Corral Creek
Approvals for Site Stewardship Plan
Date first routed: December 11, 2018
Justin Takkunen Date Date 10 4 19 Signature Jonathan Soll Date 2 25 2020
Dan Moeller Signature

SITE STEWARDSHIP PLAN

Corral Creek Natural Area







November 2018



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CORRAL CREEK NATURAL AREA SITE INFORMATION

LOCATION

Address: 12410 SW Wilsonville Rd, Wilsonville, OR 97070

County: Clackamas

Number of acres: 32.40

Metro file no.: S 08.02

Table 1: Metro natural area bond purchased land for Corral Creek Natural Area

PROPERTY NAME	FILE NO.	BOND YEAR	DATE ACQUIRED	MANAGEMENT	ACRES	
Michel	08.011	1995	06/13/2001	Metro	11.27	
Richen and Stefan	08.006	1995	06/16/1997	Metro	22.05	

DIRECTIONS TO SITE

From Wankers Corner Field Station (2661 SW Borland Rd, Tualatin, OR 97062):

- Head south toward SW Borland Rd
- Turn left on SW Borland Rd
- At the traffic circle, take the first exit onto SW Stafford Rd
- Turn right to merge onto I-205 S toward Salem/I-5
- Merge onto I-205 S
- Take the I-5 S exit on the left toward Salem
- Merge onto I-5 S
- Take exit 283 toward Wilsonville
- Turn right onto SW Wilsonville Rd
- Turn left at 12410 SW Wilsonville Rd

See Map 1 for details.

SECTION 1: INTRODUCTION

1.1 CONTEXT

Corral Creek Natural Area is an approximately 32-acre property located near Wilsonville, Oregon just southwest of Metro's Graham Oaks Nature Park. The site is roughly bordered by Wilsonville Road to the west, farmland to the north, low density housing developments to the south and east and is approximately 150 feet (one tax lot) away from bordering the Willamette River. Corral Creek Natural Area is part of the Tonquin Geological target area and borders the urban growth boundary at its southeast corner. Corral Creek falls within the Clackamas County rural reserve south and is zoned as Exclusive Farm Use (EFU).

Corral Creek Natural Area consists of two properties purchased under the 1995 Open Spaces Bond Measure. The Richen/Stefan property is a 22-acre parcel acquired in 1997 and the Michel property is an 11-acre parcel acquired in 2001. These acquisitions contributed to the 1995 Acquisition program goals of preserving riparian buffers in the Mill/Corral Creek floodplain, creating a Tonquin Greenway connecting the Willamette River to the Tualatin River Wildlife Refuge and linking the Tonquin Geological Area with the Willamette River Greenway. See Map 2.

1.2 SITE STEWARDSHIP PLAN GOALS AND USES

Site Stewardship Plans (SSPs) and Site Conservation Plans (SCPs) are sister documents. SCPs document conservation targets, desired future conditions, and key threats, providing a long-term vision for the site for internal and external audiences. Though rarely fully updated, SCPs are periodically revised to document strategic implementation and reflect on lessons learned through adaptive management. SCPs provide guidance for short- and long-term stewardship actions that the Natural Areas Land Management Team will take to reduce threats and increase conservation target health.

SSPs provide a five to ten-year outlook for ongoing care of a site, shaping a vision of options and costs to facilitate thoughtful decisions using available resources. SSPs are primarily an internal working document and address vegetation management, such as invasive species control, and infrastructure maintenance for items such as fences, gates, and water control structures. SSPs are updated periodically as key restoration or access and development projects are implemented.

This SSP provides information necessary to:

- Protect natural resources supporting wildlife habitat and water quality.
- Define key actions that help achieve desired future conditions of conservation targets.
- Define key actions required to maintain infrastructure.
- Provide cost estimates for actions.
- Prioritize actions and document implementation.

The major stewardship issues of concern at Corral Creek Natural Area include:

• Invasive species management.

SECTION 2: CONSERVATION TARGETS AND DESIRED FUTURE CONDITIONS

2.1 MAJOR HABITAT TYPES

Historically, the area around Corral Creek Natural Area was mapped primarily as woodland and closed upland forest. Currently, Corral Creek Natural Area can be characterized by natural habitat types such as upland and riparian mixed forest. (Table 2; Map 3). More detailed descriptions are available in the SCP.

