Exhibit J

Wetlands and Other Jurisdictional Waters

Yellow Rosebush Energy Center September 2025

Prepared for Yellow Rosebush Energy Center, LLC

Prepared by





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Acronyms and Abbreviations

Applicant Yellow Rosebush Energy Center, LLC

CFR Code of Federal Regulations

Facility Yellow Rosebush Energy Center

NHD U.S. Geological Survey National Hydrography Dataset

NWI National Wetland Inventory
OAR Oregon Administrative Rules

ODSL Oregon Department of State Lands

ORS Oregon Revised Statutes

WOS Waters of the State

WOUS Waters of the United States

1.0 Introduction

Yellow Rosebush Energy Center, LLC (Applicant) seeks to develop the Yellow Rosebush Energy Center (Facility), a solar energy generation facility, battery energy storage system, and related or supporting facilities in Wasco and Sherman counties, Oregon. This Exhibit J was prepared to meet the submittal requirements in Oregon Administrative Rules (OAR) 345-021-0010(1)(j).

2.0 Wetlands and Other Jurisdictional Waters – OAR 345-021-0010(1)(j)(A)

OAR 345-021-0010(1)(j) Information based on literature and field study, as appropriate, about waters of this state, as defined under ORS 196.800, including:

OAR 345-021-0010(1)(j)(A) A description of all areas within the site boundary that might be waters of this state and a map showing the location of these features;

2.1 Definitions

2.1.1 Federal

Waters of the United States (WOUS) are defined in 33 Code of Federal Regulations (CFR) 328.3(a)(1-5) as:

- (1) Waters which are:
 - (i) Currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
 - (ii) The territorial seas; or
 - (iii) Interstate waters;
- (2) Impoundments of waters otherwise defined as waters of the United States under this definition, other than impoundments of waters identified under paragraph (a)(5) of this section;
- (3) Tributaries of waters identified in paragraph (a)(1) or (2) of this section that are relatively permanent, standing or continuously flowing bodies of water;
- (4) Wetlands adjacent to the following waters:
 - (i) Waters identified in paragraph (a)(1) of this section; or
 - (ii) Relatively permanent, standing or continuously flowing bodies of water identified in paragraph (a)(2) or (a)(3) of this section and with a continuous surface connection to those waters;

(5) Intrastate lakes and ponds not identified in paragraphs (a)(1) through (4) of this section that are relatively permanent, standing or continuously flowing bodies of water with a continuous surface connection to the waters identified in paragraph (a)(1) or (a)(3) of this section.

Wetlands are defined federally at 33 CFR § 328.3(c)(1) as "areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."

2.1.2 State

Oregon Revised Statutes (ORS) 196.800(15) defines Waters of the State (WOS) more broadly than federal WOUS. Specifically, WOS include:

...all natural waterways, tidal and nontidal bays, intermittent streams, constantly flowing streams, lakes, wetlands, that portion of the Pacific Ocean that is in the boundaries of this state, all other navigable and nonnavigable bodies of water in this state and those portions of the ocean shore, as defined in ORS 390.605, where removal or fill activities are regulated under a state-assumed permit program as provided in 33 United States Code 1344(g) of the Federal Water Pollution Control Act, as amended.

The Oregon Department of State Lands' (ODSL) definition of wetlands mirrors the federal definition; see OAR 141-085-0510 (101).

2.2 Jurisdictional Versus Non-Jurisdictional Waters

Not all wetlands and streams are within the jurisdiction of state or federal regulation, and not all waters falling within the state's jurisdiction fall under federal jurisdiction. For the Facility, several jurisdictional distinctions are important, to estimate impacts only to jurisdictional wetlands and other waters. These include determinations related to the following:

- Ephemeral streams, which generally are not under state jurisdiction and are evaluated on a case-by-case basis for federal jurisdiction, as distinct from perennial and intermittent (Nadeau 2015 and USACE 2023).
- Artificially created roadside and farm ditches, which are considered WOS if they contain food or game fish and are connected to WOS (OAR 141-085-0515[8]) and WOUS if they connect to other WOUS and are not ephemeral (EPA and USACE 2011).

Ephemeral streams are defined in the Streamflow Duration Assessment Method for the Pacific Northwest (Nadeau 2015) as streams that flow:

...only in direct response to precipitation. Water typically flows only during and shortly after large precipitation events. An ephemeral stream may or may not have a well-defined channel, the stream bed is always above the water table, and stormwater runoff is the primary source of water. An ephemeral stream typically lacks biological, hydrological, and physical characteristics commonly associated with the continuous or intermittent conveyance of water).

In contrast, intermittent streams are defined by Oregon as "any stream which flows during a portion of every year and which provides spawning, rearing or food-producing areas for food and game fish" (OAR 141-085-0510[46]). Food-producing streams are typically one stream order above a fish-bearing stream.

Based on the definitions of jurisdictional waters given above, intermittent streams are likely to be jurisdictional under federal regulations if they have physical characteristics such as discernible banks, evidence of sustained surface flow for at least three consecutive months of the year, and a surface water connection to other WOUS.

2.3 Desktop Study

In preparation for the field work, Tetra Tech reviewed National Wetland Inventory (NWI), U.S. Geological Survey National Hydrography Dataset (NHD), hydric soils data, and aerial photographs in Google Earth to identify potential wetlands and other waters. Wetlands and surface water data were obtained from the U.S. Fish and Wildlife Service NWI (NWI 2023), which includes NWI and miscellaneous wetland mapping by state and federal agencies, non-governmental organizations, academia and consultants, and from the U.S. Geological Survey's National Hydrography Dataset (Figure J-1; NHD 2023). Soils data were also obtained from the Oregon Wetlands Database, which includes statewide polygons demarcating hydric, partially hydric, and related wetland soils, as well as from the Natural Resources Conservation Service Web Soil Survey (NRCS 2023). Tetra Tech used aerial imagery from Google Earth because a wide variety of imagery was available (Google Earth 2023). Digital maps used in the field contained the NWI, NHD, and recent aerial photograph overlays.

2.4 Delineation of Wetlands and Other Water Features

Pedestrian surveys to delineate wetlands and other waters were performed on June 26, 30, July 17 to 21, 2023, and November 6, 2024. The desktop wetland data (see Figure J-1) were used to focus the wetland delineation's field effort while the desktop surface water data were used to focus the non-wetlands water evaluation as necessary.

2.4.1 Methods

Wetland presence was determined per methods in the Manual and the Arid West Supplement. Wetland indicator status for the plants was determined using the USACE National Wetland Plant List v3.5 (USACE 1987, 2008, 2023). Flow duration for non-wetland waters was determined using criteria in the Streamflow Duration Assessment Methodology (Nadeau 2015). More details on methods are available in the attached Wetlands and Other Waters Delineation Report (Attachment J-1).

2.4.2 Results

Other Waters Total

Within the Study Area a total of 17 wetlands and 59 other waters were mapped (see Figure J-2). Vernal pools are considered an Aquatic Resource of Special Concern and two were mapped within the Study Area. Table J-1 summarizes these features, and Attachment J-1 describes the wetlands in more detail. Attachment J-2 provides supplemental data from the November 2024 survey.

Number of Features Feature Acres 2 0.45 Vernal Pool Wetlands Wetlands 15 1.60 **Wetland Total 17** 2.05 **Ephemeral Waterways** 52 4.41 2 **Intermittent Waterways** 0.29 5 **Ponds** 1.45

Table J-1. Summary of Wetlands and Other Water Features

3.0 Effects on Wetlands and Other Jurisdictional Waters of the State – OAR 345-021-0010(1)(j)(B)

OAR 345-021-0010(1)(j)(B) An analysis of whether construction or operation of the proposed facility would adversely affect any waters of this state;

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OAR 345-021-0010(1)(j)(C) A description of the significance of potential adverse impacts to each feature identified in (A), including the nature and amount of material the applicant would remove from or place in the waters analyzed in (B).

OAR 345-021-0010(1)(j)(B) requests an analysis of any adverse effects on WOS from the Facility. The Facility will not adversely affect WOS, as defined under OAR 141-085-0510. The Facility will avoid impacting any wetlands or waters, and the delineation report has been submitted to ODSL for concurrence.

3.1 Avoidance and Minimization

OAR 345-021-0010(1)(j)(F) A description of proposed actions to mitigate adverse impacts to the features identified in (F) and the applicant's proposed monitoring program, if any, for such impacts.

The Facility will have no adverse impacts to wetlands or other jurisdictional WOS. Therefore, no monitoring or mitigation is proposed.

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3.2 Significance of Impacts - OAR 345-021-0010(1)(j)(C)

OAR 345-021-0010(1)(j)(C) A description of the significance of potential adverse impacts to each feature identified in (A), including the nature and amount of material the applicant would remove from or place in the waters analyzed in (B);

The Facility will have no adverse impacts to wetlands or other jurisdictional WOS. Therefore, no material would be removed or placed in WOS.

4.0 Information Supporting Lack of Requirement for Removal-Fill Permit – OAR 345-021-0010(1)(j)(D)

OAR 345-021-0010(1)(j)(D) If the proposed facility would not need a removal-fill authorization, an explanation of why no such authorization is required for the construction and operation of the proposed facility;

There will be no impacts to wetlands or waters; therefore, no removal-fill authorization is needed.

5.0 Information Supporting Issuance of Removal-Fill Permit – OAR 345-021-0010(1)(j)(E)

OAR 345-021-0010(1)(j)(E) If the proposed facility would need a removal-fill authorization, information to support a determination by the Council that the Oregon Department of State Lands should issue a removal-fill permit, including information in the form required by the Department of State Lands under OAR Chapter 141 Division 85; and

There will be no impacts to wetlands or waters; therefore, no removal-fill authorization is needed.

6.0 Submittal Requirements

6.1 Submittal Requirements

Table J-2. Submittal Requirements Matrix

| Requirement | Location |
|---|---|
| OAR 345-021-0010(1)(j) Information based on literature and field study, as appropriate, about waters of this state, as defined under ORS 196.800 including: | - |
| (A) A description of all areas within the site boundary that might be waters of this state and a map showing the location of these features. | Section 3.0, Figure J-1, and Attachment J-1 |
| (B) An analysis of whether construction or operation of the proposed facility would adversely affect any waters of this state. | Section 3.0 |

| Requirement | Location |
|--|-------------|
| (C) A description of the significance of potential adverse impacts to each feature identified in (A), including the nature and amount of material the applicant would remove from or place in the waters analyzed in (B). | Section 3.2 |
| (D) If the proposed facility would not need a removal-fill authorization, an explanation of why no such authorization is required for the construction and operation of the proposed facility. | Section 4.0 |
| (E) If the proposed facility would need a removal-fill authorization, information to support a determination by the Council that the Oregon Department of State Lands should issue a removal-fill permit, including information in the form required by the Department of State Lands under OAR chapter 141 Division 85. | Section 5.0 |
| (F) A description of proposed actions to mitigate adverse impacts to the features identified in (A) and the applicant's proposed monitoring program, if any, for such impacts. | N/A |

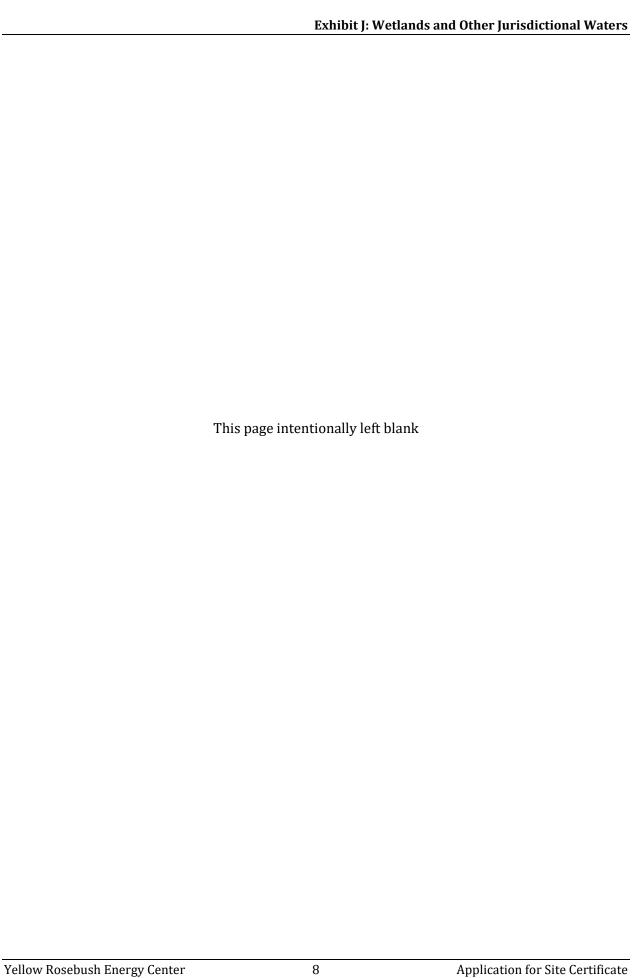
6.2 Approval Standards

OAR 345 Division 22 does not provide an approval standard specific to Exhibit J.

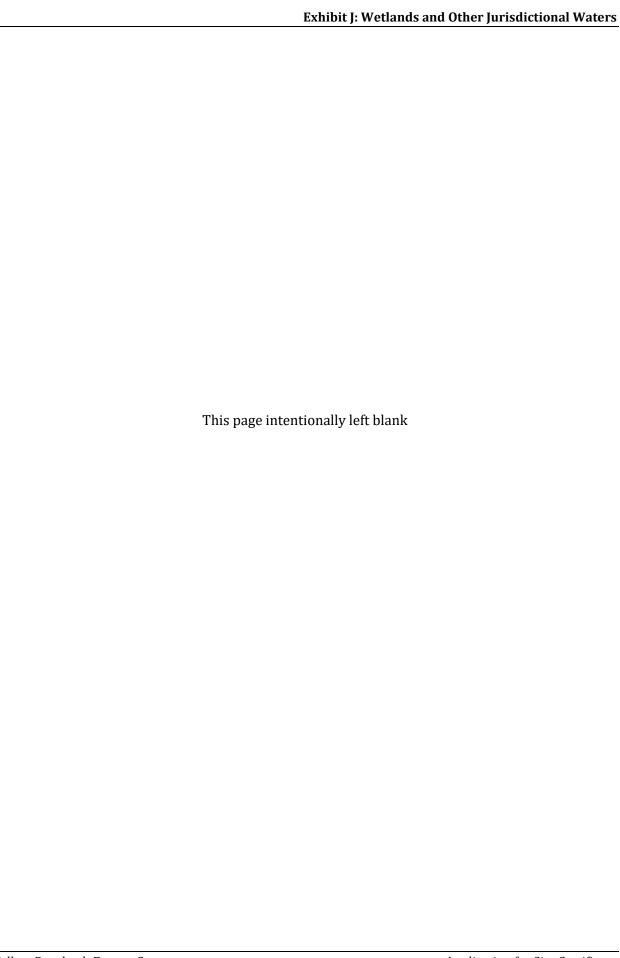
7.0 References

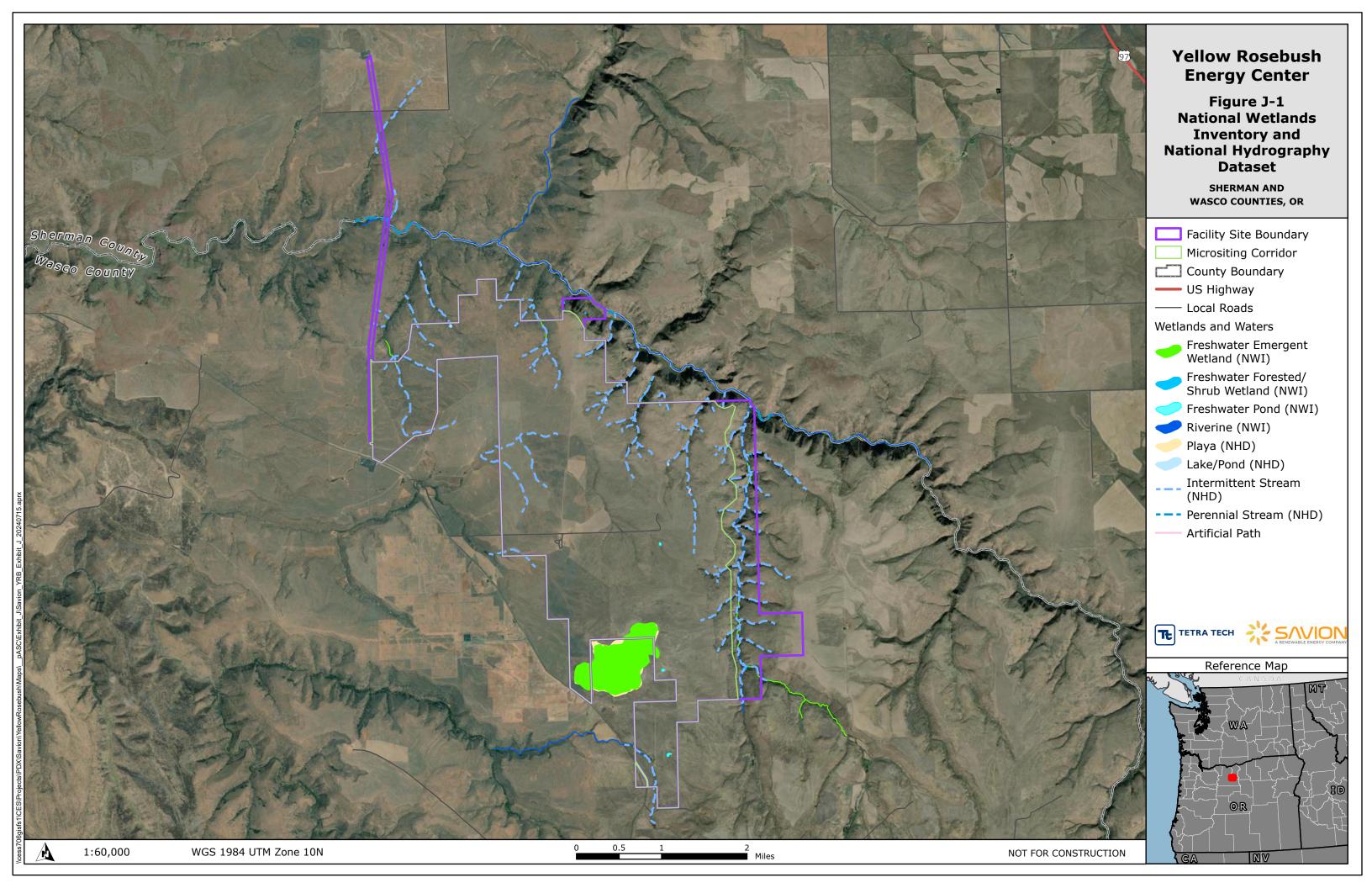
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- Google Earth Pro. 2023. Historical Aerial Imagery of the Project Study Area from 2022, 2021, 2020, 2019, 2016, 2015, 2014, 2013, 2012, 2011, 2006, 2005, 2003, 2000, and 1994.
- Nadeau, Tracie-Lynn. 2015. Streamflow Duration Assessment Method for the Pacific Northwest. EPA 910-K-14-001, U.S. Environmental Protection Agency, Region 10, Seattle, WA.
- NHD (National Hydrography Dataset). 2023. http://datagateway.nrcs.usda.gov/ Accessed 2023.
- NRCS (Natural Resources Conservation Service). 2023. Web Soil Survey. http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx. Accessed 2023.
- NWI (U.S. Fish and Wildlife Service, National Wetlands Inventory). 2023. Wetlands Data by State, Oregon. Available at: https://www.fws.gov/wetlands/Data/State-Downloads.html.
- USACE (U.S. Army Corps of Engineers). 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. January 1987. Wetlands Research Program. U.S. Army Corps of Engineers, Waterways Experiment Station, 3909 Halls Ferry Road, Vicksburg, MS 39180-6199.

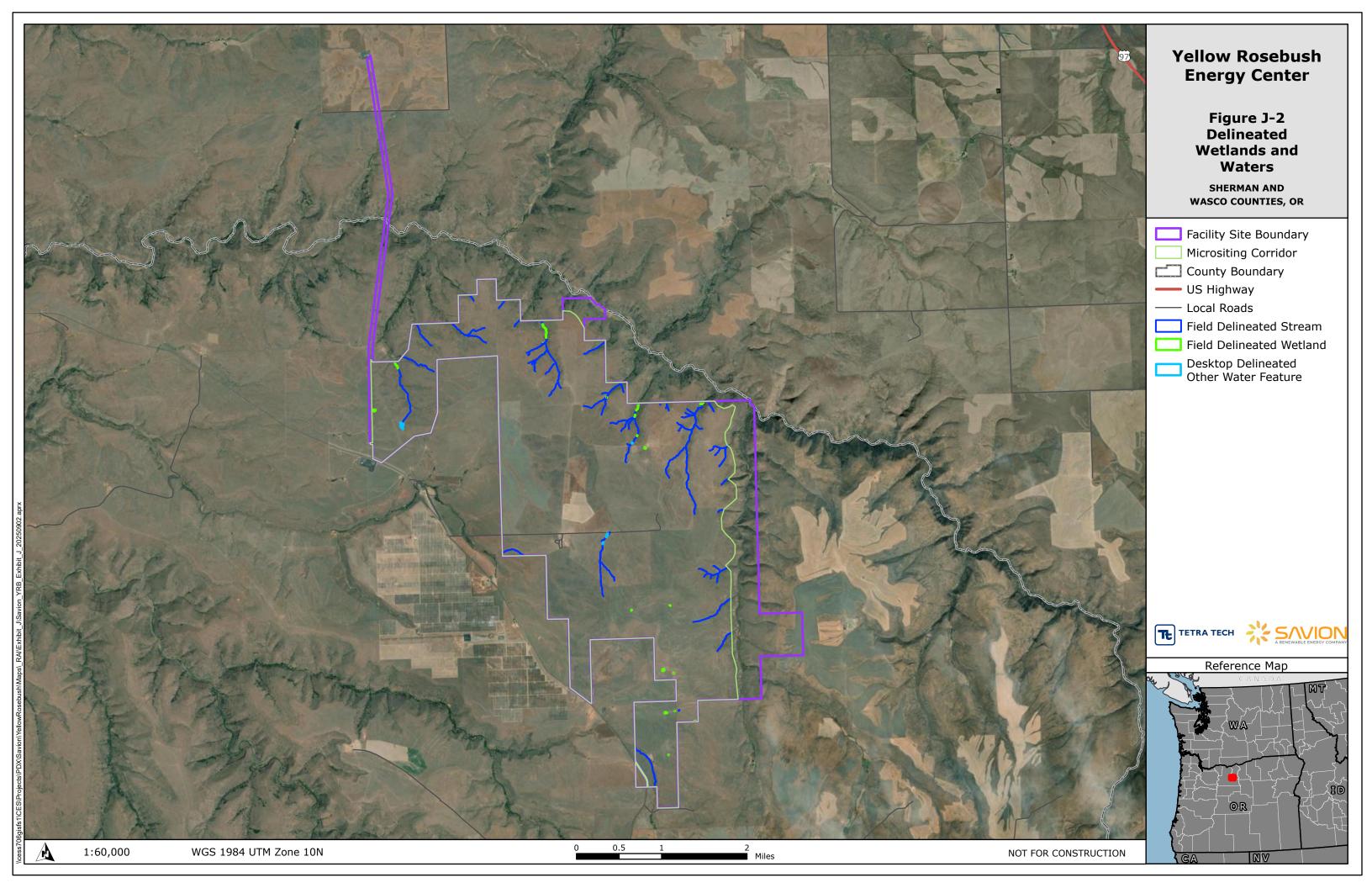
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- USACE. 2023. Current Implementation of Waters of the United States. Available: https://www.epa.gov/wotus/current-implementation-waters-united-states



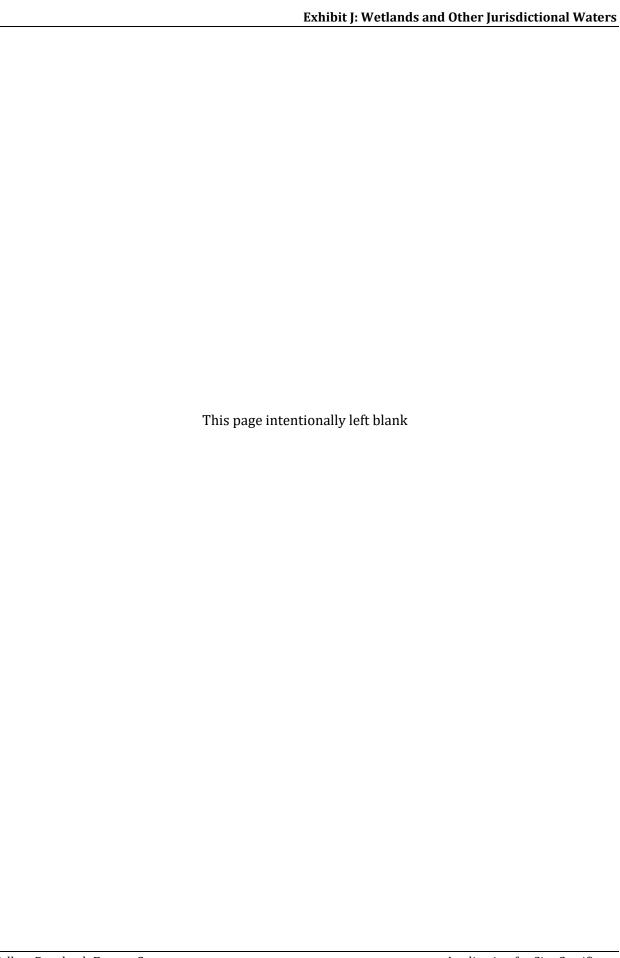
Figures







Attachment J-1. Wetlands and Other Waters Delineation Report



Wetlands and Other Waters Delineation Report

Yellow Rosebush Energy Center

Prepared for: Yellow Rosebush Energy Center, LLC

Prepared by:



Tetra Tech, Inc

October 2023



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1.0 Introduction

Yellow Rosebush Energy Center, LLC contracted Tetra Tech, Inc. (Tetra Tech) to perform wetland and other waters surveys for the Yellow Rosebush Energy Center (Project), located in Wasco County, Oregon. Tetra Tech surveyed a 7,026-acre micrositing boundary within the larger 8,075-acre leased boundary.

2.0 Landscape Setting

2.1 Study Area

The approximately 7,026-acre Study Area encompasses all Project components, including potential solar array sites, access roads, temporary workspaces, and laydown areas, with the exception of the alternate transmission line route and substation connection (Figure 1). The transmission line will be surveyed in spring of 2024.

Figure 2 shows the tax lots crossed by the Study Area. Table 1 includes the townships, ranges, and sections in the Project Study Area.

| Tax Lot Number | | | | | | | |
|----------------|---------------|--|--|--|--|--|--|
| 4S 15E 0 1500 | 5S 16E 0 2300 | | | | | | |
| 5S 16E 0 1000 | 5S 16E 0 2400 | | | | | | |
| 5S 16E 0 1100 | 4S 16E 0 300 | | | | | | |
| 5S 16E 0 1300 | 5S 16E 0 900 | | | | | | |
| 5S 16E 0 2000 | 5S 15E 0 100 | | | | | | |

Table 1. Tax Lot Numbers within the Project Study Area

2.2 Landscape Setting

The Project is located within the Level III Columbia Plateau Ecoregion and within the Level IV Umatilla Plateau and Deschutes/John Day Canyons Ecoregions (Thorson et al. 2003). In addition, the Project is within US Department of Agriculture Land Resource Region (LRR) B, Northwest Wheat and Range Region (NRCS 2006). LRR B, Northwest Wheat and Range Region is equivalent to LRR B Columbia/Snake River Plateau Region in the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region Version 2.0 (Arid West Supplement; USACE 2008).

Plant species names and associated wetland indicator status ratings are from the National Wetland Plant List version 3.5 (USACE 2020). The following wetland indicator ratings are ordered according to the percent likelihood of the plant occurring in wetlands; from most likely to least likely: Obligate (OBL), Facultative Wetland (FACW), Facultative (FAC), Facultative Upland (FACU), and Upland

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(UPL). Species with an indicator of NI (No Indicator) refer to plants that are not listed in the wetland plant list, and are thereby considered to be upland plants.

Dominant shrub and tree species found within the Study Area included: basin big sagebrush (*Artemisia tridentata* ssp. *tridentata*, NI), stiff sage (*Artemisia rigida*, NI), white sagebrush (*Artemisia ludoviciana*, FACU), rubber rabbitbrush (*Ericameria nauseosa*, NI), green rabbitbrush (*Chrysothamnus viscidiflorus*, NI), antelope bitterbrush (*Purshia tridentata*, NI), and western juniper (*Juniperus occidentalis*, NI).

Dominant grass species found within the Study Area included: Idaho fescue (*Festuca idahoensis*, FACU) cheat grass (*Bromus tectorum*, NI), bulbous bluegrass (*Poa bulbosa*, FACU), Kentucky bluegrass (*Poa pratensis*, FAC), ventenata (*Ventenata dubia*, NI), small fescue (*Vulpia microstachy*, NI), bluebunch wheatgrass (*Pseudoroegneria spicata*, NI), and medusahead (*Taeniatherum caputmedusae*, NI).

Dominant herbaceous species documented in the Study Area included: common yarrow (*Achillea millefolium*, FACU), barestem lomatium (*Lomatium nudicaule*, UPL), nineleaf biscuitroot (*Lomatium triternatum*, NI), Gray's biscuitroot (*Lomatium grayi*, NI), Suksdorf's desert parsley (*Lomatium suksdorfii*, NI), sulphur-flower buckwheat (*Eriogonum umbellatum*, NI), tall buckwheat (*Eriogonum elatum*, NI), common mullein (*Verbascum thapsus*, FACU), woollypod milkvetch (*Astragalus purshii*, NI), large flowered collomia (*Collomia grandiflora*, NI), upland larkspur (*Delphinium nuttallianum*, FAC), linear-leaved phacelia (*Phacelia linearis*, NI), and arrowleaf balsamroot (*Balsamorhiza sagittata*, NI).

2.3 National Wetlands Inventory, National Hydrography Dataset, and Hydric Soils

Prior to field work, Tetra Tech reviewed the National Wetlands Inventory (NWI), the National Hydrography Dataset (NHD), Natural Resource Conservation Service (NRCS) hydric soils data, and aerial photographs to identify potential wetlands and other waters, as described below.

2.3.1 NWI and **NHD**

Digital maps used in the field contained the NWI, NHD, and recent aerial photograph overlays. Figure 3 shows the NWI and NHD mapped features in the Study Area (NWI 2023, NHD 2023). The following NWI features are mapped within the Study Area, with quantity included in parentheses:

- PEM1B wetlands (1): Palustrine, emergent, persistent, saturated;
- PUSAh wetlands (7): Palustrine, unconsolidated shore, temporary flooded, diked, impounded;
- PEM1C wetlands (2): Palustrine, emergent, persistent, seasonally flooded;
- PEM1] wetlands (1): Palustrine, emergent, persistent, intermittently flooded; and
- PSSA wetlands (1): Palustrine, scrub-shrub, temporarily flooded.

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2.3.2 Hydric Soils

There are six soil types mapped by the Natural Resource Conservation Service in the Study Area (Table 2). Of these, the Playas map unit are listed as hydric soil (NRCS 2023b, NRCS 2023c). Figure 4 shows the mapped soil units within the Study Area. Figure 5 shows recent aerial imagery of the Study Area.

| Map Unit Code | Map Unit Name | Hydric Rating | Acres |
|---------------|---|---------------|--------|
| BcC | Bakeoven-Condon complex, 2 to 20 percent slopes | No | 1653.5 |
| CnC | Condon silt loam, 2 to 12 percent slopes | No | 4163.3 |
| СоС | Condon-Bakeoven complex, 2 to 20 percent slopes | No | 851.7 |
| LeF | Lickskillet extremely stony loam, 40 to 70 percent slopes | No | 192.7 |
| Pa | Playas | Yes | 77.8 |
| WrF | Wrentham-Rock outcrop complex, 35 to 70 percent slopes | No | 86.3 |

Table 2. Soils Mapped in the Project Study Area

3.0 Site Alterations and Land Use

Site alterations are those activities that directly or indirectly impact wetlands and other waters in such a way that the function or area of the feature changes significantly. A significant alteration would be one that renders the feature non-functioning, or one that changes the boundaries. Land use in the Project Study Area is generally dominated by livestock grazing and the infrastructure needed to manage associated herds (e.g., fences, farm roads, and artificially created watering ponds). Road building and other drainage alterations associated with these practices may have affected the geographic size or the hydroperiod of wetlands and other waters. Most of the wetlands that were delineated in the Study Area resulted from past ground disturbance actions that created depressions where wetlands have since formed, resulting in artificially created wetlands The Study Area traverses largely unpopulated land used for cattle grazing.

Where livestock is present on agricultural lands, wetlands and streams have been altered by compacting soils, trampling and grazing of existing vegetation (especially riparian areas), introducing and spreading non-native invasive plant species in disturbed wetland soils, and reducing water quality by depositing manure and increasing sedimentation through the trampling of stream-side soil and vegetation. Alterations associated with livestock affect the vegetation, soils, and hydrologic conditions within the respective wetlands.

4.0 Precipitation Data and Analysis

Precipitation data for the period preceding and during field work were collected from the Community Collaborative Rain, Hail, and Snow Network, Madras 6.6 NNW Station (COCORAHS 2023). Data from the NRCS Climate Analysis for Wetlands Tables (WETS) Station, Madras, Oregon,

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were used to compare historical precipitation data with recent water records (COCORAHS 2023, NRCS 2023).

For the Water Year October 1, 2022 through July 21, 2023, precipitation was 92 percent of average. (Table 3). Based on the precipitation data for the Water Year for the 3 months prior to the site visits, it was estimated that groundwater was about what is usually encountered at this time of year. Precipitation was below average in October and November of 2022, and January, February, April, June, and July of 2023. The lower precipitation in these months was made up for by the above average precipitation in December 2022, and March and May 2023. Precipitation levels did not affect the delineation of other waters, as determinations of intermittent versus ephemeral streams were made using indicators described in the Streamflow Duration Assessment Method (Nadeau 2015), which relies on multiple indicators independent of the presence or absence of hydrology.

Table 3. Precipitation Data

| Precipitation | Oct 2022 | Nov 2022 | Dec 2022 | Jan 2023 | Feb 2023 | Mar 2023 | Apr 2023 | May 2023 | June 2023 | July 1-21 2023 | Water Year Total |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|------------------|
| Recorded Monthly Precipitation Totals ¹ (inches); (Madras, OR) | 0.12 | 0.94 | 2.17 | 0.35 | 0.21 | 1.43 | 0.78 | 2.30 | 0.00 | 0.00 | 8.30 |
| WETS Average Monthly Precipitation ² (inches); (Madras, OR) | 0.80 | 1.24 | 1.27 | 1.12 | 0.96 | 0.82 | 0.83 | 0.96 | 0.61 | 0.42 | 9.03 |
| Recorded Precipitation Relative to WETS Average Monthly Precipitation | 15% | 76% | 171% | 31% | 22% | 174% | 94% | 240% | 0% | 0% | 92% |
| Normal Monthly Range of Precipitation ² (inches) | 0.45-0.97 | 0.63-1.52 | 0.60-1.55 | 0.62-1.37 | 0.45-1.17 | 0.47-1.00 | 0.42-1.02 | 0.47-1.17 | 0.25-0.72 | 0.15-0.45 | N/A |
| 1 Madras 6.6 NNW OR Station (CoCoRaHS 2023) | | | | | | | | | | | |

^{1.} Madras 6.6 NNW, OR Station (CoCoRaHS 2023)

^{2.} Madras, OR Station (NOAA 2023)

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5.0 Methods

5.1 Pre-field Work

In preparation for the field work, Tetra Tech reviewed NWI, NHD, hydric soils data, and aerial photographs in Google Earth to identify potential wetlands and other waters, as described in the preceding sections. Tetra Tech prepared digital field maps with these data and uploaded maps onto Samsung Android data collection tablets to assist field staff in identifying the locations of probable wetlands and non-wetland waters within or adjacent to the Study Area.

Wetlands and surface water data were obtained from the U.S. Fish and Wildlife Service NWI (NWI 2023), which includes NWI and miscellaneous wetland mapping by state and federal agencies, nongovernmental organizations, academia and consultants, and from the U.S. Geological Survey National Hydrography Dataset (NHD 2023). Soils data were also obtained from the Oregon Wetlands Database, which includes statewide polygons demarcating hydric, partially hydric, and related wetland soils (Oregon Spatial Data Library 2023), as well as from the NRCS Web Soil Survey (NRCS 2023c). Tetra Tech used aerial imagery from Google Earth because a wide variety of imagery was available. The wetland figures aerial imagery is dated February 23, 2023.

The following guidance documents and procedures were reviewed:

- Arid West Supplement (USACE 2008);
- Wetlands Delineation Manual, Technical Report Y-87-1 (the Manual; USACE 1987);
- Streamflow Duration Assessment Method for the Pacific Northwest (Nadeau 2015);
- Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al. 1979); and
- Oregon Administrative Rule (OAR) 141-090, Administrative Rules for Wetland Delineation Report Requirements and for Jurisdictional Determinations for the Purpose of Regulating Fill and Removal within Waters of the State.

5.2 Field Work

Pedestrian surveys to delineate wetlands and other waters were performed on June 26, 30, and July 17 to 21^{st} . The desktop wetland data were used to focus the wetland delineation's field effort while the desktop surface water data were used to focus the non-wetlands water evaluation as necessary.

5.2.1 Wetland Delineations

Wetland presence was determined per methods in the Manual and the Arid West Supplement. Wetland indicator status for the plants was determined using the USACE National Wetland Plant List v3.5 (USACE 2020).

- Sample plots were established in all features identified by NWI data (Oregon Spatial Data Library 2018). The sample plot was located within the feature where it was judged most likely to have wetland characteristics (i.e., the lowest or most green place).
- Paired sample plots were established in logical locations to document wetland boundaries.
- The number of sample plots established in wetlands was commensurate with the size and complexity of the wetland, and whether the wetland was bordered by upland or another wetland with a different Cowardin et al. (1979) classification; the number of sample plots per wetland ranged from one to several. Wetland datasheets are provided in Appendix A.
- Photographs were taken to document wetland and upland conditions at the wetland boundary. Photographs were also taken at sample plots documenting upland conditions at locations that NHD mapped as streams (Appendix B).
- Each wetland boundary was recorded as a polygon using Juniper Geode GPS units.
- Non-Wetland Waters Delineations.

Flow duration for non-wetland waters was determined using criteria in the Streamflow Duration Assessment Methodology (Nadeau 2015). The centerline of all non-wetland waters less than or equal to 6 feet wide was recorded using the Juniper Geodes as a line feature and buffered to the stream width determined in the field. All delineated streams that were greater than 6 feet wide were recorded as polygon features.

6.0 Description of Wetlands and Other Non-Wetland Waters,

The following sections describe the characteristics of the wetlands and waters within the Study Area.

6.1 Wetlands

Wetlands within the Study Area were found in ephemeral drainages that had seeps within their bed and banks, in excavated livestock ponds, and in scablands with shallow soils. One suspected wetland (WT-501) was inaccessible due to very steep terrain and it is desktop delineated and shown on Figure 5.1.15. Wetland WT-501 likely extends out of the project area to the northeast. There will be no project elements installed in this area.

Table 4 contains a description of each field delineated wetland including their HGM and Cowardin classifications. There are no Aquatic Resources of Special Concern (ARSC) identified within the Study Area.

There is a mapped playa in the southeast section of the Study Area. However only portions of the mapped playa are within the study area. The NWI has this feature mapped as PEM1J. The special modifier J is usually limited to the Arid West and is stated to "not fall within our definition of wetland because they do not have hydric soil or support hydrophytes". The center of the mapped playa may hold water seasonally however that is not within the Study Area. Hydrology has been

altered with agricultural practices such as plowing, ditching, and pond and berm construction. The aerial signature is not typical of most playas in the Arid West. The aerial signature shows areas within the mapped playa soils that share the same patterned ground of the Bakeoven-Condon soils. There is a berm and pond to the east of this mapped playa (WT-443), which is an example of the manipulated hydrology in the area.

Table 4. Soils Mapped in the Project Study Area

| Wetland Name | HGM (Subclass) Wetland Type | Cowardin | Acres | General Conditions | |
|-----------------|--|----------|-------|--|--|
| WT-122 | Riverine (Flow- through) | PEM | 0.003 | Small depressional wetland in ephemeral drainage, likely fed by groundwater. | |
| WT-123 | Riverine (Flow- through) | PEM | 0.01 | Small depressional wetland in ephemeral drainage where a seep occurs. | |
| WT-124 | Riverine (Flow- through) | PSS | 0.16 | Wetland begins within site boundary where drainage has seeps. Water was observed in channel and continues offsite to the north. Vegetation is dense and there is a closed canopy over water. | |
| WT-201 | Riverine (Flow- through) | PEM | 0.10 | Hydrology for wetland in drainage comes from overflow from livestock watering troughs. Water comes from pump in drainage. | |
| WT-203 | Depressional (Closed Nonpermane nt) | PEM | 0.01 | Artificially created livestock watering area meets wetland criteria. It appears that swale was dug out and a berm created on downhill side to create ponding of surface flow | |
| WT-212 | Riverine (Flow- through) | PEM | 0.15 | Wetland in ephemeral drainage originates from multiple seeps along drainage bottom. | |
| WT-313 | Depressional (Closed Nonpermane nt) | PEM | 0.16 | Artificially created wetland/habitat/livestock pond has Pacific tree frogs in soil cracks and wetland plants growin where water has receded. Piped water provides hydrolog for wetland. | |
| WT-434 | Depressional (Closed Nonpermane nt) | PEM | 0.02 | Vernal pool in rangeland. Or an artificially created feature Really an ARSC? | |
| WT-440 | Depressional (Closed Nonpermane nt) | PEM | 0.04 | Artificially created excavated livestock pond meets vernal pool wetland criteria. Not an ARSC. | |
| WT-443 | Depressional (Closed | PEM | 0.28 | Artificially created excavated livestock pond meets wetland criteria. | |

| | Nonpermane nt) | | | |
|--------|--|-----|------|---|
| WT-445 | Depressional (Closed Nonpermane nt) | PEM | 0.01 | Artificially created small wetland in excavated livestock pond. |

6.2 Non-wetland Waters

There are no Essential Salmonid Habitat (ESH) waters within the Study Area. Buck Hollow Creek is outside of the Study Area and is considered ESH. All waters except for ST-447 and a segment of ST-407 are considered ephemeral per the Stream Duration Assessment Method (Hruby 2014). All ephemeral drainages are populated with species such as medusahead, cheat grass, bluebunch wheatgrass, basin big sagebrush, rabbitbrush, and juniper. All ephemeral streambeds were all fully vegetated with upland species within bed and banks. Intermittent drainage ST-447 and the upper reaches of the intermittent segment of ST-407 had basin big sagebrush, silver sage, and tumble mustard (*Sisybrium altissimum*) in their bed and banks.

The lower reach of intermittent stream segment of ST-407 was inaccessible as the drainage drops over a (dry) waterfall 260 feet from the northern boundary of the Study Area. The intermittent determination was made based on vegetation observed from top of waterfall. Vegetation visible in the intermittent segment of ST-407 included cottonwood (*Populus balsamifera*) and mock orange (*Philadelphus lewisii*).

Livestock ponds were delineated using Google Earth historical orthoimagery to get a more accurate ordinary high water as there was no water in the livestock ponds while surveyors were in the field and the livestock ponds were generally filled with annual weeds.

7.0 Results and Conclusions

A total of eleven palustrine emergent wetlands, one desktop delineated riverine wetland, 49 ephemeral waterways, two intermittent waterways, and four livestock ponds were found within the Study Area. These are depicted in Figure 5 and summarized in Table 4.

Table 5. Summary of Wetlands and Other Water Features

| Feature | Number of Features | Acres |
|--|--------------------|-------|
| Palustrine Emergent Wetlands, including Vernal Pools | 11 | 0.95 |
| Riverine wetland | 1 | 0.45 |
| Wetland Total | 11 | 1.40 |
| Ephemeral Waterway | 49 | 4.45 |
| Intermittent Waterway | 2 | 0.31 |

| Livstock Ponds | 4 | 1.39 |
|--------------------|----|------|
| Other Waters Total | 53 | 6.15 |

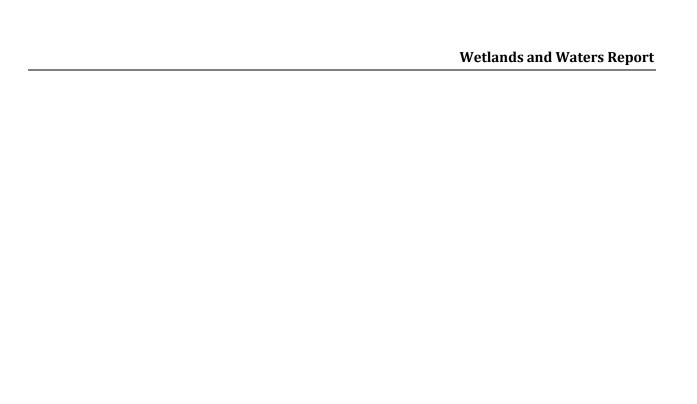
8.0 Disclaimer

This disclaimer is included according to OAR 141-090-0035(12)(j): "This report documents the investigation, best professional judgment, and conclusions of the investigator. It is correct and complete to the best of my knowledge. It should be considered a Preliminary Jurisdictional Determination of wetlands and other waters and used at your own risk unless it has been reviewed and approved in writing by the Oregon Department of State Lands in accordance with OAR 141-090-0005 through 141-090-0055."

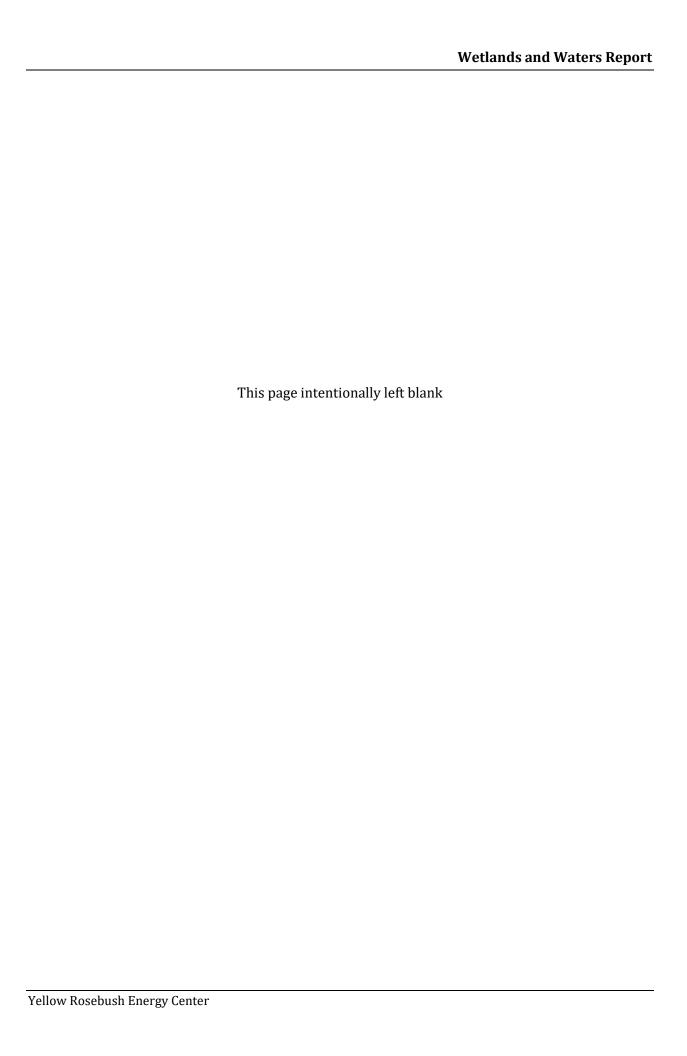
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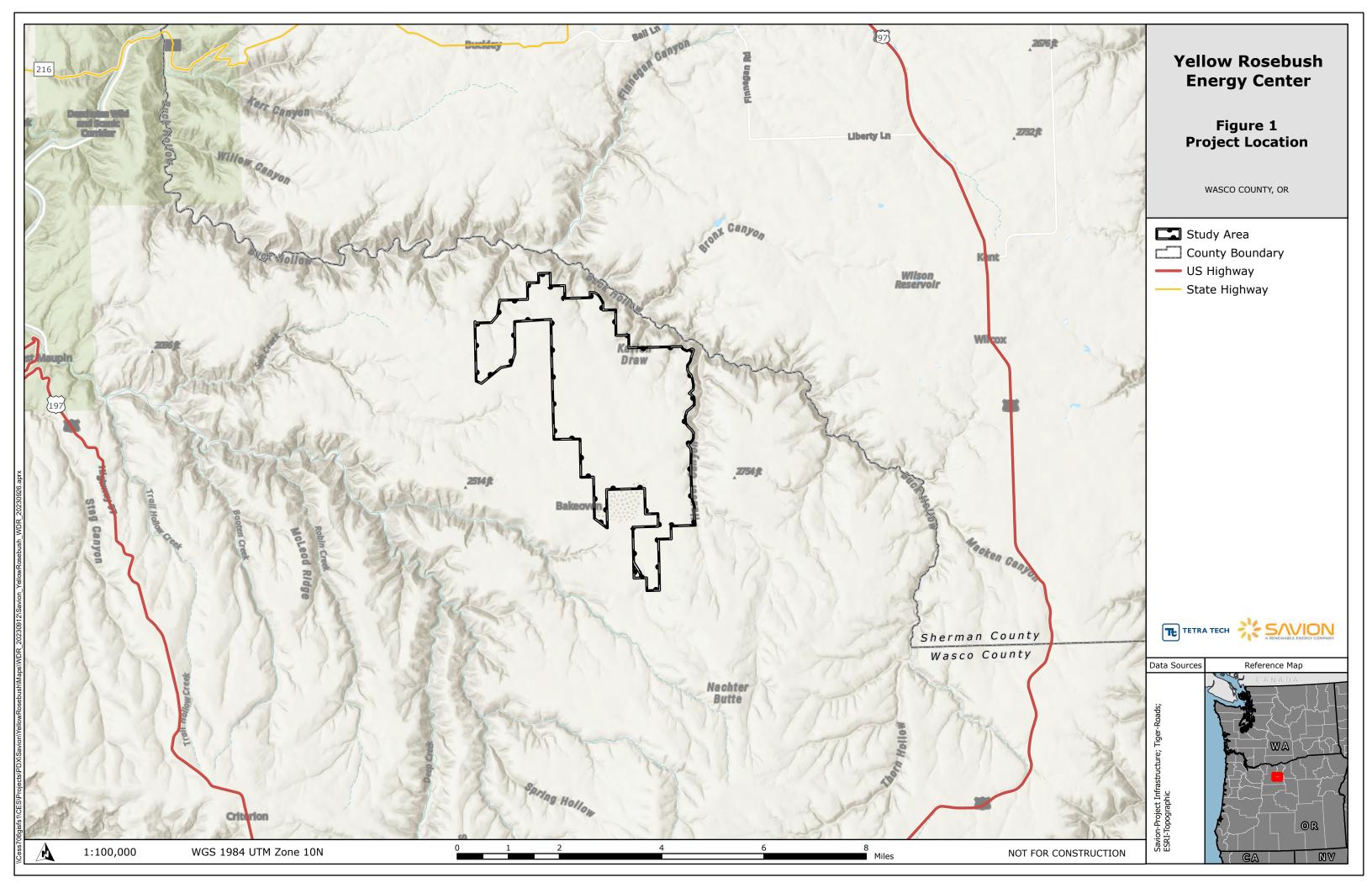
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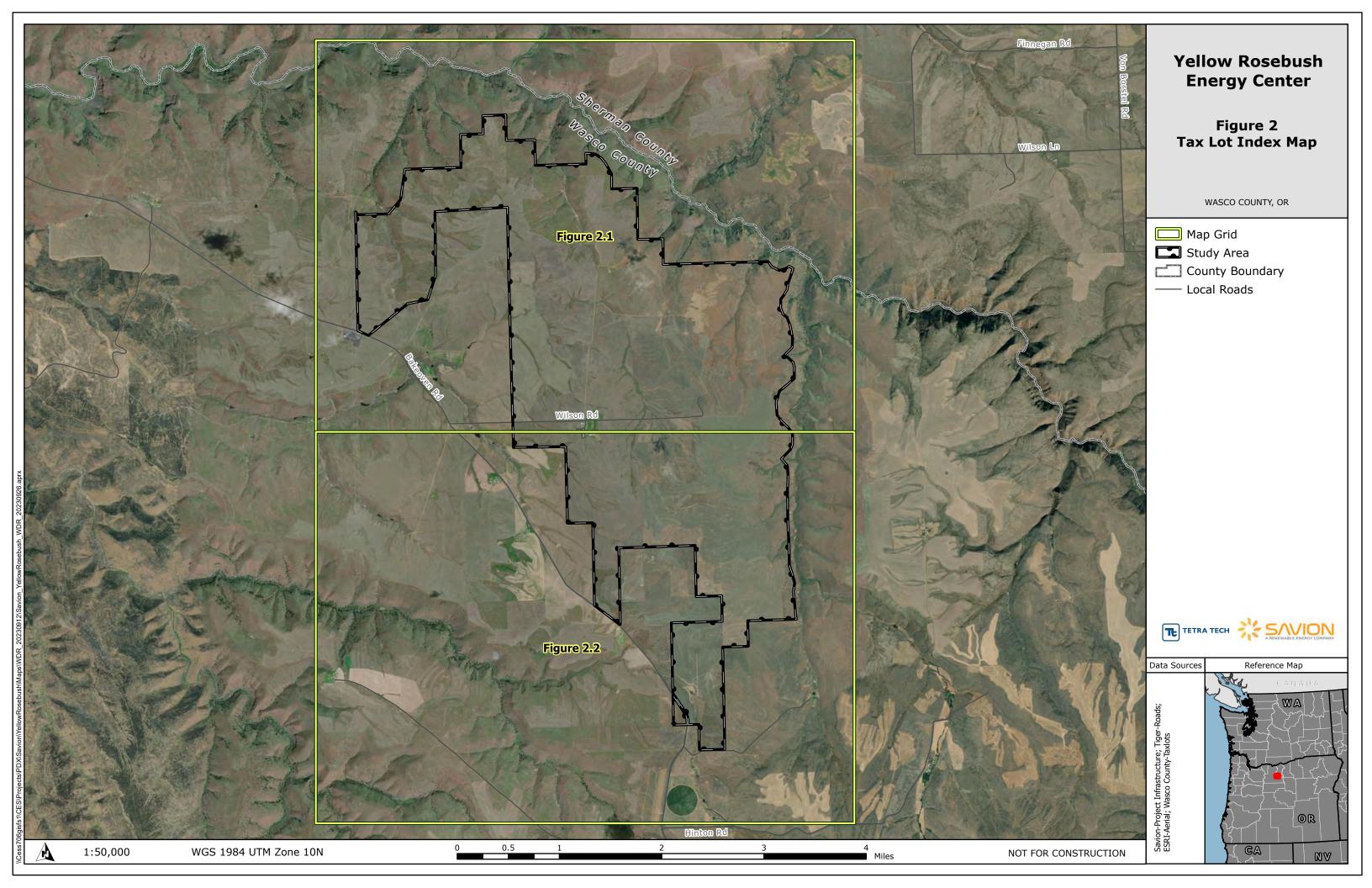
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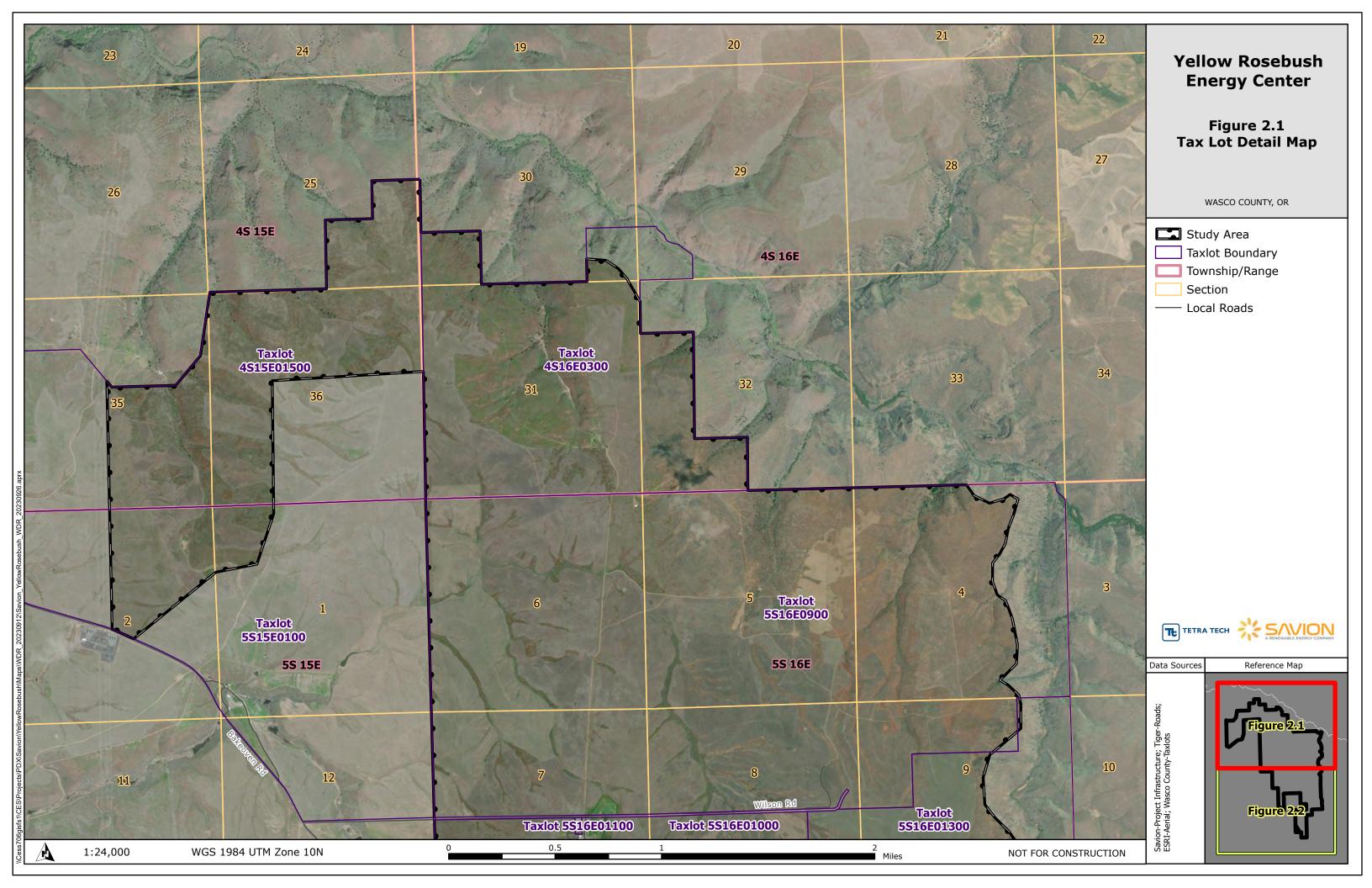


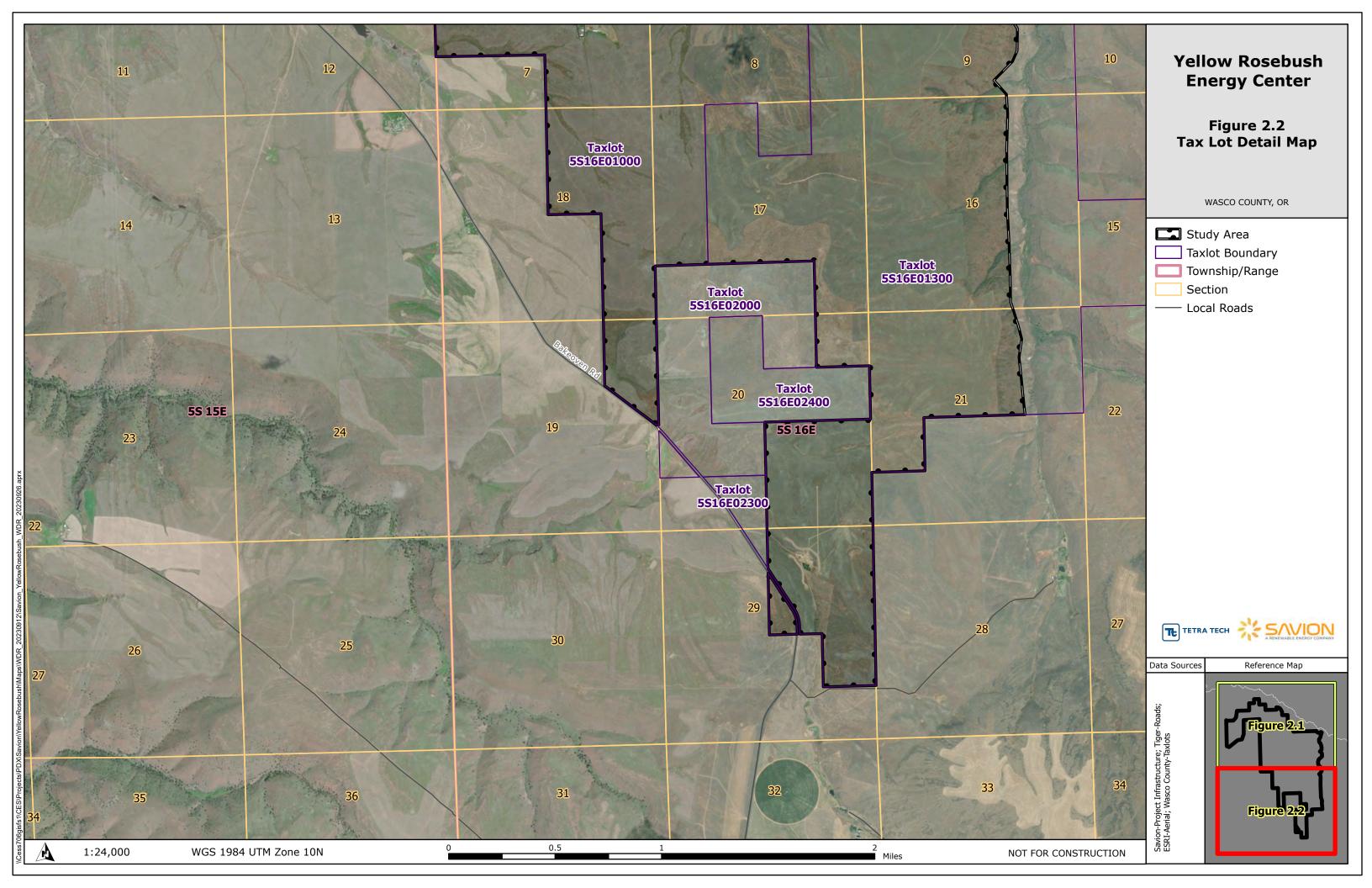
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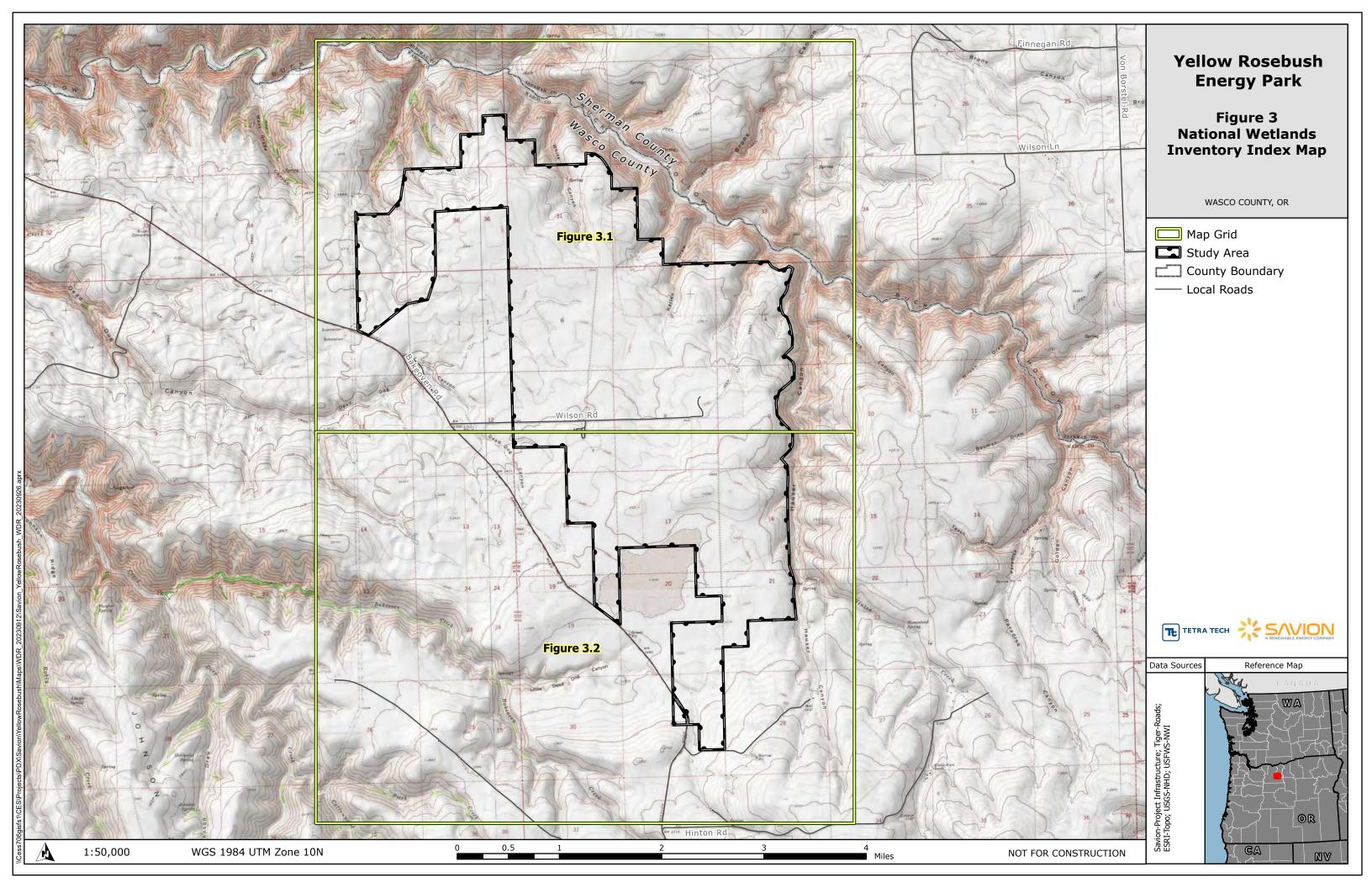


