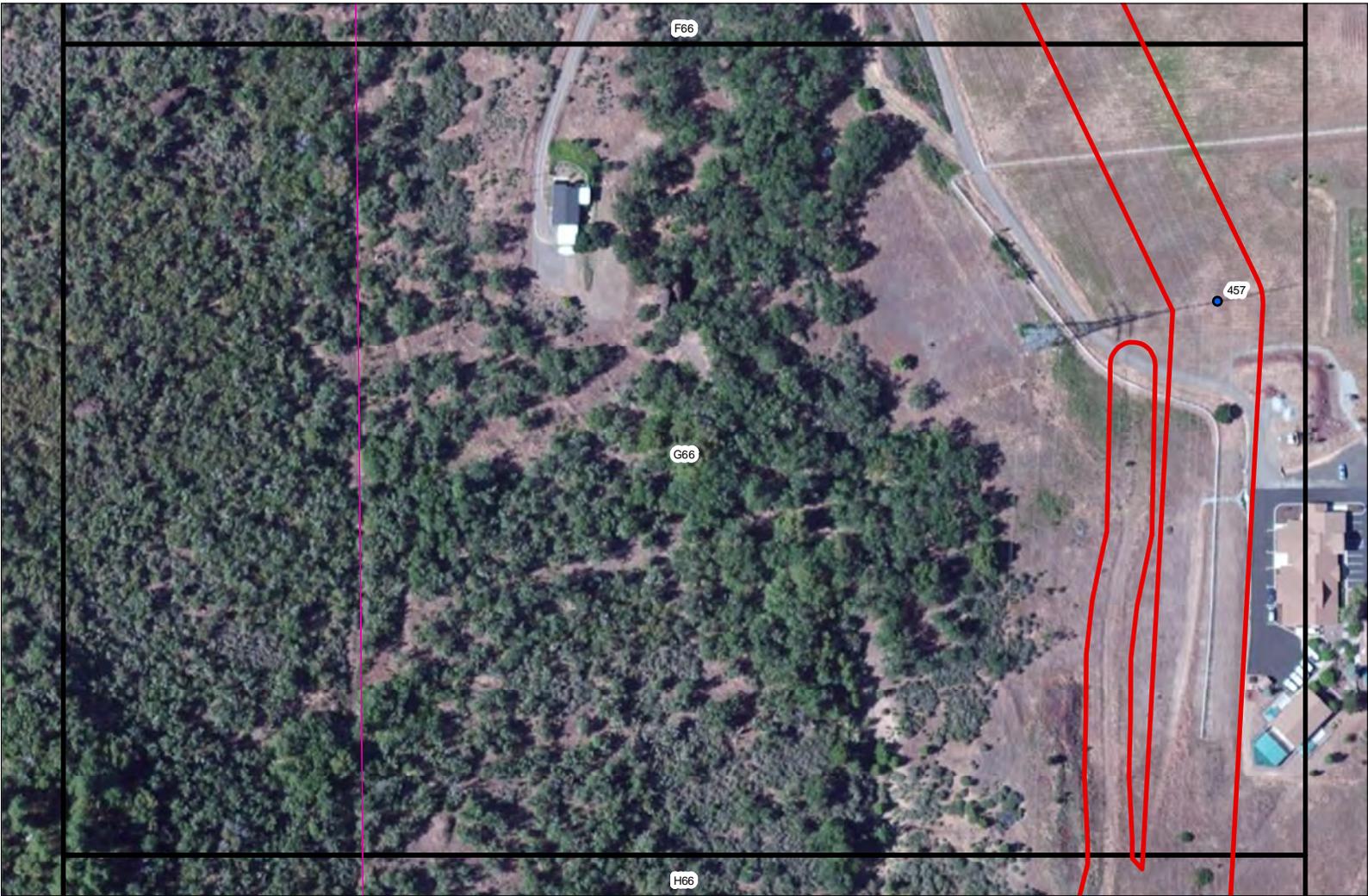
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 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
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-  Waters of the U.S.
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-  Photo Location/Direction
-  Tax Lots

F66  
 Page 133 of 154



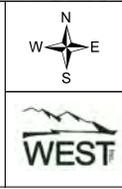


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**Jackson and Josphine, OR**  
 Data Source: World Imagery  
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 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
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-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

G66  
Page 134 of 154



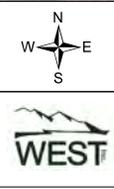


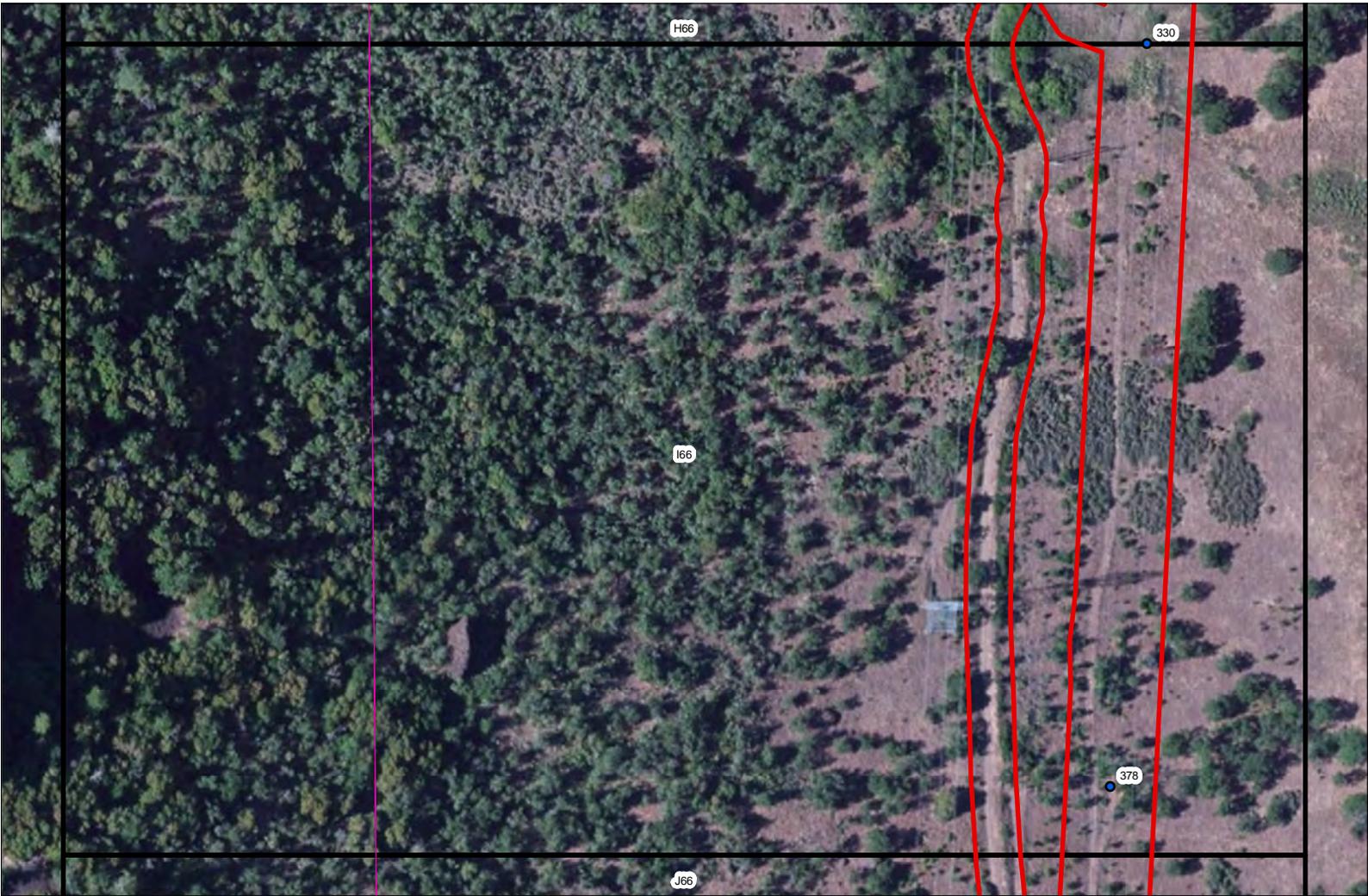
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**Jackson and Josphine, OR**  
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 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

