

THE WETLAND CORPS



Wetland Delineation • Habitat Management Plans • Riparian Restoration • Mitigation • Biological Evaluations
Eastside Division - (509) 899-0355 Westside Division - (360) 620-0618

WETLAND INVENTORY OF STARLIGHT PROPERTY Ellensburg, Washington

**Prepared For:
Encompass Engineering
December 10, 2006**

**Prepared By:
J.R. Gilbert
Plant Ecologist
Agricultural Wetland Specialist
The Wetland Corps**

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Kittitas County CDS

Field Delineation

Methodology used for wetland delineation (if necessary) is consistent with the technical approaches articulated in the 1987 Corps of Engineers (COE) Manual and in the 1997 Washington State Wetlands Identification and Delineation Manual. These documents are the wetland delineation manuals that are used in determining wetland areas when applying federal, state and local government regulations under the Clean Water Act (Section 404), the Shoreline Management Act and the Growth Management Act in Washington State.

The project site field work was conducted over the course of four days in November and December 2006. A general field review of this property was also performed (Wetland Corps 2005) in May of 2005, as part of a feasibility study with the former land owner. Field work (2006) was conducted under cloudy skies with an ambient temperature ranging between 30 and 40 degrees Fahrenheit. The time of year and recent precipitation history was considered in assessing the type and extent of any wetlands existing on site.

Specific field methodology used in determining the extent and location of wetland areas include:

- As part of the initial project site reconnaissance, the site was walked to determine the general extent and location of potential wetland areas in relation to property boundaries.
- Potential wetland and upland sample plots were established in the identified potential wetland areas and in the adjacent upland area; and
- Potential wetland boundaries (if identified) were delineated with flagging, by noting localized topography and vegetation patterns and comparing parameters of hydrology, soil, and vegetation with data collected at the wetland and upland sample plots.

WETLAND EVALUATION

The project area was investigated; soil, vegetation and hydrologic data were collected at twenty-two sample plot locations. Data collected at each sample plot was entered onto a Routine Wetland Determination Data Form (Washington State Department of Ecology 1997). (Appendix B).

Any wetlands identified on the property would be classified and rated using the categories set forth in *Washington State Wetland Rating System, Eastern Washington, 2nd Edition*, or as amended hereafter (Department of Ecology 1993). This wetland evaluation would use the new rating manual, *Washington State Wetland Rating System for Eastern Washington* (Hruby 2004). This system identifies various complexities within wetland structures, habitat attributes and various functions associated with wetlands.

National Wetlands Inventory

The USFWS NWI map - Online wetlands mapper shows potential wetlands on the subject property. (Appendix A)

NRCS / USDA Online Soil Survey – No information available

WETLAND INVENTORY RESULTS

Data was collected at twenty two sample plot locations within potential wetland areas and adjacent known uplands. Suspected wetland areas included any portion of the site containing hydrophytic vegetation. The sample plots would normally be staked, flagged, and labeled with numbered ribbons for identification (DP 1, 1a 2, 2 a, 3, 3a, etc...), but the presence of cattle on the property at the time of soil pit excavation, prevented staking and labeling the pits. The pits were also filled in after soil data was recorded, to eliminate any possible liability to the Wetland Corps. However, all soil pits are located and labeled on the attached Data Points Map (Appendix C). For each soil pit dug (1.) in a potential wetland area (based on topography and vegetation), a corresponding soil pit was dug in a known upland (1a).