Table 2: Major habitat types at Corral Creek Natural Area

ΗΑΒΙΤΑΤ ΤΥΡΕ	ACRES
Agricultural	0.25
Upland forest – mixed	17.4
Riparian forest – mixed	14.75

2.2 CONSERVATION TARGETS

Conservation targets are composed of a suite of species, communities and ecological systems that represent and encompass the full array of native biodiversity of the site, reflect local and regional conservation goals and are viable or at least feasibly restorable. Using onsite natural habitat types and regional conservation planning efforts as guides, conservation targets were selected that encompass the site's biodiversity values and regional conservation targets. The targets at Corral Creek Natural Area are:

- Riparian forest
- Upland forest
- Native fish

Appendix A summarizes the conservation targets, key ecological attributes, threats and strategic short- and long-term stewardship actions that can help address threats to these conservation targets. For more information, see the Site Conservation Plan.

It is important to prioritize restoration and stewardship activities for several reasons. Budgetary or time constraints are likely to limit how much work can be accomplished at a given site. Specific actions may rise to the top due to the scarce or unique nature of a habitat type or because abating a certain threat now will save time and money in the future. The SCP prioritizes conservation targets while Appendix B of this SSP assigns priority rankings to key actions; this does not mean that the other actions are not important, simply that they are not the most important actions within the next five to ten years.

2.3 SPECIAL OR SENSITIVE HABITAT

The lower reach of Corral Creek is identified by the Oregon Department of Fish and Wildlife (ODFW) as rearing habitat for spring Chinook salmon (*Oncorhynchus tshawytscha*). Upper Willamette Chinook salmon are listed as "threatened" under the endangered species act by the National Marine Fisheries Service. Cutthroat trout (*Oncorhynchus clarkia*) were observed during a 2001 biological inventory. Coastal cutthroat trout in the Lower Willamette hydrologic unit are on the ODFW sensitive species list.

SECTION 3: STEWARDSHIP ACTIONS

Stewardship actions are broken up into five primary stewardship categories: site monitoring, vegetation management, access and infrastructure, water resources, and wildlife habitat as described below. Terramet includes the full list of stewardship categories, actions and tasks. Appendix B-1 describes strategic stewardship actions for each category needed over the next five to ten years, and Appendix B-2 provides a budget for these actions, as well as additional actions that may be warranted given sufficient time or funds.

3.1 SITE MONITORING

Monitoring at the Corral Creek Natural Area is an integral part of an adaptive management approach to restoration and stewardship. Based on the monitoring plan developed by Metro, a feedback loop is created between monitoring and management decisions. Monitoring will be done to evaluate habitat, population responses to management action, as well as progress toward achieving habitat and population objectives.

Key monitoring actions at Corral Creek Natural Area may include:

- Regular site walks to identify issues such as hunting, illegal dumping, illegal access and inappropriate public use/access.
- Regular site walks to identify issues regarding infrastructure and property boundaries.

3.2 VEGETATION MANAGEMENT

Key vegetation management actions for the next five to ten years at Corral Creek Natural Area relate primarily to:

- Invasive weed control of priority invasive species.
- Maintaining tree and shrub planting until they are free to grow.

Many of these actions span multiple habitat areas and conservation targets.

Metro has initiated an early detection and rapid response (EDRR) program for certain invasive species. These EDRR species will be controlled by hand pulling or herbicide application as they are detected in the natural area. Other invasive plant species will be controlled as part of restoration projects or ongoing management of habitat areas. See Appendix C for a list of invasive species.

3.3 ACCESS AND INFRASTRUCTURE

Infrastructure generally includes human constructs such as maintenance roads, gates, fences, culverts, and signs. This category of stewardship actions may also include inventory property encroachments or surveying property lines. See Map 4 for spatial information on access and infrastructure at Corral Creek Natural Area.

Key access and infrastructure actions at Corral Creek Natural Area are:

- Install, maintain and monitor natural area rule signage.
- Maintain cable gate as needed.

3.4 WATER RESOURCES

Water resources stewardship actions are generally defined as maintenance of infrastructure associated with streams, rivers or wetlands at the site. Examples include maintenance of large wood structures, water control structures, or other water resource related actions and tasks.

There are no relevant key water resources actions at Corral Creek Natural Area.

3.5 WILDLIFE HABITAT

Wildlife habitat structures are specific features installed to improve wildlife habitat. Examples include nest boxes, turtle logs or platforms, beaver exclusion fencing and other associated wildlife related actions and tasks.

• Monitor and ensure that quality wildlife values are being maintained.