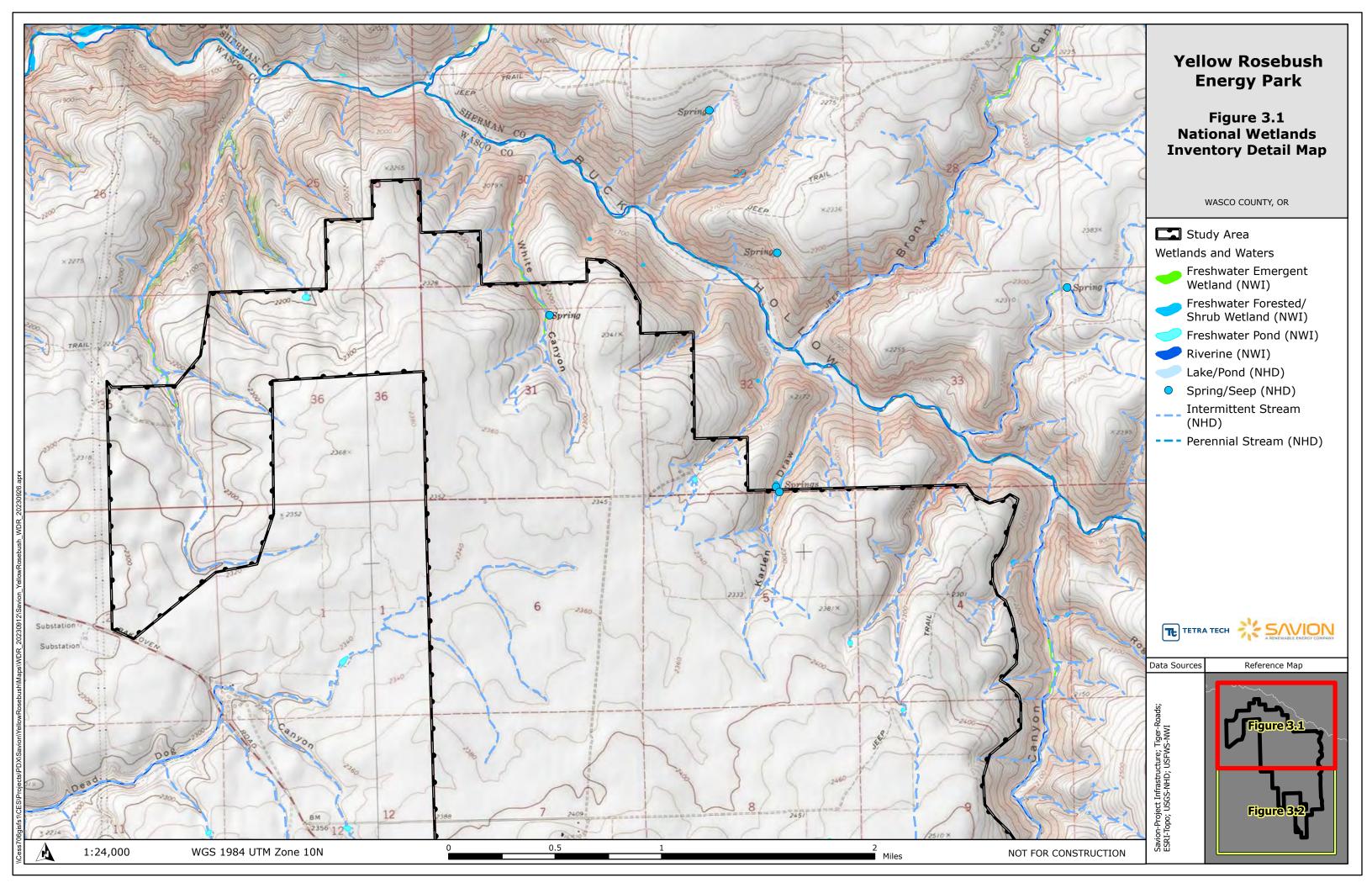


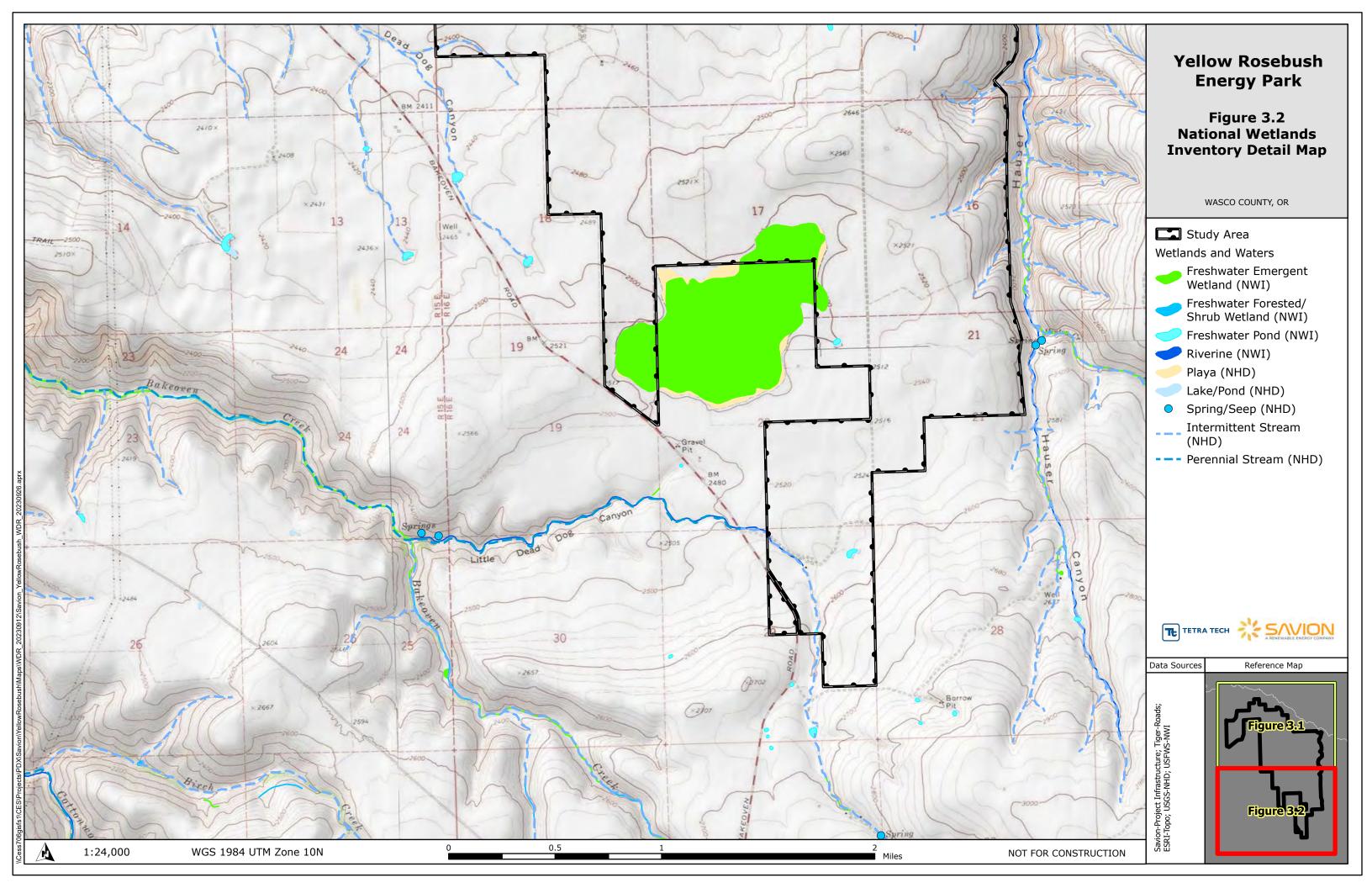


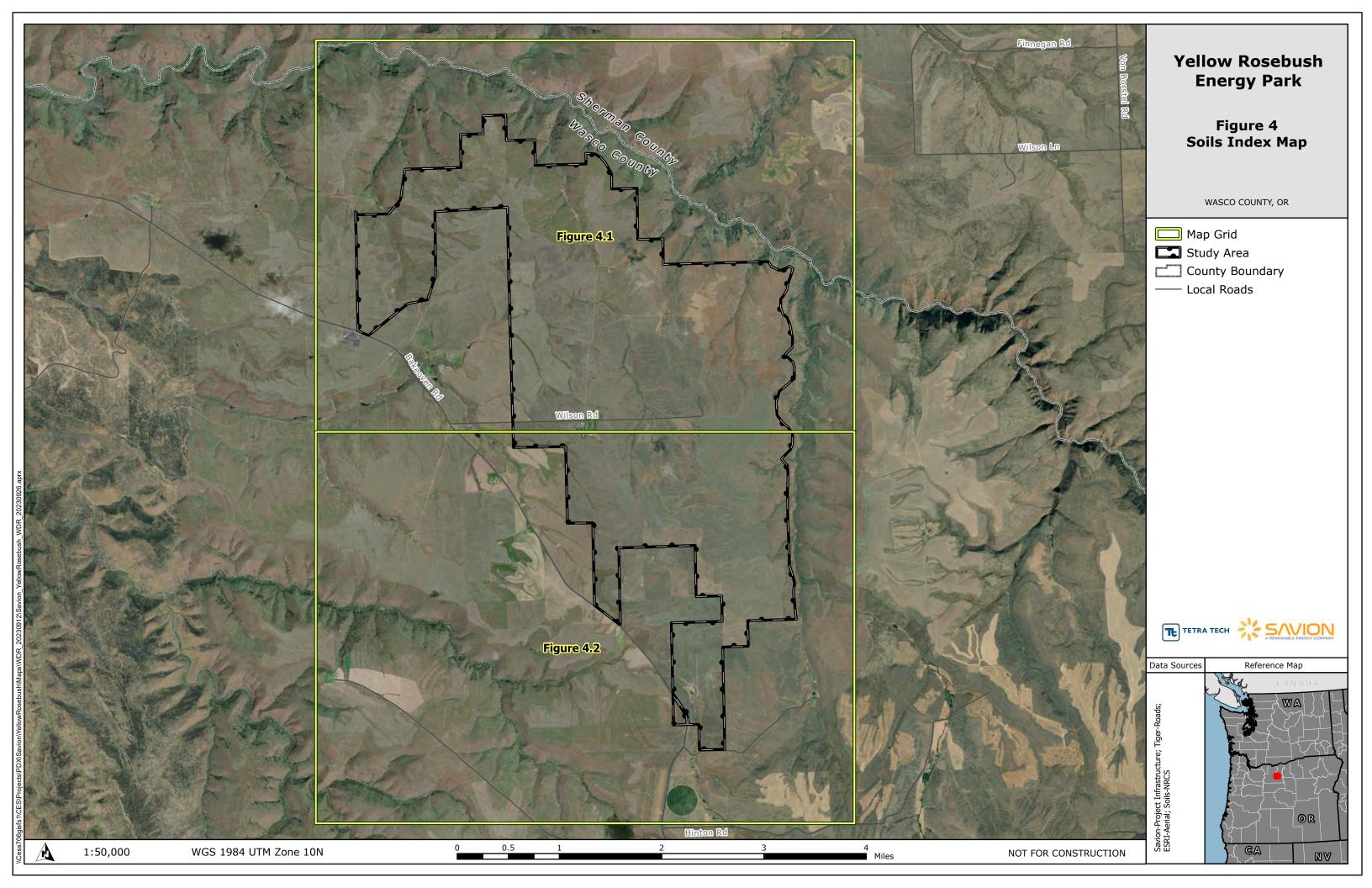


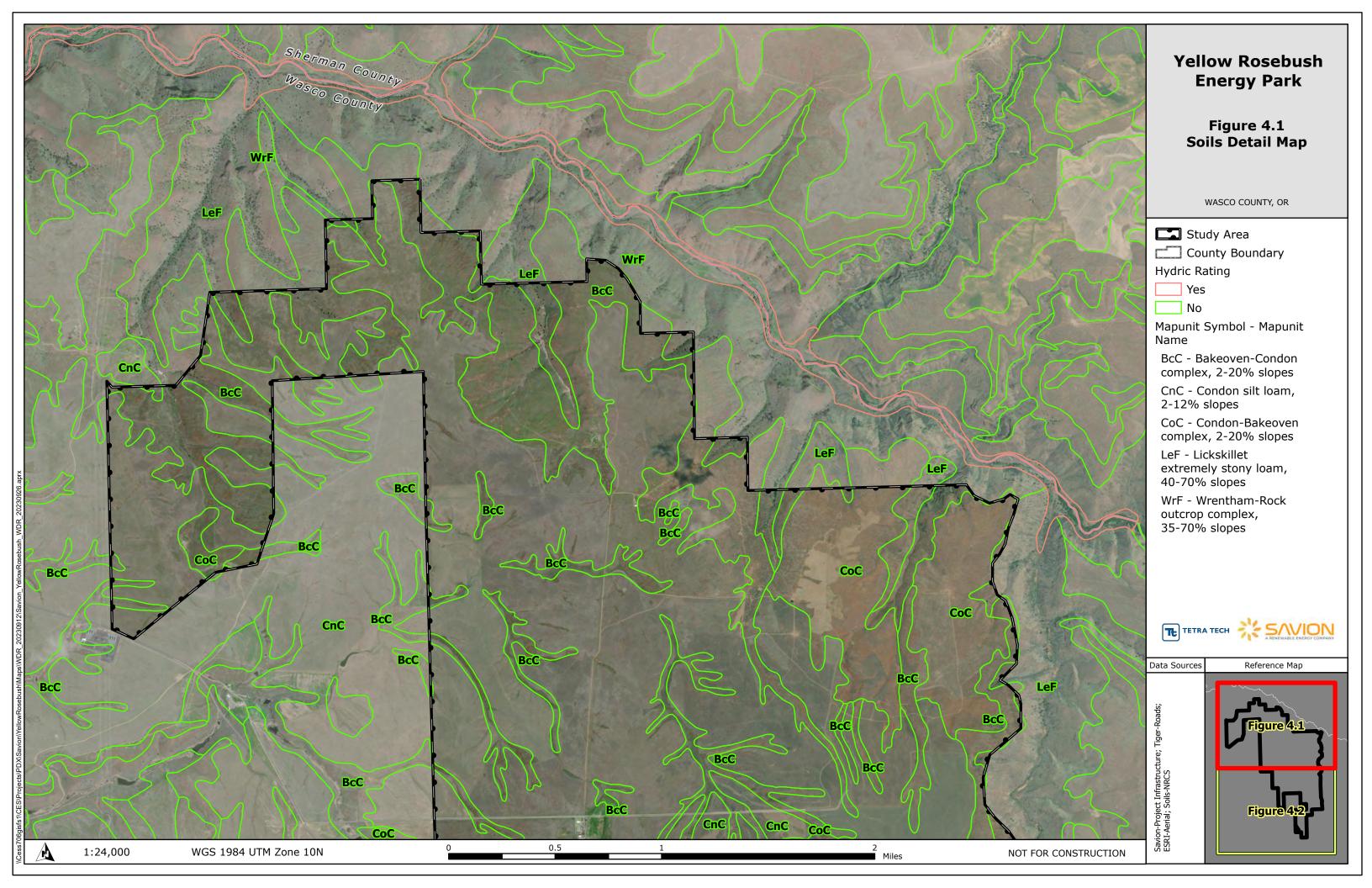


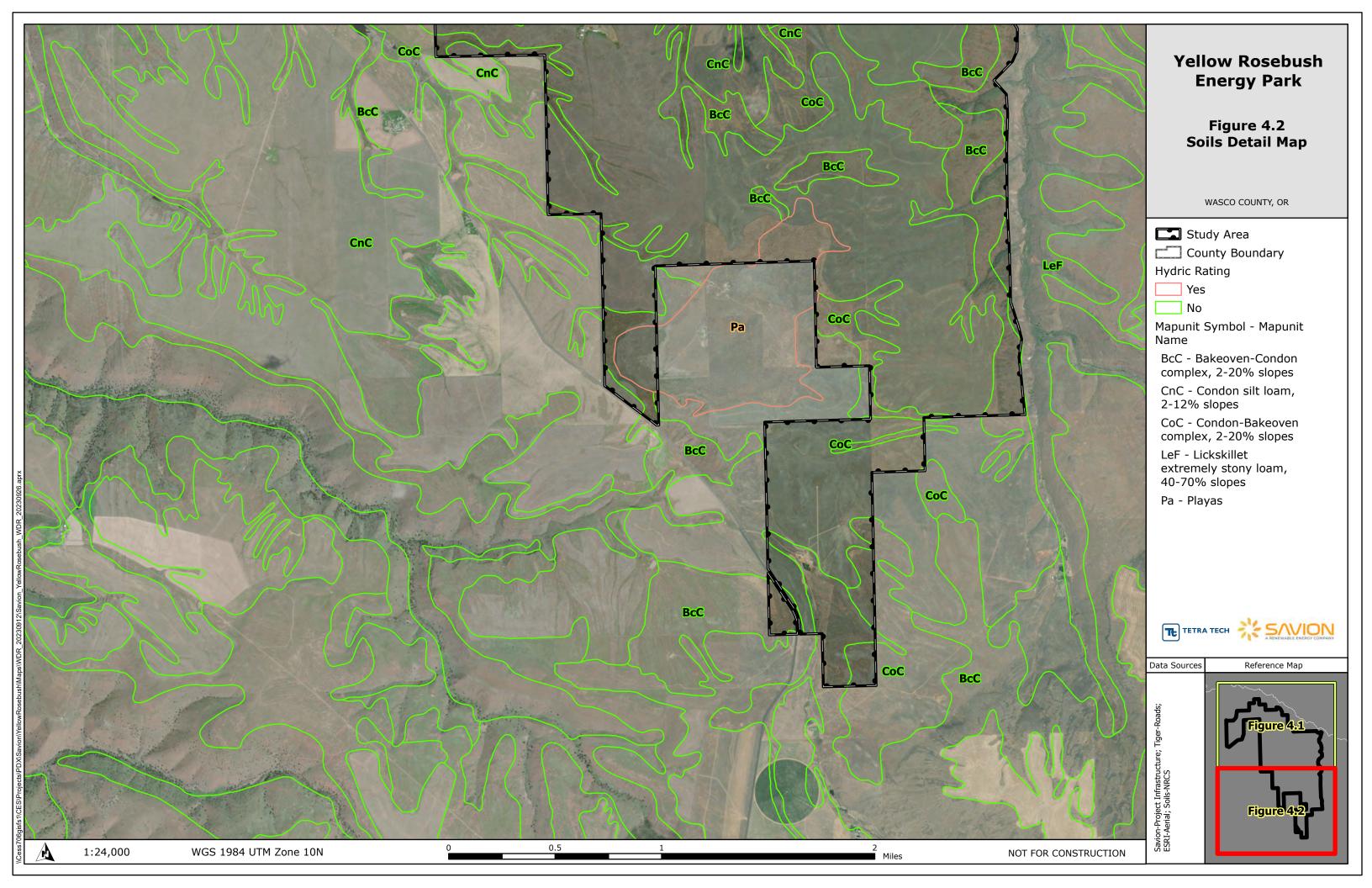


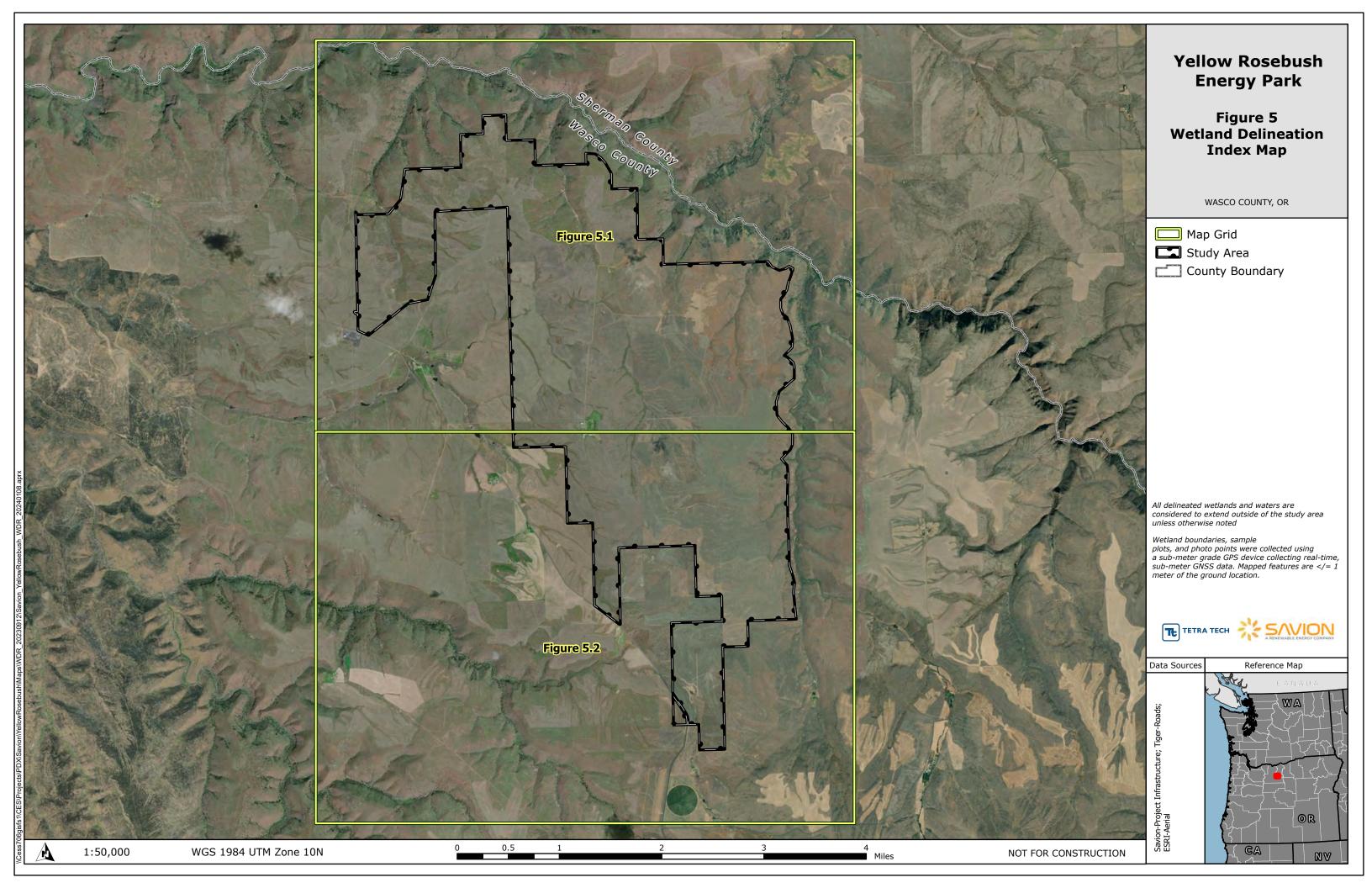


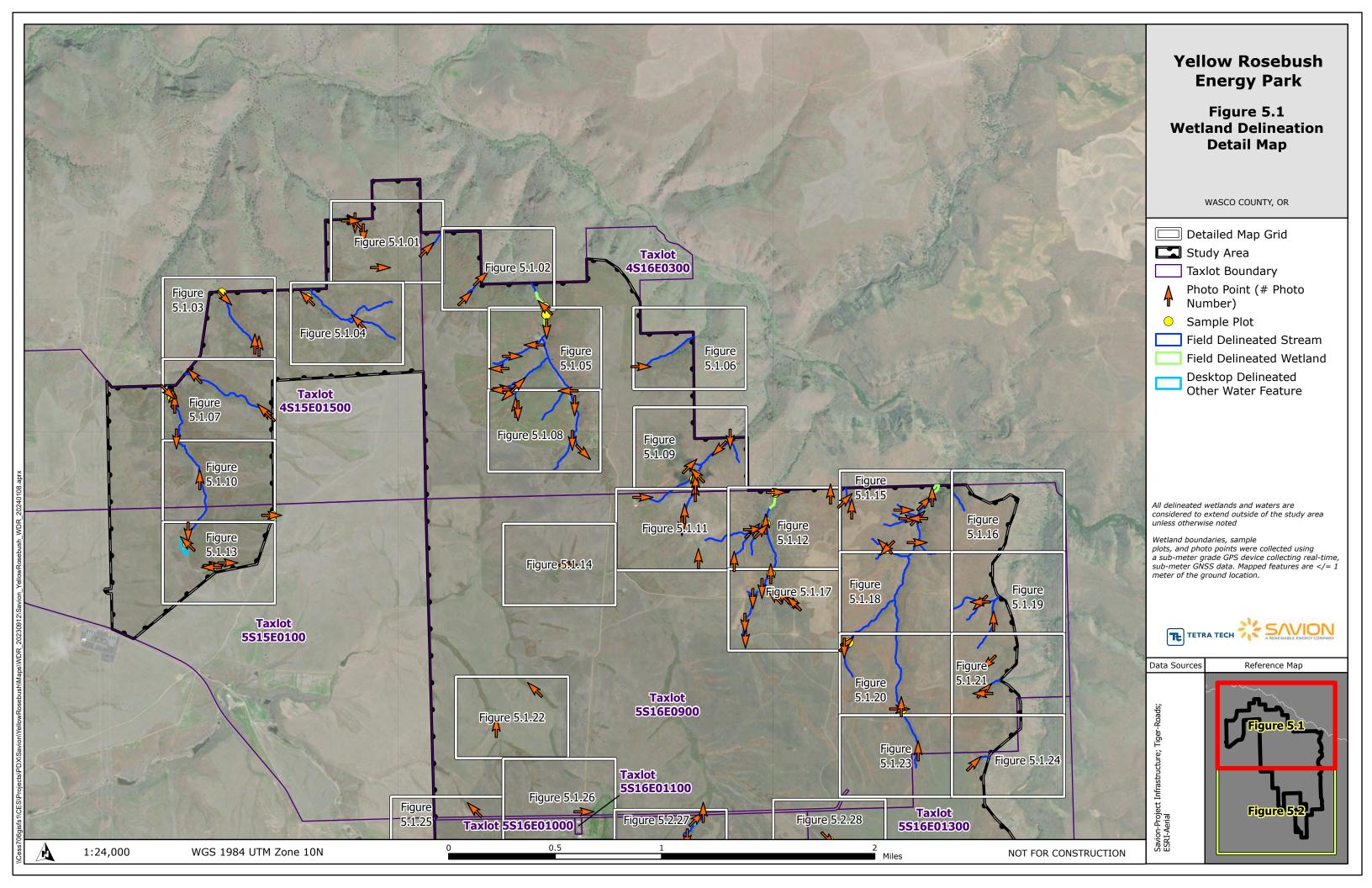


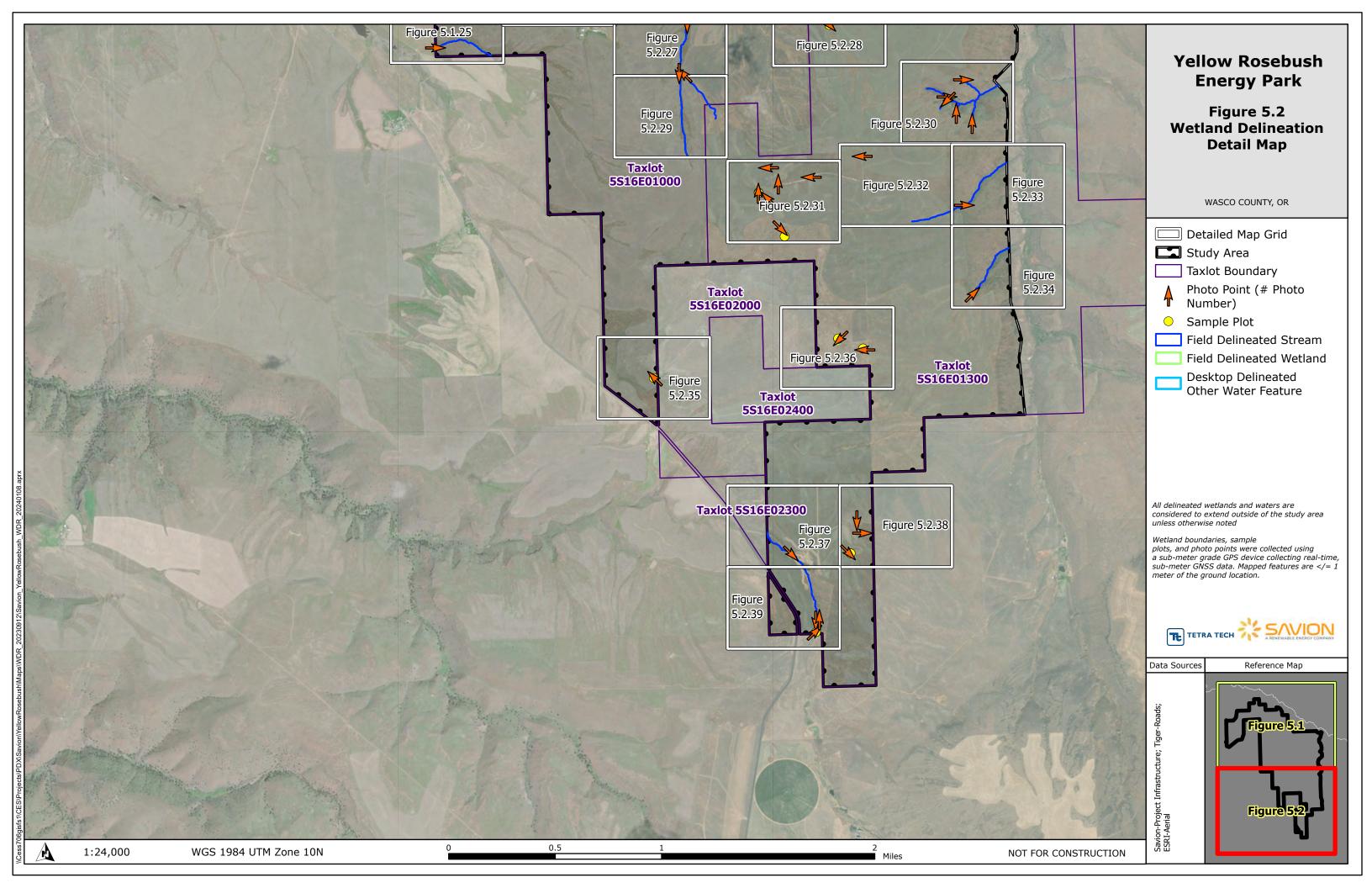


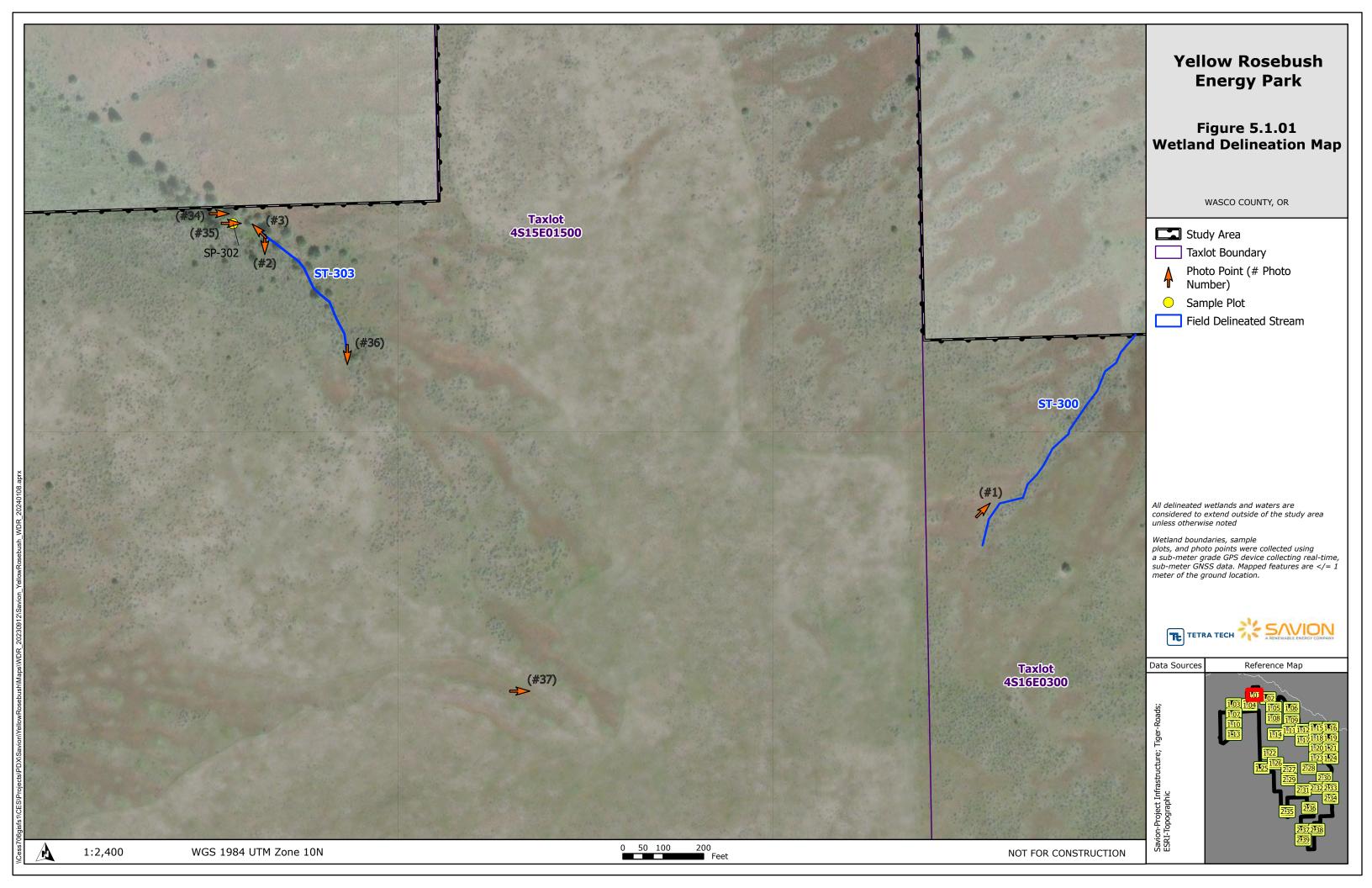


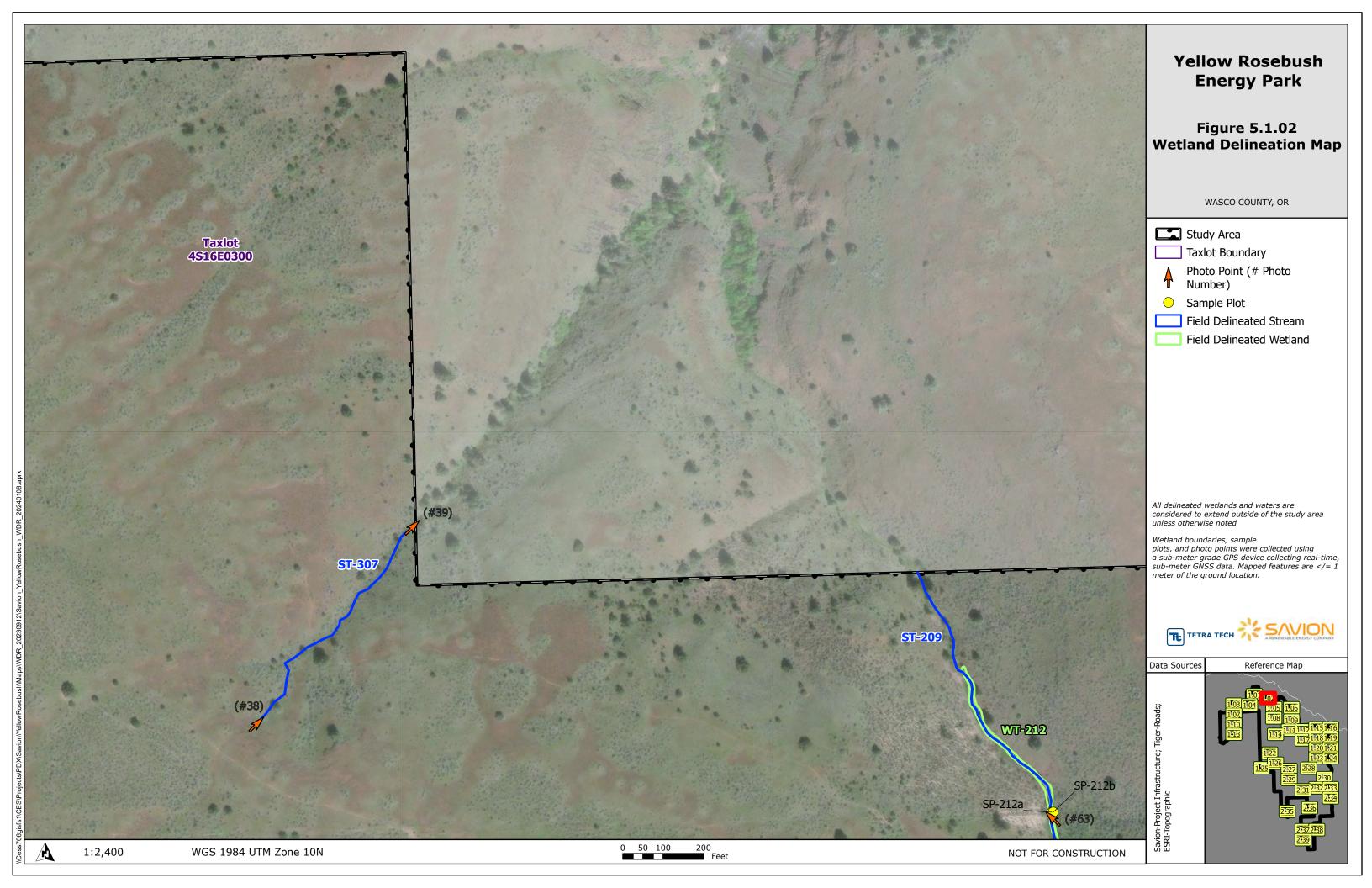


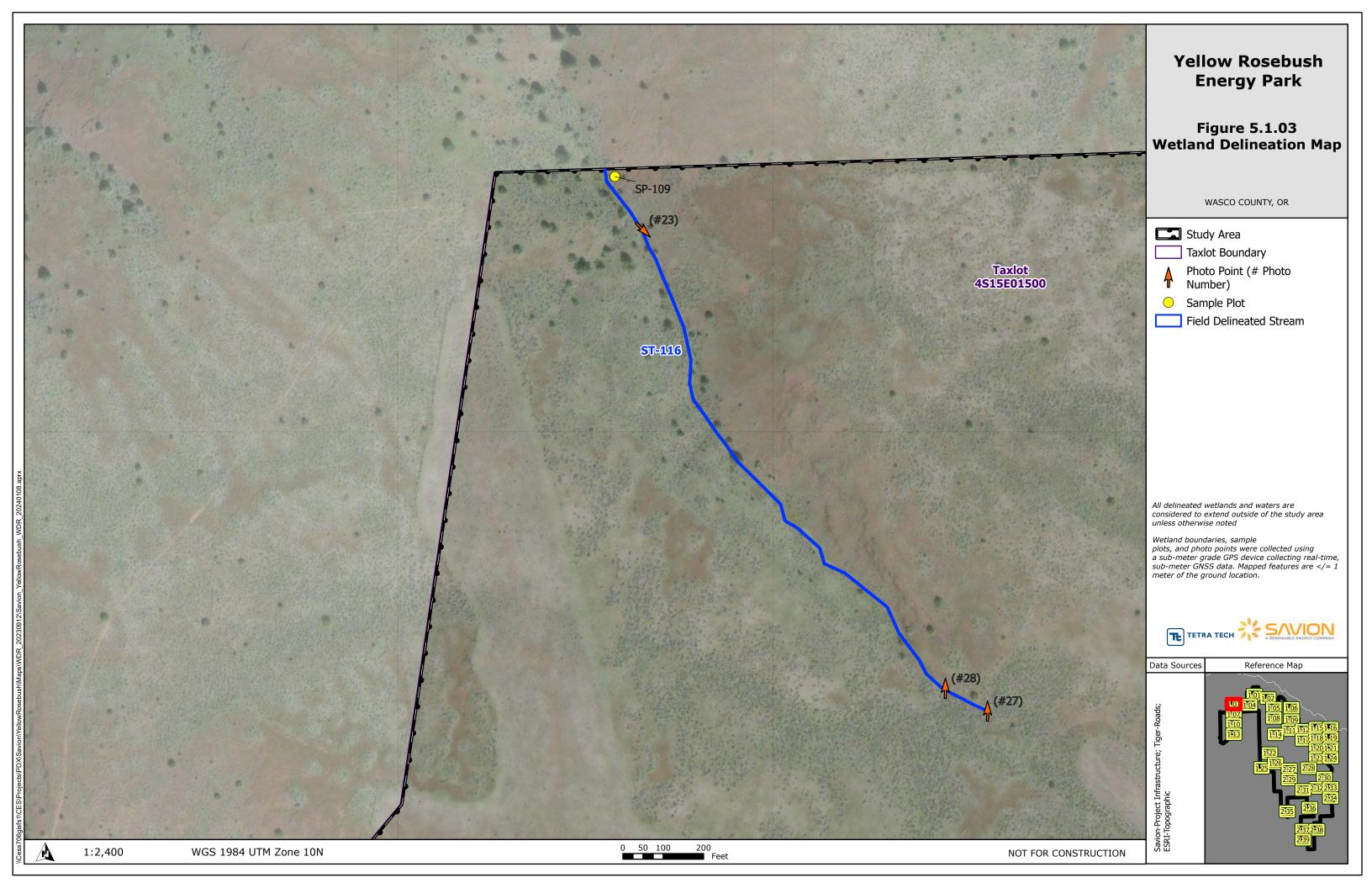


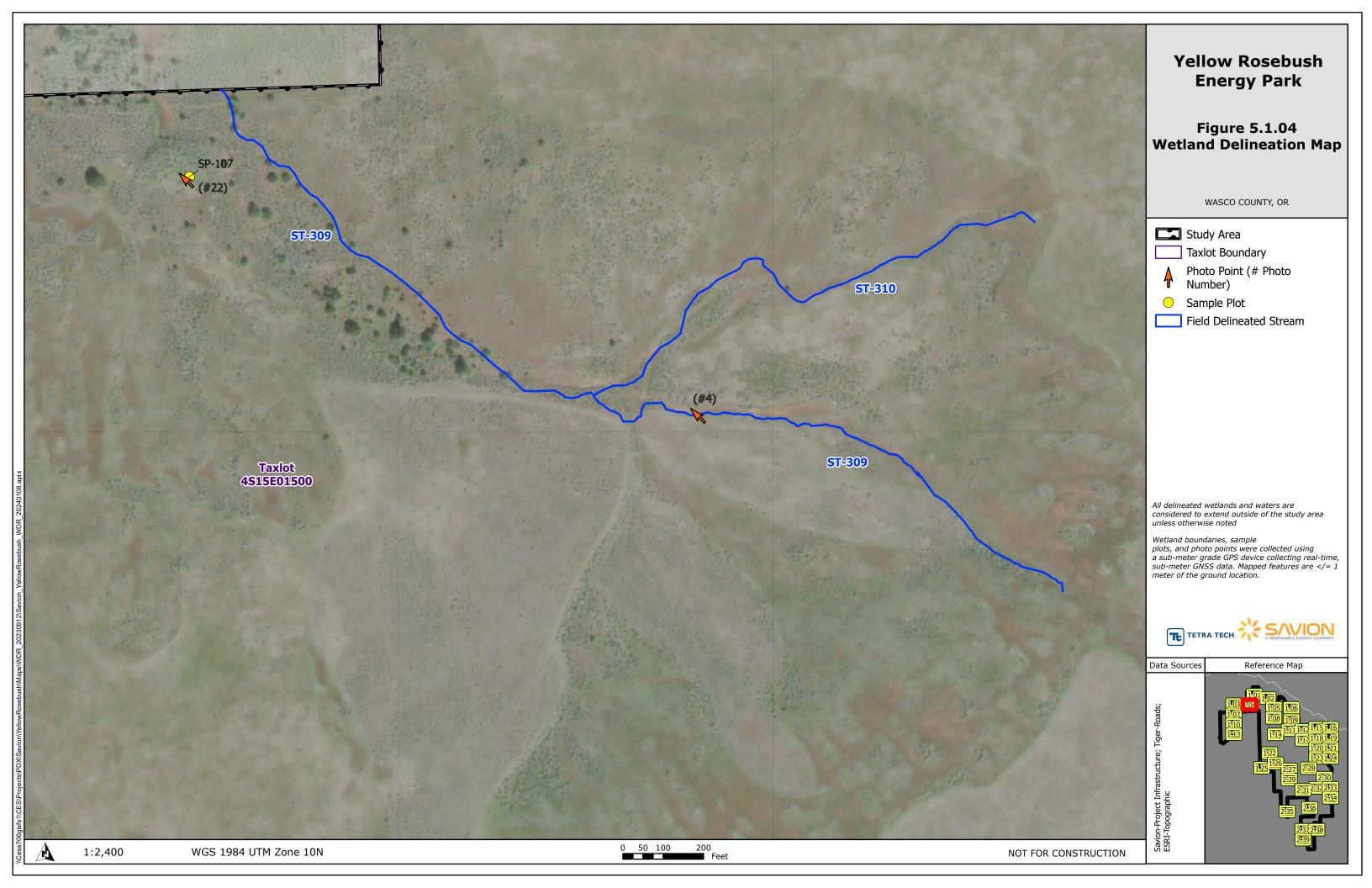




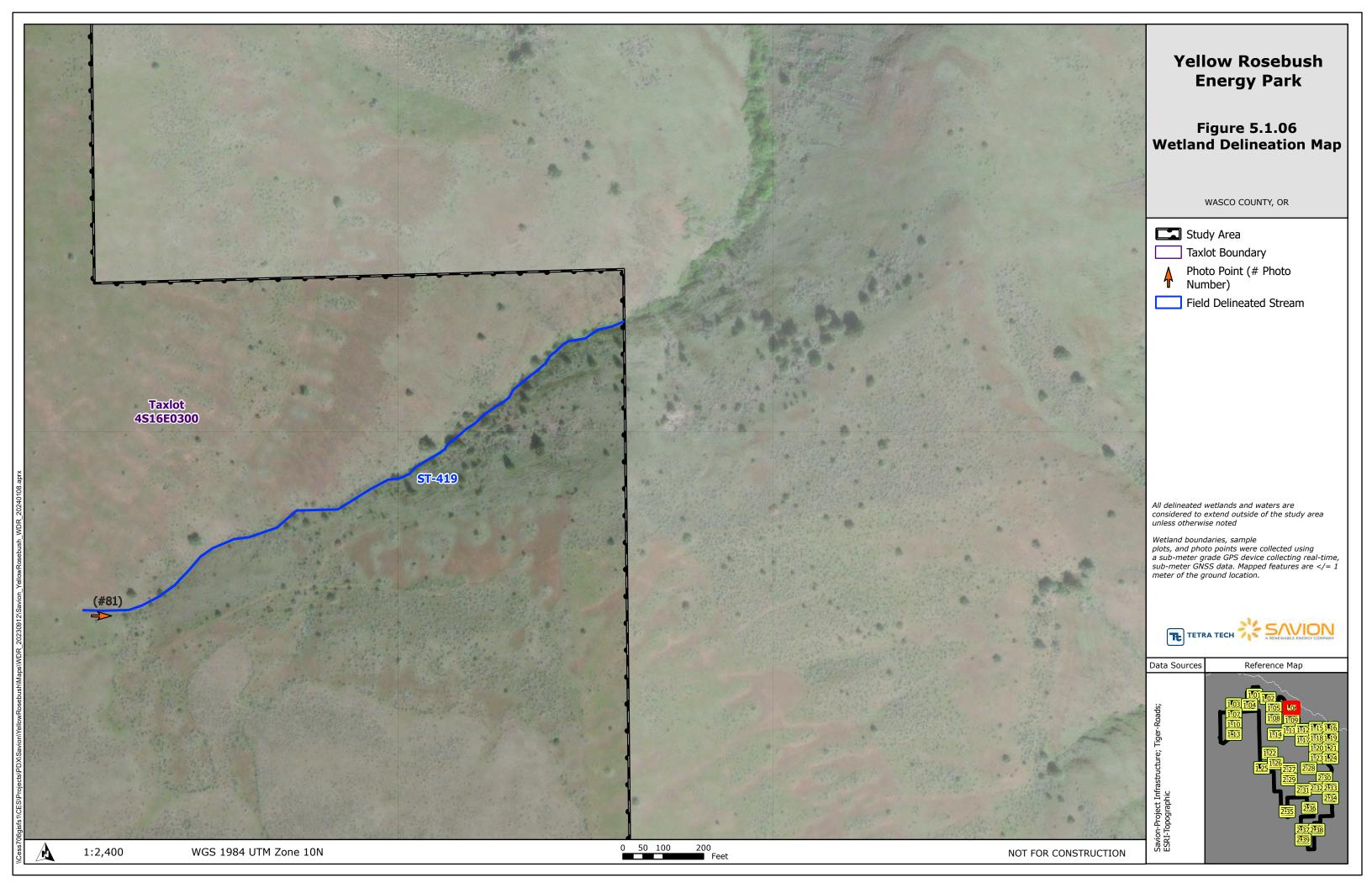


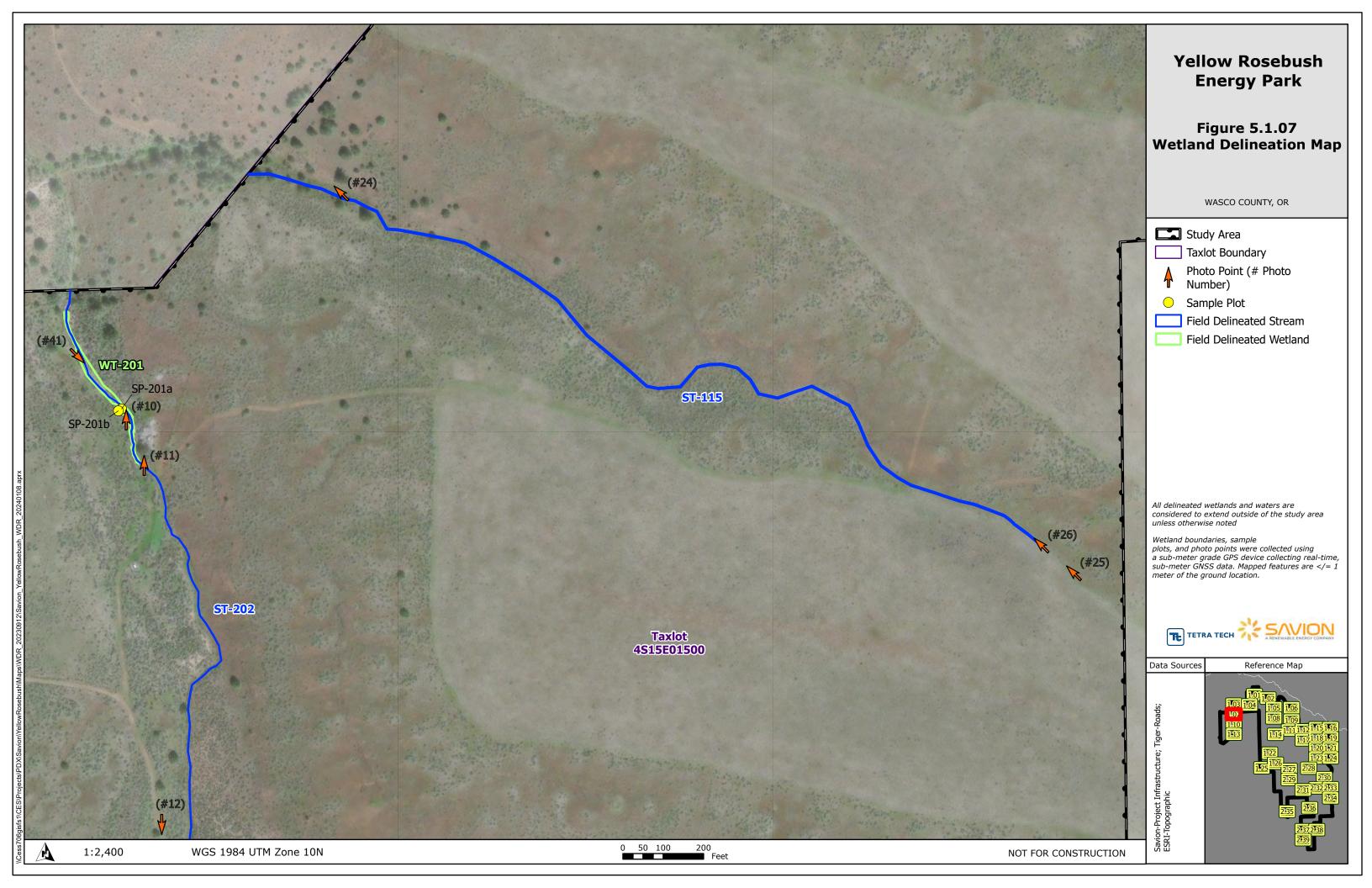


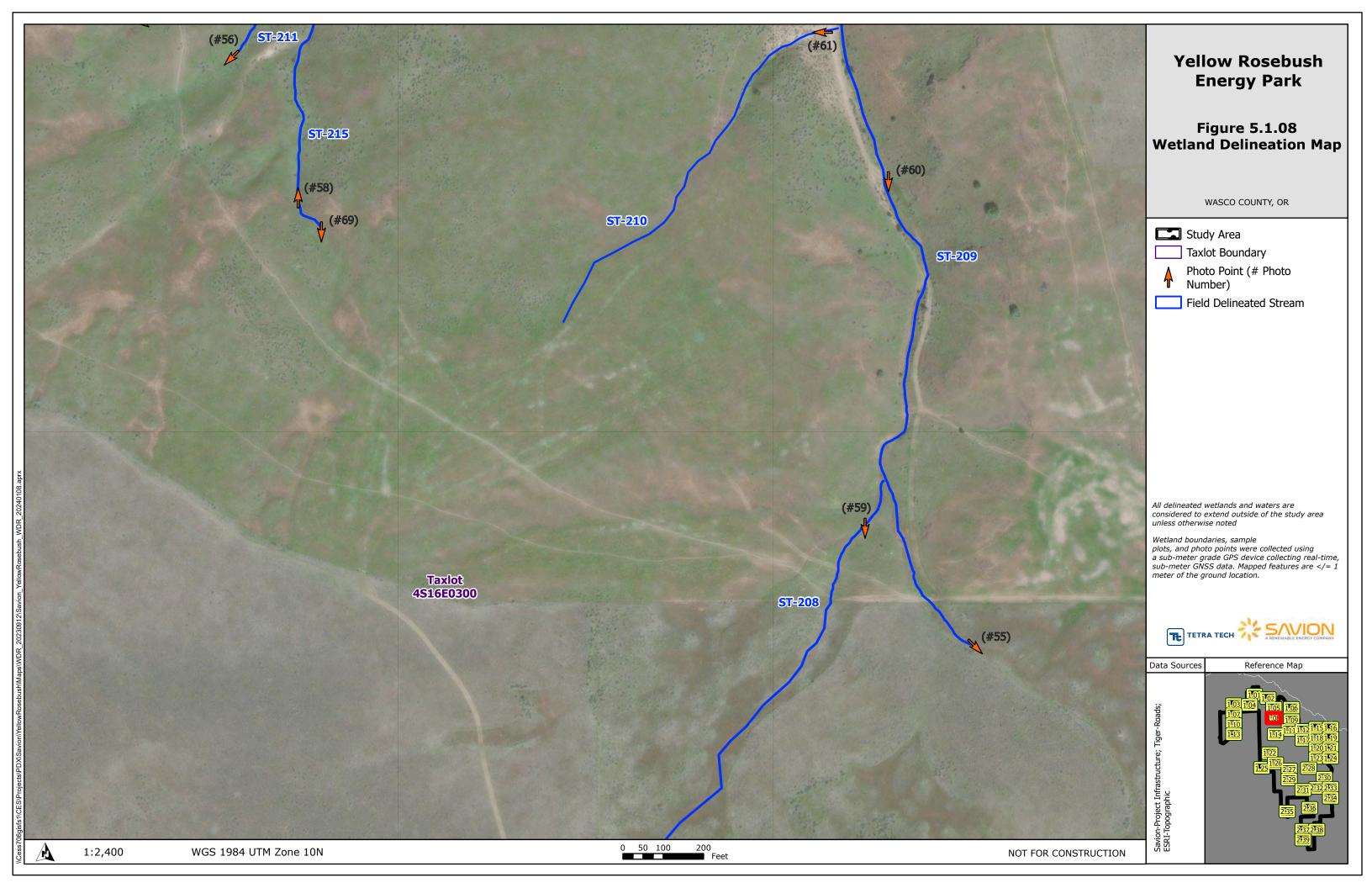


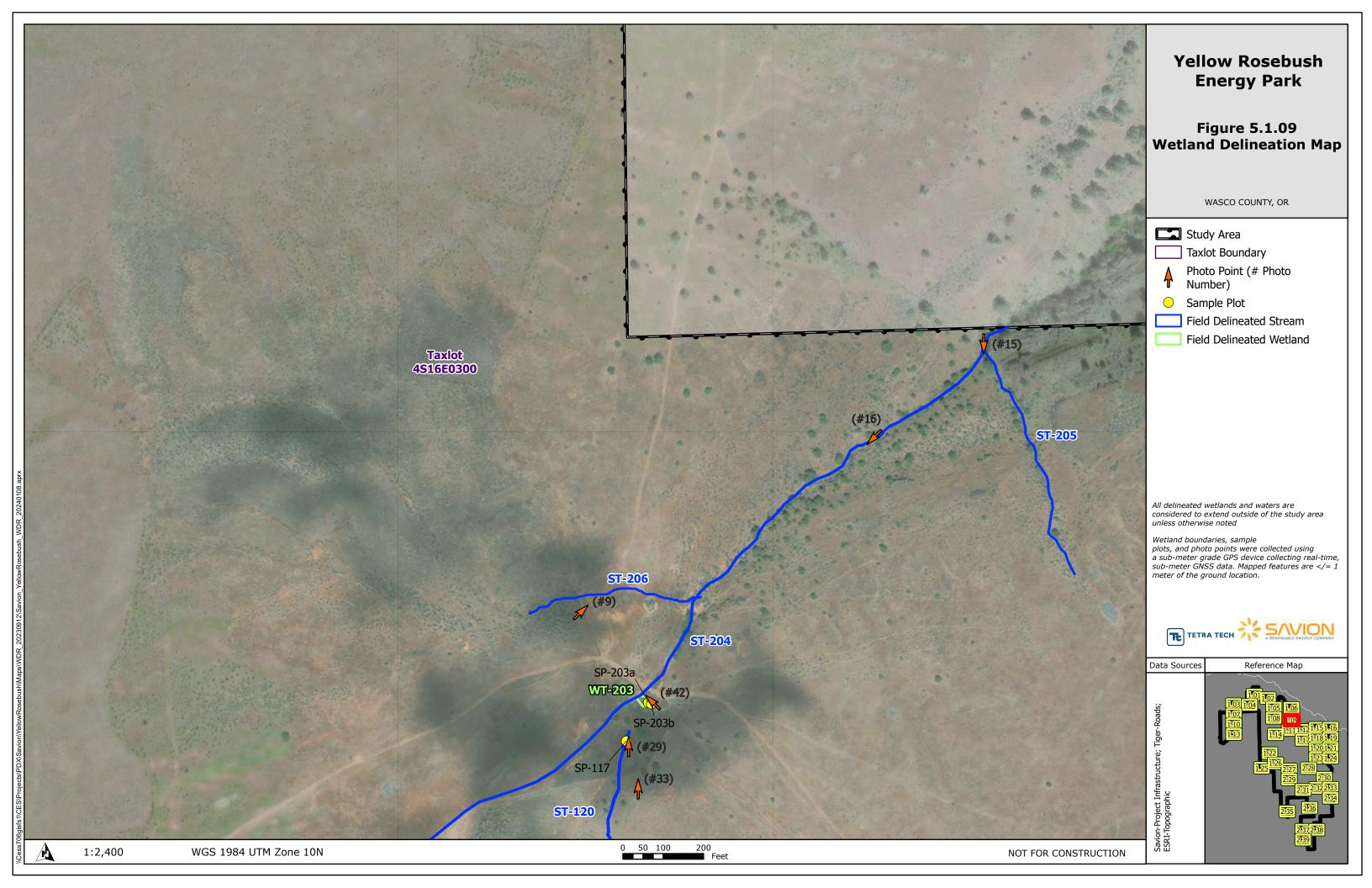


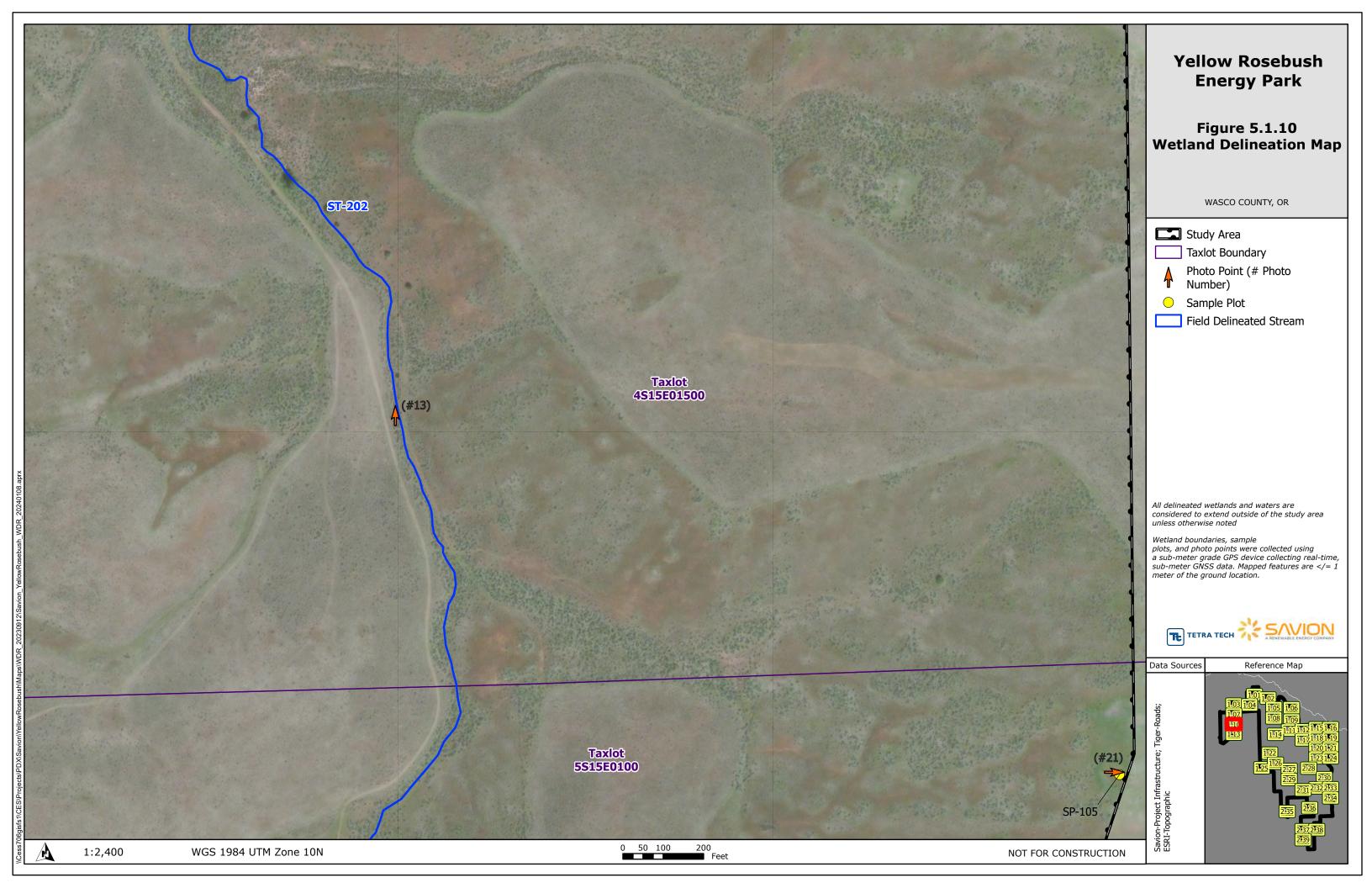


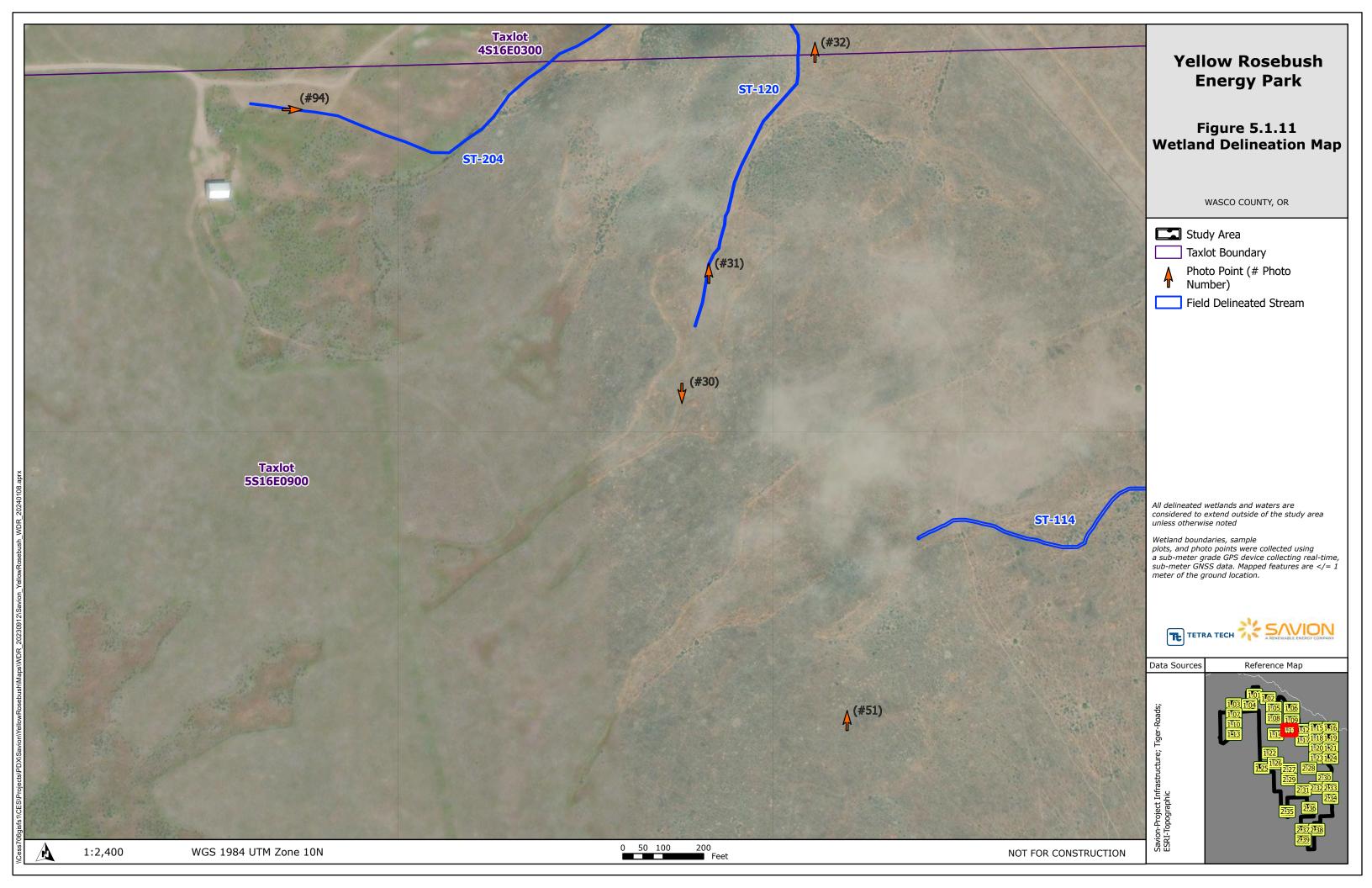


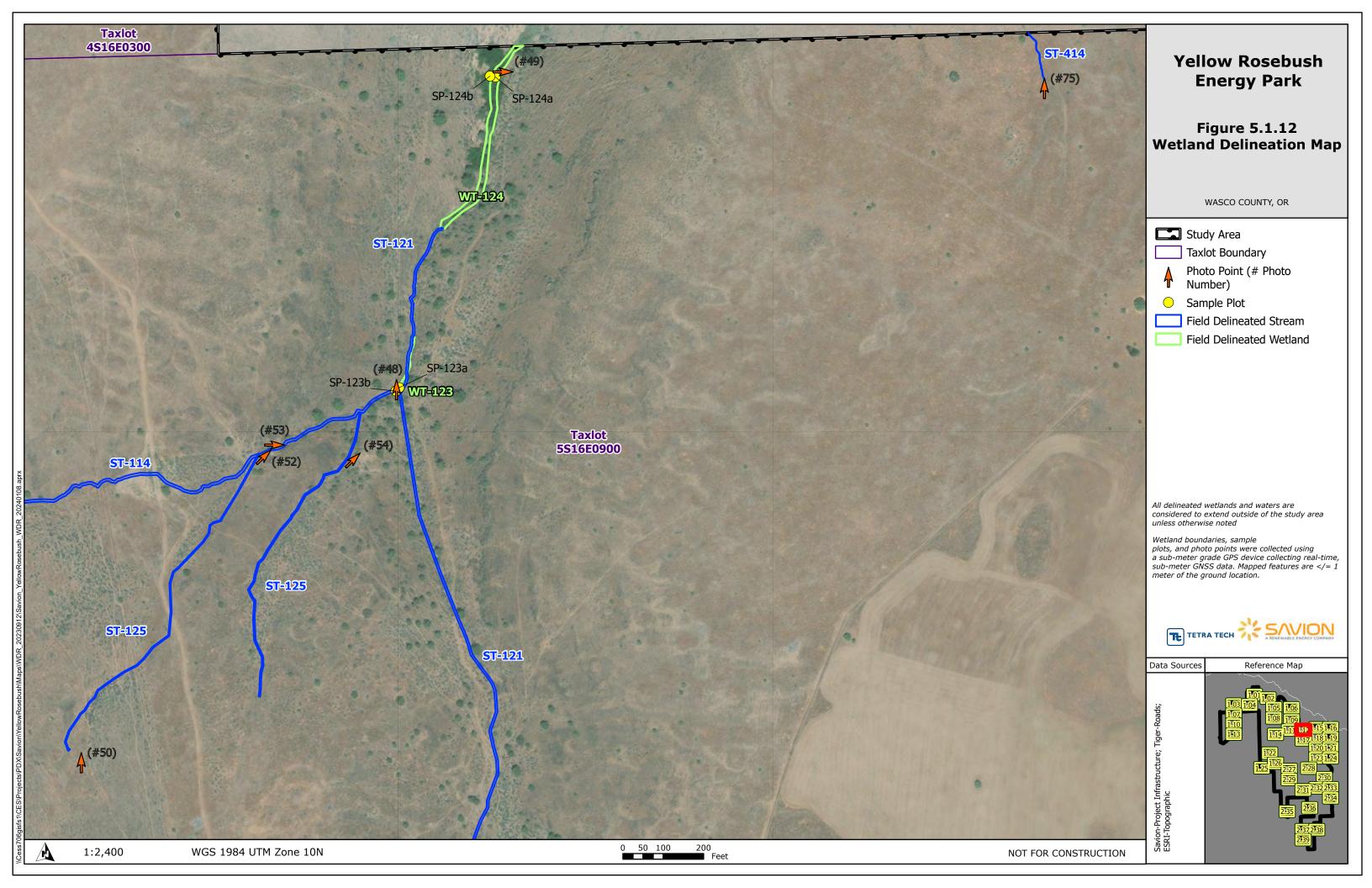


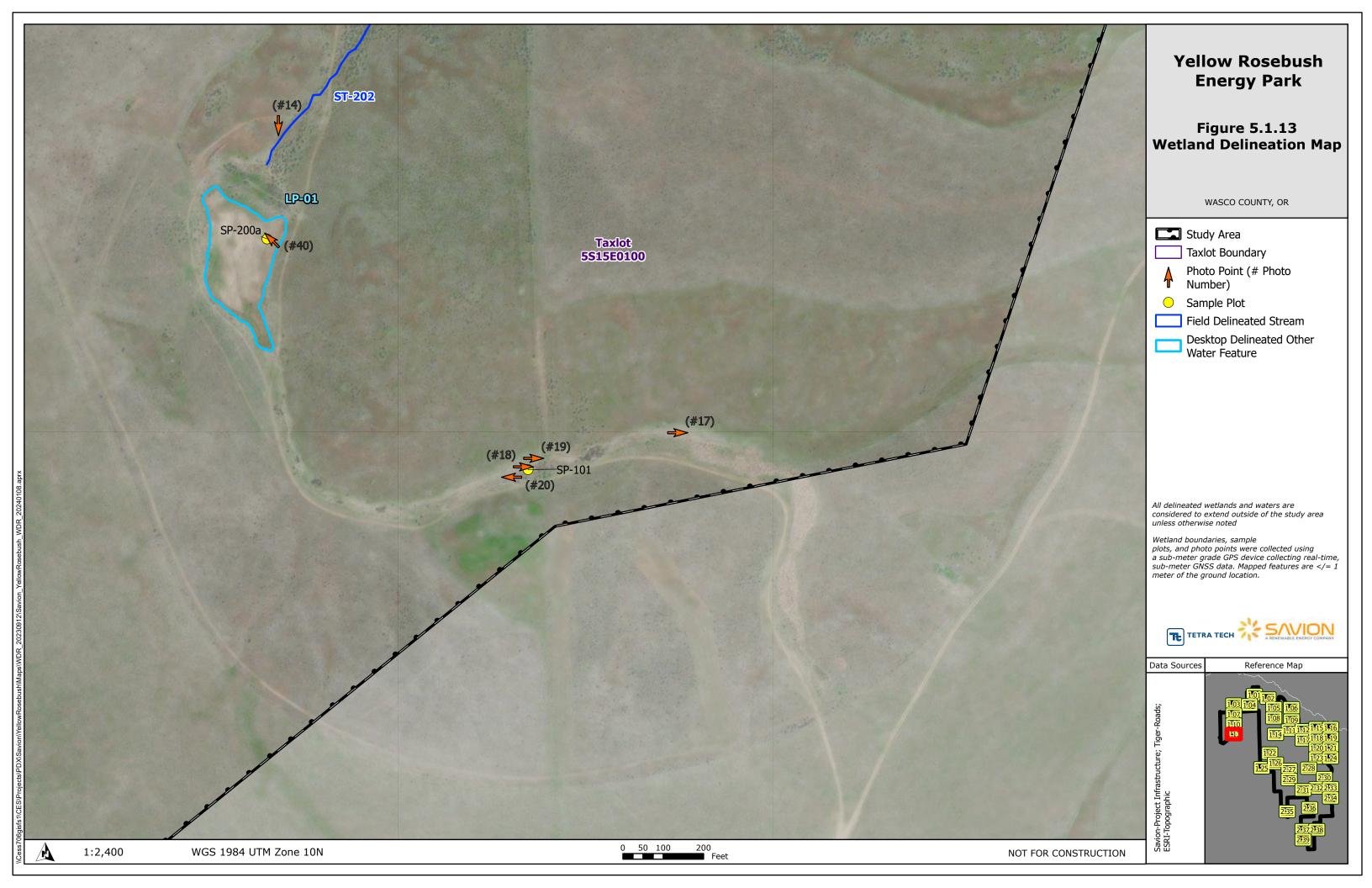




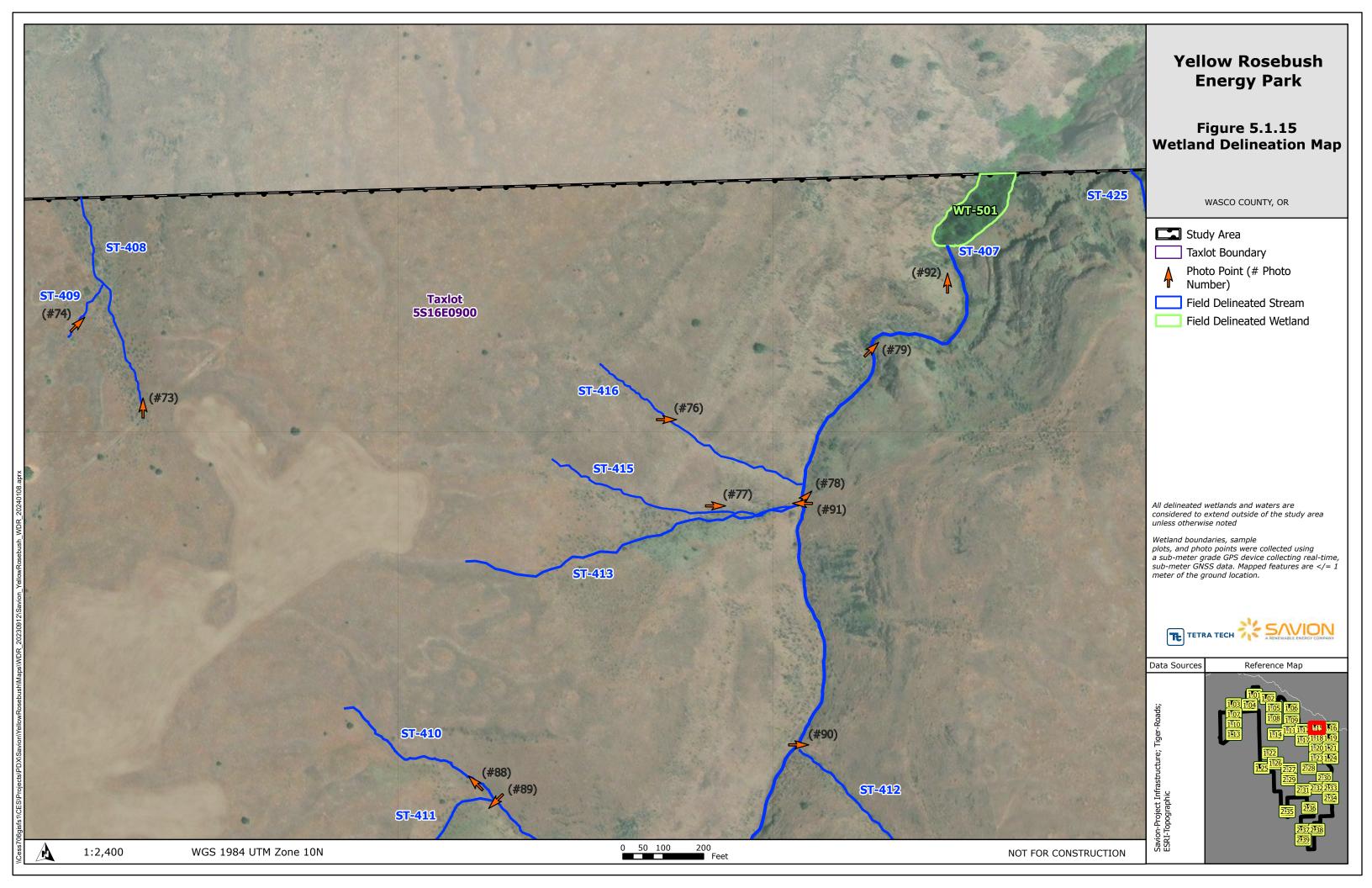


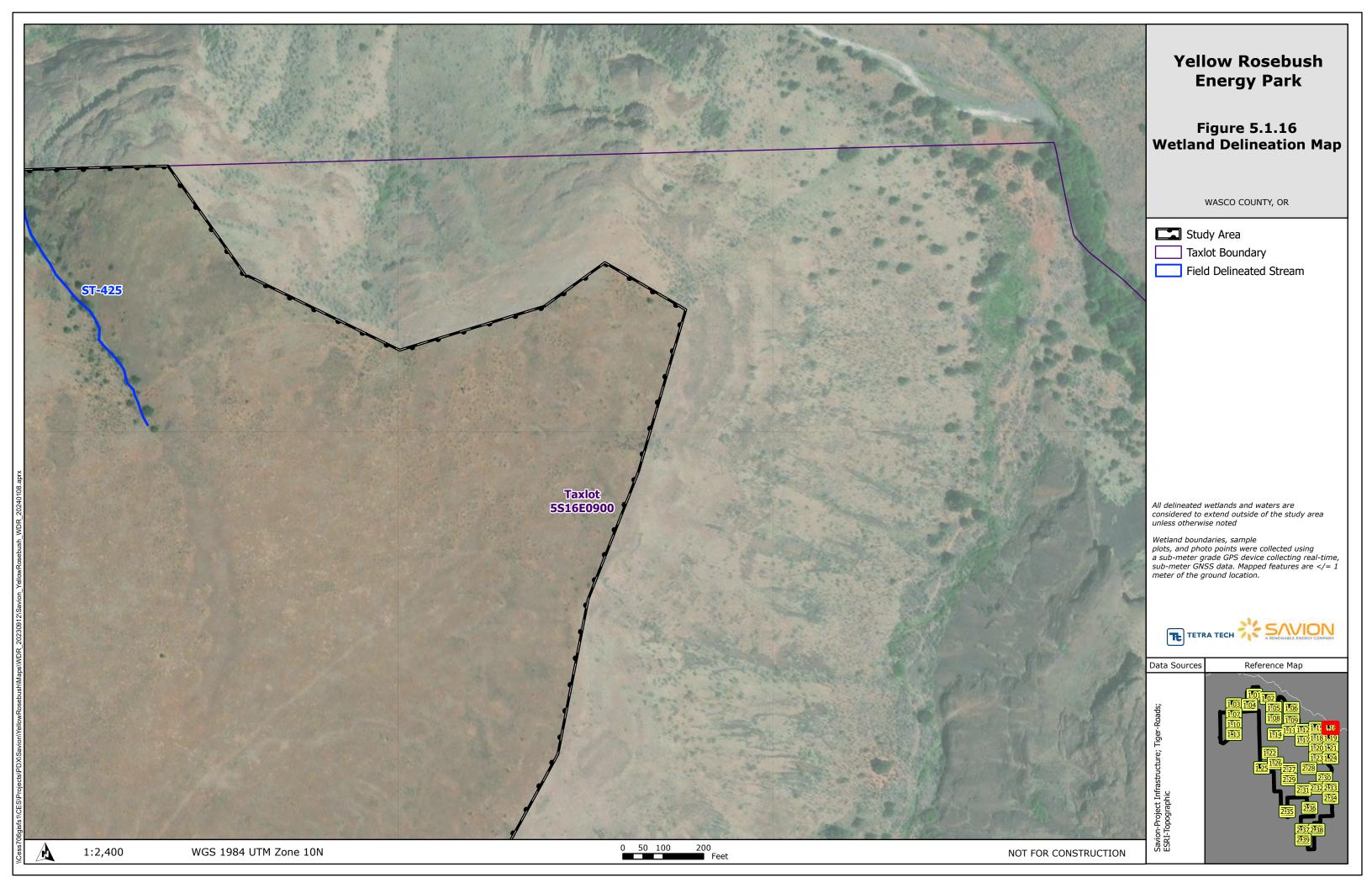


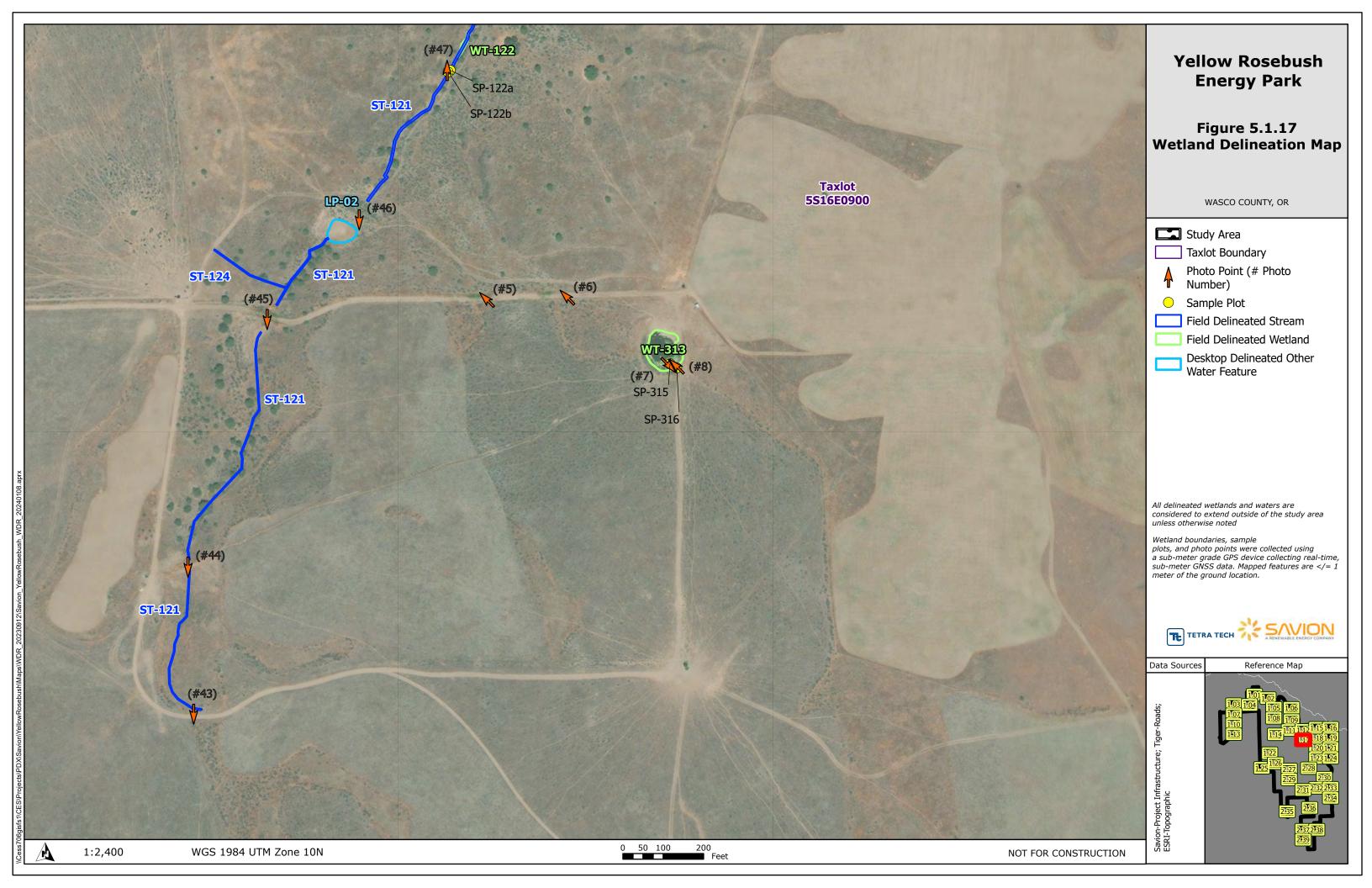


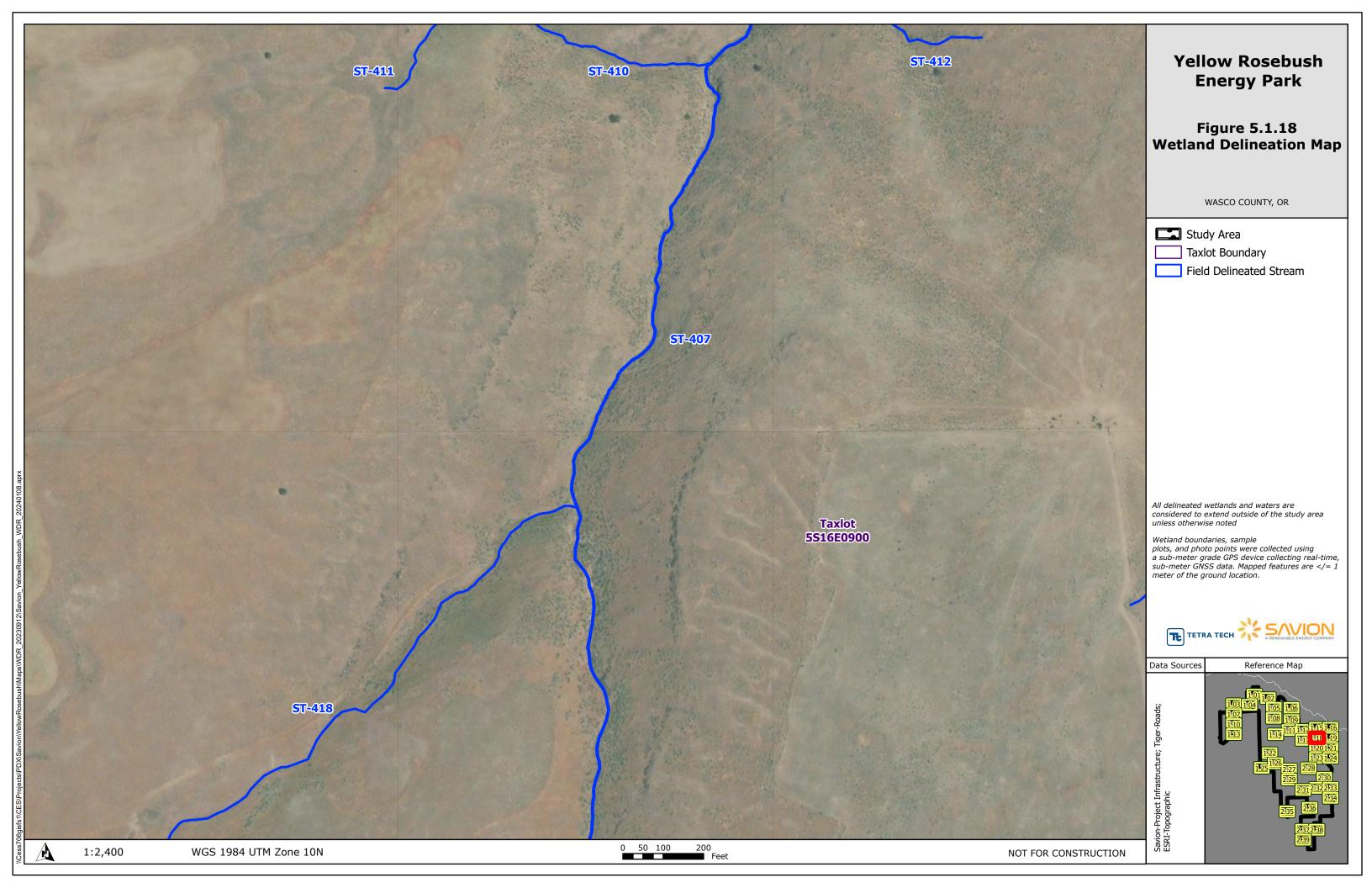


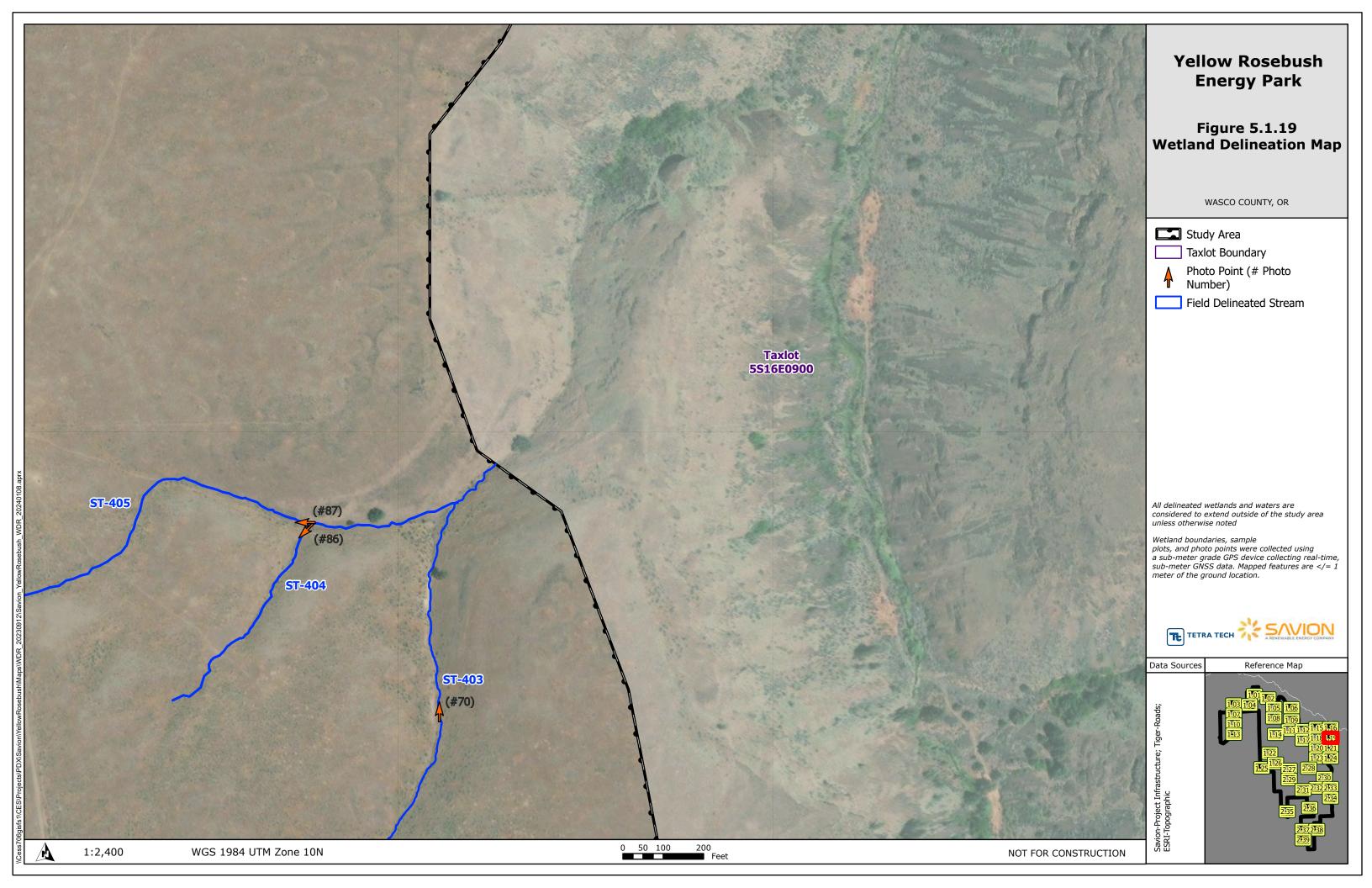


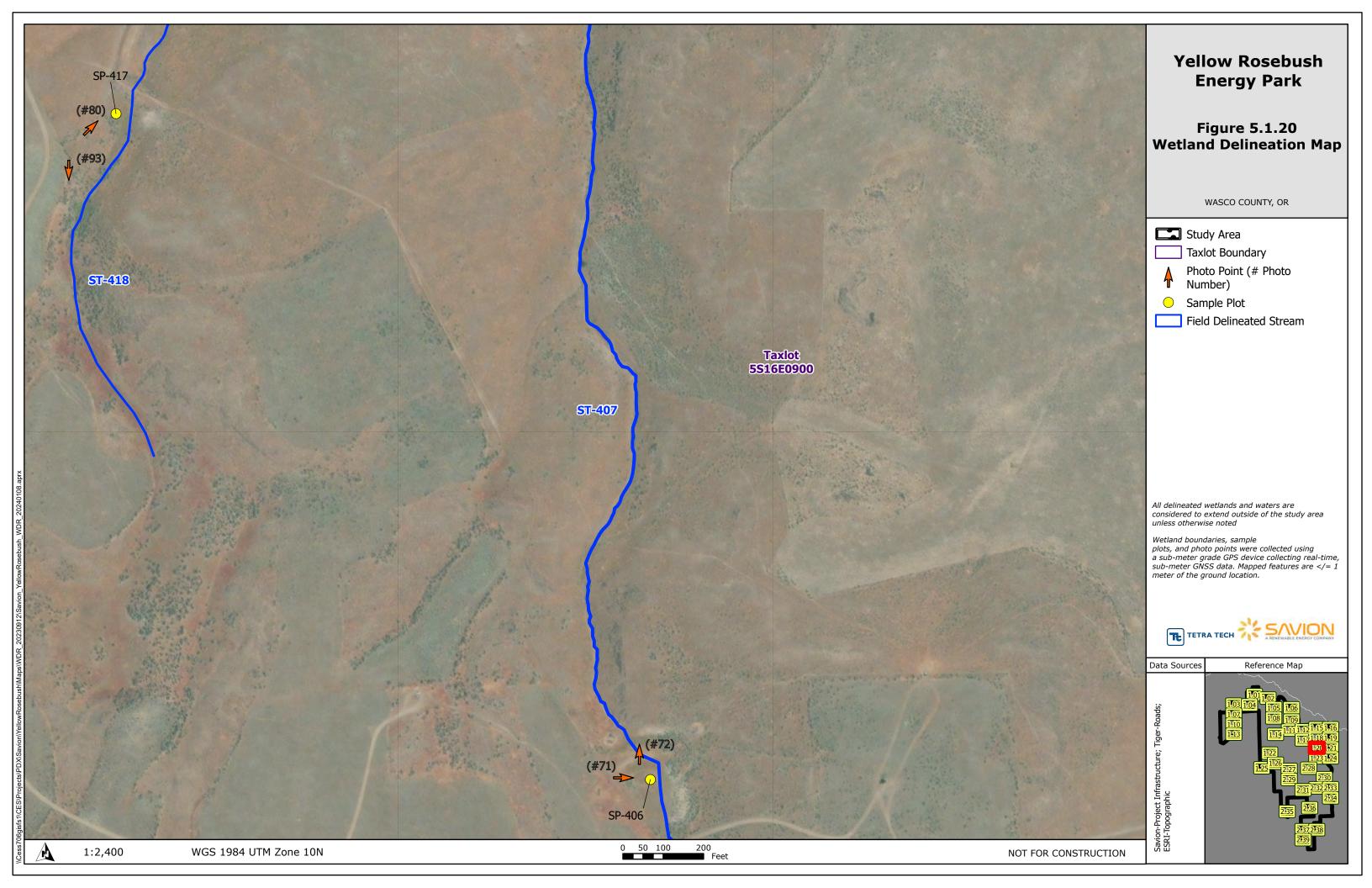


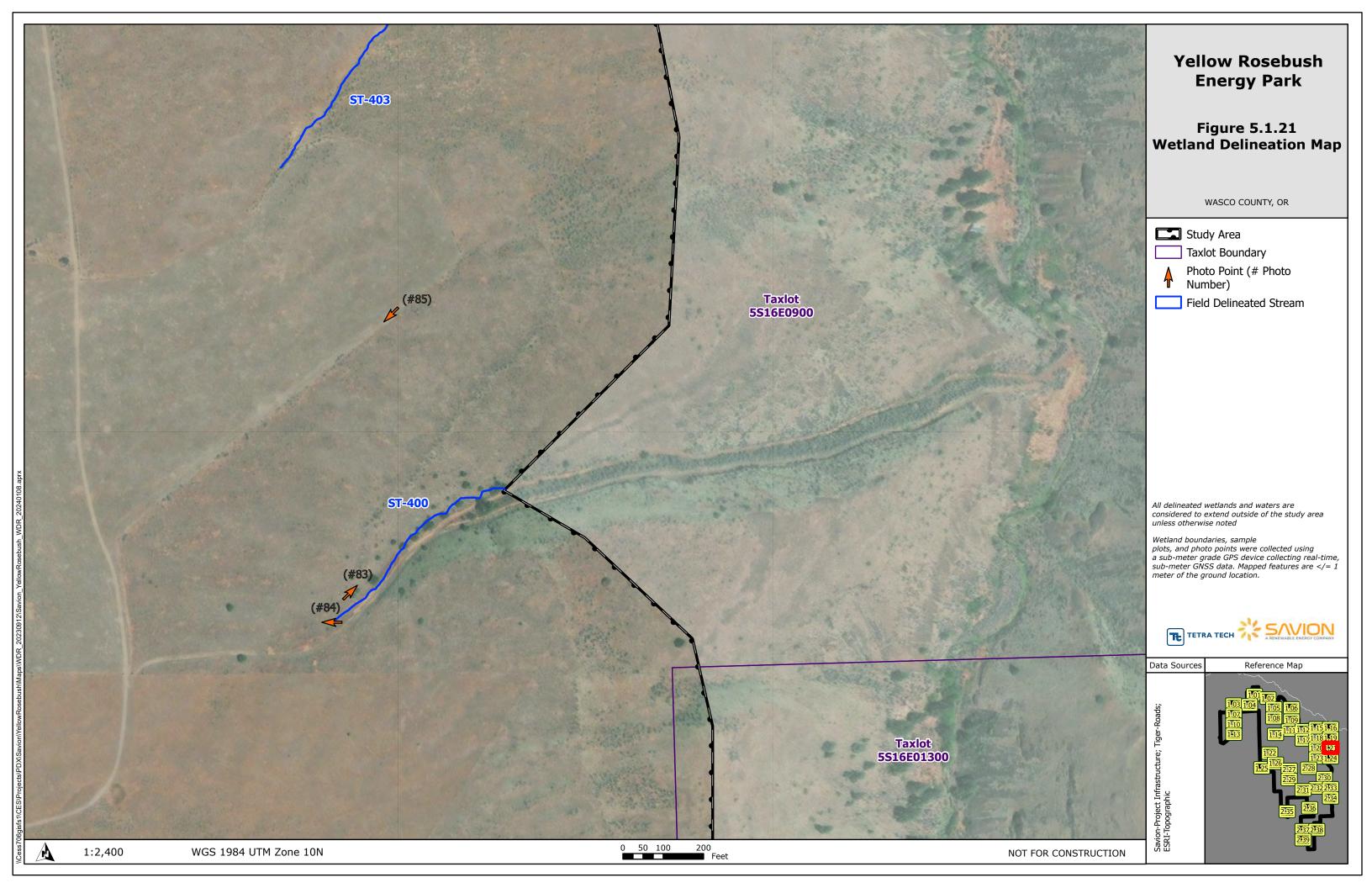




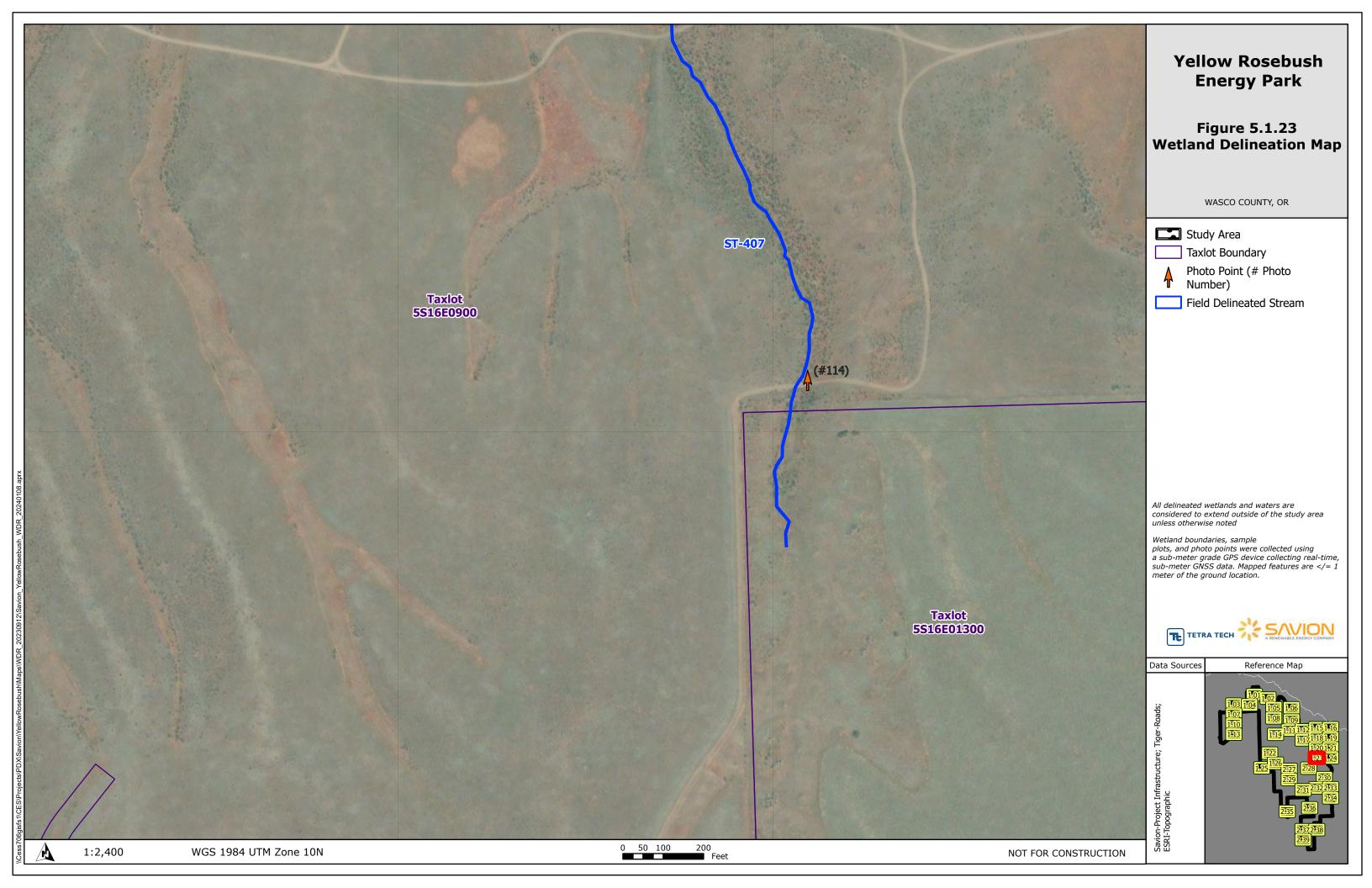


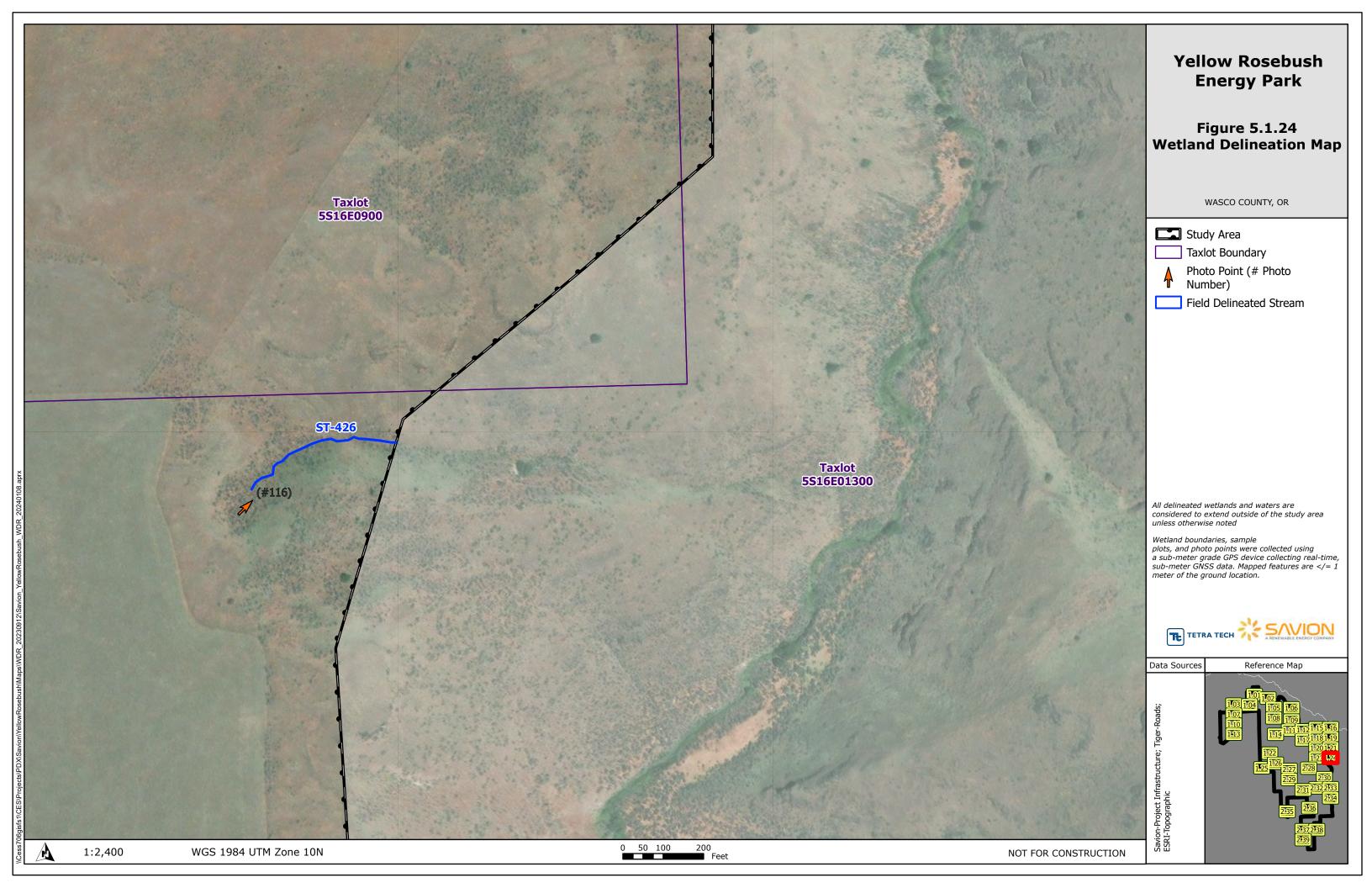


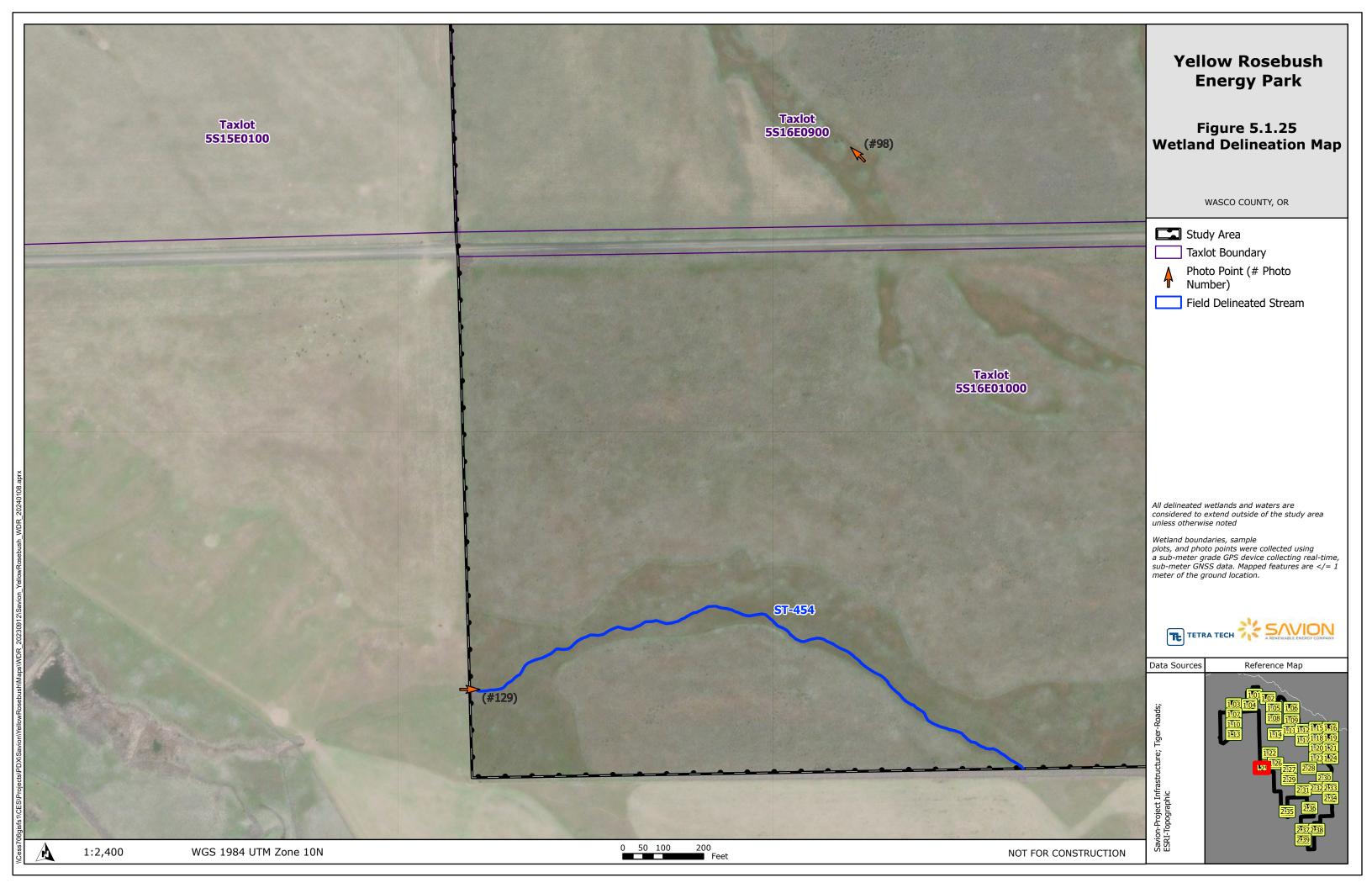








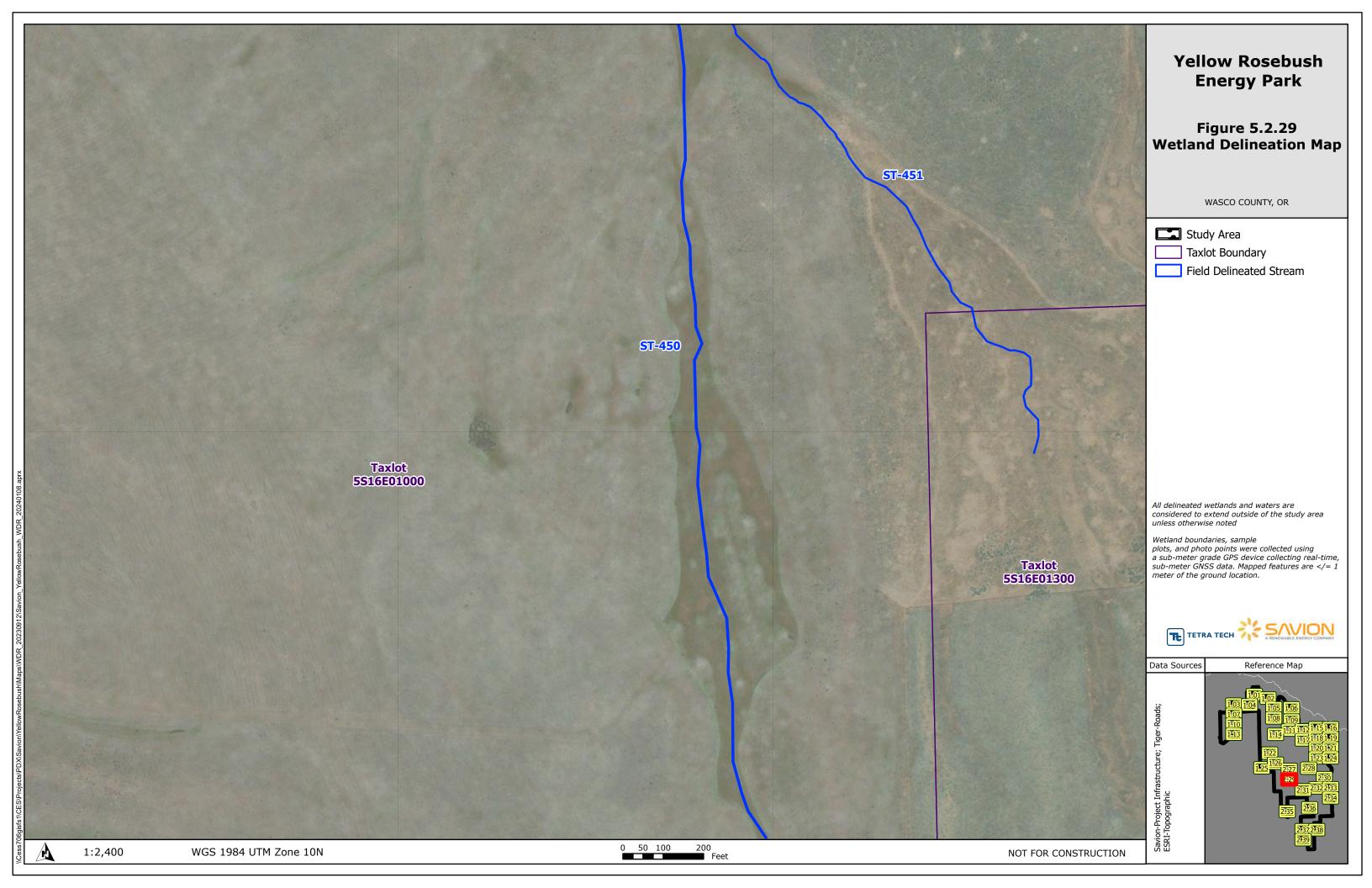


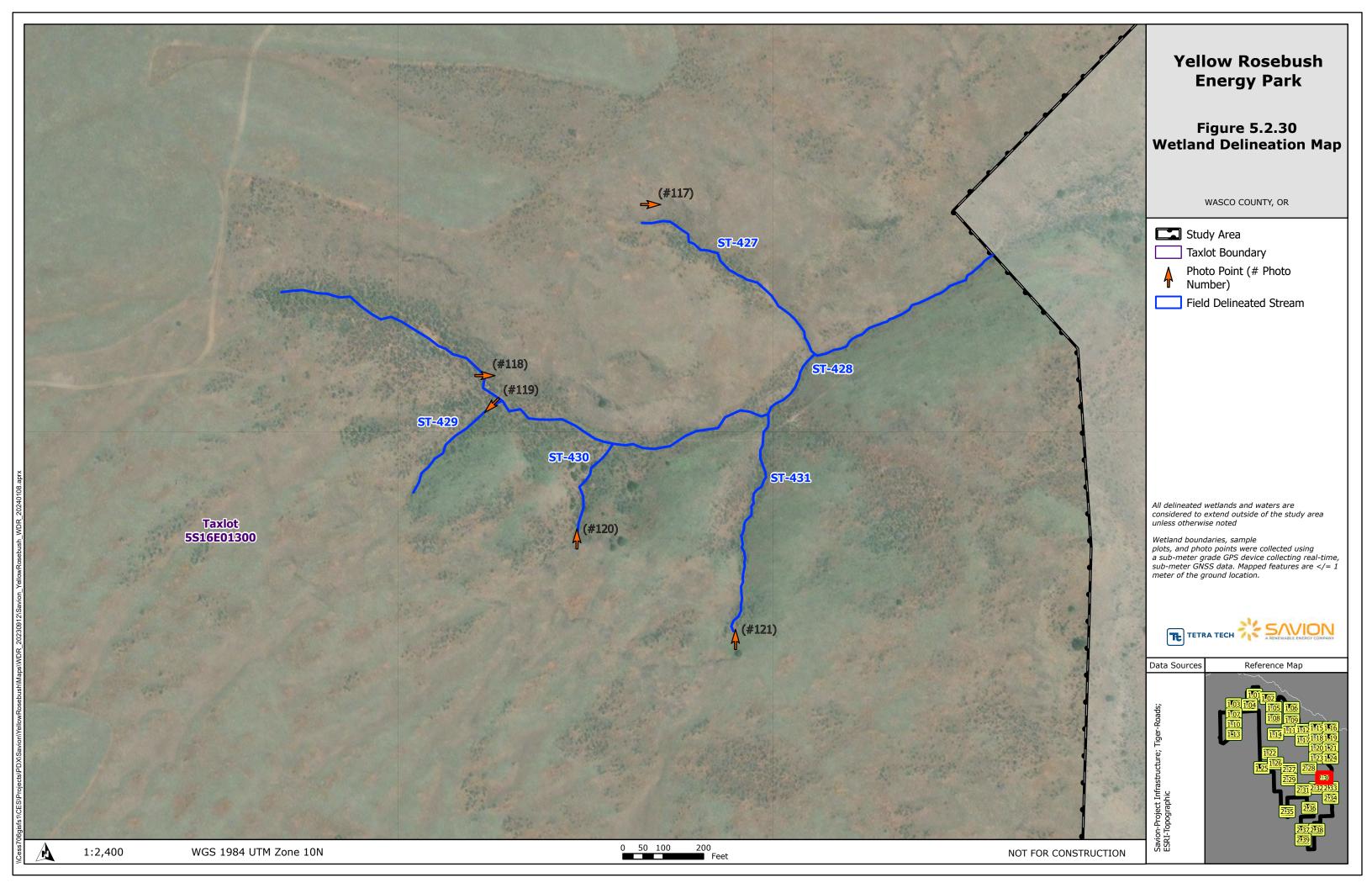


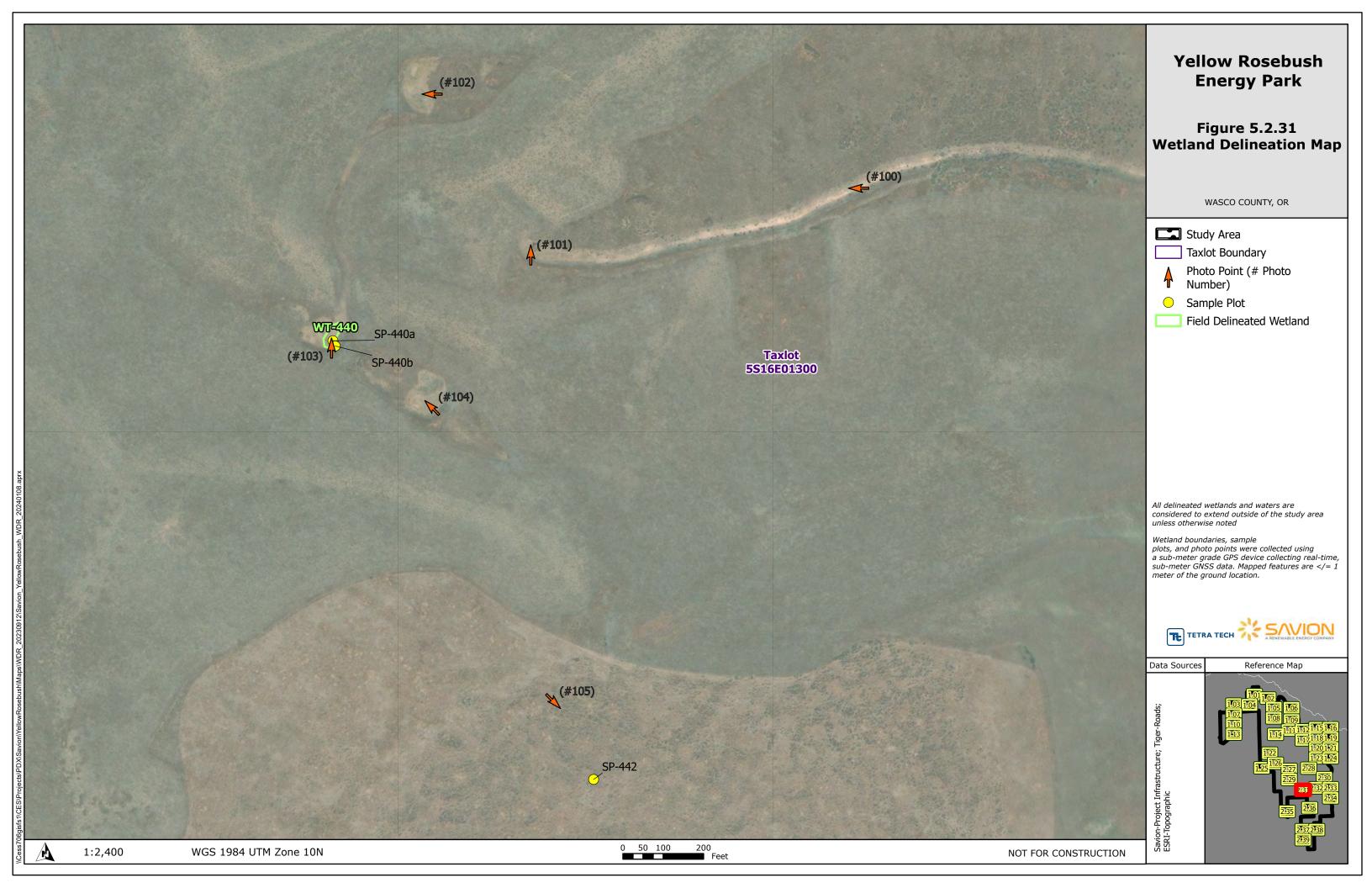




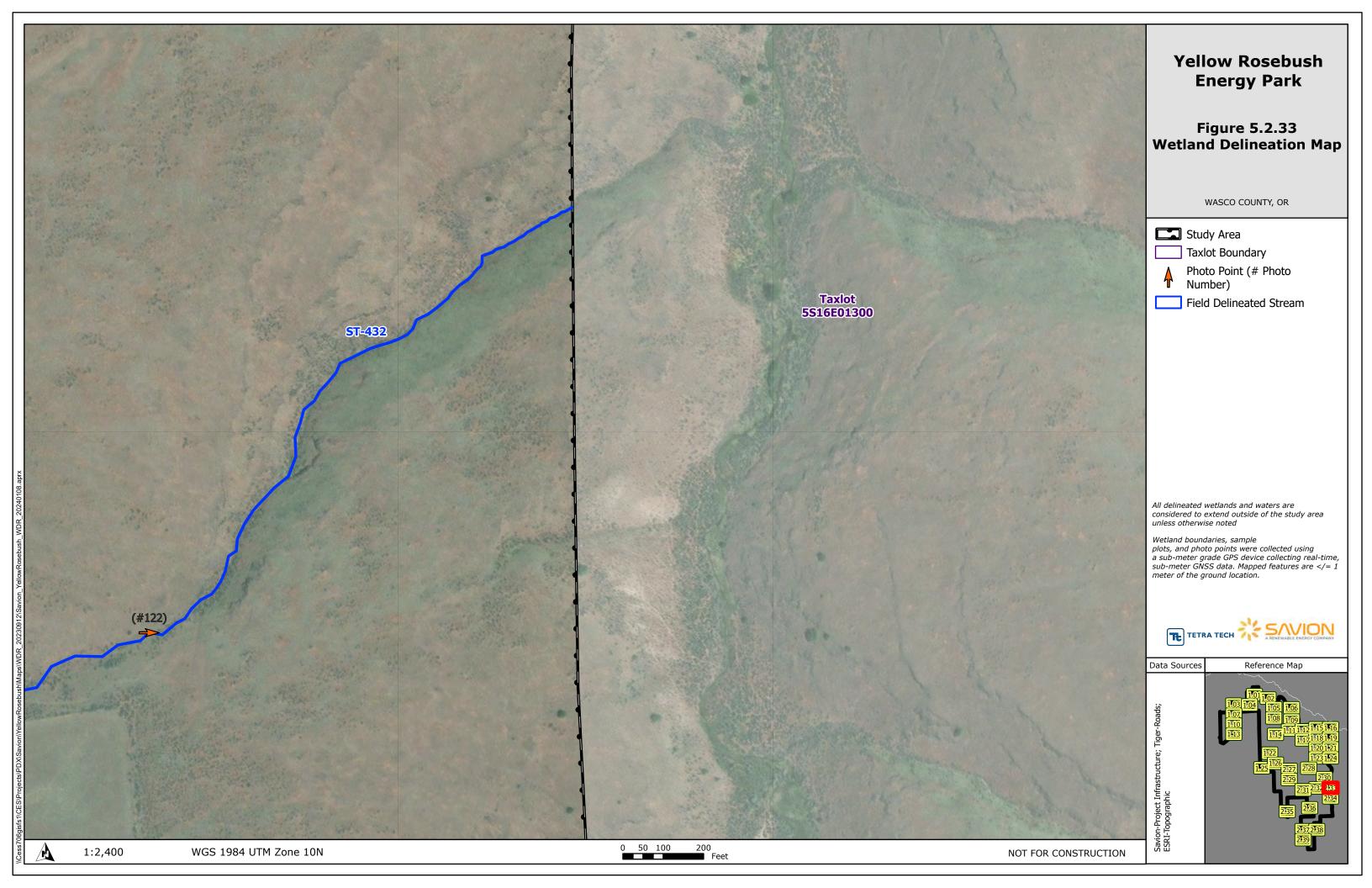


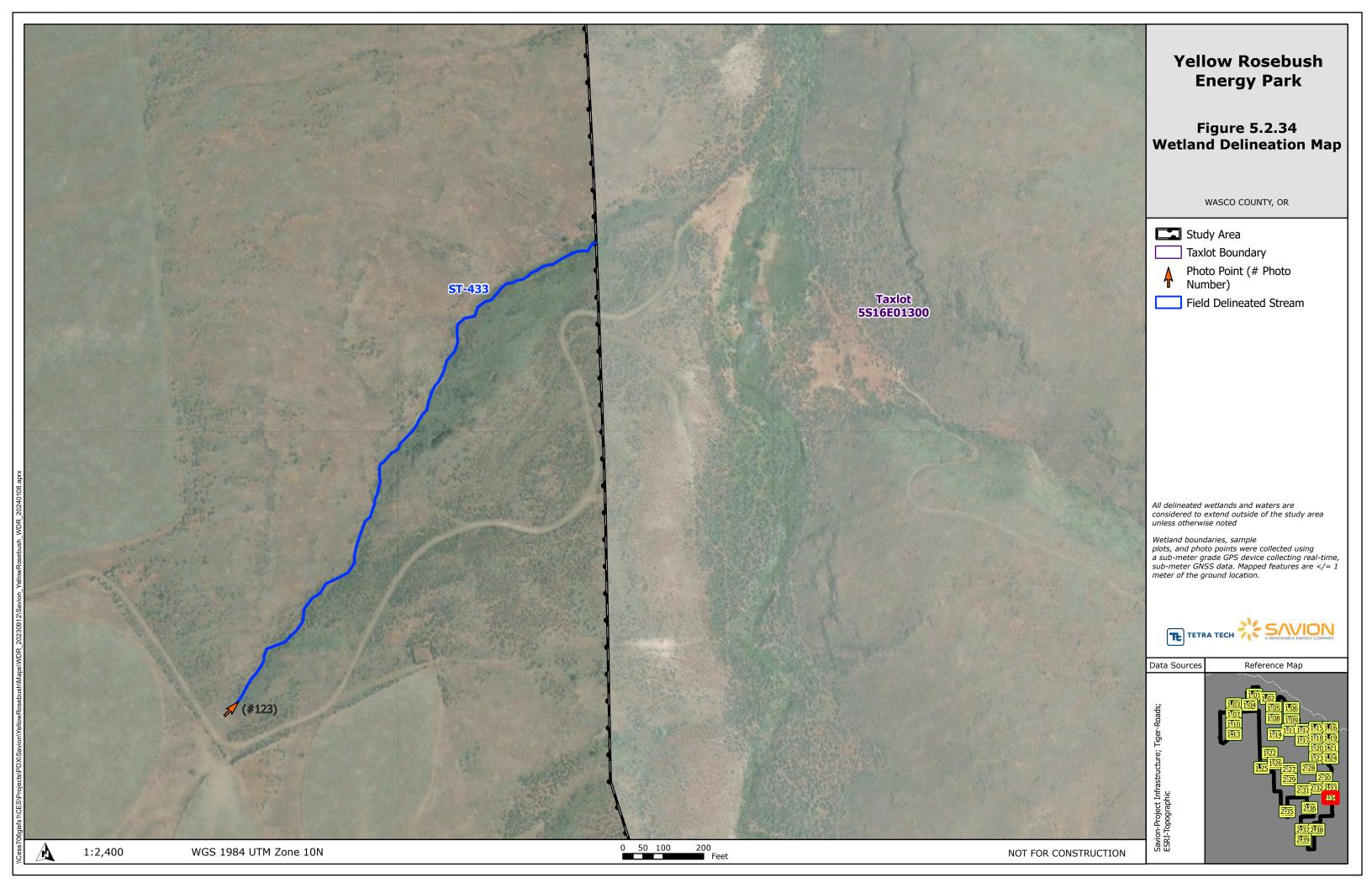




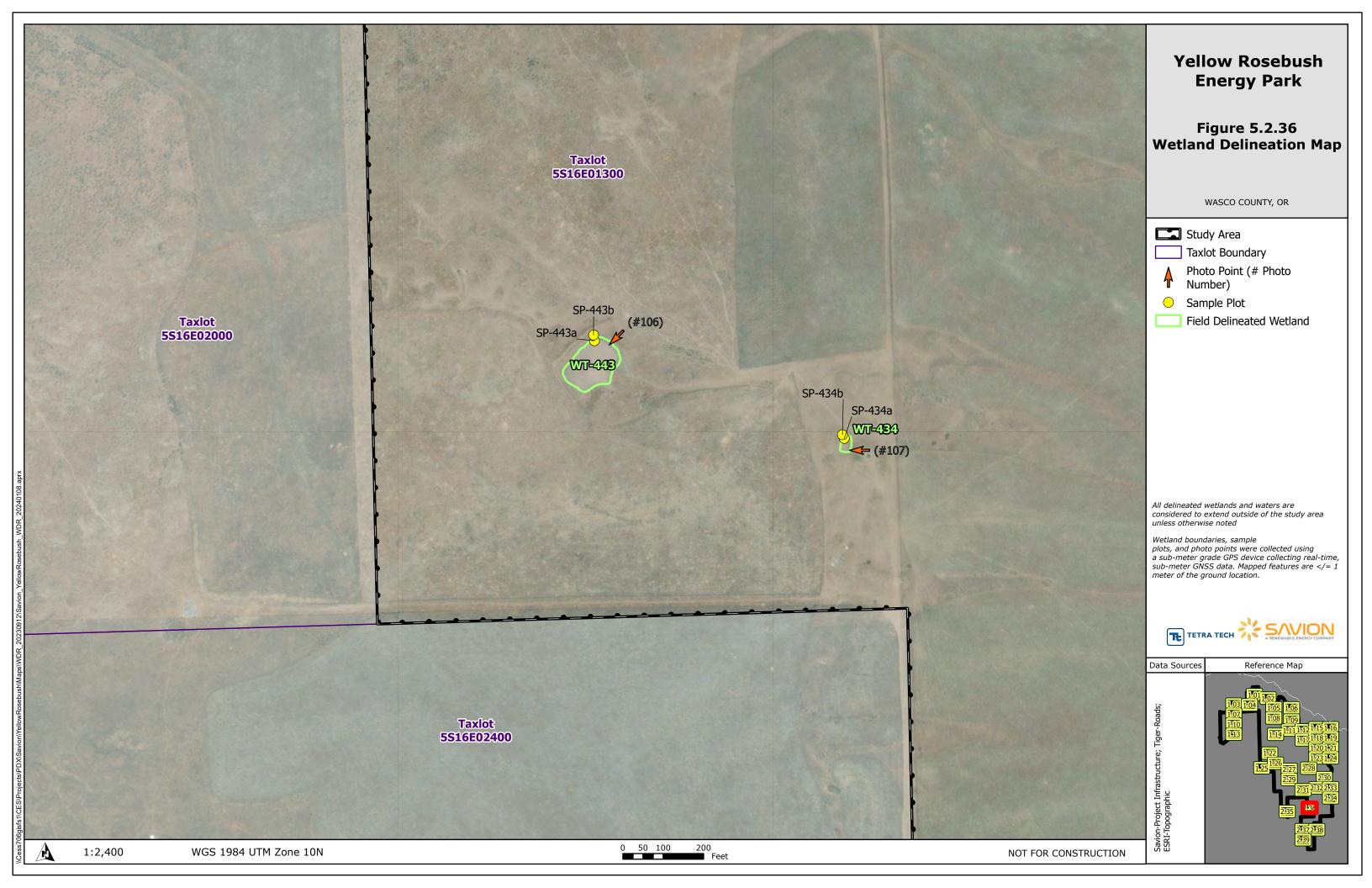


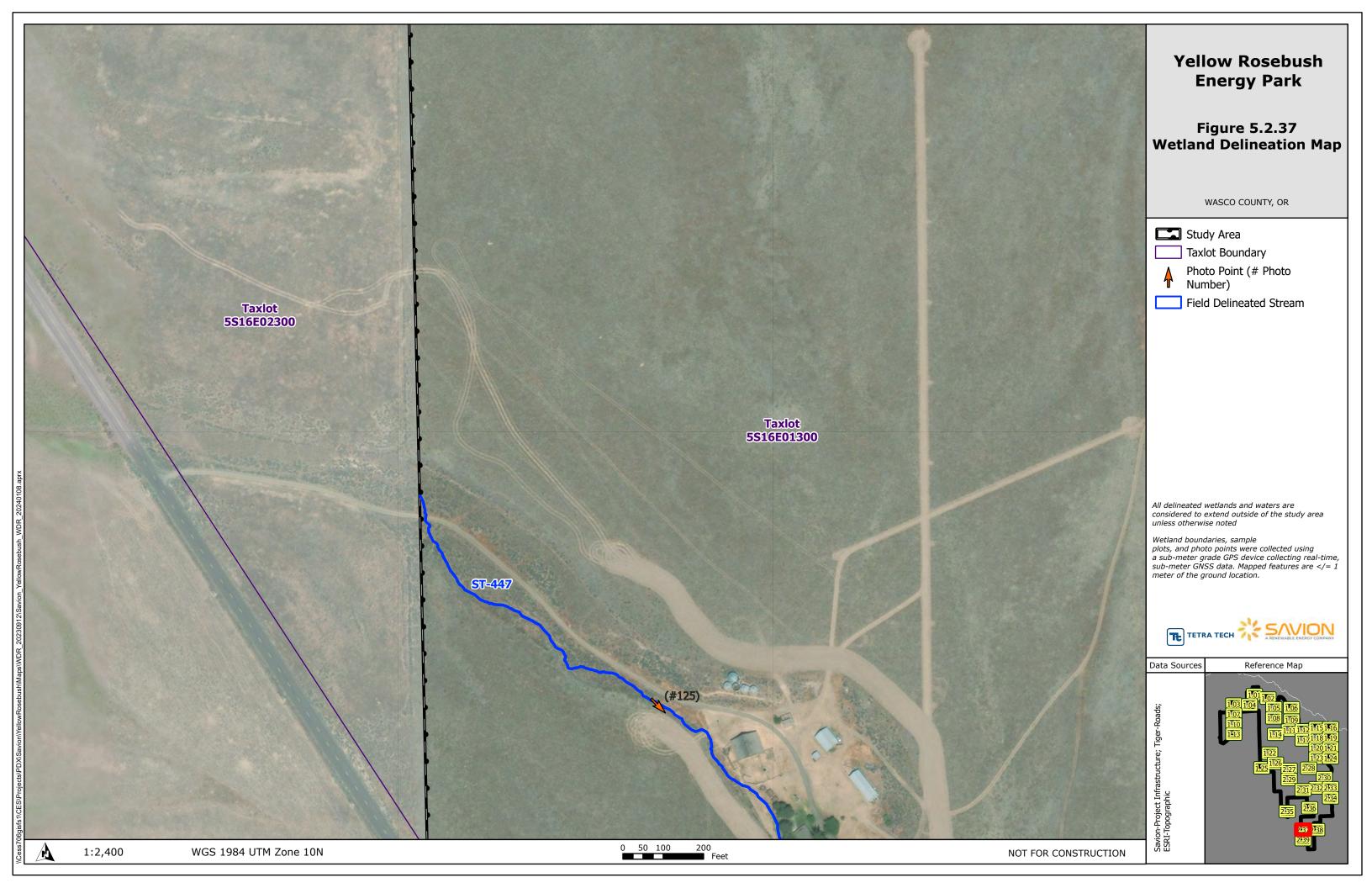




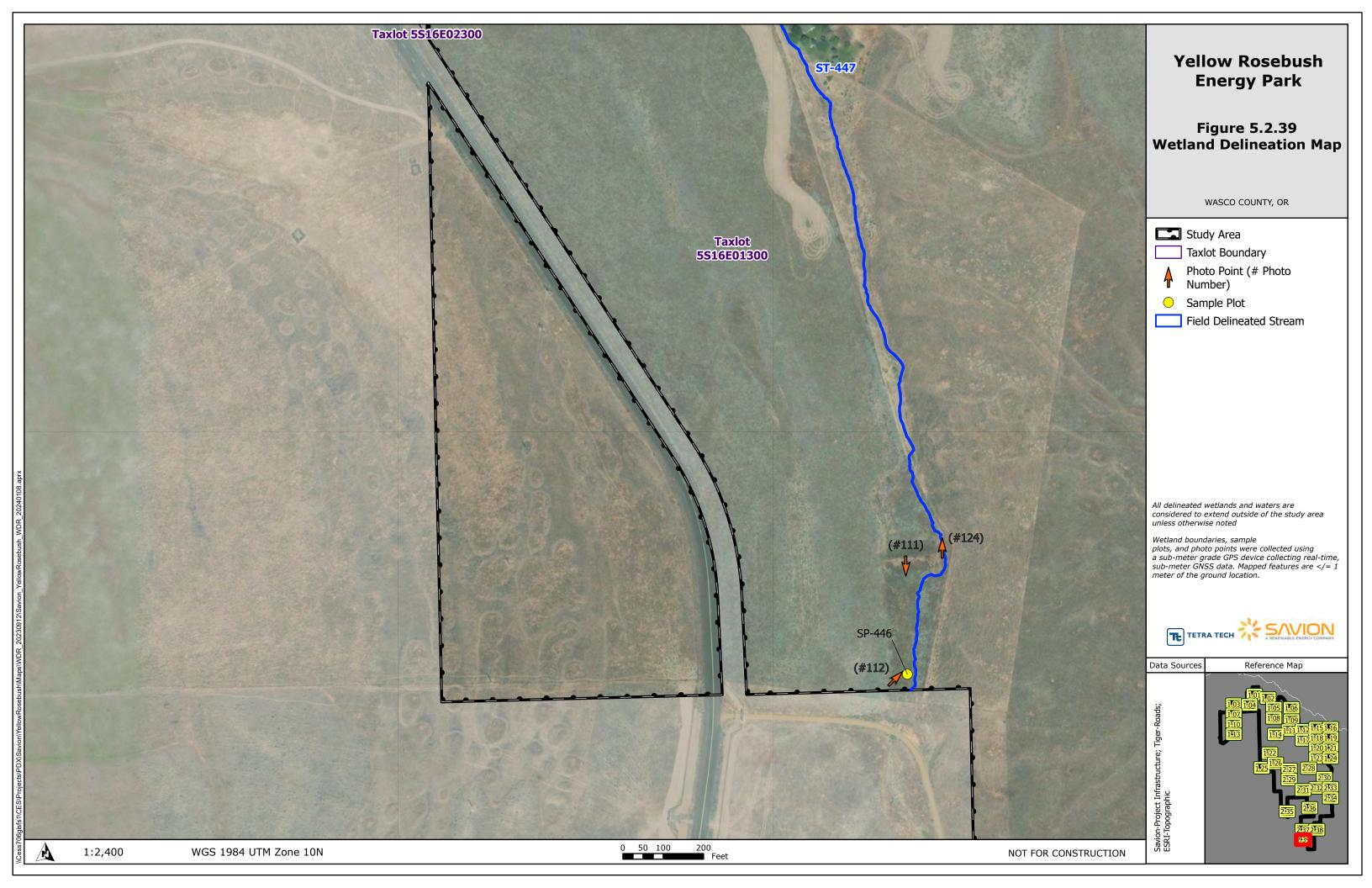






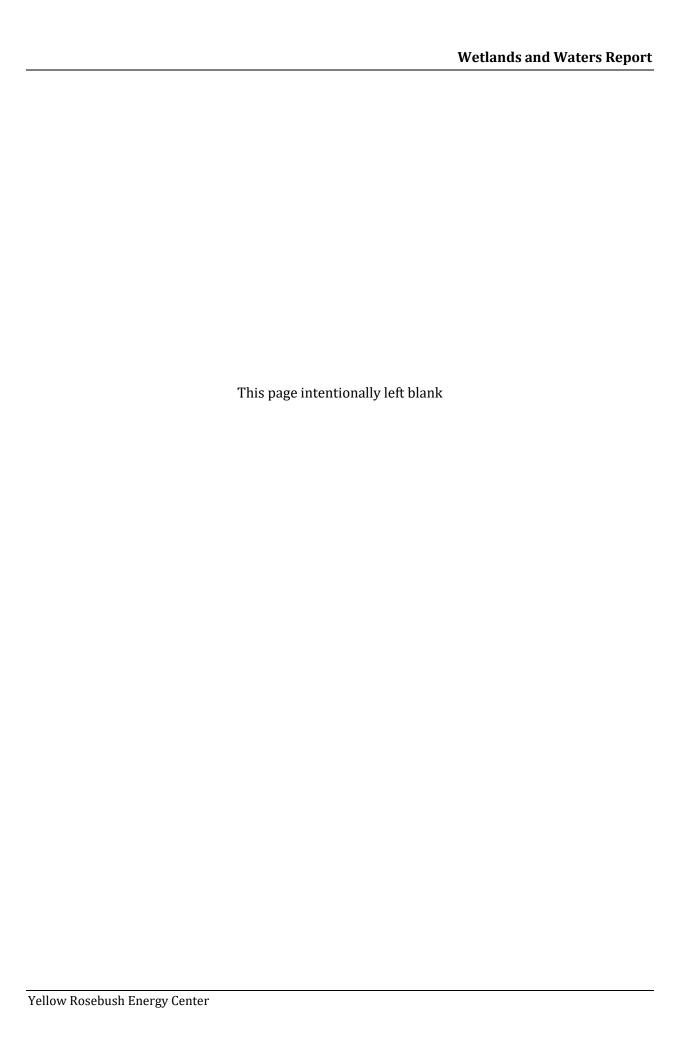






| Wetlands and Waters Report |
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Appendix A. USACE Datasheets



See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | unty: Wasco | | Sampling Date: | 6/27/2023 |
|--|-----------------|----------------------|-----------------|---|-----------------------------------|----------------|
| Applicant/Owner: Savion | | | - | State: OR | Sampling Point: | SP-101 |
| Investigator(s): Joe Parzych, Lynda Oosterhuis | | Section, | Township, Ra | inge: T04S, R15E | | |
| Landform (hillside, terrace, etc.): Swale | | Local relief (c | oncave, conv | ex, none): concave | Slop | e (%): 2 |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.157797°</u> | | | Long: | 120.843690° | Datum: | WGS 84 |
| Soil Map Unit Name: Bakeoven-Condon complex, 0-20 | % slopes | | | NWI classifi | cation: none | |
| Are climatic / hydrologic conditions on the site typical for | r this time of | f year? | Yes X | No (If no, exp | lain in Remarks.) | |
| Are Vegetation, Soil, or Hydrology_X_s | ignificantly of | disturbed? | Are "Normal C | Circumstances" present? | Yes X No |) |
| Are Vegetation, Soil, or Hydrologyn | aturally prol | blematic? (| (If needed, ex | plain any answers in Ren | narks.) | |
| SUMMARY OF FINDINGS – Attach site ma | p showin | ng samplin | g point lo | cations, transects, | important featu | ıres, etc. |
| Hydrophytic Vegetation Present? Yes No | Х | Is the | e Sampled A | rea | | |
| | X | withi | in a Wetland | ? Yes | No_X | |
| Wetland Hydrology Present? Yes X No | | | | | | |
| Remarks: Plot taken in concave swale, in lowest portion of feature flooded uplands. | e in standin | g water. Wate | er feeding into | this feature is from a hos | se, these were deter | rmined to be |
| VEGETATION – Use scientific names of pl | ants. | | | | | |
| Tree Stratum (Plot size: 30' radius) | Absolute | Dominant Species? | Indicator | Dominance Test wor | kahaati | |
| <u>Tree Stratum</u> (Plot size: <u>30' radius</u>) 1. None | % Cover | Species? | Status | Number of Dominant S | | |
| 2. | | | | Are OBL, FACW, or FA | • | 0 (A) |
| 3. | | | | Total Number of Domi | nant Species | |
| 4 | | | | Across All Strata: | | 2 (B) |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | =Total Cover | | Percent of Dominant S Are OBL, FACW, or FA | • | .0% (A/B) |
| 1. None | | | | AIC OBE, I AOW, OI I | <u> </u> | (A/B) |
| 2. | | | | Prevalence Index wo | rksheet: | |
| 3. | | | | Total % Cover of: | . Multi | ply by: |
| 4 | | | | OBL species 0 | | 0 |
| 5 | | =Total Cover | | FACW species 5 FAC species 0 | | <u>10</u> 0 |
| Herb Stratum (Plot size: 5' radius) | | =10tal Covel | | FACU species 40 | | 160 |
| 1. Taeniatherum caput-medusae | 50 | Yes | UPL | UPL species 70 | 0 x 5 = 3 | 350 |
| 2. Cirsium arvense | 25 | Yes | FACU | Column Totals: 11 | 5 (A) 5 | 520 (B) |
| 3. Epilobium ciliatum | 5 | No | FACW | Prevalence Index : | = B/A = <u>4.52</u> | |
| Thinopyrum intermedium Achillea millefolium | 20 | No No | UPL | Hydrophytic Vocatet | ion Indicators | |
| | 15 | No | FACU | Hydrophytic Vegetati Dominance Test is | | |
| 7. | | | | Prevalence Index | | |
| 8. | | | | Morphological Ada | aptations ¹ (Provide s | supporting |
| | 115 | =Total Cover | | | s or on a separate s | • |
| Woody Vine Stratum (Plot size: 30' radius) | | | | Problematic Hydro | ophytic Vegetation ¹ | (Explain) |
| 1 | | | | ¹ Indicators of hydric so | | |
| | | =Total Cover | | be present, unless dist | urbed or problemat | 10. |
| | | 20.01 | | Hydrophytic Vegetation | | |
| % Bare Ground in Herb Stratum 0 % C | over of Biot | ic Crust 0 | | Present? Yes | NoX | _ |
| Remarks: | | | | | | |
| Vegatation is a mix of upland and FACU and FACW du | ie to altered | l hydrology. | | | | |

| Profile Desci Depth | ription: (Describe Matrix | to the dept | | ıment th x Featur | | ator or c | onfirm the absence o | of indicators.) | |
|------------------------|------------------------------|---------------|------------------------|-----------------------------|-------------------|------------------|-------------------------------|------------------------------|----------------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-8 | 7.5YR 3/2 | 100 | | | 71 - | | Loamy/Clayey | no hydric soil indica | ators |
| | | | | | | | | | |
| | | · — - | | | | | | | |
| | - | · —— - | | | | | | | |
| | | . — - | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹Type: C=Co | ncentration, D=Dep | letion, RM= | Reduced Matrix, C | S=Cove | red or C | oated S | and Grains. ² Loca | tion: PL=Pore Lining, M=N | latrix. |
| Hydric Soil I | ndicators: (Applica | able to all L | RRs, unless othe | rwise n | oted.) | | Indicator | s for Problematic Hydric | Soils ³ : |
| Histosol (| A1) | | Sandy Red | dox (S5) | | | 1 cm | Muck (A9) (LRR C) | |
| Histic Epi | pedon (A2) | | Stripped M | atrix (S6 | 6) | | 2 cm | Muck (A10) (LRR B) | |
| Black His | tic (A3) | | Loamy Mu | cky Mine | eral (F1) | | Iron-N | Manganese Masses (F12) (I | LRR D) |
| Hydroger | Sulfide (A4) | | Loamy Gle | yed Mat | rix (F2) | | Redu | ced Vertic (F18) | |
| Stratified | Layers (A5) (LRR (| C) | Depleted N | /latrix (F | 3) | | Red F | Parent Material (F21) | |
| | ck (A9) (LRR D) | | Redox Dar | | | | | Shallow Dark Surface (F22) |) |
| | Below Dark Surface | e (A11) | Depleted D | | |) | Other | (Explain in Remarks) | |
| | rk Surface (A12) | | Redox Dep | pression | s (F8) | | | | |
| | ucky Mineral (S1) | 3 | | | | | | | |
| | eyed Matrix (S4) | | rs of hydrophytic ve | egetatio | n and we | tland hy | drology must be prese | nt, unless disturbed or prob | lematic. |
| | ayer (if observed): | | | | | | | | |
| Type: | hard grou | | _ | | | | | | |
| Depth (in | cnes): | 8 | _ | | | | Hydric Soil Present | ? Yes | No X |
| Remarks: | | | | | | | | | |
| Area was acti | vely receiving irriga | tion and app | pears to be routine | ly flood | irrigated. | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| Wetland Hyd | rology Indicators: | | | | | | | | |
| Primary Indica | ators (minimum of c | ne is requir | ed; check all that a | pply) | | | Secondar | y Indicators (minimum of tw | o required) |
| X Surface V | Vater (A1) | | Salt Crust | (B11) | | | Water | r Marks (B1) (Riverine) | |
| X High Wat | er Table (A2) | | Biotic Crus | t (B12) | | | Sedin | nent Deposits (B2) (Riverin | ie) |
| X Saturation | n (A3) | | Aquatic Inv | ertebrat/ | es (B13) | | Drift [| Deposits (B3) (Riverine) | |
| Water Ma | arks (B1) (Nonriver | ine) | Hydrogen S | | | | | age Patterns (B10) | |
| | Deposits (B2) (No | • | Oxidized R | • | | - | · · · — · | eason Water Table (C2) | |
| | osits (B3) (Nonrive | rine) | Presence of | | | ` ' | | ish Burrows (C8) | |
| | Soil Cracks (B6) | | Recent Iro | | | lled Soil | | ation Visible on Aerial Imag | ery (C9) |
| | n Visible on Aerial I | magery (B7 | · — | | | | | ow Aquitard (D3) | |
| Water-Sta | ained Leaves (B9) | | Other (Exp | lain in R | emarks) | | FAC-I | Neutral Test (D5) | |
| Field Observ | | ., | | 5 (1 | | | | | |
| Surface Wate | | | | Depth (ii | · - | 1 | | | |
| Water Table I | | | | Depth (ii | ′ = | 1 | \Mastle | D | N. |
| Saturation Pro | | es X | No | Depth (ii | ncnes): | 0 | wetiand Hydrolog | y Present? Yes X | No |
| (includes cap | | | nitoring wall aggic | Inhotos | province | o incos | tions) if available: | | |
| Pescupe Kec | orded Data (stream | gauge, mo | ilitoring well, aerlal | ι μποιος, | previous | ь шѕрес | aioris), ii avallable: | | |
| Remarks: | | | | | | | | | |
| Irrigation pipe | with flowing water | present. Ar | ea appears to be r | egularly | flood irri | gated. | | | |
| | | | | | | | | | |
| | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | nty: Wasco | | Sampling Date: | 6/27/2023 |
|--|---------------------|-------------------|---------------------|---|---|-------------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | SP-105 |
| Investigator(s): Joe Parzych, Lynda Oosterhuis | | Section, T | ownship, Ra | inge: T4S, R15E | | |
| Landform (hillside, terrace, etc.): terrace | L | ocal relief (co | ncave, conv | ex, none): concave | Sk | ope (%): <u>0</u> |
| Subregion (LRR): LRR B Lat: _45.157797° | ı | | Long: | 120.843690° | Datum | : WGS 84 |
| Soil Map Unit Name: Bakeoven-Condon complex, 0-2 | 0% slopes | | | NWI classif | ication: riverine | |
| Are climatic / hydrologic conditions on the site typical for | or this time of | year? | Yes X | No (If no, exp | olain in Remarks.) | |
| Are Vegetation, Soil, or Hydrology | significantly d | | | Circumstances" present? | | lo |
| Are Vegetation, Soil, or Hydrology | | | | plain any answers in Re | | |
| SUMMARY OF FINDINGS – Attach site m | | | g point lo | cations, transects, | important feat | ures, etc. |
| Hydrophytic Vegetation Present? Yes N | lo X | Is the | Sampled A | rea | | |
| Hydric Soil Present? Yes N | lo X | withi | n a Wetland | ? Yes | No_X | |
| Wetland Hydrology Present? Yes N | lo <u>X</u> | | | | | |
| Remarks: Upland depression suspected of being a possible wel | tland that was | confirmed as | upland. | | | |
| | | | ' | | | |
| VEGETATION – Use scientific names of p | | | | | | |
| <u>Tree Stratum</u> (Plot size: 30' radius) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test wo | ksheet: | |
| 1. | 70 0010. | ороско: | <u> </u> | Number of Dominant | | |
| 2. | | | | Are OBL, FACW, or F | • | 0 (A) |
| 3 | | | | Total Number of Dom Across All Strata: | inant Species | 2 (B) |
| | | Total Cover | | Percent of Dominant | • | |
| Sapling/Shrub Stratum (Plot size: 15' radius |) | | | Are OBL, FACW, or F | AC: 0 | 0.0% (A/B) |
| 1 | | | | Duning law on Index | | |
| 2. 3. | | | | Prevalence Index wo Total % Cover of | | tiply by: |
| 4. | | | | | x 1 = | 0 |
| 5. | | | | |) x 2 = | 0 |
| | = | Total Cover | | FAC species 8 | 3 x 3 = | 24 |
| Herb Stratum (Plot size: 5' radius) | _ | | | ' | | 220 |
| Ericameria nauseosa Poa secunda | <u>5</u> 25 | No Yee | UPL | · | | 75 240 (B) |
| Taeniatherum caput-medusae | 5 | Yes No | FACU UPL | Column Totals: 7 Prevalence Index | | 319 (B) |
| 4. Poa bulbosa | 30 | Yes | FACU | Trovalence mack | - B// (- 4.00 | <u></u> |
| 5. Bromus tectorum | 5 | No | UPL | Hydrophytic Vegetat | ion Indicators: | |
| 6. Hordeum jubatum | 8 | No | FAC | Dominance Test i | s >50% | |
| 7 | | | | Prevalence Index | | |
| 8 | 70 | T-1-1 0 | | | aptations ¹ (Provide as or on a separate | |
| Woody Vine Stratum (Plot size: 30' radius | | Total Cover | | | ophytic Vegetation ¹ | |
| 1 | | | | ¹ Indicators of hydric s | | |
| 2. | | | | be present, unless dis | • | 0, |
| | | Total Cover | | Hydrophytic | · | |
| | | | | Vegetation | | |
| % Bare Ground in Herb Stratum 22 % | Cover of Biotic | Crust 0 | <u> </u> | Present? Yes | No X | |
| Remarks: | | | | | | |
| | | | | | | |

| Profile Desc Depth | Matrix | | Redo | x Featur | es | | | | | |
|--|---|---|--|--|---|------------------------------------|-------------------------------------|---|--|------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks | |
| 0-2 | 7.5YR 4/1 | 100 | , , , | | | | Loamy/Claye | y — | rocks at 2" | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | - | | | |
| | oncentration, D=Deplet | | | | | oated S | | | re Lining, M=Matrix. | |
| _ | ndicators: (Applicable | le to all LF | | | oted.) | | | | matic Hydric Soils ³ : | |
| Histosol | ` ' | | Sandy Red | | | | | 1 cm Muck (A9) (L | • | |
| | ipedon (A2) | | Stripped M | | | | | 2 cm Muck (A10) (| · · · · · · · · · · · · · · · · · · · | |
| Black His | ` , | | Loamy Mu | | | | | = | Masses (F12) (LRR D) | |
| | n Sulfide (A4) | | Loamy Gle | | | | | Reduced Vertic (F | | |
| | Layers (A5) (LRR C) | | Depleted N | , | , | | | Red Parent Materi | ` ' | |
| | ck (A9) (LRR D) | A 4 4 \ | Redox Dar | | | | | Very Shallow Dark | | |
| | Below Dark Surface (| A11) | Depleted D | | , , |) | | Other (Explain in F | Remarks) | |
| | rk Surface (A12) | | Redox Dep | pression | s (F8) | | | | | |
| | ucky Mineral (S1) | 3Indiantors | of budrophytic w | ogototio | n and w | stland by | idrology must be | propont unloss dis | sturbad ar problematic | |
| | | mulcators | s of flydropflytic v | egetatio | ii aiiu we | and m | diology must be | present, unless dis | sturbed or problematic. | |
| | _ayer (if observed): | | | | | | | | | |
| Type: _ Depth (ir | rocks | 2 | _ | | | | Hydric Soil Pre | seont? | Yes No | v |
| Remarks: | | | _ | | | | Tryunc 3011 Tr | | 16310 | ^_ |
| ' | | | | | | | | | | |
| , | Is present. Refusal at 2 | 2" due to ro | ocks. | | | | | | | |
| HYDROLO | GY | 2" due to ro | ocks. | | | | | | | |
| HYDROLO Wetland Hyd | GY drology Indicators: | | | annly) | | | Sacr | ondary Indicators (| minimum of two require | ed) |
| HYDROLO Wetland Hyo Primary Indic | GY drology Indicators: eators (minimum of one | | d; check all that a | | | | | | minimum of two require | ed) |
| HYDROLO Wetland Hyd Primary Indic Surface V | GY drology Indicators: eators (minimum of one Water (A1) | | d; check all that a | (B11) | | | | Water Marks (B1) | (Riverine) | ed) |
| HYDROLO Wetland Hyd Primary Indic Surface V High Wa | GY drology Indicators: eators (minimum of one Water (A1) ter Table (A2) | | d; check all that a Salt Crust Biotic Crus | (B11) st (B12) | es (B13) | | _ | Water Marks (B1) Sediment Deposits | (Riverine) s (B2) (Riverine) | <u>ed)</u> |
| HYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatio | GY drology Indicators: eators (minimum of one Water (A1) ter Table (A2) on (A3) | e is require | d; check all that a Salt Crust Biotic Crus Aquatic Inv | (B11) st (B12) vertebrat | | | | Water Marks (B1) Sediment Deposits Drift Deposits (B3) | (Riverine) s (B2) (Riverine) (Riverine) | <u>ed)</u> |
| HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water Ma | GY drology Indicators: eators (minimum of one Water (A1) ter Table (A2) | e is require | d; check all that a Salt Crust Biotic Crus | (B11) it (B12) vertebrat Sulfide (| Odor (C1 |) | | Water Marks (B1) Sediment Deposits | (Riverine) (B2) (Riverine) (Riverine) (B10) | ed) |
| HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water Management | GY drology Indicators: eators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine | e is required | d; check all that aSalt CrustBiotic CrusAquatic Inv | (B11) it (B12) vertebrat Sulfide (thizosph | Odor (C1 eres on |) Living R | oots (C3) | Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns | (Riverine) s (B2) (Riverine) (Riverine) (B10) Table (C2) | ed) |
| HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water Mater Mate | GY drology Indicators: eators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonri | e is required | d; check all that aSalt CrustBiotic CrusAquatic InvHydrogen i | (B11) st (B12) vertebrat Sulfide (thizosph of Reduc | Odor (C1 eres on ced Iron |) Living R (C4) | oots (C3) | Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Water Crayfish Burrows (| (Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) | |
| HYDROLO Wetland Hyd Primary Indic Surface ' High Wa Saturatic Water Mater Mate | GY drology Indicators: eators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonri osits (B3) (Nonriverin | e is required e) (verine) | d; check all that a Salt Crust Biotic Crus Aquatic Int Hydrogen S Oxidized R | (B11) st (B12) vertebrat Sulfide (thizosph of Reduc | Odor (C1 eres on ced Iron tion in Ti |) Living R (C4) | oots (C3) | Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Water Crayfish Burrows (| (Riverine) (Riverine) (Riverine) (B10) (Table (C2) (C8) on Aerial Imagery (C9) | |
| HYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M: Sedimen Drift Dep Surface Inundation | GY drology Indicators: eators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonri osits (B3) (Nonriverin Soil Cracks (B6) | e is required e) (verine) | d; check all that a Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence G Recent Iro | (B11) st (B12) vertebrate Sulfide (Shizosph of Reduct n Reduct Surface | Odor (C1 eres on ced Iron tion in Ti (C7) |) Living R (C4) illed Soi | oots (C3) | Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Water Crayfish Burrows (Saturation Visible | (Riverine) (Riverine) (Riverine) (B10) (Table (C2) (C8) on Aerial Imagery (C9) D3) | |
| HYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M: Sedimen Drift Dep Surface Inundation | GY drology Indicators: eators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonri osits (B3) (Nonriverin Soil Cracks (B6) on Visible on Aerial Ima ained Leaves (B9) | e is required e) (verine) | d; check all that a Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck | (B11) st (B12) vertebrate Sulfide (Shizosph of Reduct n Reduct Surface | Odor (C1 eres on ced Iron tion in Ti (C7) |) Living R (C4) illed Soi | oots (C3) | Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Water Crayfish Burrows (Saturation Visible Shallow Aquitard (| (Riverine) (Riverine) (Riverine) (B10) (Table (C2) (C8) on Aerial Imagery (C9) D3) | |
| HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Surface Surface V Inundatio Water-St | GY drology Indicators: eators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonriverin osits (B3) (Nonriverin Soil Cracks (B6) on Visible on Aerial Ima ained Leaves (B9) vations: | e is required e) everine) e) | d; check all that a Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp | (B11) st (B12) vertebrate Sulfide (Shizosph of Reduct n Reduct Surface | Odor (C1 eres on ced Iron of tion in Ti (C7) emarks) |) Living R (C4) illed Soi | oots (C3) | Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Water Crayfish Burrows (Saturation Visible Shallow Aquitard (| (Riverine) (Riverine) (Riverine) (B10) (Table (C2) (C8) on Aerial Imagery (C9) D3) | |
| HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatic Water Management Drift Dep Surface Surface Surface Water Striace Water Water Water Striace Water Table | GY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonri cosits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima cained Leaves (B9) vations: er Present? Yes Present? Yes | e is required e) e) e) agery (B7) | d; check all that a Salt Crust Biotic Crus Aquatic Inv Hydrogen 3 Oxidized R Presence 0 Recent Iron Thin Muck Other (Exp | (B11) It (B12) Vertebrat Sulfide (Ithizosph of Reduct n Reduct Surface Depth (ithizosph) Depth (ithizosph) | Odor (C1 eres on ced Iron of tion in Ti (C7) emarks) nches): _nches): _ |) Living R (C4) illed Soi | oots (C3) | Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Water Crayfish Burrows (Saturation Visible Shallow Aquitard (FAC-Neutral Test | (Riverine) (Riverine) (Riverine) (Riverine) (B10) (Table (C2) (C8) on Aerial Imagery (C9) D3) (D5) | |
| HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water Management Drift Dep Surface Surface Surface Surface Water-Str | GY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonri cosits (B3) (Nonriverin Soil Cracks (B6) on Visible on Aerial Ima cained Leaves (B9) vations: er Present? Yes Present? Yes | e is required e) e) e) agery (B7) | d; check all that a Salt Crust Biotic Crus Aquatic Inv Hydrogen 3 Oxidized R Presence 0 Recent Iron Thin Muck Other (Exp | (B11) It (B12) Vertebrat Sulfide (Ithizosph of Reduc on Reduc Surface Italian in R | Odor (C1 eres on ced Iron of tion in Ti (C7) emarks) nches): _nches): _ |) Living R (C4) illed Soi | oots (C3) | Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Water Crayfish Burrows (Saturation Visible Shallow Aquitard (| (Riverine) (Riverine) (Riverine) (Riverine) (B10) (Table (C2) (C8) on Aerial Imagery (C9) D3) (D5) | |
| HYDROLO Wetland Hyde Primary Indice Surface Water Manager Sediment Drift Dept Surface Water-St Field Observ Surface Water Table Saturation Profincludes cap | GY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonriverine soil Cracks (B6) on Visible on Aerial Ima ained Leaves (B9) vations: er Present? Yes Present? Yes esent? Yes esent? Yes soillary fringe) | e is required verine) e) agery (B7) | d; check all that a Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp | (B11) It (B12) Vertebrat Sulfide (Ithizosph Of Reduce In Reduce Surface Surface Jepth (i Depth (ii | Odor (C1 eres on ced Iron of tion in Ti (C7) emarks) nches): nches): |) Living R (C4) Illed Soi | oots (C3) ls (C6) Wetland Hyd | Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Water Crayfish Burrows (Saturation Visible Shallow Aquitard (FAC-Neutral Test | (Riverine) (Riverine) (Riverine) (Riverine) (B10) (Table (C2) (C8) on Aerial Imagery (C9) D3) (D5) | |
| HYDROLO Wetland Hyde Primary Indice Surface Water Manager M | GY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonri cosits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima cained Leaves (B9) vations: er Present? Yes Present? Yes ersent? Yes | e is required verine) e) agery (B7) | d; check all that a Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp | (B11) It (B12) Vertebrat Sulfide (Ithizosph Of Reduce In Reduce Surface Surface Jepth (i Depth (ii | Odor (C1 eres on ced Iron of tion in Ti (C7) emarks) nches): nches): |) Living R (C4) Illed Soi | oots (C3) ls (C6) Wetland Hyd | Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Water Crayfish Burrows (Saturation Visible Shallow Aquitard (FAC-Neutral Test | (Riverine) (Riverine) (Riverine) (Riverine) (B10) (Table (C2) (C8) on Aerial Imagery (C9) D3) (D5) | |
| HYDROLO Wetland Hyde Primary Indice Surface Water Manager Sediment Drift Dept Surface Water-St Field Observ Surface Water Table Saturation Profincludes cap | GY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonriverine soil Cracks (B6) on Visible on Aerial Ima ained Leaves (B9) vations: er Present? Yes Present? Yes esent? Yes esent? Yes soillary fringe) | e is required verine) e) agery (B7) | d; check all that a Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp | (B11) It (B12) Vertebrat Sulfide (Ithizosph Of Reduce In Reduce Surface Surface Jepth (i Depth (ii | Odor (C1 eres on ced Iron of tion in Ti (C7) emarks) nches): nches): |) Living R (C4) Illed Soi | oots (C3) ls (C6) Wetland Hyd | Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Water Crayfish Burrows (Saturation Visible Shallow Aquitard (FAC-Neutral Test | (Riverine) (Riverine) (Riverine) (Riverine) (B10) (Table (C2) (C8) on Aerial Imagery (C9) D3) (D5) | |
| HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Surface S Inundatio Water-St Field Observ Surface Water Vater Table Saturation Pr (includes cap Describe Rec | GY drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonriverine soil Cracks (B6) on Visible on Aerial Ima ained Leaves (B9) vations: er Present? Yes Present? Yes esent? Yes esent? Yes soillary fringe) | e is required verine) e) agery (B7) | d; check all that a Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp | (B11) It (B12) Vertebrat Sulfide (Ithizosph Of Reduce n Reduce Surface Sulain in R Depth (i Depth (ii | Odor (C1 eres on ced Iron of tion in Ti (C7) emarks) nches): nches): |) Living R (C4) Illed Soi | oots (C3) ls (C6) Wetland Hyd | Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Water Crayfish Burrows (Saturation Visible Shallow Aquitard (FAC-Neutral Test | (Riverine) (Riverine) (Riverine) (Riverine) (B10) (Table (C2) (C8) on Aerial Imagery (C9) D3) (D5) | |
| HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Surface S Inundatio Water-St Field Observ Surface Water Vater Table Saturation Pr (includes cap Describe Rec | drology Indicators: cators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonriverine osits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima cained Leaves (B9) vations: er Present? Yes Present? Yes resent? Yes | e is required verine) e) agery (B7) | d; check all that a Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp | (B11) It (B12) Vertebrat Sulfide (Ithizosph Of Reduce n Reduce Surface Sulain in R Depth (i Depth (ii | Odor (C1 eres on ced Iron of tion in Ti (C7) emarks) nches): nches): |) Living R (C4) Illed Soi | oots (C3) ls (C6) Wetland Hyd | Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Water Crayfish Burrows (Saturation Visible Shallow Aquitard (FAC-Neutral Test | (Riverine) (Riverine) (Riverine) (Riverine) (B10) (Table (C2) (C8) on Aerial Imagery (C9) D3) (D5) | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | nty: Wasco | | Sampling Date: | 6/27/2023 |
|--|----------------|---------------------|----------------------------|---|----------------------------------|------------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | SP-107 |
| Investigator(s): Joe Parzych, Lynda Oosterhuis | | Section, 7 | Γownship, Ra | inge: T04S, R15E | | |
| Landform (hillside, terrace, etc.): swale | ļ | _ocal relief (co | oncave, conv | ex, none): concave | Slo | pe (%): <u>1</u> |
| Subregion (LRR): LRR B Lat: 45.157797 | 70 | | Long: - | 120.843690° | Datum: | WGS 84 |
| Soil Map Unit Name: Bakeoven-Condon complex, 0-2 | 20% slopes | | | | fication: PUSAh | |
| Are climatic / hydrologic conditions on the site typical | | year? | Yes X | | | |
| Are Vegetation, Soil, or Hydrology | | | | Circumstances" present? | |) |
| Are Vegetation, Soil, or Hydrology | _ | | | plain any answers in Re | | |
| SUMMARY OF FINDINGS – Attach site n | | | | | • | ures, etc. |
| | No X No X | | e Sampled A n a Wetland | | No_X_ | |
| Wetland Hydrology Present? Yes | No <u>X</u> | | | | | |
| Remarks: Confirming upland conditons at NWI mapped pond le VEGETATION – Use scientific names of | | s found to be | not present. | | | |
| VEGETATION – Use scientific flames of | Absolute | Dominant | Indicator | | | |
| <u>Tree Stratum</u> (Plot size: <u>30' radius</u>) | % Cover | Species? | Status | Dominance Test wo | rksheet: | |
| 1. 2. | | | | Number of Dominant Are OBL, FACW, or F | • | 0 (A) |
| 3. 4. | | | | Total Number of Dom Across All Strata: | inant Species | 2 (B) |
| Sapling/Shrub Stratum (Plot size: 15' radius 1. Aretmesia tridentata | | =Total Cover Yes | UPL | Percent of Dominant Are OBL, FACW, or F | • | .0% (A/B) |
| 2 | | | | Prevalence Index wo | | |
| 3 | | | | Total % Cover o | | ply by: |
| 4 | | | | | 0 x 1 = 0 x 2 = | 0 |
| · | 20 : | =Total Cover | | · | 0 x3= | 0 |
| Herb Stratum (Plot size: 5' radius) | | | | · | | 40 |
| 1. Taeniatherum caput-medusae | 55 | Yes | UPL | · · | | 150 |
| 2. Achillea millefolium | 10 | No | FACU | | | 190 (B) |
| Bromus tectorum Tragopogon porrifolius | | No No | UPL | Prevalence Index | = B/A = 4.90 |) |
| | | <u>No</u> | UPL | Hydrophytic Vegeta | tion Indicators: | |
| 6. | | | | Dominance Test | | |
| 7. | | | | Prevalence Index | | |
| 8. | | | | Morphological Ad | laptations ¹ (Provide | supporting |
| | | =Total Cover | | | ks or on a separate s | |
| Woody Vine Stratum (Plot size: 30' radius | _ | | | | ophytic Vegetation ¹ | |
| 1. 2. | | | | ¹ Indicators of hydric s be present, unless dis | | |
| | | =Total Cover | | Hydrophytic Vegetation | , | |
| | Cover of Bioti | c Crust 0 | | Present? Yes | No X | _ |
| Remarks: Upland vegetation dominated by Taeniatherum capu | ıt-medusea. | | | | | |

| Profile Descr Depth | iption: (Describe t Matrix | o the depth | | u ment th x Featur | | itor or o | confirm the absence o | f indicators.) |
|--------------------------|--|---------------|---------------------|------------------------------|-------------------|------------------|-------------------------------|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-10 | 10YR 3/1 | 100 | , , | | | | Loamy/Clayey | Silt loam |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Cor | ncentration, D=Depl | etion, RM=R | Reduced Matrix, C | CS=Cove | ered or C | oated S | and Grains. ² Loca | tion: PL=Pore Lining, M=Matrix. |
| Hydric Soil In | dicators: (Applica | ble to all LF | RRs, unless other | erwise n | oted.) | | Indicator | s for Problematic Hydric Soils ³ : |
| Histosol (/ | A1) | | Sandy Red | dox (S5) | | | 1 cm | Muck (A9) (LRR C) |
| Histic Epip | pedon (A2) | | Stripped M | 1atrix (Se | 5) | | 2 cm | Muck (A10) (LRR B) |
| Black Hist | ` ' | | Loamy Mu | icky Mine | eral (F1) | | Iron-N | Manganese Masses (F12) (LRR D) |
| | Sulfide (A4) | | Loamy Gle | eyed Mat | trix (F2) | | Redu | ced Vertic (F18) |
| | Layers (A5) (LRR C |) | Depleted I | , | , | | | Parent Material (F21) |
| | k (A9) (LRR D) | | Redox Da | | ` ' | | | Shallow Dark Surface (F22) |
| | Below Dark Surface | (A11) | Depleted [| | . , | | Other | (Explain in Remarks) |
| | k Surface (A12) | | Redox De | pression | s (F8) | | | |
| | icky Mineral (S1) | 3 | | | | | | |
| Sandy Gle | eyed Matrix (S4) | Indicators | s of hydrophytic v | egetatio | n and we | tland hy | drology must be prese | nt, unless disturbed or problematic. |
| | ayer (if observed): | | | | | | | |
| Type: | hard grou | | _ | | | | | |
| Depth (inc | nes): | 10 | _ | | | | Hydric Soil Present | ? Yes No X |
| | | | | | | | | |
| HYDROLOG | | | | | | | | |
| - | rology Indicators: ators (minimum of or | ne is require | d: check all that | annly) | | | Secondar | y Indicators (minimum of two required |
| Surface W | • | ie is require | Salt Crust | | | | | r Marks (B1) (Riverine) |
| | er Table (A2) | | Biotic Crus | ` ' | | | | nent Deposits (B2) (Riverine) |
| Saturation | ` ' | | Aquatic In | | tes (B13) | | | Deposits (B3) (Riverine) |
| | rks (B1) (Nonriveri i | ne) | Hydrogen | | | | | age Patterns (B10) |
| | Deposits (B2) (Non | - | Oxidized F | | | | | Season Water Table (C2) |
| | sits (B3) (Nonriver | - | Presence | | | _ | | ish Burrows (C8) |
| | oil Cracks (B6) | • | Recent Iro | n Reduc | tion in Ti | lled Soil | s (C6) Satur | ation Visible on Aerial Imagery (C9) |
| Inundation | n Visible on Aerial Ir | nagery (B7) | Thin Muck | Surface | (C7) | | Shallo | ow Aquitard (D3) |
| Water-Sta | ined Leaves (B9) | | Other (Exp | olain in R | emarks) | | FAC- | Neutral Test (D5) |
| Field Observa | ations: | | | | | | | |
| Surface Water | Present? Yes | s | No X | Depth (i | nches): | | | |
| Water Table F | Present? Yes | s | No X | Depth (i | ′ = | | | |
| Saturation Pre | esent? Ye | s | No X | Depth (i | nches): | | Wetland Hydrolog | gy Present? Yes No_X |
| (includes capil | | | | | | | | |
| Describe Reco | orded Data (stream | gauge, mon | itoring well, aeria | l photos | , previou: | s inspec | tions), if available: | |
| Remarks: | | | | | | | | |
| | drology present. | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | inty: Wasco | | Sampling Date: | 6/27/2023 |
|---|---------------------|-------------------|---------------------|--|----------------------------------|---------------------------|
| Applicant/Owner: Savion | | | - | State: OR | Sampling Point: | SP-109 |
| Investigator(s): Joe Parzych, Lynda Oosterhuis | | Section, 7 | Гownship, Ra | inge: T04S, R15E | | |
| Landform (hillside, terrace, etc.): terrace | | _ocal relief (co | oncave, conv | ex, none): concave | Slo | pe (%): 20 |
| Subregion (LRR): LRR B Lat: 45.157797 | ' 0 | | Long: - | 120.843690° | | WGS 84 |
| Soil Map Unit Name: Lickskillet Extremely stoney loa | | 0% | _ | NWI classifi | cation: ? | |
| Are climatic / hydrologic conditions on the site typical | | | Yes X | No (If no, exp | - | |
| Are Vegetation, Soil, or Hydrology_X | | | | Circumstances" present? | |) |
| Are Vegetation, Soil, or Hydrology | ' | | | plain any answers in Rer | <u></u> | |
| SUMMARY OF FINDINGS – Attach site n | | | | | | ures, etc. |
| Hydrophytic Vegetation Present? Yes | No X | Is the | e Sampled A | rea | | |
| | No X | | n a Wetland | | No X | |
| | No x | | | | | |
| Remarks: Upland confirmation along NHD mapped streamline. | | | | | | |
| VEGETATION – Use scientific names of | - | | | | | |
| Tree Stratum (Plot size: 30' radius) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test wor | ksheet | |
| 1. Juniperus occidentalis | 10 | Yes | UPL | Number of Dominant | | |
| 2. | | | | Are OBL, FACW, or F | • | 0 (A) |
| 3. 4. | | | | Total Number of Domi Across All Strata: | nant Species | 6 (B) |
| | 10 : | =Total Cover | | Percent of Dominant S | Species That | `` |
| Sapling/Shrub Stratum (Plot size: 15' radius |) | | | Are OBL, FACW, or F | • | .0% (A/B) |
| Artemisia tridentata | 5 | Yes | UPL | | | |
| 2. | | | | Prevalence Index wo | | San Landau and San Landau |
| 34. | | | | Total % Cover of | | iply by: |
| 5. | | | | OBL species C |) x 1 =) x 2 = | 0 |
| · | 5 : | =Total Cover | | · · · · · · · · · · · · · · · · · · · | x3= | 0 |
| Herb Stratum (Plot size: 5' radius) | | | | FACU species 4 | | 160 |
| 1. Achillea millefolium | 15 | Yes | FACU | UPL species 5 | 5 x 5 = 2 | 275 |
| 2. Balsamorhiza sagittata | 15 | Yes | UPL | Column Totals: 9 | 5 (A) | 435 (B) |
| 3. Tragopogon porrifolius | 5 | No | UPL | Prevalence Index | = B/A = 4.58 | } |
| 4. Poa secunda | 20 | Yes | FACU | | | |
| 5. Poa bulbosa | _ 5 | No | FACU | Hydrophytic Vegetat | | |
| 6. Pseudoroegneria spicata | 20 | Yes | UPL | Dominance Test is | | |
| 7 | | | | Prevalence Index | is ≤3.0° aptations¹ (Provide⊹ | au na artina |
| 8 | 80 : | =Total Cover | | · — · · | s or on a separate s | |
| Woody Vine Stratum (Plot size: 30' radius | | - rotal Gover | | | ophytic Vegetation ¹ | • |
| 1. | -′ | | | ¹ Indicators of hydric so | | ` ' ' |
| 2. | | | | be present, unless dis | | |
| | | =Total Cover | | Hydrophytic Vegetation | | |
| % Bare Ground in Herb Stratum 10 % | Cover of Bioti | c Crust 0 | | Present? Yes | No X | _ |
| Remarks: | | | | | | |
| Upland species | | | | | | |
| | | | | | | |

| Profile Desc | ription: (Describe to Matrix | to the dept | | ıment tl x Featur | | itor or c | onfirm the absence | of indicators.) | |
|---------------|---|-----------------------|------------------------|-----------------------------|-------------------|------------------|-----------------------|---|----------------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Re | emarks |
| 0-5 | 10YR 3/2 | 100 | (| | | | Loamy/Clayey | | |
| | 101110/2 | | | | | | Loanly clayby | | |
| | | | | | | | | | |
| | | | | | | | | - | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | ncentration, D=Dep | | | | | oated S | | ation: PL=Pore Lir | |
| - | ndicators: (Applica | ible to all L | | | | | | rs for Problemation | - |
| Histosol (| , | | Sandy Red | | | | | Muck (A49) (LRR (| |
| | pedon (A2) | | Stripped M | , | , | | | Muck (A10) (LRR | - |
| Black His | ` ' | | Loamy Mu | • | | | | Manganese Masse | es (F12) (LRR D) |
| | n Sulfide (A4) Layers (A5) (LRR C | •1 | Loamy Gle Depleted N | | | | | ıced Vertic (F18) Parent Material (F | 21\ |
| | ck (A9) (LRR D) | •) | Redox Dar | , | , | | | Shallow Dark Surf | , |
| | Below Dark Surface | e (A11) | Depleted D | | ` ' | | | r (Explain in Rema | |
| | rk Surface (A12) | , , , , , | Redox Dep | | | | | . (=,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | ucky Mineral (S1) | | | | - () | | | | |
| | eyed Matrix (S4) | ³ Indicato | rs of hydrophytic v | egetatio | n and we | tland hy | drology must be prese | ent, unless disturbe | ed or problematic. |
| Restrictive L | ayer (if observed): | | | | | | | | |
| Type: | Rock | | | | | | | | |
| Depth (in | ches): | 5 | | | | | Hydric Soil Presen | t? Ye | s No_X_ |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| _ | Irology Indicators: | | | | | | | | |