- Soils

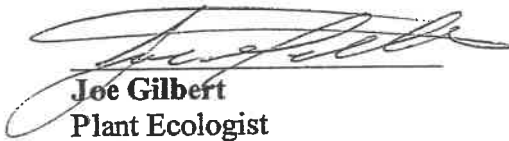
Soils inspected in soil pits ranged from 10YR 2/2 to 10YR 4/4 and 7.5YR 2.5/2 to 7.5YR 2.5/3. The Soil Survey of Kittitas County is not published and there is no available soil information. Information collected in most soil pits was fairly consistent, revealing dry to moist silt loams, cobbly silt loams, silt clay loams, fine sandy loams and sandy clay loams. These soils are underlain by a wavy loamy-gravel-cobble lens, which varied in depth from 14" to 18". None of the soil pits down to 14 inches showed any significant indicators of wetland hydrology, except for pits dug directly in irrigation ditches, in which soils had hydric characteristics. Pits dug in irrigation ditches, serve as reference points, to help determine what conditions to look for in other portions of the property. Data points in potential wetland areas were located at the point of lowest general topography. No data points revealed outside of irrigation ditches revealed any saturated soils or standing water. Soil pits near head ditches and near or in the most heavily irrigated portions revealed common, fine and faint/distinct mottling with a matrix of 5YR 4/6. Mottling of the soil is indicative of a fluctuating water table, and Gleyed soil is indicative of areas of long term saturation, neither of these soil conditions is predominant.

- Hydrology

This ownership is located within proximity of Cascade Canal. The property receives irrigation flows from the canal, via a made-made ditch system. Overall, there is a general rise in the water-table in the Kittitas Valley during the irrigation season. This water-table rise is considered natural and the "normal circumstance" of the environment. Areas of land that are directly affected by high water table which results in wetland conditions are valid and are regulated. Hydrology that clearly results from surface irrigation flows, can be shut off and hydrological connectivity is ceased. Therefore, wetland-like areas created from this conveyance are not regulated. No inundation or standing water in pits was observed.

We trust this information is sufficient for your needs at this time. Thank you for choosing The Wetland Corps as your environmental consultant. If you have any questions feel free to call. (509) 899-0355

Respectfully submitted,



Joe Gilbert
Plant Ecologist
Senior Wetland Specialist

Figure 1a, 1b, 1c: Property Maps

FIGURE 1b: PROPERTY MAP

120°33'1"W



Subject Property

Ac 58.7

PIONEER

BENDER

WATER

120°33'34"W

120°33'29"W

120°33'24"W

120°33'19"W

120°33'14"W

120°33'9"W

120°33'6"W

120°33'4"W

120°33'1"W

47°1'44"N
47°1'43"N
47°1'41"N
47°1'39"N
47°1'37"N
47°1'35"N
47°1'34"N
47°1'32"N
47°1'30"N
47°1'28"N
47°1'26"N
47°1'25"N
47°1'23"N
47°1'21"N
47°1'19"N
47°1'17"N
47°1'16"N

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FIGURE 1b PROPERTY MAP
Project Name: Starlight Property
Location: Ellensburg, Washington
Project: "C:\Projects\Starlight\PropMap2.pdf"
Client: Starlight
Date: December 2, 2006



0 75 150 300 Feet
1 inch equals 333.3 feet



Appendix A: NWI Maps

120°33'24" **FIGURE 1b: NWI MAP** 120°33'11" W



Subject Property

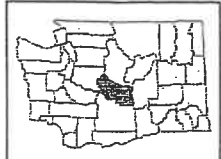
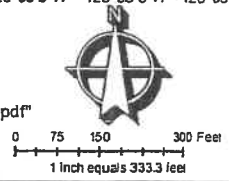
Ac:58.7

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FIGURE 1b NWI MAP
 Project Name: Starlight Property
 Location: Ellensburg, Washington
 Project: "C:\Projects\Starlight\NWIMap2.pdf"
 Client: Starlight
 Date: December 2, 2006



Appendix B: Routine Wetland Determination Data Forms

SOILS:

Map Unit Name (Series and Phase) : Unknown
 Taxonomy (subgroup)