H66  
Page 135 of 154

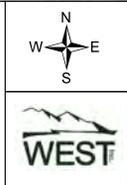


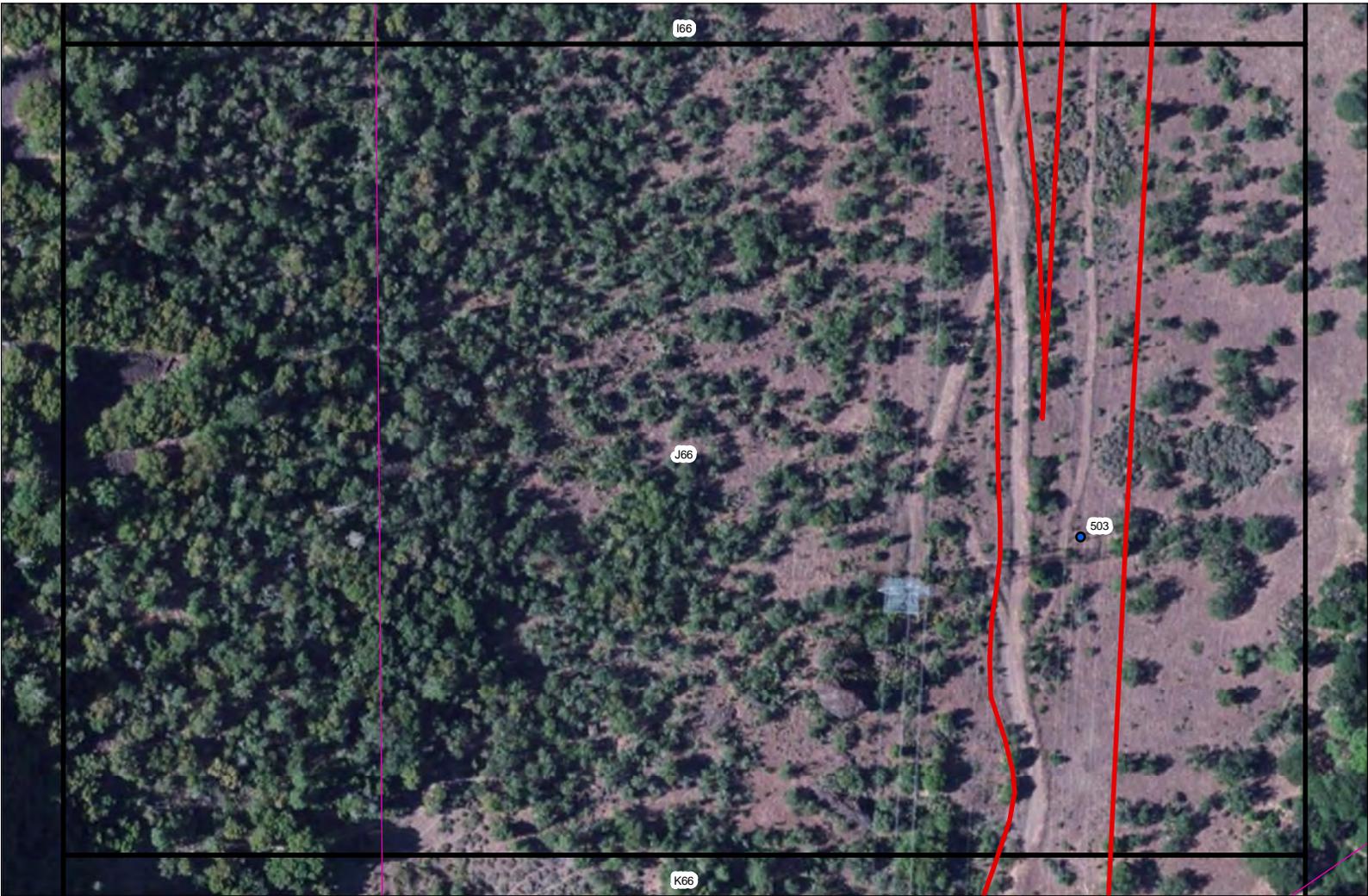


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**Jackson and Josphine, OR**  
Data Source: World Imagery  
Coordinate System: NAD 83 UTM Zone 10  
Date: 12/27/2017  
Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots



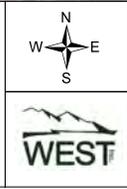


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

J66  
Page 137 of 154





**Sam's Valley Project**  
**Jackson and Josphine, OR**

Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

K66  
 Page 138 of 154



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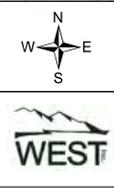
**Sam's Valley Project**  
Jackson and Josphine, OR

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Date: 12/27/2017  
Author: Troy Rintz

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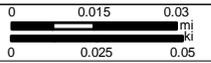
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

L66  
Page 139 of 154



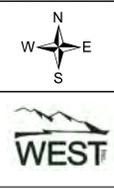


**Sam's Valley Project**  
**Jackson and Josphine, OR**  
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 Author: Troy Rintz



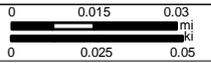
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

L67  
 Page 140 of 154





**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

M67  
 Page 141 of 154



M67



O69

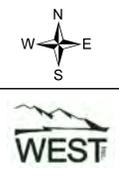


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**Jackson and Josphine, OR**  
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 Date: 12/27/2017  
 Author: Troy Rintz



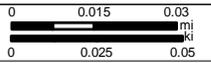
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

N68  
 Page 142 of 154





**Sam's Valley Project**  
**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz



-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

O69  
 Page 143 of 154





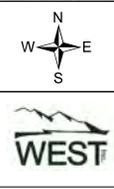


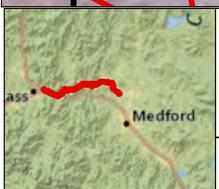
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**Jackson and Josphine, OR**  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
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 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

P69  
 Page 144 of 154





**Sam's Valley Project**  
**Jackson and Josphine, OR**

Data Source: World Imagery  
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 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

O70  
 Page 145 of 154



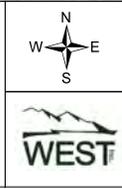


**Sam's Valley Project**  
**Jackson and Josephine, OR**

Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

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-  Study Area
-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots



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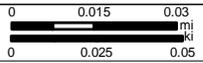
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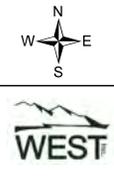


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-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

Q70  
 Page 147 of 154



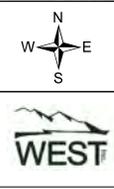


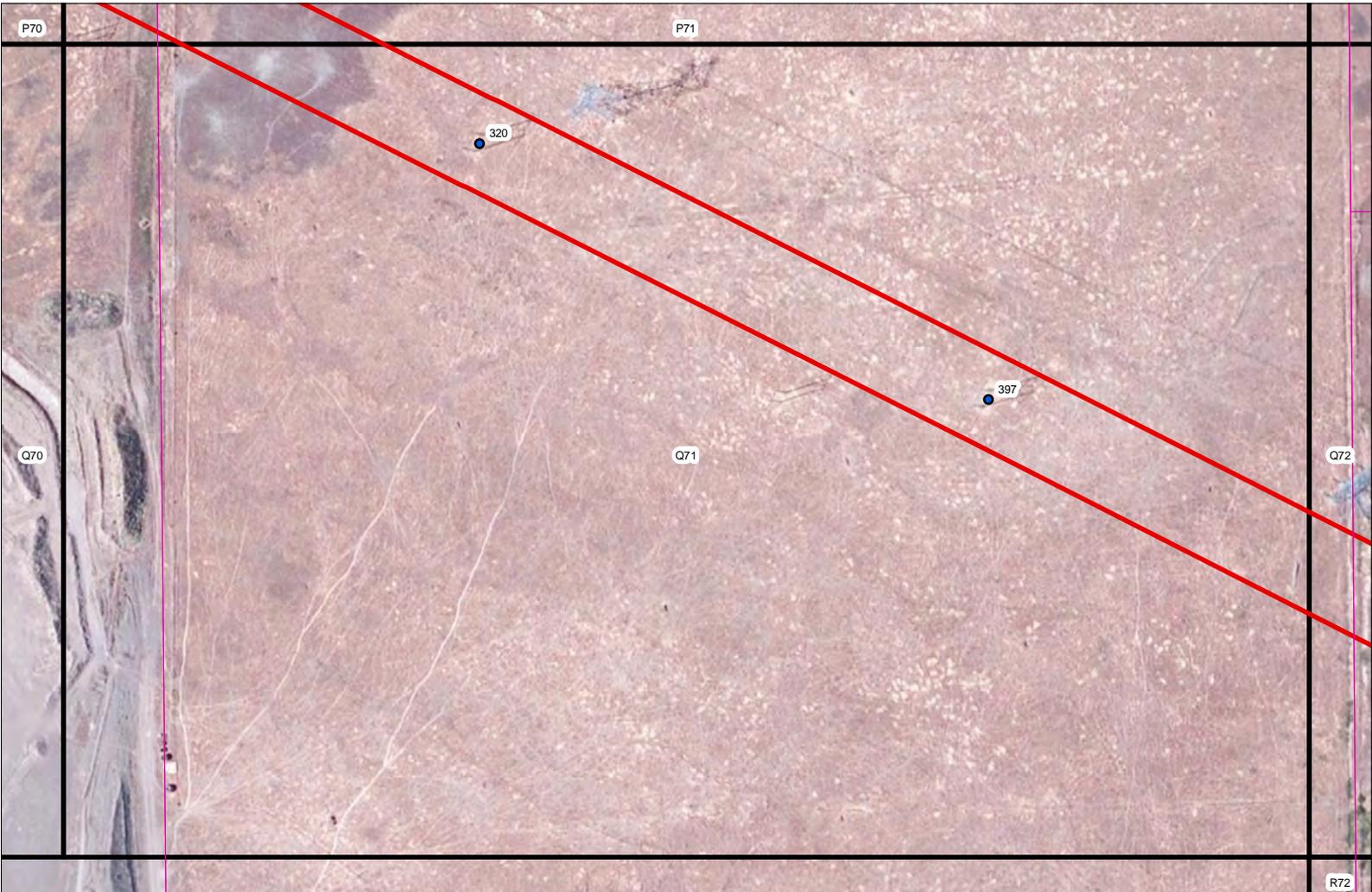
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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