| | ators (minimum of o | ne is requir | | | | | | | num of two required) |
| | Vater (A1) er Table (A2) | | Salt Crust Biotic Crus | ` ' | | | | er Marks (B1) (Rive ment Deposits (B2 | |
| Saturatio | | | Aquatic Inv | | tes (R13) | | | Deposits (B3) (Riv | |
| | arks (B1) (Nonriveri | ne) | Hydrogen | | , , | | | nage Patterns (B10 | • |
| | t Deposits (B2) (Nor | - | Oxidized F | | | | | Season Water Tab | • |
| | osits (B3) (Nonriver | - | Presence | | | _ | · · — · | fish Burrows (C8) | , |
| Surface S | Soil Cracks (B6) | | Recent Iro | n Reduc | tion in Ti | lled Soil | s (C6) Satur | ration Visible on A | erial Imagery (C9) |
| Inundatio | n Visible on Aerial Ir | magery (B7 | ') Thin Muck | Surface | (C7) | | Shall | ow Aquitard (D3) | |
| Water-Sta | ained Leaves (B9) | | Other (Exp | lain in R | temarks) | | FAC- | Neutral Test (D5) | |
| Field Observ | | | | | | | | | |
| Surface Water | | s | | Depth (i | nches): | | | | |
| Water Table I | | | | | nches): _ | | | | |
| Saturation Pr | | es | No X | Depth (i | nches): | | Wetland Hydrolog | gy Present? Ye | s Nox_ |
| (includes cap | | | witawiwa walla awia | | | . ! | tions) if available. | | |
| Describe Red | orded Data (stream | gauge, mo | micoring well, aeria | pnotos | , previou | sinspec | uons), ir avallable: | | |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| No wetland n | ydrology present. | | | | | | | | |
| No wetland n | ydrology present. | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/County: Wasco | | Sampling Date: <u>6/27/2023</u> |
|---|--------------------|--------------------------|--|---|
| Applicant/Owner: Savion | | | State: OR | Sampling Point: SP-117 |
| Investigator(s): Joe Parzych, Lynda Oosterhuis | | Section, Township, Ra | ange: <u>T04S, R15E</u> | |
| Landform (hillside, terrace, etc.): Terrace | Loca | Il relief (concave, conv | vex, none): concave | Slope (%):0 |
| Subregion (LRR): LRR B Lat: 45.157797° | | Long: - | 120.843690° | Datum: WGS 84 |
| Soil Map Unit Name: Bakeoven-Condon complex, 0-209 | % slopes | | NWI classific | cation: PUSAh |
| Are climatic / hydrologic conditions on the site typical for | this time of yea | r? Yes X | No (If no, exp | lain in Remarks.) |
| Are Vegetation , Soil , or Hydrology si | ignificantly distu | rbed? Are "Normal (| Circumstances" present? | |
| Are Vegetation, Soil, or Hydrologyn | | | ρlain any answers in Ren | |
| SUMMARY OF FINDINGS – Attach site ma | | | | |
| Hydrophytic Vegetation Present? Yes No | X | Is the Sampled A | rea | |
| | | within a Wetland | | No X |
| Wetland Hydrology Present? Yes X No | | | | |
| Remarks: | | | | |
| Upland confirmation plot at NHD mapped intermittent p upland. Area is believed to lack an adequate hydroperion | | | d hydrology indicators pre | sent, however vegetation is |
| VEGETATION – Use scientific names of pl | ants. | | | |
| · | | ominant Indicator | | |
| Tree Stratum (Plot size: 30' radius) | % Cover Sp | pecies? Status | Dominance Test work | |
| 1. <u>None</u> 2. | | | Number of Dominant S Are OBL, FACW, or FA | • |
| 3. | | | Total Number of Domi | · ` ` ` |
| 4. | | | Across All Strata: | 1 (B) |
| | =Tota | al Cover | Percent of Dominant S | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | | Are OBL, FACW, or FA | AC: <u>0.0%</u> (A/B) |
| 1. <u>None</u> 2. | | | Prevalence Index wo | rkshoot: |
| 3. | | | Total % Cover of: | |
| 4. | | | OBL species 0 | |
| 5. | | | FACW species 0 | x 2 = 0 |
| | =Tota | al Cover | FAC species 0 | |
| Herb Stratum (Plot size: 5' radius) | 25 | Vaa LIDI | FACU species 10 | |
| Taeniatherum caput-medusae Ventenata dubia | 10 | Yes UPL UPL | UPL species 45 Column Totals: 55 | |
| Sisymbrium altissimum | 10 | No FACU | Prevalence Index = | |
| 4. | | | | |
| 5. | | | Hydrophytic Vegetati | on Indicators: |
| 6 | | | Dominance Test is | |
| 7 | | | Prevalence Index | |
| 8 | 55 =Tota | al Cover | · · · | aptations ¹ (Provide supporting sor on a separate sheet) |
| Woody Vine Stratum (Plot size: 30' radius) | | ai Covei | | ophytic Vegetation ¹ (Explain) |
| 1. None | | | | oil and wetland hydrology must |
| 2. | | | be present, unless dist | |
| | =Tot | al Cover | Hydrophytic | |
| 0/ Para Crayand in Harb Strature 45 | over of Distin On | unt 0 | Vegetation | No. V |
| | over of Biotic Cr | ust 0 | Present? Yes_ | No_X |
| Remarks: | | | | |
| | | | | |

| | | to the depth | | | | tor or c | onfirm the absence | of indicators.) |
|------------------------|-------------------------|-------------------------|---------------------|------------|-------------------|------------------|---|---|
| Depth | Matrix | | | x Featu | | | | |
| (inches) | Color (moist) | % | Color (moist) | <u>%</u> | Type ¹ | Loc ² | Texture | Remarks |
| 0-6 | 7.5YR 3/1 | 95 | 7.5YR 5/8 | 5 | RM | M | Loamy/Clayey | silty clay |
| | | | | | | | | |
| | | | | | | | | |
| | - | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Dep | letion RM-R | Peduced Matrix (| | ered or C | nated S | and Grains ² I or | cation: PL=Pore Lining, M=Matrix. |
| | • | | | | | valeu 3 | | ors for Problematic Hydric Soils ³ : |
| _ | Indicators: (Applica | ible to all Lr | | | | | | - |
| Histosol | | | Sandy Re | | | | | n Muck (A9) (LRR C) |
| | pipedon (A2) | | Stripped N | | | | | n Muck (A10) (LRR B) |
| Black Hi | | | Loamy Mu | - | | | | -Manganese Masses (F12) (LRR D) |
| | n Sulfide (A4) | | Loamy Gle | | | | | uced Vertic (F18) |
| | d Layers (A5) (LRR C | ;) | Depleted I | , | , | | | Parent Material (F21) |
| | ıck (A9) (LRR D) | | X Redox Da | | | | | / Shallow Dark Surface (F22) |
| I — · | d Below Dark Surface | e (A11) | Depleted I | Dark Sur | face (F7) | | Othe | er (Explain in Remarks) |
| I —— | ark Surface (A12) | | Redox De | pression | ıs (F8) | | | |
| Sandy M | lucky Mineral (S1) | | | | | | | |
| Sandy G | Sleyed Matrix (S4) | ³ Indicators | of hydrophytic v | egetatio | n and we | tland hy | drology must be pres | sent, unless disturbed or problematic. |
| Restrictive | Layer (if observed): | | | | | | | |
| Type: | rocks | | | | | | | |
| Depth (in | nches): | 6 | _ | | | | Hydric Soil Preser | nt? Yes X No |
| refusal at 6" | due to rock. | | | | | | | |
| HYDROLO | GY | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | |
| Primary India | cators (minimum of o | ne is require | d; check all that | apply) | | | Seconda | ary Indicators (minimum of two required) |
| Surface | Water (A1) | | Salt Crust | (B11) | | | Wat | er Marks (B1) (Riverine) |
| High Wa | iter Table (A2) | | Biotic Crus | st (B12) | | | Sed | iment Deposits (B2) (Riverine) |
| Saturation | on (A3) | | Aquatic In | vertebra | tes (B13) | | Drift | Deposits (B3) (Riverine) |
| Water M | arks (B1) (Nonriveri | ne) | Hydrogen | Sulfide (| Odor (C1) |) | Drai | nage Patterns (B10) |
| Sedimer | nt Deposits (B2) (Nor | nriverine) | Oxidized F | Rhizosph | neres on I | _iving Ro | oots (C3) Dry- | Season Water Table (C2) |
| Drift Dep | oosits (B3) (Nonriver | ine) | X Presence | of Redu | ced Iron (| C4) | Cray | yfish Burrows (C8) |
| Surface | Soil Cracks (B6) | | Recent Iro | n Reduc | ction in Ti | lled Soils | s (C6) Satu | uration Visible on Aerial Imagery (C9) |
| Inundation | on Visible on Aerial I | magery (B7) | Thin Muck | Surface | e (C7) | | Sha | llow Aquitard (D3) |
| Water-S | tained Leaves (B9) | | Other (Exp | olain in F | Remarks) | | FAC | C-Neutral Test (D5) |
| Field Obser | vations: | | | | | | | |
| Surface Wat | er Present? Ye | :S | No X | Depth (i | inches): | | | |
| Water Table | | es | No X | | inches): | | 1 | |
| Saturation P | | | No X | | inches): | | Wetland Hydrolo | ogy Present? Yes X No |
| (includes car | | | | -1 - (| _ | | , | <u></u> |
| | corded Data (stream | gauge, mon | itoring well, aeria | l photos | , previous | sinspec | tions), if available: | |
| D . | | | | | | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Count | y: Wasco | | Sampling Date: 6/30/2023 |
|--|-------------------|---------------|------------------|---|--|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: SP-122A |
| Investigator(s): Joe Parzych, Lynda Oosterhuis | | Section, To | wnship, Ran | ge: T04S, R15E | |
| Landform (hillside, terrace, etc.): Swale | Loca | I relief (con | cave, conve | x, none): <u>concave</u> | Slope (%):5 |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.157797°</u> | | | Long: <u>-12</u> | 20.843690° | Datum: WGS 84 |
| Soil Map Unit Name: Bakeoven-Condon complex, 0-20% | slopes | | | NWI cla | ssification: None |
| Are climatic / hydrologic conditions on the site typical for t | his time of year | r? Y | es X | No (If no, | explain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysig | nificantly distur | rbed? Are | e "Normal Cir | rcumstances" prese | nt? Yes X No |
| Are Vegetation, Soil, or Hydrologyna | turally problema | atic? (If i | needed, expl | lain any answers in | Remarks.) |
| SUMMARY OF FINDINGS – Attach site map | showing s | ampling | point loca | ations, transect | ts, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | | Is the S | Sampled Are | ea | |
| Hydric Soil Present? Yes X No | | within | a Wetland? | Yes | <u>XNo</u> |
| Wetland Hydrology Present? Yes X No | | | | | |
| Remarks: | | | | | |
| The plot represents wetland conditions in a shallow swal | e along an epn | iemerai cha | innei. | | |
| VEGETATION – Use scientific names of pla | nts | | | | |
| • | | ominant I | ndicator | | |
| · · · · · · · · · · · · · · · · · · · | % Cover Sp | oecies? | Status | Dominance Test | |
| 1. 2. | | | | Number of Domina Are OBL, FACW, o | |
| 3. 4. | | | | Total Number of D Across All Strata: | ominant Species 2 (B) |
| | =Tota | al Cover | | Percent of Domina | ant Species That |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | | | Are OBL, FACW, o | or FAC: 100.0% (A/B) |
| 1 | | | _ | | |
| 2. 3. | | | | Prevalence Index Total % Cove | |
| 4. | | | | OBL species | $0 \qquad x = 0$ |
| 5. | | | | FACW species | 90 x 2 = 180 |
| <u>-</u> | =Tota | al Cover | | FAC species | 0 x 3 = 0 |
| Herb Stratum (Plot size: 5' radius) | | ., | O | FACU species | 10 x 4 = 40 |
| 1. Juncus tenuis | | Yes _ | FACW | UPL species | 0 	 x 5 = 0 |
| Carex sp. Poa bulbosa | 20 10 | Yes No | FACU FACU | Column Totals: Prevalence Ind | $\frac{100}{\text{ex}} = \text{B/A} = \frac{220}{2.20} $ (B) |
| 4. | | | | | |
| 5. | | | | Hydrophytic Vege | etation Indicators: |
| 6 | | | | X Dominance Te | |
| 7 | | | | X Prevalence Inc | |
| 8 | | | | | Adaptations ¹ (Provide supporting narks or on a separate sheet) |
| Woody Vine Stratum (Plot size: 30' radius) | 100 =Tota | al Cover | | | ydrophytic Vegetation ¹ (Explain) |
| Woody Vine Stratum (Plot size: 30' radius) 1. None | | | | | ic soil and wetland hydrology must |
| 2. | | | | • | disturbed or problematic. |
| | =Tota | al Cover | | Hydrophytic | ' |
| | _ | | | Vegetation | |
| % Bare Ground in Herb Stratum 0 % Co | ver of Biotic Cru | ust 0 | _ | Present? Y | 'es x No |
| Remarks: | | _ | | | |
| FACW assumed for Carex sp. | | | | | |

| Profile Desc Depth | cription: (Describe to Matrix | to the depti | | ument th ox Featur | | tor or c | confirm the absence o | f indicators.) | |
|-----------------------|---|------------------------|------------------------|-----------------------|-------------------|------------------|---------------------------------|---|-------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-2 | 10YR 3/1 | 90 | 7.5YR 4/6 | 10 | C | M | Loamy/Clayey | Prominent redox concentration | ıs |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
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| | · | | | | | | | | |
| | | | | | | | | | |
| | oncentration, D=Depl | | | | | oated S | | tion: PL=Pore Lining, M=Matrix. | |
| - | Indicators: (Applica | ble to all L | | | oted.) | | | s for Problematic Hydric Soils ³ : | |
| Histosol | ` ' | | Sandy Re | | | | | Muck (A9) (LRR C) | |
| | pipedon (A2) | | Stripped N | | | | | Muck (A10) (LRR B) | |
| Black Hi | ` ' | | Loamy Mu | | | | | Manganese Masses (F12) (LRR D) | |
| | n Sulfide (A4) | | Loamy Gl | - | | | | ced Vertic (F18) | |
| | d Layers (A5) (LRR C | •) | Depleted | , | , | | | Parent Material (F21) | |
| | ick (A9) (LRR D) | . (Δ44) | X Redox Da | | ` ' | | Very Shallow Dark Surface (F22) | | |
| | d Below Dark Surface ark Surface (A12) | e (A11) | Depleted Redox De | | | | Other | (Explain in Remarks) | |
| | lucky Mineral (S1) | | Redux De | pression | S (FO) | | | | |
| | Gleyed Matrix (S4) | ³ Indicator | s of hydrophytic y | /egetatio | n and we | tland hy | drology must be prese | nt, unless disturbed or problematic | • |
| | Layer (if observed): | - Indicator | | rogotatio | ir and we | lana ny | , arelegy must be proce | THE GENERAL CONTROL OF PROBLEMANCE | |
| Type: | rocks | | | | | | | | |
| Depth (ir | | 2 | | | | | Hydric Soil Present | ? Yes X No | |
| Remarks: | | _ | | | | | , | | |
| | to rocks at 3" | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | | | | | | | | | |
| - | drology Indicators: | | | | | | | | |
| | cators (minimum of or | ne is require | | | | | | y Indicators (minimum of two requires) | <u>red)</u> |
| | Water (A1) | | Salt Crust Biotic Cru | ` ' | | | | Marks (B1) (Riverine) | |
| | iter Table (A2) | | | | oo (P12) | | | nent Deposits (B2) (Riverine) | |
| Saturatio | arks (B1) (Nonriveri | no) | Aquatic In Hydrogen | | | | | Deposits (B3) (Riverine) age Patterns (B10) | |
| | nt Deposits (B2) (No n | - | Oxidized I | | , , | | | eason Water Table (C2) | |
| | posits (B3) (Nonriver | • | Presence | | | _ | · · · — · | sh Burrows (C8) | |
| | Soil Cracks (B6) | , | Recent Iro | | , | , | | ation Visible on Aerial Imagery (C9 |)) |
| | on Visible on Aerial Ir | magery (B7) | | | | | | ow Aquitard (D3) | , |
| | tained Leaves (B9) | 3-7() | Other (Ex | | | | | Neutral Test (D5) | |
| Field Obser | vations: | | | | | | | | |
| Surface Wat | er Present? Ye | s | No X | Depth (ii | nches): | | | | |
| Water Table | | | No X | Depth (ii | nches): | | | | |
| Saturation P | resent? Ye | s | No X | Depth (i | | | Wetland Hydrolog | y Present? Yes X No | |
| (includes cap | oillary fringe) | | | | | | | | |
| Describe Re | corded Data (etream | gauge, mor | nitoring well, aeria | al photos, | previous | s inspec | tions), if available: | | |
| | corded Data (Stream | gaage,e. | o , | | | | | | |
| Remarks: | corded Data (Stream | | | | | | | | |
| Remarks: | Corded Data (Stream | | | | | | | | |
| Remarks: | corded Data (Stream | gaage,e. | . | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/County: Wasco | | Sampling Date: | 6/30/2023 |
|---|----------------------|-------------------------|--|---|----------------|
| Applicant/Owner: Savion | | | State: OR | Sampling Point: | SP-122B |
| Investigator(s): Joe Parzych, Lynda Oosterhuis | ; | Section, Township, Ra | ange: T04S, R15E | | |
| Landform (hillside, terrace, etc.): Terrace | Loca | I relief (concave, conv | rex, none): Convex | Slop | oe (%): 3 |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.157797°</u> | | Long: - | 120.843690° | Datum: | WGS 84 |
| Soil Map Unit Name: Bakeoven-Condon complex, 0-20 | % slopes | _ | NWI classifi | cation: None | |
| Are climatic / hydrologic conditions on the site typical fo | r this time of year | r? Yes X | No (If no, exp | olain in Remarks.) | |
| Are Vegetation , Soil , or Hydrology s | significantly distur | bed? Are "Normal (| Circumstances" present? | Yes χ No |) |
| Are Vegetation, Soil, or Hydrologyr | naturally problema | atic? (If needed, ex | xplain any answers in Rer | narks.) | |
| SUMMARY OF FINDINGS – Attach site ma | | | cations, transects, | important featu | ıres, etc. |
| Hydrophytic Vegetation Present? Yes No |) X | Is the Sampled A | rea | | |
| | X | within a Wetland | | No X | |
| | <u> </u> | | | | |
| Remarks: | alama irrat arriair | de ef the lineau wetter | d removed the CD 400 | ^ | |
| This plot represents upland conditions on a swale side | -siope, just outsic | de of the linear wetian | a represented by SP-122 | A. | |
| VEGETATION – Use scientific names of p | lants. | | | | |
| T 0: (D) : (0) () | | minant Indicator | | | |
| <u>Tree Stratum</u> (Plot size: <u>30' radius</u>) 1. | % Cover Sp | oecies? Status | Dominance Test wor | | |
| 2. | | | Number of Dominant S Are OBL, FACW, or F. | • | 0 (A) |
| 3. | | | Total Number of Domi | | |
| 4. | | | Across All Strata: | | 2 (B) |
| | | al Cover | Percent of Dominant S | • | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | | Are OBL, FACW, or F. | AC: <u>0.</u> | .0% (A/B) |
| 1 | | | Prevalence Index wo | rkshoot: | |
| 3. | | | Total % Cover of | | iply by: |
| 4. | | | OBL species 0 | | 0 |
| 5. | | | FACW species 0 | x 2 = | 0 |
| | =Tota | al Cover | FAC species | | 0 |
| Herb Stratum (Plot size: 5' radius) | 00 | V | FACU species 6 | | 240 |
| Poa bulbosa Taeniatherum caput-medusae | | Yes FACU Yes UPL | UPL species 30 Column Totals: 90 | | 150 390 (B) |
| 3. | | 163 01 2 | Prevalence Index | | |
| 4. | | | | | |
| 5. | | | Hydrophytic Vegetat | ion Indicators: | |
| 6 | | | Dominance Test is | | |
| 7. | | | Prevalence Index | | |
| 8 | 90 =Tota | al Cover | · — · · · | aptations ¹ (Provide s s or on a separate s | |
| Woody Vine Stratum (Plot size: 30' radius) | | ai Covei | | ophytic Vegetation ¹ | • |
| 1 | | | ¹ Indicators of hydric so | | |
| 2. | | | be present, unless dis | • | 0, |
| | =Tota | al Cover | Hydrophytic | | |
| W.D. 0 11 11 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | Vegetation | | |
| | Cover of Biotic Cru | ust <u>0</u> | Present? Yes | No X | _ |
| Remarks: | | | | | |
| | | | | | |

| | • | o the depth | | | | tor or c | confirm the absence | of indicators.) | |
|-------------------|---|---------------|----------------------|-----------|-------------------|------------------|--|--|--|
| Depth (inches) | Matrix Color (moist) | 0/. | | x Featur | | Loc ² | Toyturo | Domarka | |
| (inches) | Color (moist) | <u>%</u> _ | Color (moist) | <u>%</u> | Type ¹ | | Texture | Remarks | |
| 0-1 | 10YR 3/1 | 90 | 7.5YR 4/6 | 10 | RM | M | Loamy/Clayey | 1 | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | _ | | | | | | |
| 1- 0.0 | | | | | | | 21 | | |
| | oncentration, D=Depl | | | | | oated S | | ation: PL=Pore Lining, M=Matrix. | |
| _ | ndicators: (Applica | DIE TO AII LI | • | | otea.) | | | rs for Problematic Hydric Soils ³ : | |
| Histosol | | | Sandy Red | | .) | | | Muck (A9) (LRR C) | |
| | ipedon (A2) | | Stripped M | | | | | Muck (A10) (LRR B) | |
| Black His | n Sulfide (A4) | | Loamy Mu Loamy Gle | • | . , | | | Manganese Masses (F12) (LRR D) uced Vertic (F18) | |
| | n Suilide (A4) Layers (A5) (LRR C |) | Depleted N | - | | | | | |
| | ck (A9) (LRR D) | , | Redox Dar | , | , | | Red Parent Material (F21) Very Shallow Dark Surface (F22) | | |
| | l Below Dark Surface | (A11) | Depleted D | | | | | r (Explain in Remarks) | |
| | rk Surface (A12) | (****) | Redox Dep | | | | | · (=piair iii rtomano) | |
| | ucky Mineral (S1) | | | | - (. 5) | | | | |
| | leyed Matrix (S4) | 3Indicators | s of hydrophytic y | egetatio | n and we | tland hy | vdrology must be prese | ent, unless disturbed or problematic. | |
| | ` , | | , , , , , , , | | | 1 | , | , | |
| Type: | _ayer (if observed): Rock | | | | | | | | |
| Depth (ir | | 1 | _ | | | | Hydric Soil Presen | t? Yes No X | |
| | | • | _ | | | | , | <u></u> | |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| | drology Indicators: | | | | | | | | |
| _ | ators (minimum of o | ne is reauire | ed: check all that a | (vlaar | | | Seconda | ry Indicators (minimum of two required) | |
| - | Water (A1) | | Salt Crust | | | | | er Marks (B1) (Riverine) | |
| | ter Table (A2) | | Biotic Crus | ` ' | | | | ment Deposits (B2) (Riverine) | |
| Saturation | | | Aquatic Inv | | es (B13) | | | Deposits (B3) (Riverine) | |
| | arks (B1) (Nonriveri | ne) | Hydrogen | | , , | | | nage Patterns (B10) | |
| | t Deposits (B2) (Nor | - | Oxidized R | | | | | Season Water Table (C2) | |
| Drift Dep | osits (B3) (Nonriver | ine) | Presence | | | _ | | fish Burrows (C8) | |
| Surface | Soil Cracks (B6) | | Recent Iro | n Reduc | tion in Ti | lled Soil | ls (C6) Satu | ration Visible on Aerial Imagery (C9) | |
| Inundation | on Visible on Aerial Ir | nagery (B7) | Thin Muck | Surface | (C7) | | Shall | ow Aquitard (D3) | |
| Water-S | ained Leaves (B9) | | Other (Exp | lain in R | emarks) | | FAC- | Neutral Test (D5) | |
| Field Obser | vations: | | | | | | | | |
| Surface Water | er Present? Ye | s | No X | Depth (ii | nches): | | | | |
| Water Table | Present? Ye | s | No X | Depth (ii | nches): | | | | |
| Saturation P | resent? Ye | s | No X | Depth (iı | nches): | | Wetland Hydrolog | gy Present? Yes No X | |
| (includes cap | oillary fringe) | | | | | | | | |
| Describe Re | corded Data (stream | gauge, mon | itoring well, aeria | l photos, | previous | s inspec | ctions), if available: | | |
| | | | | | | | | | |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | City/County: Wasco | | Sampling Date: | 6/30/2023 |
|---|------------------------------|---|--------------------|-----------------|
| Applicant/Owner: Savion | | State: OR | Sampling Point: | SP-123A |
| Investigator(s): Joe Parzych, Lynda Oosterhuis | Section, Township, Rai | nge: T04S, R15E | | |
| Landform (hillside, terrace, etc.): channel bottom | Local relief (concave, conve | ex, none): <u>concave</u> | Slope | e (%): <u>5</u> |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.157797°</u> | Long: <u>-1</u> | 20.843690° | Datum: | WGS 84 |
| Soil Map Unit Name: Bakeoven-Condon complex, 0-20% slopes | | NWI classific | cation: PSSA | |
| Are climatic / hydrologic conditions on the site typical for this time of | year? Yes X | No (If no, expl | ain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologysignificantly of | listurbed? Are "Normal C | ircumstances" present? | Yes X No | |
| Are Vegetation, Soil, or Hydrologynaturally prob | olematic? (If needed, exp | olain any answers in Rem | arks.) | |
| SUMMARY OF FINDINGS – Attach site map showin | g sampling point loc | ations, transects, i | mportant featu | res, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Ar | ea | | |
| Hydric Soil Present? Yes X No | within a Wetland? | Yes X | No | |
| Wetland Hydrology Present? Yes X No No | | | | |
| Remarks: Wetland plot. | | | | |
| vvetianu piot. | | | | |
| VEGETATION – Use scientific names of plants. | | | | |
| Absolute | Dominant Indicator | | | |
| Tree Stratum (Plot size: 30' radius) % Cover | Species? Status | Dominance Test work | | |
| 1 | | Number of Dominant S Are OBL, FACW, or FA | | 1 (A) |
| 3 | | Total Number of Domir | nant Species | |
| 4 | Total Cause | Across All Strata: | | 1(B) |
| Sapling/Shrub Stratum (Plot size: 15' radius) | =Total Cover | Percent of Dominant S Are OBL, FACW, or FA | • |).0% (A/B) |
| 1 | | , 022, | | (, 42) |
| 2. | | Prevalence Index wor | ksheet: | |
| 3 | | Total % Cover of: | Multip | oly by: |
| 4 | | OBL species 0 | | 0 |
| 5 | Total Cover | FACW species 30 FAC species 0 | | <u>80</u> 0 |
| Herb Stratum (Plot size: 5' radius) | - Total Gover | FACU species 0 | | 0 |
| 1. Juncus tenuis 25 | Yes FACW | UPL species 0 | x 5 = | 0 |
| 2. <u>Carex sp.</u> 5 | No FACW | Column Totals: 30 | `´ | 60 (B) |
| 3 | | Prevalence Index = | B/A = 2.00 | |
| 4 | | Hydrophytic Vegetation | on Indicators: | |
| 6. | | X Dominance Test is | | |
| 7. | | X Prevalence Index i | | |
| 8. | | Morphological Ada | | |
| | =Total Cover | | or on a separate s | • |
| Woody Vine Stratum (Plot size: 30' radius) | | Problematic Hydro | | |
| 1 | | ¹ Indicators of hydric so be present, unless dist | • | 0, |
| | =Total Cover | Hydrophytic | • | |
| | | Vegetation | | |
| % Bare Ground in Herb Stratum 70 % Cover of Bioti | c Crust 0 | Present? Yes_ | <u> </u> | - |
| Remarks: | | | | |
| | | | | |

| Depth | | | D = -! | | | | | | |
|---|--|--|--|---|---|-----------------------------|---|--|--|
| (inches) | Matrix Color (moist) | 0/ | | x Featur | | 1.002 | Toytura | Domorto | |
| (inches) | Color (moist) | <u>%</u> _ | Color (moist) | <u>%</u> | Type ¹ | Loc ² | Texture | Remarks | |
| 0-2 | 10YR 3/1 | 90 | 7.5YR 4/6 | 10 | RM | M | Loamy/Clayey | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | oncentration, D=Depl | | | | | oated S | | tion: PL=Pore Lining, M=Matrix. | |
| - | ndicators: (Application) | ble to all LR | • | | oted.) | | | s for Problematic Hydric Soils ³ : | |
| Histosol | ` ' | | Sandy Red | , , | | | | Muck (A9) (LRR C) | |
| | ipedon (A2) | | Stripped M | , | , | | | Muck (A10) (LRR B) | |
| Black His | ` ' | | Loamy Mu | | | | | Manganese Masses (F12) (LRR D) | |
| | n Sulfide (A4) | | Loamy Gle | | | | | ced Vertic (F18) | |
| | Layers (A5) (LRR C |) | Depleted N | | | | | Parent Material (F21) | |
| | ck (A9) (LRR D) | (0.4.4) | X Redox Dar | | | | Very Shallow Dark Surface (F22) | | |
| | Below Dark Surface | (A11) | Depleted D | | | | Otner | (Explain in Remarks) | |
| | rk Surface (A12) | | Redox Dep | ressions | S (F8) | | | | |
| | ucky Mineral (S1) leyed Matrix (S4) | 3Indicators | of budrophytic w | ogototio | and wa | tland by | drology must be proce | nt, unless disturbed or problematic. | |
| | | mulcators | s of flydropflytic v | egetatioi | i and we | lianu ny | diology must be prese | Tit, unless disturbed of problematic. | |
| | ayer (if observed): | | | | | | | | |
| Type: | rock | 0 | _ | | | | Undela Oall Bassact | 0 V V N- | |
| Depth (in | icnes): | 2 | _ | | | | Hydric Soil Present | ? Yes <u>X</u> No | |
| Remarks: | | | | | | | | | |
| Refusal at 2" | due to rocks. | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GV . | | | | | | | | |
| | | | | | | | | | |
| - | drology Indicators: | | | | | | | | |
| • | ators (minimum of or | | | | | | | | |
| | | ne is require | d; check all that a | | | | | y Indicators (minimum of two required) | |
| | Water (A1) | ne is require | Salt Crust | (B11) | | | Wate | Marks (B1) (Riverine) | |
| | ter Table (A2) | ne is require | Salt Crust Biotic Crus | (B11) t (B12) | (7.10) | | Water Sedin | Marks (B1) (Riverine) nent Deposits (B2) (Riverine) | |
| Saturatio | ter Table (A2) n (A3) | · | Salt Crust Biotic Crus Aquatic Inv | (B11) t (B12) vertebrat | | | Water Sedin Drift [| Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) | |
| Saturatio Water Ma | ter Table (A2) n (A3) arks (B1) (Nonriverii | ne) | Salt Crust Biotic Crust Aquatic Inv | (B11) t (B12) vertebrat Sulfide C | odor (C1) | | Water Sedin Drift [X Drain | Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) | |
| Saturatio Water Ma | ter Table (A2) in (A3) arks (B1) (Nonriverii t Deposits (B2) (Non | ne) riverine) | Salt Crust Biotic Crust Aquatic Inv Hydrogen S | (B11) t (B12) vertebrat Sulfide C | Odor (C1) eres on L | iving R | Water Sedin Drift [X Drain Oots (C3) Dry-S | r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) | |
| Saturatio Water Ma Sedimen Drift Dep | ter Table (A2) in (A3) arks (B1) (Nonriverii t Deposits (B2) (Non osits (B3) (Nonriveri | ne) riverine) | Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R X Presence of | (B11) t (B12) vertebrat Sulfide C hizosphof Reduc | Odor (C1) eres on Leed Iron (| iving R C4) | WaterSedinDrift [| r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) | |
| Saturatio Water Ma Sedimen Drift Dep Surface S | ter Table (A2) in (A3) arks (B1) (Nonriverii t Deposits (B2) (Non osits (B3) (Nonriveri Soil Cracks (B6) | ne) riverine) ne) | Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R X Presence o | (B11) t (B12) vertebrat Sulfide C hizosphof Reduc | Odor (C1) eres on Leed Iron (tion in Til | iving R C4) | Water Sedin Drift [| m Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) | |
| Saturatio Water Ma Sedimen Drift Dep Surface S | ter Table (A2) In (A3) In (A3) In (B1) (Nonrivering It Deposits (B2) (Non It Desits (B3) (Nonrivering It (B3) (Nonrivering It (B3) (Nonrivering It (B4) It (B4 | ne) riverine) ne) | Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R X Presence of Recent Iron Thin Muck | (B11) t (B12) vertebrat Sulfide C hizosph of Reduc n Reduc Surface | Odor (C1) eres on L eed Iron (tion in Til (C7) | iving R C4) | Water Sedin Drift [| Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) | |
| Saturatio Water Ma Sedimen Drift Dep Surface S Inundatio Water-St | ter Table (A2) In (A3) In (A3) In (A5) | ne) riverine) ne) | Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R X Presence o | (B11) t (B12) vertebrat Sulfide C hizosph of Reduc n Reduc Surface | Odor (C1) eres on L eed Iron (tion in Til (C7) | iving R C4) | Water Sedin Drift [| m Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) | |
| Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic Water-St | ter Table (A2) In (A3) In (A3) In (A5) | ne) riverine) ne) nagery (B7) | Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R X Presence of Recent Iron Thin Muck Other (Exp | (B11) t (B12) vertebrat Sulfide C hizosph of Reduc n Reduc Surface lain in R | Odor (C1) eres on L ed Iron (tion in Til (C7) emarks) | iving R C4) | Water Sedin Drift [| Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) | |
| Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic Water-St Field Observ Surface Water | ter Table (A2) in (A3) arks (B1) (Nonrivering t Deposits (B2) (Non osits (B3) (Nonrivering Soil Cracks (B6) on Visible on Aerial In ained Leaves (B9) vations: er Present? Yes | ne) riverine) ne) nagery (B7) | Salt Crust Biotic Crust Aquatic Inv Hydrogen: Oxidized R X Presence of Recent Iron Thin Muck Other (Exp | (B11) t (B12) vertebrat Sulfide C hizosph of Reduc n Reduc Surface lain in R | odor (C1) eres on L ed Iron (tion in Til (C7) emarks) | iving R C4) led Soil | Water Sedin Drift [| Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) | |
| Saturatio Water Ma Sedimen Drift Dep Surface S Inundatio Water-St Field Observ Surface Water Water Table | ter Table (A2) in (A3) arks (B1) (Nonrivering t Deposits (B2) (Nonrivering soil Cracks (B6) in Visible on Aerial Interior (B4) ained Leaves (B9) in Visible on Aerial Interior (B4) in Visible on Aerial (B4) | ne) riverine) ne) nagery (B7) | Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R X Presence of Recent Iron Thin Muck Other (Exp | (B11) t (B12) rertebrat Sulfide C hizosph of Reduc n Reduc Surface lain in R Depth (ir | odor (C1) eres on L ed Iron (tion in Til (C7) emarks) nches): _nches): | iving R C4) led Soil | Water Sedin Drift [| Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5) | |
| Saturatio Water Ma Sedimen Drift Dep Surface S Inundatio Water-St Field Observ Surface Water Water Table Saturation Pr | ter Table (A2) In (A3) In (A4) | ne) riverine) ne) nagery (B7) | Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R X Presence of Recent Iron Thin Muck Other (Exp | (B11) t (B12) vertebrat Sulfide C hizosph of Reduc n Reduc Surface lain in R | odor (C1) eres on L ed Iron (tion in Til (C7) emarks) nches): nches): _ | iving R C4) led Soil | Water Sedin Drift [| Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) | |
| Saturatio Water Ma Sedimen Drift Dep Surface S Inundatio Water-St Field Observ Surface Water Water Table Saturation Pr (includes cap | ter Table (A2) In (A3) | ne) riverine) ne) nagery (B7) | Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R X Presence of Recent Iron Thin Muck Other (Exp | (B11) t (B12) rertebrat Sulfide C hizosphof Reduct n Reduct Surface lain in R Depth (in | Odor (C1) eres on L ed Iron (tion in Til (C7) emarks) enches): enches): enches): | Living R C4) led Soil | Water Sedin Drift Z Drain | Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5) | |
| Saturatio Water Ma Sedimen Drift Dep Surface S Inundatio Water-St Field Observ Surface Water Water Table Saturation Pr (includes cap | ter Table (A2) In (A3) In (A4) | ne) riverine) ne) nagery (B7) | Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R X Presence of Recent Iron Thin Muck Other (Exp | (B11) t (B12) rertebrat Sulfide C hizosphof Reduct n Reduct Surface lain in R Depth (in | Odor (C1) eres on L ed Iron (tion in Til (C7) emarks) enches): enches): enches): | Living R C4) led Soil | Water Sedin Drift Z Drain | Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5) | |
| Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic Water-St Field Observ Surface Water Water Table Saturation Pr (includes cap Describe Rec | ter Table (A2) In (A3) | ne) riverine) ne) nagery (B7) | Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R X Presence of Recent Iron Thin Muck Other (Exp | (B11) t (B12) rertebrat Sulfide C hizosphof Reduct n Reduct Surface lain in R Depth (in | Odor (C1) eres on L ed Iron (tion in Til (C7) emarks) enches): enches): enches): | Living R C4) led Soil | Water Sedin Drift Z Drain | Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5) | |
| Saturatio Water Ma Sedimen Drift Dep Surface S Inundatio Water-St Field Observ Surface Water Water Table Saturation Pr (includes cap | ter Table (A2) In (A3) | ne) riverine) ne) nagery (B7) | Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R X Presence of Recent Iron Thin Muck Other (Exp | (B11) t (B12) rertebrat Sulfide C hizosphof Reduct n Reduct Surface lain in R Depth (in | Odor (C1) eres on L ed Iron (tion in Til (C7) emarks) enches): enches): enches): | Living R C4) led Soil | Water Sedin Drift Z Drain | Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5) | |
| Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic Water-St Field Observ Surface Water Water Table Saturation Pr (includes cap Describe Rec | ter Table (A2) In (A3) | ne) riverine) ne) nagery (B7) | Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R X Presence of Recent Iron Thin Muck Other (Exp | (B11) t (B12) rertebrat Sulfide C hizosphof Reduct n Reduct Surface lain in R Depth (in | Odor (C1) eres on L ed Iron (tion in Til (C7) emarks) enches): enches): enches): | Living R C4) led Soil | Water Sedin Drift Z Drain | Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5) | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | City/County: Wasco |) | Sampling Date: 6/30/2023 |
|--|------------------------------|---|---|
| Applicant/Owner: Savion | | State: OR | Sampling Point: SP-123B |
| Investigator(s): Joe Parzych, Lynda Oosterhuis | Section, Township, R | ange: <u>T04S, R15E</u> | |
| Landform (hillside, terrace, etc.): sideslope | Local relief (concave, con | vex, none): convex | Slope (%):5 |
| Subregion (LRR): LRR B Lat: 45.157797° | Long: | -120.843690° | Datum: WGS 84 |
| Soil Map Unit Name: Bakeoven- Condon complex, 0-20% slop | oes | NWI classific | cation: None |
| Are climatic / hydrologic conditions on the site typical for this ti | me of year? Yes X | No (If no, exp | lain in Remarks.) |
| Are Vegetation, Soil, or Hydrologysignification | antly disturbed? Are "Normal | Circumstances" present? | Yes X No |
| Are Vegetation, Soil, or Hydrologynaturall | y problematic? (If needed, e | explain any answers in Rem | narks.) |
| SUMMARY OF FINDINGS – Attach site map sho | owing sampling point lo | ocations, transects, i | mportant features, etc. |
| Hydrophytic Vegetation Present? Yes No X | Is the Sampled | Area | |
| Hydric Soil Present? Yes No X | within a Wetland | | No X |
| Wetland Hydrology Present? Yes No X | | | |
| Remarks: | | | |
| Upland plot just outside of wetland area represented by SP-1 | 23A. | | |
| VEGETATION – Use scientific names of plants. | | | |
| Abso | | | |
| Tree Stratum (Plot size: 30' radius) % Co | over Species? Status | Dominance Test worl | |
| 1. None 2. | | Number of Dominant S Are OBL, FACW, or FA | |
| 3. | | Total Number of Domir | |
| 4. | | Across All Strata: | (B) |
| Continue/Charle Charters (Diet cine 45) andiso | =Total Cover | Percent of Dominant S | • |
| Sapling/Shrub Stratum (Plot size: 15' radius) 1. None | | Are OBL, FACW, or FA | AC: 0.0% (A/B |
| 2. | | Prevalence Index wo | rksheet: |
| 3. | | Total % Cover of: | |
| 4 | | OBL species 0 | x 1 =0 |
| 5 | Tatal Carray | FACW species 0 | |
| Herb Stratum (Plot size: 5' radius) | =Total Cover | FAC species 0 FACU species 50 | |
| 1. Poa bulbosa 40 | Yes FACU | UPL species 0 | |
| 2. Bromus japonicus 10 | Yes FACU | Column Totals: 50 | (A) 200 (B) |
| 3 | | Prevalence Index = | = B/A = <u>4.00</u> |
| 4 | | Hydrophytic Vegetati | an Indicators |
| 5 | | Dominance Test is | |
| 7. | | Prevalence Index i | |
| 8. | | | aptations ¹ (Provide supporting |
| 50 | =Total Cover | | s or on a separate sheet) |
| Woody Vine Stratum (Plot size: 30' radius) | | | phytic Vegetation ¹ (Explain) |
| 1 | | ¹ Indicators of hydric so be present, unless dist | il and wetland hydrology must urbed or problematic. |
| | =Total Cover | Hydrophytic | |
| | | Vegetation | |
| | f Biotic Crust 0 | Present? Yes_ | No <u>X</u> |
| Remarks: Upland species. | | | |
| οριατία ορεόιεο. | | | |