Drainage Class: Unknown

Field observations confirm mapped type? N/A

| Profile Description | | Matrix color (Munsell moist) | Mottle colors (Munsell moist) | Mottle abundance size and contrast | Texture, concretions, structure, etc. | Drawing of soil profile (match description) |
|---------------------|---------|---------------------------------|----------------------------------|---------------------------------------|--|--|
| Depth (inches) | Horizon | | | | | |
| 0-10 | | 5YR 3/3 | 5YR 4/6 | F, F, D | Silt loam | |
| 10-16 | | 7.5YR 2.5/3 | | | Silt Clay loam | |
| 16+ | | | | | Gravelly sandy loam | |
| | | | | | | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Matrix chroma \leq 2 with mottles |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> Mg or Fe Concretions |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> High Organic Content in Surface Layer of Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National/Local Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma (=1) matrix | <input type="checkbox"/> Other (explain in remarks) |

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary indicators present

Wetland Determination

- | | | |
|---|------------------------------|--|
| Hydrophytic vegetation present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Hydric soils present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Wetland hydrology present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the sampling point within a wetland? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

Rationale/Remarks: Negative for all three parameters

NOTES: Located in between irrigation ditches

Revised 4/97

SOILS

Map Unit Name (Series and Phase) : Unknown
 Taxonomy (subgroup)

Drainage Class: Unknown
 Field observations confirm mapped type? N/A

| Profile Description | | Matrix color (Munsell moist) | Mottle colors (Munsell moist) | Mottle abundance size and contrast | Texture, concretions, structure, etc. | Drawing of soil profile (match description) |
|---------------------|---------|---------------------------------|----------------------------------|---------------------------------------|--|--|
| Depth (inches) | Horizon | | | | | |
| 0-12 | | 10 YR 3/3 | | | Sandy Clay Loam | |
| 12+ | | 10 YR 3/3 | | | Gravelly loam | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Matrix chroma \leq 2 with mottles |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> Mg or Fe Concretions |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> High Organic Content in Surface Layer of Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National/Local Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma (=1) matrix | <input type="checkbox"/> Other (explain in remarks) |

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary or Secondary indicators present

Wetland Determination

- | | | |
|---|------------------------------|--|
| Hydrophytic vegetation present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Hydric soils present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Wetland hydrology present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the sampling point within a wetland? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

Rationale/Remarks: Negative for all three parameters

NOTES: Known upland

Revised 4/97

SOILS

Map Unit Name (Series and Phase): Unknown
 Taxonomy (subgroup)

Drainage Class: Unknown

Field observations confirm mapped type? N/A

| Profile Description | | Matrix color (Munsell moist) | Mottle colors (Munsell moist) | Mottle abundance size and contrast | Texture, concretions, structure, etc. | Drawing of soil profile (match description) |
|---------------------|---------|---------------------------------|----------------------------------|---------------------------------------|--|--|
| Depth (inches) | Horizon | | | | | |
| 0-14 | | 10 YR 3/3 | | | Sandy Clay Loam | |
| 14+ | | | | | Gravelly loam | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Matrix chroma \leq 2 with mottles |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> Mg or Fe Concretions |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> High Organic Content in Surface Layer of Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National/Local Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma (=1) matrix | <input type="checkbox"/> Other (explain in remarks) |

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary or Secondary indicators present

Wetland Determination

- | | | |
|---|------------------------------|--|
| Hydrophytic vegetation present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Hydric soils present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Wetland hydrology present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the sampling point within a wetland? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

Rationale/Remarks: Negative for all three parameters

NOTES: Within NWI, appears to be upland

Revised 4/97

SOILS:

Map Unit Name (Series and Phase) : Unknown
 Taxonomy (subgroup)