SECTION 4: COORDINATION

This Site Stewardship Plan outlines strategic development and restoration actions to be carried out at Corral Creek Natural Area over the next five to ten years. These actions include natural resource, access, and infrastructure improvements that require implementation plans and communications between Land Management and Science staff about long term stewardship costs. Implementation of these actions will have impacts to future stewardship and management of the site. This section is intended to identify actions that need additional coordination.

Actions that require coordination

• Volunteer events will require communication and coordination between the land management and volunteer coordinators.

Current and potential partners

- Clackamas Soil and Water Conservation District
- City of Wilsonville

SECTION 5: VOLUNTEERS AND COMMUNITY ENGAGEMENT

The primary goal of the volunteer program is to provide a variety of high-quality, meaningful volunteer opportunities that add value and capacity to Metro's work. Through these opportunities, community members are able to learn about and enjoy Corral Creek Natural Area, work alongside fellow community members, learn new skills or polish existing ones, and gain the satisfaction of contributing to the long-term health and livability of their communities.

For Corral Creek Natural Area, strategic volunteer opportunities may include:

- Group restoration projects e.g., invasive weed removal and/or removal of tree tubes.
- Invasive weed monitoring.

SECTION 6: SITE MANAGEMENT

Metro's management of Corral Creek Natural Area includes enforcement of the posted rules to provide protection for wildlife, water quality, and to protect the safety and enjoyment of any person visiting these facilities. The following sections describe key elements to management of the site.

6.1 FIRE INCIDENT ACTION PLAN

A fire incident action plan has been developed for this site (Appendix D, Map 5).

6.2 PUBLIC ACCESS

Corral Creek Natural Area is defined as a low access natural area. Current access by neighbors or local residents is permitted but not encouraged. There is no formal access and the site appears to have little to no public use. Current access from the right-of-way to the natural area consists of shoulder parking with access into the site through a cable gate. From the cable gate, an old skid road leads into the site. This road converts to a faint game trail which bisects the property and eventually take you onto a private property to the north. It does not seem like the trail receives much, if any, human usage. Due to the steep slopes and private property conflicts, access to the Willamette River is impossible at this time. Additionally, there are no views of the river from the natural area and there is no indication that the river is nearby.

6.3 SPECIAL USE PERMITS

Special use permits (SUPs) are required for certain regulated and non-traditional uses of Metro's parks and natural areas to ensure public health and safety and to protect natural resources, properties and facilities.¹

Current and historical SUPs for this site can be found in Terramet in the Site Documents section of the Corral Creek Natural Area Docs & Agreements page or on the M drive (M:\PN\Teams\Visitor Services\SUP). Some typically recurring SUPs for this site are:

• Clackamas County – use of property for foot access and de-watering hoses for purposes of scour/erosion mitigation work on the Wilsonville Road Bridge crossing Corral Creek.

6.4 DEED RESTRICTIONS, EASEMENTS AND OTHER SITE AGREEMENTS

The acquisition of a property under the Natural Area Program may sometimes include deed restrictions that place limitations on the use of the land. Deed restrictions can include restrictions on tree cutting, establish landscaping requirements, or establish road maintenance fees. Acquisitions may also include easements that entitle the holder to certain uses or rights on the property. Easements can include utility easements, easements of access, and conservation easements. Metro may enter into other voluntary agreements including intergovernmental agreements (IGAs) with other agencies and management agreements with non-governmental organizations.

¹ More information regarding policies, guidelines, and applications can be found at <u>www.oregonmetro.gov/specialuse</u>.

Existing deed restrictions, easements and other site agreements include:

Michel (File #08.011)

- Forest deferral.
- Rights of fishing, navigation, commerce, flood control, propagation of anadromous fish, recreation and other rights of the public, Indian tribes or government bodies in and to the waters of the Willamette River and Corral Creek.
- Any adverse claims based on the assertion that a portion of the property was created by artificial means and or has accreted to portions so created. ORS 274.905-274.940.
- 1946 deed which reserves "the right to travel over the road now leading to river tracts, said road to be maintained by said owners of river tracts on a community basis" also the Willis, s/a reserve the right to maintain a drainage ditch through the property and to enter upon the land at any time to repair and maintain said drain.
- 1994 easement for road purposes for joint and mutual benefit of Laue & Drew properties.

Richen and Stefan (File #08.006)

- Farm land deferral.
- Adverse claims related to fill and accretion, and avulsive movements of Corral Creek.