SOIL Sampling Point: SP-123B

| Profile Desc Depth | ription: (Describe to Matrix | to the dept | | ıment th x Featur | | ator or o | confirm the absence o | f indicators.) | |
|-----------------------|---------------------------------|------------------------|------------------------------------|-----------------------------|-------------------|------------------|-----------------------|---|-----------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-1 | 10YR 3/1 | 100 | , | | | | Loamy/Clayey | Loam | |
| | | | | | | | | | |
| | | | | | | | | | |
| - | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | oncentration, D=Depl | | | | | oated S | | tion: PL=Pore Lining, M=Matri | |
| - | ndicators: (Applica | ible to all L | | | | | | s for Problematic Hydric Soil | s": |
| Histosol (| (A1) ipedon (A2) | | Sandy Red Stripped M | | | | | Muck (A9) (LRR C) Muck (A10) (LRR B) | |
| Black His | | | Loamy Mu | , | , | | | Manganese Masses (F12) (LRF | א פ |
| | n Sulfide (A4) | | Loamy Gle | • | . , | | | ced Vertic (F18) | () |
| | Layers (A5) (LRR C | 2) | Depleted N | | | | | Parent Material (F21) | |
| | ck (A9) (LRR D) | · · | Redox Dar | ` | , | | | Shallow Dark Surface (F22) | |
| | Below Dark Surface | e (A11) | Depleted D | | ` ' |) | | (Explain in Remarks) | |
| | rk Surface (A12) | , | Redox Dep | | | | | , | |
| Sandy M | ucky Mineral (S1) | | | | ` ' | | | | |
| Sandy G | leyed Matrix (S4) | ³ Indicator | rs of hydrophytic v | egetatio | n and we | etland hy | drology must be prese | nt, unless disturbed or problem | natic. |
| Restrictive L | ayer (if observed): | | | | | | | | |
| Type: | rocks | | | | | | | | |
| Depth (in | iches): | 1 | <u></u> | | | | Hydric Soil Present | ? Yes N | lo <u>X</u> |
| | | | | | | | | | |
| HYDROLO | | | | | | | | | |
| - | drology Indicators: | | | ادراممد | | | Cocondon | uladicatora (minimum of two re | المعينات ط/ |
| | ators (minimum of o | ne is require | ed; check all that a Salt Crust | | | | | y Indicators (minimum of two re · Marks (B1) (Riverine) | <u>equirea)</u> |
| | ter Table (A2) | | Biotic Crus | ` ' | | | | nent Deposits (B2) (Riverine) | |
| Saturatio | | | Aquatic Inv | | tes (B13) | , | | Deposits (B3) (Riverine) | |
| | arks (B1) (Nonriveri | ne) | Hydrogen | | , , | | | age Patterns (B10) | |
| Sedimen | t Deposits (B2) (Nor | riverine) | Oxidized R | | | | | eason Water Table (C2) | |
| Drift Dep | osits (B3) (Nonriver | ine) | Presence of | of Reduc | ced Iron (| (C4) | Crayfi | sh Burrows (C8) | |
| | Soil Cracks (B6) | | Recent Iron | n Reduc | tion in Ti | lled Soil | ls (C6)Satura | ation Visible on Aerial Imagery | (C9) |
| Inundatio | on Visible on Aerial Ir | magery (B7 |)Thin Muck | Surface | (C7) | | | ow Aquitard (D3) | |
| Water-St | ained Leaves (B9) | | Other (Exp | lain in R | (emarks | | FAC-I | Neutral Test (D5) | |
| Field Observ | | | | | | | | | |
| Surface Water | | s | | Depth (i | · - | | | | |
| Water Table | | | | | nches): | | Mad III : | B | I- V |
| Saturation Pr | | s | No X | Depth (i | nches): _ | | Wetland Hydrolog | y Present? Yes N | lo <u>X</u> |
| (includes cap | | | nitaring wall caria | Inhataa | n rovious | o inonos | stions) if availables | | |
| Describe Rec | corded Data (stream | gauge, moi | ilitoring well, aerla | priotos, | , previous | s mspec | aions), ii avallable: | | |
| | | | | | | | | | |
| Remarks: | | | | | | | | | |
| Remarks: | | | | | | | | | |
| Remarks: | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | nty: Wasco | | Sampling Date: | 6/30/2023 |
|--|----------------|------------------|---------------|--|-----------------------------------|-----------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | SP-124A |
| Investigator(s): Joe Parzych, Lynda Oosterhuis | | Section, T | Township, Ra | ange: <u>T04S, R15E</u> | | |
| Landform (hillside, terrace, etc.): channel bottom | | Local relief (co | oncave, conv | rex, none): concave | Slop | e (%): <u>5</u> |
| Subregion (LRR): LRR B Lat: 45.157797° | | | Long: - | 120.843690° | Datum: | WGS 84 |
| Soil Map Unit Name: Bakeoven-Condon complex, 0-20 | % slopes | | | NWI classifi | cation: PSSB | |
| Are climatic / hydrologic conditions on the site typical for | this time of | year? | Yes X | No (If no, exp | lain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologys | ignificantly o | disturbed? A | re "Normal (| Circumstances" present? | Yes X No |) |
| Are Vegetation, Soil, or Hydrologyn | aturally prob | olematic? (I | If needed, ex | xplain any answers in Rer | narks.) | |
| SUMMARY OF FINDINGS – Attach site ma | p showin | g sampling | g point lo | cations, transects, | important featu | ıres, etc. |
| Hydrophytic Vegetation Present? Yes X No | | Is the | Sampled A | rea | | |
| Hydric Soil Present? Yes X No | | withi | n a Wetland | ? Yes <u>X</u> | No | |
| Wetland Hydrology Present? Yes X No | | | | | | |
| Remarks: | | | | | | |
| Plot represents wetland conditions within a narrow cha | nnel in deep | canyon. | | | | |
| VEGETATION – Use scientific names of pl | ante | | | | | |
| VEGETATION OSC SCIENTING Harnes of pr | Absolute | Dominant | Indicator | 1 | | |
| <u>Tree Stratum</u> (Plot size: <u>30' radius</u>) | % Cover | Species? | Status | Dominance Test wor | ksheet: | |
| 1. | | | | Number of Dominant S | | 5 (A) |
| 2. 3. | | | | Are OBL, FACW, or FA | - | 5 (A) |
| 4. | | | | Total Number of Domi Across All Strata: | nant Species | 5 (B) |
| | : | =Total Cover | | Percent of Dominant S | Species That | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | | | Are OBL, FACW, or FA | AC: 10 | 0.0% (A/B) |
| 1. Alnus rhombifolia | 5 | Yes | FACW | | | |
| Prunus virginiana 3. | 5 | Yes | FAC | Prevalence Index wo Total % Cover of | | iply by: |
| 4. | | | | OBL species 20 | | 20 |
| 5. | | | | FACW species 3 | 5 x 2 = | 70 |
| | 10 | =Total Cover | | FAC species 55 | | 165 |
| Herb Stratum (Plot size: 5' radius) | 20 | Vaa | FACW | FACU species 0 | | 0 |
| Epilobium ciliatum Mimulus guttatus | 20 | Yes Yes | OBL | UPL species 0 Column Totals: 11 | | 0 255 (B) |
| 3. Aquilegia formosa | 50 | Yes | FAC | Prevalence Index | | |
| 4. | | | | | | |
| 5 | | | | Hydrophytic Vegetat | | |
| 6 | | | | X Dominance Test is | | |
| 7. 8. | | | | X Prevalence Index | is ≤3.0° aptations¹ (Provide : | supporting |
| o | 100 | =Total Cover | | | s or on a separate s | |
| Woody Vine Stratum (Plot size: 30' radius) | | | | Problematic Hydro | ophytic Vegetation ¹ | (Explain) |
| 1 | | | | ¹ Indicators of hydric so | oil and wetland hydr | ology must |
| 2 | | T-1-1-0 | | be present, unless dis | turbed or problemat | ic. |
| | | =Total Cover | | Hydrophytic | | |
| % Bare Ground in Herb Stratum 0 % C | over of Bioti | ic Crust 0 | | Vegetation Present? Yes | X No | |
| Remarks: | | | <u> </u> | | | |
| | | | | | | |
| | | | | | | |

SOIL Sampling Point: SP-124A

| | • | to the depti | | | | ator or c | confirm the absence | of indicators.) | |
|-------------------------|-----------------------------|------------------------|----------------------|-------------|-------------------|------------------|------------------------------|--|----------|
| Depth (inches) | Matrix | 0/ | | x Featur | | Loc ² | Toyturo | Domorko | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc | Texture | Remarks | — |
| 0-8 | 7.5YR 3/1 | 100 | | | | | Loamy/Clayey | Loam | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | _ |
| | | | | | | | | | _ |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Depl | etion, RM=I | Reduced Matrix, C | S=Cove | red or C | oated S | and Grains. ² Loc | ation: PL=Pore Lining, M=Matrix. | |
| Hydric Soil I | ndicators: (Applica | ble to all L | RRs, unless othe | rwise n | oted.) | | Indicato | rs for Problematic Hydric Soils ³ : | |
| Histosol | (A1) | | Sandy Red | lox (S5) | | | 1 cm | Muck (A9) (LRR C) | |
| Histic Ep | ipedon (A2) | | Stripped M | atrix (Se | 5) | | 2 cm | Muck (A10) (LRR B) | |
| Black His | | | Loamy Mu | cky Mine | eral (F1) | | Iron- | Manganese Masses (F12) (LRR D) | |
| X Hydroge | n Sulfide (A4) | | Loamy Gle | yed Mat | rix (F2) | | Redu | uced Vertic (F18) | |
| Stratified | Layers (A5) (LRR C | ;) | Depleted N | , | , | | | Parent Material (F21) | |
| 1 cm Mu | ck (A9) (LRR D) | | Redox Dar | | | | | Shallow Dark Surface (F22) | |
| Depleted | Below Dark Surface | (A11) | Depleted D | ark Sur | face (F7) |) | Othe | er (Explain in Remarks) | |
| | rk Surface (A12) | | Redox Dep | ression | s (F8) | | | | |
| Sandy M | ucky Mineral (S1) | | | | | | | | |
| Sandy G | leyed Matrix (S4) | ³ Indicator | s of hydrophytic v | egetatio | n and we | etland hy | drology must be pres | ent, unless disturbed or problematic. | |
| Restrictive L | ayer (if observed): | | | | | | | | |
| Type: | hard ground/ | rocks | | | | | | | |
| Depth (ir | iches): | 8 | | | | | Hydric Soil Presen | t? Yes X No | |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| Wetland Hyd | drology Indicators: | | | | | | | | |
| - | ators (minimum of o | ne is require | ed: check all that a | nnly) | | | Seconda | ry Indicators (minimum of two require | ed) |
| X Surface | | no io rogane | Salt Crust | | | | | er Marks (B1) (Riverine) | <u> </u> |
| | ter Table (A2) | | Biotic Crus | ` ' | | | | ment Deposits (B2) (Riverine) | |
| X Saturation | | | Aquatic Inv | | es (R13) | | | Deposits (B3) (Riverine) | |
| | arks (B1) (Nonriveri | ne) | X Hydrogen | | , , | | | nage Patterns (B10) | |
| | t Deposits (B2) (Nor | - | Oxidized R | | | | | Season Water Table (C2) | |
| | osits (B3) (Nonriver | - | Presence of | | | - | | rfish Burrows (C8) | |
| | Soil Cracks (B6) | | Recent Iro | | | | | ration Visible on Aerial Imagery (C9) | |
| | on Visible on Aerial Ir | nagery (B7) | | | | | | low Aquitard (D3) | |
| | ained Leaves (B9) | | Other (Exp | | | | | -Neutral Test (D5) | |
| Field Observ | . , | | | | | | <u> </u> | | |
| Surface Water | | s X | No | Depth (ii | nches). | 1 | | | |
| Water Table | | | | Depth (ii | · - | 0 | | | |
| Saturation Pr | | s <u> </u> | | Depth (ii | · - | 0 | Wetland Hydrolo | gy Present? Yes X No | |
| (includes cap | | <u> </u> | | Popui (II | .5.103). | | Trottana riyarolo | g, | — |
| | corded Data (stream | gauge mor | nitoring well aeria | nhotos | previous | s inspec | tions), if available: | | |
| 20001100 1100 | Julia Data (Strodill | gaago, moi | omg won, aona | , p. 10103, | PIOVIOUS | - mopou | , available. | | |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | nty: Wasco | | Sampling Date: | 6/30/2023 |
|---|----------------|------------------|---------------|---|---|------------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | SP-124B |
| Investigator(s): Joe Parzych, Lynda Oosterhuis | | Section, 7 | Γownship, Ra | ange: T04S, R15E | | |
| Landform (hillside, terrace, etc.): hillside | | Local relief (co | oncave, conv | rex, none): convex | Slop | e (%): <u>10</u> |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.157797°</u> | | | Long: | 120.843690° | Datum: | WGS 84 |
| Soil Map Unit Name: Bakeoven-Condon complex, 0-20 | % slopes | | | NWI classifi | cation: None | |
| Are climatic / hydrologic conditions on the site typical for | or this time o | f year? | Yes X | No (If no, exp | lain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologys | significantly | disturbed? A | Are "Normal (| Circumstances" present? | Yes X No | |
| Are Vegetation, Soil, or Hydrologyr | naturally pro | blematic? (| If needed, ex | xplain any answers in Ren | narks.) | |
| SUMMARY OF FINDINGS – Attach site ma | ap showir | ng sampling | g point lo | cations, transects, i | important featu | ıres, etc. |
| Hydrophytic Vegetation Present? Yes No | . X | Is the | Sampled A | rea | | |
| | X | | n a Wetland | | No X | |
| Wetland Hydrology Present? Yes No | <u>X</u> | | | | | |
| Remarks: | | | | | | |
| Sideslope above channel. | | | | | | |
| VEGETATION – Use scientific names of p | lants. | | | | | |
| | Absolute | Dominant | Indicator | 1 | | |
| Tree Stratum (Plot size: 30' radius) | % Cover | Species? | Status | Dominance Test wor | | |
| 1 | | | | Number of Dominant S Are OBL, FACW, or FA | • | 0 (A) |
| 3. | | | | Total Number of Domi | | (/.) |
| 4. | | | | Across All Strata: | | 4 (B) |
| | | =Total Cover | | Percent of Dominant S | • | |
| Sapling/Shrub Stratum (Plot size: 15' radius) 1. Artemisia tridentata | 5 | Yes | UPL | Are OBL, FACW, or FA | AC: 0. | <u>0%</u> (A/B) |
| | | 168 | UPL | Prevalence Index wo | rksheet: | |
| 3. | | | | Total % Cover of: | | ply by: |
| 4. | | | | OBL species 0 | x 1 = | 0 |
| 5 | | | | FACW species 0 | | 0 |
| Herb Stratum (Plot size: 5' radius) | 5 | =Total Cover | | FAC species 0 FACU species 45 | | <u>0</u> 80 |
| 1. Bromus japonicus | 20 | Yes | FACU | UPL species 30 | | 50 |
| 2. Bromus tectorum | 25 | Yes | UPL | Column Totals: 75 | 5 (A) 3 | (B) |
| 3. Poa bulbosa | 20 | Yes | FACU | Prevalence Index : | = B/A = <u>4.40</u> | |
| Achillea millefolium 5. | 5 | No | FACU | Hydrophytic Vogetati | ion Indicators | |
| 5. 6. | | | | Hydrophytic Vegetati Dominance Test is | | |
| 7 | | | | Prevalence Index | | |
| 8. | | | | | aptations ¹ (Provide s | |
| W 1 1/1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | =Total Cover | | | s or on a separate s | • |
| Woody Vine Stratum (Plot size: 30' radius) | | | | | phytic Vegetation ¹ | , |
| 1 2. | | | | ¹ Indicators of hydric so be present, unless dist | | |
| | | =Total Cover | | Hydrophytic | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | | | | Vegetation | | |
| | Cover of Biot | ic Crust 0 | | Present? Yes | No_X | _ |
| Remarks: No hydrophytic vegetation present. | | | | | | |
| 140 Hydrophytic vegetation present. | | | | | | |

SOIL Sampling Point: SP-124B

| Profile Desc Depth | ription: (Describe note of Matrix | to the dept | | ıment th x Featur | | ator or o | confirm the absence o | f indicators.) | |
|-----------------------|---|--------------|------------------------|-----------------------------|-------------------|------------------|------------------------|---|-------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-3 | 7.5YR 3/1 | 100 | (, , , , | | | | Loamy/Clayey | | |
| | | | | | | | | | |
| | | | | | | | | | |
| · | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | oncentration, D=Dep | | | | | oated S | | ion: PL=Pore Lining, M=Matr | |
| | ndicators: (Applica | ble to all L | | | | | | for Problematic Hydric Soi | ls": |
| Histosol | ` ' | | Sandy Red | | | | | Muck (A9) (LRR C) | |
| | ipedon (A2) | | Stripped M | | | | | Muck (A10) (LRR B) | B D) |
| Black His | ` ' | | Loamy Mu | - | | | | langanese Masses (F12) (LRI | ξ D) |
| | n Sulfide (A4) Layers (A5) (LRR C | •1 | Loamy Gle Depleted N | | | | | ced Vertic (F18) arent Material (F21) | |
| | ck (A9) (LRR D) | '') | Redox Dar | ` | , | | | Shallow Dark Surface (F22) | |
| | Below Dark Surface | (A11) | Depleted D | | ` ' | ١ | | (Explain in Remarks) | |
| | rk Surface (A12) | , (, , , , , | Redox Dep | | , , | | | (Explain in Romano) | |
| | ucky Mineral (S1) | | | | - () | | | | |
| | leyed Matrix (S4) | 3Indicato | rs of hydrophytic v | egetatio | n and we | tland hy | drology must be preser | nt, unless disturbed or problem | natic. |
| Restrictive L | _ayer (if observed): | | | | | | | | |
| Type: | rocks | | | | | | | | |
| Depth (in | nches): | 3 | | | | | Hydric Soil Present | ? Yes N | No_X |
| | | | | | | | | | |
| HYDROLO | | | | | | | | | |
| _ | drology Indicators: | | | | | | | | |
| | ators (minimum of o | ne is requir | | | | | | / Indicators (minimum of two r | equired) |
| | Water (A1) ter Table (A2) | | Salt Crust Biotic Crus | ` ' | | | | Marks (B1) (Riverine) ent Deposits (B2) (Riverine) | |
| Saturatio | | | Aquatic Inv | | as (R13) | | | eposits (B3) (Riverine) | |
| | arks (B1) (Nonriveri | ne) | Hydrogen | | , , | | | age Patterns (B10) | |
| | t Deposits (B2) (Nor | • | Oxidized R | | | | | eason Water Table (C2) | |
| | osits (B3) (Nonriver | - | Presence of | | | _ | | sh Burrows (C8) | |
| | Soil Cracks (B6) | • | Recent Iron | n Reduc | tion in Ti | lled Soil | ls (C6) Satura | ation Visible on Aerial Imagery | (C9) |
| Inundation | on Visible on Aerial Ir | magery (B7 |) Thin Muck | Surface | (C7) | | Shallo | w Aquitard (D3) | |
| Water-St | ained Leaves (B9) | | Other (Exp | lain in R | Remarks) | | FAC-N | Neutral Test (D5) | |
| Field Observ | vations: | | | | | | | | |
| Surface Water | | s | No X | Depth (i | nches): | | | | |
| Water Table | | | | | nches): | | | | |
| Saturation Pr | | s | No X | Depth (i | nches): | | Wetland Hydrolog | y Present? Yes N | No <u>X</u> |
| (includes cap | <u> </u> | | | | | | | | |
| Describe Red | corded Data (stream | gauge, mo | nıtorıng well, aerial | pnotos. | , previou | s inspec | tions), if available: | | |
| | | | | | | | | | |
| Remarks: | | | | | | | | | |
| Remarks: | | | | | | | | | |
| Remarks: | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | nty: Wasco | | Sampling Date: | 6/27/2023 |
|---|---------------------|-------------------|---------------------|--|---|------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | SP-200A |
| Investigator(s): Kevin Fagan, Katie Pyne | | Section, T | ownship, Ra | nge: S02, T05S, R15E | | |
| Landform (hillside, terrace, etc.): Depressional area | L | ocal relief (co | ncave, conv | ex, none): Concave | Slo | pe (%):2 |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.1681313</u> | 0 | | Long: <u>-</u> 1 | 20.8937267° | Datum: | WGS 84 |
| Soil Map Unit Name: Condon-Bakeoven complex, 2 to | 20 percent sl | opes (62884) | | NWI classifi | cation: None | |
| Are climatic / hydrologic conditions on the site typical f | or this time of | year? | Yes X | No (If no, exp | olain in Remarks.) | |
| Are Vegetation , Soil , or Hydrology | significantly d | isturbed? A | re "Normal C | circumstances" present? | Yes X N | lo |
| Are Vegetation, Soil, or Hydrology | | | | plain any answers in Rer | | |
| SUMMARY OF FINDINGS – Attach site m | | | g point lo | ations, transects, | important feat | ures, etc. |
| Hydrophytic Vegetation Present? Yes N | o X | Is the | Sampled A | rea | | |
| | o X | | n a Wetland | | No_X_ | |
| Wetland Hydrology Present? Yes X N | 0 | | | | | |
| Remarks: This location was initially suspected to be a wetland by | ased on aeria | I imagery and | I due to the p | resence of surface soil c | racks, but was det | ermined |
| non-wetland, based on high chroma soil matrix, trace | | | | | | |
| VEGETATION – Use scientific names of p | | | | | | |
| <u>Tree Stratum</u> (Plot size: 30' radius) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test wor | kshoot: | |
| 1. | 70 COVE | opecies: | Status | Number of Dominant S | | |
| 2. | | | | Are OBL, FACW, or F | • | 0 (A) |
| 3. 4. | | | | Total Number of Domi Across All Strata: | nant Species | 2 (B) |
| - | = | Total Cover | | Percent of Dominant S | Species That | `` |
| Sapling/Shrub Stratum (Plot size: 15' radius |) | | | Are OBL, FACW, or F. | AC: (| 0.0% (A/B) |
| 1. | | | | | | |
| 2. 3. | | | | Prevalence Index wo Total % Cover of | | tiply by: |
| 4. | | | | OBL species 0 | | 0 |
| 5. | | | | FACW species 0 | | 0 |
| | = | Total Cover | | FAC species 0 |) x 3 = | 0 |
| Herb Stratum (Plot size: 5' radius) | | | | FACU species 3 | 0 x 4 = | 120 |
| 1. bromus tectorum | 10 | No | UPL | UPL species 3 | 0 x 5 = | 150 |
| 2. taeniatherum caput-medusae | 20 | Yes | UPL | Column Totals: 6 | 0(A) | 270 (B) |
| 3. Lepidium perfoliatum | 10 | No | FACU | Prevalence Index | = B/A = 4.5 | 0 |
| 4. Bromus japonicus | 20 | Yes | FACU | | | |
| 5 | | | | Hydrophytic Vegetat | | |
| 6 | | | | Dominance Test is | | |
| 7 | | | | Prevalence Index | | |
| 8 | | | | | aptations ¹ (Provide s or on a separate | |
| Mondy Vine Stratum (Diet size, 20) radius | | Total Cover | | | s or on a separate ophytic Vegetation | |
| Woody Vine Stratum (Plot size: 30' radius 1. | | | | | | ` ' ' |
| 1 | | | | ¹ Indicators of hydric so be present, unless dis | | |
| | | Total Cover | | Hydrophytic | , | |
| | | | | Vegetation | | |
| % Bare Ground in Herb Stratum 40 % | Cover of Biotic | Crust 0 | _ | Present? Yes | No X | _ |
| Remarks: | | | | | | |
| | | | | | | |

SOIL Sampling Point: SP-200A

| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Company Clayey Distinct redox concentrations |
|--|
| 0-6 10YR 3/3 97 5YR 4/4 3 C M Loamy/Clayey Distinct redox concentrations 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 1 Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) 1 Histosol (A1) 2 Sandy Redox (S5) 3 Histic Epipedon (A2) 4 Histosol (A2) 5 Stripped Matrix (S6) 5 Black Histic (A3) 4 Loamy Mucky Mineral (F1) 5 Hydrogen Sulfide (A4) 6 Hydrogen Sulfide (A4) 7 Loamy Gleyed Matrix (F2) 8 Redox Derbeted Matrix (F3) 9 Loamy Gleyed Matrix (F3) 1 C M Loamy/Clayey Distinct redox concentrations 2 Loaming, M=Matrix. 1 Indicators for Problematic Hydric Soils 3: 1 c m Muck (A9) (LRR C) 1 c m Muck (A9) (LRR C) 1 c m Muck (A9) (LRR D) 8 Reduced Vertic (F18) 8 Red Parent Material (F21) 9 Loamy Gleyed Matrix (F3) 1 c m Muck (A9) (LRR D) 9 Redox Dark Surface (F6) 9 Very Shallow Dark Surface (F22) 1 Thick Dark Surface (A12) 1 Redox Depressions (F8) 1 C Muck (A9) (LRR D) 1 C m Muck |
| ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Stripped Matrix (F2) Stratified Layers (A5) (LRR C) Stratified Layers (A5) (LRR C) 1 cm Muck (A10) (LRR B) Iron-Manganese Masses (F12) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 cm Muck (A9) (LRR B) Iron-Manganese Masses (F12) (LRR D) Reduced Vertic (F18) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Redox Depressions (F8) Sandy Mucky Mineral (S1) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 cm Muck (A9) (LRR B) Iron-Manganese Masses (F12) (LRR D) Reduced Vertic (F18) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Redox Depressions (F8) Sandy Mucky Mineral (S1) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 cm Muck (A9) (LRR B) Iron-Manganese Masses (F12) (LRR D) Reduced Vertic (F18) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Redox Depressions (F8) Sandy Mucky Mineral (S1) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 cm Muck (A9) (LRR B) Iron-Manganese Masses (F12) (LRR D) Reduced Vertic (F18) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Redox Depressions (F8) Sandy Mucky Mineral (S1) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 cm Muck (A9) (LRR B) Iron-Manganese Masses (F12) (LRR D) Reduced Vertic (F18) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Redox Depressions (F8) Sandy Mucky Mineral (S1) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 cm Muck (A9) (LRR B) Iron-Manganese Masses (F12) (LRR D) Reduced Vertic (F18) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Redox Depressions (F8) Sandy Mucky Mineral (S1) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 cm Muck (A9) (LRR B) Iron-Manganese Masses (F12) (LRR D) Reduced Vertic (F18) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Redox Depressions (F8) Sandy Mucky Mineral (S1) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 cm Muck (A9) (LRR B) Iron-Manganese Masses (F12) (LRR D) Reduced Vertic (F18) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Redox Depressions (F8) Sandy Mucky Mineral (S1) |
| Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR C) Depleted Matrix (F2) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) A cm Muck (A9) (LRR C) Stratified Layers (A5) (LRR C) Depleted Dark Surface (F7) Redox Depressions (F8) Sandy Mucky Mineral (S1) |
| Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR D) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Reduced Vertic (F |
| Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR D) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F2) Reduced Vertic (F18) Other (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) |
| Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (F21) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) Redox Depressions (F8) |
| Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Matrix (F3) Red Parent Material (F21) Very Shallow Dark Surface (F22) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Redox Depressions (F8) |
| 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Very Shallow Dark Surface (F22) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) |
| Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Redox Depressions (F8) Other (Explain in Remarks) |
| Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) |
| Sandy Mucky Mineral (S1) |
| |
| Sandy Gleyed Matrix (S4) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. |
| Restrictive Layer (if observed): |
| Type: Bedrock |
| Depth (inches): 6 Hydric Soil Present? Yes No X |
| Remarks: |
| Chroma value does not meet for F6, while percentage of redox does not meet for F8. |
| |
| |
| |
| HYDROLOGY |
| Wotland Hydrology Indicators: |
| Wetland Hydrology Indicators: |
| Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Salt Crust (B11) Secondary Indicators (minimum of two required) Water Marks (B1) (Riverine) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Salt Crust (B12) Secondary Indicators (minimum of two required water (B11) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Secondary Indicators (minimum of two required water (B11) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) |
| Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Riverine) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Secondary Indicators (minimum of two required water flow required for two required flow required fl |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Riverine) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) X Surface Soil Cracks (B6) Secondary Indicators (minimum of two required Water Marks (B1) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Riverine) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Secondary Indicators (minimum of two required water flow required for two required flow required fl |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Secondary Indicators (minimum of two required Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water (Explain in Remarks) Secondary Indicators (minimum of two required water required (Marks (B1)) (Riverine) Water Marks (B1) (Riverine) Drift Deposits (B2) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Marks (B9) Primary Indicators (minimum of two required (Marks (B1)) (Riverine) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Marks (B9) Thin Muck Surface (C7) Water Stained Leaves (B9) Presence of No X Depth (inches): Secondary Indicators (minimum of two required water required (minimum of two required (mi |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) X Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Marks (B9) Other (Explain in Remarks) Secondary Indicators (minimum of two required water follows (B1)) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Primary Indicators (minimum of two required (Minimu |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Riverine) Biotic Crust (B12) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Fresence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Other (Explain in Remarks) Fact-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Sediment Deposits (B1) (Riverine) Drainage Patterns (B10) Dra |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Sediment Deposits (B2) (Riverine) Primary Indicators (minimum of two required (B12) Sediment Deposits (B2) (Riverine) Mater Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Mater Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Riverine) Biotic Crust (B12) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Fresence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Other (Explain in Remarks) Fact-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Sediment Deposits (B1) (Riverine) Drainage Patterns (B10) Dra |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | nty: Wasco | | | Sampling Date: | 6/27/ | /2023 |
|--|---------------------|----------------------|---------------------------|------------------------|---------------------------|-------------------------------------|-------------|-------|
| Applicant/Owner: Savion | | | | State: | OR | Sampling Point: | : SP-2 | 201A |
| Investigator(s): Kevin Fagan, Katie Pyne | | Section, T | ownship, Ran | ge: S35, T | 04S, R15E | | | |
| Landform (hillside, terrace, etc.): Gully | L | ocal relief (co | oncave, conve | x, none): | concave | Slo | ope (%): | 5 |
| Subregion (LRR): LRR B Lat: 45.178078 | 7° | | Long: -12 | - 0.8947594° | | Datum: | : WGS | 84 |
| Soil Map Unit Name: Bakeoven Condon complex, 2 to | 20 percent sl | opes (62881) | | ! | NWI classifi | cation: PEM1B | } | |
| Are climatic / hydrologic conditions on the site typical | | | Yes X | No | (If no, exp | lain in Remarks.) | | |
| Are Vegetation, Soil, or Hydrology | | - | | | | | No | |
| Are Vegetation, Soil, or Hydrology | =" | | If needed, exp | | | | | • |
| SUMMARY OF FINDINGS – Attach site m | _ | | | • | | | tures, | etc. |
| Hydric Soil Present? Yes X | lo | | e Sampled Aron a Wetland? | | Yes X | No | | |
| Remarks: The plot represents wetland condtions in a linear wet apparently near the ground surface. | land that cove | rs the invert o | f a gully along | which the g | roundwater | surface elevation | interface | e is |
| VEGETATION – Use scientific names of | plants. | | | | | | | |
| <u>Tree Stratum</u> (Plot size: 30' radius) | Absolute % Cover | Dominant Species? | Indicator | Dominana | o Toot wor | kahaati | | |
| 1. | % Cover | Species? | Status | | e Test worl | Species That | | |
| 2. | | | | | FACW, or FA | • | 4 | (A) |
| 3. | | | | Total Num | ber of Domii | nant Species | | • |
| 4 | | | | Across All | Strata: | <u>—</u> | 4 | (B) |
| Sapling/Shrub Stratum (Plot size: 15' radius 1. | | :Total Cover | | | Dominant S FACW, or FA | Species That AC: <u>1</u> | 00.0% | (A/B) |
| 2. | | | | Prevalenc | e Index wo | rksheet: | | |
| 3. | | | | | % Cover of: | | ıltiply by: | |
| 4 5. | | | | OBL species | | | 30 60 | - |
| J | · ₌ | Total Cover | | FAC speci | | | 45 | - |
| Herb Stratum (Plot size: 5' radius) | | | | FACU spe | | | 0 | - |
| 1. Mimulus lewisii | 15 | Yes | FACW | UPL specie | es 0 | x 5 = | 0 | _ |
| 2. Typha latifolia | 30 | Yes | OBL | Column To | | | 135 | _(B) |
| 3. Mentha arvensis | 15 | Yes | FACW | Prevale | nce Index = | = B/A =1.8 | 30 | - |
| 4. <u>Urtica dioica</u> 5. | 15 | Yes | FAC | Hydronby | tic Vegetati | ion Indicators: | | |
| - | | | | | ance Test is | | | |
| 7. | | | | | ence Index | | | |
| 8. | | | | | | aptations ¹ (Provide | | ting |
| | <u>75</u> = | Total Cover | | | | s or on a separate | | |
| Woody Vine Stratum (Plot size: 30' radius | ■! ⁻ | | | | • | ophytic Vegetation | | • |
| 1 2. | · | | | | | oil and wetland hydurbed or problem | | must |
| 2. | | Total Cover | | | | urbed or problem | alic. | |
| | | | | Hydrophy Vegetation | | | | |
| % Bare Ground in Herb Stratum 25 % | Cover of Biotic | Crust 0 | | Present? | Yes_ | X No | | |
| Remarks: | | | ı | | _ | | | |
| | | | | | | | | |
| | | | | | | | | |

SOIL Sampling Point: SP-201A

| Profile Descri | iption: (Describe t Matrix | to the dept | | ument th | | tor or c | onfirm the absence | of indicators | .) | |
|--------------------------|-------------------------------|-----------------------|----------------------|------------|-------------------|------------------|-------------------------------|-----------------------|-----------------|-------------------------------|
| | Color (moist) | % | Color (moist) | % « | Type ¹ | Loc ² | Texture | | Remarks | |
| (inches) | , , | | Color (Illoist) | 70 | туре | LUC | | · | | |
| 0-10 | 10YR 2/1 | 100 | | · | | | Mucky Loam/Clay | abundant d | organic materia | al and roots |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹ Type: C=Cor | ncentration, D=Depl | etion, RM= | Reduced Matrix | CS=Cove | ered or Co | nated S | and Grains. ² I or | cation: PL=Por | re Lining, M=M | Matrix. |
| | dicators: (Applica | | | | | oatoa o | | ors for Proble | | |
| Histosol (A | | | Sandy Re | | , | | | n Muck (A9) (L | - | |
| Histic Epip | | | Stripped N | | 3) | | | n Muck (A10) (| - | |
| Black Hist | | | X Loamy Mu | • | • | | | -Manganese M | - | LRR D) |
| | Sulfide (A4) | | Loamy GI | - | | | | luced Vertic (F | | , |
| | _ayers (A5) (LRR C | :) | Depleted | • | | | | l Parent Materi | , | |
| | k (A9) (LRR D) | • | Redox Da | rk Surfac | e (F6) | | X Ver | y Shallow Dark | Surface (F22 |) |
| Depleted I | Below Dark Surface | (A11) | Depleted | Dark Sur | face (F7) | | Oth | er (Explain in F | Remarks) | |
| Thick Dark | k Surface (A12) | | Redox De | pression | s (F8) | | | | | |
| Sandy Mu | cky Mineral (S1) | | | | | | | | | |
| Sandy Gle | eyed Matrix (S4) | ³ Indicato | rs of hydrophytic | vegetatio | n and we | tland hy | drology must be pres | sent, unless dis | sturbed or prob | olematic. |
| Restrictive La | ayer (if observed): | | | | | | | | | |
| Type: | bedrock | (| | | | | | | | |
| Depth (inc | ches): | 10 | <u> </u> | | | | Hydric Soil Presei | nt? | Yes X | No |
| Remarks: | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| HYDROLOG | SY | | | | | | | | | |
| | rology Indicators: | | | | | | | | | |
| - | tors (minimum of o | ne is requir | ed: check all that | apply) | | | Seconda | ary Indicators (| minimum of tw | o required) |
| X Surface W | | | Salt Crust | | | | | er Marks (B1) | | . o . o q a o a. _/ |
| X High Wate | ` ' | | Biotic Cru | ` ' | | | | iment Deposits | | ne) |
| X Saturation | , , | | Aquatic In | | tes (B13) | | | Deposits (B3) | | , |
| | rks (B1) (Nonriveri | ne) | Hydrogen | Sulfide (| Odor (C1) |) | Drai | inage Patterns | (B10) | |
| | Deposits (B2) (Non | - | Oxidized I | | | | | -Season Water | | |
| Drift Depo | sits (B3) (Nonriver | ine) | Presence | of Reduc | ced Iron (| C4) | Cra | yfish Burrows (| (C8) | |
| Surface S | oil Cracks (B6) | | Recent Iro | n Reduc | tion in Til | led Soil | s (C6) Satu | uration Visible | on Aerial Imag | ery (C9) |
| Inundation | n Visible on Aerial Ir | nagery (B7 |) Thin Mucl | k Surface | (C7) | | X Sha | llow Aquitard (| (D3) | |
| Water-Sta | ined Leaves (B9) | | Other (Ex | plain in R | Remarks) | | X FAC | C-Neutral Test | (D5) | |
| Field Observa | ations: | | | | | | | | | |
| Surface Water | Present? Yes | s X | No | Depth (i | nches): | 0 | | | | |
| Water Table P | resent? Yes | s X | No | Depth (i | nches): | 0 | | | | |
| Saturation Pre | sent? Ye | s <u>X</u> | No | Depth (i | nches): | 0 | Wetland Hydrolo | ogy Present? | Yes X | No |
| (includes capil | | | | | | | | | | |
| Describe Reco | orded Data (stream | gauge, mo | nitoring well, aeria | al photos | , previous | s inspec | tions), if available: | | | |
| Remarks: | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | nty: Wasco | | Sampling Date: | 6/27/2023 |
|--|-------------------|-----------------|---------------|---|--|-----------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | SP-201B |
| Investigator(s): Kevin Fagan, Katie Pyne | | Section, 7 | Γownship, Ra | ange: S35, T04S, R15E | | |
| Landform (hillside, terrace, etc.): Gully | l | ocal relief (co | oncave, conv | ex, none): concave | Slope | e (%): <u>5</u> |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.17806</u> | 73° | | Long: - | 120.8947872° | Datum: | WGS 84 |
| Soil Map Unit Name: Bakeoven Condon complex, 2 | to 20 percent sl | opes (62881) | | NWI classific | cation: PEM1B | |
| Are climatic / hydrologic conditions on the site typical | for this time of | year? | Yes X | No (If no, exp | ain in Remarks.) | |
| Are Vegetation, Soil, or Hydrology | significantly d | isturbed? A | Are "Normal (| Circumstances" present? | Yes X No | |
| Are Vegetation, Soil, or Hydrology | | | | plain any answers in Rem | | |
| SUMMARY OF FINDINGS – Attach site r | ' | | g point lo | cations, transects, i | mportant featu | res, etc. |
| Hydrophytic Vegetation Present? Yes | No X | Is the | Sampled A | rea | | |
| Hydric Soil Present? Yes | No X | withi | n a Wetland | ? Yes | No <u>X</u> | |
| Wetland Hydrology Present? Yes | No X | | | | | |
| Remarks: The location is an upland plot, just outside of the we | tland represent | ed bv SP-201 | Α. | | | |
| | | | | | | |
| VEGETATION – Use scientific names of | plants. Absolute | Dominant | Indicator | T | | |
| <u>Tree Stratum</u> (Plot size: 30' radius) | % Cover | Species? | Status | Dominance Test work | sheet: | |
| 1 | - === | | | Number of Dominant S Are OBL, FACW, or FA | • | 0 (A) |
| 3. | | | | Total Number of Domir Across All Strata: | nant Species | 3 (B) |
| ·· | | Total Cover | | Percent of Dominant S | | (2) |
| Sapling/Shrub Stratum (Plot size: 15' radius | | | | Are OBL, FACW, or FA | • | 0% (A/B) |
| Artemisia tridentata | 30 | Yes | UPL | | | |
| 2. | | | | Prevalence Index wor | | |
| 3. | | | | Total % Cover of: | · | oly by: |
| 4 | | | | OBL species 0 FACW species 0 | | <u>0</u> 0 |
| J | 30 = | Total Cover | | FAC species 0 | | 0 |
| Herb Stratum (Plot size: 5' radius) | | | | FACU species 35 | | 40 |
| 1. bromus tectorum | 30 | Yes | UPL | UPL species 65 | | 25 |
| 2. poa bulbosa | 30 | Yes | FACU | Column Totals: 10 | 0 (A) 40 | 65 (B) |
| 3. Thinopyrum intermedium | 5 | No | UPL | Prevalence Index = | B/A = 4.65 | |
| 4. Cirsium arvense | 5 | No | FACU | | | |
| 5 | _ | | | Hydrophytic Vegetati | on Indicators: | |
| 6 | | | | Dominance Test is | | |
| 7 | | | | Prevalence Index i | | |
| 8 | | T-1-1-0 | | | ptations ¹ (Provide s s or on a separate s | |
| Woody Vine Stratum (Plot size: 30' radius | | Total Cover | | | phytic Vegetation ¹ (| , |
| ` | | | | | | |
| 1 2. | | | | ¹ Indicators of hydric so be present, unless dist | | |
| | - <u> </u> | Total Cover | | Hydrophytic | • | |
| | | | | Vegetation | | |
| % Bare Ground in Herb Stratum 30 % | 6 Cover of Bioti | c Crust 0 | | Present? Yes_ | No X | <u>-</u> |
| Remarks: | | | | | | |
| | | | | | | |

SOIL Sampling Point: WT-201B

| Profile Desc Depth | ription: (Describe t Matrix | to the dept | | ıment th x Featur | | ator or o | confirm the absence of | of indicators.) |
|-----------------------|---|---------------|-----------------------|-----------------------------|-------------------|------------------|-------------------------------|--|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-6 | 10YR 3/3 | 100 | Color (molot) | ,,, | .) 0 | | Loamy/Clayey | - Tomano |
| | 10111070 | | | | | | <u> </u> | |
| - | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹Type: C=Co | oncentration, D=Depl | letion, RM= | Reduced Matrix, 0 | S=Cove | red or C | oated S | and Grains. ² Loca | tion: PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: (Applica | ble to all L | RRs, unless other | erwise n | oted.) | | Indicator | s for Problematic Hydric Soils ³ : |
| Histosol | ` ' | | Sandy Red | | | | | Muck (A9) (LRR C) |
| | pipedon (A2) | | Stripped M | | | | | Muck (A10) (LRR B) |
| Black His | ` ' | | Loamy Mu | | | | | Manganese Masses (F12) (LRR D) |
| | n Sulfide (A4) | | Loamy Gle | | | | | ced Vertic (F18) |
| | Layers (A5) (LRR C | ;) | Depleted N | , | , | | | Parent Material (F21) |
| | ck (A9) (LRR D) | (4.4.4) | Redox Da | | | | | Shallow Dark Surface (F22) |
| | Below Dark Surface | e (A11) | Depleted [| | |) | Other | (Explain in Remarks) |
| | ark Surface (A12) | | Redox De | oression | s (F8) | | | |
| | lucky Mineral (S1) | 3Indianto | ra of budrophytic v | ogototio | o and wa | stland by | drology must be prese | ant unless disturbed or problematic |
| | leyed Matrix (S4) | | is of flydropflytic v | egetation | i aliu we | lianu ny | raiology must be prese | ent, unless disturbed or problematic. |
| | Layer (if observed): bedrock | | | | | | | |
| Type: Depth (ir | | 6 | _ | | | | Hydric Soil Present | ? Yes No_X |
| | | 0 | | | | | Tiyunc 30ii i reseni | 165 |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | GY | | | | | | | |
| Wetland Hyd | drology Indicators: | | | | | | | |
| | cators (minimum of o | ne is require | | | | | | y Indicators (minimum of two required) |
| | Water (A1) | | Salt Crust | ` ' | | | | r Marks (B1) (Riverine) |
| | ter Table (A2) | | Biotic Crus | | | | | nent Deposits (B2) (Riverine) |
| Saturatio | ` ' | | Aquatic In | | | | | Deposits (B3) (Riverine) |
| | arks (B1) (Nonriveri | - | Hydrogen | | , | , | | age Patterns (B10) |
| | t Deposits (B2) (Nor | • | Oxidized F | | | • | · · · — · | Season Water Table (C2) |
| | oosits (B3) (Nonriver | ine) | Presence Recent Iro | | | ` ' | | ish Burrows (C8) ation Visible on Aerial Imagery (C9) |
| | Soil Cracks (B6) on Visible on Aerial Ir | magery (R7 | | | | illed Soli | ` ' | ow Aquitard (D3) |
| | tained Leaves (B9) | nagery (br | Other (Exp | | | | | Neutral Test (D5) |
| Field Obser | | | | nani iii iv | cmarks) | | | recutal rest (D5) |
| Surface Water | | s | No X | Depth (ii | nches). | | | |
| Water Table | | | | Depth (ii | · - | | | |
| Saturation P | | | | Depth (ii | | | Wetland Hydrolog | gy Present? Yes No X |
| (includes cap | | | | 1 / | / - | | | |
| | corded Data (stream | gauge, moi | nitoring well, aeria | l photos, | previous | s inspec | tions), if available: | |
| | | - | - | | | - | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | nty: Wasco | | Sampling Date: | 6/27/2023 |
|--|------------------|------------------|----------------|---|---------------------------------|--------------|
| Applicant/Owner: Savion | | | - | State: OR | Sampling Point: | SP-203A |
| Investigator(s): Katie Pyne, Kevin Fagan | | Section, 7 | Γownship, Ra | ange: S32 T04S R16E | | |
| Landform (hillside, terrace, etc.): Flat | | Local relief (co | oncave, conv | rex, none): concave | Slop | e (%): 2 |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.1718645</u> | 0 | | Long: | 120.8446017° | Datum: | WGS 84 |
| Soil Map Unit Name: Bakeoven Condon Complex, 2 to | 20 percent s | slopes | | NWI classif | cation: N/A | |
| Are climatic / hydrologic conditions on the site typical for | or this time of | f year? | Yes X | No (If no, exp | olain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologys | significantly of | disturbed? A | Are "Normal (| Circumstances" present? | Yes X No |) |
| Are Vegetation, Soil, or Hydrology X _r | naturally prol | blematic? (| If needed, ex | xplain any answers in Rer | marks.) | |
| SUMMARY OF FINDINGS – Attach site ma | ap showin | ng sampling | g point lo | cations, transects, | important feat | ıres, etc. |
| Hydrophytic Vegetation Present? Yes X No |) | Is the | Sampled A | rea | | |
| | | | n a Wetland | | No | |
| Wetland Hydrology Present? Yes X No | | | | | | |
| Remarks: | | | | | | |
| The plot represents wetland conditions upgradient of h | numan-made | : impoundmen | t that interce | pts an ephemeral drainag | je. | |
| VEGETATION – Use scientific names of p | lante | | | | | |
| VEGETATION 636 361611tille flames of p | Absolute | Dominant | Indicator | 1 | | |
| Tree Stratum (Plot size: 30' radius) | % Cover | Species? | Status | Dominance Test wor | ksheet: | |
| 1 2. | | | | Number of Dominant S Are OBL, FACW, or F | | 2 (A) |
| 3. | | | | Total Number of Domi | - | <u>Z</u> (A) |
| 4. | | | | Across All Strata: | mant opecies | 2 (B) |
| | | =Total Cover | | Percent of Dominant S | Species That | |
| Sapling/Shrub Stratum (Plot size: 15' radius) |) | | | Are OBL, FACW, or F | AC: 10 | 0.0% (A/B) |
| 1. | | | | Prevalence Index wo | wkohoot. | |
| 2. 3. | | - | | Total % Cover of | | iply by: |
| 4. | | | | OBL species 6 | | 60 |
| 5. | | | | FACW species 0 |) x 2 = | 0 |
| | | =Total Cover | | FAC species 1 | | 57 |
| Herb Stratum (Plot size: 5' radius) 1. Persicaria punctata | 40 | Yes | OBL | FACU species UPL species 0 | | 0 |
| 2. Rumex crispus | 10 | No | FAC | Column Totals: 7 | | 117 (B) |
| 3. Hordeum jubatum | 4 | No | FAC | Prevalence Index | | |
| 4. Eleocharis palustris | 20 | Yes | OBL | | | |
| 5. Plantago major | 5 | No | FAC | Hydrophytic Vegetat | | |
| 6. | | | | X Dominance Test in X Prevalence Index | | |
| 7 8. | - | | | | aptations¹ (Provide : | supporting |
| | 79 | =Total Cover | | | s or on a separate | |
| Woody Vine Stratum (Plot size: 30' radius) |) | | | Problematic Hydro | ophytic Vegetation ¹ | (Explain) |
| 1 | | | | ¹ Indicators of hydric so | | |
| 2 | | Total Cavar | | be present, unless dis | turbed or problema | ic. |
| | | =Total Cover | | Hydrophytic Vegetation | | |
| % Bare Ground in Herb Stratum 21 % 0 | Cover of Biot | ic Crust | | Present? Yes | X No | |
| Remarks: | | | | | | |
| | | | | | | |
| | | | | | | |

SOIL Sampling Point: SP-203A

| Profile Desc Depth | ription: (Describe t Matrix | o the dept | | ıment th x Featur | | tor or c | onfirm the absence o | of indicators.) | |
|-----------------------|---|------------------------|------------------------------------|-----------------------------|-------------------|------------------|-------------------------|---|-------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-8 | 10YR 3/2 | 95 | 7.5YR 4/6 | 5 | C | PL/M | Loamy/Clayey | Prominent redox concentration | ns |
| | | | | | | | , | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | — |
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| | | | | | | | | | |
| | | | | | | | | | |
| | oncentration, D=Depl | | | | | oated S | | tion: PL=Pore Lining, M=Matrix. | |
| - | Indicators: (Applical | ole to all L | | | otea.) | | | s for Problematic Hydric Soils ³ : | |
| Histosol | (A1) pipedon (A2) | | Sandy Red Stripped M | | 3) | | | Muck (A9) (LRR C) Muck (A10) (LRR B) | |
| Black Hi | | | Loamy Mu | | | | | Manganese Masses (F12) (LRR D) | |
| | n Sulfide (A4) | | Loamy Gle | - | | | | ced Vertic (F18) | |
| <u> </u> | l Layers (A5) (LRR C |) | Depleted N | | | | | Parent Material (F21) | |
| | ck (A9) (LRR D) | • | X Redox Dar | , | , | | | Shallow Dark Surface (F22) | |
| | Below Dark Surface | (A11) | Depleted D | | ` ' |) | | (Explain in Remarks) | |
| | rk Surface (A12) | ` , | X Redox Dep | | | | | , | |
| Sandy M | lucky Mineral (S1) | | | | | | | | |
| Sandy G | leyed Matrix (S4) | ³ Indicator | s of hydrophytic v | egetatio | n and we | etland hy | drology must be prese | nt, unless disturbed or problematic | ; . |
| Restrictive | _ayer (if observed): | | | | | | | | |
| Type: | bedrock | | | | | | | | |
| Depth (ir | nches): | 6 | | | | | Hydric Soil Present | ? Yes X No_ | |
| | | | | | | | | | |
| HYDROLO | | | | | | | | | |
| - | drology Indicators: | . : | | | | | 0 1 | and a distance of the second | 1 |
| | cators (minimum of or Water (A1) | ie is require | ed; cneck all that a Salt Crust | | | | | <u>y Indicators (minimum of two requi</u> r Marks (B1) (Riverine) | <u>rea)</u> |
| | ter Table (A2) | | Biotic Crus | ` , | | | | nent Deposits (B2) (Riverine) | |
| Saturation | , , | | Aquatic Inv | | tes (B13) | , | | Deposits (B3) (Riverine) | |
| | arks (B1) (Nonriveri i | ne) | Hydrogen | | | | | age Patterns (B10) | |
| | nt Deposits (B2) (Non | - | Oxidized R | | | | | eason Water Table (C2) | |
| Drift Dep | osits (B3) (Nonriveri | ne) | Presence of | of Reduc | ced Iron (| (C4) | Crayf | ish Burrows (C8) | |
| X Surface | Soil Cracks (B6) | | Recent Iron | n Reduc | tion in Ti | lled Soil | s (C6) Satur | ation Visible on Aerial Imagery (C9 |)) |
| | on Visible on Aerial In | nagery (B7) | | | | | | ow Aquitard (D3) | |
| Water-S | tained Leaves (B9) | | Other (Exp | lain in R | temarks) | | X FAC- | Neutral Test (D5) | |
| Field Obser | | | | | | | | | |
| Surface Wat | | | | Depth (i | · - | | | | |
| Water Table | | | | Depth (i | · - | | Motlemalitation | ny Branchia Van V | |
| Saturation P | | · | No <u>X</u> | Depth (i | ncnes): _ | | vvetiana Hydrolog | yy Present? Yes X No _ | |
| (includes cap | corded Data (stream | nalide mor | nitoring well serial | nhotos | nrevious | s ineneo | tions) if available: | | |
| Describe Ke | Corded Data (Stredth | gauge, moi | morning well, aella | PHOIOS, | , previous | з шэрес | aonoj, ii avaliable. | | |
| Remarks: | | | | | | | | | |
| | | | | | | | | ne downstream side by an earthen | |
| | pounds flows that wo rimately 6-feet above | | | am of th | ie iocatio | n. Simila | ai io a stormwater basi | n, there is an overflow pipe with an | 1 |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | Cit | y/Coun | nty: Wasco | | Sampling Date: | 6/27/2023 |
|--|-----------|----------|--------------|--|-----------------------------------|------------|
| Applicant/Owner: Savion | | • | | State: OR | Sampling Point: | WT-203B |
| Investigator(s): Katie Pyne, Kevin Fagan | Sec | tion, To | ownship, Ra | ange: T04S, R15E | | |
| Landform (hillside, terrace, etc.): depressional area | Local re | lief (co | ncave, conv | vex, none): concave | Slop | oe (%):1 |
| Subregion (LRR): <u>LRR B</u> Lat: 45.1718560° | | | Long: - | 120.8445701° | Datum: | WGS 84 |
| Soil Map Unit Name: Bakeoven Condon Complex, 2 to 20 percent | slopes | | | NWI classific | cation: N/A | |
| Are climatic / hydrologic conditions on the site typical for this time o | of year? | ` | Yes X | No (If no, exp | lain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologysignificantly | disturbed | d? Aı | re "Normal (| Circumstances" present? | Yes X No |) |
| Are Vegetation, Soil, or Hydrologynaturally pro | blematic | ? (If | needed, ex | xplain any answers in Ren | narks.) | |
| SUMMARY OF FINDINGS – Attach site map showing | ng sam | pling | point lo | cations, transects, i | mportant featu | ures, etc. |
| Hydrophytic Vegetation Present? Yes No X | | Is the | Sampled A | \rea | | |
| Hydric Soil Present? Yes No X | | | a Wetland | | No X | |
| Wetland Hydrology Present? Yes No X | | | | | | |
| Remarks: | | | OD 0004 | | | |
| The plot represents upland conditions just outside of the wetland r | epresent | ted by s | SP-203A. | | | |
| VEGETATION – Use scientific names of plants. | | | | | | |
| Absolute | Domir | nant | Indicator | | | |
| Tree Stratum (Plot size: 30' radius) % Cover | Speci | es? | Status | Dominance Test work | ksheet: | |
| 1 | | | | Number of Dominant S Are OBL, FACW, or FA | • | 0 (A) |
| 3. | | | | Total Number of Domin | | <u> </u> |
| 4. | | | | Across All Strata: | | 2 (B) |
| | =Total C | cover | | Percent of Dominant S | • | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | | | Are OBL, FACW, or FA | AC: 0. | .0% (A/B) |
| 1 | | | | Prevalence Index wo | rkshoot: | |
| 3. | | | | Total % Cover of: | | ply by: |
| 4. | | | | OBL species 0 | | 0 |
| 5 | | | | FACW species 0 | x 2 = | 0 |
| | =Total C | Cover | | FAC species 0 | | 0 |
| Herb Stratum (Plot size: 5' radius) 1. Sisymbrium altissimum 10 | No |) | FACU | FACU species 10 | | 40 350 |
| 2. Taeniatherum caput-medusae 50 | Ye | | UPL | Column Totals: 80 | | 390 (B) |
| 3. Bromus tectorum 20 | Ye | s | UPL | Prevalence Index = | = B/A = 4.88 | |
| 4 | | | | | | |
| 5 | | | | Hydrophytic Vegetati | | |
| 6 | | | | Dominance Test is Prevalence Index | | |
| 8. | | | | l —— | aptations ¹ (Provide s | supporting |
| 80 | =Total C | cover | | | s or on a separate s | • |
| Woody Vine Stratum (Plot size: 30' radius) | | | | Problematic Hydro | ophytic Vegetation ¹ | (Explain) |
| 1 | | | | ¹ Indicators of hydric so | | |
| | =Total C | Cover | | be present, unless dist | urbed or problemat | IIC. |
| | | | | Hydrophytic Vegetation | | |
| % Bare Ground in Herb Stratum 20 % Cover of Biot | tic Crust | 0 | _ | Present? Yes_ | No X | _ |
| Remarks: | | | | • | | |
| | | | | | | |

SOIL Sampling Point: WT-203B

| | . , | to the depth | | | | itor or c | confirm the absence of | of indicators.) | |
|-------------------|-----------------------------------|------------------------|------------------------------------|---------------|-------------------|------------------|-------------------------------|---|--------------------|
| Depth (inches) | Matrix Color (moist) | <u> </u> | Color (moist) | x Featur % | | Loc ² | Texture | Remarks | |
| (inches) | Color (moist) | | COIOI (ITIOISI) | 70 | Type ¹ | LUC | | Remarks | |
| 0-5 | 10YR 3/3 | 100 | | | | | Loamy/Clayey | | |
| | | | | | | | | - | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 1Type: C-C | oncentration, D=Dep | letion RM- | Reduced Matrix C | S=Cove | red or C | o haten | and Grains ² I occ | ation: PL=Pore Lining, M=M | atrix |
| | ndicators: (Applica | | | | | valeu 3 | | rs for Problematic Hydric S | |
| Histosol | ` | to all Li | Sandy Red | | o.ou.j | | | Muck (A9) (LRR C) | |
| | ipedon (A2) | | Stripped M | , , | 6) | | | Muck (A10) (LRR B) | |
| Black His | | | Loamy Mu | | | | | Manganese Masses (F12) (L | .RR D) |
| | n Sulfide (A4) | | Loamy Gle | - | | | | uced Vertic (F18) | , |
| | Layers (A5) (LRR C | ;) | Depleted N | - | | | | Parent Material (F21) | |
| | ck (A9) (LRR D) | | Redox Dar | , | , | | | Shallow Dark Surface (F22) | |
| Depleted | Below Dark Surface | e (A11) | Depleted [| | | | Othe | r (Explain in Remarks) | |
| Thick Da | rk Surface (A12) | | Redox Dep | oression | s (F8) | | | | |
| Sandy M | ucky Mineral (S1) | | | | | | | | |
| Sandy G | leyed Matrix (S4) | ³ Indicator | s of hydrophytic v | egetatio | n and we | tland hy | drology must be prese | ent, unless disturbed or prob | lematic. |
| Restrictive L | ayer (if observed): | | | | | | | | <u> </u> |
| Type: | bedroc | < | | | | | | | |
| Depth (in | nches): | 5 | _ | | | | Hydric Soil Present | t? Yes | No X |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| | | | | | | | | | |
| - | drology Indicators: | no la ro! | ad about all the | nnlu) | | | 0 | ny Indiantara (minimum of tur | o rocuir1\ |
| - | ators (minimum of o Water (A1) | ne is require | ed; cneck all that a Salt Crust | | | | | ry Indicators (minimum of two | <u>o requirea)</u> |
| | ter Table (A2) | | Biotic Crust | ` ' | | | | er Marks (B1) (Riverine) ment Deposits (B2) (Riverin e | e) |
| Saturatio | | | Aquatic Inv | | es (R12) | | | Deposits (B3) (Riverine) | ~ <i>)</i> |
| | arks (B1) (Nonriveri | ne) | Hydrogen | | , , | | | nage Patterns (B10) | |
| | t Deposits (B2) (Nor | - | Oxidized F | | | | | Season Water Table (C2) | |
| | osits (B3) (Nonriver | • | Presence | | | _ | | fish Burrows (C8) | |
| | Soil Cracks (B6) | -, | Recent Iro | | , | , | | ration Visible on Aerial Image | ery (C9) |
| | on Visible on Aerial I | magery (B7) | | | | | | ow Aquitard (D3) | , |
| | ained Leaves (B9) | . , , | Other (Exp | | | | | Neutral Test (D5) | |
| Field Observ | vations: | | <u></u> | | | | | | |
| Surface Water | er Present? Ye | s | No X | Depth (ii | nches): | | | | |
| Water Table | Present? Ye | s | | Depth (ii | nches): | | | | |
| Saturation Pr | resent? Ye | s | | | nches): | | Wetland Hydrolog | gy Present? Yes | No X |
| (includes cap | | _ | | | | | | | |
| Describe Red | corded Data (stream | gauge, mor | nitoring well, aeria | l photos, | previous | s inspec | tions), if available: | | |
| Remarks: | | | | | | | | | |
| nomana. | | | | | | | | | |
| | | | | | | | | | |
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See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Yellow Rosebush | | City/Cou | nty: Wasco | | Sampling Date: | 6/30/2023 |
|--|---------------------|-------------------|---------------------|--|---|------------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | WT-212A |
| Investigator(s): Katie Pyne and Kevin Fagan | | Section, 7 | Γownship, Ra | ange: S31, T04S, R16E | | |
| Landform (hillside, terrace, etc.): Gully | L | ocal relief (co | oncave, conv | vex, none): concave | Slop | oe (%): <u>5</u> |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.1835657</u> | 0 | | Long: | 120.8587442° | Datum: | WGS 84 |
| Soil Map Unit Name: Bakeoven Condon Complex, 2 to | 20 percent s | lopes | | NWI classif | ication: PEM1C | |
| Are climatic / hydrologic conditions on the site typical for | or this time of | year? | Yes X | No (If no, exp | olain in Remarks.) | |
| Are Vegetation, Soil, or Hydrology | significantly d | isturbed? A | Are "Normal (| Circumstances" present? | Yes X No |) |
| Are Vegetation, Soil, or Hydrology | | | If needed, ex | cplain any answers in Rei | marks.) | |
| SUMMARY OF FINDINGS – Attach site m | | | g point lo | cations, transects, | important feat | ures, etc. |
| Hydrophytic Vegetation Present? Yes X N | 0 | Is the | e Sampled A | rea | | |
| | 0 | withi | n a Wetland | ? Yes X | No | |
| Wetland Hydrology Present? Yes X N | o <u></u> | | | | | |
| Remarks: This location is a plot in a gully-bound wetland, the up by seeps along the gully invert in the upper half of the | | | | | | |
| VEGETATION – Use scientific names of p | | | | | | |
| <u>Tree Stratum</u> (Plot size: 30' radius) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test wor | rksheet: | |
| 1 | 70 0010. | | | Number of Dominant Are OBL, FACW, or F | Species That | 1 (A) |
| 3. | | | | Total Number of Dom | | |
| 4 | | Tatal Cause | | Across All Strata: | | 1 (B) |
| Sapling/Shrub Stratum (Plot size: 15' radius 1. | | Total Cover | | Percent of Dominant S Are OBL, FACW, or F | • | 0.0% (A/B) |
| 2. | | | | Prevalence Index wo | rksheet: | |
| 3 | | | | Total % Cover of | | iply by: |
| 4 | | | | · | | 80 |
| 5 | | Total Cover | | · — | | <u>10</u> 45 |
| Herb Stratum (Plot size: 5' radius) | | - Total Gover | | | x 4 = | 0 |
| 1. Typha latifolia | 75 | Yes | OBL | | x 5 = | 0 |
| 2. Urtica dioica | 15 | No | FAC | Column Totals: 10 | 00 (A) 1 | 135 (B) |
| 3. Juncus balticus | 5 | No | FACW | Prevalence Index | | |
| 4. Mimulus guttatus | 5 | No | OBL | | | |
| 5 | | | | Hydrophytic Vegetat | | |
| 6 | | | | X Dominance Test i | | |
| 7 | | | | X Prevalence Index | | |
| 8 | 400 | Tatal Cause | | | aptations ¹ (Provide : s or on a separate : | |
| Woody Vine Stratum (Plot size: 30' radius | | Total Cover | | | ophytic Vegetation ¹ | , |
| 4 | | | | | | ` ' ' |
| 2. | | | | ¹ Indicators of hydric so be present, unless dis | | |
| | | Total Cover | | Hydrophytic | , | |
| | | | | Vegetation | | |
| % Bare Ground in Herb Stratum 0 % | Cover of Biotic | Crust 0 | _ | Present? Yes | X No | _ |
| Remarks: | | | | | | |
| | | | | | | |

SOIL Sampling Point: WT-212A

| | cription: (Describe | to the depth | | | | tor or c | onfirm the absen | ce of indicators | .) | |
|------------------------|------------------------|----------------|---------------------|-----------|-------------------|------------------|---------------------------|--------------------|-----------------|---------------------------------------|
| Depth | Matrix | | | x Featu | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks | |
| 0-16 | 10YR 3/2 | 95 | 5YR 3/4 | 5 | С | M | Sandy | | loamy sand | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| l | | | | | | | - | _ | | |
| | | | | | | | | | | |
| l | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Dep | letion RM=R | Reduced Matrix (| S=Cove | ered or C | oated Sa | and Grains ² I | ocation: PL=Po | re Linina M=M | atrix |
| | Indicators: (Applica | | | | | outou Ot | | ators for Proble | | |
| Histosol | | ibic to all Li | X Sandy Red | | | | | cm Muck (A9) (L | - | , , , , , , , , , , , , , , , , , , , |
| | oipedon (A2) | | Stripped M | | | | | cm Muck (A10) | - | |
| Black Hi | | | Loamy Mu | , | , | | | on-Manganese N | - | DD D) |
| | , , | | | • | | | | - | | נט אא. |
| | en Sulfide (A4) | •• | Loamy Gle | | | | | educed Vertic (F | | |
| | d Layers (A5) (LRR (| •) | Depleted N | , | , | | | ed Parent Mater | | |
| | ick (A9) (LRR D) | - (0.4.4) | Redox Da | | | | | ery Shallow Dark | | |
| | d Below Dark Surface | e (A11) | Depleted [| | | | | ther (Explain in I | Remarks) | |
| | ark Surface (A12) | | Redox De | oression | S (F8) | | | | | |
| | Mucky Mineral (S1) | 3, | Charles a back | | | On a dilas | dealers and the second | | . (| la asa dia |
| | Gleyed Matrix (S4) | | s or nyaropnytic v | egetatio | n and we | tiand ny | drology must be p | resent, uniess di | sturbed or prob | iematic. |
| | Layer (if observed): | | | | | | | | | |
| Type: | rock | | _ | | | | | _ | | |
| Depth (ii | nches): | 16 | _ | | | | Hydric Soil Pres | sent? | Yes X | No |
| Remarks: | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| HYDROLO |)GY | | | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | | | |
| - | cators (minimum of o | | d; check all that a | apply) | | | Secon | ndary Indicators | minimum of tw | o required) |
| X Surface | Water (A1) | • | Salt Crust | (B11) | | | | Vater Marks (B1) | (Riverine) | |
| | ater Table (A2) | | Biotic Crus | t (B12) | | | | ediment Deposit | - | e) |
| X Saturation | , , | | Aquatic In | | tes (B13) | | | rift Deposits (B3) | | • |
| | larks (B1) (Nonriveri | ine) | X Hydrogen | | ` , | | | rainage Patterns | ` ' | |
| | nt Deposits (B2) (No | • | Oxidized F | | | | | ry-Season Wate | | |
| | oosits (B3) (Nonrive | - | Presence | | | - | | rayfish Burrows | | |
| | Soil Cracks (B6) | -, | Recent Iro | | , | , | | aturation Visible | | erv (C9) |
| | on Visible on Aerial I | magery (B7) | Thin Muck | | | | | hallow Aquitard (| _ | - , (/ |
| | tained Leaves (B9) | -3-7() | Other (Exp | | | | | AC-Neutral Test | | |
| Field Obser | . , | | | | , | | <u> </u> | | (- / | |
| Surface Wat | | es X | No | Depth (i | nches). | 0 | | | | |
| Water Table | | es X | | Depth (i | · - | 0 | | | | |
| Saturation P | | es X | | ' ' | nches): | 0 | Wetland Hydr | ology Present? | Yes X | No |
| (includes car | | ,3 <u>/\</u> | | Deptii (i | | | Wettana Hyan | ology i resent: | 103 <u>X</u> | |
| | corded Data (stream | gauge, mon | itoring well, aeria | l photos | . previous | s inspect | ions), if available: | | | |
| | | | | ۲ | , | | | | | |
| Remarks: | | | <u>-</u> | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Yellow Rosebush | | City/Cou | inty: Wasco | | Sampling Date: | 6/30/2023 |
|--|------------------|-----------------|---------------|--|---------------------------------|------------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | WT-212B |
| Investigator(s): Katie Pyne, Kevin Fagan | | Section, 7 | Γownship, Ra | ange: <u>T04S</u> , R15E | | |
| Landform (hillside, terrace, etc.): Gully | L | ocal relief (co | oncave, conv | vex, none): concave | Slop | oe (%): <u>5</u> |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.1835655</u> | ;° | | Long: | 120.8587335° | Datum: | WGS 84 |
| Soil Map Unit Name: Bakeoven Condon Complex, 2 t | o 20 percent s | lopes | | NWI classifi | cation: None | |
| Are climatic / hydrologic conditions on the site typical t | for this time of | year? | Yes X | No (If no, exp | lain in Remarks.) | |
| Are Vegetation, Soil, or Hydrology | significantly d | isturbed? A | Are "Normal (| Circumstances" present? | Yes X No | |
| Are Vegetation, Soil, or Hydrology | naturally prob | lematic? (| If needed, ex | cplain any answers in Rer | narks.) | |
| SUMMARY OF FINDINGS – Attach site m | ap showin | g samplin | g point lo | cations, transects, | important featı | ures, etc. |
| Hydrophytic Vegetation Present? Yes N | No X | Is the | e Sampled A | ırea | | |
| | No X | withi | n a Wetland | ? Yes | No <u>X</u> | |
| Wetland Hydrology Present? Yes N | No <u>X</u> | | | | | |
| Remarks: The plot represents upland conditions just outside of | the wetland re | procented by | CD 212A | | | |
| The plot represents upland conditions just outside of | the wettand re | presented by | 3F-212A. | | | |
| VEGETATION – Use scientific names of | plants. | | | | | |
| Tree Christian (Diet sine) 201 redice | Absolute | Dominant | Indicator | Daminana Tastuus | leab a a te | |
| <u>Tree Stratum</u> (Plot size: <u>30' radius</u>) 1. Juniperus occidentalis | % Cover 30 | Species? Yes | Status UPL | Dominance Test wor Number of Dominant S | | |
| 2. | | | | Are OBL, FACW, or F. | • | 0 (A) |
| 3. | | | | Total Number of Domi | nant Species | |
| 4 | | | | Across All Strata: | | 5 (B) |
| Sanling/Shrub Stratum (Plot cizo: 15' radius | | Total Cover | | Percent of Dominant S | • | .0% (A/B) |
| Sapling/Shrub Stratum (Plot size: 15' radius 1. Artemisia tridentata | _) 20 | Yes | UPL | Are OBL, FACW, or F. | 4C | .0% (A/B) |
| 2. | | | <u> </u> | Prevalence Index wo | rksheet: | |
| 3. | | | | Total % Cover of | : Multi | ply by: |
| 4 | | | | OBL species 0 | | 0 |
| 5 | | Total Cover | | FACW species 0 | | 0 |
| Herb Stratum (Plot size: 5' radius) | = | = Fotal Cover | | FAC species C | | 80 |
| 1. Bromus tectorum | 20 | Yes | UPL | UPL species 7 | | 350 |
| 2. Cirsium arvense | 10 | Yes | FACU | Column Totals: 9 | O (A) 4 | 130 (B) |
| 3. Poa bulbosa | 10 | Yes | FACU | Prevalence Index | = B/A = <u>4.78</u> | 3 |
| 4 5. | - —— | | | Hydrophytic Vegetat | ian Indiantara | |
| - | | | | Dominance Test is | | |
| 7. | | | | Prevalence Index | | |
| 8. | | | | | aptations ¹ (Provide | |
| | 40 = | Total Cover | | | s or on a separate s | , |
| Woody Vine Stratum (Plot size: 30' radius | _) | | | Problematic Hydro | ophytic Vegetation ¹ | (Explain) |
| 1 | - —— | | | ¹ Indicators of hydric so be present, unless dis | | |
| <u> </u> | · ——. | Total Cover | | Hydrophytic | and or problema | |
| | | | | Vegetation | | |
| % Bare Ground in Herb Stratum 60 % | Cover of Biotic | c Crust 0 | | Present? Yes | No X | |
| Remarks: | | | | | | |
| | | | | | | |

SOIL Sampling Point: WT-212B

| Depth | matrix | to the deptr | | ument tı x Featur | | tor or 0 | confirm the absence of | i muicators.) |
|-------------------------|-----------------------------|-------------------------|---------------------|----------------------|-------------------|------------------|--------------------------------|---|
| (inches) | Color (moist) | % | Color (moist) | % r eatur | Type ¹ | Loc ² | Texture | Remarks |
| 0-10 | 10YR 3/2 | 100 | 20.0. (.110101) | ,,, | .,,,, | | Loamy/Clayey | silt loam |
| 0-10 | 10111 0/2 | 100 | | | | | Loamy/Olayey | on roun |
| | | | | | | | · | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=Dep | etion RM=F | Reduced Matrix (| CS=Cove | ered or C | nated S | Sand Grains ² Locat | ion: PL=Pore Lining, M=Matrix. |
| | Indicators: (Applica | | | | | outou o | | s for Problematic Hydric Soils ³ : |
| Histosol | | | Sandy Re | | | | | Muck (A9) (LRR C) |
| | ipedon (A2) | | Stripped N | | | | | Muck (A10) (LRR B) |
| Black His | | | Loamy Mu | • | , | | | langanese Masses (F12) (LRR D) |
| | n Sulfide (A4) | | Loamy Gl | - | | | | ced Vertic (F18) |
| | Layers (A5) (LRR C | ;) | Depleted I | - | | | | arent Material (F21) |
| | ck (A9) (LRR D) | - | Redox Da | , | , | | | Shallow Dark Surface (F22) |
| | Below Dark Surface | e (A11) | Depleted | Dark Sur | face (F7) | | | (Explain in Remarks) |
| Thick Da | rk Surface (A12) | | Redox De | pression | ıs (F8) | | | |
| Sandy M | lucky Mineral (S1) | | | | | | | |
| Sandy G | leyed Matrix (S4) | ³ Indicators | s of hydrophytic v | egetatio/ | n and we | tland hy | ydrology must be preser | nt, unless disturbed or problematic. |
| Restrictive I | _ayer (if observed): | | | | | | | |
| Type: | rock | | <u></u> | | | | | |
| Depth (ir | nches): | 10 | _ | | | | Hydric Soil Present | ? Yes No_X |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | GY | | | | | | | |
| Wetland Hye | drology Indicators: | | | | | | | |
| Primary India | cators (minimum of o | ne is require | ed; check all that | apply) | | | <u>Secondary</u> | / Indicators (minimum of two required) |
| Surface | Water (A1) | | Salt Crust | (B11) | | | Water | Marks (B1) (Riverine) |
| <u> </u> | ter Table (A2) | | Biotic Cru | st (B12) | | | Sedim | ent Deposits (B2) (Riverine) |
| Saturation | on (A3) | | Aquatic In | vertebra | tes (B13) | | Drift D | eposits (B3) (Riverine) |
| Water M | arks (B1) (Nonriveri | ne) | Hydrogen | | | | | age Patterns (B10) |
| | t Deposits (B2) (Nor | - | Oxidized F | • | | - | · · · — · | eason Water Table (C2) |
| | oosits (B3) (Nonriver | ine) | Presence | | , | , | | sh Burrows (C8) |
| | Soil Cracks (B6) | -> | Recent Iro | | | lled Soil | | ation Visible on Aerial Imagery (C9) |
| | on Visible on Aerial Ir | magery (B7) | | | | | | w Aquitard (D3) |
| | tained Leaves (B9) | | Other (Ex | olain in F | Remarks) | | FAC-N | Neutral Test (D5) |
| Field Obser | | | | | | | | |
| Surface Water | | s | No X | | inches): | | | |
| Water Table | | s | No X | | inches): | | Motlem delication | Dracent2 Vec |
| Saturation P | | s | No X | Depth (i | ncnes): | | wetiand Hydrolog | y Present? Yes No X |
| (includes cap | | 001100 mc= | itoring wall so | l nhotoc | provious | inono | tions) if available: | |
| Describe Ke | corded Data (stream | yauye, mon | inoning well, aefla | ıı priotos | , previous | sinspec | Juons), ii avaliable: | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Yellow Rosebush | | City/Cour | nty: Wasco | | Sampling Date: | 6/30/2023 |
|---|---------------------|----------------------|---------------------|---|---|-----------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | WT-212C |
| Investigator(s): Katie Pyne and Kevin Fagan | | Section, T | ownship, Ra | inge: S31 T04S R16E | | |
| Landform (hillside, terrace, etc.): Gully | L | ocal relief (co | ncave, conv | ex, none): concave | Slop | e (%): <u>5</u> |
| Subregion (LRR): LRR B Lat: 45.1830409° | | | Long: <u>-</u> 1 | 120.8586609° | Datum: | WGS 84 |
| Soil Map Unit Name: Bakeoven Condon Complex, 2 to 2 | 0 percent sl | opes | | NWI classifi | cation: PEM1C | |
| Are climatic / hydrologic conditions on the site typical for | this time of | year? | Yes X | No (If no, exp | lain in Remarks.) | |
| Are Vegetation X , Soil X , or Hydrology signals | nificantly di | sturbed? A | re "Normal C | Dircumstances" present? | Yes X No | |
| Are Vegetation, Soil, or Hydrologyna | turally probl | ematic? (I | f needed, ex | plain any answers in Rer | narks.) | |
| SUMMARY OF FINDINGS – Attach site map | showing | g sampling | g point lo | cations, transects, | important featu | ures, etc. |
| Hydrophytic Vegetation Present? Yes X No | | Is the | Sampled A | rea | | |
| | | | n a Wetland | | No | |
| Wetland Hydrology Present? Yes X No | | | | | | |
| Remarks: The plot represents a location in the same wetland repre | esented by S | SP-212A in th | e portion of t | the wetland that was hea | vily disturbed by ca | ttle. |
| Vegetation and soils are distrubed however the area is a | a wetland th | at would likely | y be recoloni | zed by hydrophytes with | cattle exclusion. | |
| VEGETATION – Use scientific names of pla | | | | | | |
| | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test wor | kshoot: | |
| 1. | 70 OOVC1 | Ореспез | Otatus | Number of Dominant S | | |
| 2. | | | | Are OBL, FACW, or F | • | 0 (A) |
| 3 | | | | Total Number of Domi | nant Species | |
| 4 | | Total Cover | | Across All Strata: | . <u>.</u> _ | 2 (B) |
| Sapling/Shrub Stratum (Plot size: 15' radius) | = | Total Cover | | Percent of Dominant S Are OBL, FACW, or FA | • | .0% (A/B) |
| 1 | | | | , | | (442) |
| 2. | | | | Prevalence Index wo | rksheet: | |
| 3 | | | | Total % Cover of | | ply by: |
| 4 | | | | OBL species 5 FACW species 0 | | <u>5</u> 0 |
| J | | Total Cover | | FAC species 0 | | 0 |
| Herb Stratum (Plot size: 5' radius) | - | | | FACU species 10 | | 40 |
| 1. Matricaria discoidea | 10 | Yes | FACU | UPL species 20 |) x 5 = 1 | 00 |
| 2. Veronica anagallis-aquatica | 5 | No No | OBL | Column Totals: 3 | `` | (B) |
| Acmispon americanus 4. | 20 | Yes | UPL | Prevalence Index : | = B/A = <u>4.14</u> | · |
| 5. | | | | Hydrophytic Vegetat | ion Indicators: | |
| 6. | | | | Dominance Test is | | |
| 7 | | | | Prevalence Index | | |
| 8 | 25 | Tatal Cause | | | aptations ¹ (Provide : s or on a separate s | |
| Woody Vine Stratum (Plot size: 30' radius) | 35 = | Total Cover | | X Problematic Hydro | | |
| 1 | | | | ¹ Indicators of hydric so | | |
| 2. | | | | be present, unless dis | • | • • • |
| - | = | Total Cover | | Hydrophytic | | |
| 9/ Para Cround in Harb Stratum 65 9/ Co | vor of Diotic | Crust 0 | | Vegetation Present? Yes | Y No | |
| | ver of Biotic | Crust 0 | _ | Present? Yes | <u> </u> | = |
| Remarks: Wetland vegetaion was heavily trampled/destroyed by c | attle in the v | vicinity of this | plot resulting | g in far less cover than if | cattle were not acce | essing the |
| area. | | ., | , | , | | . 3 |

SOIL Sampling Point: WT-212C

| Profile Desc Depth | ription: (Describe to Matrix | o the depth | | <mark>ıment th</mark> x Featur | | tor or c | onfirm the absence o | f indicators.) |
|-------------------------|---------------------------------|-------------------------|---|-----------------------------------|-------------------|------------------|--------------------------------|--|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-16 | 10YR 3/2 | 100 | (, , , | | | | Loamy/Clayey | sandy loam |
| 0 10 | | | | | | | <u> </u> | canay roam |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | _ | | | | | |
| ¹ Type: C=Co | oncentration, D=Deple | etion, RM=R | Reduced Matrix, C | S=Cove | ered or C | oated Sa | and Grains. ² Locat | tion: PL=Pore Lining, M=Matrix. |
| | ndicators: (Applical | | | | | | | s for Problematic Hydric Soils ³ : |
| Histosol | | | Sandy Red | | , | | | Muck (A9) (LRR C) |
| Histic Ep | ipedon (A2) | | Stripped M | , , | 6) | | | Muck (A10) (LRR B) |
| Black His | | | Loamy Mu | | | | | langanese Masses (F12) (LRR D) |
| X Hydrogei | n Sulfide (A4) | | Loamy Gle | yed Mat | rix (F2) | | | ced Vertic (F18) |
| | Layers (A5) (LRR C) |) | Depleted N | - | | | Red P | arent Material (F21) |
| 1 cm Mu | ck (A9) (LRR D) | | Redox Dar | k Surfac | e (F6) | | Very S | Shallow Dark Surface (F22) |
| Depleted | Below Dark Surface | (A11) | Depleted D | ark Sur | face (F7) | | Other | (Explain in Remarks) |
| Thick Da | rk Surface (A12) | | Redox Dep | ression | s (F8) | | <u>—</u> | |
| Sandy M | ucky Mineral (S1) | | | | | | | |
| Sandy G | leyed Matrix (S4) | ³ Indicators | of hydrophytic v | egetatio | n and we | tland hy | drology must be preser | nt, unless disturbed or problematic. |
| Restrictive L | ayer (if observed): | | | | | | | |
| Type: | rock | | _ | | | | | |
| Depth (in | ches): | 16 | _ | | | | Hydric Soil Present | ? Yes <u>X</u> No |
| sulphide odo | r was observed as the | - | | / invert r | esuiting | in aimcu | ity in meeting nydric so | il indicators although hydrogen |
| HYDROLO | | | | | | | | |
| - | Irology Indicators: | . :: | d. abaal. all that a | | | | 0 | a la diseate de Carinina de Ca |
| X Surface \ | ators (minimum of or | ie is require | <u>u, crieck all that a</u> Salt Crust | | | | • | / Indicators (minimum of two required) Marks (B1) (Riverine) |
| | ter Table (A2) | | Biotic Crus | ` , | | | | nent Deposits (B2) (Riverine) |
| X Saturatio | | | Aquatic Inv | , , | as (R13) | | | Deposits (B3) (Riverine) |
| | arks (B1) (Nonriverir | ne) | X Hydrogen | | | | | age Patterns (B10) |
| | t Deposits (B2) (Non | • | Oxidized R | | | | | eason Water Table (C2) |
| | osits (B3) (Nonriveri | • | Presence of | | | - | | sh Burrows (C8) |
| | Soil Cracks (B6) | , | Recent Iro | n Reduc | tion in Ti | lled Soils | | ation Visible on Aerial Imagery (C9) |
| | on Visible on Aerial Im | nagery (B7) | Thin Muck | | | | · · — | ow Aquitard (D3) |
| | ained Leaves (B9) | | Other (Exp | | | | FAC-N | Neutral Test (D5) |
| Field Observ | rations: | | | | | | | |
| Surface Water | er Present? Yes | s X | No | Depth (ii | nches): | 0 | | |
| Water Table | Present? Yes | S X | No | Depth (ii | nches): | 0 | | |
| Saturation Pr | esent? Yes | S X | No | Depth (ii | nches): | 0 | Wetland Hydrolog | y Present? Yes X No |
| (includes cap | illary fringe) | | | | | | | |
| Describe Red | corded Data (stream | gauge, mon | itoring well, aerial | l photos, | previous | s inspect | ions), if available: | |
| Remarks: | | | | | | | | |
| | had several areas wit | h wetness e | emanating from th | ne break | in slope | of the hi | llside and gully invert. | although these areas were not |
| | | | - | | | | | e trough just below it but upgradient |
| and east of the | ne wetland, this troug | h overflowe | d back to the wet | land. | | | | |

ENG FORM 6116-1, JUL 2018 Arid West – Version 2.0

See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

| Project/Site: Yellow Rosebush | | City/Cou | ınty: Wasco | | Sampling Date: | 6/30/2023 |
|--|---------------------|-------------------|---------------------|---|---|------------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | WT-212D |
| Investigator(s): Katie Pyne and Kevin Fagan | | Section, | Township, Ra | ange: S31, T04S, R16E | | |
| Landform (hillside, terrace, etc.): Gully | | Local relief (co | oncave, conv | ex, none): concave | Slo | pe (%): <u>5</u> |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.183033</u> | 5° | | Long: - | 120.8586300° | Datum: | WGS 84 |
| Soil Map Unit Name: Bakeoven Condon Complex, 2 to | o 20 percent s | slopes | | NWI classific | cation: N/A | |
| Are climatic / hydrologic conditions on the site typical f | or this time of | f year? | Yes X | No (If no, exp | lain in Remarks.) | |
| Are Vegetation, Soil, or Hydrology | significantly of | disturbed? A | Are "Normal (| Circumstances" present? | Yes X N | No |
| Are Vegetation, Soil, or Hydrology | naturally prol | blematic? (| If needed, ex | plain any answers in Ren | narks.) | |
| SUMMARY OF FINDINGS – Attach site m | ap showin | ıg samplin | g point lo | cations, transects, i | important feat | tures, etc. |
| Hydrophytic Vegetation Present? Yes N | lo X | Is the | e Sampled A | rea | | |
| | lo X | | n a Wetland | | No_X | |
| Wetland Hydrology Present? Yes N | lo X | | | | | |
| Remarks: This location is an upland plot just outside of the cattl | e damaged w | etland extent | that is repres | ented by SP-212C | | |
| This location is an upland plot just outside of the cattle | c damaged w | Cliana Catorit | triat is repres | cined by or 2120. | | |
| VEGETATION – Use scientific names of p | | | | | | |
| <u>Tree Stratum</u> (Plot size: 30' radius) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test wor | kshoot: | |
| 1. Juniperus occidentalis | 10 | Yes | UPL | Number of Dominant S | | |
| 2. | | | | Are OBL, FACW, or FA | • | 0 (A) |
| 3. 4. | | | | Total Number of Domin | nant Species | 4 (B) |
| ··· | 10 | =Total Cover | | Percent of Dominant S | Species That | (5) |
| Sapling/Shrub Stratum (Plot size: 15' radius | | | | Are OBL, FACW, or FA | • | 0.0% (A/B) |
| Artemisia tridentata | 30 | Yes | UPL | | | |
| 2. Ericameria nauseosa | 10 | Yes | UPL | Prevalence Index wo | | |
| 3. | | | | Total % Cover of: | | Itiply by: |
| 4 | | | | OBL species 0 FACW species 0 | | 0 |
| · | 40 | =Total Cover | | FAC species 0 | | 0 |
| Herb Stratum (Plot size: 5' radius) | | | | FACU species 0 | | 0 |
| 1. Bromus tectorum | 50 | Yes | UPL | UPL species 10 | 0 x 5 = | 500 |
| 2. | | | | Column Totals: 10 | 0 (A) | 500 (B) |
| 3. | | | | Prevalence Index = | = B/A = 5.0 | 0 |
| 4 | | | | | | |
| 5 | | | | Hydrophytic Vegetati | on Indicators: | |
| 6 | | | | Dominance Test is | | |
| 7 | | | | Prevalence Index | | |
| 8 | | | | Morphological Ada | aptations¹ (Provide s or on a separate | |
| We shall be Obstant | | =Total Cover | | | • | • |
| Woody Vine Stratum (Plot size: 30' radius | • | | | Problematic Hydro | . , | ` ' ' |
| 1 2. | | | | ¹ Indicators of hydric so be present, unless dist | | |
| | | =Total Cover | | Hydrophytic | • | |
| | | | | Vegetation | | |
| % Bare Ground in Herb Stratum 50 % | Cover of Biot | ic Crust 0 | | Present? Yes_ | No_X | · |
| Remarks: | | | | | | |
| | | | | | | |

SOIL Sampling Point: WT-212D

| | • • | to the depti | | | | tor or c | confirm the absence of | of indicators.) |
|-------------------------------|-------------------------|------------------------|----------------------|------------------------|-------------------------|------------------|-------------------------------|---|
| Depth (inches) | Matrix Color (moist) | <u></u> % | Color (moist) | x Featur % | es Type ¹ | Loc ² | Texture | Remarks |
| (inches) | | | COIOI (ITIOISI) | 70 | туре | LUC | | |
| 0-10 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | silt loam |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | <u></u> | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 1Type: C-C | oncentration, D=Dep | letion RM- | Reduced Matrix C | S=Covo | red or C | o haten | and Grains ² I occ | tion: PL=Pore Lining, M=Matrix. |
| | ndicators: (Applica | | | | | oaleu 3 | | s for Problematic Hydric Soils ³ : |
| Histosol | ` | to all L | Sandy Red | | o.cu.j | | | Muck (A9) (LRR C) |
| | ipedon (A2) | | Stripped M | . , | ;) | | | Muck (A10) (LRR B) |
| Black His | | | Loamy Mu | , | , | | | Manganese Masses (F12) (LRR D) |
| | n Sulfide (A4) | | Loamy Gle | - | | | | ced Vertic (F18) |
| | Layers (A5) (LRR C | ;) | Depleted N | - | | | | Parent Material (F21) |
| | ck (A9) (LRR D) | - | Redox Dar | , | , | | | Shallow Dark Surface (F22) |
| Depleted | Below Dark Surface | e (A11) | Depleted [| | | | | (Explain in Remarks) |
| Thick Da | rk Surface (A12) | | Redox Dep | ressions | s (F8) | | | |
| Sandy M | ucky Mineral (S1) | | | | | | | |
| Sandy G | leyed Matrix (S4) | ³ Indicator | s of hydrophytic v | egetatio | n and we | tland hy | drology must be prese | ent, unless disturbed or problematic. |
| Restrictive I | ayer (if observed): | | | | | | | |
| Type: | rock | | | | | | | |
| Depth (ir | nches): | 10 | _ | | | | Hydric Soil Present | ? Yes No X |
| | | | | | | | | |
| HYDROLO | GY | | | | | | | |
| Wetland Hyd | drology Indicators: | | | | | | | |
| Primary India | ators (minimum of o | ne is require | ed; check all that a | ipply) | | | <u>Secondar</u> | y Indicators (minimum of two required) |
| | Water (A1) | | Salt Crust | ` ' | | | | r Marks (B1) (Riverine) |
| | ter Table (A2) | | Biotic Crus | | | | | nent Deposits (B2) (Riverine) |
| Saturatio | ` ' | | Aquatic Inv | | , , | | | Deposits (B3) (Riverine) |
| | arks (B1) (Nonriveri | - | Hydrogen | | | | | age Patterns (B10) |
| | t Deposits (B2) (Nor | • | Oxidized R | | | _ | | Season Water Table (C2) |
| | osits (B3) (Nonriver | ine) | Presence of | | , | , | | ish Burrows (C8) |
| | Soil Cracks (B6) | magary (D7) | Recent Iro | | | iiea Soil | | ation Visible on Aerial Imagery (C9) |
| | on Visible on Aerial II | nagery (B7) | | | | | | ow Aquitard (D3) Neutral Test (D5) |
| | ained Leaves (B9) | | Other (Exp | nanı ili K | emarks) | | FAC- | rveutiai Test (D3) |
| Field Observ Surface Water | | .e | No. Y | Danth /:- | nchoc). | | | |
| Water Table | | s | | Depth (ii Depth (ii | nches): | | | |
| Saturation P | | | | Depth (ii Depth (ii | | | Wetland Hydrolog | gy Present? Yes No X |
| (includes cap | | | <u> </u> | Popui (II | | | Tronana riyarolog | ,, |
| | corded Data (stream | gauge, mor | nitoring well, aeria | photos | previous | s inspec | tions), if available: | |
| | 2010 (01104111 | J | | r, | , 5.7000 | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | nty: Wasco | | Sampling Date: | 6/27/2023 |
|--|-----------------|------------------|---------------|---|---|---------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | SP-302 |
| Investigator(s): Jess Taylor, Summer Roberts | | Section, T | ownship, Rar | nge: T04S, R15E | | |
| Landform (hillside, terrace, etc.): Plateau | l | Local relief (co | ncave, conve | x, none): Concave | Slo | pe (%): 0 |
| Subregion (LRR): LRR B Lat: 45.157797° | | | Long:1 | 20.843690° | Datum: | WGS 84 |
| Soil Map Unit Name: Lickskillet extremely stony loam, 4 | 10 to 70 perc | ent slopes (62 | | NWI classi | fication: None. | |
| Are climatic / hydrologic conditions on the site typical fo | r this time of | year? | Yes X | No (If no, ex | plain in Remarks.) | |
| Are Vegetation , Soil X , or Hydrology s | significantly d | listurbed? A | re "Normal Ci | rcumstances" present? | Yes X N | 10 |
| Are Vegetation, Soil, or Hydrologyr | naturally prob | olematic? (I | f needed, exp | olain any answers in Re | marks.) | |
| SUMMARY OF FINDINGS – Attach site ma | | | g point loc | ations, transects, | important feat | tures, etc. |
| Hydrophytic Vegetation Present? Yes No | . X | Is the | Sampled Ar | ea | | |
| | $\frac{X}{X}$ | | n a Wetland? | | No X | |
| | X | | | | <u> </u> | |
| Remarks: | | • | | | | |
| The plot represents upland conditions in an excavated that is several feet below the modified grade. A convo | | | | | a shallow groundw | ater source |
| VEGETATION – Use scientific names of p | lants. | | | | | |
| T 01 1 (DL 1 1 20) | Absolute | Dominant | Indicator | | | |
| <u>Tree Stratum</u> (Plot size: <u>30' radius</u>) 1. | % Cover | Species? | Status | Dominance Test wo | | |
| 2. | | | | Number of Dominant Are OBL, FACW, or F | • | 1 (A) |
| 3. | | | | Total Number of Dom | | ` |
| 4. | | | | Across All Strata: | | 2 (B) |
| | | =Total Cover | | Percent of Dominant | | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | | | Are OBL, FACW, or F | FAC:5 | 60.0% (A/B) |
| 1 2. | | | | Prevalence Index w | orkshoot: | |
| 3. | | | | Total % Cover of | | Itiply by: |
| 4. | | | | | 25 x 1 = | 25 |
| 5. | | | | FACW species | 0 x 2 = | 0 |
| | = | =Total Cover | | | 0 x 3 = | 0 |
| Herb Stratum (Plot size: 5' radius) | 05 | V | ODI | · — | | 144 |
| Typha latifolia Cirsium arvense | <u>25</u> 28 | Yes Yes | OBL FACU | · - | $\frac{8}{69}$ $\times 5 = $ | 40 209 (B) |
| 3. Medicago sativa | 8 | No | UPL | Prevalence Index | | |
| 4. Achillea millefolium | 8 | No | FACU | | | |
| 5. | | | | Hydrophytic Vegeta | tion Indicators: | |
| 6 | | | | Dominance Test | | |
| 7 | | | | Prevalence Index | | |
| 8 | | Tatal Cause | | | daptations ¹ (Provide ks or on a separate | |
| Woody Vine Stratum (Plot size: 30' radius) | | =Total Cover | | | rophytic Vegetation | |
| 1 | | | | ¹ Indicators of hydric s | | |
| 2. | | | | be present, unless dis | | |
| | = | =Total Cover | | Hydrophytic | | |
| | | | | Vegetation | | |
| | over of Biotic | c Crust 0 | _ | Present? Yes | No_X | _ |
| Remarks: | | | | | | |
| | | | | | | |