Drainage Class: Unknown
 Field observations confirm mapped type? N/A

| Profile Description | | Matrix color (Munsell moist) | Mottle colors (Munsell moist) | Mottle abundance size and contrast | Texture, concretions, structure, etc. | Drawing of soil profile (match description) |
|---------------------|---------|---------------------------------|----------------------------------|---------------------------------------|--|--|
| Depth (inches) | Horizon | | | | | |
| 0-14 | | 10 YR 3/3 | | | Sandy Loam | |
| 14+ | | | | | Gravelly loam | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Matrix chroma \leq 2 with mottles |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> Mg or Fe Concretions |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> High Organic Content in Surface Layer of Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National/Local Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma (=1) matrix | <input type="checkbox"/> Other (explain in remarks) |

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary or Secondary indicators present

Wetland Determination

- | | | |
|---|------------------------------|--|
| Hydrophytic vegetation present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Hydric soils present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Wetland hydrology present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the sampling point within a wetland? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

Rationale/Remarks: Negative for all three parameters

NOTES: Known Upland

Revised 4/97

SOILS

Map Unit Name (Series and Phase): Unknown
 Taxonomy (subgroup)

Drainage Class: Unknown
 Field observations confirm mapped type? N/A

| Profile Description | | Matrix color (Munsell moist) | Mottle colors (Munsell moist) | Mottle abundance size and contrast | Texture, concretions, structure, etc. | Drawing of soil profile (match description) |
|---------------------|---------|---------------------------------|----------------------------------|---------------------------------------|--|--|
| Depth (inches) | Horizon | | | | | |
| 0-8 | | 10 YR 2/2 | | | Silt Loam | |
| 8-16 | | | | | Silt clay Loam | |
| 16+ | | | | | Gravelly loam | |
| | | | | | | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- Histosol
- Histic Epipedon
- Sulfidic Odor
- Aquic Moisture Regime
- Reducing Conditions
- Gleyed or Low-Chroma (=1) matrix

- Matrix chroma ≤ 2 with mottles
- Mg or Fe Concretions
- High Organic Content in Surface Layer of Sandy Soils
- Organic Streaking in Sandy Soils
- Listed on National/Local Hydric Soils List
- Other (explain in remarks)

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary or Secondary indicators present

Wetland Determination

- Hydrophytic vegetation present? Yes No
- Hydric soils present? Yes No
- Wetland hydrology present? Yes No
- Is the sampling point within a wetland? Yes No

Rationale/Remarks: Negative for all three parameters

NOTES:

Revised 4/97

SOILS:

Map Unit Name (Series and Phase): Unknown
 Taxonomy (subgroup)

Drainage Class: Unknown
 Field observations confirm mapped type? N/A

| Profile Description | | Matrix color (Munsell moist) | Mottle colors (Munsell moist) | Mottle abundance size and contrast | Texture, concretions, structure, etc. | Drawing of soil profile (match description) |
|---------------------|---------|---------------------------------|----------------------------------|---------------------------------------|--|--|
| Depth (inches) | Horizon | | | | | |
| 0-8 | | 10 YR 2/2 | | | Silt Loam | |
| 8-16 | | | | | Silt clay Loam | |
| 16+ | | | | | Gravelly loam | |
| | | | | | | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Matrix chroma \leq 2 with mottles |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> Mg or Fe Concretions |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> High Organic Content in Surface Layer of Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National/Local Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma (=1) matrix | <input type="checkbox"/> Other (explain in remarks) |

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary or Secondary indicators present

Wetland Determination

- | | | |
|---|------------------------------|--|
| Hydrophytic vegetation present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Hydric soils present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Wetland hydrology present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the sampling point within a wetland? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

Rationale/Remarks: Negative for all three parameters

NOTES:

Revised 4/97

SOILS :

Map Unit Name (Series and Phase) : Unknown
 Taxonomy (subgroup)