For more detailed information on any of the above agreements, please refer to the Terramet acquisition pages or the legal acquisition hard copy files for the properties that make up this site (Michel – 08.011, Richen and Stefan – 08.006).

6.5 RESIDENTIAL OR AGRICULTURAL LEASE AGREEMENTS

Some Metro Natural Areas include a residence or multiple residences on the site. If and when it is decided to rent out a residence, a rental agreement is developed by Metro. This agreement describes the lease terms, any rental restrictions, and acceptable uses of the lease area. In some cases the lease area is delineated on the ground by installation of markers such as carsonite posts, t-posts, or fencing. Some standard lease terms include a month to month term, pet restrictions, no hunting, and no commercial activities.

Metro may enter into agricultural lease agreements when the acquisition comes with an existing agricultural lease, farming fulfills management goals, or the preservation of available agricultural land and historic farming practices is desired. The agricultural lease delineates the boundaries of the farmed area and can include specific requirements including crop planted, herbicides used, and equipment used.

Corral Creek Natural Area does not have any existing residential or agricultural lease agreements.

MAPS

- Map 1 Vicinity
- Map 2 Site
- Map 3 Current Cover
- Map 4 Site Infrastructure
- Map 5 Fire Incident Action Plan

APPENDICES

- Appendix A Summary of Conservation Target KEA, Threats, Goals
- Appendix B Stewardship Actions
 - B-1 Summary of Stewardship Actions
 - B-2 Budget for Stewardship Actions
- Appendix C Invasive species
- Appendix D Incident Action Plan

(Kangel) (K Vicinity map Metro SW Tooze Rd SW 145th Ave Coffee Lake Creek Wetlands Coffee Lo SW Westfall Rd SW Baker Rd SW Boeckman Rd SW Boones Ferry Rd St. Levery. Rd --Graham Oaks Nature Park SW Bell Rd SW Wilsonville Rd Willamette River **Corral Creek** Natural Area -C. CLACKAMAS CO. NE Boones Ferry Rd NE Butteville Rd Rd Graham NE Airport Rd JN MARION CO. **Corral Creek Natural Area Other Metro sites** Hillsboro Portland Cornelius Beavertor Greshan avertor Parks and/or Natural Areas Portla Oregor Citv 0 0.2 0.8 Miles 0.4 0.6

Corral Creek Natural Area

Site Stewardship Plan

Site map





Streams





Corral Creek Natural Area

Imagery in color is a Metro Site Metro Parks & Nature - map date: 10/29/2018 Current cover map