SOIL Sampling Point: SP-302

| Profile Desc Depth | ription: (Describe to Matrix | o the depth | | ument the x Featur | | tor or c | onfirm the absence o | of indicators.) | |
|-----------------------|---|-------------------------|---------------------|-----------------------|-------------------|------------------|-------------------------------|--------------------------------|--------------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remar | ks |
| 0-16 | 10YR 3/2 | 100 | , | | | | Loamy/Clayey | Silt Loa | |
| | | | | | | | , and the second | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹Type: C=Co | oncentration, D=Deple | etion, RM=F | Reduced Matrix, (| CS=Cove | red or C | oated Sa | and Grains. ² Loca | tion: PL=Pore Lining, | M=Matrix. |
| | ndicators: (Applical | | | | | | | s for Problematic Hy | |
| Histosol | | | Sandy Re | | , | | | Muck (A9) (LRR C) | |
| Histic Ep | ipedon (A2) | | Stripped N | , , | 6) | | | Muck (A10) (LRR B) | |
| Black His | | | Loamy Mu | | | | | /langanese Masses (F | 12) (LRR D) |
| Hydroge | n Sulfide (A4) | | Loamy Gle | eyed Mat | rix (F2) | | | ced Vertic (F18) | , , |
| | Layers (A5) (LRR C) |) | Depleted I | - | | | Red F | Parent Material (F21) | |
| 1 cm Mu | ck (A9) (LRR D) | | Redox Da | rk Surfac | e (F6) | | Very S | Shallow Dark Surface | (F22) |
| Depleted | Below Dark Surface | (A11) | Depleted I | Dark Sur | ace (F7) | | Other | (Explain in Remarks) | |
| Thick Da | rk Surface (A12) | | Redox De | pression | s (F8) | | | | |
| Sandy M | ucky Mineral (S1) | | | | | | | | |
| Sandy G | leyed Matrix (S4) | ³ Indicators | s of hydrophytic v | egetatio | n and we | tland hy | drology must be prese | nt, unless disturbed or | problematic. |
| Restrictive I | ayer (if observed): | | | | | | | | |
| Type: | | | <u> </u> | | | | | | |
| Depth (ir | iches): | | _ | | | | Hydric Soil Present | ? Yes | NoX |
| HYDROLO | GV. | | | | | | | | |
| | | | | | | | | | |
| - | drology Indicators: ators (minimum of or | a is require | d: check all that | annly) | | | Socondar | y Indicators (minimum | of two required) |
| - | Water (A1) | ie is require | Salt Crust | | | | | r Marks (B1) (Riverin e | |
| | ter Table (A2) | | Biotic Crus | , | | | | nent Deposits (B2) (Ri | • |
| Saturation | , , | | Aquatic In | | es (B13) | | | Deposits (B3) (Riverin | |
| | arks (B1) (Nonriverir | ne) | Hydrogen | | | | | age Patterns (B10) | -, |
| | t Deposits (B2) (Non | - | Oxidized F | | | | | eason Water Table (C | 2) |
| | osits (B3) (Nonriveri | - | Presence | of Reduc | ed Iron (| C4) | | ish Burrows (C8) | , |
| Surface | Soil Cracks (B6) | | Recent Iro | n Reduc | tion in Ti | lled Soils | s (C6) Satura | ation Visible on Aerial | Imagery (C9) |
| Inundation | on Visible on Aerial Im | nagery (B7) | Thin Muck | Surface | (C7) | | Shallo | ow Aquitard (D3) | |
| Water-St | ained Leaves (B9) | | Other (Exp | olain in R | emarks) | | FAC-I | Neutral Test (D5) | |
| Field Observ | /ations: | | | | | | | | |
| Surface Water | er Present? Yes | s | No X | Depth (in | nches): | | | | |
| Water Table | Present? Yes | <u> </u> | No X | Depth (ii | nches): | | | | |
| Saturation Pr | resent? Yes | <u> </u> | No X | Depth (ii | nches): | | Wetland Hydrolog | y Present? Yes | No X |
| (includes cap | | | | | | | | | |
| Describe Red | corded Data (stream | gauge, mon | itoring well, aeria | ıl photos, | previous | s inspect | tions), if available: | | |
| Remarks: | | | | | | | | | |
| | as excavated holding | ponds with | in an ephemeral | drainage | . No star | nding wa | ater currently or other s | igns of hydrology. | |
| | | | | | | | | | |
| | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Count | ty: Wasco | | Saı | mpling Date: | 6/27/2023 |
|--|-------------------|---------------|------------------|------------------------------|---------------------------------|---------------------------|----------------|
| Applicant/Owner: Savion | | | | State: 0 | OR Sar | npling Point: | SP-315 |
| Investigator(s): Jess Taylor, Summer Roberts | | Section, To | wnship, Ran | ge: T04S, R15 | E | | |
| Landform (hillside, terrace, etc.): Plateau | Local | l relief (con | cave, conve | x, none): Con | cave | Slop | e (%): 0 |
| Subregion (LRR): LRR B Lat: 45.157797° | | | Long: <u>-12</u> | 20.843690° | | Datum: | WGS 84 |
| Soil Map Unit Name: Condon-Bakeoven complex, 2 to 20 | percent slopes | s (62884) | | NWI | classification | n: None. | |
| Are climatic / hydrologic conditions on the site typical for t | his time of year | ? Y | es X | No (If | no, explain ir | n Remarks.) | |
| Are Vegetation, Soil X _, or Hydrology X _sig | nificantly distur | bed? Are | e "Normal Ci | rcumstances" pr | esent? Ye | es X No | |
| Are Vegetation, SoilX_, or Hydrologynat | urally problema | atic? (If | needed, exp | lain any answers | s in Remarks | .) | |
| SUMMARY OF FINDINGS – Attach site map | showing sa | ampling | point loca | ations, trans | ects, impo | ortant feati | ures, etc. |
| Hydrophytic Vegetation Present? Yes X No | | Is the S | Sampled Are | ea | | | |
| Hydric Soil Present? Yes X No | | | a Wetland? | | <u> </u> | lo | |
| Wetland Hydrology Present? Yes X No | | | | | | | |
| Remarks: | | | | | | | |
| Excavated livestock pond, vegetation starting to grow bu | t the pond has | dried up. P | acific tree fro | ogs were found v | within crackin | ıg soils. | |
| VEGETATION – Use scientific names of pla | nte | | | | | | |
| | | minant | Indicator | | | | |
| ` | % Cover Sp | ecies? | Status | Dominance Te | | | |
| 1 | | | | Number of Dor | | es That | 1 (1) |
| 2. 3. | | | | Are OBL, FAC | | | 1 (A) |
| 4. | | | | Across All Stra | | Species | 1 (B) |
| | =Tota | al Cover | | Percent of Don | ninant Specie | es That | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | | | Are OBL, FAC | W, or FAC: | 10 | 0.0% (A/B) |
| 1 | | | | Dunivalance In | | | |
| 2. 3. | | | | Prevalence In Total % C | | | ply by: |
| 4. | | | | OBL species | 95 | | 95 |
| 5. | | | | FACW species | 0 | x 2 = | 0 |
| - | =Tota | al Cover | | FAC species | 8 | | 24 |
| Herb Stratum (Plot size: 5' radius) 1. Eleocharis palustris | 95 | Yes | OBL | FACU species UPL species | 5 | x 4 = | <u>20</u> 0 |
| Lieochans pausurs Polygonum aviculare | 8 | No | FAC | Column Totals | | - | 39 (B) |
| 3. Sisymbrium altissimum | 5 | No | FACU | | $\overline{\text{Index}} = B/A$ | | |
| 4. | | | | | | | |
| 5 | | | | Hydrophytic V | _ | | |
| 6 | | | | X Dominance | | | |
| 8. | | - | | | | ons¹ (Provide : | supportina |
| | 108 =Tota | al Cover | | | | n a separate s | |
| Woody Vine Stratum (Plot size: 30' radius) | | | | Problemati | c Hydrophyti | c Vegetation ¹ | (Explain) |
| 1 | | | | ¹ Indicators of h | | | |
| 2. | | al Cover | | be present, unl | ess disturbed | a or problema | IIC. |
| - | | | | Hydrophytic Vegetation | | | |
| % Bare Ground in Herb Stratum 0 % Cov | ver of Biotic Cru | ust 0 | _ | Present? | Yes X | No | _ |
| Remarks: | | | <u> </u> | | | | |
| | | | | | | | |

SOIL Sampling Point: SP-315

| Depth (inches) C | | | Reuc | x Featur | es | | | |
|---|--|--|---|---|--|-------------------------------------|---|--|
| 0-16 | color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| | 10YR 2/2 | 70 | 10YR 4/6 | 30 | C | M | Loamy/Clayey | Clay Loam |
| | | | | | | | Loanly/olayoy | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Concent | | | | | | oated S | | ation: PL=Pore Lining, M=Matrix. |
| Hydric Soil Indica | itors: (Applica | ble to all Li | | | oted.) | | | rs for Problematic Hydric Soils ³ : |
| Histosol (A1) | | | Sandy Re | , , | | | | Muck (A9) (LRR C) |
| Histic Epipedo | n (A2) | | Stripped N | | | | | Muck (A10) (LRR B) |
| Black Histic (A | , | | Loamy Mu | • | , , | | | Manganese Masses (F12) (LRR D) |
| Hydrogen Sulf | | | Loamy Gle | - | | | | uced Vertic (F18) |
| | rs (A5) (LRR C | ;) | Depleted I | ` | , | | | Parent Material (F21) |
| 1 cm Muck (A9 | | | X Redox Da | | . , | | | Shallow Dark Surface (F22) |
| | w Dark Surface | e (A11) | Depleted I | | |) | Othe | r (Explain in Remarks) |
| Thick Dark Su | ` , | | X Redox De | pression | s (F8) | | | |
| Sandy Mucky | | 3, ,, | | | | | | |
| Sandy Gleyed | | | s of nyaropnytic v | egetatio | n and we | etiand ny | drology must be pres | ent, unless disturbed or problematic. |
| Restrictive Layer Type: | (if observed): | | | | | | | |
| Depth (inches) | · | | _ | | | | Hydric Soil Presen | t? Yes X No |
| Remarks: | | | _ | | | | nyunc 3011 Fresen | t? Yes <u>X</u> No |
| Excavated livestoc | k pond with mi | xed soils. Co | ncentrated redo | v faatura | io o olov | | | |
| | | | Shochilated rede | x leature | is a clay | inclusio | n. May have been fro | m a pond liner. |
| HYDROLOGY | | | STOCKHICAGO TOGO | reature | is a clay | inclusio | n. May have been fro | m a pond liner. |
| HYDROLOGY Wetland Hydrolog | gy Indicators: | | Shoomadou reads | . Teature | is a clay | inclusio | n. May have been fro | m a pond liner. |
| | | ne is require | | | is a clay | inclusio | | m a pond liner. ry Indicators (minimum of two required) |
| Wetland Hydrolog Primary Indicators Surface Water | (minimum of o | ne is require | ed; check all that a | apply) (B11) | is a clay | inclusio | Seconda | ry Indicators (minimum of two required) er Marks (B1) (Riverine) |
| Wetland Hydrolog Primary Indicators | (minimum of o | ne is require | ed; check all that a Salt Crust Biotic Crus | apply) (B11) st (B12) | | | Seconda | ry Indicators (minimum of two required) |
| Wetland Hydrolog Primary Indicators Surface Water | (minimum of o (A1) ble (A2) | ne is require | ed; check all that a | apply) (B11) st (B12) | | | SecondaWate | ry Indicators (minimum of two required) er Marks (B1) (Riverine) |
| Wetland Hydrolog Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (| (minimum of o (A1) ble (A2)) B1) (Nonriveri | ne) | ed; check all that a Salt Crust Biotic Crus Aquatic In Hydrogen | apply) (B11) st (B12) vertebrat Sulfide (| es (B13) |) | SecondaWateSediDriftDrain | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) |
| Wetland Hydrolog Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (I Sediment Dep | (minimum of o (A1) ble (A2)) B1) (Nonriveri osits (B2) (Nor | ne) nriverine) | ed; check all that a Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F | apply) (B11) st (B12) vertebrat Sulfide (Rhizosph | es (B13) Odor (C1 eres on l |) Living R | Seconda Wate Sedi Drift Drain oots (C3) Dry- | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) |
| Wetland Hydrolog Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (I) Sediment Dep Drift Deposits | (minimum of o (A1) ble (A2)) B1) (Nonriveri osits (B2) (Nor (B3) (Nonriver | ne) nriverine) | ed; check all that a Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F | apply) (B11) st (B12) vertebrat Sulfide (Rhizosph of Reduc | es (B13) Odor (C1 eres on l |) Living R (C4) | Seconda Wate Sedi Drift Drain oots (C3) Dry- | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) |
| Wetland Hydrolog Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (I) Sediment Dep Drift Deposits X Surface Soil C | (Minimum of o (A1) ble (A2)) B1) (Nonriveri osits (B2) (Nor (B3) (Nonriver racks (B6) | ne) nriverine) ine) | ed; check all that a Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro | apply) (B11) st (B12) vertebrat Sulfide (Rhizosph of Reduc | es (B13) Odor (C1 eres on l ced Iron (tion in Ti |) Living R (C4) | Seconda | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) |
| Wetland Hydrolog Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (I) Sediment Dep Drift Deposits X Surface Soil C X Inundation Vis | (minimum of o (A1) ble (A2)) B1) (Nonriveri osits (B2) (Nor (B3) (Nonriver racks (B6) ible on Aerial Ir | ne) nriverine) ine) | ed; check all that a Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro | apply) (B11) st (B12) vertebrat Sulfide C Rhizosph of Reduc n Reduc | es (B13) Odor (C1 eres on l eed Iron (tion in Ti (C7) |) Living R (C4) | Seconda | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) |
| Wetland Hydrolog Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (I) Sediment Dep Drift Deposits X Surface Soil C | (minimum of o (A1) ble (A2)) B1) (Nonriveri osits (B2) (Nor (B3) (Nonriver racks (B6) ible on Aerial Ir | ne) nriverine) ine) | ed; check all that a Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro | apply) (B11) st (B12) vertebrat Sulfide C Rhizosph of Reduc n Reduc | es (B13) Odor (C1 eres on l eed Iron (tion in Ti (C7) |) Living R (C4) | Seconda | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) |
| Wetland Hydrolog Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (I) Sediment Dep Drift Deposits X Surface Soil C X Inundation Vis Water-Stained Field Observation | (minimum of o (A1) (ble (A2)) B1) (Nonriveri osits (B2) (Nor (B3) (Nonriver racks (B6) ible on Aerial Ir Leaves (B9) | ne) nriverine) ine) | ed; check all that a Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro | apply) (B11) st (B12) vertebrat Sulfide C Rhizosph of Reduc n Reduc s Surface blain in R | es (B13) Odor (C1 eres on l ced Iron (tion in Ti (C7) emarks) |) Living R (C4) | Seconda | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) |
| Wetland Hydrolog Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (I) Sediment Dep Drift Deposits X Surface Soil C X Inundation Vis Water-Stained Field Observation Surface Water Pre | (minimum of o (A1) (ble (A2)) B1) (Nonriveri osits (B2) (Nor (B3) (Nonriver racks (B6) ible on Aerial Ir Leaves (B9) ns: sent? Ye | ne) nriverine) ine) magery (B7) | ed; check all that a Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp. | apply) (B11) st (B12) vertebrat Sulfide (Rhizosph of Reduc n Reduc s Surface blain in R | es (B13) Odor (C1 eres on l ced Iron (tion in Ti (C7) demarks) |) Living R (C4) | Seconda | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) |
| Wetland Hydrolog Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (I) Sediment Dep Drift Deposits X Surface Soil C X Inundation Vis Water-Stained Field Observation Surface Water Preservations | (minimum of o (A1) ble (A2)) B1) (Nonriveri osits (B2) (Nor (B3) (Nonriver racks (B6) ible on Aerial Ir Leaves (B9) ns: sent? Ye | ne) nriverine) ine) magery (B7) s | ed; check all that a Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp | apply) (B11) st (B12) vertebrat Sulfide C Rhizosph of Reduc n Reduc s Surface blain in R Depth (ii | es (B13) Odor (C1 eres on l ced Iron (tion in Ti (C7) demarks) |) Living R (C4) Iled Soil | Seconda | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5) |
| Wetland Hydrolog Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (I) Sediment Dep Drift Deposits X Surface Soil C X Inundation Vis Water-Stained Field Observation Surface Water Pre Water Table Preset Saturation Present | (minimum of o (A1) ble (A2)) B1) (Nonriveriosits (B2) (Noriveriosits (B2) (Noriveriosits (B6)) ible on Aerial In Leaves (B9) is: sent? Yelling (Parity Control of the control of t | ne) nriverine) ine) magery (B7) | ed; check all that a Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp. | apply) (B11) st (B12) vertebrat Sulfide (Rhizosph of Reduc n Reduc s Surface blain in R | es (B13) Odor (C1 eres on l ced Iron (tion in Ti (C7) demarks) |) Living R (C4) | Seconda | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) |
| Wetland Hydrolog Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (I) Sediment Deposits X Surface Soil C X Inundation Vis Water-Stained Field Observation Surface Water Pre Water Table Preset Saturation Present (includes capillary | (minimum of o (A1) ble (A2)) B1) (Nonriveriosits (B2) (Norriveriosits (B2) (Norriveriosits (B6)) ible on Aerial In Leaves (B9) as: sent? Yeller Yell | ne) nriverine) ine) magery (B7) s s s X | Salt Crust Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp | apply) (B11) st (B12) vertebrat Sulfide C Rhizosph of Reduc on Reduc Surface blain in R Depth (ii Depth (iii | es (B13) Odor (C1 eres on leed Iron (tion in Ti (C7) emarks) nches): _ nches): _ |) Living R (C4) Illed Soil | Seconda | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5) |
| Wetland Hydrolog Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (I) Sediment Dep Drift Deposits X Surface Soil C X Inundation Vis Water-Stained Field Observation Surface Water Pre Water Table Preset Saturation Present | (minimum of o (A1) ble (A2)) B1) (Nonriveriosits (B2) (Norriveriosits (B2) (Norriveriosits (B6)) ible on Aerial In Leaves (B9) as: sent? Yeller Yell | ne) nriverine) ine) magery (B7) s s s X | Salt Crust Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp | apply) (B11) st (B12) vertebrat Sulfide C Rhizosph of Reduc on Reduc Surface blain in R Depth (ii Depth (iii | es (B13) Odor (C1 eres on leed Iron (tion in Ti (C7) emarks) nches): _ nches): _ |) Living R (C4) Illed Soil | Seconda | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5) |
| Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (I) Sediment Dep Drift Deposits X Surface Soil C X Inundation Vis Water-Stained Field Observatior Surface Water Pre Water Table Prese Saturation Present (includes capillary | (minimum of o (A1) ble (A2)) B1) (Nonriveriosits (B2) (Norriveriosits (B2) (Norriveriosits (B6)) ible on Aerial In Leaves (B9) as: sent? Yeller Yell | ne) nriverine) ine) magery (B7) s s s X | Salt Crust Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp | apply) (B11) st (B12) vertebrat Sulfide C Rhizosph of Reduc on Reduc Surface blain in R Depth (ii Depth (iii | es (B13) Odor (C1 eres on leed Iron (tion in Ti (C7) emarks) nches): _ nches): _ |) Living R (C4) Illed Soil | Seconda | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5) |
| Wetland Hydrolog Primary Indicators Surface Water High Water Ta X Saturation (A3 Water Marks (I) Sediment Dep Drift Deposits X Surface Soil C X Inundation Vis Water-Stained Field Observation Surface Water Pre Water Table Prese Saturation Present (includes capillary Describe Recorded | (minimum of o (A1) ble (A2)) B1) (Nonriveriosits (B2) (Norriveriosits (B2) (Norriveriosits (B6)) ible on Aerial In Leaves (B9) as: sent? Yeller Yell | ne) nriverine) ine) magery (B7) s s s X | Salt Crust Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp | apply) (B11) st (B12) vertebrat Sulfide C Rhizosph of Reduc on Reduc Surface blain in R Depth (ii Depth (iii | es (B13) Odor (C1 eres on leed Iron (tion in Ti (C7) emarks) nches): _ nches): _ |) Living R (C4) Illed Soil | Seconda | ry Indicators (minimum of two required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5) |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | ınty: Wasco | | Sampling Date: | 6/27/2023 |
|---|------------------|-----------------|----------------|--|------------------------------------|-----------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | SP-316 |
| Investigator(s): Jess Taylor, Summer Roberts | | Section, | Township, Ra | ange: <u>T04S, R15E</u> | | |
| Landform (hillside, terrace, etc.): Plateau | | Local relief (c | oncave, conv | rex, none): None. | Slop | e (%): <u>0</u> |
| Subregion (LRR): LRR B Lat: 45.157797° | | | Long: - | 120.843690° | Datum: | WGS 84 |
| Soil Map Unit Name: Condon-Bakeoven complex, 2 to | 20 percent s | slopes (62884) |) | NWI class | ification: None. | |
| Are climatic / hydrologic conditions on the site typical fo | r this time of | f year? | Yes X | No (If no, e | xplain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologys | significantly of | disturbed? / | Are "Normal (| Circumstances" present | ? Yes <u>X</u> No | |
| Are Vegetation, Soil, or Hydrologyr | naturally pro | blematic? (| (If needed, ex | plain any answers in R | emarks.) | |
| SUMMARY OF FINDINGS – Attach site ma | ıp showin | ng samplin | g point lo | cations, transects | , important featı | ıres, etc. |
| Hydrophytic Vegetation Present? Yes No | . X | Is the | e Sampled A | rea | | |
| | X | | n a Wetland | | No X | |
| | <u> </u> | | | | | |
| Remarks: | | | | | | |
| Upland plot for SP-315 (excavated pond). | | | | | | |
| VEGETATION – Use scientific names of p | lants | | | | | |
| TEGETATION GOO COLONIANO NAMES OF P | Absolute | Dominant | Indicator | | | |
| <u>Tree Stratum</u> (Plot size: <u>30' radius</u>) | % Cover | Species? | Status | Dominance Test wo | | |
| 1 | | | | Number of Dominan Are OBL, FACW, or | | 0 (A) |
| 3. | | | | Total Number of Dor | | <u> </u> |
| 4. | | | | Across All Strata: | | 3 (B) |
| | | =Total Cover | | Percent of Dominant | • | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | | | Are OBL, FACW, or | FAC: 0 | .0% (A/B) |
| 1 2. | | | | Prevalence Index w | vorkehoot: | |
| 3. | | | | Total % Cover | | ply by: |
| 4. | | | | OBL species | 0 x 1 = | 0 |
| 5 | | | | FACW species | 0 x 2 = | 0 |
| Harb Chraham (Distained Finadine | | =Total Cover | | FAC species | 0 x 3 = | 0 |
| Herb Stratum (Plot size: 5' radius) 1. Thinopyrum intermedium | 15 | No | UPL | FACU species UPL species | 0 | 0 175 |
| Bromus tectorum | 35 | Yes | UPL | | | 175 (B) |
| 3. Vulpia microstachys | 20 | Yes | UPL | Prevalence Index | | |
| 4. Taeniatherum caput-medusae | 25 | Yes | UPL | | | |
| 5. | | | | Hydrophytic Vegeta | | |
| 6 | | | | Dominance Test Prevalence Inde | | |
| 8. | | | | | daptations ¹ (Provide : | supporting |
| | 95 | =Total Cover | | | rks or on a separate s | |
| Woody Vine Stratum (Plot size: 30' radius) | | | | Problematic Hyd | Irophytic Vegetation ¹ | (Explain) |
| 1 | | | | ¹ Indicators of hydric | | |
| ۷. | | =Total Cover | | be present, unless d | isturbed or problemat | uc. |
| | | | | Hydrophytic Vegetation | | |
| % Bare Ground in Herb Stratum 5 % C | Cover of Biot | ic Crust 0 | | Present? Yes | s No_X | _ |
| Remarks: | | | | • | | |
| | | | | | | |

SOIL Sampling Point: SP-316

| | • | o the depth | | | | itor or c | onfirm the absence o | of indicators.) | |
|--|---|----------------|------------------------|---------------|-------------------|------------------|------------------------------|--|---------------------|
| Depth | Matrix Color (moist) | % | Color (moist) | x Featur % | | Loc ² | Texture | D. | narks |
| (inches) | ` / | | COIOI (IIIOISI) | 70 | Type ¹ | LUC | | | |
| <u>0-16</u> | 10YR 3/2 | 100 | | | | | Loamy/Clayey | Silt | Loam |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | _ | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹ Type: C=Conce | entration, D=Deple | etion RM-F | Reduced Matrix (| S=Cove | ered or C | nated S | and Grains ² Loca | tion: PL=Pore Linir | ng M=Matrix |
| | icators: (Applical | | | | | oated O | | s for Problematic | |
| Histosol (A1 | ` | | Sandy Red | | , | | | Muck (A9) (LRR C) | - |
| Histic Epipe | | | Stripped M | , , | 6) | | | Muck (A10) (LRR E | |
| Black Histic | | | Loamy Mu | cky Mine | eral (F1) | | | Manganese Masses | - |
| Hydrogen S | Sulfide (A4) | | Loamy Gle | yed Mat | rix (F2) | | Redu | ced Vertic (F18) | |
| Stratified La | ayers (A5) (LRR C |) | Depleted N | /latrix (F | 3) | | Red F | Parent Material (F21 | 1) |
| 1 cm Muck (| (A9) (LRR D) | | Redox Dar | k Surfac | e (F6) | | | Shallow Dark Surfa | ' ' |
| Depleted Be | elow Dark Surface | (A11) | Depleted D | Oark Sur | face (F7) | | Other | (Explain in Remark | ks) |
| | Surface (A12) | | Redox Dep | pression | s (F8) | | | | |
| | ky Mineral (S1) | 2 | | | | | | | |
| Sandy Gleye | ed Matrix (S4) | °Indicator: | s of hydrophytic v | egetatio | n and we | tland hy | drology must be prese | nt, unless disturbed | d or problematic. |
| Restrictive Lay | er (if observed): | | | | | | | | |
| Type: | | | _ | | | | | | |
| Depth (inche | es): | | _ | | | | Hydric Soil Present | ? Yes | No X |
| | | | | | | | | | |
| HYDROLOGY | Y | | | | | | | | |
| • | logy Indicators: | | | | | | | | |
| - | ors (minimum of or | ne is require | | | | | | | um of two required) |
| Surface Wat | ` ' | | Salt Crust | ` ' | | | | r Marks (B1) (River | |
| High Water | | | Biotic Crus | | (5.40) | | | nent Deposits (B2) | |
| Saturation (/ | , | \ | Aquatic Inv | | ` , | | | Deposits (B3) (Rive | • |
| | s (B1) (Nonriverir eposits (B2) (Non | - | Hydrogen Oxidized R | | | | | age Patterns (B10) Season Water Table | |
| | its (B3) (Nonriveri | - | Presence | • | | • | · · · — · | ish Burrows (C8) | (02) |
| | l Cracks (B6) | 110, | Recent Iro | | | , | | ation Visible on Aer | rial Imagery (C9) |
| | √isible on Aerial In | nagery (B7) | | | | | | ow Aquitard (D3) | iai iiiageiy (ee) |
| | ed Leaves (B9) | 3 , () | Other (Exp | | | | | Neutral Test (D5) | |
| Field Observati | ions: | | | | | | <u> </u> | | |
| Surface Water P | Present? Yes | 3 | No X | Depth (ii | nches): | | | | |
| Water Table Pre | esent? Yes | | No X | Depth (ii | nches): | | | | |
| Water Table Fre | | | | | nches): | | Wetland Hydrolog | v Present? Yes | No X |
| Saturation Prese | ent? Yes | s | No X | Deptii (ii | 1101100). | | | ,, | |
| | | · | NO <u>X</u> | Dopui (ii | 1101100). | | | | |
| Saturation Prese (includes capilla | ry fringe) | | | | | | tions), if available: | | |
| Saturation Prese (includes capilla Describe Record | ry fringe) | | | | | | | | |
| Saturation Prese (includes capilla Describe Record Remarks: | ary fringe) ded Data (stream | gauge, mor | | | | | | | |
| Saturation Prese (includes capilla Describe Record Remarks: | ry fringe) | gauge, mor | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | City/County: Wasco | | Sampling Date: | 7/18/2023 |
|--|----------------------------|--|---------------------|-----------------|
| Applicant/Owner: Savion | <u> </u> | State: OR | Sampling Point: | SP-406 |
| Investigator(s): Jess Taylor, Katie Pyne | Section, Township, Ran | ge: T04S, R15E | | |
| Landform (hillside, terrace, etc.): Plateau Loc | al relief (concave, convex | k, none): Concave | Slope | e (%): <u>0</u> |
| Subregion (LRR): LRR B Lat: 45.155591 | Long: -12 | 0.825437 | Datum: | WGS 84 |
| Soil Map Unit Name: Condon silt loam, 2 to 12 percent slopes | | NWI classifica | ation: PUSAh | |
| Are climatic / hydrologic conditions on the site typical for this time of ye | ar? Yes X | No (If no, expla | ain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologysignificantly dist | urbed? Are "Normal Cir | cumstances" present? | Yes X No | |
| Are Vegetation, Soil, or Hydrologynaturally problem | natic? (If needed, expl | ain any answers in Rema | arks.) | |
| SUMMARY OF FINDINGS – Attach site map showing | sampling point loca | ations, transects, in | nportant featu | res, etc. |
| Hydrophytic Vegetation Present? Yes No X | Is the Sampled Are | | | |
| Hydric Soil Present? Yes No X | within a Wetland? | Yes | No X | |
| Wetland Hydrology Present? Yes No _X | | | | |
| Remarks: | d Prosets also and | | | |
| Confirm NWI, no hydric soils or wetland vegetation. No water in berme | ed livestock pond. | | | |
| VEGETATION – Use scientific names of plants. | | | | |
| • | ominant Indicator | | | |
| | Species? Status | Dominance Test works | sheet: | |
| 1 | | Number of Dominant Sp Are OBL, FACW, or FAC | |) (A) |
| 3. | | Total Number of Domina | | , (,,) |
| 4. | | Across All Strata: | 1 | (B) |
| | otal Cover | Percent of Dominant Sp | | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | Are OBL, FACW, or FAC | C: 0.0 |)% (A/B) |
| 1 | | Prevalence Index work | rsheet: | |
| 3. | | Total % Cover of: | Multip | ly by: |
| 4. | | OBL species 0 | x 1 =(|) |
| 5 | | FACW species 0 | x 2 = | |
| Herb Stratum (Plot size: 5' radius) | otal Cover | FAC species 0 FACU species 0 | x 3 = 0 x 4 = 0 | |
| 1. Taeniatherum caput-medusae 50 | Yes UPL | UPL species 50 | x 5 = 25 | |
| 2. | | Column Totals: 50 | (A) 25 | |
| 3. | | Prevalence Index = | B/A = 5.00 | |
| 4 | | | | |
| 5 | | Hydrophytic Vegetatio Dominance Test is a | | |
| 7. | | Prevalence Index is | | |
| 8. | | Morphological Adap | | |
| 50=To | otal Cover | | or on a separate sh | • |
| Woody Vine Stratum (Plot size: 30' radius) | | Problematic Hydrop | | |
| 1 | | ¹ Indicators of hydric soil be present, unless distu | | |
| | otal Cover | Hydrophytic | probleman | |
| | | Vegetation | | |
| % Bare Ground in Herb Stratum 50 % Cover of Biotic C | rust 0 | Present? Yes | NoX | |
| Remarks: | | | | |
| | | | | |

SOIL Sampling Point: SP-406

| Profile Desc Depth | ription: (Describe to Matrix | o the depth | | ıment th x Featur | | itor or o | confirm the absence o | f indicators.) | |
|-------------------------------|---|---------------|----------------------|-----------------------------|-------------------|------------------|------------------------|---|--------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-16 | 10YR 3/2 | 100 | , , , | | | | Loamy/Clayey | Silt Loam | |
| | | | | | | | , , , , | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | oncentration, D=Deple | | | | | oated S | | tion: PL=Pore Lining, M= | |
| _ | Indicators: (Applical | ole to all Li | | | | | | s for Problematic Hydric | Soils": |
| Histosol | ` ' | | Sandy Red | | | | | Muck (A9) (LRR C) | |
| | pipedon (A2) | | Stripped M | | | | | Muck (A10) (LRR B) | (I DD D) |
| Black His | ` ' | | Loamy Mu | - | | | | Manganese Masses (F12) | (LKK D) |
| | n Sulfide (A4) I Layers (A5) (LRR C) | 1 | Loamy Gle Depleted N | - | | | | ced Vertic (F18) Parent Material (F21) | |
| | ck (A9) (LRR D) | ! | Redox Dar | , | , | | | Shallow Dark Surface (F2: | 2) |
| | Below Dark Surface | (Δ11) | Depleted D | | | | | (Explain in Remarks) | <u>~)</u> |
| | ark Surface (A12) | (/ () / | Redox Dep | | | | | (Explain in Romano) | |
| | lucky Mineral (S1) | | Rodox Bop | 710001011 | 0 (1 0) | | | | |
| | leyed Matrix (S4) | 3Indicators | s of hydrophytic v | egetatio | n and we | tland hy | drology must be preser | nt, unless disturbed or pro | blematic. |
| Restrictive I | _ayer (if observed): | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| Type: | , | | | | | | | | |
| Depth (ir | nches): | | _ | | | | Hydric Soil Present | ? Yes | No X |
| HYDROLO | GY | | | | | | | | |
| | drology Indicators: | | | | | | | | |
| - | cators (minimum of or | e is require | ed; check all that a | apply) | | | Secondar | / Indicators (minimum of t | wo required) |
| Surface 1 | Water (A1) | • | Salt Crust | (B11) | | | Water | Marks (B1) (Riverine) | • • |
| High Wa | ter Table (A2) | | Biotic Crus | t (B12) | | | Sedim | nent Deposits (B2) (Riveri | ne) |
| Saturation | on (A3) | | Aquatic Inv | ertebrat | tes (B13) | | Drift D | Deposits (B3) (Riverine) | |
| | arks (B1) (Nonriverir | - | Hydrogen | | | | | age Patterns (B10) | |
| | t Deposits (B2) (Non | - | Oxidized R | | | - | · · · — · | eason Water Table (C2) | |
| | osits (B3) (Nonriveri | ne) | Presence of | | , | , | · | sh Burrows (C8) | (00) |
| | Soil Cracks (B6) | (D.7) | Recent Iro | | | lled Soi | | ation Visible on Aerial Ima | gery (C9) |
| | on Visible on Aerial In | nagery (B7) | | | | | | ow Aquitard (D3) | |
| | tained Leaves (B9) | | Other (Exp | iain in R | ternarks) | | FAC-I | Neutral Test (D5) | |
| Field Observ | | | No. V | Donth (i | nahaa\. | | | | |
| Surface Water | | | | | nches): _ | | | | |
| Water Table | | | | Depth (i Depth (i | nches): _ | | Wetland Hydrolog | y Present? Yes | No X |
| | racant? Vac | | INU A | Deptii (i | 11C11C3). | | Welland Hydrolog | y i resent: res | NO / |
| Saturation Pr | | ·—— | | | | | | | |
| (includes cap | | | | l photos, | , previous | s inspec | tions), if available: | | |
| (includes cap Describe Red | oillary fringe) | | | l photos, | , previous | s inspec | tions), if available: | | |
| (includes cap | oillary fringe) | | | l photos, | , previou: | s inspec | Ltions), if available: | | |
| (includes cap Describe Red | oillary fringe) | | | l photos, | , previou: | s inspec | tions), if available: | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | nty: Wasco | | Sampling Date: | 7/18/2023 |
|---|---------------------|-------------------|---------------------|--|--|------------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | SP-417 |
| Investigator(s): Jess Taylor, Katie Pyne | | Section, T | ownship, Ra | nge: <u>T04S, R15E</u> | | |
| Landform (hillside, terrace, etc.): Plateau | L | ocal relief (co | ncave, conv | ex, none): Concave | Slo | pe (%): <u>0</u> |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.160211</u> | | | Long:1 | 20.830397 | Datum: | WGS 84 |
| Soil Map Unit Name: Condon-Bakeoven complex, 20 | to 20 percent s | slopes | | NWI classifi | cation: PUSAh | |
| Are climatic / hydrologic conditions on the site typical f | or this time of | year? | Yes X | No (If no, exp | lain in Remarks.) | |
| Are Vegetation, Soil, or Hydrology | significantly di | sturbed? A | re "Normal C | Circumstances" present? | Yes X N | o |
| Are Vegetation, Soil, or Hydrology | naturally probl | ematic? (I | f needed, ex | plain any answers in Ren | narks.) | |
| SUMMARY OF FINDINGS – Attach site m | ap showing | g sampling | g point lo | cations, transects, | important feat | ures, etc. |
| Hydrophytic Vegetation Present? Yes N | lo X | Is the | Sampled A | rea | | |
| | lo X | | n a Wetland' | | No_X_ | |
| Wetland Hydrology Present? Yes N | lo X | | | | | |
| Remarks: This plot confirms a National Wetlands Inventory map filled. | oped pond feat | ure as non-w | etland, no hy | dric soils or wetland vege | etation. Livestock p | ond is not |
| VEGETATION – Use scientific names of p | | | | | | |
| Tree Stratum (Plot size: 30' radius) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test wor | kshoot: | |
| 1. | 70 COVE | Opecies: | Status | Number of Dominant S | | |
| 2. | · | | | Are OBL, FACW, or FA | • | 0 (A) |
| 3. 4. | | | | Total Number of Domi Across All Strata: | nant Species | 3 (B) |
| | = | Total Cover | | Percent of Dominant S | Species That | ``` |
| Sapling/Shrub Stratum (Plot size: 15' radius | • | | | Are OBL, FACW, or F | 4C: <u>C</u> | 0.0% (A/B) |
| 1. Artemisia tridentata | 20 | Yes | UPL | Bassadan as la dassas | -111 | |
| 2. 3. | · | | | Prevalence Index wo Total % Cover of: | | tiply by: |
| 4. | | | | OBL species 0 | | 0 |
| 5. | | | | FACW species 0 | x 2 = | 0 |
| | 20 = | Total Cover | · | FAC species 0 | | 0 |
| Herb Stratum (Plot size: 5' radius) | | | | FACU species 20 | | 80 |
| Poa bulbosa Bromus tectorum | 20 15 | Yes Yes | FACU UPL | UPL species 35 Column Totals: 55 | | 175 255 (B) |
| 3. | | 162 | UPL | Column Totals: 55 Prevalence Index : | | 255 (B) |
| 4. | | | | r revalence maex | - B// (= 1.0 | <u>·</u> |
| 5. | | | | Hydrophytic Vegetat | ion Indicators: | |
| 6. | | | | Dominance Test is | \$ >50% | |
| 7 | | | | Prevalence Index | | |
| 8 | 35 = | Total Cover | | Morphological Ada data in Remark | aptations' (Provide s or on a separate | |
| Woody Vine Stratum (Plot size: 30' radius | | | | Problematic Hydro | phytic Vegetation ¹ | (Explain) |
| 1. | • | | | ¹ Indicators of hydric so | il and wetland hyd | Irology must |
| 2 | | | | be present, unless dist | urbed or problema | atic. |
| | = | Total Cover | | Hydrophytic | | |
| % Bare Ground in Herb Stratum 65 % | Cover of Biotic | : Crust 0 | | Vegetation Present? Yes | No_X | |
| Remarks: | | <u> </u> | | | | |
| | | | | | | |
| | | | | | | |

SOIL Sampling Point: SP-417

| | • | to the dep | | | | itor or c | onfirm the absence of | of indicators.) |) | |
|-------------------------|----------------------|-----------------------|-----------------------|---------------|-------------------|------------------|-------------------------------|-----------------------|---------------|--------------|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Featur % | Type ¹ | Loc ² | Texture | | Remarks | |
| 0-16 | 10YR 3/2 | 100 | Color (moist) | 70 | Туре | LOC | | | Silt Loam | |
| 0-16 | 10113/2 | 100 | | | | | Loamy/Clayey | | SIII LUAIII | |
| | - | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=De | oletion, RM= | Reduced Matrix. (| CS=Cove | red or C | oated S | and Grains. ² Loca | ation: PL=Pore | e Linina. M=N | Matrix. |
| | Indicators: (Applic | | | | | | | s for Problen | | |
| Histosol | ٠ | | Sandy Red | | , | | | Muck (A9) (LI | - | |
| | pipedon (A2) | | Stripped M | | 5) | | | Muck (A10) (I | - | |
| Black His | | | Loamy Mu | cky Mine | ral (F1) | | | Manganese M | - | (LRR D) |
| | n Sulfide (A4) | | Loamy Gle | - | | | | ced Vertic (F1 | | |
| Stratified | Layers (A5) (LRR | C) | Depleted N | Matrix (F | 3) | | Red I | Parent Materia | al (F21) | |
| 1 cm Mu | ck (A9) (LRR D) | | Redox Da | rk Surfac | e (F6) | | Very | Shallow Dark | Surface (F22 | 2) |
| Depleted | Below Dark Surfac | e (A11) | Depleted [| Dark Sur | ace (F7) |) | Other | r (Explain in R | emarks) | |
| Thick Da | rk Surface (A12) | | Redox De | oression | s (F8) | | | | | |
| Sandy M | lucky Mineral (S1) | | | | | | | | | |
| Sandy G | leyed Matrix (S4) | ³ Indicato | ors of hydrophytic v | egetatio | n and we | tland hy | drology must be prese | ent, unless dist | turbed or pro | blematic. |
| Restrictive I | _ayer (if observed) |): | | | | | | | | |
| Type: | rock | | | | | | | | | |
| Depth (ir | nches): 16 | | | | | | Hydric Soil Present | ? | Yes | No X |
| HYDROLO | GY | | | | | | | | | |
| | drology Indicators | _ | | | | | | | | |
| • | cators (minimum of | | red: check all that a | annly) | | | Secondar | y Indicators (r | minimum of t | wo required) |
| - | Water (A1) | one is requii | Salt Crust | | | | | r Marks (B1) (| | wo required) |
| | ter Table (A2) | | Biotic Crus | ` ' | | | | nent Deposits | - | ne) |
| Saturation | | | Aquatic Inv | | es (B13) | | | Deposits (B3) | | , |
| | arks (B1) (Nonrive | rine) | Hydrogen | | , , | | | age Patterns | - | |
| | nt Deposits (B2) (No | - | Oxidized F | | | | oots (C3) Dry-S | Season Water | Table (C2) | |
| Drift Dep | osits (B3) (Nonrive | erine) | Presence | of Reduc | ed Iron (| (C4) | Crayf | ish Burrows (0 | C8) | |
| Surface | Soil Cracks (B6) | | Recent Iro | n Reduc | tion in Ti | lled Soil | s (C6)Satur | ation Visible o | on Aerial Ima | gery (C9) |
| Inundation | on Visible on Aerial | Imagery (B7 | 7)Thin Muck | Surface | (C7) | | Shall | ow Aquitard ([| D3) | |
| Water-St | tained Leaves (B9) | | Other (Exp | lain in R | emarks) | | FAC- | Neutral Test (| D5) | |
| Field Observ | vations: | | | | | | | | | |
| Surface Water | er Present? Y | es | | Depth (ii | · - | | | | | |
| Water Table | | es | | Depth (ii | | | | | | |
| Saturation P | | es | No <u>X</u> | Depth (ii | nches): _ | | Wetland Hydrolog | gy Present? | Yes | No X |
| (includes cap | <u> </u> | | | | | | | | | |
| Describe Red | corded Data (strear | n gauge, mo | onitoring well, aeria | ı photos, | previou | s inspec | tions), if available: | | | |
| Remarks: | | | | | | | | | | |
| . tomanto. | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | nty: Wasco | | Sampling Date: | 7/19/2023 |
|---|-------------------|-----------------|------------------|---|---------------------------------|--------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | SP-434A |
| Investigator(s): Jess Taylor, Katie Pyne | | Section, T | ownship, Ra | nge: T04S, R15E | | |
| Landform (hillside, terrace, etc.): Plateau | Lo | ocal relief (co | ncave, conv | ex, none): Concave | Slop | e (%): 0 |
| Subregion (LRR): LRR B Lat: 45.124761 | | | Long: <u>-</u> 1 | 20.830377 | Datum: | WGS 84 |
| Soil Map Unit Name: Condon-Bakeoven complex, 2 to | 20 percent slo | opes | | NWI classifi | cation: None. | |
| Are climatic / hydrologic conditions on the site typical fo | r this time of y | year? | Yes X | No (If no, exp | lain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologys | significantly dis | sturbed? A | re "Normal C | Circumstances" present? | Yes X No |) <u> </u> |
| Are Vegetation, Soil, or Hydrologyr | naturally probl | ematic? (I | f needed, ex | plain any answers in Ren | narks.) | |
| SUMMARY OF FINDINGS – Attach site ma | p showing | ງ samplinຸ | g point lo | cations, transects, | important featu | ıres, etc. |
| | <u> </u> | | Sampled A | | No | |
| Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No | <u> </u> | Withir | n a Wetland | ? Yes <u>X</u> | No | |
| Remarks: | l in rengelone | d with problem | matia vagatia | _ | | |
| The plot represents wetland conditions in a vernal poo | i in rangeland | with probler | natic vegetio | n. | | |
| VEGETATION – Use scientific names of p | lants. | | | | | |
| Tree Stratum (Diet size) 20' redius | Absolute | Dominant | Indicator | Deminance Test wer | kohoot. | |
| Tree Stratum (Plot size: 30' radius) 1. | % Cover | Species? | Status | Dominance Test wor Number of Dominant S | | |
| 2. | | | | Are OBL, FACW, or F | • | 1 (A) |
| 3. | | | | Total Number of Domi | nant Species | |
| 4 | | | | Across All Strata: | | 3 (B) |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | Total Cover | | Percent of Dominant S Are OBL, FACW, or FA | • | 3.3% (A/B) |
| Sapling/Shrub Stratum (Plot size: 15' radius) 1. | | | | Ale OBL, FACW, OF FA | 40. <u>30</u> | 5.5 /6 (A/D) |
| 2. | | | | Prevalence Index wo | rksheet: | |
| 3. | | | | Total % Cover of: | Multi | ply by: |
| 4 | | | | OBL species 0 | | 0 |
| 5 | | Total Cover | | FACW species 5 | | 10 0 |
| Herb Stratum (Plot size: 5' radius) | = | Total Cover | | FAC species 0 FACU species 0 | | 0 |
| 1. Lepidium draba | 10 | Yes | UPL | UPL species 15 | | 75 |
| 2. Erodium cicutarium | 5 | Yes | UPL | Column Totals: 20 | (A) | 85 (B) |
| 3. Epilobium densiflorum | 5 | Yes | FACW | Prevalence Index : | = B/A = 4.25 | |
| 4 | | | | Uvdrophytic Vocatet | ion Indiantoro | |
| 5 6. | | | | Hydrophytic Vegetati Dominance Test is | | |
| 7. | | | | Prevalence Index | | |
| 8. | | | | | aptations ¹ (Provide | supporting |
| | 20 = | Total Cover | | | s or on a separate s | , |
| Woody Vine Stratum (Plot size: 30' radius) | | | | X Problematic Hydro | phytic Vegetation ¹ | (Explain) |
| 1 | | | | ¹ Indicators of hydric so be present, unless dist | | |
| | | Total Cover | | Hydrophytic | м. 200 от р. 02.0а. | |
| | | | | Vegetation | | |
| % Bare Ground in Herb Stratum 90 % C | Cover of Biotic | Crust 0 | _ | Present? Yes | No | _ |
| Remarks: | | | | | | |
| Due to hydrologic intermittency, and problemlatic encre | bachment of e | exotics in part | t due to graz | ing in the system, vegeta | tion does not meet. | |

SOIL Sampling Point: SP-434A

| | ription: (Describe t | o the dept | | | | itor or c | onfirm the absence of | or indicators.) | |
|-----------------------------|---|-----------------------|-----------------------|-------------|-------------------|------------------|-------------------------------|---|-----------------|
| Depth (inches) | Matrix | | | x Featur | | Loc ² | Toyturo | Domarko | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc | Texture | Remarks | |
| 0-4 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | Silt Loam | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | _ |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹ Type: C=Co | ncentration, D=Depl | etion, RM= | Reduced Matrix, C | S=Cove | ered or C | oated S | and Grains. ² Loca | tion: PL=Pore Lining, M=Matr | ix. |
| Hydric Soil | ndicators: (Applica | ble to all L | RRs, unless othe | rwise n | oted.) | | Indicator | s for Problematic Hydric Soi | ls³: |
| Histosol | (A1) | | Sandy Red | dox (S5) | | | 1 cm | Muck (A9) (LRR C) | |
| Histic Ep | ipedon (A2) | | Stripped M | latrix (S6 | 6) | | 2 cm | Muck (A10) (LRR B) | |
| Black His | stic (A3) | | Loamy Mu | cky Mine | eral (F1) | | Iron-N | Manganese Masses (F12) (LRI | R D) |
| Hydroge | n Sulfide (A4) | | Loamy Gle | yed Mat | rix (F2) | | Redu | ced Vertic (F18) | |
| Stratified | Layers (A5) (LRR C |) | Depleted N | /latrix (F | 3) | | Red F | Parent Material (F21) | |
| 1 cm Mu | ck (A9) (LRR D) | | Redox Dar | k Surfac | e (F6) | | Very | Shallow Dark Surface (F22) | |
| Depleted | Below Dark Surface | (A11) | Depleted [| Oark Surf | face (F7) |) | X Other | (Explain in Remarks) | |
| Thick Da | rk Surface (A12) | | Redox Dep | pressions | s (F8) | | | | |
| Sandy M | ucky Mineral (S1) | | | | | | | | |
| Sandy G | leyed Matrix (S4) | ³ Indicato | rs of hydrophytic v | egetatio | n and we | etland hy | drology must be prese | nt, unless disturbed or problen | natic. |
| Restrictive I | ayer (if observed): | | | | | | | | |
| Type: | rock | | | | | | | | |
| Depth (ir | iches): | 4 | | | | | Hydric Soil Present | ? Yes_X_N | No |
| Remarks: | <u> </u> | | | | | | | | |
| | lacking apparent rec | lox feature | s, a common probl | em of ve | rnal poo | l wetlan | ds in the region. | | |
| | 0 11 | | | | • | | ŭ | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| | | | | | | | | | |
| _ | drology Indicators: ators (minimum of or | oo ie roquir | od: chock all that a | nnly) | | | Sacandar | y Indicators (minimum of two r | oguirod) |
| - | Nater (A1) | ie is requir | Salt Crust | | | | | y maicators (minimum or two r r Marks (B1) (Riverine) | <u>equirea)</u> |
| | ter Table (A2) | | Biotic Crust | ` ' | | | | nent Deposits (B2) (Riverine) | |
| Saturatio | | | Aquatic Inv | | oc (B13) | | | Deposits (B3) (Riverine) | |
| | arks (B1) (Nonriveri i | no) | Hydrogen | | ` ' | | | age Patterns (B10) | |
| | t Deposits (B2) (Non | - | Oxidized F | | | | | Season Water Table (C2) | |
| | osits (B3) (Nonriver | - | Presence | | | _ | | ish Burrows (C8) | |
| | Soil Cracks (B6) | iiie <i>)</i> | Recent Iro | | | | | ation Visible on Aerial Imagery | , (C9) |
| | on Visible on Aerial Ir | nagery (B7 | | | | iica coii | | ow Aquitard (D3) | (03) |
| | ained Leaves (B9) | nagery (D7 | Other (Exp | | | | | Neutral Test (D5) | |
| | | | Other (EXP | naiii iii i | .cmarks) | | | rectrar rest (D0) | |
| Field Observ | | C | No. Y | Donth /:- | ochoc): | | | | |
| Surface Water | | | | Depth (in | _ | | | | |
| Water Table Saturation P | | | | | nches): | | Wotland Hydroles | ny Procent? Vec V | No. |
| | | ° <u></u> | No <u>X</u> | Depth (ii | | | wetiand nyurolog | gy Present? Yes X N | No |
| (includes cap | corded Data (stream | 031100 ma | nitoring wall soria | Inhotos | provious | e inenaa | tions) if available: | | |
| Describe Ke | Joinen Data (Stream | yauye, 1110 | ilitoring well, aeria | ι μποιος, | previous | s mspec | uons), ii avallable. | | |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | n surface of soil. | | | | | | | | |
| | n surface of soil. | | | | | | | | |
| | i surface of soil. | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/County: Wasco | | Sampling Date: | 7/19/2023 |
|--|---------------------|--------------------------|---|--------------------------------|----------------|
| Applicant/Owner: Savion | | | State: OR | Sampling Point: | SP-434B |
| Investigator(s): Jess Taylor, Katie Pyne | | Section, Township, Ra | ange: T04S, R15E | | |
| Landform (hillside, terrace, etc.): Plateau | Loca | al relief (concave, conv | ex, none): Concave | Slop | e (%): 0 |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.124786</u> | | Long: - | 120.830394 | Datum: | WGS 84 |
| Soil Map Unit Name: Condon-Bakeoven complex, 2 to | 20 percent slope | s | NWI classific | cation: None. | |
| Are climatic / hydrologic conditions on the site typical for | or this time of yea | r? Yes X | No (If no, exp | lain in Remarks.) | |
| Are Vegetation, Soil, or Hydrology | significantly distu | rbed? Are "Normal (| Circumstances" present? | Yes X No | |
| Are Vegetation, Soil, or Hydrology | naturally problem | atic? (If needed, ex | plain any answers in Ren | narks.) | |
| SUMMARY OF FINDINGS – Attach site m | ap showing s | ampling point lo | cations, transects, i | mportant featu | ıres, etc. |
| Hydrophytic Vegetation Present? Yes N | o X | Is the Sampled A | rea | | |
| | o X | within a Wetland | | No X | |
| Wetland Hydrology Present? Yes X N | 0 | | | · | |
| Remarks: | | | | | |
| Upland representative for SP-434A. | | | | | |
| VEGETATION Has as 's of the same as for | | | | | |
| VEGETATION – Use scientific names of p | | ominant Indicator | 1 | | |
| <u>Tree Stratum</u> (Plot size: 30' radius) | | pecies? Status | Dominance Test wor | ksheet: | |
| 1 | | | Number of Dominant S | Species That | |
| 2 | | | Are OBL, FACW, or FA | 4C: | 0 (A) |
| 3. | | | Total Number of Domi | • | 4 (D) |
| 4 | | al Cover | Across All Strata: | | 1 (B) |
| Sapling/Shrub Stratum (Plot size: 15' radius | | .a. 00701 | Percent of Dominant S Are OBL, FACW, or FA | • | 0% (A/B) |
| 1. | , | | | | ` ′ |
| 2. | | | Prevalence Index wo | rksheet: | |
| 3 | | | Total % Cover of: | | ply by: |
| 4 | | | OBL species 0 | | 0 |
| 5 | | al Cover | FACW species 0 FAC species 0 | | <u>0</u> 0 |
| Herb Stratum (Plot size: 5' radius) | | ai oovei | FACU species 10 | | <u>0</u> 40 |
| 1. Taeniatherum caput-medusae | 80 | Yes UPL | UPL species 90 | | 50 |
| 2. Achillea millefolium | 10 | No FACU | Column Totals: 10 | 0 (A) 4 | 90 (B) |
| 3. Bromus tectorum | 10 | No UPL | Prevalence Index = | = B/A = <u>4.90</u> | |
| 4 5. | | | Hudnonbutio Vonetati | ion Indicators | |
| 6. | | | Hydrophytic Vegetati Dominance Test is | | |
| 7. | | | Prevalence Index | | |
| 8. | | | Morphological Ada | aptations¹ (Provide s | supporting |
| | 100 =Tot | al Cover | | s or on a separate s | • |
| Woody Vine Stratum (Plot size: 30' radius | | | | phytic Vegetation ¹ | ` ' ' |
| 1. 2. | | | ¹ Indicators of hydric so be present, unless dist | | |
| | =Tot | al Cover | | urbed or problemati | ic. |
| | | | Hydrophytic Vegetation | | |
| % Bare Ground in Herb Stratum 0 % | Cover of Biotic Cr | rust 0 | Present? Yes | NoX | _ |
| Remarks: | | | | | |
| | | | | | |
| | | | | | |

SOIL Sampling Point: SP-434B

| Profile Descr Depth | iption: (Describe to Matrix | the depth | | ument th x Featur | | ator or c | onfirm the absence o | f indicators.) | |
|----------------------------|--|-------------------------|---------------------|-----------------------------|-------------------|------------------|-------------------------------|--------------------------------|----------------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-12 | 10YR 3/3 | 100 | , | | | | Loamy/Clayey | Silt Loam | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| - | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ¹Type: C=Coi | ncentration, D=Deple | etion, RM=F | Reduced Matrix, 0 | CS=Cove | red or C | oated Sa | and Grains. ² Loca | tion: PL=Pore Lining, M=N | fatrix. |
| Hydric Soil Ir | dicators: (Applicat | ole to all LF | RRs, unless othe | erwise n | oted.) | | Indicators | s for Problematic Hydric | Soils ³ : |
| Histosol (| A1) | | Sandy Red | dox (S5) | | | 1 cm | Muck (A9) (LRR C) | |
| Histic Epi | oedon (A2) | | Stripped M | latrix (Se | 6) | | 2 cm | Muck (A10) (LRR B) | |
| Black Hist | tic (A3) | | Loamy Mu | cky Mine | eral (F1) | | Iron-N | Manganese Masses (F12) (| LRR D) |
| Hydrogen | Sulfide (A4) | | Loamy Gle | eyed Mat | rix (F2) | | Reduc | ced Vertic (F18) | |
| Stratified | Layers (A5) (LRR C) |) | Depleted I | Matrix (F | 3) | | Red F | Parent Material (F21) | |
| 1 cm Muc | k (A9) (LRR D) | | Redox Da | rk Surfac | e (F6) | | Very S | Shallow Dark Surface (F22) |) |
| Depleted | Below Dark Surface | (A11) | Depleted [| Dark Sur | face (F7) |) | Other | (Explain in Remarks) | |
| Thick Dar | k Surface (A12) | | Redox De | oression | s (F8) | | | | |
| | ıcky Mineral (S1) | | | | | | | | |
| Sandy Gle | eyed Matrix (S4) | ³ Indicators | s of hydrophytic v | egetatio | n and we | tland hy | drology must be prese | nt, unless disturbed or prob | olematic. |
| Restrictive La | ayer (if observed): | | | | | | | | |
| Type: | Rock Restric | tion | <u>—</u> | | | | | | |
| Depth (inc | ches): | 12 | <u>—</u> | | | | Hydric Soil Present | ? Yes | No X |
| HYDROLOG | | | | | | | | | |
| HYDROLO(| | | | | | | | | |
| - | rology Indicators: ators (minimum of on | a is raquira | id: check all that | annly) | | | Secondari | y Indicators (minimum of tw | vo required) |
| Surface V | • | e is require | Salt Crust | | | | | · Marks (B1) (Riverine) | vo required) |
| | er Table (A2) | | Biotic Crus | ` ' | | | | nent Deposits (B2) (Riverir | ne) |
| Saturation | | | Aquatic In | | es (B13) | | | Deposits (B3) (Riverine) | , |
| | rks (B1) (Nonriverir | ie) | Hydrogen | | ` ' | | | age Patterns (B10) | |
| | Deposits (B2) (Non | - | Oxidized F | | | | | eason Water Table (C2) | |
| Drift Depo | sits (B3) (Nonriveri | ne) | Presence | of Reduc | ed Iron (| (C4) | Crayfi | sh Burrows (C8) | |
| X Surface S | oil Cracks (B6) | | Recent Iro | n Reduc | tion in Ti | lled Soils | s (C6) Satura | ation Visible on Aerial Imag | gery (C9) |
| Inundation | n Visible on Aerial Im | nagery (B7) | Thin Muck | Surface | (C7) | | Shallo | ow Aquitard (D3) | |
| Water-Sta | ined Leaves (B9) | | Other (Exp | olain in R | emarks) | | FAC-1 | Neutral Test (D5) | |
| Field Observ | ations: | | | | | | | | |
| Surface Wate | r Present? Yes | · | No X | Depth (i | nches): | | | | |
| Water Table F | Present? Yes | ; | No X | Depth (i | nches): | | | | |
| Saturation Pre | esent? Yes | · | No X | Depth (i | nches): | | Wetland Hydrolog | y Present? Yes X | No |
| (includes capi | | | | | | | | | |
| Describe Rec | orded Data (stream o | gauge, mon | itoring well, aeria | l photos, | previou | s inspect | ions), if available: | | |
| Remarks: Algal crust on | surface of soil. | | | | | | | | |
| | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow | Rosebush | | | City/Cou | inty: Wasco | | | Sampling Da | te: <u>7/19</u> | 9/2023 |
|--|-------------------------|--|---------------------|-------------------|----------------------------|----------------------|------------------------------|---|----------------------|------------------|
| Applicant/Owner: | Savion | | | | | State: | OR | Sampling Poi | nt: SF | P-440A |
| Investigator(s): Jess | Taylor, Katie | Pyne | | Section, | Γownship, Ra | inge: T04S | , R15E | | | |
| Landform (hillside, to | errace, etc.): <u>F</u> | Plateau | | Local relief (co | oncave, conv | ex, none): | Concave | ; | Slope (% |): 0 |
| Subregion (LRR): | LRR B | Lat: 45.135566 | 3 | | Long: -1 | 120.840026 | | Datu | m: WG | iS 84 |
| Soil Map Unit Name | : Bakeoven-C | ondon complex, 2 | to 20 percent s | lopes | | | NWI classific | cation: None | | |
| Are climatic / hydrole | ogic conditions | on the site typica | I for this time of | year? | Yes X | No | (If no, exp | lain in Remarks | s.) | |
| Are Vegetation | _, Soil, | or Hydrology | significantly of | disturbed? A | Are "Normal C | Circumstance | es" present? | Yes X | No | |
| Are Vegetation | , Soil , | or Hydrology | naturally prol | olematic? (| If needed, ex | plain any an | swers in Rem | narks.) | | _ |
| SUMMARY OF | FINDINGS - | - Attach site | map showin | g samplin | g point lo | cations, tr | ansects, i | mportant fe | atures | , etc. |
| Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology | ? | Yes X Yes X Yes X | No No No | | e Sampled A n a Wetland | | Yes_X_ | No | | |
| Remarks: | T Tesent: | 163 <u>X</u> | 110 | | | | | | | |
| The plot represents excavated livestock | | | | | nd. The depre | essional featu | ire is potentia | Ily fed by overf | low from | uphill |
| VEGETATION - | - Use scien | tific names of | • | | | | | | | |
| Tree Stratum | (Plot size: | 30' radius) | Absolute % Cover | Dominant Species? | Indicator Status | Dominan | ce Test worl | csheet: | | |
| 1 | (11010120 | , and the second | 70 00101 | Оросност. | Ctatas | Number o | of Dominant S FACW, or FA | pecies That | 2 | (A) |
| 3. | | | | | | | nber of Domir | _ | 2 | — (F) |
| T | | | | =Total Cover | | | f Dominant S | pecies That | | _('') |
| Sapling/Shrub Stra | tum (Plo | ot size: 15' radius | <u>s</u>) | | | Are OBL, | FACW, or FA | .С: | 100.0% | (A/B) |
| 1. 2. | | | | | | Provolone | ce Index wo | kohooti | | |
| | | | | | | | l % Cover of: | | Multiply by | v: |
| 4. | | | | | | OBL spec | | | 0 | |
| 5. | | | | | | FACW sp | ecies 30 | x 2 = | 60 | _ |
| | | | | =Total Cover | | FAC spec | | | 150 | _ |
| Herb Stratum | (Plot size: _ | 5' radius) | 20 | V | EA C) A / | FACU spe | | | 0 | _ |
| Navarretia inter Polygonum avid | | | <u>30</u> 50 | Yes Yes | FACW FAC | UPL spec Column T | | | 210 | — (B) |
| | | | | 103 | TAO | | ence Index = | | 2.63 | — ^(D) |
| 4 | | | | | | | | | | _ |
| _ | | | | | | Hydrophy | ytic Vegetati | on Indicators: | | |
| • | | | | | | X Domii | nance Test is | >50% | | |
| 7 | | | | | | | lence Index i | | | |
| 8. | | | 80 | =Total Cover | | | • | ptations ¹ (Prov or on a separa | | • |
| Woody Vine Stratu | <u>m</u> (Plo | ot size: 30' radius | <u>s</u>) | | | Proble | ematic Hydro | phytic Vegetati | on ¹ (Exp | lain) |
| 1. 2. | | | | | | | | il and wetland l urbed or proble | | / must |
| | | | | =Total Cover | | Hydrophy | | | | |
| % Bare Ground in I | Herb Stratum_ | 20 | % Cover of Biot | c Crust 0 | | Vegetation Present? | on . | X No_ | | |
| Remarks: | _ | | | | | 1 | _ | | | |
| | | | | | | | | | | |

SOIL Sampling Point: SP-440A

| | • | to the dept | | | | itor or c | onfirm the absence | of indicators.) | |
|-------------------|--|--------------|----------------------|-----------|-------------------|------------------|------------------------------|------------------------------|---------------------|
| Depth (inches) | Matrix Color (moist) | <u></u> % | | x Featur | | Loc ² | Texture | Do | marks |
| (inches) | Color (moist) | | Color (moist) | <u>%</u> | Type ¹ | LUC | | | - |
| 0-2 | 10YR 3/6 | 100 | _ | | | | Loamy/Clayey | Silt Loam | with gravel |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | - | | | | | | | - | _ |
| ¹Type: C=Cc | ncentration, D=Dep | letion RM= | -Reduced Matrix C | S=Cove | ered or C | nated S | and Grains ² Loca | ation: PL=Pore Lini | ng M-Matrix |
| | ndicators: (Applica | | | | | outed O | | rs for Problematic | • |
| Histosol | ` | | Sandy Red | | , | | | Muck (A9) (LRR C | • |
| | ipedon (A2) | | Stripped M | , , | 6) | | | Muck (A10) (LRR I | |
| Black His | | | Loamy Mu | , | , | | | Manganese Masses | - |
| Hydroge | n Sulfide (A4) | | Loamy Gle | | | | Redu | iced Vertic (F18) | - |
| Stratified | Layers (A5) (LRR C | ;) | Depleted N | latrix (F | 3) | | Red | Parent Material (F2 | 1) |
| 1 cm Mu | ck (A9) (LRR D) | | Redox Dar | | . , | | | Shallow Dark Surfa | , , |
| Depleted | Below Dark Surface | e (A11) | Depleted D | | | | X Othe | r (Explain in Remar | ks) |
| | rk Surface (A12) | | Redox Dep | ression | s (F8) | | | | |
| | ucky Mineral (S1) | 3 | | | | | | | |
| Sandy G | leyed Matrix (S4) | Indicato | rs of hydrophytic v | egetatio | n and we | tland hy | drology must be prese | ent, unless disturbed | d or problematic. |
| | .ayer (if observed): | | | | | | | | |
| Type: | Rock Restri | | | | | | | | |
| Depth (in | ches): | 2 | <u> </u> | | | | Hydric Soil Present | t? Yes | <u> </u> |
| Remarks: | | | | _ | | | | | |
| The soils are | lacking apparent red | dox feature | s, a common probl | em of ve | ernal poo | I wetlan | ds in the region. | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| | | | | | | | | | |
| - | Irology Indicators: ators (minimum of o | | ed: check all that a | nnly) | | | Secondar | ry Indicatore (minim | um of two required) |
| | Ators (Millimum or o Water (A1) | no is requil | Salt Crust | | | | | er Marks (B1) (Rive i | |
| | ter Table (A2) | | Biotic Crus | ` ' | | | | ment Deposits (B2) | • |
| Saturatio | | | Aquatic Inv | | es (B13) | | | Deposits (B3) (Rive | |
| | arks (B1) (Nonriveri | ne) | Hydrogen | | | | | nage Patterns (B10) | • |
| | t Deposits (B2) (Nor | - | Oxidized R | | | | | Season Water Table | |
| | osits (B3) (Nonriver | - | Presence of | | | _ | | fish Burrows (C8) | |
| | Soil Cracks (B6) | - | Recent Iron | n Reduc | tion in Ti | lled Soil | | ration Visible on Ae | rial Imagery (C9) |
| Inundation | on Visible on Aerial II | magery (B7 |) Thin Muck | Surface | (C7) | | Shall | ow Aquitard (D3) | |
| Water-St | ained Leaves (B9) | | Other (Exp | lain in R | emarks) | | X FAC- | Neutral Test (D5) | |
| Field Observ | ations: | | | | | | | | |
| Surface Water | er Present? Ye | es | No X | Depth (i | nches): | | | | |
| Water Table | | es | | | nches): | | | | |
| Saturation Pr | esent? Ye | es | No X | Depth (i | nches): | | Wetland Hydrolog | gy Present? Yes | <u> </u> |
| (includes cap | | | | | | | 1 | | |
| Describe Red | corded Data (stream | gauge, mo | nitoring well, aeria | photos, | previous | s inspec | tions), if available: | | |
| Pemarke: | | | | | | | | | |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/County: Wasco | | Sampling Date: 7/19/2 | 2023 |
|--|----------------------|-------------------------|--|---|------------------|
| Applicant/Owner: Savion | | | State: OR | Sampling Point: SP-4 | 440B |
| Investigator(s): Jess Taylor, Katie Pyne | | Section, Township, Ra | ange: <u>T04S, R15E</u> | | |
| Landform (hillside, terrace, etc.): Plateau | Loca | I relief (concave, conv | vex, none): Concave | Slope (%): | 0 |
| Subregion (LRR): <u>LRR B</u> Lat: 45.135530 | | Long: | 120.840005 | Datum: WGS | 84 |
| Soil Map Unit Name: Bakeoven-Condon complex, 2 to | o 20 percent slope | s | NWI classif | ication: None | |
| Are climatic / hydrologic conditions on the site typical | for this time of yea | r? Yes X | No (If no, exp | olain in Remarks.) | |
| Are Vegetation , Soil , or Hydrology | significantly distu | rbed? Are "Normal (| Circumstances" present? | Yes X No | |
| Are Vegetation, Soil, or Hydrology | naturally problem | atic? (If needed, ex | xplain any answers in Rei | marks.) | _ |
| SUMMARY OF FINDINGS – Attach site m | - | | cations, transects, | important features, | etc. |
| Hydrophytic Vegetation Present? Yes N | lo X | Is the Sampled A | Area | | |
| | lo X | within a Wetland | | No_X_ | |
| | lo X | | | | |
| Remarks: | | | | | |
| Upland representative for SP-440A. | | | | | |
| VECETATION Lies esigntific names of | nlanta | | | | |
| VEGETATION – Use scientific names of | | minant Indicator | | | |
| Tree Stratum (Plot size: 30' radius) | | pecies? Status | Dominance Test wor | rksheet: | |
| 1 | | | Number of Dominant | • | |
| 2. | | | Are OBL, FACW, or F | | _(A) |
| 3. 4. | · — — — | | Total Number of Dom Across All Strata: | inant Species 3 | (B) |
| · | =Tot | al Cover | Percent of Dominant S | - | - ^(D) |
| Sapling/Shrub Stratum (Plot size: 15' radius | | | Are OBL, FACW, or F | • | (A/B) |
| Chrysothamnus viscidiflorus | 5 | Yes UPL | | | - |
| 2 | . <u> </u> | | Prevalence Index wo | | |
| 3. | | | Total % Cover of | | |
| 4 5. | · | | | $\begin{array}{ccc} 0 & x & 1 & = & 0 \\ 0 & x & 2 & = & 0 \end{array}$ | - |
| J | 5 =Tot | al Cover | | $\frac{3}{3}$ $\times 3 = \frac{3}{3}$ $\times 3 = \frac{3}{3}$ | - |
| Herb Stratum (Plot size: 5' radius) | | | | 5 x 4 = 60 | - |
| Pseudoroegneria spicata | 40 | Yes UPL | UPL species 4 | 5 x 5 = 225 | _ |
| 2. Poa secunda | 15 | Yes FACU | | 60 (A) <u>285</u> | _(B) |
| 3. | | | Prevalence Index | = B/A = <u>4.75</u> | - |
| 4 5. | · | | Hydrophytic Vegetat | tion Indicators: | |
| 5. 6. | | | Dominance Test i | | |
| 7. | | | Prevalence Index | | |
| 8. | | | · - | aptations ¹ (Provide support | ting |
| | | al Cover | | s or on a separate sheet) | |
| Woody Vine Stratum (Plot size: 30' radius | • | | I — | ophytic Vegetation ¹ (Explai | • |
| 1. 2. | | | | oil and wetland hydrology r sturbed or problematic. | must |
| | =Tot | al Cover | · | turbed or problematic. | |
| | | | Hydrophytic Vegetation | | |
| % Bare Ground in Herb Stratum 45 % | Cover of Biotic Cr | ust 0 | Present? Yes | NoX | |
| Remarks: | | | | | |
| | | | | | |
| | | | | | |

SOIL Sampling Point: SP-440B

| Profile Desc Depth | ription: (Describe t Matrix | to the dept | | ument th x Featur | | ator or c | confirm the absence of | of indicators.) | |
|-----------------------|---|---------------|---------------------|-----------------------------|-------------------|------------------|------------------------|--|----------------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-6 | 10YR 3/3 | 100 | , | | | | Loamy/Clayey | Silt loam | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | oncentration, D=Depl | | | | | oated S | | tion: PL=Pore Lining, M=N | _ |
| - | ndicators: (Applica | ble to all L | | | oted.) | | | s for Problematic Hydric | Soils ³ : |
| Histosol | ` ' | | Sandy Red | | | | | Muck (A9) (LRR C) | |
| | ipedon (A2) | | Stripped M | | | | | Muck (A10) (LRR B) | |
| Black His | ` ' | | Loamy Mu | - | | | | Manganese Masses (F12) (| LRR D) |
| | n Sulfide (A4) | | Loamy Gle | - | | | | ced Vertic (F18) | |
| | Layers (A5) (LRR C | •) | Depleted N | , | , | | | Parent Material (F21) | |
| | ck (A9) (LRR D) | . (Δ44) | Redox Da | | | | | Shallow Dark Surface (F22 |) |
| | Below Dark Surface rk Surface (A12) | (A11) | Depleted [Redox De | | | ' | Other | (Explain in Remarks) | |
| | ucky Mineral (S1) | | Redox De | JI 6221011 | 5 (1 0) | | | | |
| | leyed Matrix (S4) | 3Indicator | rs of hydrophytic y | egetatio | n and we | etland hy | drology must be prese | nt, unless disturbed or prob | olematic. |
| | _ayer (if observed): | | , · · · · · · · · · | - 3 | | I | | , | |
| Type: | rock | | | | | | | | |
| Depth (in | nches): | 6 | | | | | Hydric Soil Present | ? Yes | No X |
| LIVEROLO | OV | | | | | | | | |
| HYDROLO | | | | | | | | | |
| _ | drology Indicators: ators (minimum of or | no is roquir | ad: chack all that | annly) | | | Sacandar | v Indicators (minimum of tu | o required) |
| - | Water (A1) | ne is require | Salt Crust | | | | <u> </u> | <u>y Indicators (minimum of tv</u> r Marks (B1) (Riverine) | <u>vo requirea)</u> |
| | ter Table (A2) | | Biotic Crus | ` ' | | | | nent Deposits (B2) (Riverir | ne) |
| Saturatio | | | Aquatic In | | es (B13) |) | | Deposits (B3) (Riverine) | , |
| | arks (B1) (Nonriveri | ne) | Hydrogen | | | | | age Patterns (B10) | |
| Sedimen | t Deposits (B2) (Non | riverine) | Oxidized F | Rhizosph | eres on l | Living R | oots (C3) Dry-S | Season Water Table (C2) | |
| Drift Dep | osits (B3) (Nonriver | ine) | Presence | of Reduc | ed Iron (| (C4) | Crayf | ish Burrows (C8) | |
| Surface S | Soil Cracks (B6) | | Recent Iro | n Reduc | tion in Ti | lled Soil | s (C6) Satur | ation Visible on Aerial Imag | ery (C9) |
| | on Visible on Aerial Ir | magery (B7) | | | | | | ow Aquitard (D3) | |
| Water-St | ained Leaves (B9) | | Other (Exp | olain in R | emarks) | | FAC- | Neutral Test (D5) | |
| Field Observ | | | | | | | | | |
| Surface Water | | | | Depth (ii | · - | | | | |
| Water Table | | | | Depth (ii | | | March 111 · · | | Ma M |
| Saturation Pr | | s | No X | Depth (ii | nches): | | Wetland Hydrolog | y Present? Yes | No X |
| (includes cap | | aguae ma | nitoring wall caris | l photos | provious | e inenca | tions) if available: | | |
| Pescine Ke | corded Data (stream | yauge, moi | moning well, aerla | ι μιιυιος, | previous | ь шѕрес | aioris), ii avallable: | | |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/County: Wasco | | Sampling Date: | 7/19/2023 |
|--|---------------------------|------------------------------------|---|-----------------------------------|------------|
| Applicant/Owner: Savion | | | State: OR | Sampling Point: | SP-442 |
| Investigator(s): Jess Taylor, Katie Pyne | | Section, Township, Ra | ange: <u>T04S, R15E</u> | | |
| Landform (hillside, terrace, etc.): Plateau | Lo | cal relief (concave, conv | vex, none): Concave | Slop | oe (%): 0 |
| Subregion (LRR): LRR B Lat: 45.13 | 2538 | Long: | 120.837636 | Datum: | WGS 84 |
| Soil Map Unit Name: Playas | | | NWI classif | ication: PEM1J | |
| Are climatic / hydrologic conditions on the site ty | pical for this time of ye | ear? Yes X | No (If no, exp | olain in Remarks.) | |
| Are Vegetation , Soil , or Hydrology | significantly dis | turbed? Are "Normal of | Circumstances" present? | |) |
| Are Vegetation, Soil, or Hydrology | | | xplain any answers in Rei | | |
| SUMMARY OF FINDINGS – Attach s | | | cations, transects, | important featu | ıres, etc. |
| Hydrophytic Vegetation Present? Yes | No X | Is the Sampled A | Area | | |
| Hydric Soil Present? Yes | No X | within a Wetland | ? Yes | No_X | |
| Wetland Hydrology Present? Yes | . No <u>X</u> | | | | |
| Remarks: The plot confirms the absence of wetland feature now planted with a Conservation Reserve Programmer. | | ands Inventory-mapped | emergent wetland. It app | ears to be a drained | d playa, |
| VEGETATION – Use scientific name | • | | | | |
| Tree Stratum (Plot size: 30' radius | | Dominant Indicator Species? Status | Dominance Test wor | rksheet | |
| 1. | , <u>70 00 00 10 1</u> | | Number of Dominant | Species That | |
| 2. | | | Are OBL, FACW, or F | - | 0 (A) |
| 3. 4. | | | Total Number of Dom Across All Strata: | | 3 (B) |
| | =T | otal Cover | Percent of Dominant | Species That | |
| Sapling/Shrub Stratum (Plot size: 15' r | | | Are OBL, FACW, or F | AC: <u>0.</u> | .0% (A/B) |
| 1. Artemisia cana | 5 | Yes FACU | December of the december | | |
| 2. 3. | | | Prevalence Index wo | | ply by: |
| 4. | | | - | | 0 |
| 5. | | | · — | | 0 |
| | 5 =T | otal Cover | FAC species |) x 3 = | 0 |
| Herb Stratum (Plot size: 5' radius |) | | FACU species 2 | 0 	 x 4 = 0 | 80 |
| Taeniatherum caput-medusae | 60 | Yes UPL | · | | 150 |
| 2. Lomatium grayi | 30 | Yes UPL | | | 530 (B) |
| 3. Achillea millefolium | 15 | No FACU | Prevalence Index | = B/A = 4.82 | |
| 4 5. | | | Hydrophytic Vegetat | ion Indicators | |
| | | | Dominance Test i | | |
| _ | | | Prevalence Index | | |
| 7. 8. | | | | aptations ¹ (Provide s | supporting |
| · | 105 =T | otal Cover | | s or on a separate s | |
| Woody Vine Stratum (Plot size: 30' r. | adius) | | Problematic Hydr | ophytic Vegetation ¹ | (Explain) |
| 1 | | | ¹ Indicators of hydric s | oil and wetland hydr | ology must |
| 2. | | | be present, unless dis | turbed or problemat | tic. |
| | =T | otal Cover | Hydrophytic | | |
| % Bare Ground in Herb Stratum 10 | % Cover of Biotic | Crust 0 | Vegetation Present? Yes | No X | |
| | 70 COVGI OI DIOLIC | 0.031 | i resent: Tes | | _ |
| Remarks: | | | | | |
| | | | | | |

SOIL Sampling Point: SP-442

| | | to the dept | | | | ator or c | onfirm the absence of | of indicators.) | | |
|--------------------------|--------------------------------------|---------------|---------------------------|-----------|-------------------|------------------|------------------------------|---|-----------------|-------------|
| Depth (inches) | Matrix Color (moist) | 0/. | | k Featur | | Loc ² | Toytura | | Pamarka | |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | LUC | Texture | | Remarks | |
| 0-12 | 10YR 4/2 | 100 | | | | | Loamy/Clayey | | Clay loam | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | <u> </u> | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹ Type: C=Cor | ncentration, D=Dep | letion RM= | Reduced Matrix C | S=Cove | ered or C | nated S | and Grains ² Loca | ation: PL=Pore | Lining M-Matr | iy |
| | ndicators: (Applica | | | | | oaica o | | s for Problema | _ | |
| Histosol (| ` | | Sandy Red | | , | | | Muck (A9) (LRI | - | |
| | pedon (A2) | | Stripped M | . , | 6) | | | Muck (A10) (LF | - | |
| Black Hist | | | Loamy Mu | cky Mine | eral (F1) | | | Manganese Mas | - | R D) |
| Hydrogen | Sulfide (A4) | | Loamy Gle | yed Mat | rix (F2) | | Redu | ced Vertic (F18 |) | - |
| Stratified | Layers (A5) (LRR C | ;) | Depleted N | 1atrix (F | 3) | | Red I | Parent Material | (F21) | |
| 1 cm Muc | k (A9) (LRR D) | | Redox Dar | k Surfac | e (F6) | | Very | Shallow Dark S | urface (F22) | |
| Depleted | Below Dark Surface | e (A11) | Depleted D | | |) | Othe | r (Explain in Rer | marks) | |
| | k Surface (A12) | | Redox Dep | ression | s (F8) | | | | | |
| | ıcky Mineral (S1) | 2 | | | | | | | | |
| Sandy Gle | eyed Matrix (S4) | ³Indicato | rs of hydrophytic ve | egetatio | n and we | etland hy | drology must be prese | ent, unless distu | rbed or problen | natic. |
| Restrictive La | ayer (if observed): | | | | | | | | | |
| Type: | Rock Restri | | | | | | | | | |
| Depth (inc | ches): | 12 | | | | | Hydric Soil Present | 1? | Yes N | 10 <u>X</u> |
| | | | | | | | | | | |
| HYDROLOG | 3Y | | | | | | | | | |
| - | rology Indicators: | | | | | | | | | |
| | ators (minimum of o | ne is require | | | | | | ry Indicators (mi | | equired) |
| Surface W | ` ' | | Salt Crust | ` , | | | | r Marks (B1) (R | | |
| | er Table (A2) | | Biotic Crus | | (D40) | | | ment Deposits (F | | |
| Saturation | ı (A3) rks (B1) (Nonriveri | ino) | Aquatic Inv Hydrogen S | | , , | | | Deposits (B3) (F lage Patterns (B | - | |
| | Deposits (B2) (Nor | - | Oxidized R | | | | | Season Water Ta | | |
| | osits (B3) (Nonriver | • | Presence of | | | • | | fish Burrows (C8 | | |
| | oil Cracks (B6) | , | Recent Iron | | | ` ' | | ation Visible on | , | (C9) |
| | n Visible on Aerial II | magery (B7 | | | | | ` ' — | ow Aquitard (D3 | | () |
| | nined Leaves (B9) | | Other (Exp | | | | FAC- | Neutral Test (D | 5) | |
| Field Observa | ations: | | | | | | | | | |
| Surface Water | r Present? Ye | es | No X | Depth (i | nches): | | | | | |
| Water Table F | Present? Ye | es | | Depth (i | nches): | | | | | |
| Saturation Pre | esent? Ye | es | No X | Depth (i | nches): | | Wetland Hydrolog | gy Present? | YesN | No X |
| (includes capi | | | | | | | | | | |
| Describe Reco | orded Data (stream | gauge, mo | nitoring well, aerial | photos. | previou | s inspec | tions), if available: | | | |
| Remarks: | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cour | nty: Wasco | | Sampling Date: | 7/19/2023 |
|--|---------------|-----------------|-----------------|--|-----------------------------------|------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Point: | SP-443A |
| Investigator(s): Jess Taylor, Katie Pyne | | Section, T | ownship, Ra | nge: <u>T04S, R15E</u> | | |
| Landform (hillside, terrace, etc.): Plateau | L | ocal relief (co | ncave, conv | ex, none): Concave | Slop | e (%): 0 |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.125470</u> | | | Long: <u>-1</u> | 20.832751 | Datum: | WGS 84 |
| Soil Map Unit Name: Condon silt loam, 2 to 12 percent sl | opes | | | NWI classifi | cation: PUSAh | |
| Are climatic / hydrologic conditions on the site typical for the site site site. | this time of | year? | Yes X | No (If no, exp | lain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologysig | nificantly d | isturbed? A | re "Normal C | Circumstances" present? | Yes X No | |
| Are Vegetation, Soil, or Hydrologyna | turally prob | lematic? (I | f needed, ex | plain any answers in Rer | narks.) | |
| SUMMARY OF FINDINGS – Attach site map | showin | g sampling | g point lo | cations, transects, | important featu | ıres, etc. |
| Hydrophytic Vegetation Present? Yes X No | | Is the | Sampled A | rea | | |
| | | | n a Wetland | | No | |
| Wetland Hydrology Present? Yes X No | | | | | | |
| Remarks: | 141 - 43 | | | | | |
| The plot is representative of an excavated livestock pone | d that is a v | vetland. | | | | |
| VEGETATION – Use scientific names of pla | nts | | | | | |
| • | Absolute | Dominant | Indicator | | | |
| ` | % Cover | Species? | Status | Dominance Test wor | | |
| 1. 2. | | | | Number of Dominant S Are OBL, FACW, or Fa | | 3 (A) |
| 3. | | | | Total Number of Domi | nant Species | |
| 4 | | Tatal Cavar | | Across All Strata: | | 3 (B) |
| Sapling/Shrub Stratum (Plot size: 15' radius) | = | Total Cover | | Percent of Dominant S Are OBL, FACW, or FA | • | 0.0% (A/B) |
| 1 | | | | 7.110 002, 7.7.011, 0.11 | | (, 4 2) |
| 2. | | | | Prevalence Index wo | rksheet: | |
| 3 | | | | Total % Cover of | Multi | ply by: |
| 4 | | | | OBL species 10 | | <u>10</u> |
| 5 | | Total Cover | | FACW species 19 FAC species 19 | | 30 30 |
| Herb Stratum (Plot size: 5' radius) | | Total Covol | | FACU species 0 | | 0 |
| Plagiobothrys leptocladus | 10 | Yes | OBL | UPL species 0 | x 5 = | 0 |
| 2. Psilocarphus brevissimus | 15 | Yes | FACW | Column Totals: 35 | | 70 (B) |
| 3. Polygonum aviculare | 10 | Yes | FAC | Prevalence Index : | = B/A = <u>2.00</u> | |
| 4 | | | | Hydrophytic Vegetat | ion Indicators: | |
| 6 | | | | X Dominance Test is | | |
| 7. | | | | X Prevalence Index | | |
| 8. | | | | | aptations ¹ (Provide : | |
| _ | 35 = | Total Cover | | | s or on a separate s | • |
| Woody Vine Stratum (Plot size: 30' radius) | | | | | phytic Vegetation ¹ | |
| 1 | | | | ¹ Indicators of hydric so be present, unless dis | • | ٠, |
| | = | Total Cover | | Hydrophytic | | |
| <u> </u> | | | | Vegetation | | |
| % Bare Ground in Herb Stratum 65 % Co | ver of Biotic | Crust 0 | | Present? Yes | No | |
| Remarks: | | | | | | |
| | | | | | | |

SOIL Sampling Point: SP-443A

| Depth | Matrix | to the dept | | x Featur | | tor or c | confirm the absence of | i indicators.) |
|--|------------------------------|-----------------|----------------------|-----------|--|------------------|-------------------------------|---|
| (inches) | Color (moist) | % | Color (moist) | % % | Type ¹ | Loc ² | Texture | Remarks |
| 0-10 | 10YR 3/2 | 95 | 7.5YR 3/4 | 5 | <u>- </u> | M | Loamy/Clayey | Clay Loam |
| 0.10 | 10111 0/2 | | 7.011071 | | <u> </u> | | <u> Louiny/Olayoy</u> | Oldy Edain |
| | | | | | | | | |
| | | · —— – | | | | | | |
| | - | · —— - | | | | | | |
| | - | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=C | oncentration, D=Dep | letion, RM= | Reduced Matrix, 0 | CS=Cove | ered or C | oated S | and Grains. ² Loca | tion: PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: (Application | able to all L | RRs, unless other | erwise n | oted.) | | Indicator | s for Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Sandy Red | | | | | Muck (A9) (LRR C) |
| | pipedon (A2) | | Stripped M | • | • | | | Muck (A10) (LRR B) |
| Black Hi | ` ' | | Loamy Mu | - | | | | Manganese Masses (F12) (LRR D) |
| | n Sulfide (A4) | | Loamy Gle | | | | | ced Vertic (F18) |
| | d Layers (A5) (LRR (| 3) | Depleted N | , | • | | | Parent Material (F21) |
| | ick (A9) (LRR D) | (8.4.4) | X Redox Da | | | | | Shallow Dark Surface (F22) |
| | d Below Dark Surface | e (A11) | Depleted [| | | | Otner | (Explain in Remarks) |
| | ark Surface (A12) | | Redox De | oression | S (F8) | | | |
| Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) 3Indicators of hydrophytic vegetation and wetland hydrology must be preserved. | | | | | nt unless disturbed or problematic | | | |
| | | | o or riyaropriyilo v | ogotatio | ii ana wo | tiana n | ydrology maat be preac | nt, unless distarbed of problematic. |
| Type: | Layer (if observed): rock | i | | | | | | |
| Depth (ir | | 10 | | | | | Hydric Soil Present | ? Yes X No |
| | | | | | | | 11,4110 00111 100011 | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | GY | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | | |
| - | cators (minimum of c | | ed; check all that a | apply) | | | Secondar | y Indicators (minimum of two required) |
| Surface | Water (A1) | | Salt Crust | (B11) | | | | Marks (B1) (Riverine) |
| High Wa | iter Table (A2) | | Biotic Crus | st (B12) | | | | nent Deposits (B2) (Riverine) |
| Saturation | on (A3) | | Aquatic In | vertebra | tes (B13) | | Drift D | Deposits (B3) (Riverine) |
| Water M | arks (B1) (Nonriver | ine) | Hydrogen | Sulfide (| Odor (C1) |) | Draina | age Patterns (B10) |
| Sedimer | nt Deposits (B2) (No | nriverine) | Oxidized F | Rhizosph | eres on l | _iving R | coots (C3) Dry-S | eason Water Table (C2) |
| | oosits (B3) (Nonrive | rine) | Presence | | | | | sh Burrows (C8) |
| | Soil Cracks (B6) | | Recent Iro | | | lled Soi | ` ' | ation Visible on Aerial Imagery (C9) |
| | on Visible on Aerial I | magery (B7) | | | , , | | | ow Aquitard (D3) |
| | tained Leaves (B9) | | Other (Exp | lain in F | Remarks) | | <u>X</u> FAC-I | Neutral Test (D5) |
| Field Obser | | | | | | | | |
| Surface Wat | | | No X | | nches): | | | |
| Water Table | | | No X | | nches): | | Watland Hudnala | Proceed Voc V |
| Saturation P | | es | No X | Depth (i | ncnes): | | wetiand Hydrolog | y Present? Yes X No |
| (includes cap | corded Data (stream | naline moi | nitoring well serie | l nhotos | nrevious | s inener | tions) if available: | |
| pesonne ive | corded Data (Stream | i gauge, iillii | moning well, aella | י טוטנט | , previous | , mopet | nonej, ii avallabie. | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | City/County: Wasco | | Sampling Date: | 7/19/2023 |
|--|-----------------------------|--|-----------------------------------|------------------|
| Applicant/Owner: Savion | | State: OR | Sampling Point: | SP-443B |
| Investigator(s): Jess Taylor, Katie Pyne | Section, Township, Rang | e: T04S, R15E | | |
| Landform (hillside, terrace, etc.): Plateau Loca | al relief (concave, convex, | none): Concave | Slope | e (%): <u>0</u> |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.125509</u> | Long: <u>-120</u> |).832757 | Datum: | WGS 84 |
| Soil Map Unit Name: Condon silt loam, 2 to 12 percent slopes | | NWI classifica | ation: None | |
| Are climatic / hydrologic conditions on the site typical for this time of year | r? Yes X | No (If no, expla | in in Remarks.) | |
| Are Vegetation, Soil, or Hydrologysignificantly distu | | cumstances" present? | Yes X No | |
| Are Vegetation, Soil, or Hydrologynaturally problem | atic? (If needed, expla | in any answers in Rema | arks.) | |
| SUMMARY OF FINDINGS – Attach site map showing s | ampling point locat | tions, transects, in | nportant featu | res, etc. |
| Hydrophytic Vegetation Present? Yes No X | Is the Sampled Area | <u></u> | | |
| Hydric Soil Present? Yes No X | within a Wetland? | Yes | No X | |
| Wetland Hydrology Present? Yes No _X | | | | |
| Remarks: | | | | |
| Upland representative for SP-443A. | | | | |
| VEGETATION – Use scientific names of plants. | | | | |
| Absolute Do | ominant Indicator | | | |
| Tree Stratum (Plot size: 30' radius) % Cover S | | Dominance Test works | | |
| 2. | | Number of Dominant Sp Are OBL, FACW, or FAC | |) (A) |
| 3. | | Total Number of Domina | | ` ′ |
| 4. | | Across All Strata: | 1 | (B) |
| | | Percent of Dominant Sp | | \^(|
| Sapling/Shrub Stratum (Plot size: 15' radius) 1. | | Are OBL, FACW, or FAC | C: 0.0 |) <u>%</u> (A/B) |
| 2. | | Prevalence Index work | sheet: | |
| 3. | | Total % Cover of: | Multip | ly by: |
| 4. | | OBL species 0 | x 1 =(| |
| 5 | | FACW species 0 | x 2 = 0 | |
| Herb Stratum (Plot size: 5' radius) | | FAC species 0 FACU species 0 | x 3 = 0 x 4 = 0 | |
| 1. Taeniatherum caput-medusae 100 | | UPL species 100 | | |
| 2. | | Column Totals: 100 | | |
| 3. | | Prevalence Index = | B/A = 5.00 | |
| 4 | —— —— | ** I Lode Manatatio | | |
| 5 | | Hydrophytic Vegetatio Dominance Test is > | | |
| 7. | —— — I · | Prevalence Index is | | |
| 8. | l : | Morphological Adap | otations ¹ (Provide si | |
| | al Cover | | or on a separate sh | , |
| Woody Vine Stratum (Plot size: 30' radius) | - | Problematic Hydrop | , | . , |
| 1 | | ¹ Indicators of hydric soil be present, unless distu | | |
| | ol Cover | Hydrophytic | ibed of probleman | J. |
| | | Vegetation | | |
| % Bare Ground in Herb Stratum 0 % Cover of Biotic Cr | | Present? Yes_ | NoX | |
| Remarks: | | | | |
| | | | | |

SOIL Sampling Point: SP-443B

| Profile Descr Depth | iption: (Describe t Matrix | o the depth | | ument th x Featur | | itor or o | confirm the absence of | of indicators.) |
|------------------------|--|---------------|---------------------|----------------------|-------------------|------------------|---------------------------------|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-16 | 10YR 3/3 | 100 | , | | | | Loamy/Clayey | Silt Loam |
| | | | | | | | , , . , . , . , . , . , . , . , | |
| | | | | | | | | |
| <u></u> | | | | | | | | |
| <u></u> | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | ncentration, D=Depl | | | | | oated S | Sand Grains. ² Loca | ation: PL=Pore Lining, M=Matrix. |
| Hydric Soil Ir | idicators: (Applica | ble to all LF | RRs, unless othe | erwise n | oted.) | | Indicator | s for Problematic Hydric Soils ³ : |
| Histosol (| A1) | | Sandy Re | dox (S5) | | | 1 cm | Muck (A9) (LRR C) |
| Histic Epip | oedon (A2) | | Stripped N | 1atrix (Se | 5) | | 2 cm | Muck (A10) (LRR B) |
| Black Hist | ` ' | | Loamy Mu | icky Mine | eral (F1) | | | Manganese Masses (F12) (LRR D) |
| | Sulfide (A4) | | Loamy Gle | eyed Mat | trix (F2) | | Redu | iced Vertic (F18) |
| | Layers (A5) (LRR C |) | Depleted I | , | , | | | Parent Material (F21) |
| | k (A9) (LRR D) | | Redox Da | | ` ' | | | Shallow Dark Surface (F22) |
| | Below Dark Surface | (A11) | Depleted I | | . , | | Othe | r (Explain in Remarks) |
| | k Surface (A12) | | Redox De | pression | s (F8) | | | |
| | icky Mineral (S1) | 3, ,, , | | | | | | |
| | eyed Matrix (S4) | Indicators | s of hydrophytic v | egetatio/ | n and we | tland hy | ydrology must be prese | ent, unless disturbed or problematic. |
| | ayer (if observed): | | | | | | | |
| Type: | | | _ | | | | | |
| Depth (inc | ches): | | _ | | | | Hydric Soil Present | <u>t? Yes No X</u> |
| | | | | | | | | |
| HYDROLOG | | | | | | | | |
| _ | rology Indicators: ators (minimum of or | aa ia raauira | d: abook all that | annlu) | | | Cacanda | ry Indicators (minimum of two required) |
| Surface W | • | ie is require | Salt Crust | | | | | ry marks (B1) (Riverine) |
| | er Table (A2) | | Biotic Crus | , | | | | ment Deposits (B2) (Riverine) |
| Saturation | | | Aquatic In | | tes (B13) | | | Deposits (B3) (Riverine) |
| | rks (B1) (Nonriveri i | ne) | Hydrogen | | | | | nage Patterns (B10) |
| | Deposits (B2) (Non | - | Oxidized F | | | | | Season Water Table (C2) |
| | osits (B3) (Nonriver | - | Presence | | | _ | · · · — · | fish Burrows (C8) |
| | oil Cracks (B6) | • | Recent Iro | n Reduc | tion in Ti | lled Soi | ls (C6) Satur | ration Visible on Aerial Imagery (C9) |
| Inundation | n Visible on Aerial Ir | nagery (B7) | Thin Muck | Surface | (C7) | | Shall | ow Aquitard (D3) |
| Water-Sta | ined Leaves (B9) | | Other (Exp | olain in R | Remarks) | | FAC- | Neutral Test (D5) |
| Field Observa | ations: | | | | | | | |
| Surface Water | r Present? Yes | s | No X | Depth (i | nches): | | | |
| Water Table F | Present? Yes | s | No X | Depth (i | ′ - | | | |
| Saturation Pre | | s | No X | Depth (i | nches): | | Wetland Hydrolog | gy Present? Yes No X |
| (includes capi | | | | | | | | |
| Describe Reco | orded Data (stream | gauge, mon | itoring well, aeria | l photos | , previous | s inspec | ctions), if available: | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cour | nty: Wasco | | Sampling Date | e: <u>7/19/2023</u> |
|---|------------------|----------------|----------------|-----------------------------|--|---------------------|
| Applicant/Owner: Savion | | | | State: OR | Sampling Poin | nt: SP-445A |
| Investigator(s): Jess Taylor, Katie Pyne | | _Section, T | ownship, Ran | ige: T04S, R15E | | |
| Landform (hillside, terrace, etc.): Plateau | Lo | cal relief (co | ncave, conve | x, none): Concave | <u> </u> | lope (%): 0 |
| Subregion (LRR): <u>LRR B</u> Lat: <u>45.110885</u> | | | Long:12 | 20.832103 | Datum | n: WGS 84 |
| Soil Map Unit Name: Condon-Bakeoven complex, 2 to 2 | 20 percent slo | pes | | | ssification: PUSAh | <u> </u> |
| Are climatic / hydrologic conditions on the site typical for | | | Yes X | No (If no, | explain in Remarks. |) |
| Are Vegetation , Soil , or Hydrology si | ignificantly dis | turbed? A | re "Normal Ci | rcumstances" preser | | |
| Are Vegetation, Soil, or Hydrologyn | | | | lain any answers in I | | |
| SUMMARY OF FINDINGS – Attach site ma | | | | - | | atures, etc. |
| Hydrophytic Vegetation Present? Yes X No | | Is the | Sampled Are | ea | | |
| | X | | a Wetland? | | (No | |
| Wetland Hydrology Present? Yes X No | | | | | | |
| Remarks: | | • | | | | |
| The plot is representative of wetland conditions in an exwith hydrophytes and has wetland hydrology suggestin | | | The feature is | lacking obvious hyd | ric soils, however is | dominated |
| VEGETATION – Use scientific names of pl | ants. | | | | | |
| <u>Tree Stratum</u> (Plot size: 30' radius) | | Dominant | Indicator | Dominance Test v | wa who ho a to | |
| 1. | % Cover | Species? | Status | Number of Domina | | |
| 2. | | | | Are OBL, FACW, o | | 2 (A) |
| 3. | | | | Total Number of Do | ominant Species | |
| 4 | | | | Across All Strata: | _ | 2 (B) |
| Ocalian/Ohark Olaskara (Plataina Affarailian) | =T | otal Cover | | Percent of Domina | | 400 00/ /A/D) |
| Sapling/Shrub Stratum (Plot size: 15' radius) 1. | | | | Are OBL, FACW, o | r FAC: | 100.0% (A/B) |
| 2. | | | | Prevalence Index | worksheet | |
| 3. | | | , | Total % Cove | | ultiply by: |
| 4. | | | | OBL species | 0 x 1 = | 0 |
| 5 | | | | FACW species | 35 x 2 = | 70 |
| | =T | otal Cover | | FAC species | 5 x 3 = | 15 |
| Herb Stratum (Plot size: 5' radius) | 20 | Voo | EA C\A/ | FACU species | 5 x 4 = | 20 |
| Navarretia intertexta Taeniatherum caput-medusae | 10 | Yes No | UPL | UPL species Column Totals: | 10 x 5 = 55 (A) | 50 155 (B) |
| 3. Poa bulbosa | 5 | No | FACU | Prevalence Inde | | .82 |
| 4. Deschampsia danthonioides | 15 | Yes | FACW | | | |
| 5. Polygonum aviculare | 5 | No | FAC | Hydrophytic Vege | tation Indicators: | |
| 6 | | | | X Dominance Te | | |
| 7 | | | | Prevalence Inc | | |
| 8 | | otal Cover | | | Adaptations ¹ (Providarks or on a separat | |
| Woody Vine Stratum (Plot size: 30' radius) | 55=T | otal Cover | | | ydrophytic Vegetatio | , |
| 1 | | | | | c soil and wetland h | |
| 2. | | | | | disturbed or probler | |
| | =T | otal Cover | | Hydrophytic | | |
| | | | | Vegetation | | |
| | over of Biotic | Crust 0 | _ | Present? Y | esX No | |
| Remarks: | | | | | | |
| | | | | | | |