P71  
 Page 148 of 154



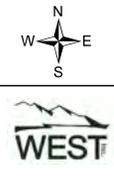


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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

Q71  
 Page 149 of 154



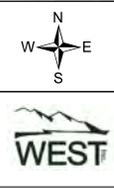


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-  Transmission Structure
-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

Q72  
 Page 150 of 154



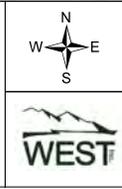


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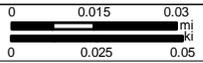
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-  Waters of the U.S.
-  Non-Waters of the U.S.
-  Photo Location/Direction
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R72  
Page 151 of 154



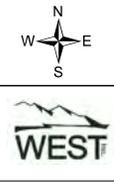


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-  Non-Waters of the U.S.
-  Photo Location/Direction
-  Tax Lots

S72  
 Page 152 of 154



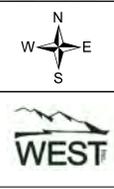


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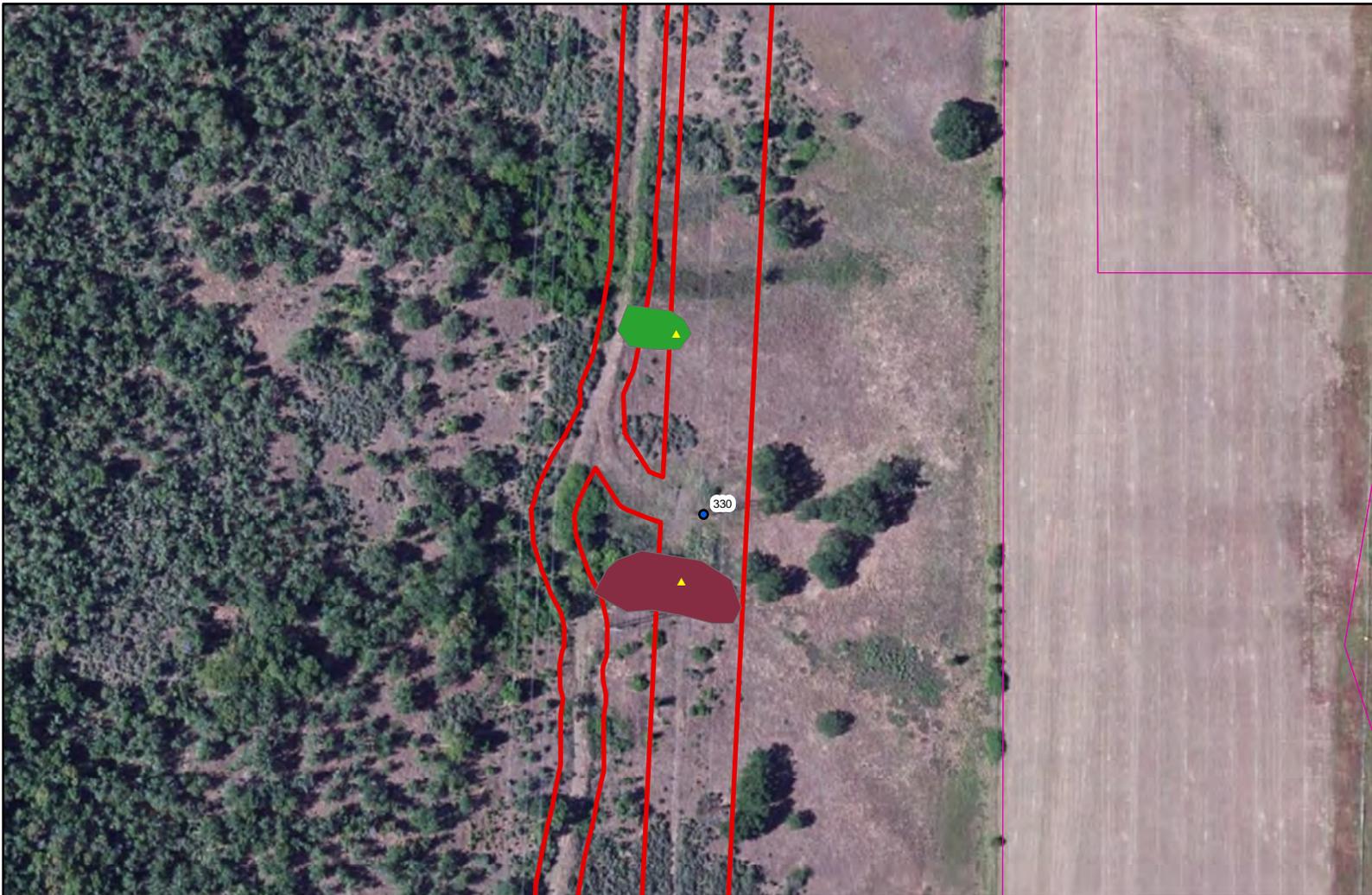
-  Study Area
-  Transmission Structure
-  Waters of the U.S.
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-  Tax Lots

S73  
Page 153 of 154





## **Appendix C. Figures Depicting Locations of Non-Wetlands**



**Sam's Valley Project**  
 Jackson and Josephine, OR  
 Data Source: World Imagery  
 Coordinate System: NAD 83 UTM Zone 10  
 Date: 12/27/2017  
 Author: Troy Rintz

0 0.04 0.08  
 0 0.065 0.13  
 mi  
 km

-  Study Area
-  Transmission Structure
- Deviation from NWI**
-  Determined non-wetland

- NWI Wetland Type**
-  Freshwater Emergent Wetland
  -  Freshwater Forested/Shrub Wetland
  -  Riverine
  -  Tax Lots

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**Appendix D. USACE Wetland Datasheets**

# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/8/17  
 Applicant/Owner: HDR State: OR Sampling Point: wl-1  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sec 16, T36S, R2W  
 Landform (hillslope, terrace, etc.): ditch Local relief (concave, convex, none): concave Slope (%): 2  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Vannoy silt loam, 12-35 percent south slopes NWI classification: PEM  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Remarks: wetlands occur along side slopes (fringe) of irrigation ditch on south side of road photo 5425					

## VEGETATION – Use scientific names of plants

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test Worksheet:</b>	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)
4. _____	_____	_____	_____		
50% = _____, 20% = _____	_____	= Total Cover			
<b>Sapling/Shrub Stratum (Plot size: _____)</b>				<b>Prevalence Index worksheet:</b>	
1. _____	_____	_____	_____	<u>Total % Cover of:</u>	<u>Multiply by:</u>
2. _____	_____	_____	_____	OBL species _____	x1 = _____
3. _____	_____	_____	_____	FACW species _____	x2 = _____
4. _____	_____	_____	_____	FAC species _____	x3 = _____
5. _____	_____	_____	_____	FACU species _____	x4 = _____
50% = _____, 20% = _____	_____	= Total Cover		UPL species _____	x5 = _____
<b>Herb Stratum (Plot size: _____)</b>				Column Totals: _____ (A)	_____ (B)
1. <u>Cyperus squarrosus</u>	<u>50</u>	<u>yes</u>	<u>OBL</u>	Prevalence Index = B/A = _____	
2. <u>Phalaris arundinacea</u>	<u>40</u>	<u>yes</u>	<u>FACW</u>		
3. <u>Rumex crispus</u>	<u>5</u>	<u>no</u>	<u>FAC</u>		
4. <u>Equisetum hymale</u>	<u>5</u>	<u>no</u>	<u>FACW</u>		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
50% = _____, 20% = _____	<u>100</u>	= Total Cover			
<b>Woody Vine Stratum (Plot size: _____)</b>				<b>Hydrophytic Vegetation Indicators:</b>	
1. _____	_____	_____	_____	<input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup> <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2. _____	_____	_____	_____	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
50% = _____, 20% = _____	_____	= Total Cover			
% Bare Ground in Herb Stratum <u>0</u>				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks:					

**SOIL**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10 YR 3/2	99	7.5YR 4/6	1	C	M	clay loam	
5-16	10YR 4/1	90	7.5YR 4/6	10	C	M	clay loam	
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

<sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1) **(except MLRA 1)**
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soils Present?** Yes  No

Remarks:

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- Salt Crust (B11)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Stunted or Stresses Plants (D1) **(LRR A)**
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water-Stained Leaves (B9) **(MLRA 1, 2, 4A, and 4B)**
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Saturation Visible on Aerial Imagery (C9)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)
- Raised Ant Mounds (D6) **(LRR A)**
- Frost-Heave Hummocks (D7)

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes  No  Depth (inches): \_\_\_\_\_  
 Saturation Present? (includes capillary fringe) Yes  No  Depth (inches): \_\_\_\_\_

**Wetland Hydrology Present?** Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/9/17  
 Applicant/Owner: HDR State: OR Sampling Point: wl-2  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sec 6, T36S, R2W  
 Landform (hillslope, terrace, etc.): drainage Local relief (concave, convex, none): concave Slope (%): 0  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Coker clay, 0-3 percent slopes/Carney clay, 1-5 percent slopes NWI classification: PEM  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Remarks: wetland spans drainage channel; hydrology likely associated with water backing into channel from artificial pond located approximately 100ft downstream photo 5536					

**VEGETATION – Use scientific names of plants**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	<b>Dominance Test Worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover	_____																	
<b>Sapling/Shrub Stratum (Plot size: _____)</b>				<b>Prevalence Index worksheet:</b>  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Total % Cover of:</u></td> <td style="text-align: center;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species _____</td> <td>x1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species _____	x1 = _____	FACW species _____	x2 = _____	FAC species _____	x3 = _____	FACU species _____	x4 = _____	UPL species _____	x5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL species _____	x1 = _____																			
FACW species _____	x2 = _____																			
FAC species _____	x3 = _____																			
FACU species _____	x4 = _____																			
UPL species _____	x5 = _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = _____																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover	_____																	
<b>Herb Stratum (Plot size: 10 ft radius)</b>																				
1. <u>Typha latifolia</u>	<u>50</u>	<u>yes</u>	<u>OBL</u>																	
2. <u>Eleocharis palustris</u>	<u>40</u>	<u>yes</u>	<u>OBL</u>																	
3. <u>Mentha arvensis</u>	<u>4</u>	<u>no</u>	<u>FACW</u>																	
4. <u>Alisma gramineum</u>	<u>1</u>	<u>no</u>	<u>OBL</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
50% = _____, 20% = _____	<u>100</u>	= Total Cover	_____																	
<b>Woody Vine Stratum (Plot size: _____)</b>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover	_____																	
% Bare Ground in Herb Stratum <u>0</u>																				
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup> <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																				
<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				

Remarks:



# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/9/17  
 Applicant/Owner: HDR State: OR Sampling Point: wl-3  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sce 6, T36S, R2W  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 0  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Coker clay, 0-3 percent slopes/Carney clay, 1-5 percent slopes NWI classification: PEM  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Remarks: wetland spans shallow, pond-like depression adjacent an artificial pond photo 5538					

## VEGETATION – Use scientific names of plants

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test Worksheet:</b>	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	1 (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	1 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B)
4. _____	_____	_____	_____		
50% = _____, 20% = _____	_____	= Total Cover			
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Prevalence Index worksheet:</b>	
1. _____	_____	_____	_____	<u>Total % Cover of:</u>	<u>Multiply by:</u>
2. _____	_____	_____	_____	OBL species _____	x1 = _____
3. _____	_____	_____	_____	FACW species _____	x2 = _____
4. _____	_____	_____	_____	FAC species _____	x3 = _____
5. _____	_____	_____	_____	FACU species _____	x4 = _____
50% = _____, 20% = _____	_____	= Total Cover		UPL species _____	x5 = _____
Herb Stratum (Plot size: 10 ft radius)	Absolute % Cover	Dominant Species?	Indicator Status	Column Totals: _____ (A)	_____ (B)
1. <u>Eleocharis palustris</u>	99	yes	OBL	Prevalence Index = B/A = _____	
2. <u>Mentha arvensis</u>	1	no	FACW		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
50% = _____, 20% = _____	100	= Total Cover			
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
50% = _____, 20% = _____	_____	= Total Cover			
% Bare Ground in Herb Stratum <u>0</u>					
Remarks:				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

**SOIL**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	<u>10 YR 3/1</u>	<u>95</u>	<u>7.5YR 4/6</u>	<u>5</u>	<u>C</u>	<u>M/PL</u>	<u>clay</u>	
5-16	<u>10YR 3/1</u>	<u>100</u>					<u>clay</u>	

# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/9/17  
 Applicant/Owner: HDR State: OR Sampling Point: wl-4a,b  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sec 1, T36S, R2W  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 0  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Camas-Newberg-Evans complex, 0-3 percent slopes NWI classification: PEM  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Remarks: wetlands occur in shallow depressions to either side of two-track road photo 5541					

### VEGETATION – Use scientific names of plants

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test Worksheet:</b>			
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>3</u> (A)		
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>3</u> (B)		
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)		
4. _____	_____	_____	_____				
50% = _____, 20% = _____	_____	= Total Cover					
Sapling/Shrub Stratum (Plot size: _____)				<b>Prevalence Index worksheet:</b>			
1. _____	_____	_____	_____	<u>Total % Cover of:</u>	<u>Multiply by:</u>		
2. _____	_____	_____	_____	OBL species _____	x1 = _____		
3. _____	_____	_____	_____	FACW species _____	x2 = _____		
4. _____	_____	_____	_____	FAC species _____	x3 = _____		
5. _____	_____	_____	_____	FACU species _____	x4 = _____		
50% = _____, 20% = _____	_____	= Total Cover		UPL species _____	x5 = _____		
Herb Stratum (Plot size: 10 ft radius)				Column Totals: _____ (A)	_____ (B)		
1. <u>Juncus effusus</u>	<u>40</u>	<u>yes</u>	<u>FACW</u>	Prevalence Index = B/A = _____			
2. <u>Rorippa sinuata</u>	<u>4</u>	<u>no</u>	<u>FACW</u>				
3. <u>Kickxia elatine</u>	<u>4</u>	<u>no</u>	<u>FAC</u>				
4. _____	_____	_____	_____				
5. _____	_____	_____	_____				
6. _____	_____	_____	_____				
7. _____	_____	_____	_____				
8. _____	_____	_____	_____				
9. _____	_____	_____	_____				
10. _____	_____	_____	_____				
11. _____	_____	_____	_____				
50% = _____, 20% = _____	<u>48</u>	= Total Cover					
Woody Vine Stratum (Plot size: _____)				<b>Hydrophytic Vegetation Indicators:</b>			
1. _____	_____	_____	_____	<input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup> <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2. _____	_____	_____	_____	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
50% = _____, 20% = _____	_____	= Total Cover					
% Bare Ground in Herb Stratum <u>52</u>				<b>Hydrophytic Vegetation Present?</b>			
				Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>

Remarks:



# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/10/17  
 Applicant/Owner: HDR State: OR Sampling Point: wl-5  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sce 32, T35S, R2W  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 0  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Coker clay, 0-3 percent slopes NWI classification: PEM  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Remarks: wetland occurs in a depressional area within a hay meadow; depressional area abuts a paved road surface and likely receives runoff from the road photo 5548					

**VEGETATION – Use scientific names of plants**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:																
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover		<b>Prevalence Index worksheet:</b>  <table style="width: 100%;"> <tr> <td style="text-align: center;"><u>Total % Cover of:</u></td> <td style="text-align: center;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species _____</td> <td>x1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species _____	x1 = _____	FACW species _____	x2 = _____	FAC species _____	x3 = _____	FACU species _____	x4 = _____	UPL species _____	x5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL species _____	x1 = _____																			
FACW species _____	x2 = _____																			
FAC species _____	x3 = _____																			
FACU species _____	x4 = _____																			
UPL species _____	x5 = _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = _____																				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover																		
<u>Herb Stratum</u> (Plot size: <u>10 ft radius</u> )																				
1. <u>Rumex crispus</u>	<u>25</u>	<u>yes</u>	<u>FACW</u>																	
2. <u>Rorippa sinuata</u>	<u>25</u>	<u>yes</u>	<u>FACW</u>																	
3. <u>Plagiobothrys scouleri</u>	<u>20</u>	<u>yes</u>	<u>FACW</u>																	
4. <u>Eleocharis palustris</u>	<u>10</u>	<u>no</u>	<u>OBL</u>																	
5. <u>Myosurus minimus</u>	<u>10</u>	<u>no</u>	<u>OBL</u>																	
6. <u>Unknown forb</u>	<u>10</u>	<u>no</u>	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
50% = _____, 20% = _____	<u>100</u>	= Total Cover																		
<u>Woody Vine Stratum</u> (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover																		
% Bare Ground in Herb Stratum <u>0</u>																				
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is $\leq 3.0^1$ <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup> <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																				
<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				