 g_{ij}



Upland forest - mixed

Featured site

Corral Creek Natural Area

0.1 Miles

0.025 0.05 0.075

0

Site Stewardship Plan 🙀

Site infrastructure map

Metro



ATV only

0	0.025	0.05	0.075	0.1 Miles
		1		

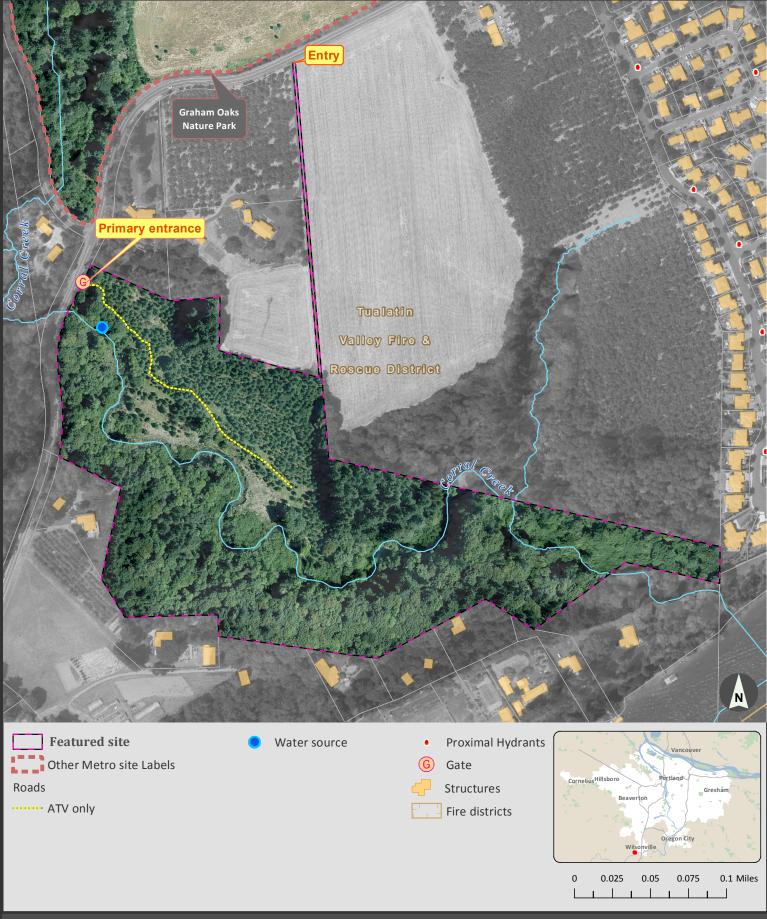
Corral Creek Natural Area

Imagery in color is a Metro Site Metro Parks & Nature - map date: 11/7/2018

Fire Incident Action Plan

primary entrance: approx 12410 SW Wilsonville Rd, Wilsonville, OR 97070





Corral Creek Natural Area

lat/long for primary entrance: ((45.29335434, -122.80417026))

Metro Parks & Nature - map date: 11/7/2018

APPENDIX A

CORRAL CREEK NATURAL AREA

Conservation Target Summary Table for Corral Creek Natural Area - summary of conservation target key ecological attributes (KEAs), significant threats, and strategic restoration actions. The priority assignment refers to the habitat(s) in most immediate need of attention.

CONSERVATION TARGET	KEY ECOLOGICAL ATTRIBUTES (KEAs)	SIGNIFICANT THREATS	STRATEGIC RESTORATION AND STEWARDSHIP ACTIONS & PRIORITY RANK
Riparian forest	 Riparian forest width Vegetative structure: tree layer Native tree and shrub richness Floodwater access to the floodplain 	 Invasive species Development/land conversion Previous forest management Increased severity and flashiness of flows in storm events Less resilience in plan community to respond to climatic changes 	 High priority Re-vegetate section of floodplain dominated by reed canarygrass and blackberry. Medium priority Explore acquisition opportunities to connect Corral Creek Natural Area with Graham Oaks Nature Work with partners to retain and improve forest habitat in other ownership.
Upland forest	 Forested habitat patch size Native tree and shrub richness Vegetative structure: native tree and shrub layer Standing and downed dead trees Edge condition 	 Invasive species Development/land conversion Previous forest management Less resilience in plant community to respond to climatic changes 	 High priority Improve forest understory health by controlling ivy and weedy trees and planting native trees a Medium priority Explore acquisition opportunities to connect Corral Creek Natural Area with Graham Oaks Natu Enhance forest complexity by snag and downed wood creation where appropriate. Work with partners to retain and improve forest habitat in other ownership.
Native fish	 Key pieces and number of pieces of large wood in wetted areas of the stream and adjacent stream bank 	 Development/land conversion Previous forest management Habitat simplification and continued stream degradation with flashier flows and change in flow timing 	 High priority Improve spring Chinook rearing habitat at Corral Creek: Add additional large wood to the stream channel and stream banks. Enhance connection of stream to floodplain by re-grading stream banks or implementin construction of beaver dam analogues. Enhance riparian vegetation in degraded areas.

ature Park and/or Willamette River.

es and shrubs.

ature Park and/or the Willamette River.

ting strategies to aggrade the stream bed, such as the

APPENDIX B-1

CORRAL CREEK NATURAL AREA SUMMARY OF STEWARDSHIP ACTIONS

Stewardship actions planned for the next five to ten years at Corral Creek Natural Area.

(Estimated costs and potential additional actions that could take place, depending on time and resources, are in Appendix B-2)

PROJECT TYPE	DESCRIPTION	TIMING/FREQUENCY	COMPLETED BY						
	SITE MONITORING								
Other monitoring – site walk	Regular site walks to identify issues such as hunting, illegal dumping, illegal access and inappropriate public use/access.	Ongoing	Natural Resource Technician						
Other monitoring – site walk	Regular site walks to identify issues regarding infrastructure and property boundaries.	Ongoing	Natural Resource Technician						
	VEGETATION MANAGEMENT								
Invasive weed control	Invasive weed control of priority invasive species.	Ongoing	Natural Resource Technician						
Planting – tree and shrub	Maintain plantings until they are free to grow.	Ongoing	Natural Resource Technician						
	ACCESS AND INFRASTRUCTURE								
Signage	Install, maintain and monitor natural area rule signage.	Once	Natural Resource Technician						
Gate	Maintain cable gate as needed.	As needed	Natural Resource Technician						
	WATER RESOURCES								
N/A	N/A	N/A	N/A						
	WILDLIFE HABITAT								
N/A	N/A	N/A	N/A						