SOIL Sampling Point: SP-445A

| Profile Descripe Depth | ription: (Describe Matrix | to the depth | | iment th x Featur | | ator or c | confirm the absenc | e of indicators | .) | |
|----------------------------|--|----------------|-------------------------|-----------------------------|-------------------|------------------|------------------------|------------------------------------|-----------------|-------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks | |
| 0-3 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | _ | Silt Loam | |
| | 101110/2 | | | | | | <u> Louiny, Olayoy</u> | | <u> </u> | |
| | | | | | | | - | | | |
| | | | _ | | | | | _ | | |
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| | | · —— — | | | | | | | | |
| | | | | | | | - | | | |
| | | | | | | | | _ | | |
| | ncentration, D=Dep | | | | | oated S | | cation: PL=Po | | |
| - | ndicators: (Applica | able to all Li | | | otea.) | | | tors for Proble | - | SOIIS": |
| Histosol (| • | | Sandy Red | . , | ., | | | m Muck (A9) (L | • | |
| | pedon (A2) | | Stripped M | | | | | m Muck (A10) (| - | DD D) |
| Black His | ` ' | | Loamy Mu | | | | | n-Manganese N | , , , | _אא ט) |
| | Sulfide (A4) | ~\ | Loamy Gle | • | | | | duced Vertic (F d Parent Materi | , | |
| | Layers (A5) (LRR 0 ck (A9) (LRR D) | •) | Depleted N Redox Dar | | | | | ry Shallow Dark | ` , | |
| | Below Dark Surface | o (A11) | Depleted D | | | | | ner (Explain in F | ` ' | 1 |
| | rk Surface (A12) | 5 (ATT) | Redox Dep | | | ' | | iei (Expiaiii iii i | (emarks) | |
| | ucky Mineral (S1) | | RCGOX DC | 710331011 | 3 (1 0) | | | | | |
| | eyed Matrix (S4) | 3Indicator | s of hydrophytic v | egetatio | n and we | etland hy | drology must be pre | esent, unless dis | sturbed or prob | lematic. |
| | ayer (if observed): | | | | | Ī | | | · · | |
| Type: | Rock Restr | | | | | | | | | |
| Depth (in | | 3 | _ | | | | Hydric Soil Prese | ent? | Yes | No X |
| Hydrologically the region. | /, the feature is simi | lar to a vern | al pool, and the so | oils are la | acking ap | pparent | redox features, a co | mmon problem | of vernal pool | wetlands in |
| HYDROLO | GY | | | | | | | | | |
| Wetland Hyd | rology Indicators: | | | | | | | | | |
| | ators (minimum of o | ne is require | | | | | | dary Indicators (| - | o required) |
| | Vater (A1) | | Salt Crust | ` ' | | | | ater Marks (B1) | | · |
| | er Table (A2) | | Biotic Crus | | (D.10) | | | diment Deposits | | e) |
| Saturation | ` ' | in a \ | Aquatic Inv Hydrogen | | | | | ft Deposits (B3) | - | |
| | arks (B1) (Nonriver i t Deposits (B2) (No i | - | Oxidized R | | | | | ainage Patterns y-Season Wate | | |
| | osits (B3) (Nonrive) | - | Presence of | | | • | · · · — · | ayfish Burrows (| | |
| | Soil Cracks (B6) | ilie) | Recent Iro | | | ` ' | | turation Visible | | ery (C9) |
| | n Visible on Aerial I | magery (B7) | | | | 1100 0011 | • • | allow Aquitard (| - | ory (Oo) |
| | ained Leaves (B9) | magory (Dr) | Other (Exp | | | | | C-Neutral Test | | |
| Field Observ | | | | | | | <u> </u> | | () | |
| Surface Wate | | es | No X | Depth (ii | nches): | | | | | |
| Water Table I | | | | Depth (ii | ′ - | | | | | |
| Saturation Pro | | | | Depth (ii | · - | | Wetland Hydro | logy Present? | Yes X | No |
| (includes cap | | | | | · - | | | | | |
| | orded Data (stream | gauge, mor | nitoring well, aeria | l photos, | previous | s inspec | tions), if available: | | | |
| Remarks: | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | C | ity/County: Wasco | | Sampling Date: | 7/19/2023 |
|--|---------------------|----------------------|--|---|------------|
| Applicant/Owner: Savion | | | State: OR | Sampling Point: | SP-445B |
| Investigator(s): Jess Taylor, Katie Pyne | Se | ection, Township, Ra | inge: <u>T04S, R15E</u> | | |
| Landform (hillside, terrace, etc.): Plateau | Local r | elief (concave, conv | ex, none): Concave | Slop | e (%): 0 |
| Subregion (LRR): LRR B Lat: 45.110897 | | Long:1 | 120.832130 | Datum: | WGS 84 |
| Soil Map Unit Name: Condon-Bakeoven complex, 2 to 20 | percent slopes | | NWI classi | fication: None. | |
| Are climatic / hydrologic conditions on the site typical for the | is time of year? | Yes X | No (If no, ex | plain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologysign | nificantly disturbe | ed? Are "Normal C | Circumstances" present? | Yes X No | |
| Are Vegetation, Soil, or Hydrologynatu | urally problemat | ic? (If needed, ex | plain any answers in Re | marks.) | |
| SUMMARY OF FINDINGS – Attach site map | showing sa | mpling point lo | cations, transects, | important featu | ıres, etc. |
| Hydrophytic Vegetation Present? Yes No | Х | Is the Sampled A | rea | | |
| Hydric Soil Present? Yes No | Χ | within a Wetland | ? Yes | No X | |
| Wetland Hydrology Present? Yes No | X | | | | |
| Remarks: | | | | | |
| Upland representative for SP-445A. | | | | | |
| VEGETATION – Use scientific names of plar | nts. | | | | |
| | | inant Indicator | | | |
| Tree Stratum (Plot size: 30' radius) % 1. | 6 Cover Spe | cies? Status | Dominance Test wo Number of Dominant | | |
| 2. | | | Are OBL, FACW, or F | | 0 (A) |
| 3. | | | Total Number of Dom | ninant Species | |
| 4 | | | Across All Strata: | | 2 (B) |
| Sapling/Shrub Stratum (Plot size: 15' radius) | =Total | Cover | Percent of Dominant Are OBL, FACW, or F | • | .0% (A/B) |
| 1 | | | Are OBL, I AGW, OF I | <u> </u> | (A/B) |
| 2. | | | Prevalence Index we | orksheet: | |
| 3. | | | Total % Cover o | f: Multi | ply by: |
| 4 | | | | 0 x 1 = | 0 |
| 5 | =Total | Cover | | 0 x 2 = 0 x 3 = | 0 |
| Herb Stratum (Plot size: 5' radius) | | 00101 | | | 60 |
| 1. Poa bulbosa | 40 Y | es FACU | UPL species 4 | 10 x 5 = 2 | 200 |
| 2. Taeniatherum caput-medusae | 40 Y | es UPL | | `` | 860 (B) |
| 3 | | | Prevalence Index | = B/A = 4.50 | |
| 4 | | | Hydrophytic Vegeta | tion Indicators: | |
| 6. | | | Dominance Test | | |
| 7. | | | Prevalence Index | c is ≤3.0 ¹ | |
| 8 | | | | laptations ¹ (Provide | |
| - (Diet sine) (20) and its a | 80 =Total | Cover | | ks or on a separate s cophytic Vegetation ¹ | • |
| Woody Vine Stratum (Plot size: 30' radius) 1. | | | ¹ Indicators of hydric s | · · · | |
| 2. | | | be present, unless dis | , | 0, |
| | =Total | Cover | Hydrophytic | | |
| W Barra Corona d'a Harb Otras | and Disting | | Vegetation | | |
| | er of Biotic Crus | t <u>0</u> | Present? Yes | No_X | _ |
| Remarks: | | | | | |
| | | | | | |

SOIL Sampling Point: SP-445B

| Profile Desci Depth | ription: (Describe t Matrix | to the dept | | ıment tl x Featur | | ator or o | confirm the absence of | of indicators.) | |
|------------------------|-----------------------------------|------------------------|------------------------------------|-----------------------------|-------------------|------------------|------------------------|--|-----------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-6 | 10YR 3/3 | 100 | (, , , , | | | | Loamy/Clayey | Silt Loam | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | ncentration, D=Depl | | | | | oated S | | tion: PL=Pore Lining, M=Matr | _ |
| _ | ndicators: (Applica | ble to all L | | | oted.) | | | s for Problematic Hydric Soi | Is": |
| Histosol (| • | | Sandy Red | | 2) | | | Muck (A40) (LRR C) | |
| Black His | pedon (A2) | | Stripped M | | | | | Muck (A10) (LRR B) | 5 D/ |
| | n Sulfide (A4) | | Loamy Mu Loamy Gle | - | | | | Manganese Masses (F12) (LRI ced Vertic (F18) | χυ) |
| | Layers (A5) (LRR C | 3 | Depleted N | | | | | Parent Material (F21) | |
| | ck (A9) (LRR D) | · / | Redox Dar | , | , | | | Shallow Dark Surface (F22) | |
| | Below Dark Surface | e (A11) | Depleted D | | ` ' |) | | (Explain in Remarks) | |
| l — · | rk Surface (A12) | | Redox Dep | | | | | () | |
| | ucky Mineral (S1) | | ' | | , | | | | |
| Sandy GI | eyed Matrix (S4) | ³ Indicator | rs of hydrophytic v | egetatio | n and we | etland h | ydrology must be prese | nt, unless disturbed or problen | natic. |
| Restrictive L | ayer (if observed): | | | | | | | | |
| Type: | Rock Restri | | | | | | | | |
| Depth (in | ches): | 6 | | | | | Hydric Soil Present | ? Yes N | lo <u>X</u> |
| | | | | | | | | | |
| HYDROLO | | | | | | | | | |
| - | rology Indicators: | :_ | | | | | 0 | la d'a - (a - | |
| | ators (minimum of o Vater (A1) | ne is require | ed; cneck all that a Salt Crust | | | | <u> </u> | y Indicators (minimum of two r | <u>equirea)</u> |
| | er Table (A2) | | Biotic Crust | ` ' | | | | r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) | |
| Saturation | | | Aquatic Inv | | es (B13) | ١ | | Deposits (B3) (Riverine) | |
| | arks (B1) (Nonriveri | ne) | Hydrogen | | , , | | | age Patterns (B10) | |
| | Deposits (B2) (Nor | • | Oxidized R | | | | | Season Water Table (C2) | |
| Drift Depo | osits (B3) (Nonriver | ine) | Presence of | of Reduc | ed Iron (| (C4) | Crayf | ish Burrows (C8) | |
| | Soil Cracks (B6) | | Recent Iro | n Reduc | tion in Ti | lled Soi | ls (C6) Satur | ation Visible on Aerial Imagery | (C9) |
| Inundatio | n Visible on Aerial Ir | magery (B7) |)Thin Muck | Surface | (C7) | | Shalle | ow Aquitard (D3) | |
| Water-Sta | ained Leaves (B9) | | Other (Exp | lain in R | temarks) | | FAC- | Neutral Test (D5) | |
| Field Observ | | | | | | | | | |
| Surface Wate | | s | | Depth (i | · - | | | | |
| Water Table I | | | | | nches): _ | | l | a v | |
| Saturation Pro | | s | No X | Depth (i | nches): | | Wetland Hydrolog | gy Present? Yes N | 10 <u>X</u> |
| (includes cap | • • • | ~~ | nitaring wall caria | Inhataa | n rovious | a inana | rtions) if availables | | |
| Describe Kec | orded Data (stream | gauge, mor | moning well, aerla | PHOTOS | , previous | ь шърес | Suoris), ii avallable: | | |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | (| City/County: Wasco | | Sampling Date: | 7/19/2023 |
|--|---------------------|-------------------------------|---|---|-----------------|
| Applicant/Owner: Savion | | | State: OR | Sampling Point: | SP-446 |
| Investigator(s): Jess Taylor, Katie Pyne | Se | ection, Township, Ra | ange: <u>T04S, R15E</u> | | |
| Landform (hillside, terrace, etc.): Plateau | Local ı | relief (concave, conv | vex, none): Concave | Slop | oe (%): 0 |
| Subregion (LRR): LRR B Lat: 45.105598 | | Long: - | 120.835641 | Datum: | WGS 84 |
| Soil Map Unit Name: Condon-Bakeoven complex, 2 to 2 | 0 percent slopes | | NWI classifi | cation: PUSAh | |
| Are climatic / hydrologic conditions on the site typical for | this time of year? | Yes X | No (If no, exp | lain in Remarks.) | |
| Are Vegetation, Soil, or Hydrologysi | gnificantly disturb | ed? Are "Normal (| Circumstances" present? | Yes X No | · |
| Are Vegetation, Soil, or Hydrologyna | aturally problemat | ic? (If needed, ex | xplain any answers in Rer | narks.) | |
| SUMMARY OF FINDINGS – Attach site map | showing sa | mpling point lo | cations, transects, | important featu | ıres, etc. |
| Hydrophytic Vegetation Present? Yes X No | | Is the Sampled A | rea | | |
| | X | within a Wetland | ? Yes | No_X | |
| Wetland Hydrology Present? Yes No | X | | | | |
| Remarks: The plot confirms there is no wetland as indicated in the location. A lack of soils and hydrology indicators indicated. | | , | | nce of a freshwater | pond at the |
| VEGETATION – Use scientific names of pla | | | | | |
| <u>Tree Stratum</u> (Plot size: 30' radius) | | ninant Indicator cies? Status | Dominance Test wor | kehoot: | |
| 1. | 70 COVEI OPE | cies: Status | Number of Dominant S | | |
| 2. | | | Are OBL, FACW, or FA | • | 1 (A) |
| 3 | | | Total Number of Domi | nant Species | |
| 4 | =Total | Cavar | Across All Strata: | | 1 (B) |
| Sapling/Shrub Stratum (Plot size: 15' radius) | =10(a) | Cover | Percent of Dominant S Are OBL, FACW, or FA | • | 0.0% (A/B) |
| 1 | | | ,, | | (**=) |
| 2. | | | Prevalence Index wo | rksheet: | |
| 3 | | | Total % Cover of | | iply by: |
| 4 5. | | | OBL species 0 | | 0 |
| J | =Total | Cover | FAC species 11 | | <u>0</u> 345 |
| Herb Stratum (Plot size: 5' radius) | | | FACU species 0 | x 4 = | 0 |
| Plantago lanceolata | 100 Y | es FAC | UPL species 0 | | 0 |
| 2. Leymus cinereus | 15 <u>1</u> | No FAC | Column Totals: 11 | | 345 (B) |
| 3 4. | | | Prevalence Index : | = B/A = <u>3.00</u> | |
| 5. | | | Hydrophytic Vegetat | ion Indicators: | |
| 6. | | | X Dominance Test is | s >50% | |
| 7 | | | Prevalence Index | | |
| 8 | | | | aptations ¹ (Provide s s or on a separate s | |
| Woody Vine Stratum (Plot size: 30' radius) | 115 =Total | Cover | | ophytic Vegetation ¹ | • |
| 1 | | | ¹ Indicators of hydric so | | |
| 2. | | | be present, unless dis | • | 0, |
| | =Total | Cover | Hydrophytic | | |
| % Bare Ground in Herb Stratum 0 % Co | over of Biotic Crus | st 0 | Vegetation Present? Yes | X No | |
| Remarks: | over or brotte cite | <u> </u> | Present? Yes | | _ |
| indinars. | | | | | |
| | | | | | |

SOIL Sampling Point: SP-446

| Depth | Matrix | o me depu | | x Featur | | itoi oi t | confirm the absence | or muicators. | ., | |
|---------------|---|------------------------|------------------------|----------|-------------------|------------------|-----------------------|--|----------------|-------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks | |
| 0-16 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | | Silt Loam | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| 1- 0.0 | | | | | | | | | | |
| | oncentration, D=Depl | | | | | oated S | | ation: PL=Poi | | |
| Histosol | Indicators: (Applica | Die to all Li | | | | | | | - | Solis : |
| | ipedon (A2) | | Sandy Re- | , , | | | | n Muck (A9) (L n Muck (A10) (| - | |
| | | | | | | | | Manganese M | - | (I RR D) |
| | Black Histic (A3)Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2) | | | | | | uced Vertic (F | | (LIXIX D) | |
| | l Layers (A5) (LRR C | :) | Depleted I | • | , , | | | Parent Materi | , | |
| | ck (A9) (LRR D) | , | Redox Da | ` | , | | | Shallow Dark | , | 2) |
| | Below Dark Surface | e (A11) | Depleted I | | | | | er (Explain in F | | , |
| | rk Surface (A12) | , | Redox De | | | | | ` ' | , | |
| Sandy M | ucky Mineral (S1) | | | | | | | | | |
| Sandy G | leyed Matrix (S4) | ³ Indicator | s of hydrophytic v | egetatio | n and we | tland hy | drology must be pres | ent, unless dis | sturbed or pro | blematic. |
| Restrictive I | _ayer (if observed): | | | | | | | | | |
| Type: | | | _ | | | | | | | |
| Depth (ir | nches): | | | | | | Hydric Soil Presen | t? | Yes | No_X |
| | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | |
| Wetland Hyd | drology Indicators: | | | | | | | | | |
| - | cators (minimum of o | ne is require | | | | | | ry Indicators (| | wo required |
| | Water (A1) | | Salt Crust | ` ' | | | | er Marks (B1) | ` , | |
| | ter Table (A2) | | Biotic Crus | | (D40) | | | ment Deposits | | ne) |
| Saturatio | ` ' | no\ | Aquatic In Hydrogen | | ` ' | | | Deposits (B3) | • | |
| | arks (B1) (Nonriveri It Deposits (B2) (Nor | - | Oxidized F | | • | | | nage Patterns Season Water | | |
| | osits (B3) (Nonriver | | Presence | | | _ | | fish Burrows (| | |
| | Soil Cracks (B6) | , | Recent Iro | | | , | <u> </u> | ration Visible | , | aerv (C9) |
| | on Visible on Aerial Ir | magery (B7) | | | | | | low Aquitard (| | J - 7 (7 |
| | tained Leaves (B9) | 3 , (, | Other (Exp | | , , | | | -Neutral Test | | |
| Field Observ | vations: | | | | | | | | · · · | |
| Surface Water | er Present? Ye | S | No X | Depth (i | nches): | | | | | |
| Water Table | Present? Ye | s | No X | Depth (i | nches): | | | | | |
| Saturation Pr | resent? Ye | s | No X | Depth (i | nches): | | Wetland Hydrolo | gy Present? | Yes | No X |
| (includes cap | oillary fringe) | | | | | | | | | |
| Describe Rec | corded Data (stream | gauge, mor | nitoring well, aeria | l photos | , previous | s inspec | tions), if available: | | | |
| Remarks: | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cou | nty: Wasco | | | Sampling Date | e: <u>7/19</u> | 9/2023 |
|---|---------------------|-------------------|---------------------|-------------------------|----------------------------|------------------------------|----------------|-------------|
| Applicant/Owner: Savion | | | | State: | OR | Sampling Poir | nt: <u>S</u> ! | P-448 |
| Investigator(s): Jess Taylor, Katie Pyne | | Section, T | ownship, Ra | nge: <u>T04S, I</u> | R15E | | | |
| Landform (hillside, terrace, etc.): Plateau | L | ocal relief (co | ncave, conv | ex, none): (| Concave | s | slope (%) |): <u> </u> |
| Subregion (LRR): LRR B Lat: 45.105598 | | | Long:1 | 20.835641 | | Datun | n: WG | S 84 |
| Soil Map Unit Name: Condon-Bakeoven complex, 2 to | 20 percent sl | opes | | | NWI classifica | ation: PEM1J | | |
| Are climatic / hydrologic conditions on the site typical f | | | Yes X | No | (If no, expla | in in Remarks. | .) | |
| Are Vegetation, Soil, or Hydrology | significantly d | isturbed? A | re "Normal C | | | Yes X | | |
| Are Vegetation, Soil, or Hydrology | | | | plain any ansv | | | | _ |
| SUMMARY OF FINDINGS – Attach site m | | | | • | | | atures | , etc. |
| Hydrophytic Vegetation Present? Yes N | lo X | Is the | Sampled A | rea | | | | |
| | lo X | | n a Wetland | | Yes | No X | | |
| Wetland Hydrology Present? Yes N | lo X | | | | | | | |
| Remarks: The plot confirms the absence of wetland characteris drained playa, now planted with a Conservation Rese | | | Inventory-ma | pped emerge | nt wetland. It | appears to be | a forme | r |
| VEGETATION – Use scientific names of p | | | | | | | | |
| <u>Tree Stratum</u> (Plot size: 30' raduis) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance | e Test works | shoot: | | |
| 1. | 70 COVE | opecies: | Status | | Dominant Sp | | | |
| 2. | | | | | ACW, or FAC | | 0 | (A) |
| 3. 4. | | | | Total Numb | oer of Domina Strata: | ant Species | 2 | (B) |
| Sapling/Shrub Stratum (Plot size: 15' radius 1. | | Total Cover | | | Dominant Sp ACW, or FAC | | 0.0% | (A/B) |
| 2 | | | | | e Index work | sheet: | | |
| 3. | | | | | % Cover of: | | lultiply by | y: |
| 4 | | | | OBL specie FACW spec | | x 1 = x 2 = | | _ |
| J | | Total Cover | | FAC specie | | x3= | 0 | _ |
| Herb Stratum (Plot size: 5' radius) | | | | FACU spec | - | x 4 = | 80 | _ |
| 1. Triticum aestivum | 30 | Yes | UPL | UPL specie | es 100 | x 5 = | 500 | _ |
| 2. Poa bulbosa | 20 | No | FACU | Column To | tals: 120 | (A) | 580 | (B) |
| 3. Taeniatherum caput-medusae | 50 | Yes | UPL | Prevale | nce Index = | B/A = <u>4</u> | .83 | _ |
| Bromus tectorum Bromus japanicus | 10 | No No | UPL | Lly education by et | ia Vanatatia | n Indiantara: | | |
| | 10 | No | UPL | | ance Test is a | n Indicators: | | |
| 7. | | | | | ence Index is | | | |
| 8. | | | | | | tations ¹ (Provid | de suppo | orting |
| | 120 = | Total Cover | | | | or on a separa | | - |
| Woody Vine Stratum (Plot size: 30' radius |) | | | Probler | matic Hydrop | hytic Vegetation | on¹ (Expl | lain) |
| 1. 2. | | | | | • | and wetland h | , ,, | / must |
| | = | Total Cover | | Hydrophyt | | | | |
| % Bare Ground in Herb Stratum 0 % | Cover of Biotic | Crust 0 | | Vegetation Present? | Yes | No | X | |
| Remarks: | | | | | | · · · · · · | | |
| | | | | | | | | |

SOIL Sampling Point: SP-448

| Profile Desc Depth | ription: (Describe to Matrix | the depth | | iment th x Featur | | tor or o | confirm the absence of | of indicators.) | |
|--|---|--------------|----------------------|-----------------------------|------------------------|------------------|------------------------|---|--------|
| (inches) | Color (moist) | % (| Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
| 0-16 | 10YR 4/2 | 100 | , , | | | | Loamy/Clayey | Clay | |
| | | | | | | | | | |
| | | | | | | | | - | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | oncentration, D=Depleti | | | | | oated S | | tion: PL=Pore Lining, M=Matrix. | |
| _ | Indicators: (Applicable | e to all LRI | | | oted.) | | | s for Problematic Hydric Soils ³ : | |
| Histosol | ` ' | | Sandy Red | | • • | | | Muck (A9) (LRR C) | |
| | pipedon (A2) | | Stripped M | | | | | Muck (A10) (LRR B) | |
| Black His | ` , | | Loamy Mu | | | | | Manganese Masses (F12) (LRR D | ") |
| | n Sulfide (A4) I Layers (A5) (LRR C) | | Loamy Gle Depleted N | | | | | ced Vertic (F18) Parent Material (F21) | |
| | ck (A9) (LRR D) | | Redox Dar | , | , | | | Shallow Dark Surface (F22) | |
| | Below Dark Surface (| 411) | Depleted D | | | | | (Explain in Remarks) | |
| | rk Surface (A12) | , | Redox Dep | | | | | (Explain in Normanio) | |
| | lucky Mineral (S1) | | | | - () | | | | |
| | | 3Indicators | of hydrophytic v | egetatio | n and we | tland hy | drology must be prese | ent, unless disturbed or problemati | ic. |
| Restrictive L | _ayer (if observed): | | | | | | | | |
| Type: | , | | | | | | | | |
| Depth (in | nches): | | _ | | | | Hydric Soil Present | ? Yes No | Χ |
| Soil is damp | | | | | | | | | |
| | drology Indicators: | | | | | | | | |
| _ | cators (minimum of one | is required | ; check all that a | (ylqqı | | | Secondar | y Indicators (minimum of two requ | uired) |
| Surface | Water (A1) | | Salt Crust | (B11) | | | | r Marks (B1) (Riverine) | |
| High Wa | ter Table (A2) | | Biotic Crus | t (B12) | | | Sedir | nent Deposits (B2) (Riverine) | |
| Saturation | on (A3) | | Aquatic Inv | ertebrat | es (B13) | | Drift [| Deposits (B3) (Riverine) | |
| | arks (B1) (Nonriverine | - | Hydrogen | | | | | age Patterns (B10) | |
| | t Deposits (B2) (Nonriv | - | Oxidized R | | | - | , , <u> </u> | Season Water Table (C2) | |
| | oosits (B3) (Nonriverine | e) | Presence of | | , | , | | ish Burrows (C8) | |
| | Soil Cracks (B6) | (DZ) | Recent Iron | | | lled Soil | | ation Visible on Aerial Imagery (C | 9) |
| | on Visible on Aerial Ima tained Leaves (B9) | igery (B7) | Thin Muck Other (Exp | | | | | ow Aquitard (D3) Neutral Test (D5) | |
| water-st | | | Other (Exp | iain in R | emarks) | | FAC- | Neutrai Test (D5) | |
| E: 1.01 | , | | | | | | | | |
| Field Observ | vations: | | No. V | Donth (i | ooboo): | | | | |
| Surface Water | vations: er Present? Yes | | | Depth (ii | ′ - | | | | |
| Surface Water Water Table | vations: er Present? Yes Present? Yes | | No X | Depth (i | nches): | | Wetland Hydrolog | ny Present? Yes No. | X |
| Surface Water Water Table Saturation Pr | vations: er Present? Yes Present? Yes resent? Yes | | No X | | nches): | | Wetland Hydrolog | gy Present? Yes No | Х |
| Surface Water Water Table Saturation Pr (includes cap | vations: er Present? Yes Present? Yes resent? Yes | auge, monit | No X No X | Depth (ii Depth (ii | nches): _ nches): _ | s inspec | | gy Present? Yes No | X |
| Surface Water Water Table Saturation Pr (includes cap Describe Red | vations: er Present? Yes Present? Yes resent? Yes oillary fringe) | auge, monit | No X No X | Depth (ii Depth (ii | nches): _ nches): _ | s inspec | | gy Present? Yes No | X |
| Surface Water Water Table Saturation Pr (includes cap | vations: er Present? Yes Present? Yes resent? Yes oillary fringe) | auge, monit | No X No X | Depth (ii Depth (ii | nches): _ nches): _ | s inspec | | gy Present? Yes No | X |
| Surface Water Water Table Saturation Pr (includes cap Describe Red | vations: er Present? Yes Present? Yes resent? Yes oillary fringe) | auge, monit | No X No X | Depth (ii Depth (ii | nches): _ nches): _ | s inspec | | gy Present? Yes No | X |

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

| Project/Site: Yellow Rosebush | | City/Cour | nty: Wasco | | Sampling Date: | 7/19/2023 |
|---|---------------------|----------------|------------------|--|-----------------------------------|------------|
| Applicant/Owner: Savion | | <u> </u> | · - | State: OR | Sampling Point: | SP-449 |
| Investigator(s): Jess Taylor, Katie Pyne | | Section, T | ownship, Ra | ange: <u>T04S, R15E</u> | | |
| Landform (hillside, terrace, etc.): Plateau | Lo | cal relief (co | ncave, conv | ex, none): Concave | Slop | e (%): 0 |
| Subregion (LRR): LRR B Lat: 45.146810 | | | Long: <u>-</u> 1 | 120.832791 | Datum: | WGS 84 |
| Soil Map Unit Name: Condon-Bakeoven complex, 2 to | to 20 percent slo | pes | | NWI classif | ication: PUSAh | |
| Are climatic / hydrologic conditions on the site typical | for this time of ye | ear? | Yes X | No (If no, exp | olain in Remarks.) | |
| Are Vegetation, Soil, or Hydrology | | | re "Normal C | Dircumstances" present? | Yes X No | · |
| Are Vegetation, Soil, or Hydrology | _naturally proble | ematic? (If | f needed, ex | plain any answers in Rer | marks.) | |
| SUMMARY OF FINDINGS – Attach site n | nap showing | sampling | point lo | cations, transects, | important featu | ıres, etc. |
| Hydrophytic Vegetation Present? Yes | No X | Is the | Sampled A | rea | | |
| | No X | | n a Wetland | | No X | |
| Wetland Hydrology Present? Yes | No <u>X</u> | | | | | |
| Remarks: The upland plot confirms non-wetland in an area ma | annod on a freehy | votor pand fe | acture in the | National Watlands Inver | story dotaget | |
| The upland plot confirms non-wetland in an area ma | pped as a nesni | vater pond re | ature in the | National Wellands Inven | itory dataset. | |
| VEGETATION – Use scientific names of | plants. | | | | | |
| | Absolute | Dominant | Indicator | _ | | |
| Tree Stratum (Plot size: 30' radius) | % Cover | Species? | Status | Dominance Test wor | | |
| 1 2. | | | | Number of Dominant S Are OBL, FACW, or F | | 0 (A) |
| 3. | | | | Total Number of Domi | | <u> </u> |
| 4. | | | | Across All Strata: | • | 1 (B) |
| C. " (C) I C: tree (D) (D) (A) (A) (A) | | Total Cover | | Percent of Dominant S | • | 224 (A/D) |
| Sapling/Shrub Stratum (Plot size: 15' radius 1. | _) | | | Are OBL, FACW, or F | AC: <u>U.</u> | 0% (A/B) |
| 2. | | | | Prevalence Index wo | orksheet: | |
| 3. | | | | Total % Cover of | | ply by: |
| 4. | | | | | x 1 = | 0 |
| 5 | : | | | | | 0 |
| Herb Stratum (Plot size: 5' radius) | =I | Total Cover | | | | 0 |
| 1. Bromus tectorum | 5 | No | UPL | | | 500 |
| 2. Tragopogon dubius | 5 | No | UPL | | | (B) |
| 3. Taeniatherum caput-medusae | 90 | Yes | UPL | Prevalence Index | = B/A = 5.00 | |
| 4. | | · | | Under wheet's Vagatat | et a la disetano. | |
| 5. 6. | | | | Hydrophytic Vegetat Dominance Test is | | |
| 7. | | | | Prevalence Index | | |
| 8. | | | | | aptations ¹ (Provide s | |
| | | Total Cover | | | s or on a separate s | - |
| Woody Vine Stratum (Plot size: 30' radius | _) | | | | ophytic Vegetation ¹ | |
| 1 2. | | | | ¹ Indicators of hydric so be present, unless dis | | |
| | =T | Total Cover | | Hydrophytic | turbou c. p. c | |
| | | | | Vegetation | | |
| % Bare Ground in Herb Stratum 0 % | 6 Cover of Biotic | Crust 0 | | Present? Yes | No X | = |
| Remarks: | | | | | | _ |
| | | | | | | |

SOIL Sampling Point: SP-449

| | • | to the dep | | | | ator or c | onfirm the absence o | of indicators.) | | |
|-------------------------|-----------------------------|---------------|------------------------|---------------|-------------------------|------------------|-------------------------------|----------------------------------|----------------------|--------------|
| Depth (inches) | Matrix Color (moist) | <u></u> % | Color (moist) | x Featur % | es Type ¹ | Loc ² | Texture | | Remarks | |
| 0-10 | 10YR 3/3 | 100 | COIOI (IIIOISI) | /0 | туре | LUC | | | Silt Loam | |
| 0-10 | 10113/3 | 100 | | | | | Loamy/Clayey | - | SIII LUAIII | |
| | - | | | | | | | - | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=De | oletion, RM= | Reduced Matrix, C | CS=Cove | ered or C | oated S | and Grains. ² Loca | tion: PL=Pore | Lining, M=N | Matrix. |
| | Indicators: (Applic | | | | | | | s for Problem | | |
| Histosol | (A1) | | Sandy Red | dox (S5) | | | 1 cm | Muck (A9) (LF | RR C) | |
| Histic Ep | pipedon (A2) | | Stripped M | latrix (Se | 6) | | 2 cm | Muck (A10) (L | .RR B) | |
| Black His | stic (A3) | | Loamy Mu | cky Mine | eral (F1) | | Iron-N | /langanese Ma | asses (F12) (| LRR D) |
| Hydroge | n Sulfide (A4) | | Loamy Gle | eyed Mat | rix (F2) | | Redu | ced Vertic (F1 | 8) | |
| | I Layers (A5) (LRR | C) | Depleted N | ∕latrix (F | 3) | | | Parent Materia | ` ' | |
| | ck (A9) (LRR D) | | Redox Dar | | | | | Shallow Dark | |) |
| | d Below Dark Surfac | e (A11) | Depleted [| | |) | Other | (Explain in Re | emarks) | |
| | ark Surface (A12) | | Redox Dep | oression | s (F8) | | | | | |
| | lucky Mineral (S1) | 3, ,, | | | | | | | | |
| | leyed Matrix (S4) | | ors of nyaropnytic v | egetatio | n and we | etiand ny | drology must be prese | nt, uniess dist | urbea or prod | olematic. |
| | Layer (if observed) | | | | | | | | | |
| Type: Depth (ir | Rock Rest | 10 | | | | | Uvdria Cail Drasant | • | Vaa | No V |
| Remarks: | | 10 | | | | | Hydric Soil Present | | Yes | No X |
| | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | |
| • | drology Indicators | | | | | | | | | |
| - | cators (minimum of | one is requir | | | | | | y Indicators (n | | vo required) |
| | Water (A1) | | Salt Crust Biotic Crus | ` , | | | | r Marks (B1) (I | - | 20) |
| Saturatio | ter Table (A2) | | Aquatic Inv | | oc (B12) | | | nent Deposits Deposits (B3) (| | ie) |
| | arks (B1) (Nonrive i | rine) | Hydrogen | | ` ' | | | age Patterns (| - | |
| | it Deposits (B2) (No | - | Oxidized F | | | | | eason Water | | |
| | oosits (B3) (Nonrive | - | Presence | | | • | · · · — · | ish Burrows (C | , , | |
| | Soil Cracks (B6) | , | Recent Iro | | | ` ' | s (C6) Satur | ation Visible o | n Aerial Imag | gery (C9) |
| Inundation | on Visible on Aerial | Imagery (B7 | | | | | | ow Aquitard (D | _ | |
| Water-S | tained Leaves (B9) | | Other (Exp | lain in R | emarks) | | FAC- | Neutral Test ([| D5) | |
| Field Obser | vations: | | | | | | | | | |
| Surface Water | er Present? Y | es | No X | Depth (i | nches): | | | | | |
| Water Table | Present? Y | es | | | nches): | | | | | |
| Saturation P | resent? Y | es | No X | Depth (i | nches): | | Wetland Hydrolog | y Present? | Yes | No X |
| (includes cap | _ · · · · · | | | | | | | | | |
| Describe Re | corded Data (stream | n gauge, mo | onitoring well, aeria | l photos | previou | s inspec | tions), if available: | | | |
| Remarks: | | | | | | | | | | |
| . comanco. | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Wetla | nds ar | nd Wa | ters F | Renor |
|-------|--------|--------|--------|-------|
| wcua | nus ai | iu vva | | CDUL |

Appendix B. Photolog

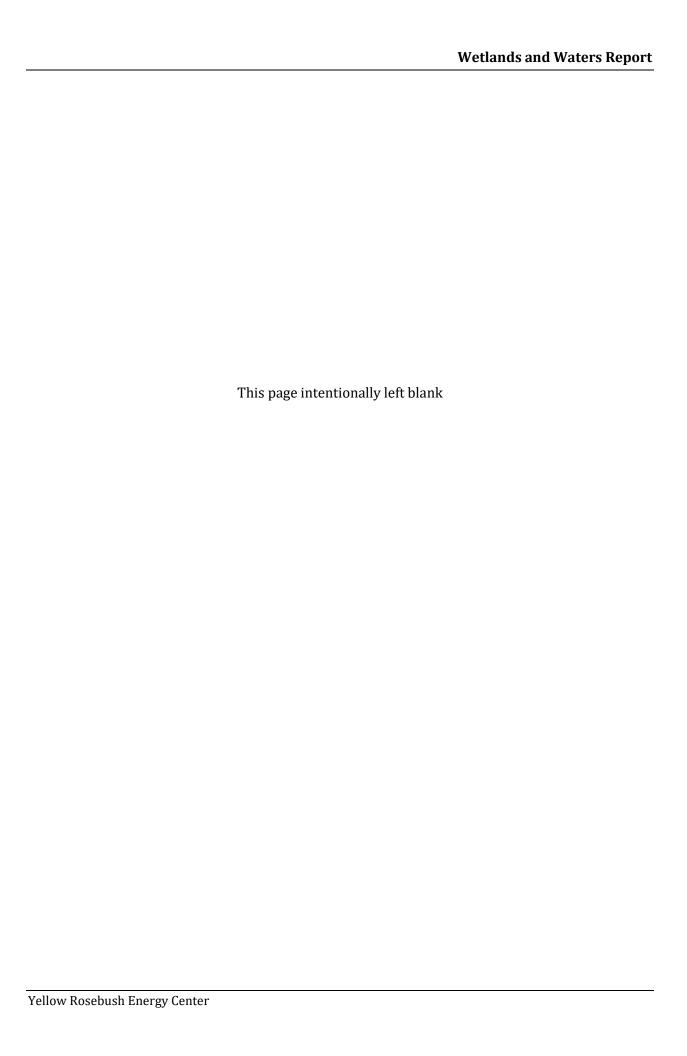




Photo 1.6/27/2023. Ephemeral drainage ST-300 with A. tridentata in slight channel. Looking NE.



Photo 3. 6/27/2023. No bed or banks for ST-303 within project area NW of this point. Road crossing and cattle infrastructure. Looking NW.



Photo 2. 6/27/2023. Ephemeral drainage ST-303 has upland vegetation including juniper and cheatgrass. Looking S.



Photo 4. 6/27/2023. Ephemeral drainage ST-309 is slight and runs in swale in sagebrush. Looking NW.



Photo 5. 6/27/2023. No bed or banks on NHD, no culvert under road. Looking NW.



Photo 7. 6/27/2023. Water source for livestock pond wetland WT-313 is pipe coming out of the ground. Looking SE.



Photo 6. 6/27/2023. No bed or banks on NHD line. Looking NW.



Photo 8. 6/27/2023. Excavated livestock pond wetland WT-313, wetland veg starting to grow where pond has receded. Looking NW.



Photo 9. 6/27/2023. Ephemeral drainage ST-206 general conditions. Looking NE.



Photo 11. 6/27/2023. Stream ST-202 downstream conditions, surveyor standing at boundary of wetland (WT-201) inside drainage. Looking N.



Photo 10.6/27/2023. Looking over WT-201 dominated by cattail. An old pump is visible that was apparently used to extract water from the subsurface in the wetland that is still used as a water source for cattle troughs. Looking N.



Photo 12. 6/27/2023. General conditions in this reach of ST-202. Looking S.



Photo 13. 6/27/2023. General conditions in this reach of ST-202. Looking N.

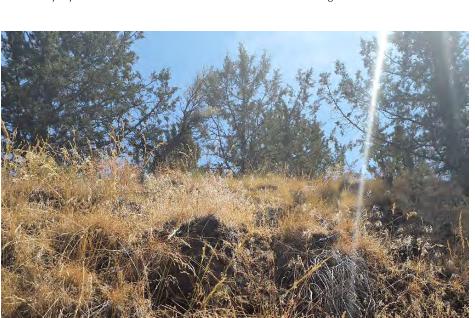


Photo 15. 6/27/2023. Stream ST-205 runs off this terrace and joins with ST-204 before flowing north. Looking S.



Photo 14. 6/27/2023. Stream ST-202 originates below berm. Looking S.



Photo 16. 6/27/2023. General conditions in this reach of ephemeral stream ST-204. Looking SW.



Photo 17. 6/27/2023. No defined bed or banks on NHD line in this area. Looking E.



Photo 19. 6/27/2023. Pipe transporting water to upland swale. Looking E.



Photo 18. 6/27/2023. Artificially flooded upland swale (sample plot SP-101) does not meet hydric criteria. Looking E.



Photo 20. 6/27/2023. Flooded upland due to current irrigation, does not meet wetland criteria. Looking W.



Photo 21. 6/27/2023. Sample plot SP-105 in abandoned livestock pond. Does not meet hydric criteria. Looking E.



Photo 23. 6/27/2023. Ephemeral stream (ST-116) general conditions. Looking SE.



Photo 22. 6/27/2023. Abandoned livestock pond on NWI does not have hydric veg or hydrology indicators. Sample plot SP-107. Looking NW.



Photo 24. 6/27/2023. Ephemeral stream (ST-115) general conditions. Looking NW.



Photo 25. 6/27/2023. No drainage in this section of the NHD line. Looking NW.



Photo 26. 6/27/2023. Ephemeral stream (ST-115) headwaters. Looking NW.



Photo 27. 6/27/2023. Headwaters for ST-116, ephemeral drainage about 4 feet wide in swale. Looking N



Photo 28.6/27/2023. General conditions in this reach of ephemeral stream ST-116. Looking N.



Photo 29. 6/27/2023. Another abandoned livestock pond listed on the NWI no longer meets hydric criteria. Sample plot SP-117. Looking N.



Photo 30. 6/27/2023. No drainage in this section of the NHD line. Looking S.



Photo 31. 6/27/2023. Ephemeral stream ST-121 headwaters. Looking N.



Photo 32. 6/27/2023. No bed or banks on NHD line. Looking N.



Photo 33. 6/27/2023. Overview of dry livestock pond that does not meet hydric criteria. Looking N.



Photo 34. 6/27/2023. Two metal-lined water troughs for cattle are filled by pipe. Looking E.



Photo 35.6/27/2023. Sample plot SP-302 taken in area with overflow from pipe in the ground where cattails are growing. Soils are not hydric and there is no standing water. Looking E.



Photo 36. 6/27/2023. No more bed or banks beyond this point for ephemeral stream ST-303. Looking ς



Photo 37.6/27/2023. Shallow scabland will carry water but no bed or banks. Areas like this common throughout project area next to canyon. Looking E.



Photo 38. 6/27/2023. Ephemeral stream ST-307 general conditions for this reach. Looking NE.



Photo 39. 6/27/2023. Drainage (ST-307) continues northeast outside of survey area. Looking NE.



Photo 40.6/27/2023. Looking NW along dry livestock pond (LP-01) boundary, berm to the right dry livestock pond to the left. Sample Plot (SP-200), site does not meet hydric criteria. Looking NW.





Photo 43. 6/30/2023. No bed or banks on NHD line. Looking S.



Photo 42. 6/27/2023. Overview of conditions in wetland WT-203. Looking NW.



Photo 44. 6/30/2023. General conditions in this reach of ephemeral stream ST-121. Looking S.



Photo 45. 6/30/2023. General conditions in this reach of ephemeral stream ST-121. Looking S.



Photo 47.6/30/2023. Wetland WT-122, in bed and banks of ephemeral stream ST-121. Looking N.



Photo 46. 6/30/2023. Excavated livestock pond (LP-02) in this reach of ephemeral stream ST-121. Looking S.



Photo 48. 6/30/2023. Overview of wetland WT-123 inside banks of ST-121. Looking N.





Photo 51. 6/30/2023. Headwaters for ephemeral drainage ST-125. Looking .



Photo 50. 6/30/2023. Overview of ephemeral stream ST-125. Looking.



Photo 52. 6/30/2023. No bed or banks. Looking NE.



Photo 53. 6/30/2023. Ephemeral streams ST-125 and ST-114 merge here and flow east. Looking E.



Photo 54. 6/30/2023. General conditions in ephemeral stream ST-114. Looking NE.



Photo 55. 6/30/2023. ST-209 does not continue uphill from this point. Looking SE.



Photo 56. 6/30/2023. Ephemeral drainage ST-211 does not continue uphill from this point. Looking SW.



Photo 57. 6/30/2023. General conditions in ephemeral stream ST-211. Looking NE.



Photo 58. 6/30/2023. General conditions in ephemeral stream ST-215. Looking N.



Photo 59. 6/30/2023. General conditions in this reach of ephemeral stream ST-208. Looking S.



Photo 60. 6/30/2023. General conditions in this reach of ephemeral stream ST-209. Looking S.



Photo 61. 6/30/2023. General conditions in this reach of ephemeral stream ST-210. Looking W.



Photo 62. 6/30/2023. General conditions in this reach of ephemeral stream ST-210. Looking S.



Photo 63.6/30/2023. Wetland WT-212 north of fence with vegetation and soils heavily disturbed by cattle. Looking NW.



Photo 64. 6/30/2023. General conditions in this reach of ephemeral stream ST-213. Looking W.



Photo 65.6/30/2023. General conditions in this reach of ephemeral stream ST-214. Looking E.



Photo 66. 6/30/2023. No bed or banks uphill from here for ST-213. Looking W.



Photo 67. 6/30/2023. General conditions in this reach of ephemeral stream ST-215. Looking E.



Photo 68. 6/30/2023. No bed or banks uphill from here for ST-215. Looking W.



Photo 69.6/30/2023. No bed or banks uphill from here for this branch of ephemeral stream ST-215. Looking S.



Photo 70. 7/18/2023. Ephemeral drainage ST-403 drains to canyon. Looking N.



Photo 71. 7/18/2023. Bermed drainage (ST-407) has pipe connected to cistern uphill. Likely filled when cattle are present. Sample plot SP-406 does not meet hydric criteria. Looking E.



Photo 72. 7/18/2023. Ephemeral drainage ST-407 general conditions in this reach (below bermed empty livestock pond). Looking N.



Photo 73. 7/18/2023. Ephemeral drainage ST-408, 1 foot wide drains to canyon. Looking N.



Photo 74. 7/18/2023. Ephemeral drainage ST-409 flows to ST-408. Looking NE.



Photo 75. 7/18/2023. Ephemeral drainage ST-414 drains to canyon. Looking N.



Photo 76. 7/18/2023. Ephemeral drainage ST-416 runs into canyon. Looking E.



Photo 77.7/18/2023. Ephemeral drainage (ST-415) on steep slope, drains to canyon. Looking E.



Photo 78. 7/18/2023. General conditions in this reach of ephemeral stream ST-407. Looking NE.



Photo 79.7/18/2023. No pedestrian access beyond this point. Likely wetland (WT-501) or intermittent downstream in this reach of ST-407. Looking NE.



Photo 80.7/18/2023. No wetland in abandoned livestock pond listed on NWI, sample plot SP-417. Looking NE.



Photo 81. 7/18/2023. Ephemeral drainage ST-419 general conditions. Looking E.



Photo 83. 7/18/2023. General conditions in ephemeral stream ST-400. Looking NE.



Photo 82.7/18/2023. No water or vegetation on area where orthoimagery is green. Looking E.



Photo 84.7/18/2023. No bed or banks uphill from here for ephemeral stream ST-400. Looking W.

C-21



 $Photo\ 85.\ 7/18/2023.\ No\ bed\ or\ banks\ on\ area\ that\ looks\ like\ drainage\ in\ orthoimagery.\ Looking\ SW.$



Photo 86. 7/18/2023. General conditions in ephemeral stream ST-404. Looking SW.



Photo 87.7/18/2023. General conditions in ephemeral stream ST-405. Looking W.



Photo 88. 7/18/2023. General conditions in ephemeral stream ST-410. Looking NW.



Photo 89. 7/18/2023. General conditions in ephemeral stream ST-411. Looking SW.



Photo 90. 7/18/2023. General conditions in ephemeral stream ST-412. Looking E.



Photo 91. 7/18/2023. General conditions in ephemeral stream ST-413. Looking W.



Photo 92. 7/18/2023. Inaccessible due to topography. Overview of stream ST-407 and potential riverine wetland (WT-501). Looking N.





Photo 95. 7/18/2023. No bed or banks on NHD line. Looking W.



Photo 94. 7/18/2023. General conditions in ephemeral stream ST-204. Looking E.



Photo 96. 7/18/2023. No bed or banks on NHD line. Looking NW.



Photo 97. 7/18/2023. No bed or banks on NHD line. Looking N.



Photo 99. 7/19/2023. Dark spot in orthoimagery is a rock pile. Looking W.



Photo 98. 7/18/2023. No bed or banks in scabland feature. Looking NW.



Photo 100.7/19/2023. White colored line on orthoimagery is scraped mineral soil behind terrace in abandoned cropfield. Looking W.



Photo 101. 7/19/2023. Dark area on orthoimagery is a rockpile. Looking N.



Photo 103. 7/19/2023. Excavated livestock pond meets vernal pool criteria. Vernal pool WT-440. Looking N.



Photo 102. 7/19/2023. Abandoned livestock pond does not have hydric veg or hydrology indicators. Looking W.



Photo 104.7/19/2023. Excavated livestock pond does not meet hydric criteria. Medusahead and bare rocky soil. Looking NW.



Photo 105. 7/19/2023. Overview of former playa. Playa was actively farmed until being planted with CRP mix. Looking SE.



Photo 106. 7/19/2023. Excavated livestock pond is wetland (WT-443). Looking SW.



Photo 107. 7/19/2023. Vernal pool (WT-444) in rangeland. Looking W.



Photo 108. 7/19/2023. No wetland in excavated livestock pond. Looking E.



Photo 109.7/19/2023. Excavated livestock pond does not have wetland features. Looking S.



Photo 110.7/19/2023. Small wetland (WT-445) in excavated livestock pond. Looking SE.



Photo 111. 7/19/2023. No wetland behind berm in drainage, silver sage and tumble mustard. Looking S.



Photo 112. 7/19/2023. No wetland in NWI, sample plot SP-446. Looking NE.



Photo 113. 7/19/2023. Former playa has been drained, plowed, and planted. Sample plot SP-447. Looking NW.



Photo 114. 7/19/2023. Ephemeral drainage ST-407, very little evidence of any flow. Looking N.



Photo 115. 7/19/2023. No wetland on NWI in excavated livestock pond. Medusahead and Salsify in sample plot SP-449. Looking SE.



Photo 116. 7/19/2023. General conditions in ephemeral stream ST-426. Looking NE.





Photo 119. 7/19/2023. General conditions in ephemeral stream ST-429. Looking SW.



Photo 118. 7/19/2023. General conditions in ephemeral stream ST-428. Looking E.



Photo 120. 7/19/2023. General conditions in ephemeral stream ST-430. Looking N.



Photo 121. 7/19/2023. General conditions in ephemeral stream ST-431. Looking N.



Photo 122. 7/19/2023. General conditions in ephemeral stream ST-432. Looking E.



Photo 123. 7/19/2023. General conditions in ephemeral stream ST-433. Looking NE.



Photo 124. 7/19/2023. Intermittent stream ST-447 general conditions in this reach. Looking N.





Photo 127. 7/20/2023. Ephemeral drainage ST-451, drains to ST-450. Looking NW.



Photo 126. 7/20/2023. Livestock pond (LP-03) in ephemeral stream ST-450 has no wetland features. Looking S.



Photo 128. 7/20/2023. Ephemeral stream ST-450 drains to excavated livestock pond (LP-04). No wetland features. Looking NE.



Photo 129. 7/20/2023. Ephemeral stream ST-454 flows to wetland approximately 1,000 feet offsite to the west. Looking E.

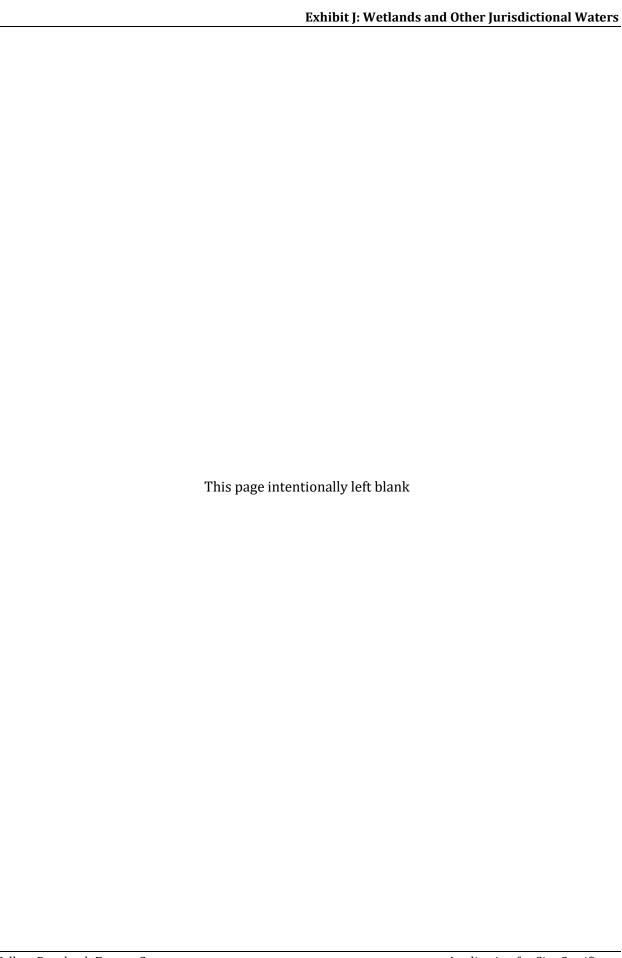


Photo 130.7/20/2023. Overview of ephemeral stream ST-450. Looking S.



Photo 131.7/20/2023. ST-450 does not continue on other side of two track road. Looking N.

Attachment J-2. Wetlands and Other Waters Delineation Report – Supplemental Information



Wetlands and Other Waters Delineation Report – Supplemental Information Yellow Rosebush Energy Center

Prepared for Yellow Rosebush Energy Center, LLC

Prepared by



September 2025



This September 2025 supplement includes updated information for the October 2023 Wetlands and Other Waters Delineation Report for the Yellow Rosebush Energy Center, Wasco County, Oregon, prepared for Yellow Rosebush Energy Center, LLC by Tetra Tech, Inc. These attachments reflect data from pedestrian surveys to delineate wetlands and other waters that were performed on November 6, 2024, and June 26, 30, July 17 to 21, 2023.

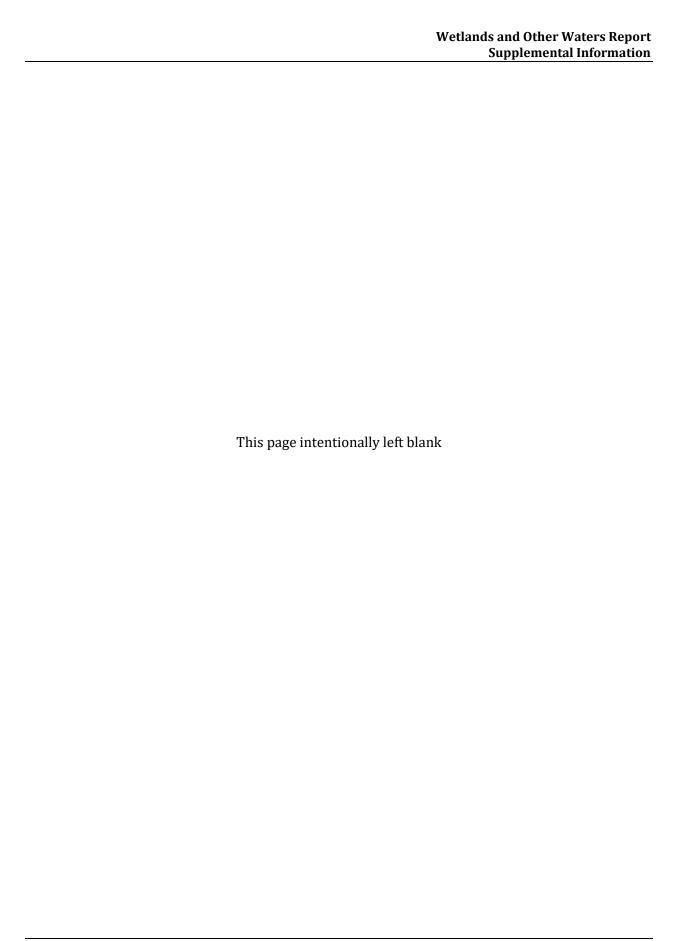
List of Figures

Figure 5. Wetland and Waters Delineation Map

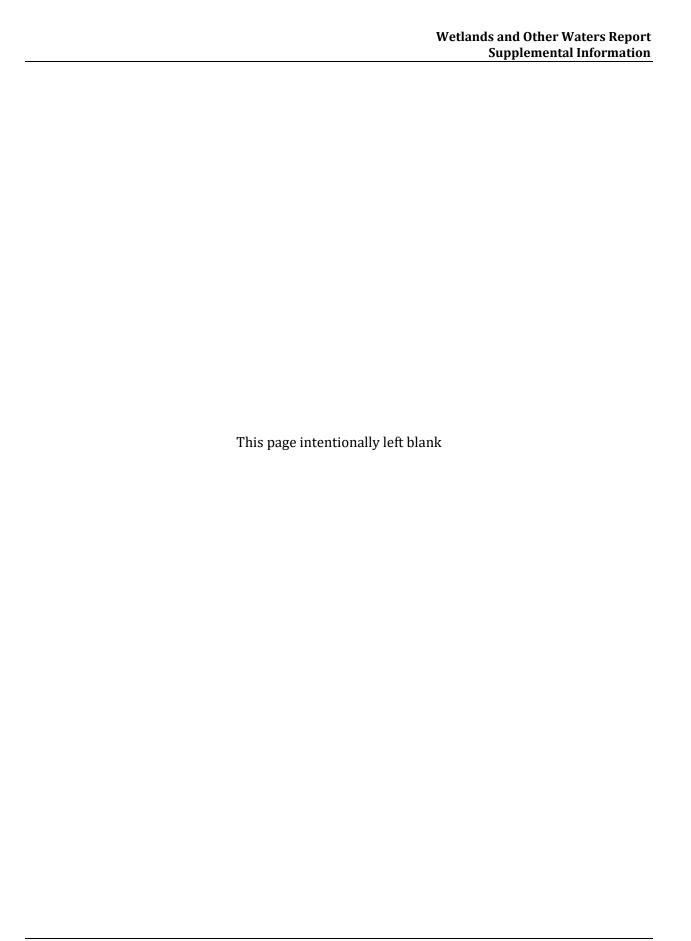
List of Appendices

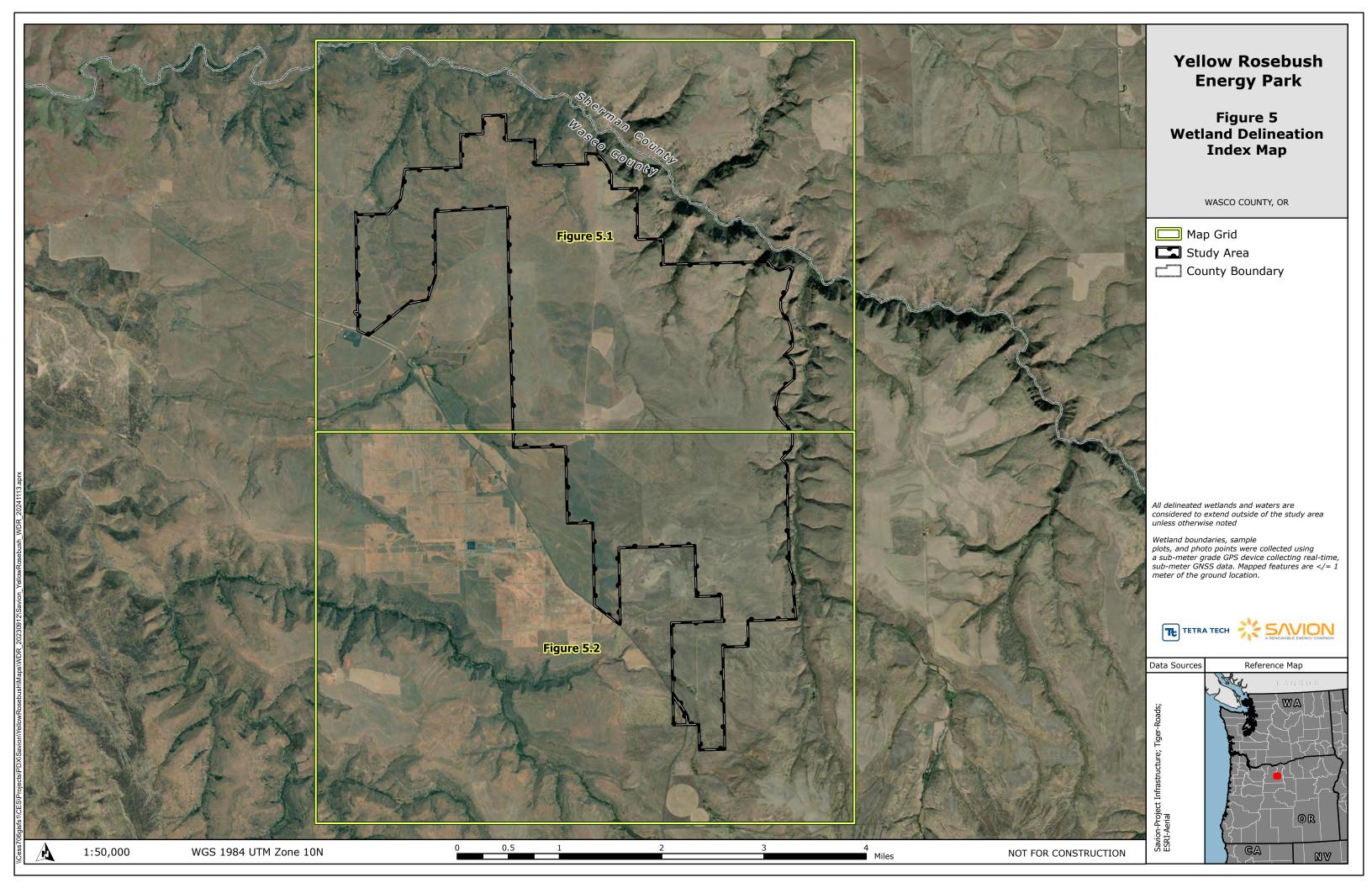
Appendix A. USACE Datasheets

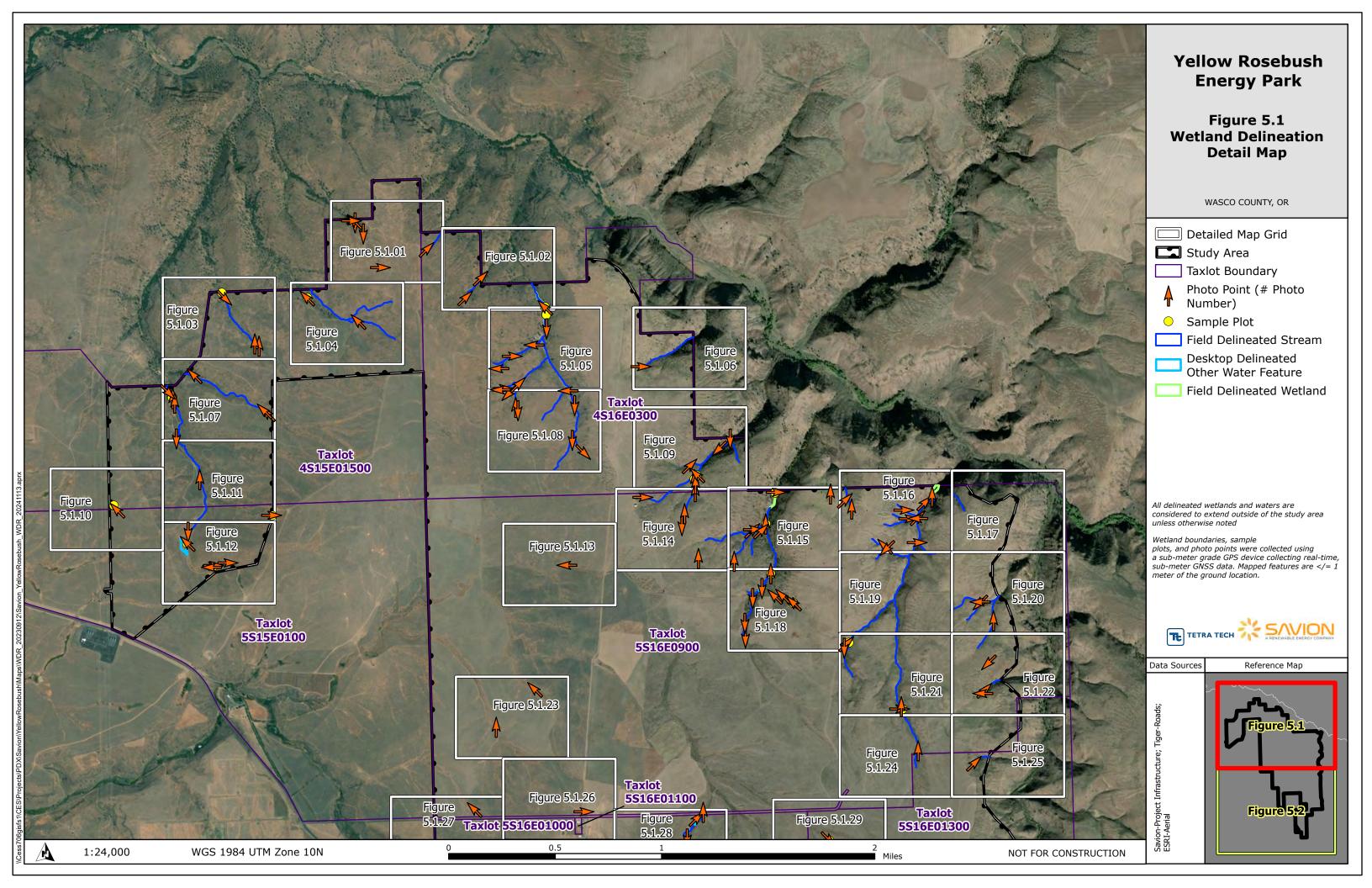
Appendix B. Photolog

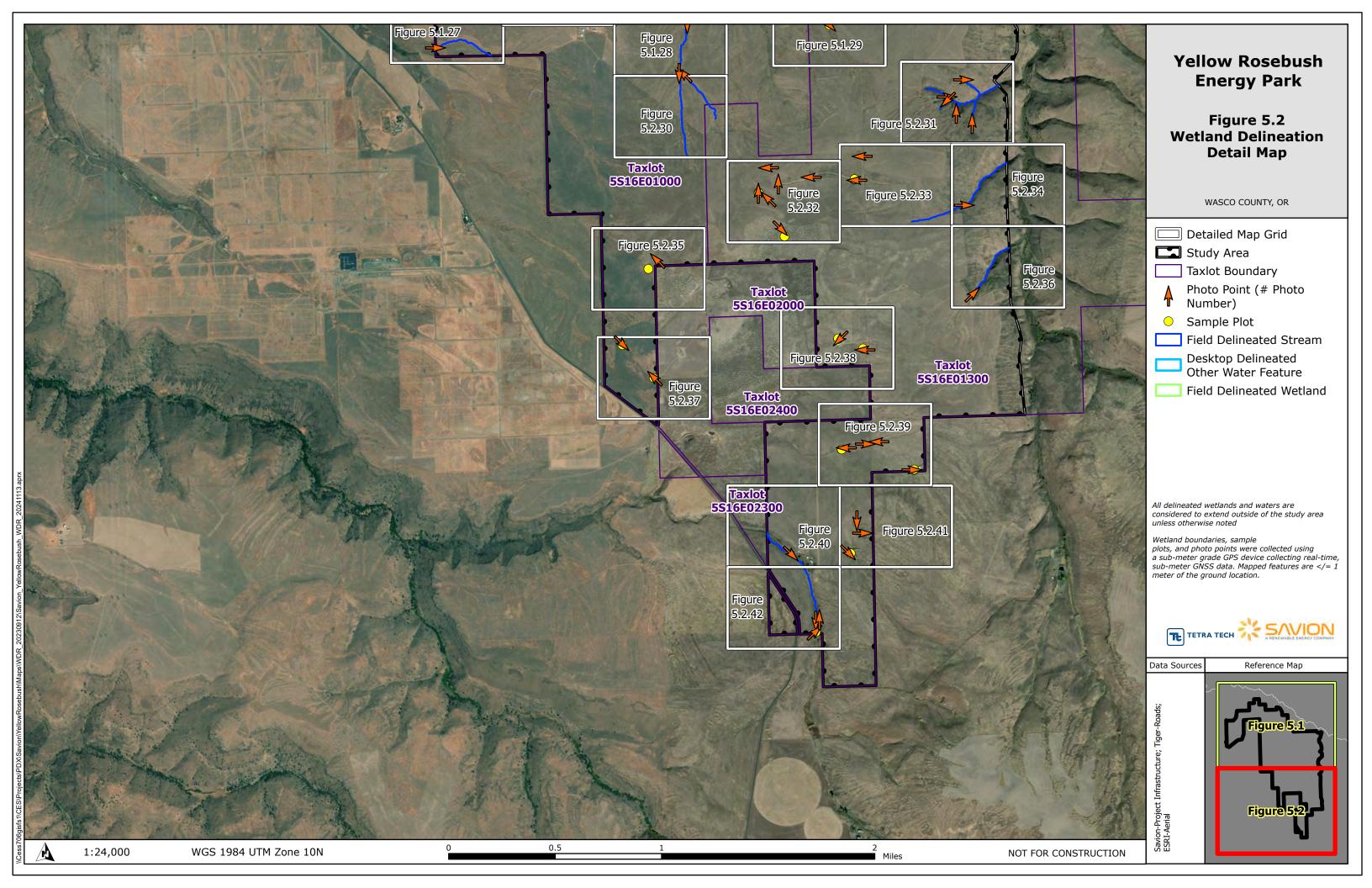


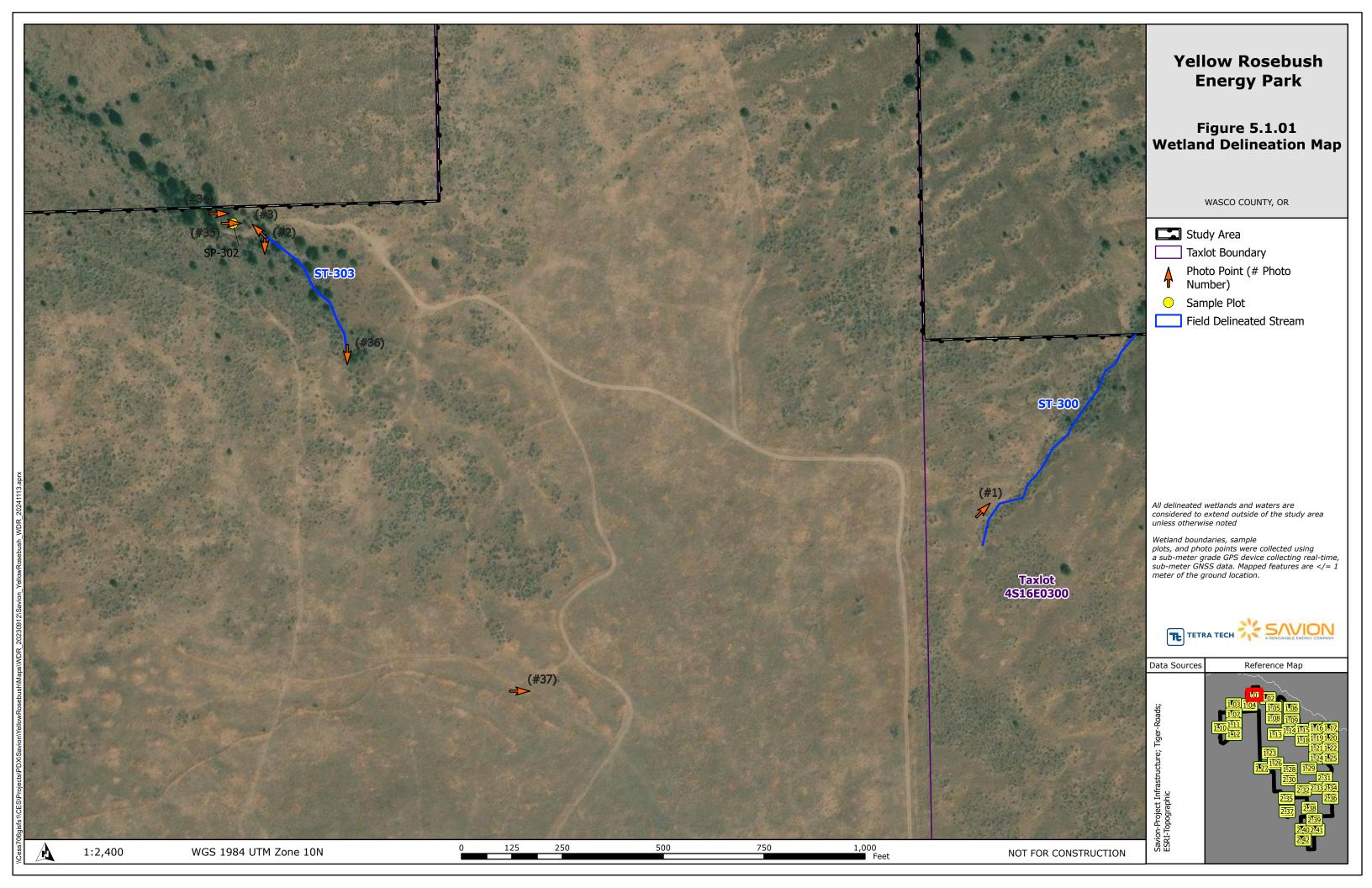
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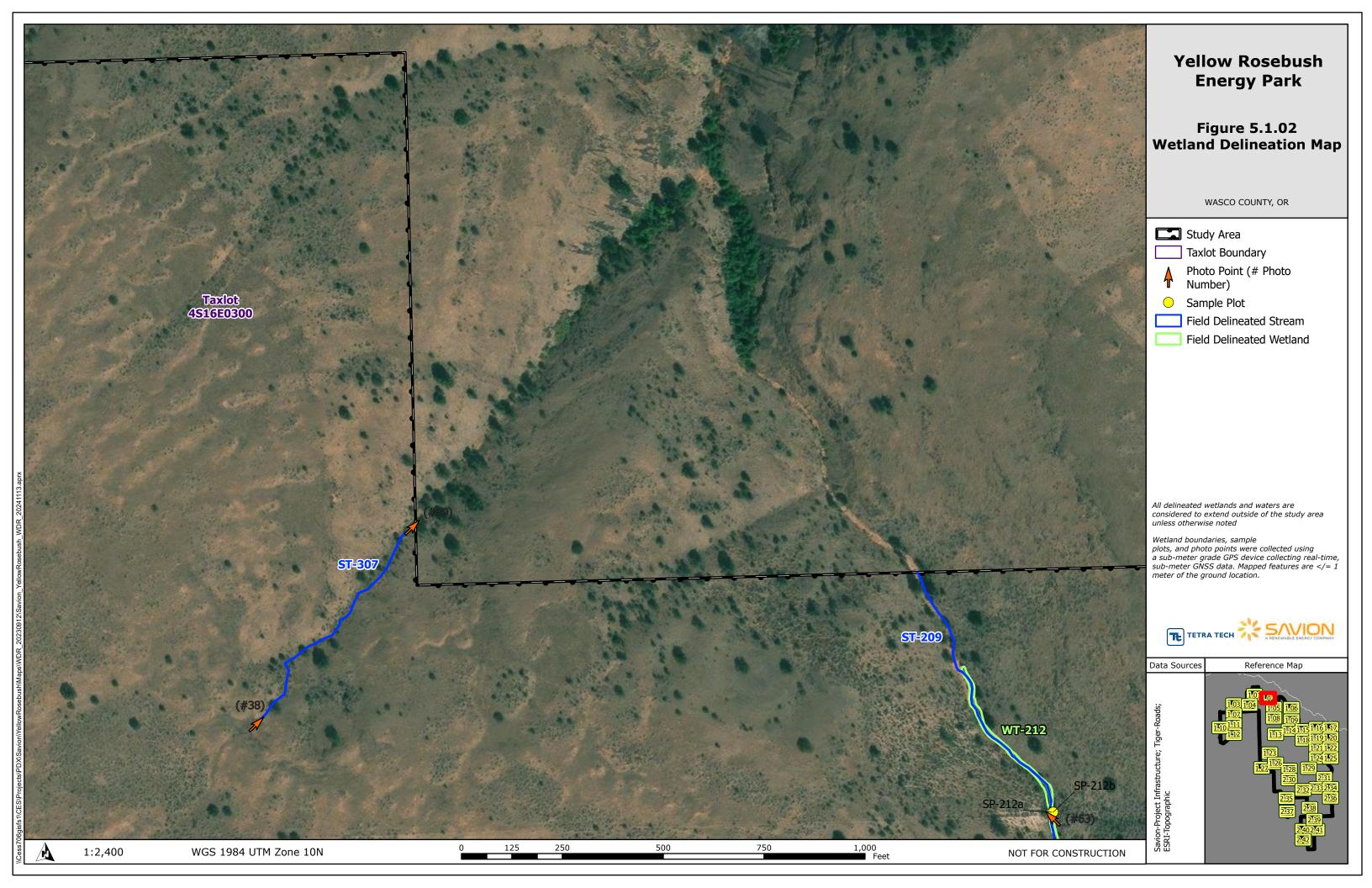