Remarks:



# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/10/17  
 Applicant/Owner: HDR State: OR Sampling Point: wl-6  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sec 15, T36S, R2W  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 0  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Agate-Winlo complex, 0-5 percent slopes NWI classification: PEM  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Remarks: wetland occurs in a depression on the floodplain of the Rogue River (possible vernal pool) photo 5570					

### VEGETATION – Use scientific names of plants

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test Worksheet:</b>			
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)		
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>2</u> (B)		
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)		
4. _____	_____	_____	_____				
50% = _____, 20% = _____	_____	= Total Cover					
Sapling/Shrub Stratum (Plot size: _____)				<b>Prevalence Index worksheet:</b>			
1. _____	_____	_____	_____	<u>Total % Cover of:</u>	<u>Multiply by:</u>		
2. _____	_____	_____	_____	OBL species _____	x1 = _____		
3. _____	_____	_____	_____	FACW species _____	x2 = _____		
4. _____	_____	_____	_____	FAC species _____	x3 = _____		
5. _____	_____	_____	_____	FACU species _____	x4 = _____		
50% = _____, 20% = _____	_____	= Total Cover		UPL species _____	x5 = _____		
Herb Stratum (Plot size: 10 ft radius)				Column Totals: _____ (A)	_____ (B)		
1. <u>Polygonum aviculare</u>	<u>30</u>	<u>yes</u>	<u>FAC</u>	Prevalence Index = B/A = _____			
2. <u>Plagiobothrys scouleri</u>	<u>25</u>	<u>yes</u>	<u>FACW</u>				
3. _____	_____	_____	_____				
4. _____	_____	_____	_____				
5. _____	_____	_____	_____				
6. _____	_____	_____	_____				
7. _____	_____	_____	_____				
8. _____	_____	_____	_____				
9. _____	_____	_____	_____				
10. _____	_____	_____	_____				
11. _____	_____	_____	_____				
50% = _____, 20% = _____	<u>55</u>	= Total Cover					
Woody Vine Stratum (Plot size: _____)				<b>Hydrophytic Vegetation Indicators:</b>			
1. _____	_____	_____	_____	<input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup> <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2. _____	_____	_____	_____	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
50% = _____, 20% = _____	_____	= Total Cover					
% Bare Ground in Herb Stratum <u>45</u>				<b>Hydrophytic Vegetation Present?</b>			
				Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>

Remarks:

**SOIL**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10 YR 3/1	80	7.5YR 4/4	20	C	M/PL	gravelly loam	
10+							clay	

<sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1) **(except MLRA 1)**
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

**Hydric Soils Present?** Yes  No

Remarks: clay hardpan encountered at a depth of 10 inches in the soil profile

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- Salt Crust (B11)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Stunted or Stresses Plants (D1) **(LRR A)**
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water-Stained Leaves (B9) **(MLRA 1, 2, 4A, and 4B)**
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Saturation Visible on Aerial Imagery (C9)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)
- Raised Ant Mounds (D6) **(LRR A)**
- Frost-Heave Hummocks (D7)

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes  No  Depth (inches): \_\_\_\_\_  
 Saturation Present? (includes capillary fringe) Yes  No  Depth (inches): \_\_\_\_\_

**Wetland Hydrology Present?** Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/10/17  
 Applicant/Owner: HDR State: OR Sampling Point: wl-7  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sec 15, T36S, R2W  
 Landform (hillslope, terrace, etc.): drainage swale Local relief (concave, convex, none): concave Slope (%): 2  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Agate-Winlo complex, 0-5 percent slopes NWI classification: PEM  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Remarks: wetland spans broad, excavated ditch; ditch appears to provide for drainage from nearby quarry ponds photo 5577					

## VEGETATION – Use scientific names of plants

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:																
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover		<b>Prevalence Index worksheet:</b>  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Total % Cover of:</u></td> <td style="text-align: center;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species _____</td> <td>x1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species _____	x1 = _____	FACW species _____	x2 = _____	FAC species _____	x3 = _____	FACU species _____	x4 = _____	UPL species _____	x5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL species _____	x1 = _____																			
FACW species _____	x2 = _____																			
FAC species _____	x3 = _____																			
FACU species _____	x4 = _____																			
UPL species _____	x5 = _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = _____																				
<u>Sapling/Shrub Stratum (Plot size: 10ft radius)</u>																				
1. <u>Salix laevigata</u>	<u>5</u>	<u>yes</u>	<u>FACW</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
50% = _____, 20% = _____	<u>5</u>	= Total Cover																		
<u>Herb Stratum (Plot size: 10 ft radius)</u>																				
1. <u>Eleocharis palustris</u>	<u>80</u>	<u>yes</u>	<u>OBL</u>																	
2. <u>Mentha arvensis</u>	<u>15</u>	<u>no</u>	<u>FACW</u>																	
3. <u>Alopecurus pratensis</u>	<u>5</u>	<u>no</u>	<u>FAC</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
50% = _____, 20% = _____	<u>100</u>	= Total Cover																		
<u>Woody Vine Stratum (Plot size: _____)</u>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover																		
% Bare Ground in Herb Stratum <u>0</u>																				
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is $\leq 3.0^1$ <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup> <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																				
<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				

Remarks:

**SOIL**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	<u>10 YR 3/2</u>	<u>90</u>	<u>7.5YR 4/6</u>	<u>10</u>	<u>C</u>	<u>M</u>	<u>clay loam</u>	
4-16	<u>10YR 5/2</u>	<u>90</u>	<u>7.5YR 4/6</u>	<u>10</u>	<u>C</u>	<u>M</u>	<u>clay</u>	
_____	_____	_____	_____	_____	_____	_____	_____	
_____	_____	_____	_____	_____	_____	_____	_____	
_____	_____	_____	_____	_____	_____	_____	_____	
_____	_____	_____	_____	_____	_____	_____	_____	
_____	_____	_____	_____	_____	_____	_____	_____	
<sup>1</sup> Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix								
<b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>						<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>		
<input type="checkbox"/> Histosol (A1)			<input type="checkbox"/> Sandy Redox (S5)			<input type="checkbox"/> 2 cm Muck (A10)		
<input type="checkbox"/> Histic Epipedon (A2)			<input type="checkbox"/> Stripped Matrix (S6)			<input type="checkbox"/> Red Parent Material (TF2)		
<input type="checkbox"/> Black Histic (A3)			<input type="checkbox"/> Loamy Mucky Mineral (F1) <b>(except MLRA 1)</b>			<input type="checkbox"/> Very Shallow Dark Surface (TF12)		
<input type="checkbox"/> Hydrogen Sulfide (A4)			<input type="checkbox"/> Loamy Gleyed Matrix (F2)			<input type="checkbox"/> Other (Explain in Remarks)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)			<input checked="" type="checkbox"/> Depleted Matrix (F3)			<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
<input type="checkbox"/> Thick Dark Surface (A12)			<input checked="" type="checkbox"/> Redox Dark Surface (F6)					
<input type="checkbox"/> Sandy Mucky Mineral (S1)			<input type="checkbox"/> Depleted Dark Surface (F7)					
<input type="checkbox"/> Sandy Gleyed Matrix (S4)			<input type="checkbox"/> Redox Depressions (F8)					
<b>Restrictive Layer (if present):</b>								
Type: _____								
Depth (inches): _____					<b>Hydric Soils Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Remarks:    clay hardpan encountered at a depth of 10 inches in the soil profile								

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Water-Stained Leaves (B9)	
<input type="checkbox"/> High Water Table (A2)	<b>(except MLRA 1, 2, 4A, and 4B)</b>	<b>(MLRA 1, 2, 4A, and 4B)</b>	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stresses Plants (D1) <b>(LRR A)</b>	<input type="checkbox"/> Raised Ant Mounds (D6) <b>(LRR A)</b>	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
<b>Field Observations:</b>			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	_____
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	_____
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	_____
		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/10/17  
 Applicant/Owner: HDR State: OR Sampling Point: wl-8a-d  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sec 15, T36S, R2W  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 0  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Agate-Winlo complex, 0-5 percent slopes NWI classification: PEM  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>		
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Remarks: wetlands occur in a series of depressions (4) on the floodplain of the Rogue River photos 5579, 5580, 5581, 5586					