APPENDIX B-2

CORRAL CREEK NATURAL AREA BUDGET TABLE

10-year budget for stewardship actions

UNIT/AREA	MAINTENANCE CATEGORY PRC	PROJECT TYPE DESCRIPTION OF TASKS	HABITAT TYPE OR TIMING/ CONSERVATION TARGET FREQUENCY	PRIORITY	COST BY FISCAL YEAR											
							FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28
Site wide	Vegetation management	Invasive weed control	Invasive weed control of priority invasive species.	Riparian and upland forest	Annually	High	\$0	\$2,800	\$0	\$2,800	\$0	\$0	\$3,000	\$0	\$3,000	\$0
Totals							\$0	\$2,800	\$0	\$2,800	\$0	\$0	\$3,000	\$0	\$3,000	\$0

APPENDIX C

CORRAL CREEK NATURAL AREA INVASIVE SPECIES

The table below summarizes a preliminary list of invasive plants in all or parts of Corral Creek Natural Area, including focus areas and timing for control if needed. The list is compiled from the data collected during the 2014 weed mapping project, and reviewed and updated by the Natural Areas Land Management team. A list of noxious weeds for Oregon, including descriptions and photos, can be found at: www.oregon.gov/ODA/PLANT/WEEDS/statelist2.shtml.

GENUS	SPECIES	COMMON NAME	FOCUS AREA FOR DETECTION/CONTROL	CONTROL TIMING
Ajuga	reptans	Bugleweed	All	Spring
Arum	italicum	Lords and ladies	All	Spring
Carex	pendula	Drooping sedge	Riparian forest	Spring
Cirsium	arvense	Canada thistle	Forest	Spring
Conium	maculatum	Poison hemlock	All	Spring
Crataegus	sp.	Hawthorn	Forest	Fall/Winter
Geranium	lucidum	Shining geranium	All	Spring
Geranium	robertianum	Herb Robert geranium	All	Spring/Fall
Hedera	sp.	lvy	All	Winter
llex	aquifolium	English holly	All	Winter
Iris	pseudacorus	Yellow-flag iris	Riparian	Fall
Phalaris	arundinacea	Reed canarygrass	Riparian forest	Spring/Fall
Prunus	avium	Sweet cherry	Forest	Fall/Winter
Prunus	laurocerasus	English laurel	Forest	Fall/Winter
Rubus	bifrons	Himalayan blackberry	All	Fall
Senecio	jacobaea	Tansy ragwort	All	Spring/Fall
Vinca	major	Periwinkle	All	Fall/Winter

Working list of priority non-native species at Corral Creek Natural Area (EDRR species are bolded in red)



Incident Action Plan

APPENDIX D

CORRAL CREEK NATURAL AREA

Address/access points

Address:

• 12400 SW Wilsonville Rd., Wilsonville, OR 97070

Primary access (unimproved dirt road):

- 12400 SW Wilsonville Rd., Wilsonville, OR 97070
- Longitude: -122.803363; Latitude: 45.29224
- Gate cable gate with Metro A lock; no Knox box or fire district lock

Secondary access (undeveloped flag driveway and access easement):

- 12340 SW Wilsonville Rd., Wilsonville, OR 97070
- Longitude: -122.801752; Latitude: 45.293942
- No gate

Location

Primary and secondary access:

• TS3-R1W SECT22

Acreage

32.40 acres

Structures

There are no structures on the site.

Water sources and staging areas

Water can be sourced from Corral Creek on western portion of the property. Avoid the lower reach of the creek due to the below identified sensitive habitat.

Sensitive habitat

The lower reach of Corral Creek is identified by ODFW as rearing habitat for spring Chinook salmon. Chinook salmon are listed as threatened under the Endangered Species Act. Cutthroat trout were observed during a 2001 biological inventory and are on the ODFW sensitive species list.

Contact information*

Metro Conservation Program

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Yuxing Zheng, Communications Coordinator	971-344-2207 (cell)
Sheriff/police department	
Emergency	911
Police Dept, non-emergency	503-682-1012
Local fire department Tualatin Valley Fire and Rescue District #52	503-649-8577

*Please see Terramet for most up to date contact information.