Drainage Class: Unknown

Field observations confirm mapped type? N/A

| Profile Description | | Matrix color (Munsell moist) | Mottle colors (Munsell moist) | Mottle abundance size and contrast | Texture, concretions, structure, etc. | Drawing of soil profile (match description) |
|---------------------|---------|---------------------------------|----------------------------------|---------------------------------------|--|--|
| Depth (inches) | Horizon | | | | | |
| 0-12 | | 10 YR 3/3 | | | Silt Loam | |
| 12+ | | 7.5YR 2.5/3 | | | Sandy clay Loam | |
| 12+ | | | | | Gravelly loam | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Matrix chroma ≤ 2 with mottles |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> Mg or Fe Concretions |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> High Organic Content in Surface Layer of Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National/Local Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma (=1) matrix | <input type="checkbox"/> Other (explain in remarks) |

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary or Secondary indicators present

Wetland Determination

- | | | |
|---|------------------------------|--|
| Hydrophytic vegetation present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Hydric soils present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Wetland hydrology present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the sampling point within a wetland? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

Rationale/Remarks: Negative for all three parameters

NOTES:

Revised 4/97

SOILS

Map Unit Name (Series and Phase): Unknown
 Taxonomy (subgroup)

Drainage Class: Unknown

Field observations confirm mapped type? N/A

| Profile Description | | | | | | Drawing of soil profile (match description) |
|---------------------|---------|---------------------------------|----------------------------------|---------------------------------------|--|--|
| Depth (inches) | Horizon | Matrix color (Munsell moist) | Mottle colors (Munsell moist) | Mottle abundance size and contrast | Texture, concretions, structure, etc. | |
| 0-8 | | 10 YR 3/3 | | | Silt Loam | |
| 8-14 | | 10 YR 4/6 | | | Sandy clay Loam | |
| 14+ | | | | | Gravelly loam | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Matrix chroma \leq 2 with mottles |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> Mg or Fe Concretions |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> High Organic Content in Surface Layer of Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National/Local Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma (=1) matrix | <input type="checkbox"/> Other (explain in remarks) |

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary or Secondary indicators present

Wetland Determination

- Hydrophytic vegetation present? Yes No
- Hydric soils present? Yes No
- Wetland hydrology present? Yes No
- Is the sampling point within a wetland? Yes No

Rationale/Remarks: Negative for all three parameters

NOTES:

Revised 4/97

SOILS

Map Unit Name (Series and Phase): Unknown
 Taxonomy (subgroup)

Drainage Class: Unknown

Field observations confirm mapped type? N/A

Profile Description

| Depth (inches) | Horizon | Matrix color (Munsell moist) | Mottle colors (Munsell moist) | Mottle abundance size and contrast | Texture, concretions, structure, etc. | Drawing of soil profile (match description) |
|----------------|---------|------------------------------|-------------------------------|------------------------------------|---------------------------------------|---|
| 0-15 | | 10 YR 3/3 | | | Sandy Clay Loam | |
| 15+ | | | | | Gravelly loam | |
| | | | | | | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Matrix chroma ≤ 2 with mottles |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> Mg or Fe Concretions |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> High Organic Content in Surface Layer of Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National/Local Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma (=1) matrix | <input type="checkbox"/> Other (explain in remarks) |

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary or Secondary indicators present

Wetland Determination

- Hydrophytic vegetation present? Yes No
- Hydric soils present? Yes No
- Wetland hydrology present? Yes No
- Is the sampling point within a wetland? Yes No

Rationale/Remarks: Negative for two of three parameters

NOTES:

Revised 4/97

SOILS:

Map Unit Name (Series and Phase) : Unknown
 Taxonomy (subgroup)

Drainage Class: Unknown

Field observations confirm mapped type? N/A

| Profile Description | | Matrix color (Munsell moist) | Mottle colors (Munsell moist) | Mottle abundance size and contrast | Texture, concretions, structure, etc. | Drawing of soil profile (match description) |
|---------------------|---------|---------------------------------|----------------------------------|---------------------------------------|--|--|
| Depth (inches) | Horizon | | | | | |
| 0-8 | | 10YR 3/2 | | | Silt loam | |
| 8-14 | | 10YR 3/3 | | | Sandy Clay Loam | |
| 14+ | | | | | Gravel -Cobble | |
| | | | | | | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Matrix chroma \leq 2 with mottles |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> Mg or Fe Concretions |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> High Organic Content in Surface Layer of Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National/Local Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma (=1) matrix | <input type="checkbox"/> Other (explain in remarks) |