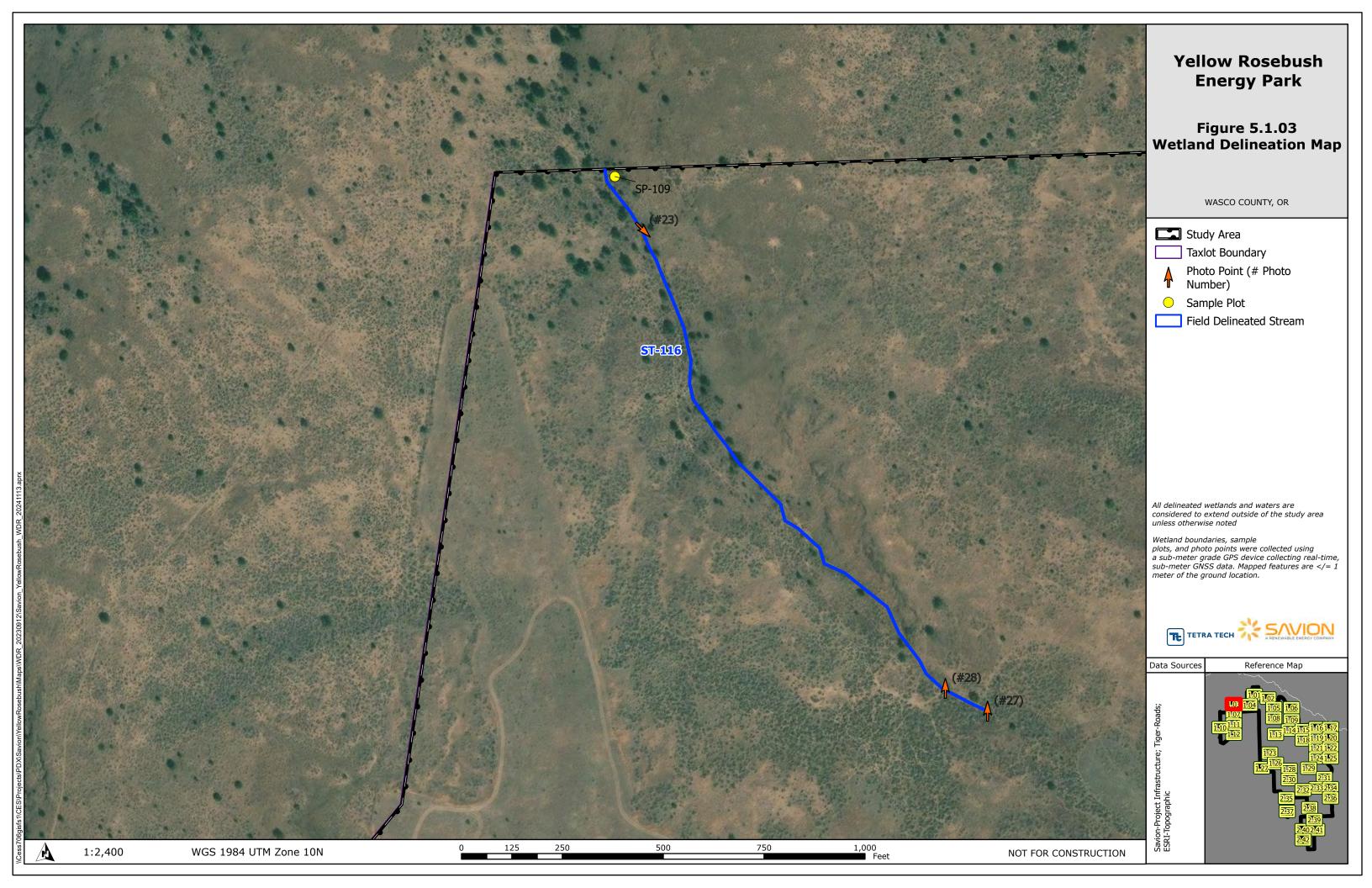


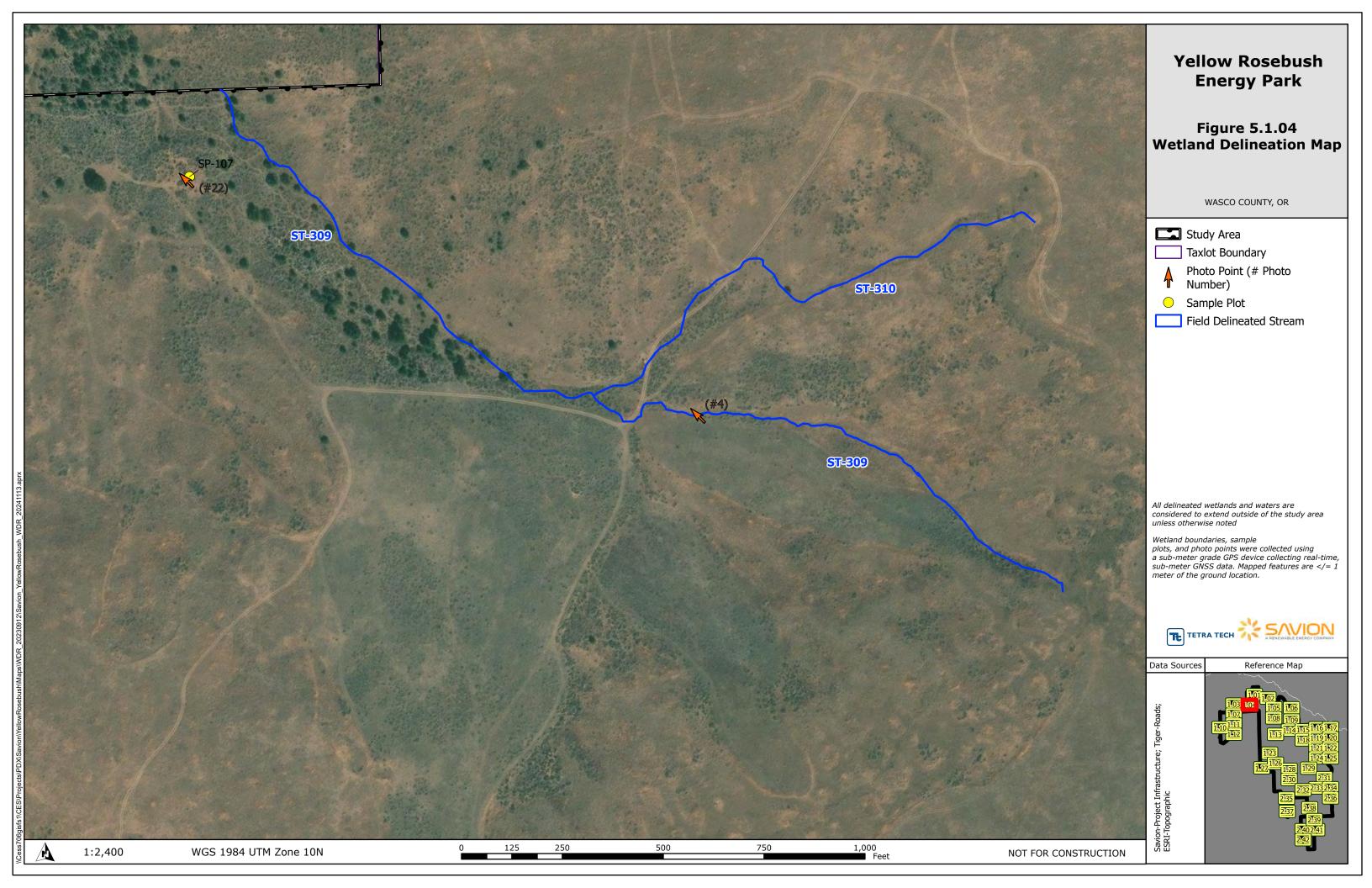


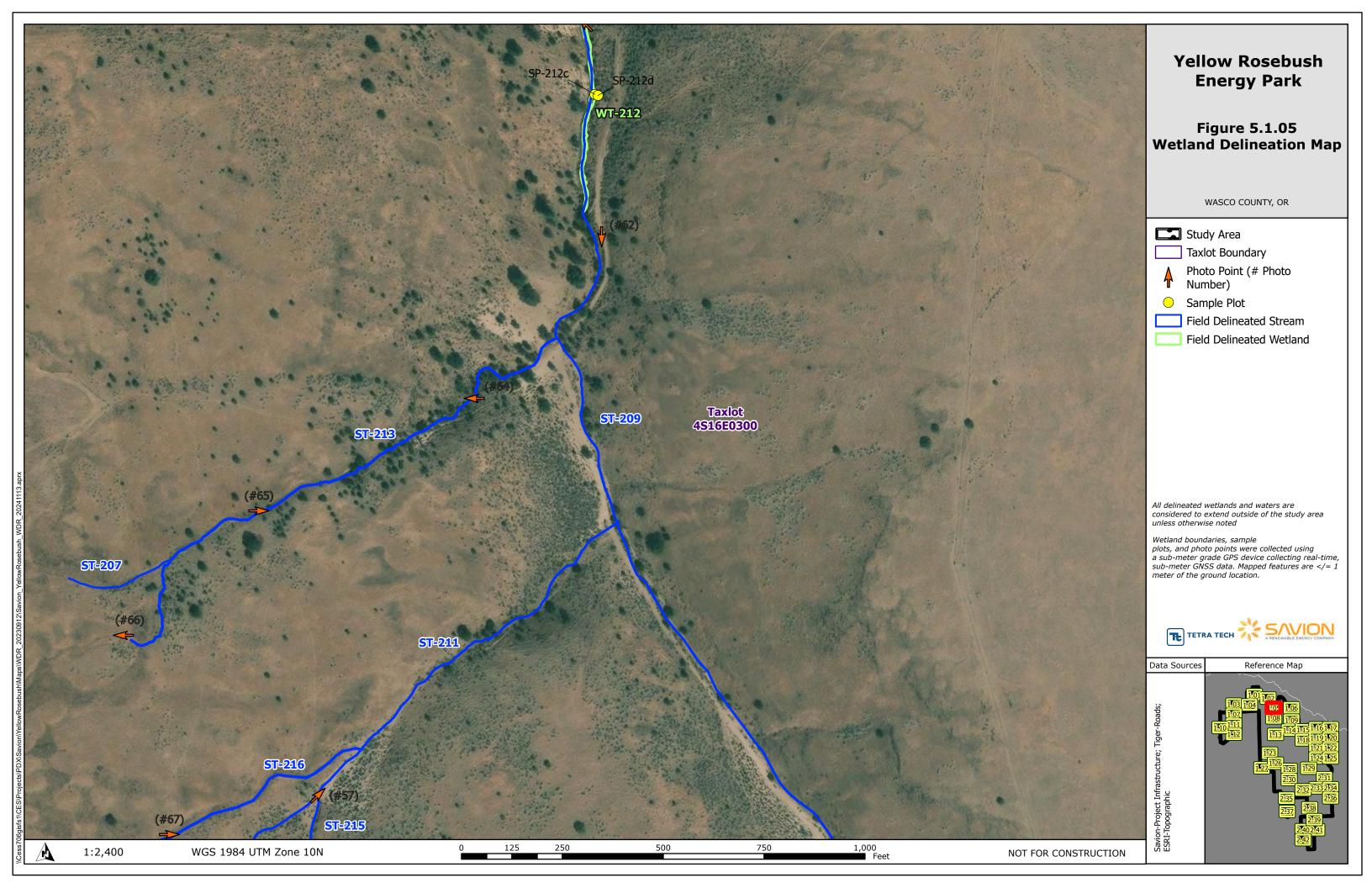


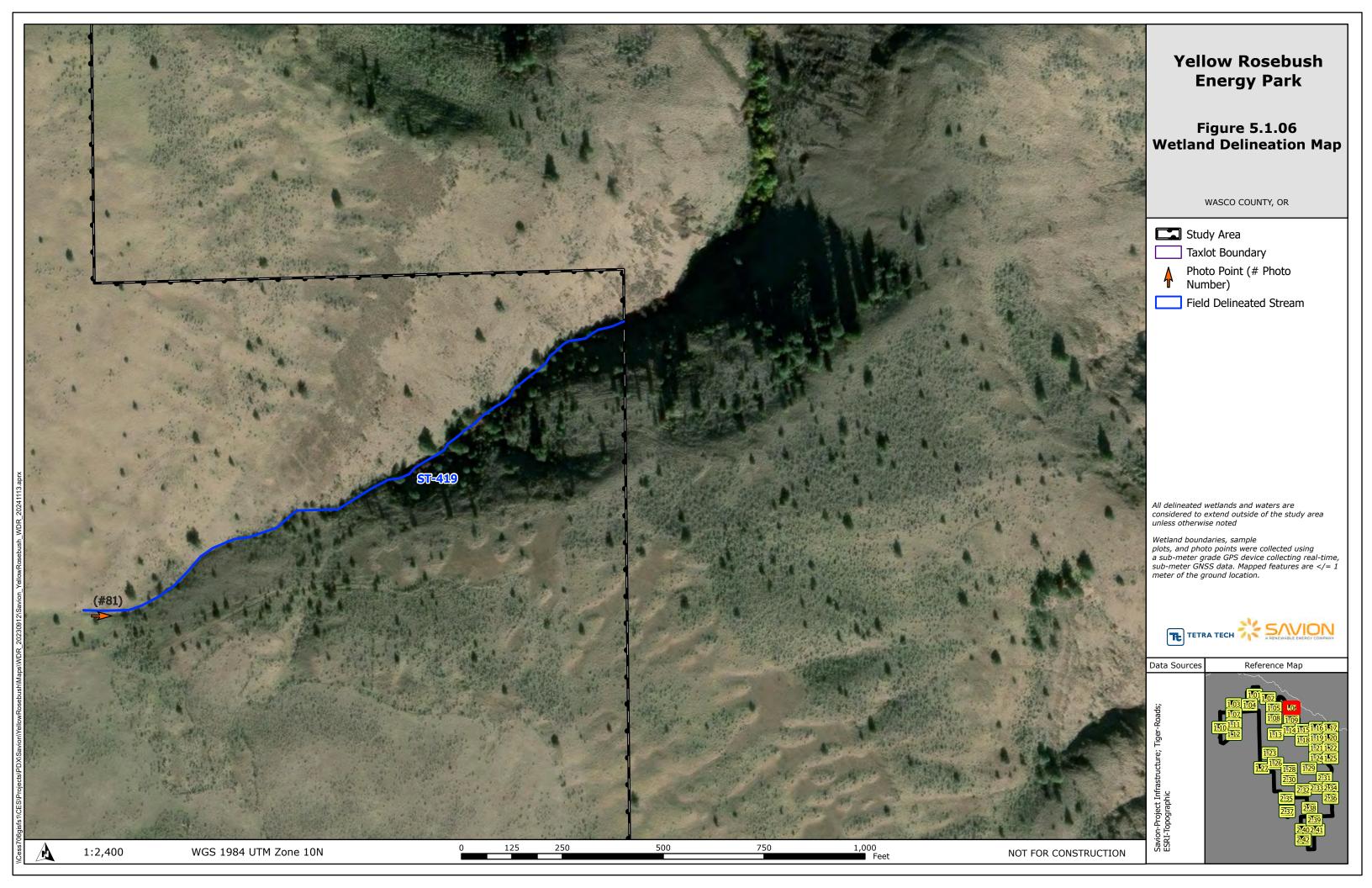


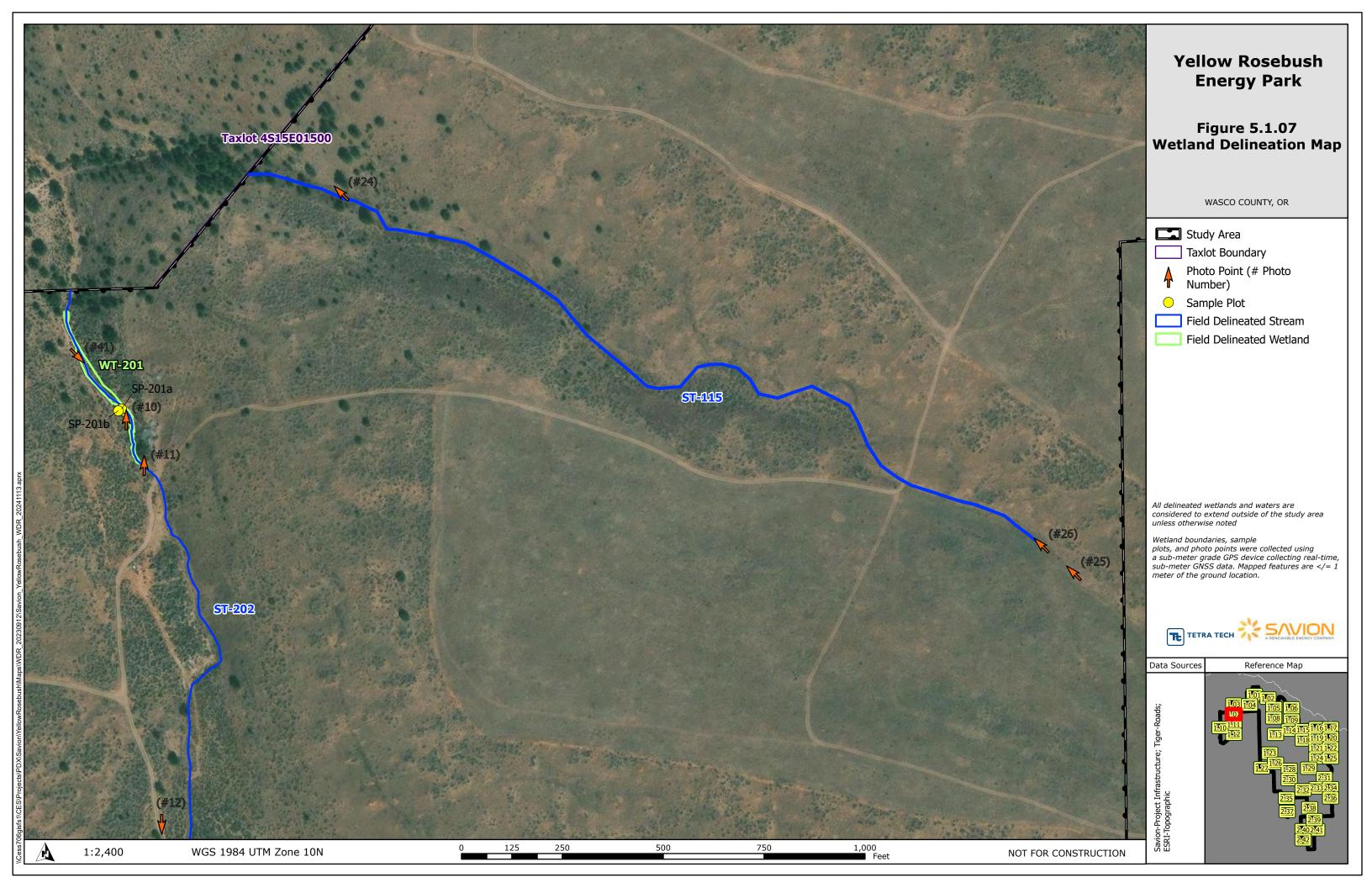


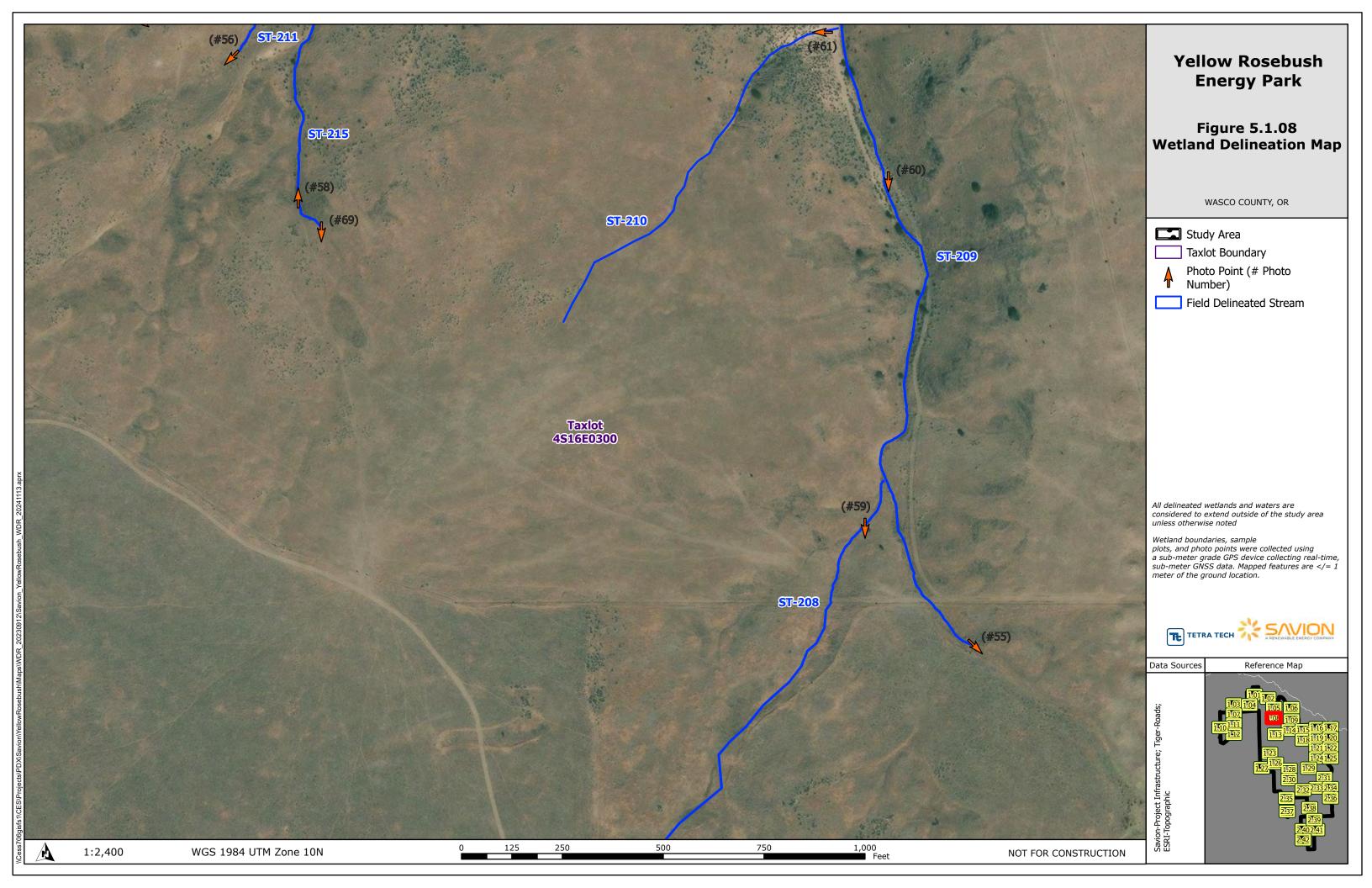


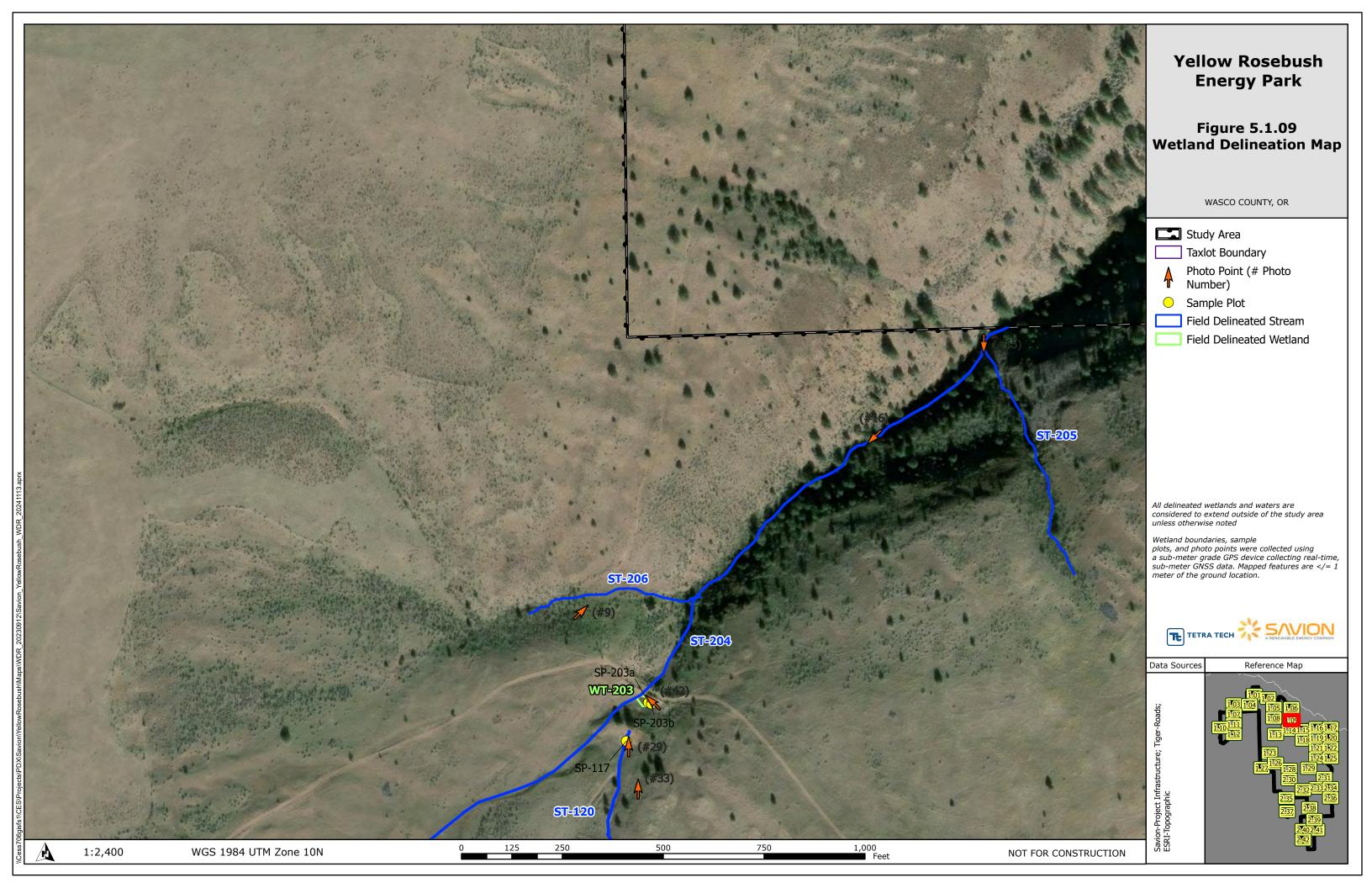


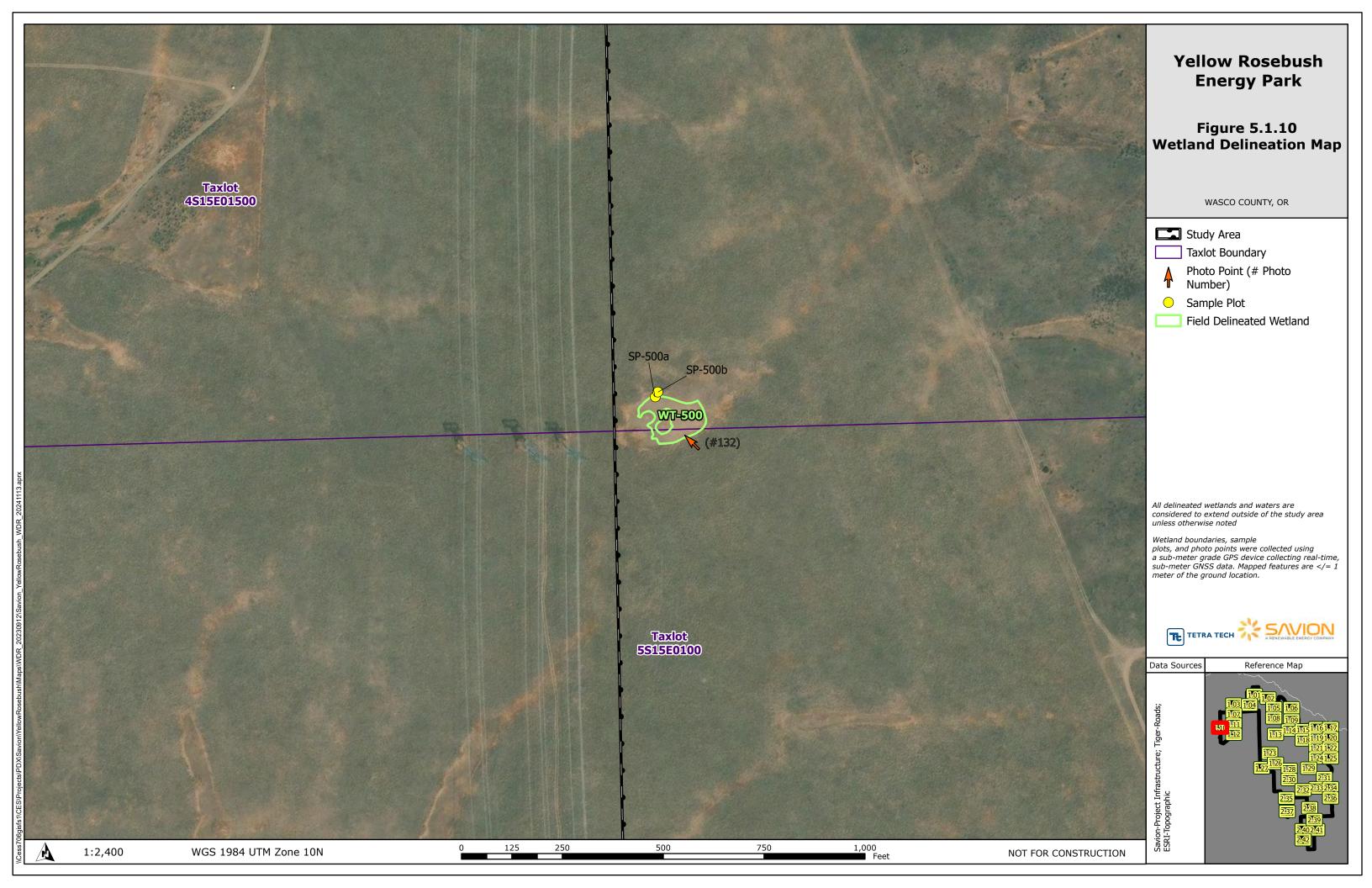


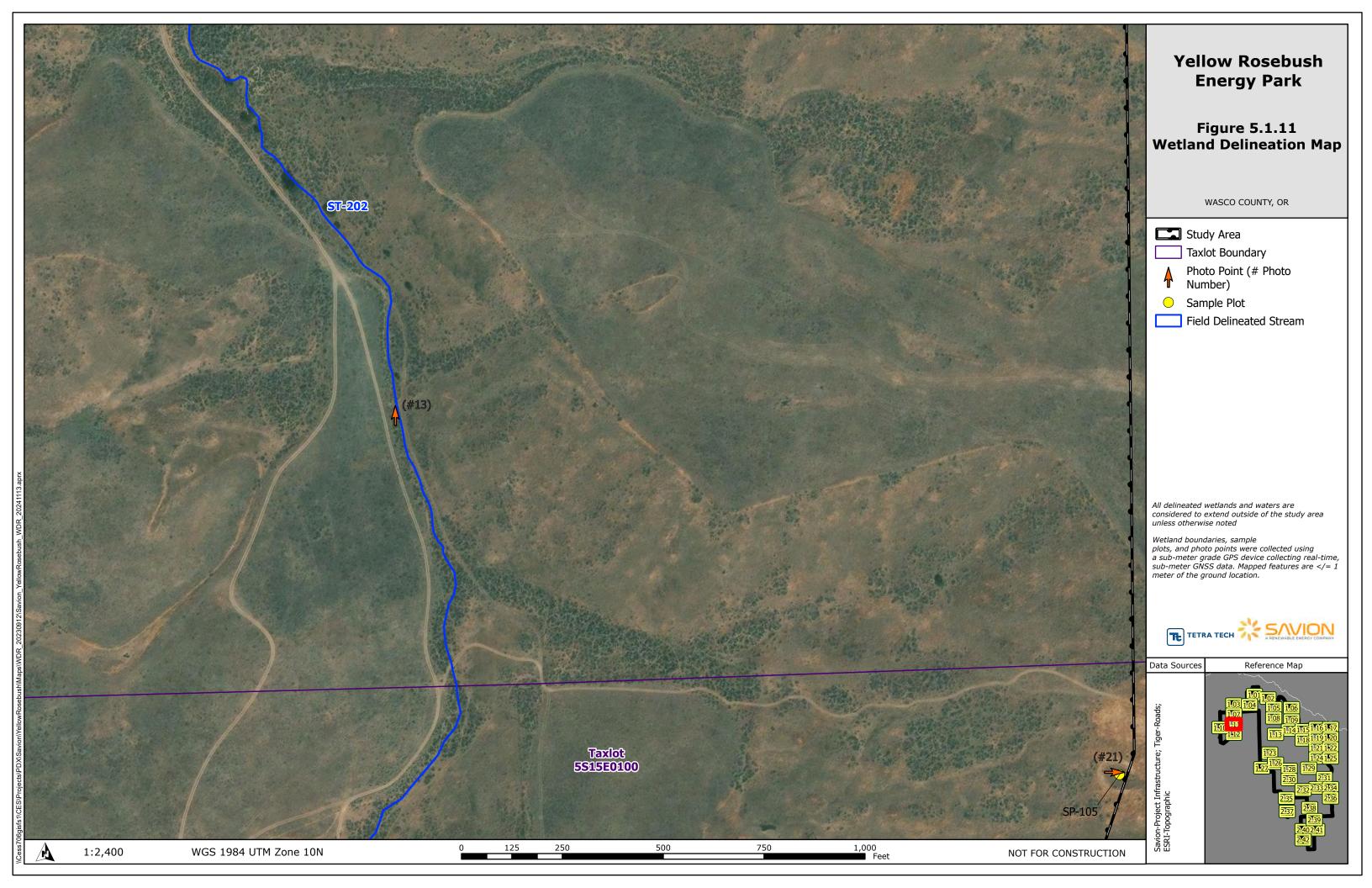


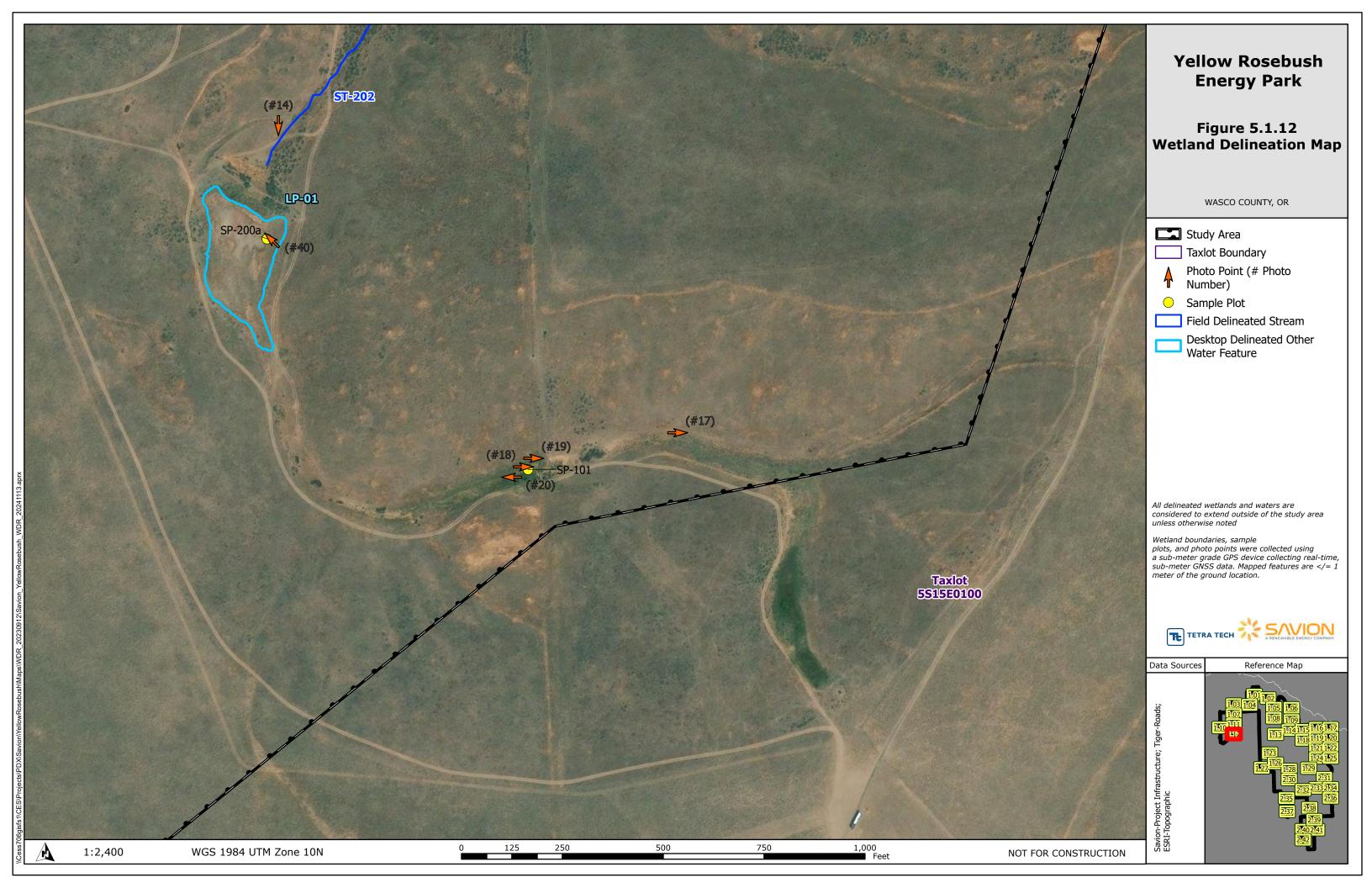




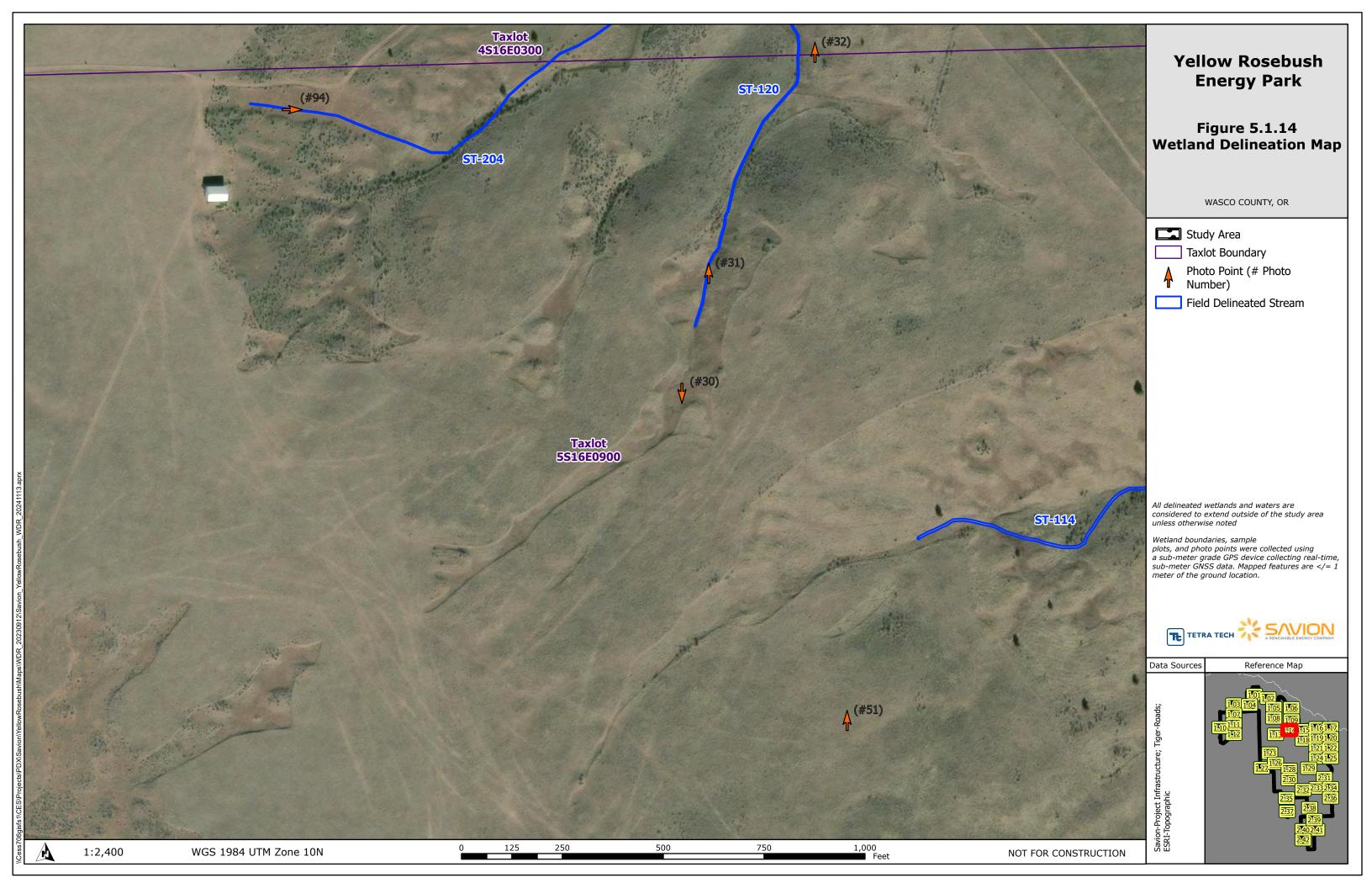


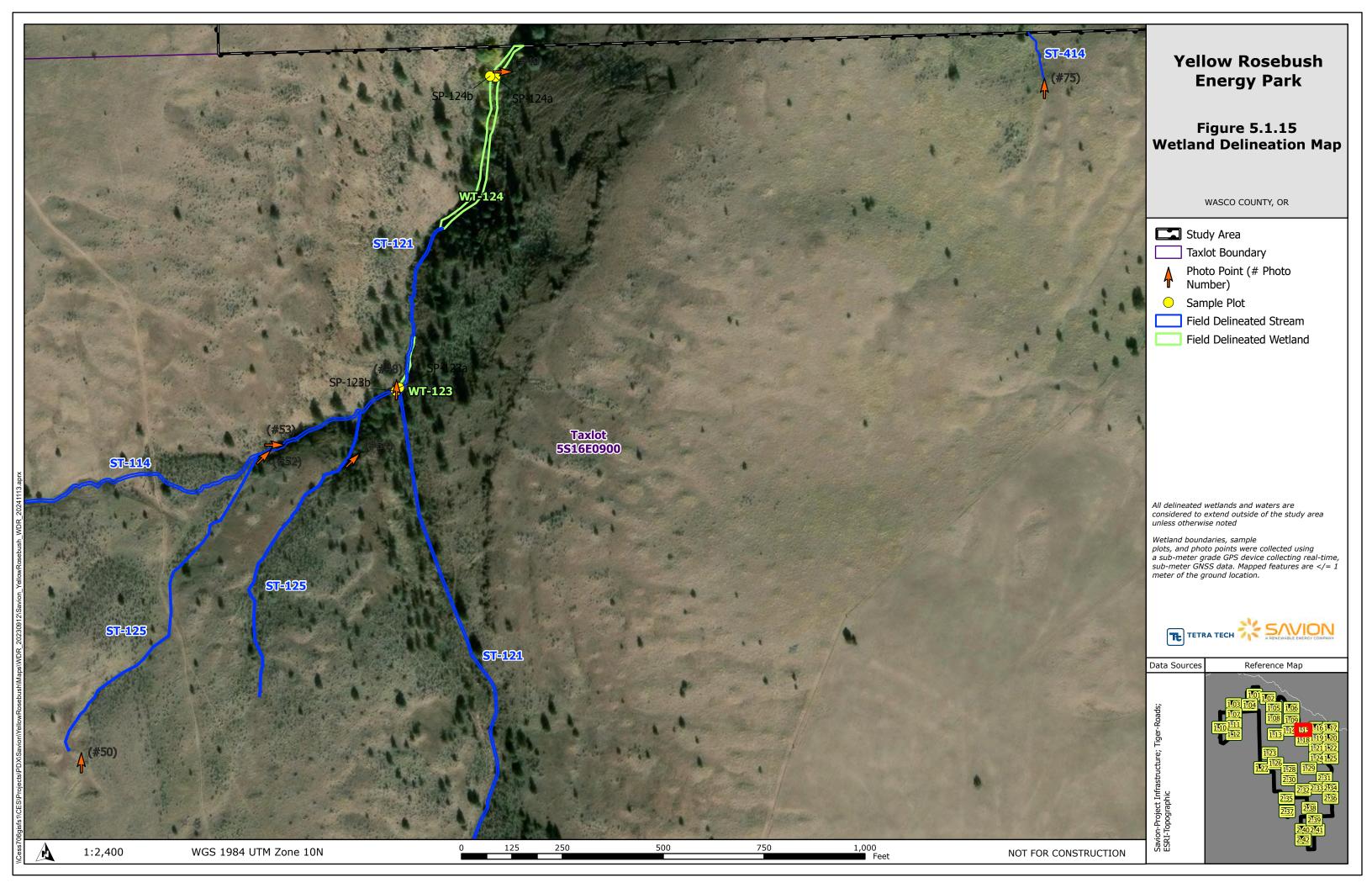


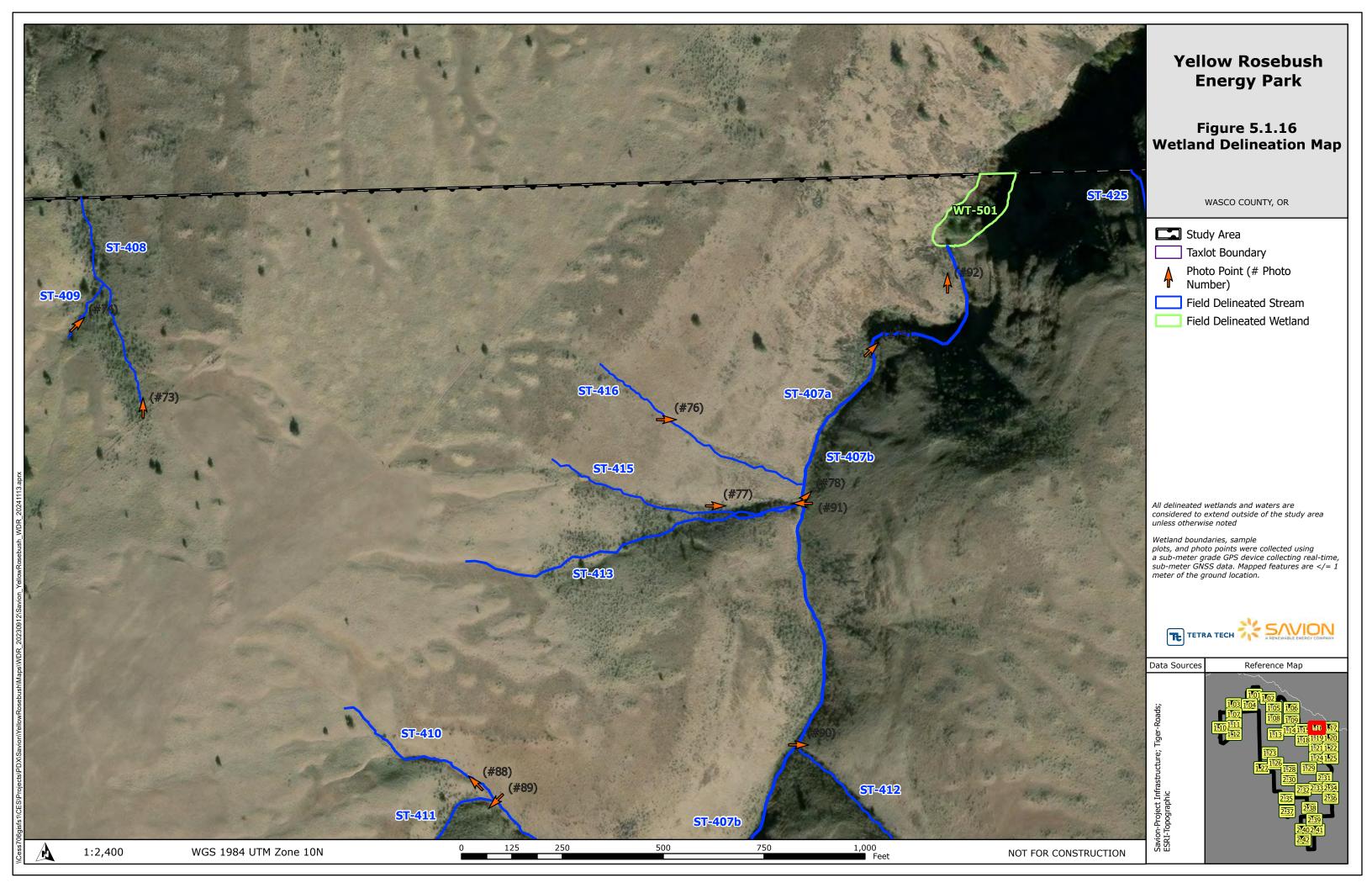


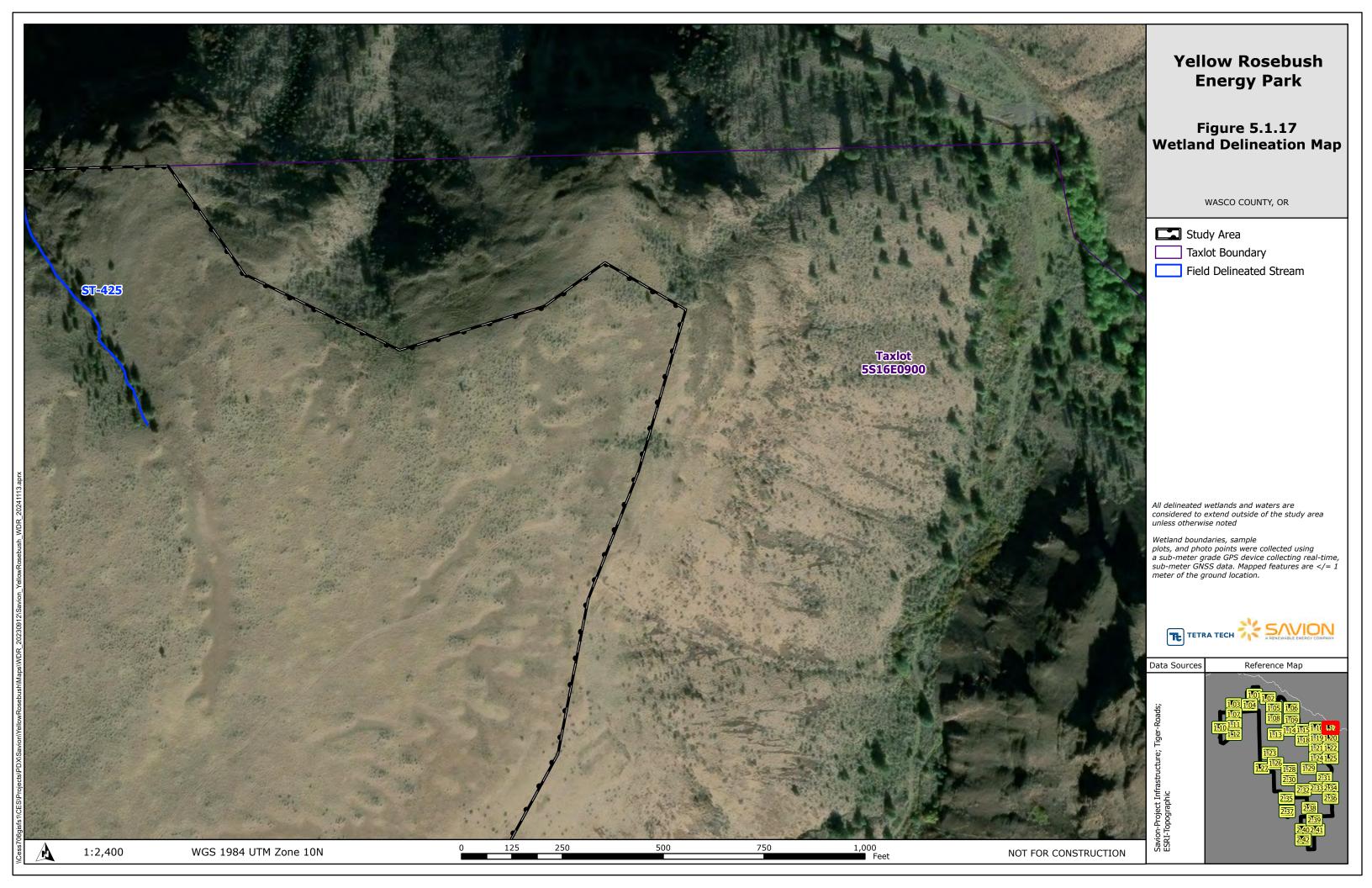


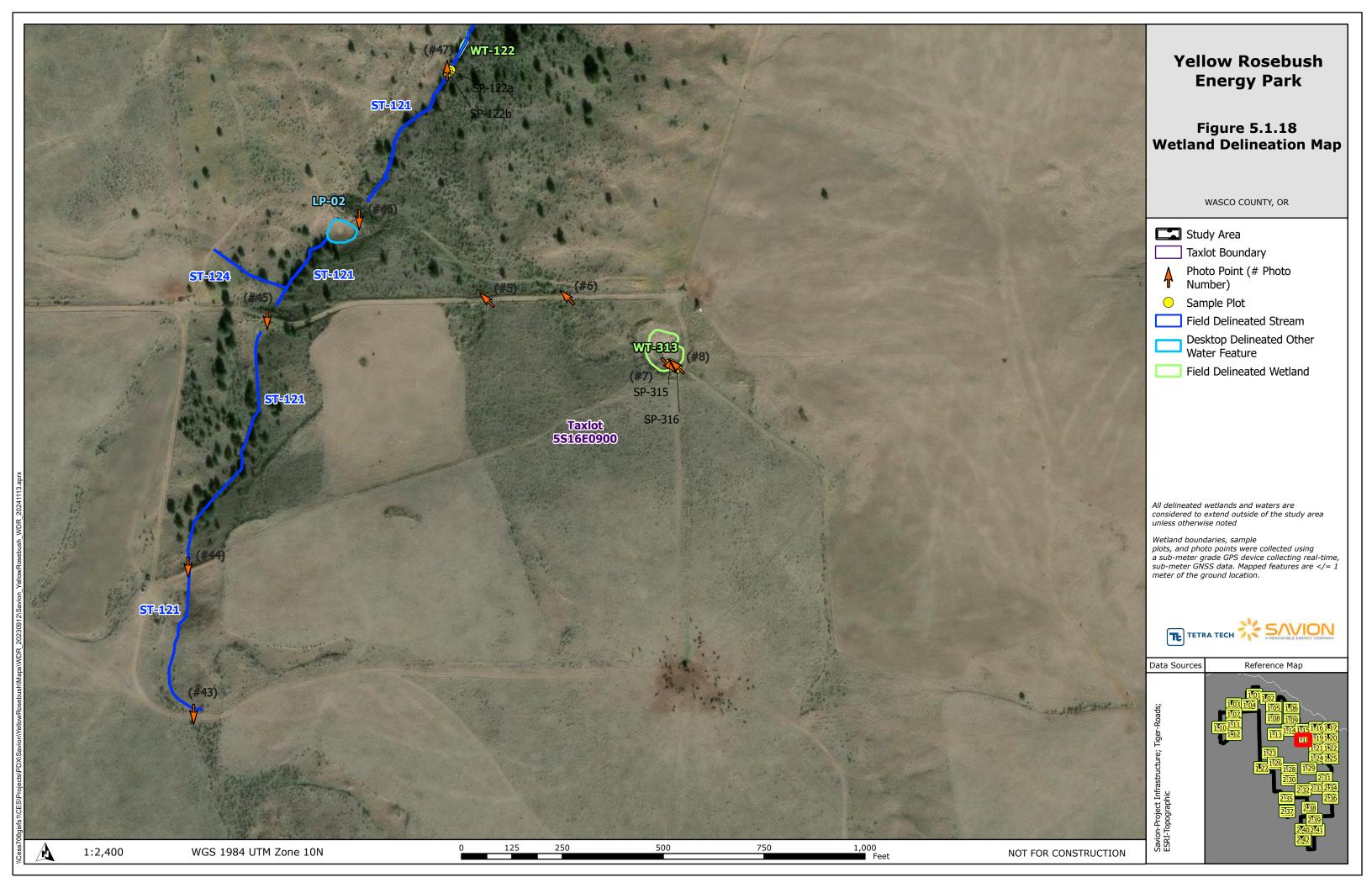


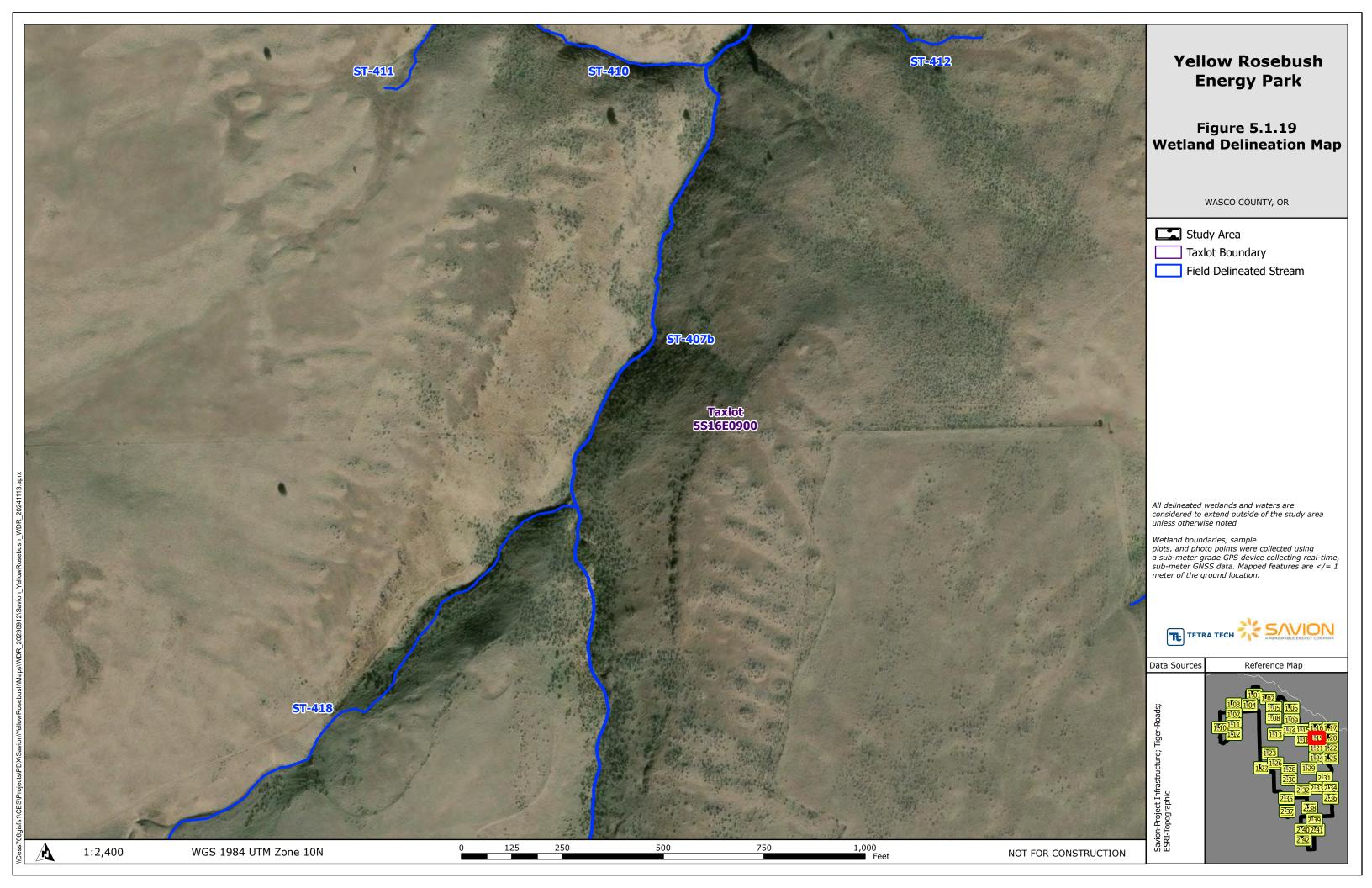


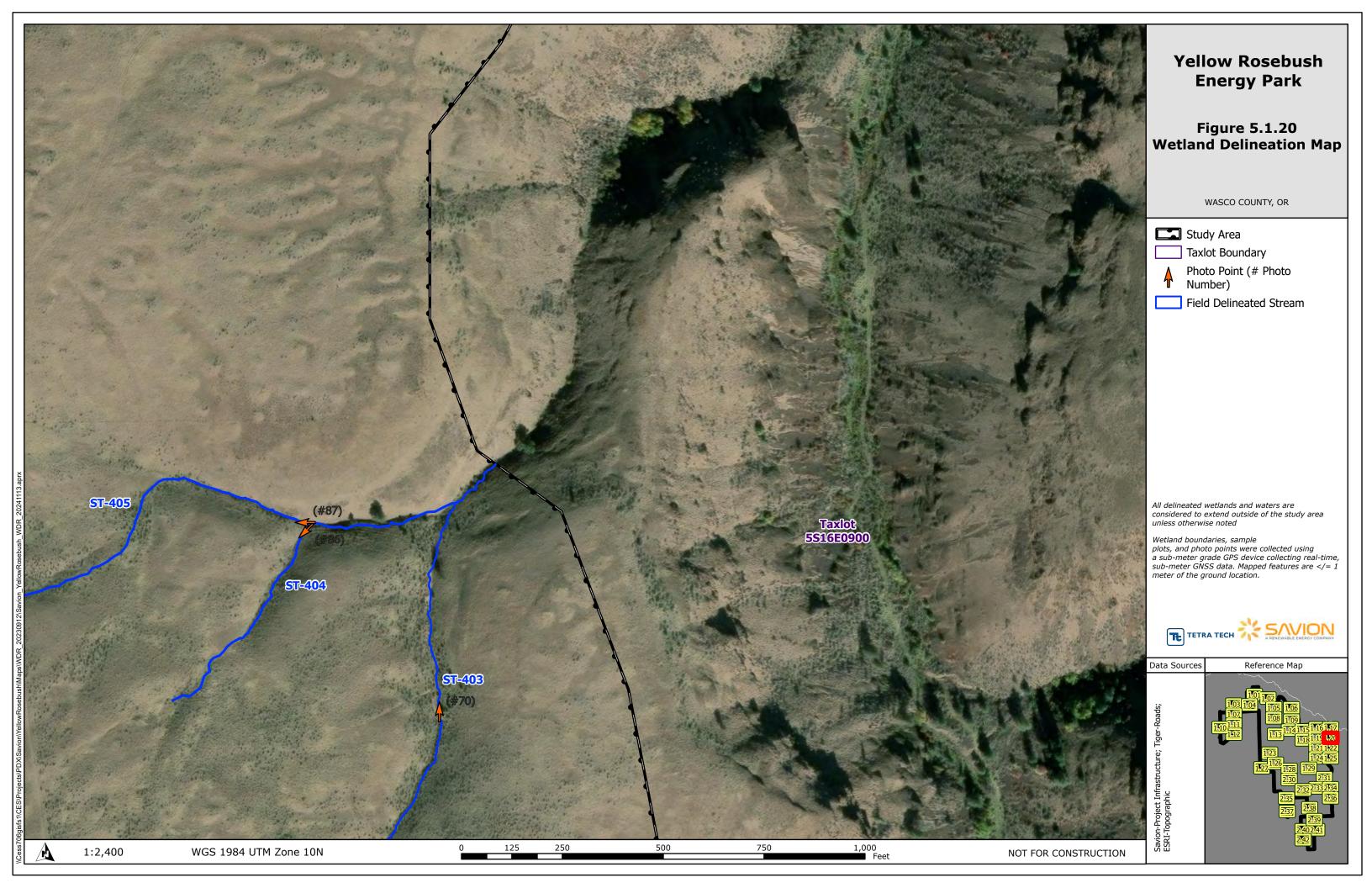


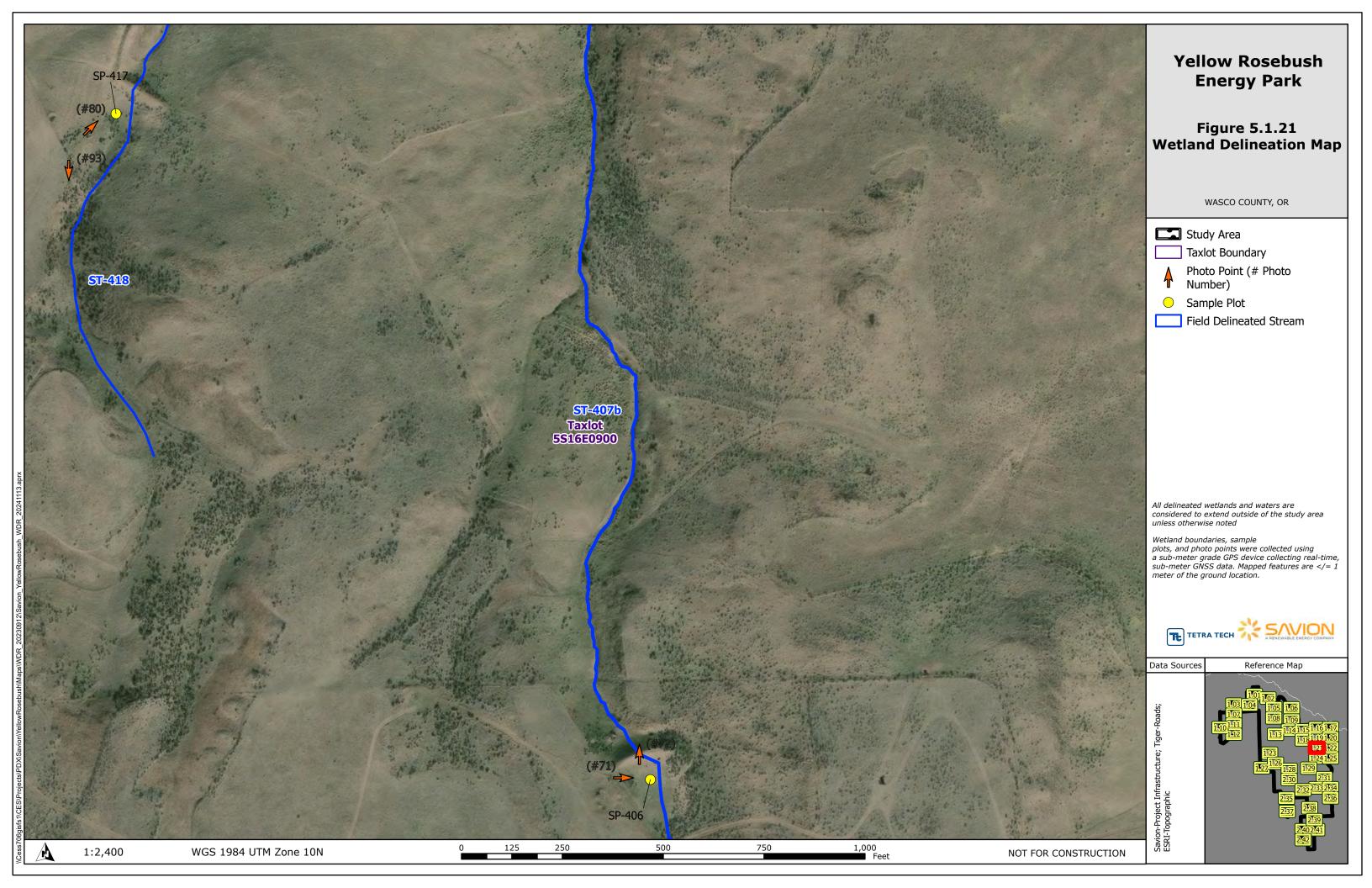


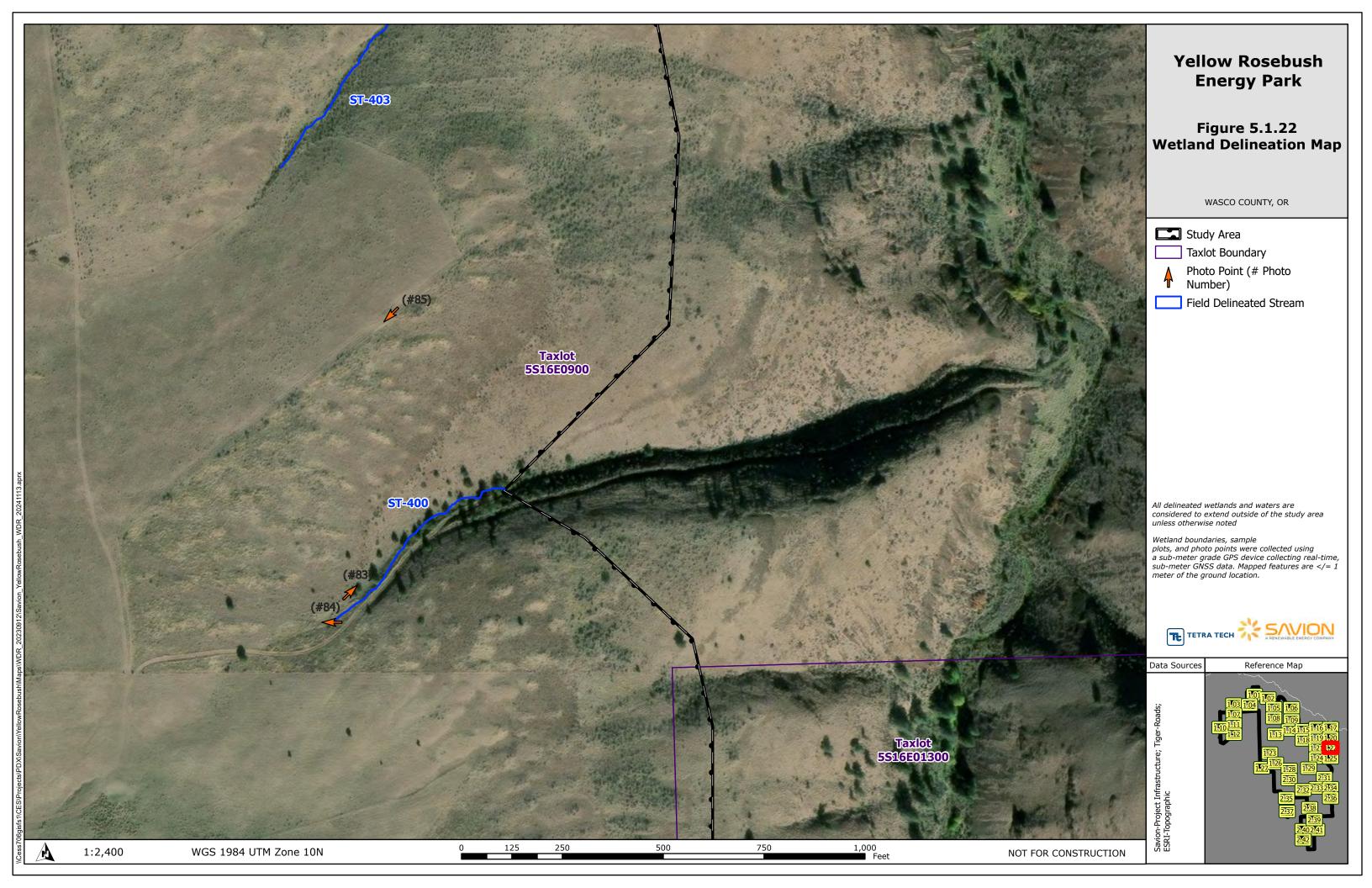




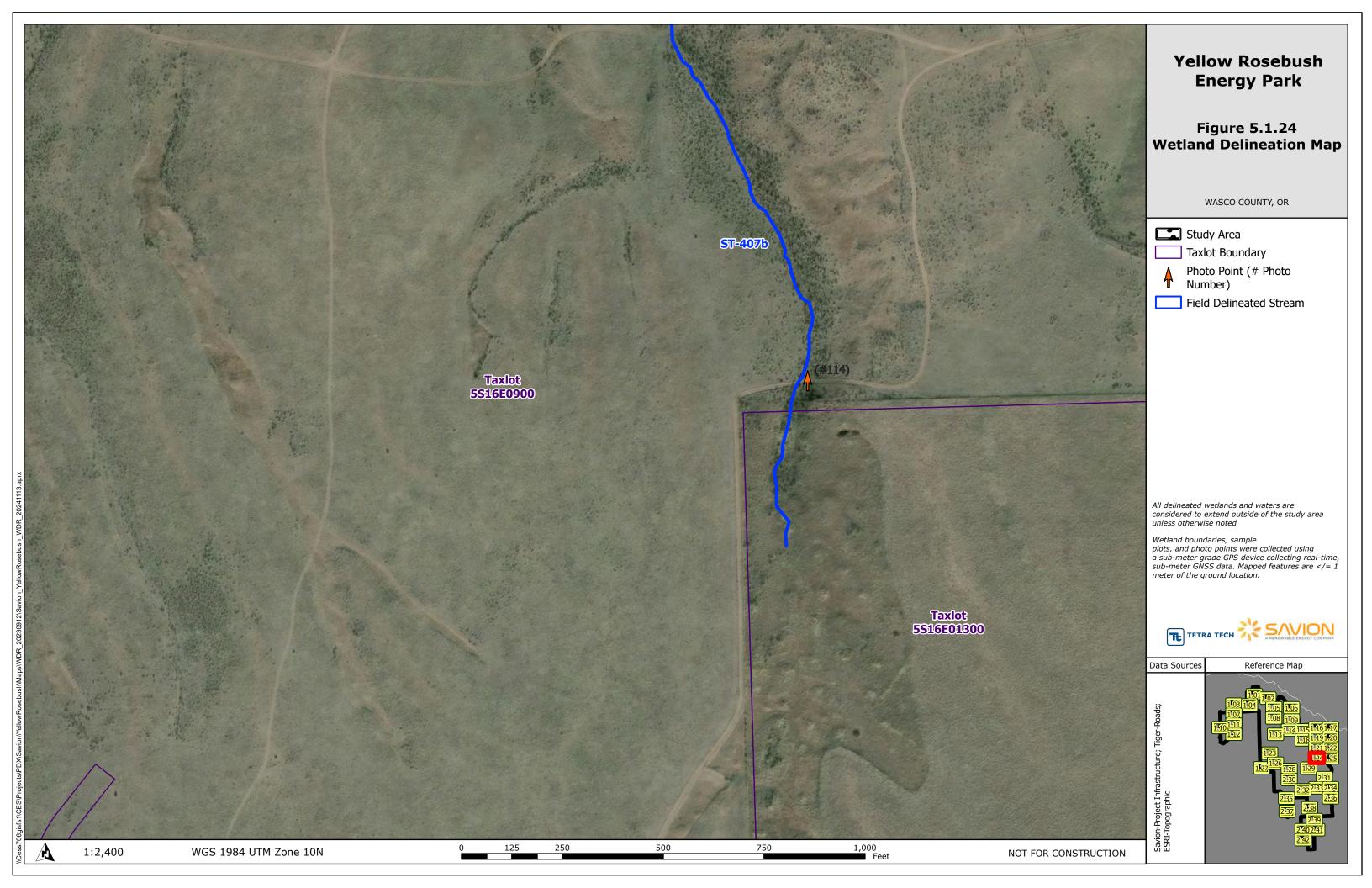


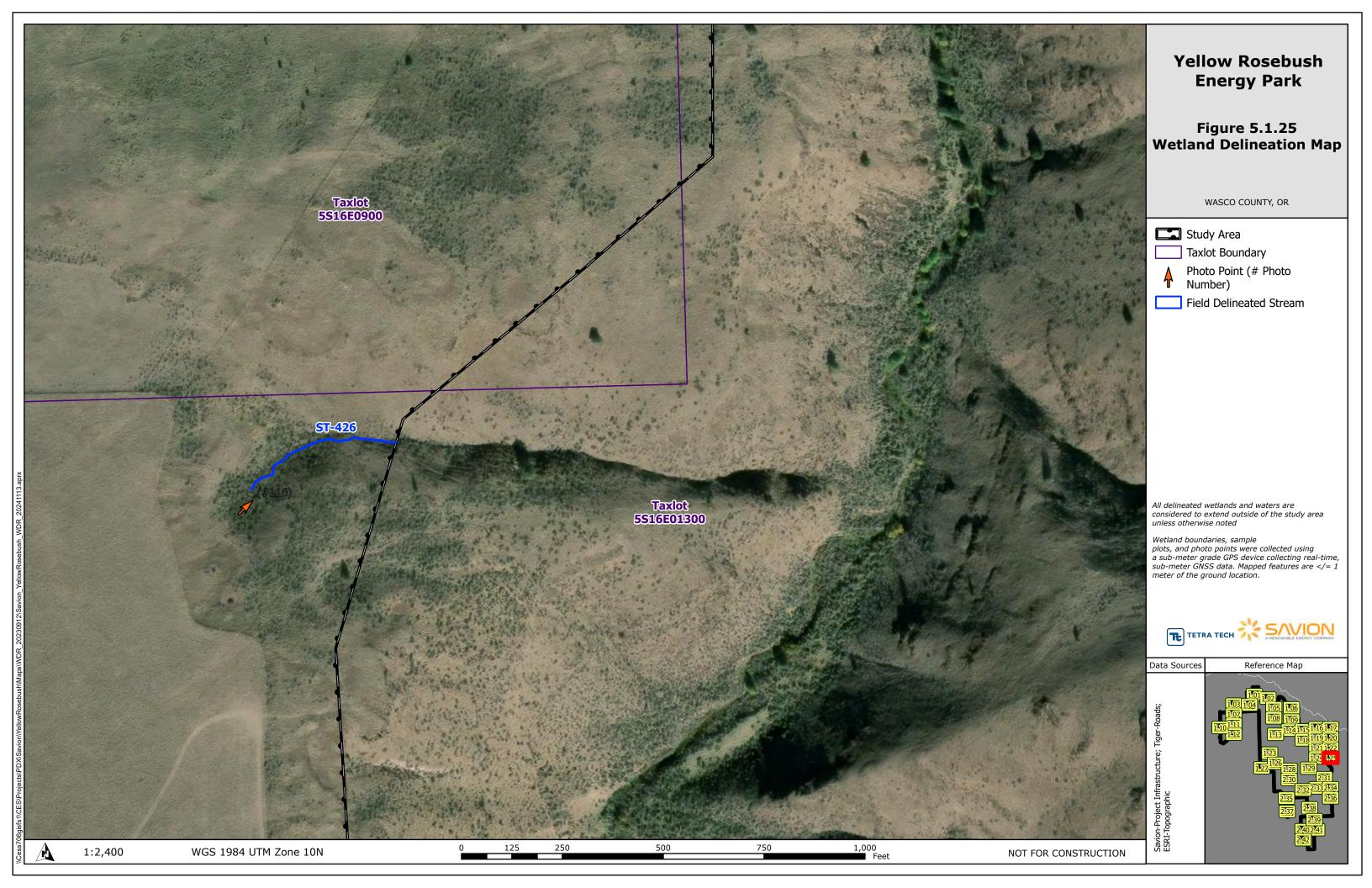


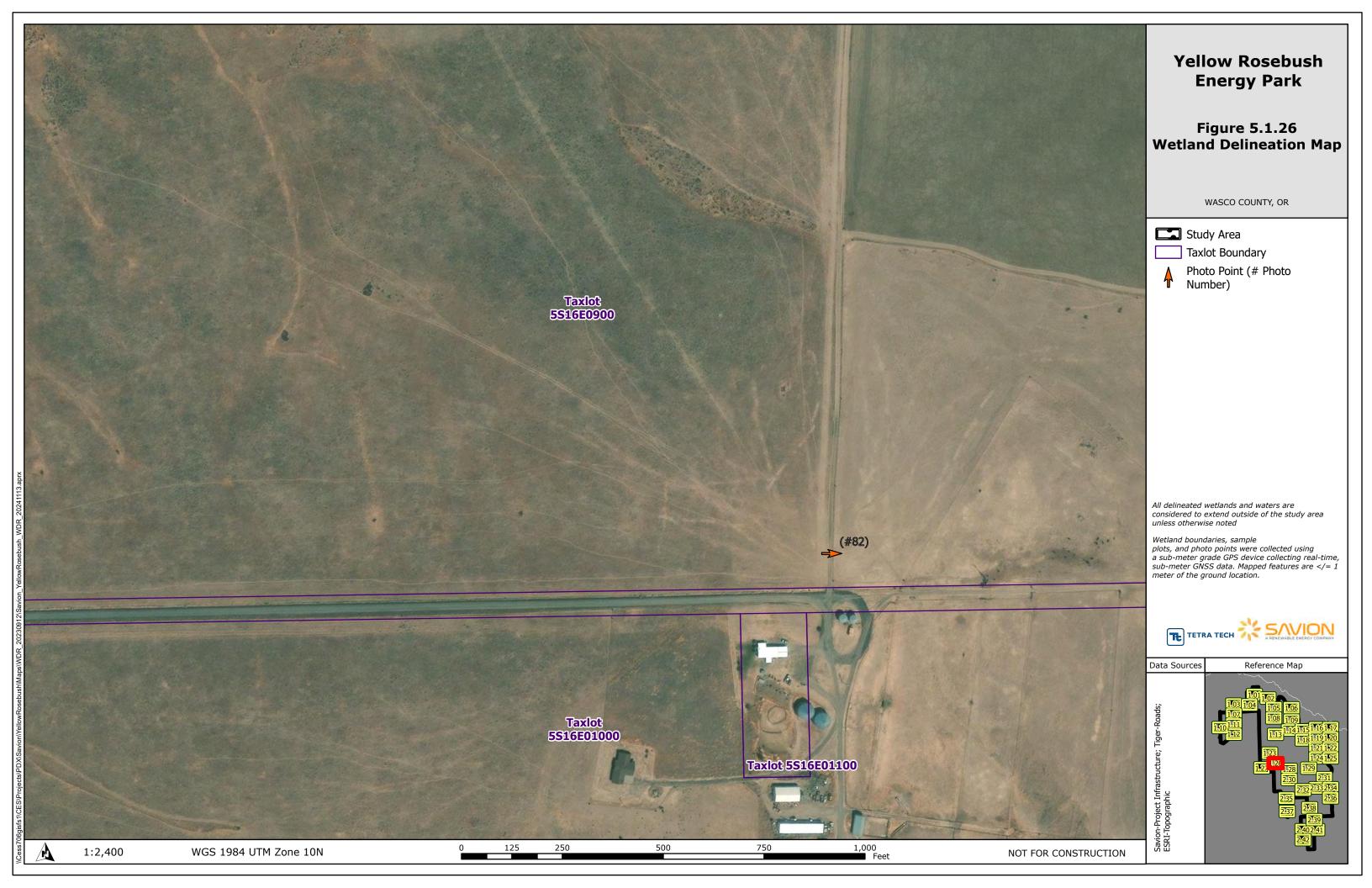


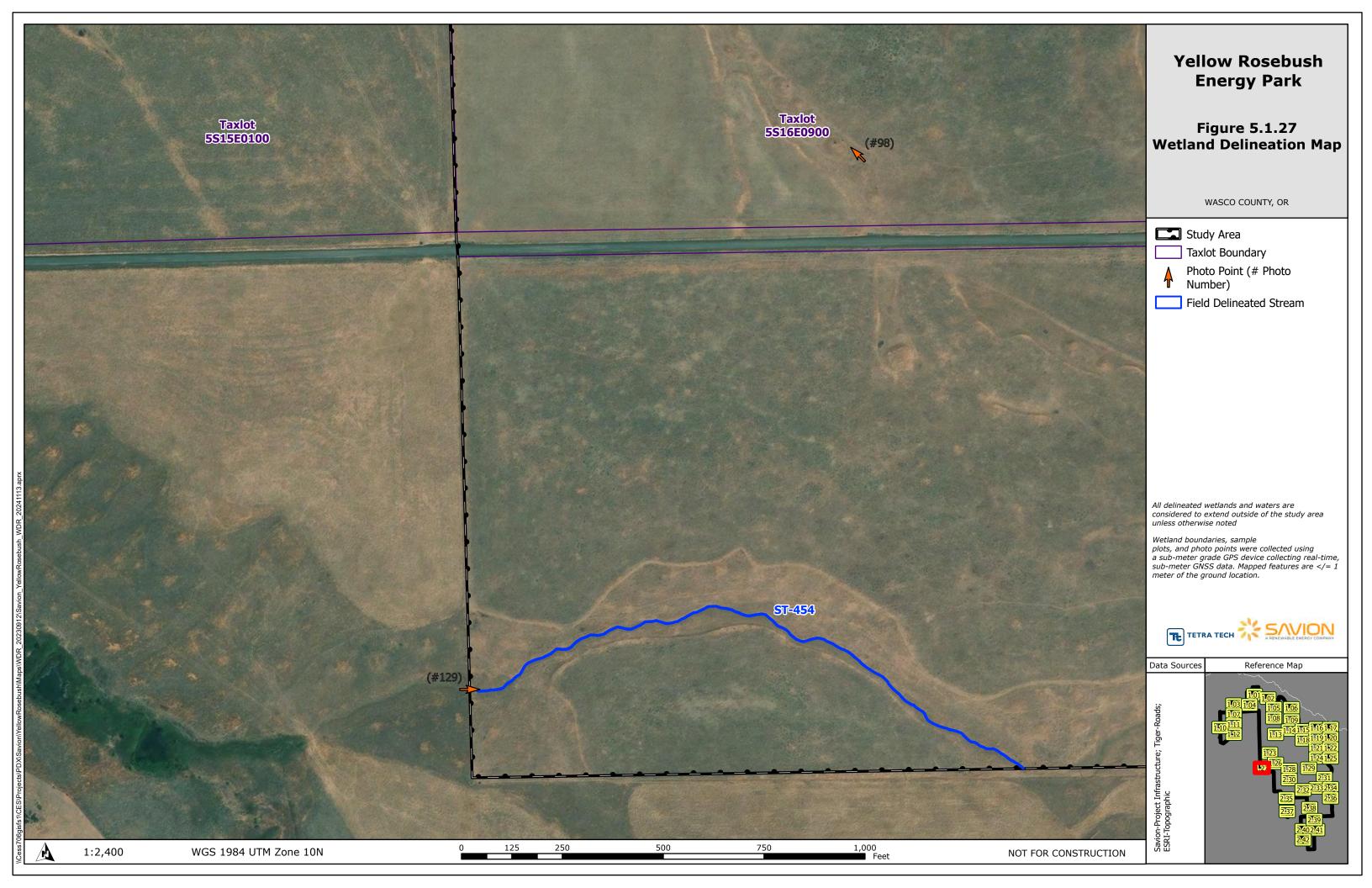


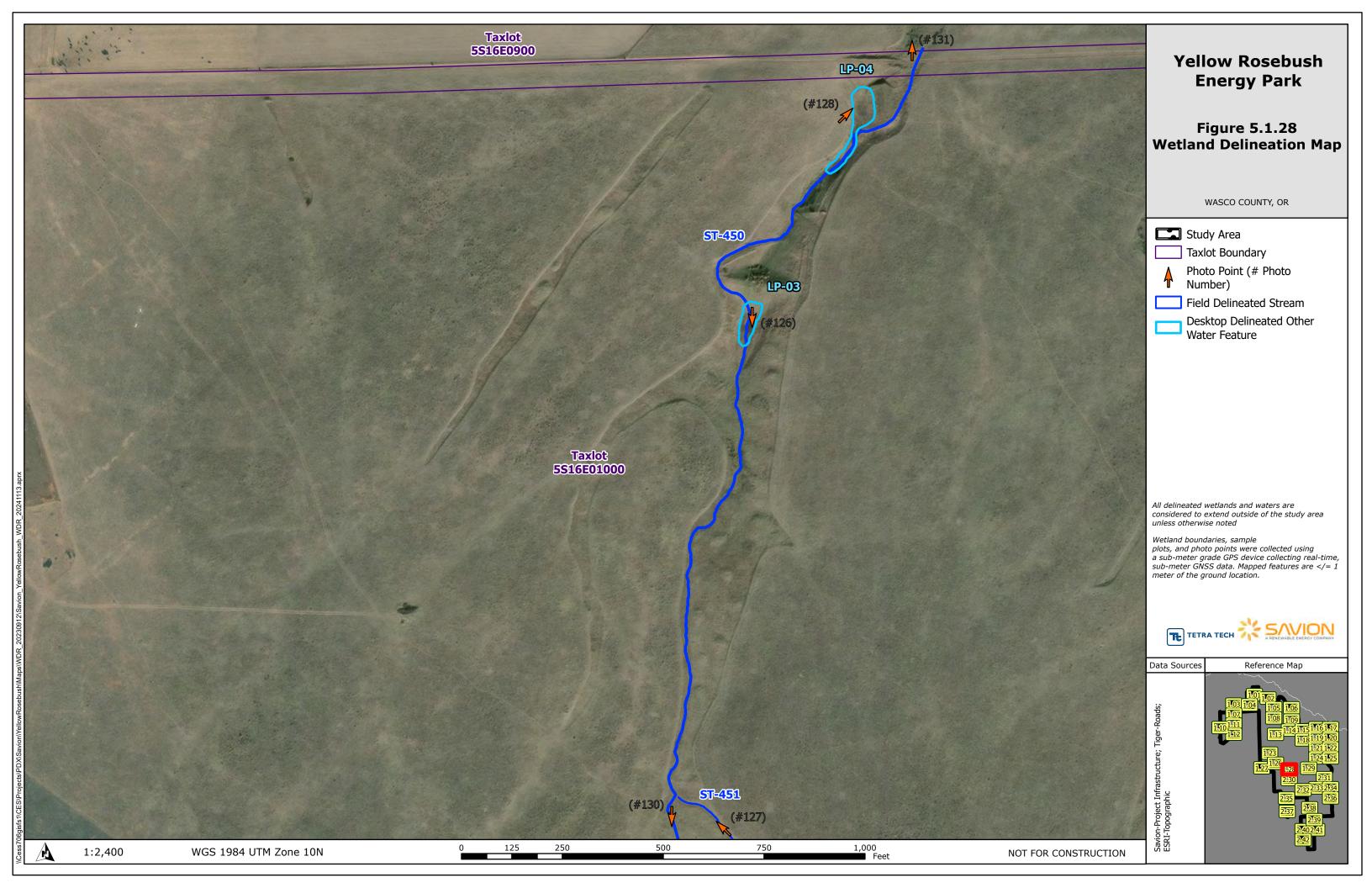




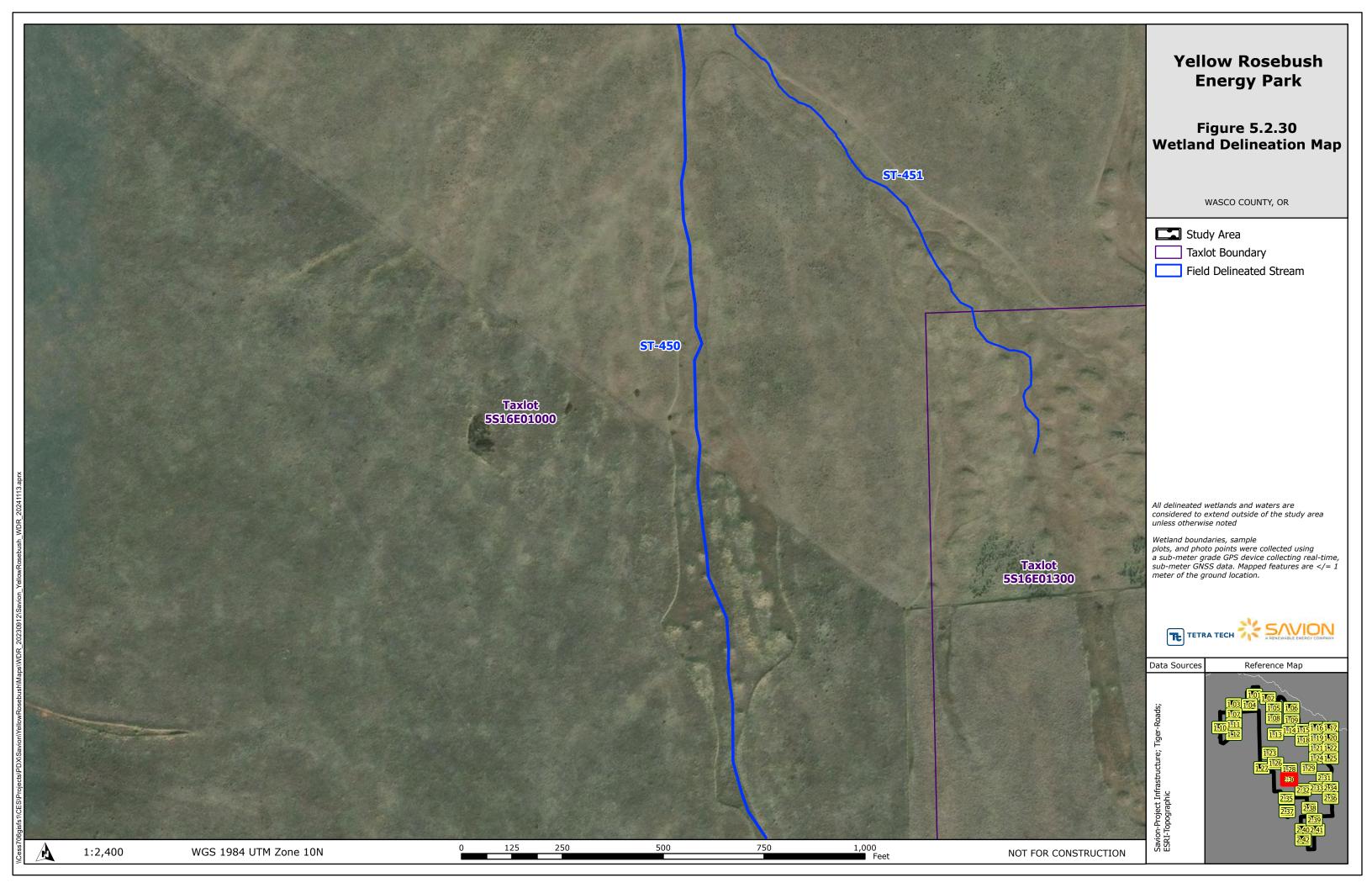


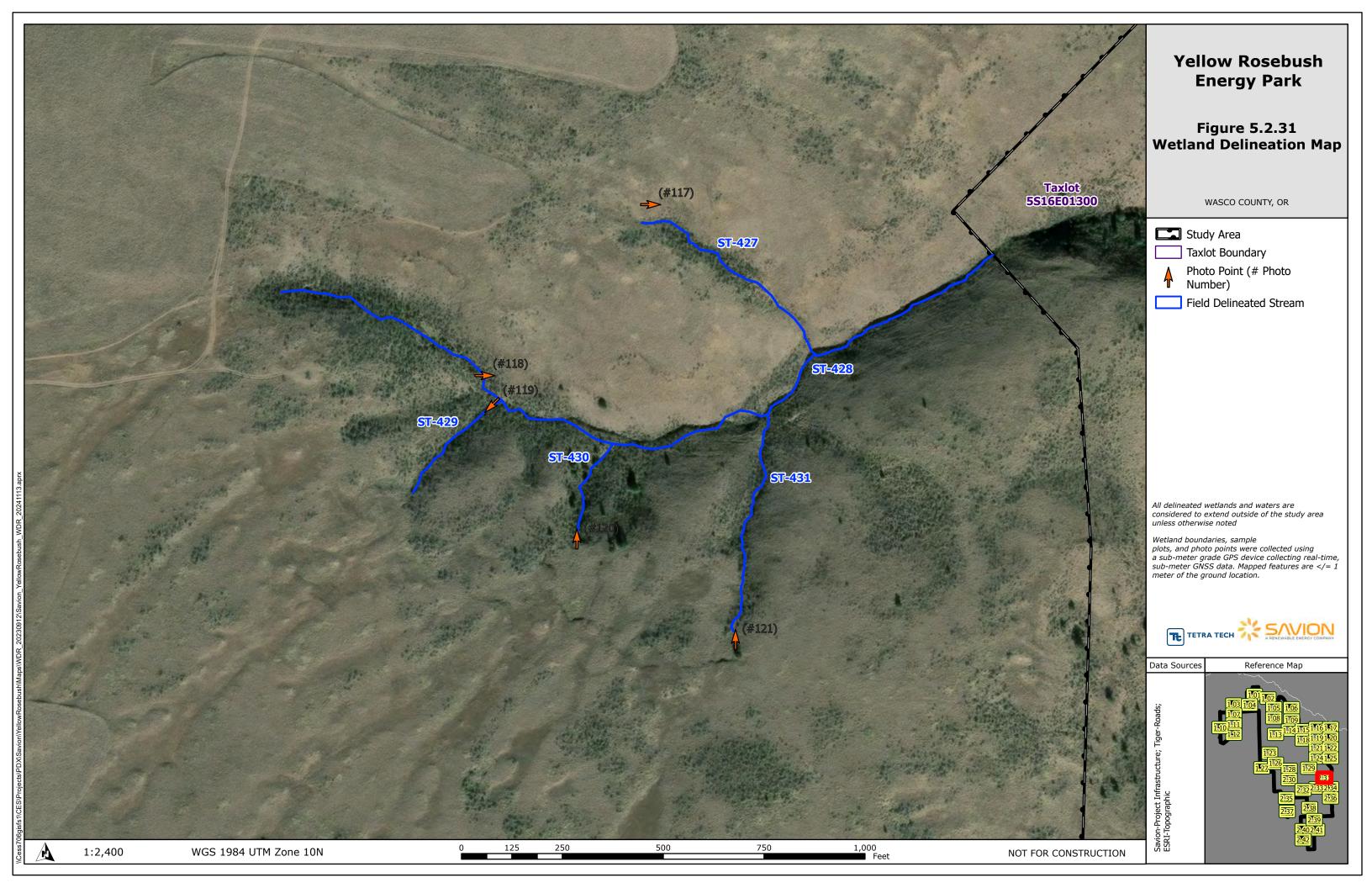


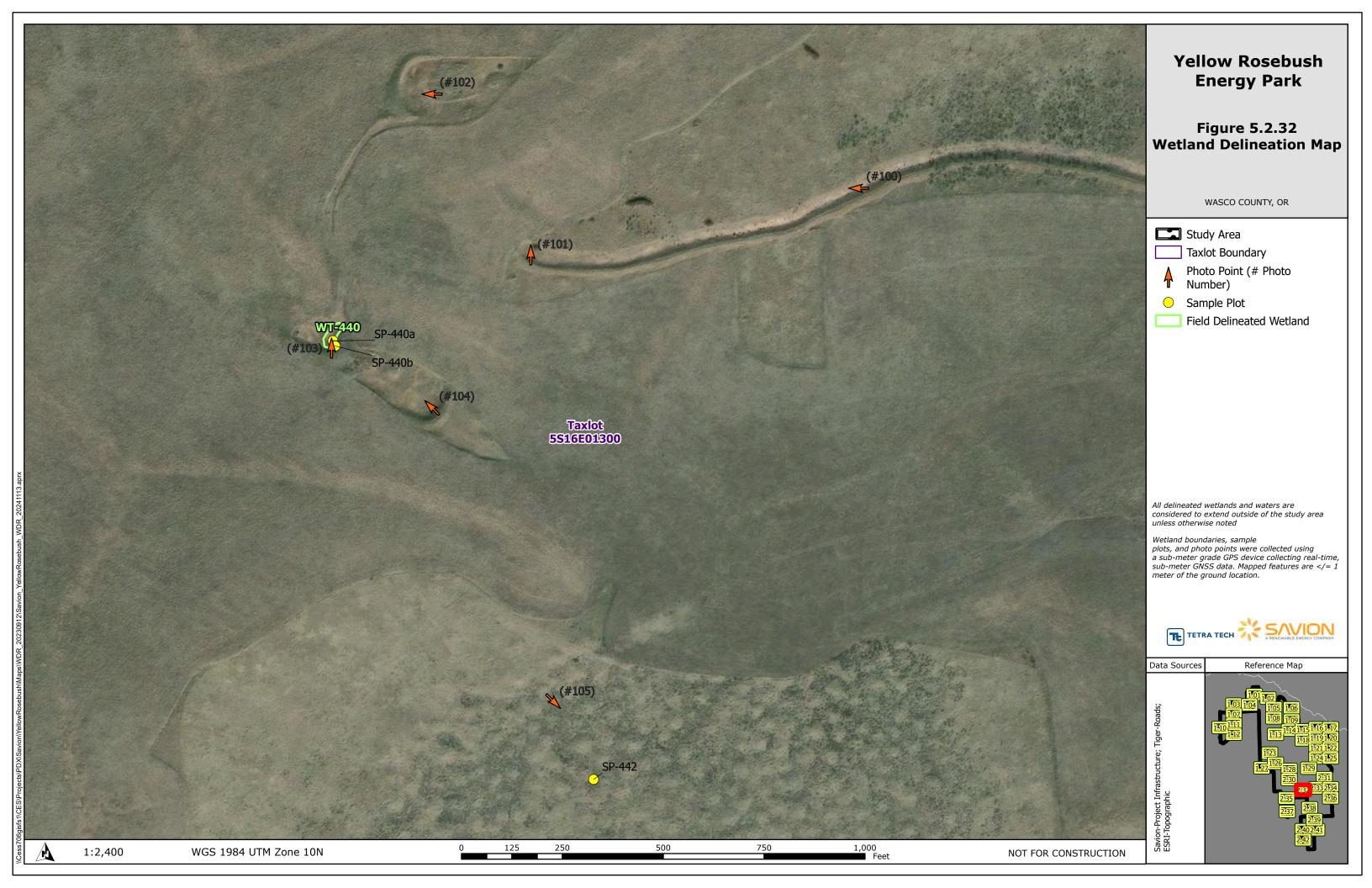


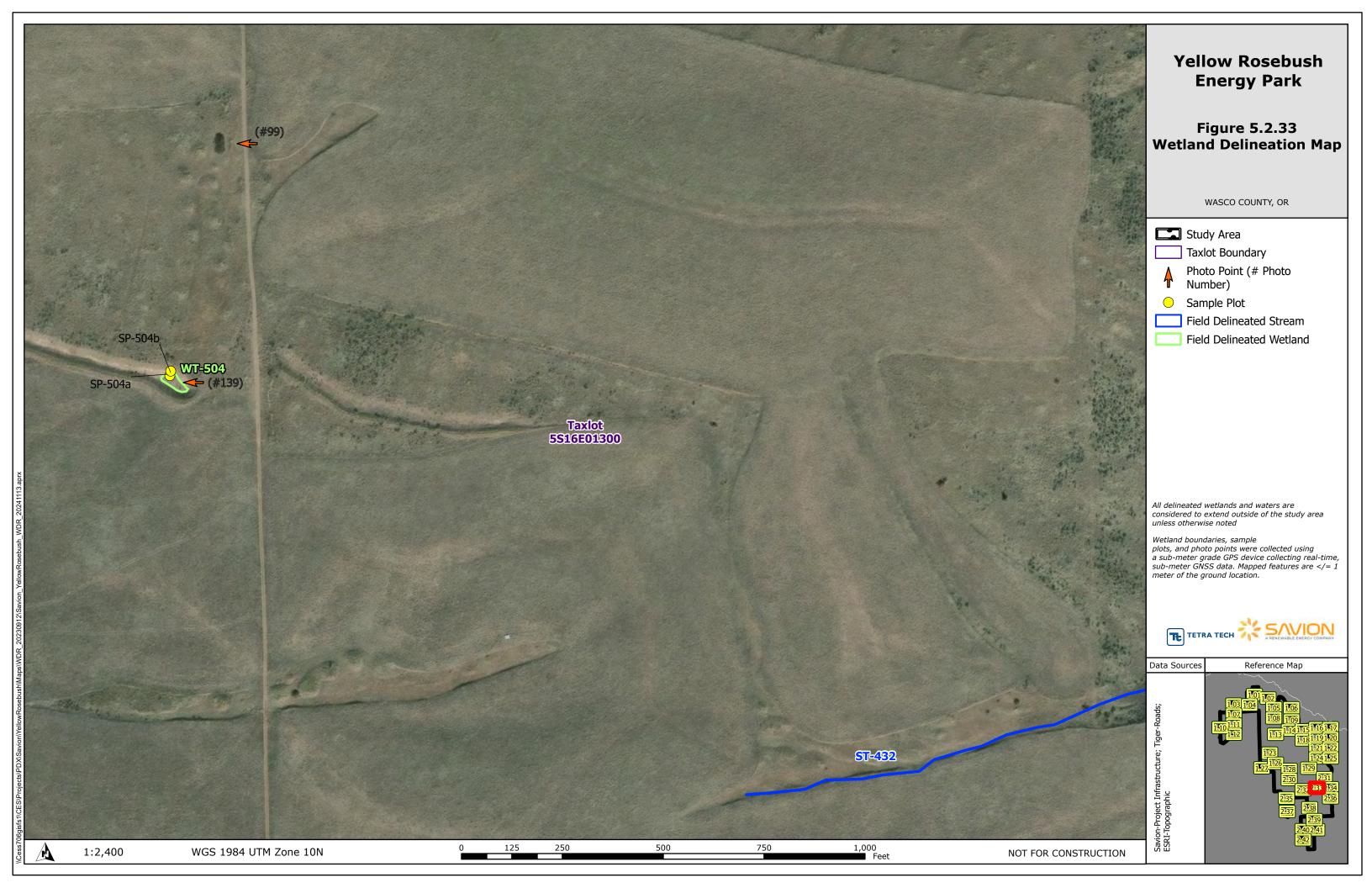


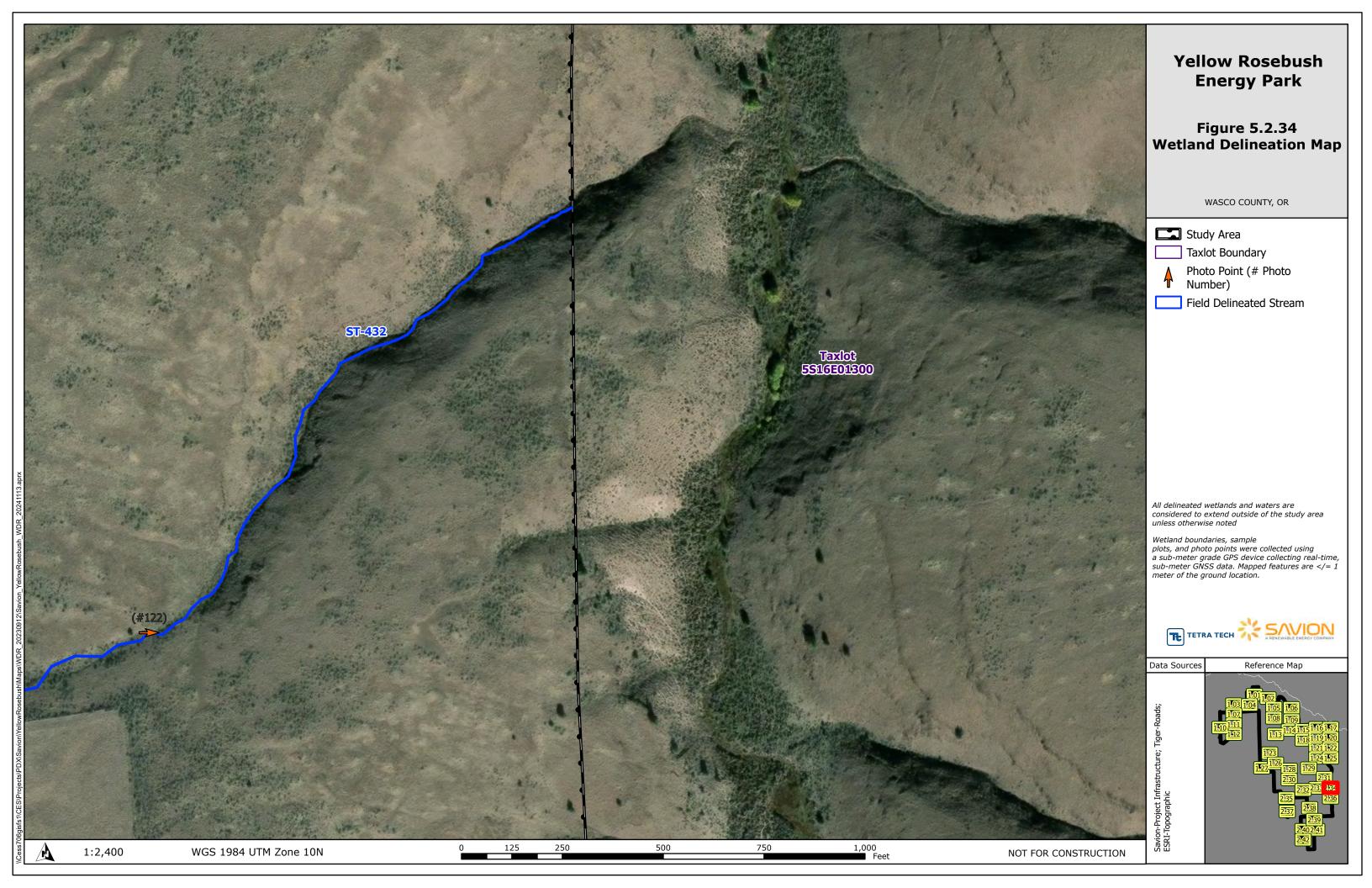


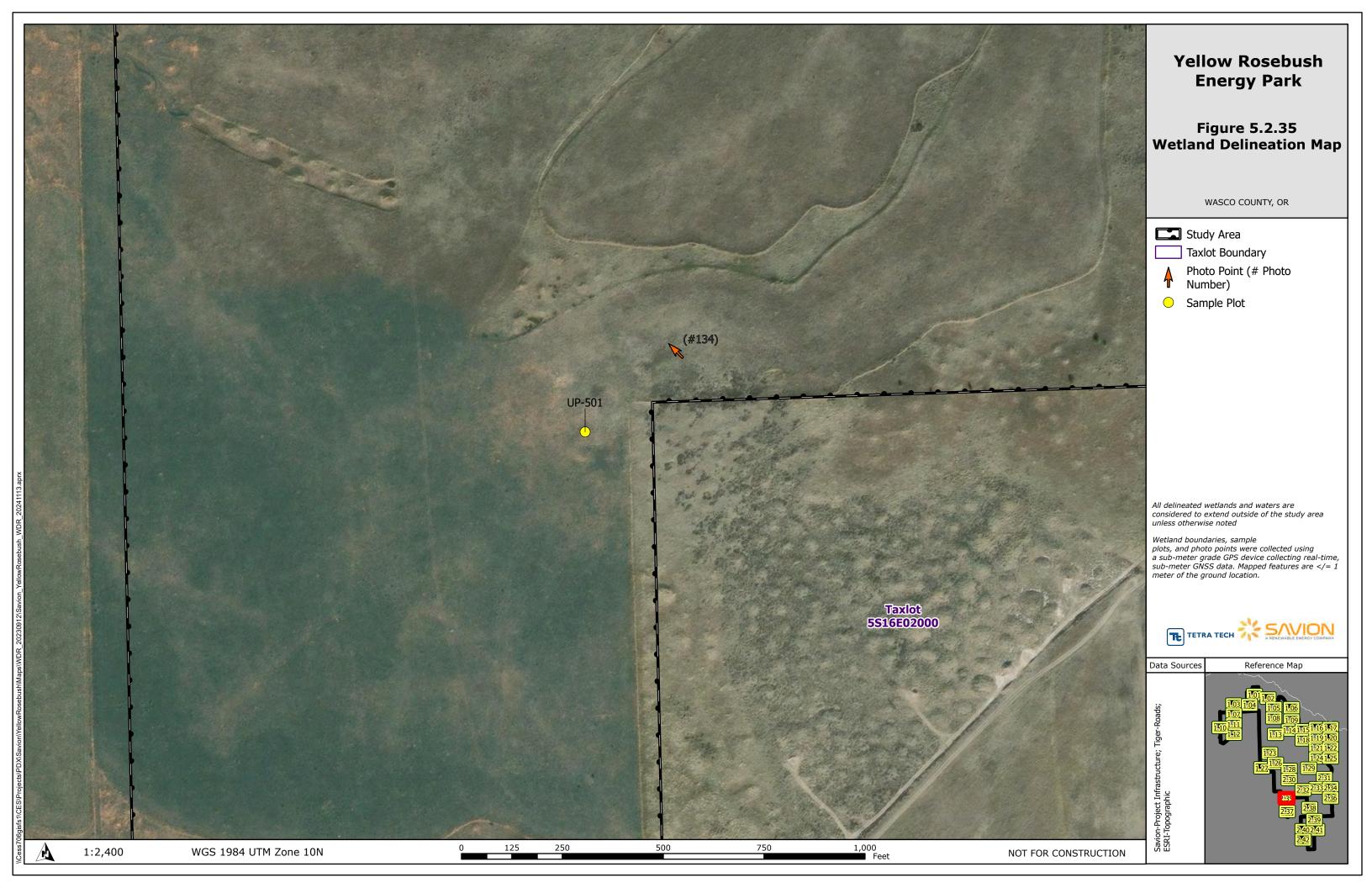


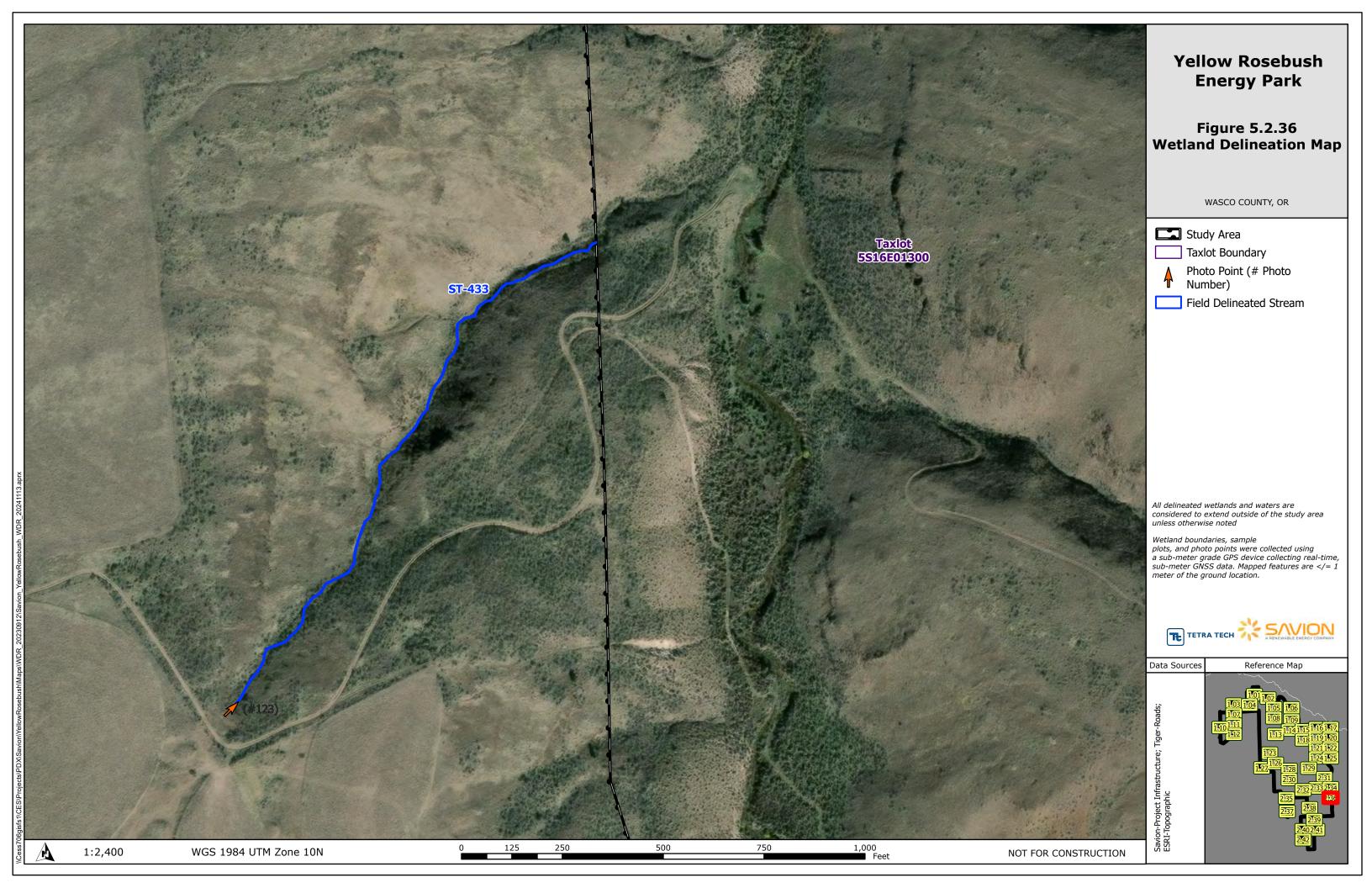


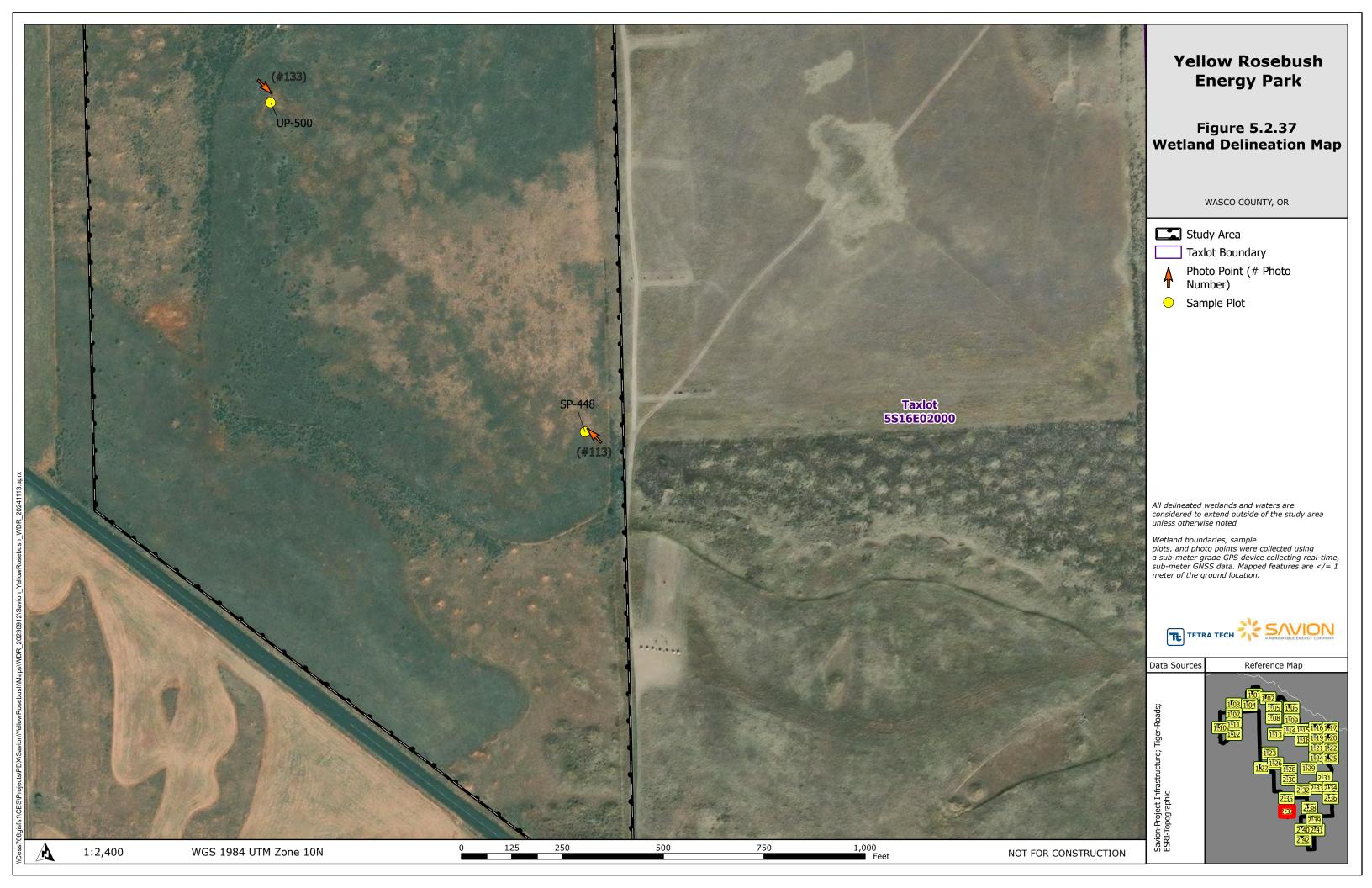




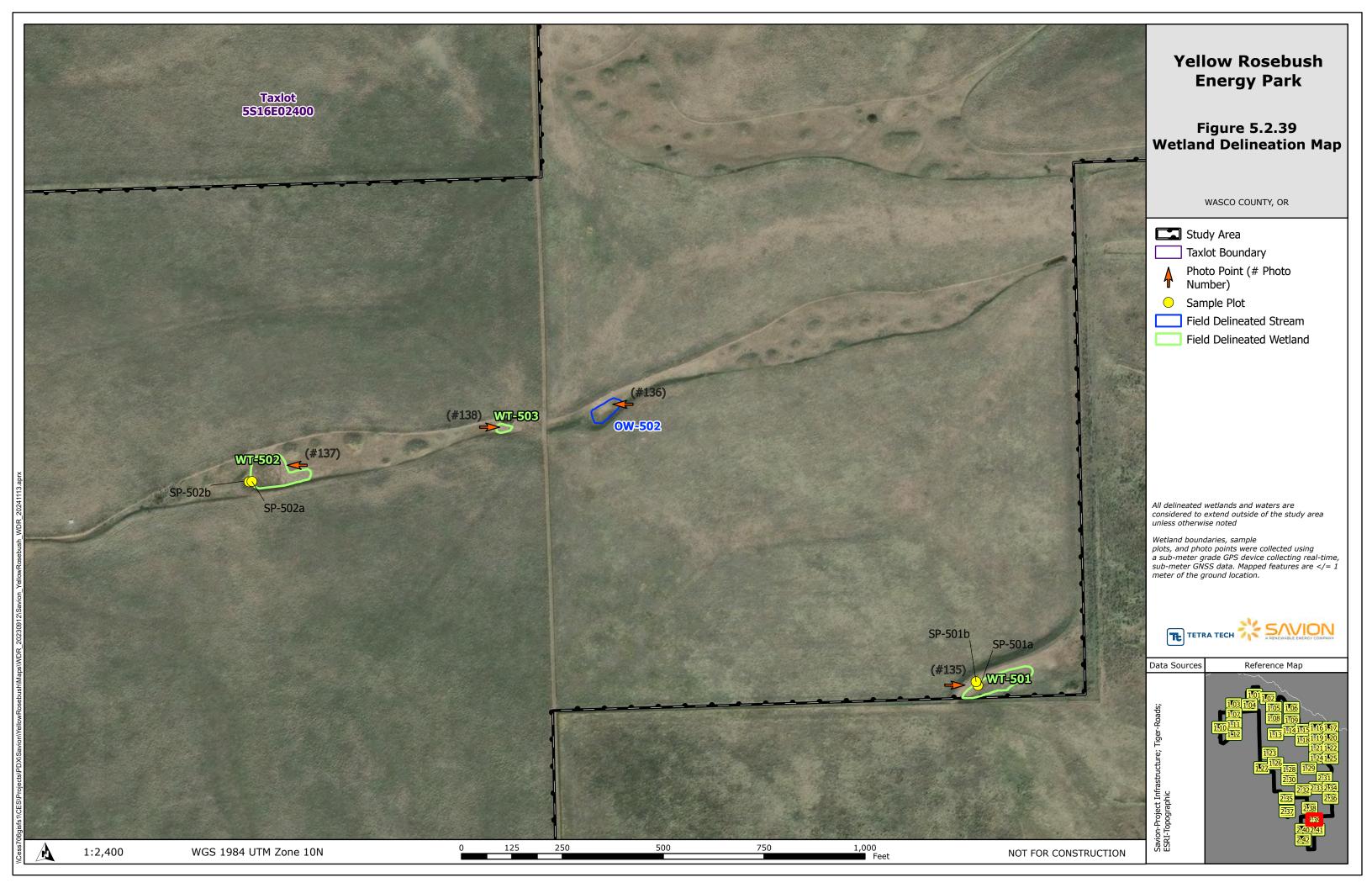






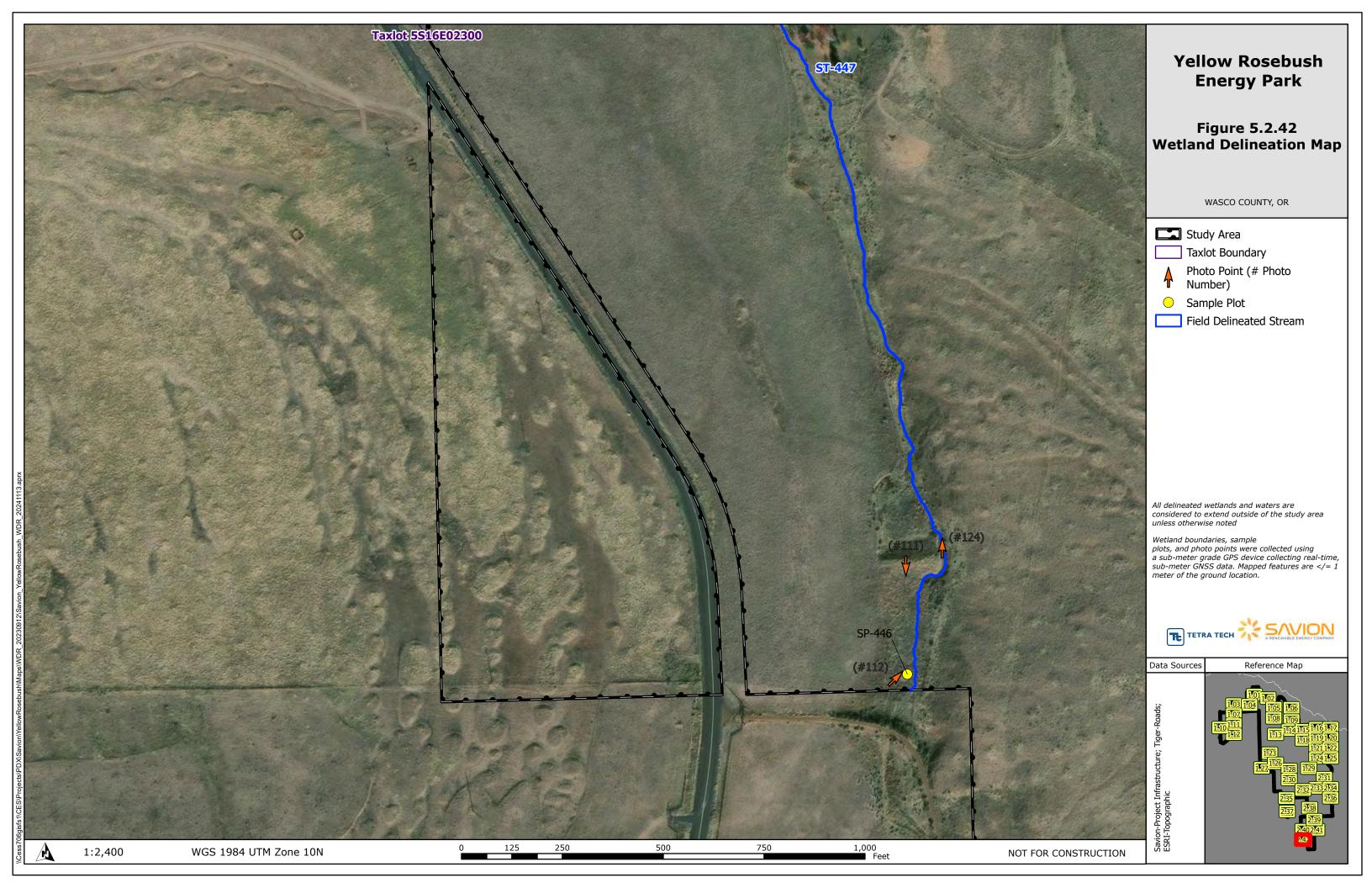






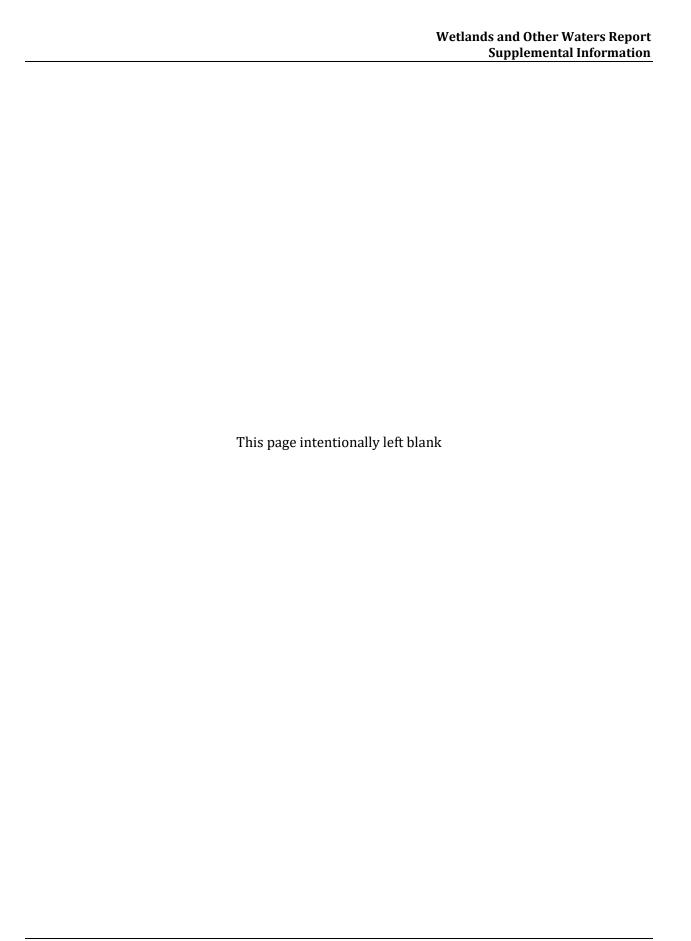






6

Appendix A.



| Project/Site: Yellow Rose Bush | | City/County | : Wasco C | ounty | Sampling | Date: 2024-1 | 1-06 |
|---|------------------|-------------|-------------|---|--------------------------|----------------------------------|---------------|
| Applicant/Owner: Savion | | | | State: Oregon | Sampling | Point: SP-500 |)a |
| Investigator(s): Lauren Stebbins, Edward Strohmaier | | Section, To | wnship, Ra | nge: sec 35 T004S R0 |)15E | | |
| Landform (hillslope, terrace, etc.): Depression | | | | _ | | Slope (%): | 0-2 |
| Subregion (LRR): LRR B, MLRA 8 | | | | | | | |
| Soil Map Unit Name: Condon silt loam, 2 to 12 percent slop | | | | | | | |
| Are climatic / hydrologic conditions on the site typical for this | | | | | | 10 | |
| | - | | | | | /oo / N | • |
| Are Vegetation, Soil, or Hydrology si | | | | 'Normal Circumstances | | | J |
| Are Vegetation, Soil, or Hydrology n SUMMARY OF FINDINGS – Attach site map s | | | | eeded, explain any ansv | | , | s, etc. |
| Hydrophytic Vegetation Present? Yes <u>√</u> No | | | | | | | |
| Hydric Soil Present? Yes No | | | e Sampled | | | | |
| Wetland Hydrology Present? Yes _ ✓ No | | with | in a Wetlaı | nd? Yes | <u>√</u> No_ | | |
| Remarks: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| VEGETATION – Use scientific names of plant | ts. | | | | | | |
| Tree Stratum (Plot size: 30' radius) | Absolute % Cover | | | Dominance Test wo | rksheet: | | |
| | | Species? | | Number of Dominant That Are OBL, FACV | | 3 | (\(\) |
| 1 2 | | | | That Ale OBL, FACV | v, or FAC. | | (A) |
| 3. | | | | Total Number of Don Species Across All S | | 3 | (B) |
| 4. | | | | | | | (D) |
| | _ | = Total Co | | Percent of Dominant That Are OBL, FACV | | 100.00 | (A/B) |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | - | | | | | (٨/٥) |
| 1 | | | | Prevalence Index w | | | |
| 2 | | | | Total % Cover of | | Multiply by: | _ |
| 3 | | | | | 15 x 1 | | _ |
| 4 | | | | · · | 40 x 2 | | _ |
| 5 | | | | · - | 25 x 3 0 x 4 | | _ |
| Herb Stratum (Plot size: 5' radius) | | = Total Co | ver | FACU species UPL species | | = 0 | _ |
| 1. Hordeum marinum | 25 | Υ | FAC | Column Totals: | 80 (A) | 170.00 | — (B) |
| 2. Polygonum polygaloides | 20 | Υ | FACW | Column Totals. | <u>oo</u> (A) | 170.00 | _ (b) |
| 3. Gnaphalium palustre | 20 | Y | FACW | Prevalence Ind | $ex = B/A = \frac{1}{2}$ | 2.12 | |
| 4. Epilobium campestre | 15 | N | OBL | Hydrophytic Vegeta | tion Indicate | ors: | |
| 5. Bromus tectorum | 5 | N | <u>NI</u> | ✓ Dominance Test | | | |
| 6 | | | | ✓ Prevalence Inde | | | |
| 7 | | | | Morphological A | | Provide suppor eparate sheet) | ting |
| 8 | | | | Problematic Hyd | | | in) |
| Woody Vine Stratum (Plot size: 30' radius) | 85.0 | = Total Co | ver | i robicinatio riya | ropriyilo vegi | otation (Explai | , |
| | | | | ¹ Indicators of hydric s | soil and wetla | ınd hvdroloav r | nust |
| 1 2 | | | | be present, unless di | | | |
| | | = Total Co | ver | Hydrophytic | | | |
| N.B. 0. 1: 11 1 0: 1 | | _ | | Vegetation | | | |
| % Bare Ground in Herb Stratum15 % Cover | ot Riotic C | rust | | Present? | Yes <u>√</u> | NO | |
| Remarks: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

SOIL Sampling Point: SP-500a

| Profile Desc | ription: (Describ | e to the dep | th needed to docur | nent the indic | cator or confire | m the absence of indicators.) | |
|--------------------------------|--|---------------|---------------------------------------|---------------------|-----------------------------------|--|---|
| Depth | Matrix | | | x Features | | | |
| (inches) | Color (moist) | % | Color (moist) | <u>%</u> <u>T</u> y | ype ¹ Loc ² | Texture Remarks | _ |
| 0-4 | 10YR 3/2 | 100 | | . —— — | | SICL | _ |
| 4-10 | 10YR 3/3 | 100 | | | | SICL | |
| | | | | | | | _ |
| | - | | | | | · - | - |
| | | | | | | · | - |
| | | | | | | - | _ |
| | | | | | | | _ |
| | | | | | | | |
| | | | | | | | _ |
| 1Typo: C-Co | noontrotion D_D | anletion PM | | Covered or | Cooted Sand C | Crains 2 continue DI — Doro Lining M—Matrix | - |
| | | | LRRs, unless other | | | Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : | |
| Histosol | | icable to all | Sandy Red | | | 1 cm Muck (A9) (LRR C) | |
| | oipedon (A2) | | Stripped Ma | | | 2 cm Muck (A10) (LRR B) | |
| Black His | | | | ky Mineral (F1 | 1) | Reduced Vertic (F18) | |
| | n Sulfide (A4) | | · | red Matrix (F2) | | Red Parent Material (TF2) | |
| | Layers (A5) (LRF | R C) | Depleted M | | , | ✓ Other (Explain in Remarks) | |
| | ck (A9) (LRR D) | | Redox Dark | Surface (F6) | | | |
| Depleted | Below Dark Surfa | ace (A11) | | ark Surface (F | 7) | | |
| | rk Surface (A12) | | | essions (F8) | | ³ Indicators of hydrophytic vegetation and | |
| | lucky Mineral (S1) | | Vernal Pool | s (F9) | | wetland hydrology must be present, | |
| | leyed Matrix (S4) | | | | | unless disturbed or problematic. | |
| | _ayer (if present): | | | | | | |
| Type: Ro | | | | | | | |
| Depth (inc | ches): 10 | | | | | Hydric Soil Present? Yes No | |
| Remarks: | | | | | | | |
| Problema | atic soils | | | | | | |
| | | | | | | | |
| | | | | | | | |
| HYDROLO | GY | | | | | | |
| | drology Indicator | e• | | | | | |
| _ | - | | المحمد على المحمد على | ٨ | | Casandar Indicators (2 or mare required) | |
| - | • | one required | d; check all that appl | • | | Secondary Indicators (2 or more required) | - |
| _ | Water (A1) | | Salt Crust | | | Water Marks (B1) (Riverine) | |
| | ter Table (A2) | | Biotic Crus | | 40) | Sediment Deposits (B2) (Riverine) | |
| Saturatio | , , | | Aquatic In | | | Drift Deposits (B3) (Riverine) | |
| ' | arks (B1) (Nonrive | • | Hydrogen | | | Drainage Patterns (B10) | |
| | nt Deposits (B2) (N | • | · · · · · · · · · · · · · · · · · · · | • | | oots (C3) Dry-Season Water Table (C2) | |
| | oosits (B3) (Nonri v | /erine) | Presence | | , , | Crayfish Burrows (C8) | ١ |
| _ | Soil Cracks (B6) | l Imagaan (D | | | n Tilled Soils (C | |) |
| · | on Visible on Aeria tained Leaves (B9 | | . — | lain in Remar | ks) | Shallow Aquitard (D3) ✓ FAC-Neutral Test (D5) | |
| Field Observ | - |) | Other (EX | nain in Nemai | <u> </u> | <u>▼</u> PAC-Neutral Test (D3) | |
| | | Vaa | Na / Dandh (in | -h\· | | | |
| Surface Wate | | | No Depth (in | | | | |
| Water Table | | | No Depth (in | | | | |
| Saturation Pr (includes cap | | Yes | No Depth (in | ches): | Wet | tland Hydrology Present? Yes <u>✓</u> No | - |
| | | m gauge, mo | onitoring well, aerial | hotos, previo | us inspections). | , if available: | |
| | ` | 0 0 , | 5 , | · · | , | • | |
| Remarks: | | | | | | | |
| rtomanto. | | | | | | | |
| | | | | | | | |
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| Project/Site: Yellow Rose Bush | | City/Count | ty: Wasco C | ounty | Sar | mpling Da | ate: 2024-11 | 1-06 |
|--|-----------------|-------------|------------------------------|---------------------------------------|--------------|-----------|------------------------------|---------|
| Applicant/Owner: Savion | | | | State: Orego | on Sar | npling Po | int: <u>SP-500</u> | b |
| Investigator(s): Lauren Stebbins, Edward Strohmaier | | Section, T | ownship, Ra | nge: <u>sec 35 T004S</u> | R015E | | | |
| Landform (hillslope, terrace, etc.): Flat | | Local relie | ef (concave, | convex, none): Non | e | | Slope (%): | 0-2 |
| Subregion (LRR): LRR B, MLRA 8 | Lat: 45. | 170866 | | _ Long: <u>-120.90065</u> | 53 | | Datum: WG | S84 |
| Soil Map Unit Name: Condon silt loam, 2 to 12 percent si | opes | | | NWI cla | assification | n: None | | |
| Are climatic / hydrologic conditions on the site typical for t | his time of yea | ar? Yes_ | ✓ No_ | (If no, explain | n in Rema | rks.) | | |
| Are Vegetation, Soil, or Hydrology | _significantly | disturbed? | ? Are ' | 'Normal Circumstan | ces" prese | ent? Yes | . <u> </u> |) |
| Are Vegetation, Soil, or Hydrology | | | | eeded, explain any a | | | | |
| SUMMARY OF FINDINGS – Attach site ma | | | | ocations, trans | ects, im | portan | t features | s, etc. |
| Hydrophytic Vegetation Present? Yes | No 🗸 | | | | | | | |
| Hydric Soil Present? Yes | | | the Sampled thin a Wetlar | | | No. | / | |
| Wetland Hydrology Present? Yes | No | Wit | illili a vvetiai | id: Tes | | NO | <u>/</u> | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| VEGETATION – Use scientific names of pla | nte | | | | | | | |
| TEGETATION COCCONING Names of pic | Absolute | Dominar | nt Indicator | Dominance Test | workshee | et: | | |
| Tree Stratum (Plot size: 30' radius) | | | ? Status | Number of Domin | | | | |
| 1 | | | | That Are OBL, FA | | | 0 | (A) |
| 2 | | | | Total Number of D | Oominant | | | |
| 3 | | | | Species Across A | II Strata: | | 2 | (B) |
| 4 | _ | | | Percent of Domina | | | 0.00 | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | = Total C | over | That Are OBL, FA | CW, or FA | AC: | 0.00 | (A/B) |
| 1 | | | | Prevalence Index | workshe | eet: | | |
| 2 | | | | Total % Cove | r of: | Mı | ultiply by: | |
| 3 | | | | OBL species _ | 0 | _ x 1 = | 0 | _ |
| 4 | | | | FACW species _ | | | | _ |
| 5 | | | | FAC species | | | | _ |
| Herb Stratum (Plot size: 5' radius) | 0 | = Total C | Cover | FACU species _ | | _ x 4 = | | - |
| 1. Bromus tectorum | 55 | Υ | NI | UPL species | | x 5 = | | (D) |
| Festuca idahoensis | | Y | FACU | Column Totals: _ | 33 | _ (A) | 140.00 | _ (B) |
| 3. Achillea millefolium | | N | FACU | Prevalence | Index = B | A = 4.0 | 1 | _ |
| 4. Thinopyrum intermedium | 40 | N | NI | Hydrophytic Veg | etation In | dicators | : | |
| 5 | | | | Dominance T | | | | |
| 6 | | | | Prevalence In | | | | |
| 7 | | | | Morphologica | | | vide support arate sheet) | ting |
| 8 | | | | Problematic H | | | , | n) |
| Woody Vine Stratum (Plot size: 30' radius) | 100.0 | = Total C | cover | | ., a. op., , | o vogota | tion (Explai | ••• |
| 1 | | | | ¹ Indicators of hydronical | ic soil and | d wetland | hydrology n | nust |
| 2. | | | | be present, unless | | | | |
| | | = Total C | over | Hydrophytic | | | | |
| % Bare Ground in Herb Stratum % Cov | ver of Biotic C | ruet | | Vegetation Present? | Voc | N | o | |
| Remarks: | TOT OF DIOUIC C | | | 1 1636III: | 169 | 'N | ~ <u> </u> | |
| nomano. | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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SOIL Sampling Point: SP-500b

| Profile Desc | cription: (Descri | e to the depth | needed to docu | ment the i | ndicator | or confirm | the absence of | indicators.) | |
|--------------------------------|-----------------------------|-----------------|---------------------|-------------|------------|------------------|----------------------------|---------------------------|-------------------|
| Depth | Matrix | | | ox Feature | | 12 | Tantonia | | _ |
| (inches) | Color (moist) | | Color (moist) | % | Type' | Loc ² | <u>Texture</u> | Remark | <u>S</u> |
| 0-8 | 10YR 2/2 | 100 | | | | | SIL _ | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | <u> </u> | | | | | | | |
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| | | | | | | | | | |
| 1Type: C=C | oncentration, D=D | enletion RM-R | educed Matrix C | S-Covered | d or Coate | d Sand Gr | ains ² l ocatio | on: PL=Pore Lining | M-Matrix |
| | Indicators: (App | | | | | d Sand On | | r Problematic Hydr | |
| Histosol | | | Sandy Red | | , | | | ek (A9) (LRR C) | |
| | oipedon (A2) | | Stripped M | | | | | ck (A10) (LRR B) | |
| - | istic (A3) | | | cky Minera | l (F1) | | | Vertic (F18) | |
| | en Sulfide (A4) | | | yed Matrix | . , | | | nt Material (TF2) | |
| Stratified | d Layers (A5) (LR | R C) | Depleted N | Matrix (F3) | | | Other (Ex | plain in Remarks) | |
| | ıck (A9) (LRR D) | | | k Surface (| ` ' | | | | |
| | d Below Dark Surf | ace (A11) | | Dark Surfac | . , | | 2 | | |
| | ark Surface (A12) | | | oressions (| F8) | | | hydrophytic vegetati | |
| - | Mucky Mineral (S1 | | Vernal Poo | ols (F9) | | | | drology must be pres | |
| - | Gleyed Matrix (S4) | | | | | | uniess distu | irbed or problematic | • |
| | Layer (if present) | • | | | | | | | |
| Type: Ro | | | | | | | | 49. W | / |
| Depth (inc | ches): 8 | | <u> </u> | | | | Hydric Soil Pro | esent? Yes | No <u>-/</u> _ |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| Wetland Hy | drology Indicator | 's: | | | | | | | |
| Primary India | cators (minimum c | f one required; | check all that app | oly) | | | Seconda | ry Indicators (2 or m | ore required) |
| | Water (A1) | • | Salt Crus | | | | | er Marks (B1) (River | |
| | ater Table (A2) | | Biotic Cru | | | | | ment Deposits (B2) | |
| Saturation | | | Aquatic II | | s (B13) | | | Deposits (B3) (Rive | |
| | larks (B1) (Nonri v | rerine) | Hydroger | | | | | nage Patterns (B10) | |
| · | nt Deposits (B2) (I | • | | | | Livina Roo | | Season Water Table | |
| | posits (B3) (Nonri | | Presence | | _ | _ | | rfish Burrows (C8) | (-) |
| | Soil Cracks (B6) | , | Recent Ir | | • | • | - | ration Visible on Ae | rial Imagery (C9) |
| | on Visible on Aeri | al Imagery (B7) | Thin Muc | | | | | low Aquitard (D3) | 3 , (, |
| | tained Leaves (B9 | | | plain in Re | , | | | -Neutral Test (D5) | |
| Field Obser | | , | | | | | <u> </u> | | |
| Surface Water | | Yes No | Depth (ii | nches): | | | | | |
| Water Table | | | Depth (ii | | | | | | |
| | | | | | | | and Hudralagy D | rocent? Voc | No. / |
| Saturation Pi (includes cap | | res No | Depth (ii | ncnes): | | _ wetia | and Hydrology P | resent? Yes | NO <u>v</u> |
| | corded Data (stream | am gauge, monit | toring well, aerial | photos, pr | evious ins | pections), i | if available: | | |
| | | | | | | | | | |
| Remarks: | | | | | | | | | |
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| Project/Site: Yellow Rose Bush | (| City/County | : Wasco Co | ounty | Sampling Date: 2024-11-06 |
|---|------------------|--------------|-------------|---|---|
| Applicant/Owner: Savion | | | | State: Oregon | Sampling Point: SP-501a |
| Investigator(s): Edward Strohmaier, Lauren Stebbins | ; | Section, To | wnship, Rar | nge: sec 21 T005S R016 | βE |
| Landform (hillslope, terrace, etc.): Depression | | Local relief | (concave, o | convex, none): Concave | Slope (%): <u>0-2</u> |
| Subregion (LRR): LRR B, MLRA 8 | Lat: <u>45.1</u> | 116437 | | Long: <u>-120.825789</u> | Datum: WGS84 |
| Soil Map Unit Name: Condon silt loam, 2 to 12 percent slop | oes | | | NWI classific | ation: None |
| Are climatic / hydrologic conditions on the site typical for this | s time of yea | ar? Yes | ✓ No _ | (If no, explain in R | emarks.) |
| Are Vegetation, Soil, or Hydrologys | significantly of | disturbed? | Are " | 'Normal Circumstances" p | oresent? Yes <u>√</u> No |
| Are Vegetation, Soil, or Hydrology r | naturally pro | blematic? | (If ne | eded, explain any answei | rs in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map | showing | samplin | g point lo | ocations, transects | , important features, etc. |
| Hydrophytic Vegetation Present? Yes✓_ N | lo | lo th | e Sampled | Aron | |
| Hydric Soil Present? Yes✓ N | | | in a Wetlan | | No |
| Wetland Hydrology Present? Yes _ ✓ N | lo | | | .u. 100 | |
| Remarks: | | | | | |
| | | | | | |
| | | | | | |
| VEGETATION – Use scientific names of plan | its. | | | | |
| Tue Otation (District 20) radius | Absolute | | | Dominance Test work | sheet: |
| Tree Stratum (Plot size: 30' radius) | | Species? | | Number of Dominant Sp | |
| 1 | | | | That Are OBL, FACW, o | or FAC: 2 (A) |
| 3. | | | | Total Number of Domina Species Across All Stra | • |
| 4 | | | | | (2) |
| 451 as dive | 0 | = Total Co | ver | Percent of Dominant Sp That Are OBL, FACW, of | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | | | Prevalence Index worl | |
| 1 | | | | Total % Cover of: | |
| 2 | | | | | $5 \qquad x \ 1 = \frac{55}{}$ |
| 4 | | | | | 5 	 x 2 = 30 |
| 5 | | | | | x 3 = 30 |
| | 0 | = Total Co | ver | FACU species0 | x 4 =0 |
| Herb Stratum (Plot size: 5' radius) | 0.0 | | 0.51 | UPL species0 | x 5 =0 |
| Epilobium campestre Fleedbaria polyetria | | <u>Y</u> | OBL_ | Column Totals: 80 | 0 (A) 115.00 (B) |
| Eleocharis palustris Gnaphalium palustre | <u>25</u> 15 | N | OBL FACW | Prevalence Index | = B/A = 1.44 |
| 4 Debuggaran animalan | 40 | N | FAC | Hydrophytic Vegetation | |
| Polygonum aviculare 5 | | | 170 | ✓ Dominance Test is | |
| 6 | | | | ✓ Prevalence Index is | |
| 7 | | | | | ptations ¹ (Provide supporting |
| 8 | | | | | s or on a separate sheet) |
| | 80.0 | = Total Co | ver | Problematic Hydrop | phytic Vegetation ¹ (Explain) |
| Woody Vine Stratum (Plot size: 30' radius) | | | | ¹ Indicators of hydric soi | l and wetland hydrology must |
| 1 | | | | be present, unless distu | |
| 2 | | = Total Co | ver | Hydrophytic | |
| % Bare Ground in Herb Stratum 20 % Cove | | • | | Vegetation | s✓_ No |
| % Bare Ground in Herb Stratum 20 | r of Biotic Cı | uot | | Present? Yes | 5 <u>*</u> NU |
| Romans. | | | | | |
| | | | | | |
| | | | | | |
| <u> </u> | | | | | |

SOIL Sampling Point: SP-501a

| Profile Desc | cription: (D | escribe 1 | o the dep | th needed | to docur | nent the i | indicator o | or confirm | n the absen | ce of indicators.) |
|---------------|----------------------|-------------|-------------|-------------|---------------|-------------|--------------|------------------|----------------------|---|
| Depth | | Matrix | | | | x Feature | | . ? | _ | |
| (inches) | Color (n | | <u>%</u> | Color (| moist) | % | Type' | Loc ² | Texture | Remarks |
| 0-4 | <u>10YR</u> | 2/2 | 100 | | | | | | SICL | _ |
| 4-10 | 10YR | 2/2 | 95 | 5YR | 4/6 | 5 | C | M | SICL | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹Type: C=C | oncentration | D-Deni | etion RM- | -Reduced | Matrix CS | S-Covere | d or Coate | d Sand G | rains ² I | Location: PL=Pore Lining, M=Matrix. |
| Hydric Soil | | | | | | | | u Sanu O | | ors for Problematic Hydric Soils ³ : |
| Histosol | | (| | | andy Red | | , | | | n Muck (A9) (LRR C) |
| | pipedon (A2) |) | | | ripped Ma | | | | | n Muck (A10) (LRR B) |
| - | istic (A3) | , | | | amy Muc | | l (F1) | | | luced Vertic (F18) |
| | en Sulfide (A | 4) | | | namy Gley | - | | | | Parent Material (TF2) |
| | d Layers (A5 | • | ;) | | epleted M | | ` ' | | | er (Explain in Remarks) |
| | uck (A9) (LR | | , | | edox Dark | | (F6) | | | , |
| | d Below Dar | | e (A11) | D | epleted Da | ark Surfac | e (F7) | | | |
| Thick Da | ark Surface | (A12) | | R | edox Depi | ressions (| F8) | | 3Indicato | ors of hydrophytic vegetation and |
| Sandy N | Mucky Minera | al (S1) | | Ve | ernal Pool | s (F9) | | | wetlar | nd hydrology must be present, |
| | Sleyed Matri | | | | | | | | unless | s disturbed or problematic. |
| Restrictive | | esent): | | | | | | | | |
| Type: Ro | ock | | | | | | | | | |
| Depth (in | ches): <u>10</u> | | | | | | | | Hydric S | oil Present? Yes <u>√</u> No |
| Remarks: | | | | | | | | | | |
| Rocks or | n surface | e and | through | out pro | ofile. | | | | | |
| | | | 9 | • | | | | | | |
| | | | | | | | | | | |
| HYDROLO | GY | | | | | | | | | |
| Wetland Hy | | icators: | | | | | | | | |
| _ | | | oo roquiroo | li abaak al | that appl | | | | Soci | conden, Indicators (2 or more required) |
| Primary India | | num or o | ie required | | | | | | <u>Sec</u> | condary Indicators (2 or more required) |
| | Water (A1) | _, | | | Salt Crust | | | | _ | Water Marks (B1) (Riverine) |
| _ | ater Table (A | (2) | | | Biotic Crus | | | | | Sediment Deposits (B2) (Riverine) |
| Saturation | | | | | Aquatic In | | | | | Drift Deposits (B3) (Riverine) |
| | /larks (B1) (N | | | | Hydrogen | | | | | Drainage Patterns (B10) |
| | nt Deposits (| | | | | | | | | Dry-Season Water Table (C2) |
| - | posits (B3) (I | | ine) | | | | ed Iron (C4 | | | Crayfish Burrows (C8) |
| ✓ Surface | | . , | | · | | | on in Tilled | d Soils (Co | 6) | Saturation Visible on Aerial Imagery (C9) |
| ✓ Inundati | ion Visible or | n Aerial II | magery (B7 | 7) 7 | Thin Muck | Surface (| (C7) | | _ | Shallow Aquitard (D3) |
| Water-S | Stained Leave | es (B9) | | (| Other (Exp | olain in Re | emarks) | | | FAC-Neutral Test (D5) |
| Field Obser | vations: | | | | | | | | | |
| Surface Wat | ter Present? | Y | es l | Vo <u> </u> | Depth (in | ches): | | _ | | |
| Water Table | Present? | Y | es l | Vo <u> </u> | Depth (in | ches): | | | | |
| Saturation P | resent? | Y | es l | Vo ✓ | Depth (in | ches): | | Wetl | land Hydrol | ogy Present? Yes No |
| (includes car | pillary fringe) |) | | | | | | | | |
| Describe Re | corded Data | (stream | gauge, mo | nitoring w | ell, aerial p | ohotos, pr | evious ins | pections), | , if available: | |
| | | | | | | | | | | |
| Remarks: | | | | | | | | | | |
| | | | | | | | | | | |
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| Project/Site: Yellow Rose Bush | City/County: Wasco | County | Sampling Date: 2024-11-06 |
|--|-----------------------------------|--|---|
| Applicant/Owner: Savion | | State: Oregon | Sampling Point: SP-501b |
| Investigator(s): Edward Strohmaier, Lauren Stebbins | Section, Township, R | ange: sec 21 T005S R010 | 6E |
| Landform (hillslope, terrace, etc.): Slope | Local relief (concave | , convex, none): None | Slope (%): <u>3-7</u> |
| Subregion (LRR): LRR B, MLRA 8 | Lat: 45.116468 | Long: <u>-120.825802</u> | Datum: WGS84 |
| Soil Map Unit Name: Condon silt loam, 2 to 12 percent | slopes | NWI classific | cation: None |
| Are climatic / hydrologic conditions on the site typical for | this time of year? Yes No_ | (If no, explain in F | Remarks.) |
| Are Vegetation, Soil, or Hydrology | significantly disturbed? Are | "Normal Circumstances" | present? Yes/ No |
| Are Vegetation, Soil, or Hydrology | naturally problematic? (If r | needed, explain any answe | ers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site ma | ap showing sampling point | locations, transects | s, important features, etc. |
| Hydrophytic Vegetation Present? Yes | No <u>√</u> Is the Sample | | |
| | No / Is the Sample within a Wetla | | No <u>√</u> |
| Wetland Hydrology Present? Yes | No <u>✓</u> | ind? Tes | NO <u>/</u> |
| Remarks: | | | |
| | | | |
| | | | |
| VEGETATION – Use scientific names of pl | lants. | | |
| | Absolute Dominant Indicator | Dominance Test work | ksheet: |
| Tree Stratum (Plot size: 30' radius) | % Cover Species? Status | Number of Dominant 3 | |
| 1 | | That Are OBL, FACW, | or FAC:0 (A) |
| 2 | | Total Number of Domir | |
| 3 | | Species Across All Stra | ata: <u>2</u> (B) |
| | 0 = Total Cover | Percent of Dominant S That Are OBL, FACW, | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | | (12) |
| 1 | | Prevalence Index wor | |
| 2 | | Total % Cover of: | |
| 3 | | OBL species | x = 0 |
| 4 5 | | FAC species | |
| o | 0 = Total Cover | • | 5 x 4 = 180 |
| Herb Stratum (Plot size: 5' radius) | | |) x 5 = 0 |
| Taeniatherum caput-medusae | | Column Totals: 4 | 5 (A) <u>180.00</u> (B) |
| 2. Poa bulbosa | | . Dravalanca Inda | , p/A 40 |
| 3 | | Prevalence Index Hydrophytic Vegetati | |
| 4 | | Dominance Test is | |
| 5 6 | | Prevalence Index | |
| 7 | | • | aptations ¹ (Provide supporting |
| 8. | | | s or on a separate sheet) |
| | 100.0 = Total Cover | Problematic Hydro | phytic Vegetation ¹ (Explain) |
| Woody Vine Stratum (Plot size: 30' radius) | | No disease of buildings | : |
| 1 | | be present, unless dist | il and wetland hydrology must urbed or problematic. |
| 2 | = Total Cover | Hydrophytic | |
| | | Vegetation | |
| % Bare Ground in Herb Stratum % Co | over of Biotic Crust | Present? Ye | es No <u> </u> |
| Remarks: | | | |
| | | | |
| | | | |
| | | | |

SOIL Sampling Point: SP-501b

| Profile Desc | ription: (D | escribe t | o the dept | n needed to document | the indicator or c | confirm the abs | sence of indicators.) |
|---------------|----------------------|--------------------|---------------|-----------------------------------|-----------------------|-------------------|---|
| Depth | | Matrix | | Redox Fe | atures | <u>oc²</u> Textu | Demande |
| (inches) | Color (n | | <u>%</u> | Color (moist) | % Type ¹ L | | |
| 0-3 | 10YR | 3/2 | 100 | | | SIL | |
| <u>3-10</u> | <u>10YR</u> | 2/2 | 100 | | | SIC | <u> </u> |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | · | | - | |
| | | | | | | <u> </u> | |
| | - | | | | | | |
| | | | | Reduced Matrix, CS=Co | | | ² Location: PL=Pore Lining, M=Matrix. |
| - | | (Applica | able to all L | .RRs, unless otherwise | | | ators for Problematic Hydric Soils ³ : |
| Histosol | (A1) pipedon (A2) | | | Sandy Redox (S Stripped Matrix | , | | I cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) |
| Black His | |) | | Simpped Mainx | • • | | Reduced Vertic (F18) |
| | n Sulfide (A | .4) | | Loamy Gleyed N | , , | | Red Parent Material (TF2) |
| | Layers (A5 | | ;) | Depleted Matrix | | | Other (Explain in Remarks) |
| 1 cm Mu | ck (A9) (LR | R D) | | Redox Dark Sur | face (F6) | | |
| | Below Dar | | e (A11) | Depleted Dark S | | | |
| | rk Surface | | | Redox Depressi | | | cators of hydrophytic vegetation and |
| - | lucky Miner | | | Vernal Pools (F9 | 3) | | tland hydrology must be present, |
| Restrictive L | leyed Matri | | | | | un | less disturbed or problematic. |
| Type: Ro | | .30111). | | | | | |
| Depth (inc | | | | <u>—</u> | | Hydrid | c Soil Present? Yes No✓ |
| Remarks: | 7163). <u>10</u> | | | | | Hydric | C SON T resent: Tes NO |
| Nemarks. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| HYDROLO | GY | | | | | | |
| Wetland Hyd | drology Ind | icators: | | | | | |
| Primary Indic | ators (minin | num of o | ne required: | check all that apply) | | , <u>:</u> | Secondary Indicators (2 or more required) |
| Surface | Water (A1) | | | Salt Crust (B11 | 1) | | Water Marks (B1) (Riverine) |
| High Wa | ter Table (A | (2) | | Biotic Crust (B | 12) | | Sediment Deposits (B2) (Riverine) |
| Saturation | on (A3) | | | Aquatic Inverte | | | Drift Deposits (B3) (Riverine) |
| Water M | arks (B1) (N | lonriveri | ne) | Hydrogen Sulfi | de Odor (C1) | | Drainage Patterns (B10) |
| Sedimen | nt Deposits (| (B2) (No r | riverine) | Oxidized Rhizo | spheres along Livi | ng Roots (C3) | Dry-Season Water Table (C2) |
| Drift Dep | osits (B3) (I | Nonriver | ine) | Presence of Re | educed Iron (C4) | | Crayfish Burrows (C8) |
| Surface | Soil Cracks | (B6) | | Recent Iron Re | eduction in Tilled So | oils (C6) | Saturation Visible on Aerial Imagery (C9) |
| Inundation | on Visible or | n Aerial Ir | magery (B7 | Thin Muck Sur | face (C7) | | Shallow Aquitard (D3) |
| Water-St | tained Leav | es (B9) | | Other (Explain | in Remarks) | | FAC-Neutral Test (D5) |
| Field Observ | vations: | | | | | | |
| Surface Water | er Present? | | | o 📝 Depth (inches | | | |
| Water Table | Present? | Ye | es N | o Depth (inches |): | | |
| Saturation Pr | | | es N | o Depth (inches |): | Wetland Hyd | rology Present? Yes No <u>✓</u> |
| (includes cap | | | naline moi | nitoring well, aerial photo | ne previous inspec | tions) if availah | ماه٠ |
| Describe rec | oraca Data | (Stream | gauge, moi | intorning went, aeriai priote | 33, previous irispec | nons), ii avallat | nc. |
| Remarks: | | | | | | | |
| Kemarks. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Project/Site: Yellow Rose Bush | (| City/County: | Wasco C | ounty | San | npling Date | e: <u>2024-1</u> | 1-06 |
|--|------------------|--------------|--------------------------|---|------------|----------------|------------------|---------|
| Applicant/Owner: Savion | | | | State: Oregor | າ San | npling Poir | nt: SP-502 | 2a |
| Investigator(s): Edward Strohmaier, Lauren Stebbins | ; | Section, To | wnship, Ra | nge: sec 20 T005S F | ₹016E | | | |
| Landform (hillslope, terrace, etc.): Depression | | Local relief | (concave, | convex, none): Conc | ave | | Slope (%): | 0-2 |
| Subregion (LRR): LRR B, MLRA 8 | Lat: <u>45.1</u> | 17959 | | Long: <u>-120.832698</u> | } | Da | atum: WG | S84 |
| Soil Map Unit Name: Condon-Bakeoven complex, 2 to 20 | percent slope | es | | NWI clas | sification | : None | | |
| Are climatic / hydrologic conditions on the site typical for the | | | | | | | | |
| Are Vegetation, Soil, or Hydrology | significantly | disturbed? | Are " | 'Normal Circumstance | es" prese | nt? Yes_ | ✓ No | o |
| Are Vegetation, Soil, or Hydrology | | | (If ne | eeded, explain any an | swers in | Remarks.) |) | |
| SUMMARY OF FINDINGS – Attach site map | | | g point l | ocations, transe | cts, im | portant | feature | s, etc. |
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes | No | | e Sampled in a Wetlar | | √ | No | | |
| VEGETATION – Use scientific names of pla | | | | | | | | |
| VEGETATION OSC SCIENCING Haines of pla | Absolute | Dominant | Indicator | Dominance Test w | vorkshee | et: | | |
| Tree Stratum (Plot size: 30' radius) | % Cover | Species? | | Number of Domina | | es | | |
| 1 | | | | That Are OBL, FAC | ;W, or FA | \C: | 1 | (A) |
| 2 | | | | Total Number of Do | | | 1 | (D) |
| 3 | | | | Species Across All | | | <u>'</u> | (B) |
| | _ | = Total Co | | Percent of Dominar That Are OBL, FAC | | | 00.00 | (A/B) |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | | | Prevalence Index | | | | (/ |
| 1 | | | | Total % Cover | | | tiply by: | |
| 2 | | | | OBL species | | x 1 = | | _ |
| 4 | | | | FACW species | | | | |
| 5 | | | | FAC species | 0 | x 3 = _ | 0 | _ |
| | | = Total Co | ver | FACU species | | _ x 4 = _ | | _ |
| Herb Stratum (Plot size: 5' radius) | 75 | V | OBL | UPL species | | _ x 5 = _ | | _ |
| Myosurus minimus Navarretia intertexta | | N | OBL FACW | Column Totals: | 80 | _ (A) _ | 85.00 | _ (B) |
| 3 | | | | Prevalence In | idex = B | /A = 1.06 | | |
| 4 | | | | Hydrophytic Vege | | | | _ |
| 5 | | | | ✓ Dominance Te | | | | |
| 6 | | | | ✓ Prevalence Ind | lex is ≤3. | 0 ¹ | | |
| 7. | | | | Morphological | | | | ting |
| 8 | | | | data in Rem | | | , | · \ |
| Was division Charter (Diet sine) 201 radius | 80.0 | = Total Co | ver | Problematic Hy | /aropnytic | c vegetatio | on (⊏xpiai | in) |
| Woody Vine Stratum (Plot size: 30' radius) 1 | | | | ¹ Indicators of hydric be present, unless | | | | nust |
| 2 | | = Total Co | ver | Hydrophytic | | | | |
| % Bare Ground in Herb Stratum 20 % Cov | er of Biotic Cr | | | Vegetation Present? | Yes | ✓ No | | |
| Remarks: | | | | 1 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

SOIL Sampling Point: SP-502a

| Profile Desc | ription: (Describ | e to the dep | th needed to docu | ment the i | ndicator | or confirm | the absence of | indicators.) |
|---------------------------------------|---|------------------|------------------------|--------------|-------------|------------------|----------------------------|---|
| Depth | Matrix | | | ox Feature: | - 1 | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type' | Loc ² | Texture | Remarks |
| 0-4 | 10YR 3/2 | 90 | 10YR 3/6 | 10 | C | M | SICL_ | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | - | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Co | ncentration, D=D | epletion, RM= | Reduced Matrix, C | S=Covered | d or Coate | d Sand Gra | ains. ² Locati | on: PL=Pore Lining, M=Matrix. |
| | | | LRRs, unless othe | | | | | r Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Sandy Red | lox (S5) | | | 1 cm Muc | ck (A9) (LRR C) |
| Histic Ep | ipedon (A2) | | Stripped M | atrix (S6) | | | 2 cm Muc | ck (A10) (LRR B) |
| Black His | | | Loamy Mu | | | | | Vertic (F18) |
| | n Sulfide (A4) | | Loamy Gle | | (F2) | | | nt Material (TF2) |
| · | Layers (A5) (LRF | R C) | Depleted M | | | | Other (Ex | plain in Remarks) |
| | ck (A9) (LRR D) | (044) | ✓ Redox Dar | | , | | | |
| | l Below Dark Surfa Irk Surface (A12) | ace (ATT) | Depleted D Redox Dep | | | | ³ Indicators of | hydrophytic vegetation and |
| | lucky Mineral (S1) | | Vernal Poo | | 0) | | | drology must be present, |
| - | leyed Matrix (S4) | | voindi i oo | (1 0) | | | - | urbed or problematic. |
| | ayer (if present) | <u> </u> | | | | | | · |
| | ck refusal | | | | | | | |
| Depth (inc | | | | | | | Hydric Soil Pr | esent? Yes ✓ No |
| Remarks: | , | | | | | | | |
| | curface and | d avnaca | d hadrack | | | | | |
| NOCKS OII | surface and | a expose | u beurock | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | | | | | | | | |
| Wetland Hyd | drology Indicator | s: | | | | | | |
| Primary Indic | ators (minimum o | f one required | l; check all that app | ly) | | | <u>Seconda</u> | ry Indicators (2 or more required) |
| Surface \ | Water (A1) | | Salt Crust | t (B11) | | | Wate | er Marks (B1) (Riverine) |
| High Wa | ter Table (A2) | | Biotic Cru | st (B12) | | | Sedi | ment Deposits (B2) (Riverine) |
| Saturatio | on (A3) | | Aquatic Ir | vertebrate | s (B13) | | Drift | Deposits (B3) (Riverine) |
| Water Ma | arks (B1) (Nonriv | erine) | Hydrogen | Sulfide O | dor (C1) | | Drain | nage Patterns (B10) |
| Sedimen | t Deposits (B2) (N | lonriverine) | Oxidized | Rhizosphe | res along | Living Roo | ts (C3) Dry- | Season Water Table (C2) |
| | osits (B3) (Nonri | verine) | Presence | | | | | fish Burrows (C8) |
| | Soil Cracks (B6) | | Recent Iro | | | d Soils (C6) | · — | ration Visible on Aerial Imagery (C9) |
| · · · · · · · · · · · · · · · · · · · | on Visible on Aeria | | · — | k Surface (| | | | llow Aquitard (D3) |
| | tained Leaves (B9 |) | Other (Ex | plain in Re | marks) | | <u>✓</u> FAC | -Neutral Test (D5) |
| Field Observ | /ations: | | , | | | | | |
| Surface Water | er Present? | | No 🗸 Depth (ir | | | | | |