### VEGETATION – Use scientific names of plants

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:																
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover		<b>Prevalence Index worksheet:</b>  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Total % Cover of:</u></td> <td style="text-align: center;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species _____</td> <td>x1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species _____	x1 = _____	FACW species _____	x2 = _____	FAC species _____	x3 = _____	FACU species _____	x4 = _____	UPL species _____	x5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL species _____	x1 = _____																			
FACW species _____	x2 = _____																			
FAC species _____	x3 = _____																			
FACU species _____	x4 = _____																			
UPL species _____	x5 = _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = _____																				
<u>Sapling/Shrub Stratum (Plot size: _____)</u>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover																		
<u>Herb Stratum (Plot size: 10 ft radius)</u>																				
1. <u>Hordeum jubatum</u>	<u>50</u>	<u>yes</u>	<u>FAC</u>																	
2. <u>Eleocharis palustris</u>	<u>40</u>	<u>yes</u>	<u>OBL</u>																	
3. <u>Polygonum aviculare</u>	<u>10</u>	<u>no</u>	<u>FAC</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
50% = _____, 20% = _____	<u>100</u>	= Total Cover																		
<u>Woody Vine Stratum (Plot size: _____)</u>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover																		
% Bare Ground in Herb Stratum <u>45</u>																				
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup> <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																				
<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																				
<b>Hydrophytic Vegetation Present?</b>																				
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				

Remarks:

**SOIL**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10 YR 3/1	95	7.5YR 4/4	5	C	M	loam	
10-16	10YR 4/1	95	7.5YR 4/4	5	C	M	clay loam	
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

<sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1) **(except MLRA 1)**
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soils Present?** Yes  No

Remarks:

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- Salt Crust (B11)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Stunted or Stresses Plants (D1) **(LRR A)**
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water-Stained Leaves (B9) **(MLRA 1, 2, 4A, and 4B)**
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Saturation Visible on Aerial Imagery (C9)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)
- Raised Ant Mounds (D6) **(LRR A)**
- Frost-Heave Hummocks (D7)

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes  No  Depth (inches): \_\_\_\_\_  
 Saturation Present? (includes capillary fringe) Yes  No  Depth (inches): 10

**Wetland Hydrology Present?** Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/8/17  
 Applicant/Owner: HDR State: OR Sampling Point: upl-1  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sec 16, T36S, R2W  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 2  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Vannoy silt loam, 12-35 percent south slopes NWI classification: UPL  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Remarks: sample point located on top of ditch bank; area had been mowed prior to survey photo: 5426					

**VEGETATION – Use scientific names of plants**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:																
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover		<b>Prevalence Index worksheet:</b>  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Total % Cover of:</u></td> <td style="text-align: center;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species _____</td> <td>x1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species _____	x1 = _____	FACW species _____	x2 = _____	FAC species _____	x3 = _____	FACU species _____	x4 = _____	UPL species _____	x5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL species _____	x1 = _____																			
FACW species _____	x2 = _____																			
FAC species _____	x3 = _____																			
FACU species _____	x4 = _____																			
UPL species _____	x5 = _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = _____																				
<u>Sapling/Shrub Stratum (Plot size: 10ft radius)</u>																				
1. <u>Rubus armeniacus</u>	<u>10</u>	<u>yes</u>	<u>FAC</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
50% = _____, 20% = _____	<u>10</u>	= Total Cover																		
<u>Herb Stratum (Plot size: 10ft radius)</u>																				
1. <u>Cynosurus echinatus</u>	<u>45</u>	<u>yes</u>	<u>UPL</u>																	
2. <u>Dactylis glomerata</u>	<u>35</u>	<u>yes</u>	<u>FACU</u>																	
3. <u>Plantago virginica</u>	<u>10</u>	<u>no</u>	<u>FACU</u>																	
4. <u>Avena sativa</u>	<u>7</u>	<u>no</u>	<u>UPL</u>																	
5. <u>Daucus carota</u>	<u>3</u>	<u>no</u>	<u>FACU</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
50% = _____, 20% = _____	<u>100</u>	= Total Cover																		
<u>Woody Vine Stratum (Plot size: _____)</u>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover																		
% Bare Ground in Herb Stratum <u>0</u>																				
<table style="width: 100%; border: none;"> <tr> <td style="width: 60%;"><b>Hydrophytic Vegetation Present?</b></td> <td style="width: 10%;">Yes <input type="checkbox"/></td> <td style="width: 10%;">No <input checked="" type="checkbox"/></td> </tr> </table>				<b>Hydrophytic Vegetation Present?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>														
<b>Hydrophytic Vegetation Present?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>																		
Remarks:																				

**SOIL**

Sampling Point: upl-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-16	7.5 YR 4/4	100	_____	_____	_____	_____	clay loam	_____
_____	-	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

<sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1) **(except MLRA 1)**
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soils Present?**      Yes       No

Remarks:

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- Salt Crust (B11)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Stunted or Stresses Plants (D1) **(LRR A)**
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water-Stained Leaves (B9) **(MLRA 1, 2, 4A, and 4B)**
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Saturation Visible on Aerial Imagery (C9)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)
- Raised Ant Mounds (D6) **(LRR A)**
- Frost-Heave Hummocks (D7)

**Field Observations:**

Surface Water Present?    Yes     No     Depth (inches): \_\_\_\_\_  
 Water Table Present?    Yes     No     Depth (inches): \_\_\_\_\_  
 Saturation Present?  
 (includes capillary fringe)    Yes     No     Depth (inches): \_\_\_\_\_

**Wetland Hydrology Present?**      Yes       No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/9/17  
 Applicant/Owner: HDR State: OR Sampling Point: upl-2  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sec 6, T36S, R2W  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 1  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Coker clay, 0-3 percent slopes NWI classification: UPL  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Remarks: sample point located in meadow adjacent drainage photo: 5537					

**VEGETATION – Use scientific names of plants**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test Worksheet:</b>	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A/B)
4. _____	_____	_____	_____		
50% = _____, 20% = _____	_____	= Total Cover			
<b>Sapling/Shrub Stratum (Plot size: _____)</b>				<b>Prevalence Index worksheet:</b>	
1. _____	_____	_____	_____	<u>Total % Cover of:</u>	<u>Multiply by:</u>
2. _____	_____	_____	_____	OBL species _____	x1 = _____
3. _____	_____	_____	_____	FACW species _____	x2 = _____
4. _____	_____	_____	_____	FAC species _____	x3 = _____
5. _____	_____	_____	_____	FACU species _____	x4 = _____
50% = _____, 20% = _____	_____	= Total Cover		UPL species _____	x5 = _____
<b>Herb Stratum (Plot size: 10ft radius)</b>				Column Totals: _____ (A)	_____ (B)
1. <u>Festuca subulata</u>	<u>75</u>	<u>yes</u>	<u>FACU</u>	Prevalence Index = B/A = _____	
2. <u>Alopecurus pratensis</u>	<u>15</u>	<u>no</u>	<u>FAC</u>		
3. <u>Juncus confusus</u>	<u>10</u>	<u>no</u>	<u>FAC</u>		
4. <u>Dipsacus fullonum</u>	<u>5</u>	<u>no</u>	<u>FAC</u>		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
50% = _____, 20% = _____	<u>100</u>	= Total Cover			
<b>Woody Vine Stratum (Plot size: _____)</b>				<b>Hydrophytic Vegetation Indicators:</b>	
1. _____	_____	_____	_____	<input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation	
2. _____	_____	_____	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
50% = _____, 20% = _____	_____	= Total Cover		<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
% Bare Ground in Herb Stratum <u>0</u>				<input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
				<input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup>	
				<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
				<b>Hydrophytic Vegetation Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks:

**SOIL**

Sampling Point: upl-2

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-16	10YR 3/2	100	_____	_____	_____	_____	clay	_____
_____	-	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

<sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1) **(except MLRA 1)**
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soils Present?** Yes  No

Remarks:

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- Salt Crust (B11)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Stunted or Stresses Plants (D1) **(LRR A)**
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water-Stained Leaves (B9) **(MLRA 1, 2, 4A, and 4B)**
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Saturation Visible on Aerial Imagery (C9)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)
- Raised Ant Mounds (D6) **(LRR A)**
- Frost-Heave Hummocks (D7)

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes  No  Depth (inches): \_\_\_\_\_  
 Saturation Present? (includes capillary fringe) Yes  No  Depth (inches): \_\_\_\_\_

**Wetland Hydrology Present?** Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/9/17  
 Applicant/Owner: HDR State: OR Sampling Point: upl-3  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sec 6, T36S, R2W  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 1  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Coker clay, 0-3 percent slopes NWI classification: UPL  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Remarks: sample point located in meadow adjacent wetland depression photo: 5539					

**VEGETATION – Use scientific names of plants**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test Worksheet:</b>	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	1 (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	2 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	50 (A/B)
4. _____	_____	_____	_____		
50% = _____, 20% = _____	_____	= Total Cover			
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Prevalence Index worksheet:</b>	
1. _____	_____	_____	_____	<u>Total % Cover of:</u>	<u>Multiply by:</u>
2. _____	_____	_____	_____	OBL species _____	x1 = _____
3. _____	_____	_____	_____	FACW species _____	x2 = _____
4. _____	_____	_____	_____	FAC species _____	x3 = _____
5. _____	_____	_____	_____	FACU species _____	x4 = _____
50% = _____, 20% = _____	_____	= Total Cover		UPL species _____	x5 = _____
Herb Stratum (Plot size: 10ft radius)	Absolute % Cover	Dominant Species?	Indicator Status	Column Totals: _____ (A)	_____ (B)
1. <u><i>Alopecurus pratensis</i></u>	58	yes	FAC	Prevalence Index = B/A = _____	
2. <u><i>Festuca subulata</i></u>	26	yes	FACU		
3. <u><i>Dipsacus fullonum</i></u>	15	no	FAC		
4. <u><i>Mentha arvensis</i></u>	1	no	FACW		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
50% = _____, 20% = _____	100	= Total Cover			
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
50% = _____, 20% = _____	_____	= Total Cover			
% Bare Ground in Herb Stratum <u>0</u>					
Remarks:				<b>Hydrophytic Vegetation Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