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary or Secondary indicators present

Wetland Determination

- Hydrophytic vegetation present? Yes No
- Hydric soils present? Yes No
- Wetland hydrology present? Yes No
- Is the sampling point within a wetland? Yes No

Rationale/Remarks: Negative for all three parameters

NOTES: Located just above irrigated depression

Revised 4/97

SOILS

Map Unit Name (Series and Phase) : Unknown
 Taxonomy (subgroup)

Drainage Class: Unknown
 Field observations confirm mapped type? N/A

| Profile Description | | | | | | Drawing of soil profile (match description) |
|---------------------|---------|---------------------------------|----------------------------------|---------------------------------------|--|--|
| Depth (inches) | Horizon | Matrix color (Munsell moist) | Mottle colors (Munsell moist) | Mottle abundance size and contrast | Texture, concretions, structure, etc. | |
| 0-8 | | 7.5 YR 2.5/3 | | | Silt loam | |
| 8-16 | | 10YR 3/1 | | | Silt Clay Loam | |
| 16+ | | | | | Gravel -Cobble | |
| | | | | | | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Matrix chroma \leq 2 with mottles |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> Mg or Fe Concretions |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> High Organic Content in Surface Layer of Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National/Local Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma (=1) matrix | <input type="checkbox"/> Other (explain in remarks) |

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary or Secondary indicators present

Wetland Determination

- | | | |
|---|------------------------------|--|
| Hydrophytic vegetation present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Hydric soils present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Wetland hydrology present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the sampling point within a wetland? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

Rationale/Remarks: Negative for all three parameters

NOTES:

Revised 4/97

SOILS

Map Unit Name (Series and Phase): Unknown
 Taxonomy (subgroup)

Drainage Class: Unknown

Field observations confirm mapped type? N/A

| Profile Description | | Matrix color (Munsell moist) | Mottle colors (Munsell moist) | Mottle abundance size and contrast | Texture, concretions, structure, etc. | Drawing of soil profile (match description) |
|---------------------|---------|---------------------------------|----------------------------------|---------------------------------------|--|--|
| Depth (inches) | Horizon | | | | | |
| 0-6 | | 7.5 YR 2.5/3 | | | Silt loam | |
| 6-14 | | 10YR 3/3 | | | Sandy Clay Loam | |
| 14+ | | | | | Gravel -Cobble | |
| | | | | | | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Matrix chroma \leq 2 with mottles |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> Mg or Fe Concretions |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> High Organic Content in Surface Layer of Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National/Local Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma (=1) matrix | <input type="checkbox"/> Other (explain in remarks) |

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary or Secondary indicators present

Wetland Determination

- | | | |
|---|------------------------------|--|
| Hydrophytic vegetation present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Hydric soils present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Wetland hydrology present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Is the sampling point within a wetland? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

Rationale/Remarks: Negative for all three parameters

NOTES:

Revised 4/97

SOILS:

Map Unit Name (Series and Phase): Unknown
 Taxonomy (subgroup)

Drainage Class: Unknown

Field observations confirm mapped type? N/A

Profile Description

| Depth (inches) | Horizon | Matrix color (Munsell moist) | Mottle colors (Munsell moist) | Mottle abundance size and contrast | Texture, concretions, structure, etc. | Drawing of soil profile (match description) |
|----------------|---------|------------------------------|-------------------------------|------------------------------------|---------------------------------------|---|
| 0-8 | | 7.5 YR 2.5/3 | | | Silt loam | |
| 8-14 | | 10YR 3/1 | | | Silt Clay Loam | |
| 14+ | | | | | Gravel -Cobble | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Matrix chroma \leq 2 with mottles |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> Mg or Fe Concretions |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> High Organic Content in Surface Layer of Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National/Local Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma (=1) matrix | <input type="checkbox"/> Other (explain in remarks) |