| Water Table I | Present? | Yes I | No 📝 Depth (ir | nches): | | | | |
| Saturation Pr | | Yes I | No <u>✓</u> Depth (ir | nches): | | Wetla | and Hydrology P | resent? Yes <u>√</u> No |
| (includes cap | | ım dalıda mo | nitoring well, aerial | nhotos pr | avioue ine | nections) i | if available: | |
| Describe Nec | Joided Data (Strea | iiii gauge, iiic | milloring well, aeriai | priotos, pri | evious ilis | pections), i | ii avallable. | |
| Damada | | | | | | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
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| Project/Site: Yellow Rose Bush | | City/Count | y: Wasco C | ounty | Sar | npling Da | te: 2024-1 | 1-06 |
|--|---------------------|-------------|----------------------------|--|-------------|-----------|---------------------------|---------|
| Applicant/Owner: Savion | | | | State: Orego | on Sar | npling Po | int: <u>SP-502</u> | 2b |
| Investigator(s): Edward Strohmaier, Lauren Stebbins | | Section, T | ownship, Ra | nge: sec 20 T005S | R016E | | | |
| Landform (hillslope, terrace, etc.): Slope | | Local relie | ef (concave, | convex, none): None | е | | Slope (%): | 3-7 |
| Subregion (LRR): LRR B, MLRA 8 | Lat: <u>45.</u> | 117958 | | _ Long: <u>-120.83272</u> | 7 | | Datum: WG | S84 |
| Soil Map Unit Name: Condon-Bakeoven complex, 2 to 20 |) percent slop | es | | NWI cla | ssification | n: None | | |
| Are climatic / hydrologic conditions on the site typical for t | his time of yea | ar? Yes _ | ✓ No_ | (If no, explain | n in Rema | rks.) | | |
| Are Vegetation, Soil, or Hydrology | | | | 'Normal Circumstanc | | | /_ N | 0 |
| Are Vegetation, Soil, or Hydrology | | | | eded, explain any a | | | | |
| SUMMARY OF FINDINGS – Attach site ma | | | | ocations, transe | ects, im | portan | t feature | s, etc. |
| Hydrophytic Vegetation Present? Yes | No 🗸 | | | | | | | |
| Hydric Soil Present? Yes | | | he Sampled hin a Wetlar | | | No | / | |
| Wetland Hydrology Present? Yes | No <u>/</u> | Wit | nın a wetiai | id? fes | | NO | <u>/</u> | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| VECETATION Lies scientific names of pla | nto | | | | | | | |
| VEGETATION – Use scientific names of pla | | Damiaaa | | Daminana Tast | | -4- | | |
| Tree Stratum (Plot size: 30' radius) | Absolute % Cover | | nt Indicator Status | Number of Domina | | | | |
| 1 | | | | That Are OBL, FA | | | 0 | (A) |
| 2 | | | | Total Number of D | | | | |
| 3 | | | | Species Across Al | | | 2 | (B) |
| 4 | | | | Percent of Domina | nt Specie | ,c | | |
| Cooling/Chruh Ctrotum / Diet circo 15' radius | 0 | = Total C | over | That Are OBL, FA | | | 0.00 | (A/B) |
| Sapling/Shrub Stratum (Plot size: 15' radius) 1 | | | | Prevalence Index | workshe | ot. | | |
| 2. | | | | Total % Cover | | | ıltiply by: | |
| 3. | | | | OBL species | | | | |
| 4 | | | | FACW species | | | | |
| 5. | | | | FAC species | | | | _ |
| | 0 | = Total C | over | FACU species | 20 | x 4 = | 80 | _ |
| Herb Stratum (Plot size: 5' radius) | | | | UPL species | 0 | x 5 = | 0 | _ |
| 1. Taeniatherum caput-medusae | <u>55</u> | <u>Y</u> | _ <u>NI</u> | Column Totals: | 20 | _ (A) | 80.00 | _ (B) |
| 2. Achillea millefolium | | <u>Y</u> | _ <u>FACU</u> | Prevalence I | ndev – R | /Δ = 4.0 | | |
| 3. Thinopyrum intermedium | 40 | N | _ <u>NI</u> NI | Hydrophytic Vege | | | | _ |
| 4. Tragopogon dubius | | | | Dominance Te | | | • | |
| 5 6 | | | | Prevalence In | | | | |
| 7. | | | | Morphological | | | vide suppor | ting |
| 8. | | | | data in Rer | | | | • |
| | | = Total C | over | Problematic H | lydrophyti | c Vegetat | tion ¹ (Explai | in) |
| Woody Vine Stratum (Plot size: 30' radius) | | - | | 4 | | | | |
| 1 | | | | ¹ Indicators of hydribe present, unless | | | | nust |
| 2 | | | | , , | | | | |
| | 0 | = Total C | over | Hydrophytic Vegetation | | | | |
| % Bare Ground in Herb Stratum % Cov | er of Biotic C | rust | | Present? | Yes | N | o <u> </u> | |
| Remarks: | | | | • | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

SOIL Sampling Point: SP-502b

| | cription: (Desc | ribe to the dep | th needed to docu | | | or confirm | the absence of | indicators.) | |
|-------------------|---|-----------------|-----------------------|-----------------|------------------------|------------------|----------------------------|---------------------------|--------------|
| Depth (inches) | Mate Color (mois | | Color (moist) | ox Feature % | s Type ¹ | Loc ² | Texture | Remarks | |
| | - | | Color (moist) | | Type | LUC | SICL | Remarks | |
| 0-10 | 10YR 3/ | <u>4 100</u> | | | | | SICL _ | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | | | Reduced Matrix, C | | | d Sand Gr | | ion: PL=Pore Lining, Ma | |
| Hydric Soil | Indicators: (Ap | plicable to all | LRRs, unless othe | erwise not | ed.) | | Indicators fo | r Problematic Hydric S | ioils³: |
| Histoso | ` ' | | Sandy Red | | | | | ck (A9) (LRR C) | |
| | pipedon (A2) | | Stripped M | | | | | ck (A10) (LRR B) | |
| | listic (A3) | | Loamy Mu | | | | | Vertic (F18) | |
| | en Sulfide (A4) | BB C\ | Loamy Gle | • | (F2) | | | ent Material (TF2) | |
| | d Layers (A5) (L uck (A9) (LRR D | | Depleted N Redox Dar | | (F6) | | Other (E) | kplain in Remarks) | |
| | ed Below Dark Su | • | Depleted D | | ` ' | | | | |
| | ark Surface (A12 | , , | Redox Dep | | , , | | ³ Indicators of | hydrophytic vegetation | and |
| | Mucky Mineral (S | | Vernal Poo | | , | | | drology must be present | |
| | Gleyed Matrix (S | | | | | | unless dist | urbed or problematic. | |
| Restrictive | Layer (if preser | nt): | | | | | | | |
| Type: R | ock | | | | | | | | |
| Depth (in | nches): <u>10</u> | | | | | | Hydric Soil Pr | resent? Yes | No <u>√</u> |
| HYDROLO |)GY | | | | | | | | |
| | drology Indicat | ors: | | | | | | | |
| - | | | d; check all that app | olv) | | | Seconda | ary Indicators (2 or more | required) |
| | Water (A1) | | Salt Crus | ** | | | | er Marks (B1) (Riverine | |
| | ater Table (A2) | | Biotic Cru | ` ' | | | | iment Deposits (B2) (Ri | , |
| | ion (A3) | | | nvertebrate | s (B13) | | | Deposits (B3) (Riverine | |
| | Marks (B1) (Non ı | riverine) | · Hydrogen | | , , | | | inage Patterns (B10) | , |
| | nt Deposits (B2) | | | | , , | Living Roo | | Season Water Table (C | 2) |
| | posits (B3) (Non | | | of Reduce | - | _ | | yfish Burrows (C8) | , |
| | Soil Cracks (B6 | | | on Reducti | | | - | uration Visible on Aerial | Imagery (C9) |
| Inundat | ion Visible on Ae | rial Imagery (B | 7) Thin Muc | k Surface | (C7) | | Sha | llow Aquitard (D3) | |
| Water-S | Stained Leaves (| B9) | Other (Ex | plain in Re | emarks) | | FAC | C-Neutral Test (D5) | |
| Field Obser | rvations: | | | | | | | | |
| Surface Wa | ter Present? | Yes I | No 🗸 Depth (ir | nches): | | _ | | | |
| Water Table | Present? | Yes I | No 🗸 Depth (ir | nches): | | | | | |
| Saturation F | Present? | Yes I | No Depth (ir | nches): | | Wetla | and Hydrology F | Present? Yes | No <u>✓</u> |
| | pillary fringe) | | | | | | | | |
| Describe Re | ecorded Data (str | eam gauge, mo | nitoring well, aerial | photos, pr | evious ins | pections), | ıt available: | | |
| D | | | | | | | | | |
| Remarks: | | | | | | | | | |
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| Project/Site: Yellow Rose Bush | | City/Count | y: Wasco C | ounty | _ Sampling | Date: 2024-1 | 1-06 |
|---|---------------------|-------------|----------------------------|---|--------------------------------|-------------------------------|----------|
| Applicant/Owner: Savion | | | | State: Oregon | _ Sampling | Point: <u>SP-504</u> | la |
| Investigator(s): Lauren Stebbins, Edward Strohmaier | ; | Section, T | ownship, Ra | nge: <u>sec 17 T005S R0</u> | 16E | | |
| Landform (hillslope, terrace, etc.): Depression | | Local relie | ef (concave, | convex, none): Concav | e | Slope (%): | 0-2 |
| Subregion (LRR): LRR B, MLRA 8 | Lat: <u>45.1</u> | 136269 | | Long: <u>-120.830788</u> | | Datum: WG | S84 |
| Soil Map Unit Name: Bakeoven-Condon complex, 2 to 2 | 0 percent slop | es | | NWI classi | fication: No | ne | |
| Are climatic / hydrologic conditions on the site typical for | this time of yea | ar? Yes _ | ✓_ No_ | (If no, explain in | Remarks.) | | |
| Are Vegetation, Soil, or Hydrology | _significantly | disturbed? | Are ' | 'Normal Circumstances | present? | Yes <u>√</u> No | 0 |
| Are Vegetation, Soil, or Hydrology | _naturally pro | blematic? | (If ne | eded, explain any ansv | vers in Rema | arks.) | |
| SUMMARY OF FINDINGS - Attach site ma | p showing | samplii | ng point l | ocations, transec | s, import | ant feature | s, etc. |
| Hydrophytic Vegetation Present? Hydric Soil Present? Westerd Hydrology Present? | No | | he Sampled hin a Wetlar | | <u>√</u> No_ | | |
| Wetland Hydrology Present? Yes✓ | No | | | | | | |
| Remarks. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| VEGETATION – Use scientific names of pla | ants. | | | | | | |
| Tree Stratum (Plot size: 30' radius) | Absolute % Cover | | t Indicator Status | Dominance Test wo | | | |
| 1 | | | | Number of Dominant That Are OBL, FACW | | 2 | (A) |
| 2. | | | | | • | | (* .) |
| 3 | | | | Total Number of Dom Species Across All St | | 2 | (B) |
| 4 | | | | Percent of Dominant | Species | | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | 0 | = Total C | over | That Are OBL, FACW | | 100.00 | (A/B) |
| 1 | | | | Prevalence Index we | orksheet: | | |
| 2. | | | | Total % Cover of | <u> </u> | Multiply by: | _ |
| 3 | | | | OBL species | 0 x 1 | =0 | _ |
| 4 | | - | | FACW species | | | _ |
| 5 | | | | FAC species | | | _ |
| Herb Stratum (Plot size: 5' radius) | 0 | = Total C | over | FACU species | 0 x 4 | | _ |
| 1. Deschampsia danthonioides | 45 | Y | FACW | Column Totals: | | | — (B) |
| Navarretia intertexta | 45 | Y | FACW | | ` , | | _ (5) |
| Psilocarphus brevissimus | 10 | N | FACW | Prevalence Inde | | | _ |
| 4 | | | | Hydrophytic Vegeta | | ors: | |
| 5 | | | | ✓ Dominance Test ✓ Prevalence Index | | | |
| 6 | | | | Morphological Ad | | Provide suppor | tina |
| 7 8 | | | | data in Rema | ks or on a s | eparate sheet) | Ü |
| | | = Total C | over | Problematic Hyd | ophytic Veg | etation ¹ (Explai | in) |
| Woody Vine Stratum (Plot size: 30' radius) | | | | 1 collections of books | -9 1 1- | | |
| 1 | | | | ¹ Indicators of hydric s be present, unless dis | oil and wetla sturbed or pr | and hydrology n oblematic. | nust |
| 2 | | = Total C | 0.401 | Hydrophytic | | | |
| | · | • | | Vegetation | | | |
| % Bare Ground in Herb Stratum % Co | ver of Biotic Ci | rust | | Present? | 'es <u>√</u> | No | |
| Remarks: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

SOIL Sampling Point: SP-504a

| | ription: (L | | o the dept | n needed to document the indicator or c | commitme abs | ence of indicators.) | | | |
|---------------------------------------|-----------------------------------|------------------|---------------|---|--------------------|--|------------------------|--|--|
| Depth (inches) | Color (ı | Matrix moist) | % | Redox Features Color (moist) % Type ¹ L | oc² Textu | ıre R | temarks | | |
| 0-4 | 10YR | 3/3 | 100 | | SIL | | | | |
| 4-7 | 10YR | 4/3 | 100 | | <u></u> SI | | | | |
| <u>4-1</u> | IUIK | 4/3 | 100 | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | Reduced Matrix, CS=Covered or Coated S | | ² Location: PL=Pore | | | |
| - | | (Applica | able to all I | LRRs, unless otherwise noted.) | | ators for Problemation | • | | |
| Histosol | | | | Sandy Redox (S5) | | cm Muck (A9) (LRR | | | |
| | ipedon (A2 | 2) | | Stripped Matrix (S6) | | cm Muck (A10) (LRR | (B) | | |
| Black His | | (4) | | Loamy Mucky Mineral (F1)Loamy Gleyed Matrix (F2) | | Reduced Vertic (F18) Red Parent Material (T | Έο) | | |
| | n Sulfide (<i>A</i> Layers (A | | .) | Depleted Matrix (F3) | | Other (Explain in Rema | | | |
| | ck (A9) (LF | | ') | Redox Dark Surface (F6) | <u>-</u> ` | other (Explain in Reme | ano) | | |
| | Below Da | , | e (A11) | Depleted Dark Surface (F7) | | | | | |
| | rk Surface | | , | Redox Depressions (F8) | ³ Indio | ators of hydrophytic v | egetation and | | |
| Sandy M | ucky Miner | al (S1) | | Vernal Pools (F9) | | tland hydrology must l | | | |
| | leyed Matri | | | | un | ess disturbed or probl | ematic. | | |
| Restrictive L | | esent): | | | | | | | |
| Type: Ro | ck | | | <u></u> | | | | | |
| Depth (inc | hes): <u>7</u> | | | | Hydri | Soil Present? Ye | s <u> </u> | | |
| Remarks: | | | | | • | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | 2V | | | | | | | | |
| | | l:t | | | | | | | |
| Wetland Hyd | | | | | | | | | |
| | | | ne required | l; check all that apply) | <u> </u> | Secondary Indicators | | | |
| | Water (A1) | | | Salt Crust (B11) | | Water Marks (B1) | | | |
| <u> </u> | ter Table (A | A2) | | Biotic Crust (B12) | | Sediment Deposit | | | |
| Saturatio | , , | | | Aquatic Invertebrates (B13) | | Drift Deposits (B3) (Riverine) | | | |
| · · · · · · · · · · · · · · · · · · · | arks (B1) (I | | • | Hydrogen Sulfide Odor (C1) | 5 (20) | Drainage Patterns | | | |
| | t Deposits | | | Oxidized Rhizospheres along Livi | . , | | , , | | |
| | osits (B3) (| | ine) | Presence of Reduced Iron (C4) | | Crayfish Burrows | • • | | |
| ✓ Surface S | | . , | | Recent Iron Reduction in Tilled Sc | olis (C6) | | on Aerial Imagery (C9) | | |
| ✓ Inundation | | | nagery (B7 | | | Shallow Aquitard ✓ FAC-Neutral Test | • • | | |
| | ained Leav | es (B9) | | Other (Explain in Remarks) | 1 | FAC-Neutral Test | (D5) | | |
| Field Observ | | | | In A Doroth Contract | | | | | |
| Surface Wate | | | | No V Depth (inches): | | | | | |
| Water Table I | | | | No ✓ Depth (inches): | | | | | |
| Saturation Pro | | | es N | No Depth (inches): | Wetland Hyd | rology Present? Ye | es <u> </u> | | |
| (includes cap Describe Rec | | | gauge, mo | nitoring well, aerial photos, previous inspec | tions), if availab | le: | | | |
| | | | | 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7 | ,, | | | | |
| Remarks: | | | | | | | | | |
| . tomano. | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |

| Project/Site: Yellow Rose Bush | (| City/Count | ty: Wasco C | ounty | Sa | mpling Da | te: 2024-1 | 1-06 |
|--|------------------|-------------|------------------------------|---------------------------------|------------|------------------------|---------------------|----------|
| Applicant/Owner: Savion | | | | State: Orego | n Sai | mpling Po | int: <u>SP-50</u> 4 | 4b |
| Investigator(s): Edward Strohmaier, Lauren Stebbins | ; | Section, T | ownship, Ra | nge: sec 17 T005S | R016E | | | |
| Landform (hillslope, terrace, etc.): Slope | | Local relie | ef (concave, | convex, none): None | е | | Slope (%): | 3-7 |
| Subregion (LRR): LRR B, MLRA 8 | Lat: 45.1 | 136300 | | Long: <u>-120.83078</u> | 0 | | Datum: WG | S84 |
| Soil Map Unit Name: Bakeoven-Condon complex, 2 to 2 | 0 percent slope | es | | NWI cla | ssificatio | n: None | | |
| Are climatic / hydrologic conditions on the site typical for | this time of yea | ar? Yes _ | ✓ No_ | (If no, explain | n in Rema | ırks.) | | |
| Are Vegetation, Soil, or Hydrology | | | | 'Normal Circumstanc | | | /_ N | 0 |
| Are Vegetation, Soil, or Hydrology | | | | eded, explain any a | | | | |
| SUMMARY OF FINDINGS – Attach site ma | | | | | | | | s, etc. |
| Hydrophytic Vegetation Present? Yes | No <u> </u> | lo é | the Sampled | Aron | | | | |
| Hydric Soil Present? Yes | | | the Sampled thin a Wetlar | | | No | / | |
| Wetland Hydrology Present? Yes | No | Wit | .iiii a weda | 10. 103 | | | <u></u> | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| VEGETATION – Use scientific names of pla | ants. | | | | | | | |
| | Absolute | Dominar | nt Indicator | Dominance Test | workshe | et: | | |
| Tree Stratum (Plot size: 30' radius) | | | ? Status | Number of Domina | | | | |
| 1 | | | | That Are OBL, FA | CW, or F | 4C: | 0 | (A) |
| 2 | | | | Total Number of D | | | • | |
| 3 | | | | Species Across Al | l Strata: | | 3 | (B) |
| 4 | _ | = Total C | | Percent of Domina | | | 0.00 | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | = rotar C | over | That Are OBL, FA | CW, or F | AC: | 0.00 | (A/B) |
| 1 | | | | Prevalence Index | worksh | eet: | | |
| 2 | | | | Total % Cover | | | ıltiply by: | |
| 3 | | | | OBL species | | | | _ |
| 4 | | - | | FACW species | | | | _ |
| 5 | | | | FAC species | | | | _ |
| Herb Stratum (Plot size: 5' radius) | | = Total C | over | FACU species UPL species | | _ x 4 = _ _ x 5 = _ | | _ |
| 1. Taeniatherum caput-medusae | 25 | Y | NI | Column Totals: | | | 60.00 | — (B) |
| 2. Thinopyrum intermedium | 20 | Y | NI | Coldinii Fotals. | | _ (//) - | | _ (5) |
| 3. Poa bulbosa | 15 | Y | FACU | Prevalence I | | | | _ |
| 4 | | - | | Hydrophytic Vege | | | : | |
| 5 | | | | Dominance Te | | | | |
| 6 | | | | Prevalence In Morphological | | | ما ما ما ما ما | tin a |
| 7 | | | _ | data in Rer | | | | ung |
| 8 | | Tatal O | | Problematic H | lydrophyt | ic Vegetat | ion¹ (Expla | in) |
| Woody Vine Stratum (Plot size: 30' radius) | 00.0 | = Total C | over | | | | | |
| 1 | | | | ¹ Indicators of hydr | | | | nust |
| 2. | | | | be present, unless | disturbe | d or proble | ematic. | |
| | | = Total C | over | Hydrophytic | | | | |
| % Bare Ground in Herb Stratum 40 % Co | ver of Biotic Cı | rust | | Vegetation Present? | Yes | No | o <u>/</u> | |
| Remarks: | | | | 1 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

SOIL Sampling Point: SP-504b

| Profile Desc | cription: (Descri | be to the depth | needed to docu | ment the i | ndicator | or confirm | the absence of | indicators.) | |
|----------------------------|--|------------------|------------------------|-------------|------------|------------------|---------------------------|---------------------------|-------------------|
| Depth | Matri: | | | ox Feature | | 12 | T-1010000 | . | _ |
| (inches) | Color (moist) | | Color (moist) | % | Type' | Loc ² | <u>Texture</u> | Remark | S |
| 0-4 | 10YR 3/3 | <u> 100</u> _ | | | | | SCL_ | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| 1Type: C=C | oncentration, D=[| Denletion RM-R | educed Matrix C | S-Covered | d or Coate | d Sand Gr | ains ² l ocati | ion: PL=Pore Lining | M-Matriy |
| | Indicators: (App | • | | | | u Sanu On | | r Problematic Hydr | |
| Histosol | | | Sandy Red | | , | | | ck (A9) (LRR C) | |
| | pipedon (A2) | | Stripped M | | | | | ck (A10) (LRR B) | |
| - | istic (A3) | | | cky Minera | l (F1) | | | Vertic (F18) | |
| | en Sulfide (A4) | | Loamy Gle | - | . , | | | ent Material (TF2) | |
| Stratified | d Layers (A5) (LR | RC) | Depleted N | Natrix (F3) | | | Other (Ex | plain in Remarks) | |
| | uck (A9) (LRR D) | | Redox Dar | k Surface (| (F6) | | | | |
| | d Below Dark Sur | | | Oark Surfac | | | 2 | | |
| | ark Surface (A12) | | | oressions (| F8) | | | hydrophytic vegetati | |
| - | Mucky Mineral (S1 | | Vernal Poo | ols (F9) | | | - | drology must be pres | |
| | Gleyed Matrix (S4 Layer (if present | | | | | | uniess disti | urbed or problemation |). |
| | |): | | | | | | | |
| | ock refusal | | <u></u> | | | | | | |
| Depth (in | ches): 4 | | | | | | Hydric Soil Pr | esent? Yes | No <u> </u> |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| Wetland Hy | drology Indicato | rs: | | | | | | | |
| Primary India | cators (minimum | of one required; | check all that app | oly) | | | Seconda | ary Indicators (2 or m | ore required) |
| | Water (A1) | , . | Salt Crus | | | | | er Marks (B1) (Rive | |
| | ater Table (A2) | | Biotic Cru | | | | | iment Deposits (B2) | |
| Saturation | | | Aquatic Ir | | s (B13) | | | Deposits (B3) (Rive | |
| | larks (B1) (Nonri | verine) | Hydroger | | | | | nage Patterns (B10) | |
| · | nt Deposits (B2) (| • | | | | Livina Roo | | Season Water Table | |
| | posits (B3) (Nonr | | Presence | | _ | _ | | fish Burrows (C8) | (- (-) |
| | Soil Cracks (B6) | , | Recent Ir | | • | • | - | ration Visible on Ae | rial Imagery (C9) |
| | on Visible on Aer | ial Imagery (B7) | Thin Muc | | | | | llow Aquitard (D3) | 3.5.7 (2.2) |
| | stained Leaves (B | | | plain in Re | , | | | -Neutral Test (D5) | |
| Field Obser | • | - , | | | | | | | |
| Surface Wat | | Yes No | o <u>✓</u> Depth (ir | nches). | | | | | |
| Water Table | | | Depth (ii Depth (ii | | | | | | |
| | | | | | | | and Hydrology P | Procent? Voc | No. / |
| Saturation P (includes car | | res No | Depth (ir | icnes): | | _ wetta | ana nyarology r | Present? Yes | NO <u>v</u> |
| | corded Data (stre | am gauge, moni | toring well, aerial | photos, pr | evious ins | pections), i | if available: | | |
| | | | | | | | | | |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |

| Project/Site: Yellow Rose Bush | (| City/Count | y: Wasco C | ounty | Sam | pling Da | te: 2024-1 | 1-06 |
|--|-------------------|-------------|----------------------------|----------------------------------|-------------|--------------------|------------------|-------------|
| Applicant/Owner: Savion | | | | State: Orego | n Sam | pling Poi | nt: <u>UP-50</u> | 0 |
| Investigator(s): Edward Strohmaier, Lauren Stebbins | ; | Section, T | ownship, Ra | nge: sec 19 T005S I | R016E | | | |
| Landform (hillslope, terrace, etc.): Flat | | Local relie | ef (concave, | convex, none): Micro | otopograph | ny | Slope (%): | 0-2 |
| Subregion (LRR): LRR B, MLRA 8 | Lat: <u>45.1</u> | 25456 | | _ Long: <u>-120.85348</u> | 7 | C | atum: WG | S84 |
| | | | | NWI cla | | | | |
| Are climatic / hydrologic conditions on the site typical for | | | | | | | | |
| Are Vegetation, Soil, or Hydrology | significantly | disturbed? | Are ' | "Normal Circumstanc | es" preser | nt? Yes | ✓ N | 0 |
| Are Vegetation, Soil, or Hydrology | | | | eeded, explain any ar | | | | |
| SUMMARY OF FINDINGS – Attach site ma | | | | | | | | s, etc. |
| Hydrophytic Vegetation Present? Yes | No <u> </u> | lo 4 | ha Samplad | I Aroo | | | | |
| Hydric Soil Present? Yes | | | he Sampled hin a Wetlar | | | No . | / | |
| Wetland Hydrology Present? Yes | No <u>/</u> | Wit | iiii a weda | 103_ | | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| VEGETATION – Use scientific names of pl | ants. | | | | | | | |
| | Absolute | Dominan | nt Indicator | Dominance Test | worksheet | :: | | |
| Tree Stratum (Plot size: 30' radius) | | | ? Status | Number of Domina | | | | |
| 1 | | | | That Are OBL, FAC | CW, or FA | C: | 0 | (A) |
| 2 | | | | Total Number of D | | | 2 | (5) |
| 3 | | | | Species Across All | Strata: | | 2 | (B) |
| 4 | _ | = Total C | | Percent of Domina | | | 0.00 | (A /D) |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | - Total O | OVCI | That Are OBL, FAC | JVV, or FAC | υ: <u></u> | 0.00 | (A/B) |
| 1 | | | | Prevalence Index | | | | |
| 2 | | | | Total % Cover | | | Itiply by: | |
| 3 | | | | OBL species | | | | _ |
| 4 | | | | FACW species | | | | _ |
| 5 | | | | FAC species | | · - | | _ |
| Herb Stratum (Plot size: 5' radius) | | = Total C | over | FACU species UPL species | | x 4 = _ x 5 = _ | | _ |
| 1. Ventenata dubia | 55 | Y | <u>NI</u> | Column Totals: | | | | — (B) |
| Taeniatherum caput-medusae | 45 | Υ | NI | Column Fotals: | | . (//) _ | | _ (5) |
| 3. Bromus tectorum | 5 | N | <u>NI</u> | Prevalence I | | | | _ |
| 4 | | | | Hydrophytic Vege | | | | |
| 5 | | | | Dominance Te | | | | |
| 6 | | | | Prevalence Inc | | | .: | ut: |
| 7 | | | | Morphological data in Rer | | | | |
| 8 | | | | Problematic H | | | , | |
| Woody Vine Stratum (Plot size: 30' radius) | 105.0 | = Total C | over | | | | | |
| 1 | | | | ¹ Indicators of hydri | c soil and | wetland | hydrology r | must |
| 2 | | | | be present, unless | disturbed | or proble | ematic. | |
| | | = Total C | over | Hydrophytic | | | | |
| % Bare Ground in Herb Stratum % Co | over of Biotic Ci | rust | | Vegetation Present? | Yes | No | · / | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

SOIL Sampling Point: UP-500

| Profile Desc | cription: (Des | ribe to th | e depth n | eeded to docu | ment the i | ndicator | or confirn | n the absence of | indicators.) |
|---------------|--------------------------------------|------------|-------------|---------------------------------------|--------------|-----------------|------------------|----------------------------|---|
| Depth | Ma | | | | x Features | | . 2 | _ | |
| (inches) | Color (moi | | | Color (moist) | % | Type' | Loc ² | Texture | Remarks |
| 0-10 | 10YR 4 | /1 1 | 00 | | | | | SICL | |
| | | | | | _ | | | | |
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| | | | | | | | | | |
| 1Tupo: C-C | oncontration D | _Doplotion | DM-Por | duced Matrix, C | S-Covered | d or Coots | | roina ² l cooti | ion: PL=Pore Lining, M=Matrix. |
| | | | | Rs, unless othe | | | u Sanu G | | r Problematic Hydric Soils ³ : |
| Histosol | | pp | | Sandy Red | | · · · · · | | | ck (A9) (LRR C) |
| | pipedon (A2) | | | Stripped M | | | | | ck (A10) (LRR B) |
| - | istic (A3) | | | Loamy Mu | | l (F1) | | | Vertic (F18) |
| | en Sulfide (A4) | | | Loamy Gle | - | | | | ent Material (TF2) |
| | d Layers (A5) (I | RR C) | | Depleted M | - | ` ' | | | plain in Remarks) |
| | uck (A9) (LRR I | | | Redox Dar | , , | F6) | | ` | , |
| | d Below Dark S | | 1) | Depleted D | ark Surfac | e (F7) | | | |
| Thick Da | ark Surface (A1 | 2) | | Redox Dep | | - 8) | | ³ Indicators of | hydrophytic vegetation and |
| Sandy N | Mucky Mineral (| S1) | | Vernal Poo | ls (F9) | | | - | drology must be present, |
| | Gleyed Matrix (S | | | | | | | unless dist | urbed or problematic. |
| | Layer (if prese | nt): | | | | | | | |
| Type: Ro | | | | _ | | | | | |
| Depth (in | ches): <u>10</u> | | | _ | | | | Hydric Soil Pr | resent? Yes No |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| Wetland Hy | drology Indica | tors: | | | | | | | |
| | | | eauired: ch | eck all that app | lv) | | | Seconda | ary Indicators (2 or more required) |
| | Water (A1) | | | Salt Crust | | | | | er Marks (B1) (Riverine) |
| l | ater Table (A2) | | | Biotic Cru | , | | | | iment Deposits (B2) (Riverine) |
| Saturation | | | | Aquatic Ir | | e (B13) | | | Deposits (B3) (Riverine) |
| | on (∧o) ∕larks (B1) (No r | riverine) | | Hydrogen | | | | | nage Patterns (B10) |
| | nt Deposits (B2 | | rino) | | | , , | Livina Por | | Season Water Table (C2) |
| | posits (B3) (No | | 11116) | Presence | | _ | _ | | yfish Burrows (C8) |
| | Soil Cracks (B | , | | · · · · · · · · · · · · · · · · · · · | on Reduction | • | • | | uration Visible on Aerial Imagery (C9) |
| | ion Visible on A | | ory (B7) | | | | a oons (ot | · — | • • • • |
| | | - | θГУ (Б7) | Thin Mucl | , | , | | | llow Aquitard (D3) |
| | Stained Leaves | (Б9) | | Officer (Ex | plain in Re | marks) | | FAC | C-Neutral Test (D5) |
| Field Obser | | \/ | N. 1 - | / Denth Co | -1> | | | | |
| Surface Wat | | | | Depth (ir | | | | | |
| Water Table | | | | _✓ Depth (ir | | | | | |
| Saturation P | | Yes _ | No _ | _✓_ Depth (ir | iches): | | _ Wetl | and Hydrology P | Present? Yes No/ |
| | pillary fringe) corded Data (s | ream gau | ge, monito | ring well, aerial | photos, pr | evious ins | pections), | if available: | |
| | ` | | | | | | . ,. | | |
| Remarks: | | | | | | | | | |
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| Project/Site: Yellow Rose Bush | (| City/Count | ty: Wasco C | ounty | Sam | pling Da | te: 2024-1 | 1-06 |
|--|----------------|-------------|--------------|---|------------|----------------|-------------------|----------|
| Applicant/Owner: Savion | | | | State: Oregor | n Sam | pling Po | int: <u>UP-50</u> | 1 |
| Investigator(s): Edward Strohmaier, Lauren Stebbins | | Section, T | ownship, Ra | nge: <u>sec 18 T005S F</u> | R016E | | | |
| Landform (hillslope, terrace, etc.): Flat | | Local relie | ef (concave, | convex, none): None | | | Slope (%): | 0-2 |
| Subregion (LRR): LRR B, MLRA 8 | Lat: 45.1 | 130583 | | _ Long: <u>-120.850788</u> | 3 | | Datum: WG | SS84 |
| Soil Map Unit Name: Condon silt loam, 2 to 12 percent si | opes | | | NWI clas | sification | None | | |
| Are climatic / hydrologic conditions on the site typical for t | | | | | | | | |
| Are Vegetation, Soil, or Hydrology | - | | | 'Normal Circumstance | | | ✓ N | 0 |
| Are Vegetation, Soil, or Hydrology | | | | eeded, explain any an | | | | |
| SUMMARY OF FINDINGS – Attach site ma | | | | | | | | s, etc. |
| Hydrophytic Vegetation Present? Yes | No 🗸 | | | | | | | |
| Hydric Soil Present? Yes | | | the Sampled | | | Na | , | |
| Wetland Hydrology Present? Yes | | Wit | hin a Wetlar | na? res_ | | NO | <u>/</u> | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| VEGETATION – Use scientific names of pla | ints | | | | | | | |
| | Absolute | Dominar | nt Indicator | Dominance Test w | vorkshee | t: | | |
| Tree Stratum (Plot size: 30' radius) | | | ? Status | Number of Domina | | | | |
| 1 | | | | That Are OBL, FAC | W, or FA | C: | 0 | (A) |
| 2 | | | | Total Number of Do | | | | |
| 3 | | | | Species Across All | Strata: | | 3 | (B) |
| 4 | _ | = Total C | | Percent of Dominar | | | 0.00 | |
| Sapling/Shrub Stratum (Plot size: 15' radius) | | = Total C | ovei | That Are OBL, FAC | W, or FA | C: | 0.00 | (A/B) |
| 1 | | - | | Prevalence Index | workshe | et: | | |
| 2 | | - | | Total % Cover | | | ıltiply by: | |
| 3 | | | | OBL species | | | | _ |
| 4 | | | _ | FACW species | | | | _ |
| 5 | | T-1-10 | | FAC species FACU species | | x 3 = x 4 = | | _ |
| Herb Stratum (Plot size: 5' radius) | | = Total C | over | UPL species | | x 4 = x 5 = | | _ |
| 1. Ventenata dubia | 55 | Y | NI | Column Totals: | | | | — (B) |
| 2. Bromus tectorum | 20 | Y | NI | | | . , , | | _ ` ′ |
| 3. Thinopyrum intermedium | 20 | Y | NI | Prevalence In | | | | _ |
| 4. Taeniatherum caput-medusae | | N | <u>NI</u> | Hydrophytic Vege | | | | |
| 5 | | | | Dominance Te | | | | |
| 6 | | | | Prevalence Ind | | | vido ouppou | tina |
| 7 | | | _ | data in Rem | | | | |
| 8 | | = Total C | Cover | Problematic Hy | /drophytic | : Vegetat | tion¹ (Expla | in) |
| Woody Vine Stratum (Plot size: 30' radius) | 100.0 | = Total C | ovei | | | | | |
| 1 | | | | ¹ Indicators of hydrid be present, unless | | | | must |
| 2 | | | | be present, unless | aisturbea | or proble | ematic. | |
| | 0 | = Total C | over | Hydrophytic Vegetation | | | | |
| % Bare Ground in Herb Stratum % Cov | er of Biotic C | rust | | Present? | Yes | No | o <u> </u> | |
| Remarks: | | | | 1 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

SOIL Sampling Point: UP-501

| Profile Desc | cription: (Des | scribe to | the depth | needed to docu | ment the i | ndicator | or confirn | n the absence of | indicators.) |
|------------------------|-----------------------------------|-----------|------------|----------------------|--------------|-------------------|------------------|---------------------------------------|---|
| Depth | | atrix | | | ox Feature: | | | _ | |
| (inches) | Color (mo | | <u>%</u> _ | Color (moist) | % | Type ¹ | Loc ² | <u>Texture</u> | Remarks |
| 0-10 | 10YR | 4/2 | 100 | | | | | SICL _ | • |
| | | | | | | | | | |
| | | | | | | | | | |
| | | - | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| ¹ Type: C=C | oncentration. I | D=Deple | tion. RM=R | educed Matrix, C | S=Covered | d or Coate | d Sand G | rains. ² Locatio | on: PL=Pore Lining, M=Matrix. |
| | | | | RRs, unless other | | | | | r Problematic Hydric Soils ³ : |
| Histosol | | • • | | Sandy Red | | , | | | k (A9) (LRR C) |
| | pipedon (A2) | | | Stripped M | | | | · · · · · · · · · · · · · · · · · · · | k (A10) (LRR B) |
| - | istic (A3) | | | Loamy Mu | | l (F1) | | | Vertic (F18) |
| Hydroge | en Sulfide (A4) | | | Loamy Gle | yed Matrix | (F2) | | Red Pare | nt Material (TF2) |
| | d Layers (A5) | . , | | Depleted N | | | | Other (Ex | plain in Remarks) |
| | uck (A9) (LRR | | (8.4.4) | Redox Dar | | , | | | |
| - | d Below Dark | | A11) | Depleted D | | | | 3100-11-04-0- | hudron hutio vo satatiana a sat |
| | ark Surface (A ∕lucky Mineral | | | Redox Dep Vernal Poo | | -8) | | | hydrophytic vegetation and drology must be present, |
| - | Bleyed Matrix (| | | vernar roc | ns (F9) | | | | urbed or problematic. |
| | Layer (if pres | | | | | | | driicos dista | arbed of problematic. |
| Type: Ro | | ,- | | | | | | | |
| | ches): 10 | | | | | | | Hydric Soil Pro | esent? Yes No/_ |
| Remarks: | <u> </u> | | | | | | | 1, | |
| rtomano. | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | | -1 | | | | | | | |
| | drology Indic | | | | | | | | |
| | | ım of one | required; | check all that app | | | | | ry Indicators (2 or more required) |
| | Water (A1) | | | Salt Crus | ` ' | | | · | er Marks (B1) (Riverine) |
| | ater Table (A2) |) | | Biotic Cru | | | | | ment Deposits (B2) (Riverine) |
| Saturation | | | | Aquatic Ir | | | | | Deposits (B3) (Riverine) |
| | farks (B1) (No | | | Hydrogen | | | | | nage Patterns (B10) |
| | nt Deposits (B | | | | | _ | _ | | Season Water Table (C2) |
| l — | posits (B3) (No | | ie) | Presence | | • | • | - | rfish Burrows (C8) |
| | Soil Cracks (E | | · · (DZ) | | on Reducti | | a Solis (Ce | | ration Visible on Aerial Imagery (C9) |
| | on Visible on | | agery (B7) | Thin Mucl | , | | | | low Aquitard (D3) |
| | Stained Leaves | (B9) | | Other (Ex | plain in Re | marks) | | FAC | -Neutral Test (D5) |
| Field Obser | | ., | | | | | | | |
| Surface Wat | | | | Depth (ir | | | | | |
| Water Table | | | | Depth (ir | | | | | , |
| Saturation P | | Yes | No | Depth (ir | nches): | | Wetl | and Hydrology P | resent? Yes No/ |
| | pillary fringe) corded Data (s | stream n | auge. moni | toring well, aerial | photos. pr | evious ins | pections) | if available: | |
| B cooring rec | ooraoa Data (| ou oum g | aago, mom | torning won, donar | priotoo, pri | 011000 1110 | pooliono), | ii availabio. | |
| Remarks: | | | | | | | | | |
| remarks. | | | | | | | | | |
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| Wetlands and Other Waters Repor |
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| Supplemental Information |

Appendix B.

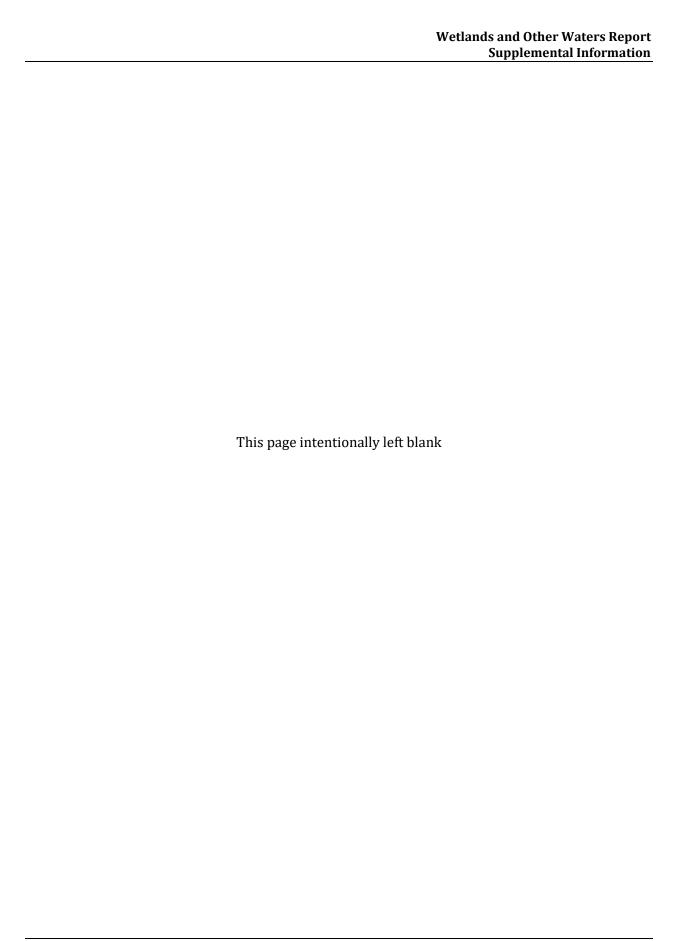




Photo Point 132.jpg, Date: 11/6/2024, Notes: Upland mound within vernal pool., Direction: NW



Photo Point 134.jpg, Date: 11/6/2024, Notes: Cheatgrass and intermediate wheat grass dominants. No hydrology indicators., Direction: NW



Photo Point 133.jpg, Date: 11/6/2024, Notes: No wetland indicators present., Direction: SE



Photo Point 135.jpg, Date: 11/6/2024, Notes: Wetland with berm to the north, vernal pool species present., Direction: E



Photo Point 136.jpg, Date: 11/6/2024, Notes: Dry pond with less than 5% vegetation., Direction: \ensuremath{W}



Photo Point 137.jpg, Date: 11/6/2024, Notes: Vernal pool within swale., Direction: W



Photo Point 138.jpg, Date: 11/6/2024, Notes: Small vernal pool, reference sample plots to the west., Direction: E



Photo Point 139.jpg, Date: 11/6/2024, Notes: Wetland with silty soils and vernal pool species., Direction: W