**SOIL**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-16	10YR 3/1	100	_____	_____	_____	_____	clay	_____
_____	-	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

<sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1) **(except MLRA 1)**
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soils Present?**      Yes      No  

Remarks:

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- Salt Crust (B11)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Stunted or Stresses Plants (D1) **(LRR A)**
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water-Stained Leaves (B9) **(MLRA 1, 2, 4A, and 4B)**
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Saturation Visible on Aerial Imagery (C9)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)
- Raised Ant Mounds (D6) **(LRR A)**
- Frost-Heave Hummocks (D7)

**Field Observations:**

Surface Water Present?    Yes      No       Depth (inches): \_\_\_\_\_  
 Water Table Present?    Yes      No       Depth (inches): \_\_\_\_\_  
 Saturation Present?  
 (includes capillary fringe)    Yes      No       Depth (inches): \_\_\_\_\_

**Wetland Hydrology Present?**      Yes      No  

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/9/17  
 Applicant/Owner: HDR State: OR Sampling Point: upl-4  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sec 1, T36S, R2W  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 1  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Camas-Newberg-Evans complex, 0-3 percent slopes NWI classification: UPL  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Remarks: sample point located in grassland adjacent wetland depressions photo: 5544					

**VEGETATION – Use scientific names of plants**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test Worksheet:</b>	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A/B)
4. _____	_____	_____	_____		
50% = _____, 20% = _____	_____	= Total Cover			
<b>Sapling/Shrub Stratum (Plot size: _____)</b>				<b>Prevalence Index worksheet:</b>	
1. _____	_____	_____	_____	<u>Total % Cover of:</u>	<u>Multiply by:</u>
2. _____	_____	_____	_____	OBL species _____	x1 = _____
3. _____	_____	_____	_____	FACW species _____	x2 = _____
4. _____	_____	_____	_____	FAC species _____	x3 = _____
5. _____	_____	_____	_____	FACU species _____	x4 = _____
50% = _____, 20% = _____	_____	= Total Cover		UPL species _____	x5 = _____
<b>Herb Stratum (Plot size: 10ft radius)</b>				Column Totals: _____ (A)	_____ (B)
1. <u>Cynosurus echinatus</u>	<u>50</u>	<u>yes</u>	<u>UPL</u>	Prevalence Index = B/A = _____	
2. <u>Taeniatherum caput-medusae</u>	<u>45</u>	<u>yes</u>	<u>UPL</u>	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup> <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
3. <u>Plantago virginica</u>	<u>5</u>	<u>no</u>	<u>FACU</u>		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
50% = _____, 20% = _____	<u>100</u>	= Total Cover			
<b>Woody Vine Stratum (Plot size: _____)</b>				<b>Hydrophytic Vegetation Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
50% = _____, 20% = _____	_____	= Total Cover			
% Bare Ground in Herb Stratum <u>0</u>					

Remarks:



# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/10/17  
 Applicant/Owner: HDR State: OR Sampling Point: upl-5  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sec 32, T35S, R2W  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Coker clay, 0-3 percent slopes NWI classification: UPL  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Remarks: sample point located in meadow adjacent wetland depression photo: 5549					

### VEGETATION – Use scientific names of plants

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:																
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover		<b>Prevalence Index worksheet:</b>  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Total % Cover of:</u></td> <td style="text-align: center;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species _____</td> <td>x1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species _____	x1 = _____	FACW species _____	x2 = _____	FAC species _____	x3 = _____	FACU species _____	x4 = _____	UPL species _____	x5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL species _____	x1 = _____																			
FACW species _____	x2 = _____																			
FAC species _____	x3 = _____																			
FACU species _____	x4 = _____																			
UPL species _____	x5 = _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = _____																				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover																		
<u>Herb Stratum</u> (Plot size: 10ft radius)																				
1. <u><i>Alopecurus pratensis</i></u>	<u>45</u>	<u>yes</u>	<u>FAC</u>																	
2. <u><i>Taeniatherum caput-medusae</i></u>	<u>45</u>	<u>yes</u>	<u>UPL</u>																	
3. <u><i>Festuca pratensis</i></u>	<u>10</u>	<u>no</u>	<u>FACU</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
50% = _____, 20% = _____	<u>100</u>	= Total Cover																		
<u>Woody Vine Stratum</u> (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover																		
% Bare Ground in Herb Stratum <u>0</u>																				
<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup> <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																				
<b>Hydrophytic Vegetation Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																				

Remarks:



# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/10/17  
 Applicant/Owner: HDR State: OR Sampling Point: upl-6, upl-7  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sec 15, T36S, R2W  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Agate-Winlo complex, 0-5 percent slopes NWI classification: UPL  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Remarks: sample point located on floodplain of Rogue River, adjacent shallow wetland depressions and excavated ditch photo: 5578					

**VEGETATION – Use scientific names of plants**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:																
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover		<b>Prevalence Index worksheet:</b>  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Total % Cover of:</u></td> <td style="text-align: center;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species _____</td> <td>x1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species _____	x1 = _____	FACW species _____	x2 = _____	FAC species _____	x3 = _____	FACU species _____	x4 = _____	UPL species _____	x5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL species _____	x1 = _____																			
FACW species _____	x2 = _____																			
FAC species _____	x3 = _____																			
FACU species _____	x4 = _____																			
UPL species _____	x5 = _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = _____																				
<b>Sapling/Shrub Stratum (Plot size: _____)</b>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover																		
<b>Herb Stratum (Plot size: 10ft radius)</b>																				
1. <u>Centaurea solstitialis</u>	<u>40</u>	<u>yes</u>	<u>UPL</u>																	
2. <u>Cichorium intybus</u>	<u>30</u>	<u>yes</u>	<u>FACU</u>																	
3. <u>Elymus trachycaulus</u>	<u>20</u>	<u>yes</u>	<u>FACU</u>																	
4. <u>Taeniatherum caput-medusae</u>	<u>10</u>	<u>no</u>	<u>UPL</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
50% = _____, 20% = _____	<u>100</u>	= Total Cover																		
<b>Woody Vine Stratum (Plot size: _____)</b>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover																		
% Bare Ground in Herb Stratum <u>0</u>																				
<table style="width: 100%; border: none;"> <tr> <td style="width: 60%;"><b>Hydrophytic Vegetation Present?</b></td> <td style="width: 10%;">Yes <input type="checkbox"/></td> <td style="width: 10%;">No <input checked="" type="checkbox"/></td> </tr> </table>				<b>Hydrophytic Vegetation Present?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>														
<b>Hydrophytic Vegetation Present?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>																		
Remarks:																				



# WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project Site: Sam's Valley Transmission City/County: Jackson/ Sampling Date: 11/10/17  
 Applicant/Owner: HDR State: OR Sampling Point: upl-8  
 Investigator(s): Kurt Flaig, Klarissa Lawrence Section, Township, Range: Sec 15, T36S, R2W  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0  
 Subregion (LRR): A Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: NAD 83  
 Soil Map Unit Name: Agate-Winlo complex, 0-5 percent slopes NWI classification: UPL  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Remarks: sample point located on floodplain of Rogue River, adjacent shallow wetland depressions; area appears to have experienced surface disturbance associated with quarry operations. photo: no photo available					

**VEGETATION – Use scientific names of plants**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test Worksheet:</b>			
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	1 (A)		
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	3 (B)		
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	33 (A/B)		
4. _____	_____	_____	_____				
50% = _____, 20% = _____	_____	= Total Cover					
Sapling/Shrub Stratum (Plot size: _____)				<b>Prevalence Index worksheet:</b>			
1. _____	_____	_____	_____	<u>Total % Cover of:</u>	<u>Multiply by:</u>		
2. _____	_____	_____	_____	OBL species _____	x1 = _____		
3. _____	_____	_____	_____	FACW species _____	x2 = _____		
4. _____	_____	_____	_____	FAC species _____	x3 = _____		
5. _____	_____	_____	_____	FACU species _____	x4 = _____		
50% = _____, 20% = _____	_____	= Total Cover		UPL species _____	x5 = _____		
Herb Stratum (Plot size: 10ft radius)				Column Totals: _____ (A)	_____ (B)		
1. <u>Centaurea solstitialis</u>	40	yes	UPL	Prevalence Index = B/A = _____			
2. <u>Cichorium intybus</u>	30	yes	FACU	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup> <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3. <u>Elymus trachycaulus</u>	20	yes	FACU				
4. <u>Taeniatherum caput-medusae</u>	10	no	UPL				
5. _____	_____	_____	_____				
6. _____	_____	_____	_____				
7. _____	_____	_____	_____				
8. _____	_____	_____	_____				
9. _____	_____	_____	_____				
10. _____	_____	_____	_____				
11. _____	_____	_____	_____				
50% = _____, 20% = _____	100	= Total Cover					
Woody Vine Stratum (Plot size: _____)				<b>Hydrophytic Vegetation Present?</b>			
1. _____	_____	_____	_____			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2. _____	_____	_____	_____				
50% = _____, 20% = _____	_____	= Total Cover					
% Bare Ground in Herb Stratum <u>0</u>							