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary or Secondary indicators present

Wetland Determination

- Hydrophytic vegetation present? Yes No
- Hydric soils present? Yes No
- Wetland hydrology present? Yes No
- Is the sampling point within a wetland? Yes No

Rationale/Remarks: Negative for all three parameters

NOTES:

Revised 4/97

SOILS

Map Unit Name (Series and Phase) : Unknown
Taxonomy (subgroup)

Drainage Class: Unknown

Field observations confirm mapped type? N/A

| Profile Description | | | | | | Drawing of soil profile (match description) |
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| 8-14 | | 10YR 3/3 | | | Silt Clay Loam | |
| 14+ | | | | | Gravel -Cobble | |
| | | | | | | |
| | | | | | | |

Hydric Soil Indicators: (check all that apply)

- Histosol
- Histic Epipedon
- Sulfidic Odor
- Aquic Moisture Regime
- Reducing Conditions
- Gleyed or Low-Chroma (=1) matrix
- Matrix chroma ≤ 2 with mottles
- Mg or Fe Concretions
- High Organic Content in Surface Layer of Sandy Soils
- Organic Streaking in Sandy Soils
- Listed on National/Local Hydric Soils List
- Other (explain in remarks)

Hydric soils present? Yes No

Rationale for decision/Remarks: No primary or Secondary indicators present

Wetland Determination

- Hydrophytic vegetation present? Yes No
- Hydric soils present? Yes No
- Wetland hydrology present? Yes No
- Is the sampling point within a wetland? Yes No

Rationale/Remarks: Negative for all three parameters

NOTES:

Revised 4/97

120°33'2"

IGURE 1b NWI MAP

120°33'1"W

47°1'44"N

47°1'43"N

47°1'41"N

47°1'39"N

47°1'37"N

47°1'35"N

47°1'34"N

47°1'32"N

47°1'30"N

47°1'28"N

47°1'26"N

47°1'25"N

47°1'23"N

47°1'21"N

47°1'19"N

47°1'17"N

47°1'16"

PIONEER

HANNAH

BENDER

PEMC

PEMC

Subject Property

Ac: 58.7

7a

7

6

6a

5

4

3a

1

3

1a

10

5a

9

2a

Ac: 58.7

10a

9a

8a

8

11

12

120°33'34"W

120°33'29"W

120°33'24"W

120°33'19"W

120°33'14"W

120°33'9"W

120°33'6"W

120°33'4"W

120°33'1"W

THE WETLAND CORPS



Wetland Delineation Habitat Management Plans Riparian Restoration Mitigation Biological Evaluations
Eastside Division • (509) 899-0355 Westside Division • (360) 620-0618

FIGURE 1b NWI MAP
Project Name: Starlight Property
Location: Ellensburg, Washington
Project: "C:\Projects\Starlight\NWIMap2.pdf"
Client: Starlight
Date: December 2, 2006