Remarks:

**SOIL**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	<u>10YR 4/3</u>	<u>100</u>	_____	_____	_____	_____	<u>gravelly</u> <small>loam</small>	
6-16	<u>10YR 3/2</u>	<u>100</u>	_____	_____	_____	_____	<u>clay loam</u>	
_____	_____	_____	_____	_____	_____	_____	_____	
_____	_____	_____	_____	_____	_____	_____	_____	
_____	_____	_____	_____	_____	_____	_____	_____	
_____	_____	_____	_____	_____	_____	_____	_____	
_____	_____	_____	_____	_____	_____	_____	_____	
<sup>1</sup> Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix								
<b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>						<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>		
<input type="checkbox"/> Histosol (A1)			<input type="checkbox"/> Sandy Redox (S5)			<input type="checkbox"/> 2 cm Muck (A10)		
<input type="checkbox"/> Histic Epipedon (A2)			<input type="checkbox"/> Stripped Matrix (S6)			<input type="checkbox"/> Red Parent Material (TF2)		
<input type="checkbox"/> Black Histic (A3)			<input type="checkbox"/> Loamy Mucky Mineral (F1) <b>(except MLRA 1)</b>			<input type="checkbox"/> Very Shallow Dark Surface (TF12)		
<input type="checkbox"/> Hydrogen Sulfide (A4)			<input type="checkbox"/> Loamy Gleyed Matrix (F2)			<input type="checkbox"/> Other (Explain in Remarks)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)			<input type="checkbox"/> Depleted Matrix (F3)			<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
<input type="checkbox"/> Thick Dark Surface (A12)			<input type="checkbox"/> Redox Dark Surface (F6)					
<input type="checkbox"/> Sandy Mucky Mineral (S1)			<input type="checkbox"/> Depleted Dark Surface (F7)					
<input type="checkbox"/> Sandy Gleyed Matrix (S4)			<input type="checkbox"/> Redox Depressions (F8)					
<b>Restrictive Layer (if present):</b>								
Type: _____								
Depth (inches): _____					<b>Hydric Soils Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Remarks:								

**HYDROLOGY**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Water-Stained Leaves (B9)	
<input type="checkbox"/> High Water Table (A2)	<b>(except MLRA 1, 2, 4A, and 4B)</b>	<b>(MLRA 1, 2, 4A, and 4B)</b>	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stresses Plants (D1) <b>(LRR A)</b>	<input type="checkbox"/> Raised Ant Mounds (D6) <b>(LRR A)</b>	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
<b>Field Observations:</b>			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	_____
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	_____
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	_____
		<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

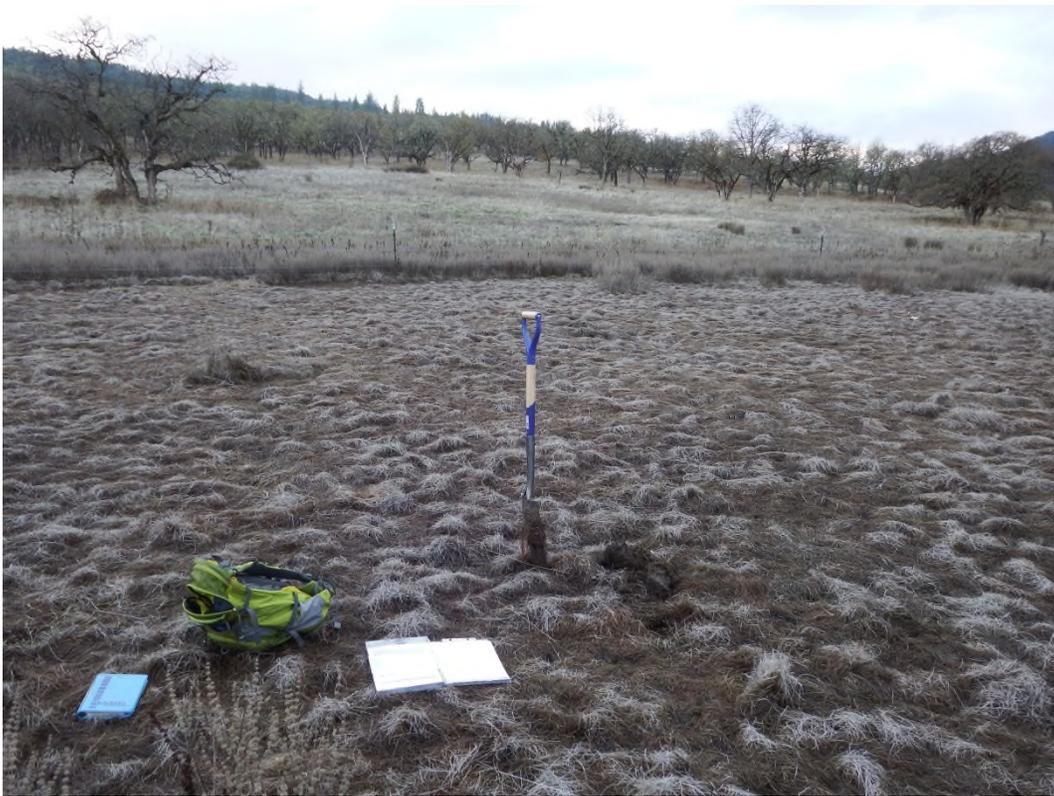
## **Appendix E. Wetland Photographs**



Wetland 1: Photo direction southwest.



Wetland 2: Photo direction north.



Wetland 3: Photo direction west.



Wetland 4: Photo direction west.



Wetland 6: Photo direction northwest.



Wetland 7: Photo direction north.



Wetland 8a: Photo direction north.



Wetland 8b: Photo direction northwest.



Wetland 8c: Photo direction northwest.



Wetland 8d: Photo direction northwest.

## **Appendix F. Waterbody Photographs**



Waterbody 1: Photo direction southwest.



Waterbody 2: Photo direction southwest.



Waterbody 3: Photo direction south.



Waterbody 4: Photo direction south.



Waterbody 5: Photo direction west.



Waterbody 6: Photo direction south.



Waterbody 7: Photo direction south.



Waterbody 8: Photo direction south.



Waterbody 9: Photo direction south.



Waterbody 10: Photo direction southwest.



Waterbody 11: Photo direction east.



Waterbody 12: Photo direction south.



Waterbody 13: Photo direction south.



Waterbody 14: Photo direction south.



Waterbody 15: Photo direction south.



Waterbody 16: Photo direction southwest.



Waterbody 17: Photo direction south.



Waterbody 18: Photo direction southeast.



Waterbody 19: Photo direction southeast.



Waterbody 20: Photo direction south.



Waterbody 21: Photo direction southeast.



Waterbody 22: Photo direction southeast.



Waterbody 23: Photo direction southeast.



Waterbody 24: Photo direction north.



Waterbody 25: Photo direction south (photo includes WL-1).



Waterbody 26: Photo direction southeast.



Waterbody 27: Photo direction southwest.



Waterbody 28: Photo direction southeast.



Waterbody 29: Photo direction south.



Waterbody 30: Photo direction southeast.



Waterbody 31: Photo direction southeast.



Waterbody 32: Photo direction south.



Waterbody 33: Photo direction southeast.



Waterbody 34: Photo direction southeast.



Waterbody 35: Photo direction south.



Waterbody 36: Photo direction south.



Waterbody 37: Photo direction southeast.



Waterbody 38: Photo direction south.



Waterbody 39: Photo direction south.



Waterbody 40: Photo direction east.



Waterbody 41: Photo direction southeast.



Waterbody 42: Photo direction south.



Waterbody 43: Photo direction south.



Waterbody 44: Photo direction south.



Waterbody 45: Photo direction south.



Waterbody 46: Photo direction northwest.



Waterbody 47: Photo direction northeast.



Waterbody 48: Photo direction east.



Waterbody 49: Photo direction northwest.



Waterbody 50: Photo direction north.



Waterbody 51: Photo direction east.



Waterbody 52: Photo direction north.