0 75 150 300 Feet
1 inch equals 333.3 feet

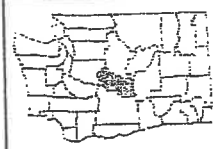
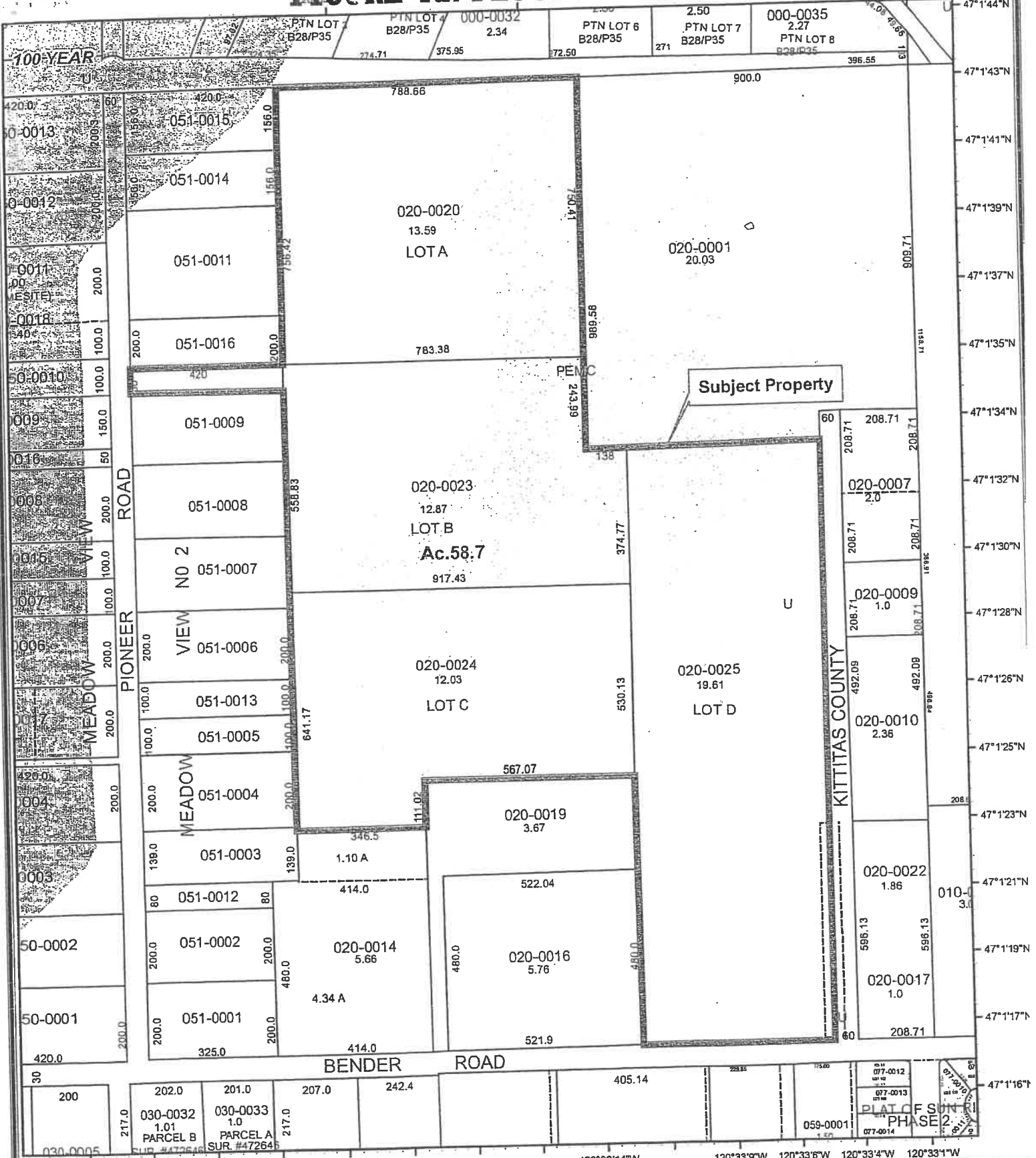


FIGURE 1a: FLOODWAY MA



THE WETLAND CORPS

Wetland Delineation Habitat Management Plans Riparian Restoration Mitigation Biological Evaluations
 Eastside Division - (509) 899-0355 Westside Division - (360) 620-0618



FIGURE 1a FLOODWAY MAP
 Project Name: Starlight Property
 Location: Ellensburg, Washington
 Project: "C:\Projects\Starlight\FloodwayMap1.pdf"
 Client: Starlight
 Date: December 2, 2006

